

Planetary Phenomena of Uranus from -3400 through -2900 (UT), Astrodienst AG 14-Nov-2015 16:04, page 1

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

opposition	-3400 Mar 14 j 20:04	27°♄17'33	0°52'40	conjunction	-3393 Oct 20 j 04:28	0°♁55'30	0°34'31
min. Earth dist.	-3400 Mar 15 j 02:44	27°♄16'51	17.65002 AU	minimum elong	-3393 Oct 20 j 04:28	0°♁55'30	0°34'30
direct	-3400 May 31 j 04:03	25°♄13'32		max. Earth dist.	-3393 Oct 20 j 15:54	0°♁57'14	20.12068 AU
				retrograde	-3392 Feb 04 j 19:40	5°♁06'32	
conjunction	-3400 Sep 18 j 18:07	29°♄36'47	0°46'55	opposition	-3392 Apr 21 j 07:41	3°♁06'39	0°36'52
minimum elong	-3400 Sep 18 j 18:07	29°♄36'48	0°46'59	min. Earth dist.	-3392 Apr 20 j 20:13	3°♁07'49	18.15513 AU
max. Earth dist.	-3400 Sep 18 j 12:22	29°♄35'54	19.67631 AU	direct	-3392 Jul 07 j 08:37	1°♁05'54	
	-3400 Sep 24 j 22:42	0°♄					
retrograde	-3399 Jan 03 j 17:31	3°♄53'16		conjunction	-3392 Oct 23 j 16:29	5°♁16'55	0°31'52
opposition	-3399 Mar 19 j 20:26	1°♄52'33	0°51'42	minimum elong	-3392 Oct 23 j 16:30	5°♁16'55	0°31'52
min. Earth dist.	-3399 Mar 19 j 23:54	1°♄52'11	17.70351 AU	max. Earth dist.	-3392 Oct 24 j 04:43	5°♁18'47	20.18967 AU
	-3399 May 15 j 04:22	30°♄♁		retrograde	-3391 Feb 08 j 12:04	9°♁27'12	
direct	-3399 Jun 05 j 06:15	29°♄48'50		opposition	-3391 Apr 26 j 03:03	7°♁27'26	0°33'49
	-3399 Jun 25 j 22:15	0°♄		min. Earth dist.	-3391 Apr 25 j 13:20	7°♁28'50	18.22387 AU
				direct	-3391 Jul 12 j 03:18	5°♁27'07	
conjunction	-3399 Sep 23 j 12:00	4°♄10'39	0°45'54	conjunction	-3391 Oct 28 j 03:59	9°♁36'37	0°29'03
minimum elong	-3399 Sep 23 j 12:00	4°♄10'39	0°45'58	minimum elong	-3391 Oct 28 j 03:59	9°♁36'37	0°29'01
max. Earth dist.	-3399 Sep 23 j 09:09	4°♄10'12	19.73143 AU	max. Earth dist.	-3391 Oct 28 j 18:59	9°♁38'53	20.25781 AU
retrograde	-3398 Jan 08 j 11:25	8°♄26'20		retrograde	-3390 Feb 13 j 02:31	13°♁46'08	
opposition	-3398 Mar 24 j 20:33	6°♄25'40	0°50'24	opposition	-3390 Apr 30 j 21:58	11°♁46'28	0°30'35
min. Earth dist.	-3398 Mar 24 j 22:42	6°♄25'26	17.76032 AU	min. Earth dist.	-3390 Apr 30 j 07:06	11°♁47'59	18.29132 AU
direct	-3398 Jun 10 j 05:14	4°♄22'17		direct	-3390 Jul 16 j 20:31	9°♁46'34	
conjunction	-3398 Sep 28 j 04:47	8°♄42'35	0°44'37	conjunction	-3390 Nov 01 j 14:31	13°♁54'32	0°26'06
minimum elong	-3398 Sep 28 j 04:47	8°♄42'35	0°44'39	minimum elong	-3390 Nov 01 j 14:31	13°♁54'32	0°26'05
max. Earth dist.	-3398 Sep 28 j 03:48	8°♄42'26	19.78997 AU	max. Earth dist.	-3390 Nov 02 j 06:02	13°♁56'52	20.32449 AU
retrograde	-3397 Jan 13 j 06:43	12°♄57'29		retrograde	-3389 Feb 17 j 17:09	18°♁03'19	
opposition	-3397 Mar 29 j 19:55	10°♄56'54	0°48'48	opposition	-3389 May 05 j 16:08	16°♁03'43	0°27'13
min. Earth dist.	-3397 Mar 29 j 18:33	10°♄57'03	17.82046 AU	min. Earth dist.	-3389 May 04 j 23:23	16°♁05'24	18.35716 AU
direct	-3397 Jun 15 j 05:18	8°♄53'54		direct	-3389 Jul 21 j 13:28	14°♁04'10	
conjunction	-3397 Oct 02 j 20:53	13°♄12'40	0°43'04	conjunction	-3389 Nov 06 j 00:38	18°♁10'38	0°23'00
minimum elong	-3397 Oct 02 j 20:53	13°♄12'40	0°43'07	minimum elong	-3389 Nov 06 j 00:38	18°♁10'38	0°22'59
max. Earth dist.	-3397 Oct 02 j 23:08	13°♄13'01	19.85170 AU	max. Earth dist.	-3389 Nov 06 j 18:44	18°♁13'21	20.38927 AU
retrograde	-3396 Jan 17 j 23:40	17°♄26'47		retrograde	-3388 Feb 22 j 06:24	22°♁18'40	
opposition	-3396 Apr 02 j 18:49	15°♄26'19	0°46'55	opposition	-3388 May 09 j 09:25	20°♁19'06	0°23'43
min. Earth dist.	-3396 Apr 02 j 16:01	15°♄26'36	17.88372 AU	min. Earth dist.	-3388 May 08 j 15:29	20°♁20'55	18.42085 AU
direct	-3396 Jun 19 j 02:02	13°♄23'44		direct	-3388 Jul 25 j 05:39	18°♁19'54	
conjunction	-3396 Oct 06 j 11:52	17°♄40'58	0°41'16	conjunction	-3388 Nov 09 j 09:51	22°♁24'53	0°19'49
minimum elong	-3396 Oct 06 j 11:53	17°♄40'58	0°41'17	minimum elong	-3388 Nov 09 j 09:51	22°♁24'53	0°19'47
max. Earth dist.	-3396 Oct 06 j 15:42	17°♄41'33	19.91641 AU	max. Earth dist.	-3388 Nov 10 j 04:16	22°♁27'38	20.45191 AU
retrograde	-3395 Jan 21 j 18:22	21°♄54'18		retrograde	-3387 Feb 25 j 18:51	26°♁32'12	
opposition	-3395 Apr 07 j 16:53	19°♄53'58	0°44'46	min. Earth dist.	-3387 May 13 j 06:30	24°♁34'35	18.48247 AU
min. Earth dist.	-3395 Apr 07 j 10:47	19°♄54'35	17.94957 AU	opposition	-3387 May 14 j 01:54	24°♁32'38	0°20'07
direct	-3395 Jun 23 j 23:44	17°♄51'49		direct	-3387 Jul 29 j 20:19	22°♁33'42	
conjunction	-3395 Oct 11 j 02:15	22°♄07'31	0°39'14	conjunction	-3387 Nov 13 j 18:29	26°♁37'16	0°16'33
minimum elong	-3395 Oct 11 j 02:15	22°♄07'31	0°39'15	minimum elong	-3387 Nov 13 j 18:29	26°♁37'16	0°16'30
max. Earth dist.	-3395 Oct 11 j 09:19	22°♄08'36	19.98324 AU	max. Earth dist.	-3387 Nov 14 j 15:28	26°♁40'24	20.51239 AU
retrograde	-3394 Jan 26 j 10:17	26°♄20'04			-3386 Jan 19 j 05:25	0°♄	
opposition	-3394 Apr 12 j 14:24	24°♄19'54	0°42'21	retrograde	-3386 Mar 02 j 06:43	0°♄43'52	
min. Earth dist.	-3394 Apr 12 j 07:02	24°♄20'39	18.01720 AU		-3386 Apr 14 j 20:00	30°♄♁	
direct	-3394 Jun 28 j 18:40	22°♄18'13		opposition	-3386 May 18 j 17:32	28°♁44'18	0°16'27
				min. Earth dist.	-3386 May 17 j 20:45	28°♁46'24	18.54193 AU
conjunction	-3394 Oct 15 j 15:42	26°♄32'21	0°36'58	direct	-3386 Aug 03 j 11:05	26°♁45'40	
minimum elong	-3394 Oct 15 j 15:42	26°♄32'21	0°36'59		-3386 Nov 04 j 14:44	0°♄	
max. Earth dist.	-3394 Oct 15 j 23:59	26°♄33'37	20.05163 AU				
	-3394 Dec 20 j 21:19	0°♁					
retrograde	-3393 Jan 31 j 04:16	0°♁44'09		conjunction	-3386 Nov 18 j 02:22	0°♄47'50	0°13'13
	-3393 Mar 15 j 02:08	30°♄♄		minimum elong	-3386 Nov 18 j 02:21	0°♄47'50	0°13'09
opposition	-3393 Apr 17 j 11:19	28°♄44'07	0°39'43	behind sun begin	-3386 Nov 17 j 22:22	0°♄47'15	
min. Earth dist.	-3393 Apr 17 j 01:04	28°♄45'10	18.08605 AU	behind sun end	-3386 Nov 18 j 06:21	0°♄48'24	
direct	-3393 Jul 03 j 14:49	26°♄42'55		max. Earth dist.	-3386 Nov 18 j 23:45	0°♄51'00	20.57099 AU
	-3393 Oct 04 j 22:17	0°♁		retrograde	-3385 Mar 06 j 17:47	4°♄53'46	

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Attention, astronomical year style is used: The year -3385 in astronomical counting style is the year 3386 BCE in historical counting style.

min. Earth dist.	-3385 May 22 j 10:23	2°M.56'24	18.59982 AU	conjunction	-3379 Dec 15 j 22:08	29°M.22'50	0°-10'-35
opposition	-3385 May 23 j 08:28	2°M.54'11	0°12'43	minimum elong	-3379 Dec 15 j 22:08	29°M.22'50	0°10'43
direct	-3385 Aug 07 j 23:18	0°M.55'48		behind sun begin	-3379 Dec 15 j 17:03	29°M.22'07	
				behind sun end	-3379 Dec 16 j 03:13	29°M.23'33	
conjunction	-3385 Nov 22 j 09:48	4°M.56'40	0°09'51	max. Earth dist.	-3379 Dec 17 j 03:40	29°M.27'07	20.92484 AU
minimum elong	-3385 Nov 22 j 09:48	4°M.56'40	0°09'47		-3379 Dec 26 j 15:00	0°Z	
behind sun begin	-3385 Nov 22 j 04:24	4°M.55'53		retrograde	-3378 Apr 04 j 15:25	3°Z25'32	
behind sun end	-3385 Nov 22 j 15:11	4°M.57'26		opposition	-3378 Jun 21 j 21:06	1°Z26'23	0°-13'-31
max. Earth dist.	-3385 Nov 23 j 09:43	5°M.00'12	20.62797 AU	min. Earth dist.	-3378 Jun 20 j 16:48	1°Z29'13	18.94453 AU
retrograde	-3384 Mar 10 j 04:33	9°M.01'58			-3378 Aug 01 j 10:42	30°RM	
opposition	-3384 May 26 j 22:32	7°M.02'24	0°08'57	direct	-3378 Sep 05 j 19:38	29°M.29'58	
min. Earth dist.	-3384 May 25 j 22:54	7°M.04'46	18.65597 AU		-3378 Oct 10 j 03:07	0°Z	
direct	-3384 Aug 11 j 12:11	5°M.04'18					
				conjunction	-3378 Dec 20 j 03:30	3°Z24'06	0°-13'-51
conjunction	-3384 Nov 25 j 16:39	9°M.03'56	0°06'28	minimum elong	-3378 Dec 20 j 03:30	3°Z24'06	0°13'58
minimum elong	-3384 Nov 25 j 16:39	9°M.03'56	0°06'22	behind sun begin	-3378 Dec 20 j 00:04	3°Z23'37	
behind sun begin	-3384 Nov 25 j 10:29	9°M.03'03		behind sun end	-3378 Dec 20 j 06:56	3°Z24'35	
behind sun end	-3384 Nov 25 j 22:50	9°M.04'49		max. Earth dist.	-3378 Dec 21 j 08:16	3°Z28'15	20.96240 AU
max. Earth dist.	-3384 Nov 26 j 16:49	9°M.07'30	20.68328 AU	retrograde	-3377 Apr 09 j 00:19	7°Z26'33	
retrograde	-3383 Mar 14 j 15:03	13°M.08'40		min. Earth dist.	-3377 Jun 25 j 03:29	5°Z30'12	18.97983 AU
min. Earth dist.	-3383 May 30 j 11:15	11°M.11'35	18.71053 AU	opposition	-3377 Jun 26 j 07:02	5°Z27'27	0°-17'-6
opposition	-3383 May 31 j 11:47	11°M.09'08	0°05'10	direct	-3377 Sep 10 j 01:19	3°Z31'12	
direct	-3383 Aug 15 j 22:19	9°M.11'19					
				conjunction	-3377 Dec 24 j 08:58	7°Z24'44	0°-17'-3
conjunction	-3383 Nov 29 j 23:13	13°M.09'49	0°03'03	minimum elong	-3377 Dec 24 j 08:58	7°Z24'44	0°17'11
minimum elong	-3383 Nov 29 j 23:14	13°M.09'49	0°02'59	max. Earth dist.	-3377 Dec 25 j 14:40	7°Z29'01	20.99511 AU
behind sun begin	-3383 Nov 29 j 16:43	13°M.08'54		retrograde	-3376 Apr 12 j 09:25	11°Z26'57	
behind sun end	-3383 Nov 30 j 05:44	13°M.10'45		opposition	-3376 Jun 29 j 16:22	9°Z27'52	0°-20'-35
max. Earth dist.	-3383 Dec 01 j 01:38	13°M.13'42	20.73687 AU	min. Earth dist.	-3376 Jun 28 j 12:20	9°Z30'40	19.00984 AU
	-3382 Jan 01 j 08:35	15°M.		direct	-3376 Sep 13 j 09:38	7°Z31'46	
retrograde	-3382 Mar 19 j 00:59	17°M.14'02					
min. Earth dist.	-3382 Jun 03 j 22:24	15°M.17'10	18.76307 AU	conjunction	-3376 Dec 27 j 14:13	11°Z24'44	0°-20'-9
opposition	-3382 Jun 05 j 00:27	15°M.14'34	0°01'22	minimum elong	-3376 Dec 27 j 14:13	11°Z24'44	0°20'17
	-3382 Jun 11 j 02:07	15°RM		max. Earth dist.	-3376 Dec 28 j 18:41	11°Z28'50	21.02240 AU
direct	-3382 Aug 20 j 09:23	13°M.17'03		retrograde	-3375 Apr 16 j 17:35	15°Z26'46	
desc. node	-3382 Oct 16 j 20:53	14°M.38'23		min. Earth dist.	-3375 Jul 02 j 22:23	13°Z30'21	19.03449 AU
	-3382 Oct 24 j 15:01	15°M.		opposition	-3375 Jul 04 j 01:16	13°Z27'40	0°-23'-58
				direct	-3375 Sep 17 j 14:53	11°Z31'39	
conjunction	-3382 Dec 04 j 05:10	17°M.14'30	0°00'-27				
minimum elong	-3382 Dec 04 j 05:09	17°M.14'30	0°00'33	conjunction	-3375 Dec 31 j 19:33	15°Z24'08	0°-23'-9
behind sun begin	-3382 Dec 03 j 22:38	17°M.13'34		minimum elong	-3375 Dec 31 j 19:33	15°Z24'08	0°23'17
behind sun end	-3382 Dec 04 j 11:40	17°M.15'26		max. Earth dist.	-3374 Jan 02 j 00:42	15°Z28'19	21.04437 AU
max. Earth dist.	-3382 Dec 05 j 07:39	17°M.18'23	20.78831 AU	retrograde	-3374 Apr 21 j 02:17	19°Z25'59	
retrograde	-3381 Mar 23 j 11:17	21°M.18'16		min. Earth dist.	-3374 Jul 07 j 06:21	17°Z29'34	19.05378 AU
min. Earth dist.	-3381 Jun 08 j 10:05	19°M.21'31	18.81339 AU	opposition	-3374 Jul 08 j 09:40	17°Z26'51	0°-27'-13
opposition	-3381 Jun 09 j 12:36	19°M.18'52	0°-2'-24	direct	-3374 Sep 21 j 22:05	15°Z30'53	
direct	-3381 Aug 24 j 17:58	17°M.21'38					
				conjunction	-3373 Jan 05 j 00:36	19°Z22'56	0°-26'-1
conjunction	-3381 Dec 08 j 11:07	21°M.18'08	0°-3'-54	minimum elong	-3373 Jan 05 j 00:36	19°Z22'56	0°26'10
minimum elong	-3381 Dec 08 j 11:06	21°M.18'08	0°04'00	max. Earth dist.	-3373 Jan 06 j 04:31	19°Z26'56	21.06116 AU
behind sun begin	-3381 Dec 08 j 04:39	21°M.17'13		retrograde	-3373 Apr 25 j 10:12	23°Z24'41	
behind sun end	-3381 Dec 08 j 17:34	21°M.19'03		opposition	-3373 Jul 12 j 17:45	21°Z25'27	0°-30'-19
max. Earth dist.	-3381 Dec 09 j 15:31	21°M.22'17	20.83721 AU	min. Earth dist.	-3373 Jul 11 j 15:42	21°Z28'03	19.06822 AU
retrograde	-3380 Mar 26 j 20:40	25°M.21'29		direct	-3373 Sep 26 j 03:10	19°Z29'28	
opposition	-3380 Jun 12 j 23:51	23°M.22'11	0°-6'-9				
min. Earth dist.	-3380 Jun 11 j 20:13	23°M.24'57	18.86074 AU	conjunction	-3372 Jan 09 j 05:57	23°Z21'13	0°-28'-46
direct	-3380 Aug 28 j 03:40	21°M.25'15		minimum elong	-3372 Jan 09 j 05:57	23°Z21'13	0°28'54
				max. Earth dist.	-3372 Jan 10 j 10:28	23°Z25'18	21.07329 AU
conjunction	-3380 Dec 11 j 16:41	25°M.20'52	0°-7'-16	retrograde	-3372 Apr 28 j 18:29	27°Z22'51	
minimum elong	-3380 Dec 11 j 16:41	25°M.20'52	0°07'23	min. Earth dist.	-3372 Jul 14 j 22:37	25°Z26'11	19.07811 AU
behind sun begin	-3380 Dec 11 j 10:41	25°M.20'01		opposition	-3372 Jul 16 j 01:03	25°Z23'32	0°-33'-16
behind sun end	-3380 Dec 11 j 22:41	25°M.21'43		direct	-3372 Sep 29 j 09:10	23°Z27'33	
max. Earth dist.	-3380 Dec 12 j 20:44	25°M.24'57	20.88289 AU				
retrograde	-3379 Mar 31 j 06:15	29°M.23'53		conjunction	-3371 Jan 12 j 11:08	27°Z19'04	0°-31'-22
min. Earth dist.	-3379 Jun 16 j 07:20	27°M.27'24	18.90472 AU	minimum elong	-3371 Jan 12 j 11:08	27°Z19'04	0°31'30
opposition	-3379 Jun 17 j 10:47	27°M.24'39	0°-9'-52	max. Earth dist.	-3371 Jan 13 j 14:20	27°Z22'57	21.08108 AU
direct	-3379 Sep 01 j 10:38	25°M.27'59			-3371 Mar 04 j 18:57	0°Z	

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Attention, astronomical year style is used: The year -3371 in astronomical counting style is the year 3372 BCE in historical counting style.

retrograde	-3371 May 03 j 02:11	1°☾20'41		retrograde	-3363 Jun 05 j 00:10	3°☾09'49	
	-3371 Jul 03 j 23:10	30°☾23'48	19.08400 AU	opposition	-3363 Aug 21 j 11:39	1°☾10'01	0°-51'-19
min. Earth dist.	-3371 Jul 19 j 07:10	29°☾21'17	0°-36'-3	min. Earth dist.	-3363 Aug 20 j 19:17	1°☾11'41	18.98597 AU
opposition	-3371 Jul 20 j 08:17	27°☾25'16			-3363 Sep 21 j 03:30	30°☾R☾	
direct	-3371 Oct 03 j 13:38	0°☾		direct	-3363 Nov 04 j 02:55	29°☾13'21	
	-3371 Dec 24 j 22:13				-3363 Dec 17 j 02:01	0°☾	
conjunction	-3370 Jan 16 j 16:28	1°☾16'38	0°-33'-48	conjunction	-3362 Feb 18 j 00:50	3°☾07'18	0°-46'-50
minimum elong	-3370 Jan 16 j 16:28	1°☾16'38	0°33'56	minimum elong	-3362 Feb 18 j 00:50	3°☾07'18	0°46'58
max. Earth dist.	-3370 Jan 17 j 20:16	1°☾20'36	21.08503 AU	max. Earth dist.	-3362 Feb 18 j 19:08	3°☾09'55	20.96932 AU
retrograde	-3370 May 07 j 10:53	5°☾18'18		retrograde	-3362 Jun 09 j 10:39	7°☾11'21	
opposition	-3370 Jul 24 j 15:06	3°☾18'49	0°-38'-40	opposition	-3362 Aug 25 j 18:06	5°☾11'26	0°-52'-12
min. Earth dist.	-3370 Jul 23 j 13:33	3°☾21'24	19.08603 AU	min. Earth dist.	-3362 Aug 25 j 02:29	5°☾13'02	18.95191 AU
direct	-3370 Oct 07 j 19:13	1°☾22'46		direct	-3362 Nov 08 j 09:37	3°☾14'32	
conjunction	-3369 Jan 20 j 22:01	5°☾14'07	0°-36'-5	conjunction	-3361 Feb 22 j 10:15	7°☾09'11	0°-47'-31
minimum elong	-3369 Jan 20 j 22:01	5°☾14'07	0°36'14	minimum elong	-3361 Feb 22 j 10:15	7°☾09'11	0°47'37
max. Earth dist.	-3369 Jan 22 j 00:21	5°☾17'52	21.08520 AU	max. Earth dist.	-3361 Feb 23 j 01:43	7°☾11'24	20.93267 AU
retrograde	-3369 May 11 j 18:18	9°☾15'53		retrograde	-3361 Jun 13 j 19:57	11°☾13'43	
opposition	-3369 Jul 28 j 21:44	7°☾16'20	0°-41'-6	min. Earth dist.	-3361 Aug 29 j 11:53	9°☾14'58	18.91275 AU
min. Earth dist.	-3369 Jul 27 j 21:46	7°☾18'45	19.08443 AU	opposition	-3361 Aug 30 j 00:41	9°☾13'40	0°-52'-49
direct	-3369 Oct 11 j 23:01	5°☾20'14		direct	-3361 Nov 12 j 14:22	7°☾16'29	
conjunction	-3368 Jan 25 j 04:01	9°☾11'40	0°-38'-12	conjunction	-3360 Feb 26 j 20:24	11°☾11'56	0°-47'-57
minimum elong	-3368 Jan 25 j 04:01	9°☾11'40	0°38'20	minimum elong	-3360 Feb 26 j 20:24	11°☾11'56	0°48'04
max. Earth dist.	-3368 Jan 26 j 06:36	9°☾15'27	21.08174 AU	max. Earth dist.	-3360 Feb 27 j 10:39	11°☾13'58	20.89125 AU
retrograde	-3368 May 15 j 03:58	13°☾13'35			-3360 May 21 j 21:09	15°☾	
min. Earth dist.	-3368 Jul 31 j 03:59	11°☾16'26	19.07898 AU	retrograde	-3360 Jun 17 j 06:41	15°☾16'58	
opposition	-3368 Aug 01 j 04:05	11°☾14'00	0°-43'-20		-3360 Jul 13 j 18:38	15°☾R☾	
direct	-3368 Oct 15 j 04:33	9°☾17'52		opposition	-3360 Sep 02 j 07:18	13°☾16'45	0°-53'-11
conjunction	-3367 Jan 28 j 10:06	13°☾09'28	0°-40'-9	min. Earth dist.	-3360 Sep 01 j 19:15	13°☾17'59	18.86903 AU
minimum elong	-3367 Jan 28 j 10:06	13°☾09'28	0°40'17	direct	-3360 Nov 15 j 21:17	11°☾19'16	
max. Earth dist.	-3367 Jan 29 j 10:58	13°☾13'01	21.07433 AU		-3359 Feb 25 j 18:01	15°☾	
retrograde	-3367 May 19 j 11:09	17°☾11'37		conjunction	-3359 Mar 02 j 06:47	15°☾15'34	0°-48'-9
opposition	-3367 Aug 05 j 10:29	15°☾12'00	0°-45'-22	minimum elong	-3359 Mar 02 j 06:47	15°☾15'34	0°48'15
min. Earth dist.	-3367 Aug 04 j 12:16	15°☾14'15	19.06961 AU	max. Earth dist.	-3359 Mar 02 j 18:26	15°☾17'14	20.84551 AU
direct	-3367 Oct 19 j 07:50	13°☾15'49		retrograde	-3359 Jun 21 j 16:14	19°☾21'10	
conjunction	-3366 Feb 01 j 16:49	17°☾07'42	0°-41'-54	opposition	-3359 Sep 06 j 14:14	17°☾20'46	0°-53'-16
minimum elong	-3366 Feb 01 j 16:49	17°☾07'42	0°42'02	min. Earth dist.	-3359 Sep 06 j 04:51	17°☾21'45	18.82148 AU
max. Earth dist.	-3366 Feb 02 j 17:38	17°☾11'14	21.06297 AU	direct	-3359 Nov 20 j 03:08	15°☾22'58	
retrograde	-3366 May 23 j 21:23	21°☾10'08		conjunction	-3358 Mar 06 j 18:03	19°☾20'12	0°-48'-6
opposition	-3366 Aug 09 j 16:40	19°☾10'29	0°-47'-12	minimum elong	-3358 Mar 06 j 18:04	19°☾20'12	0°48'12
min. Earth dist.	-3366 Aug 08 j 18:39	19°☾12'43	19.05603 AU	max. Earth dist.	-3358 Mar 07 j 04:35	19°☾21'43	20.79640 AU
direct	-3366 Oct 23 j 13:38	17°☾14'13		retrograde	-3358 Jun 26 j 03:35	23°☾26'24	
conjunction	-3365 Feb 05 j 23:53	21°☾06'29	0°-43'-27	opposition	-3358 Sep 10 j 21:08	21°☾25'50	0°-53'-6
minimum elong	-3365 Feb 05 j 23:53	21°☾06'29	0°43'35	min. Earth dist.	-3358 Sep 10 j 12:26	21°☾26'44	18.77081 AU
max. Earth dist.	-3365 Feb 06 j 22:33	21°☾09'43	21.04715 AU	direct	-3358 Nov 24 j 10:37	19°☾27'41	
retrograde	-3365 May 28 j 05:12	25°☾09'16		conjunction	-3357 Mar 11 j 05:55	23°☾25'57	0°-47'-49
opposition	-3365 Aug 13 j 23:02	23°☾09'35	0°-48'-48	minimum elong	-3357 Mar 11 j 05:55	23°☾25'57	0°47'55
min. Earth dist.	-3365 Aug 13 j 03:24	23°☾11'35	19.03785 AU	max. Earth dist.	-3357 Mar 11 j 13:54	23°☾27'05	20.74434 AU
direct	-3365 Oct 27 j 16:51	21°☾13'14		retrograde	-3357 Jun 30 j 13:43	27°☾32'46	
conjunction	-3364 Feb 10 j 07:45	25°☾05'59	0°-44'-48	opposition	-3357 Sep 15 j 04:33	25°☾32'03	0°-52'-39
minimum elong	-3364 Feb 10 j 07:45	25°☾05'59	0°44'56	min. Earth dist.	-3357 Sep 14 j 22:29	25°☾32'41	18.71753 AU
max. Earth dist.	-3364 Feb 11 j 05:44	25°☾09'07	21.02651 AU	direct	-3357 Nov 28 j 17:03	23°☾33'33	
retrograde	-3364 May 31 j 15:28	29°☾09'08		conjunction	-3356 Mar 14 j 18:34	27°☾32'56	0°-47'-17
min. Earth dist.	-3364 Aug 16 j 10:08	27°☾11'21	19.01458 AU	minimum elong	-3356 Mar 14 j 18:34	27°☾32'56	0°47'21
opposition	-3364 Aug 17 j 05:08	27°☾09'25	0°-50'-11	max. Earth dist.	-3356 Mar 15 j 01:15	27°☾33'53	20.68999 AU
direct	-3364 Oct 30 j 23:09	25°☾12'55			-3356 Apr 29 j 05:19	0°☾	
conjunction	-3363 Feb 13 j 15:59	29°☾06'14	0°-45'-56	retrograde	-3356 Jul 04 j 02:07	1°☾40'25	
minimum elong	-3363 Feb 13 j 15:59	29°☾06'14	0°46'02		-3356 Sep 10 j 07:23	30°☾R☾	
max. Earth dist.	-3363 Feb 14 j 11:19	29°☾08'59	21.00058 AU	opposition	-3356 Sep 18 j 12:01	29°☾39'33	0°-51'-56
	-3363 Mar 01 j 12:12	0°☾		min. Earth dist.	-3356 Sep 18 j 06:37	29°☾40'07	18.66212 AU
				direct	-3356 Dec 02 j 01:43	27°☾40'43	

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Attention, astronomical year style is used: The year -3355 in astronomical counting style is the year 3356 BCE in historical counting style.

	-3355 Feb 17 j 05:30	0°♄		direct	-3347 Jan 04 j 13:34	1°♃38'34	
conjunction	-3355 Mar 19 j 07:50	1°♄41'17	0°-46'-30	conjunction	-3347 Apr 24 j 02:09	5°♃50'38	0°-31'-31
minimum elong	-3355 Mar 19 j 07:50	1°♄41'17	0°46'35	minimum elong	-3347 Apr 24 j 02:09	5°♃50'38	0°31'31
max. Earth dist.	-3355 Mar 19 j 12:06	1°♄41'54	20.63366 AU	max. Earth dist.	-3347 Apr 23 j 12:32	5°♃48'37	20.12542 AU
retrograde	-3355 Jul 08 j 12:58	5°♄49'30		retrograde	-3347 Aug 12 j 13:55	10°♃05'13	
opposition	-3355 Sep 22 j 20:10	3°♄48'31	0°-50'-57	opposition	-3347 Oct 26 j 08:35	8°♃03'25	0°-33'-24
min. Earth dist.	-3355 Sep 22 j 17:21	3°♄48'49	18.60501 AU	min. Earth dist.	-3347 Oct 26 j 21:07	8°♃02'05	18.09064 AU
direct	-3355 Dec 06 j 08:27	1°♄49'21		direct	-3346 Jan 09 j 02:26	6°♃01'16	
conjunction	-3354 Mar 23 j 21:55	5°♄51'10	0°-45'-28	conjunction	-3346 Apr 28 j 23:11	10°♃14'51	0°-28'-38
minimum elong	-3354 Mar 23 j 21:55	5°♄51'10	0°45'32	minimum elong	-3346 Apr 28 j 23:11	10°♃14'51	0°28'37
max. Earth dist.	-3354 Mar 24 j 00:43	5°♄51'34	20.57589 AU	max. Earth dist.	-3346 Apr 28 j 06:47	10°♃12'25	20.05602 AU
retrograde	-3354 Jul 13 j 03:02	10°♄00'09		retrograde	-3346 Aug 17 j 08:31	14°♃30'13	
opposition	-3354 Sep 27 j 04:36	7°♄59'04	0°-49'-41	opposition	-3346 Oct 30 j 21:56	12°♃28'15	0°-30'-6
min. Earth dist.	-3354 Sep 27 j 02:32	7°♄59'17	18.54640 AU	min. Earth dist.	-3346 Oct 31 j 11:36	12°♃26'47	18.02130 AU
direct	-3354 Dec 10 j 18:28	5°♄59'34		direct	-3345 Jan 13 j 18:41	10°♃25'38	
conjunction	-3353 Mar 28 j 12:59	10°♄02'44	0°-44'-12	conjunction	-3345 May 03 j 21:08	14°♃40'47	0°-25'-34
minimum elong	-3353 Mar 28 j 12:59	10°♄02'44	0°44'16	minimum elong	-3345 May 03 j 21:09	14°♃40'47	0°25'33
max. Earth dist.	-3353 Mar 28 j 13:19	10°♄02'47	20.51653 AU	max. Earth dist.	-3345 May 03 j 03:24	14°♃38'08	19.98684 AU
retrograde	-3353 Jul 17 j 15:06	14°♄12'29		retrograde	-3345 Aug 22 j 01:32	18°♃56'53	
opposition	-3353 Oct 01 j 13:36	12°♄11'20	0°-48'-9	opposition	-3345 Nov 04 j 12:00	16°♃54'47	0°-26'-37
min. Earth dist.	-3353 Oct 01 j 14:21	12°♄11'15	18.48630 AU	min. Earth dist.	-3345 Nov 05 j 03:52	16°♃53'04	17.95263 AU
direct	-3353 Dec 15 j 02:24	10°♄11'31		direct	-3344 Jan 18 j 09:21	14°♃51'43	
conjunction	-3352 Apr 01 j 04:58	14°♄16'05	0°-42'-41	conjunction	-3344 May 07 j 19:37	19°♃08'24	0°-22'-20
minimum elong	-3352 Apr 01 j 04:58	14°♄16'05	0°42'44	minimum elong	-3344 May 07 j 19:37	19°♃08'24	0°22'18
max. Earth dist.	-3352 Apr 01 j 03:22	14°♄15'51	20.45576 AU	max. Earth dist.	-3344 May 06 j 23:14	19°♃05'21	19.91895 AU
retrograde	-3352 Jul 21 j 06:35	18°♄26'39		retrograde	-3344 Aug 25 j 21:02	23°♃25'16	
opposition	-3352 Oct 04 j 23:07	16°♄25'25	0°-46'-21	opposition	-3344 Nov 08 j 02:47	21°♃23'02	0°-22'-56
min. Earth dist.	-3352 Oct 05 j 00:51	16°♄25'14	18.42467 AU	min. Earth dist.	-3344 Nov 08 j 19:36	21°♃21'12	17.88569 AU
direct	-3352 Dec 18 j 13:28	14°♄25'17		direct	-3343 Jan 22 j 03:05	19°♃19'32	
conjunction	-3351 Apr 05 j 21:41	18°♄31'18	0°-40'-55	conjunction	-3343 May 12 j 18:46	23°♃37'46	0°-18'-56
minimum elong	-3351 Apr 05 j 21:41	18°♄31'18	0°40'57	minimum elong	-3343 May 12 j 18:46	23°♃37'46	0°18'55
max. Earth dist.	-3351 Apr 05 j 17:41	18°♄30'43	20.39319 AU	max. Earth dist.	-3343 May 11 j 21:47	23°♃34'36	19.85294 AU
retrograde	-3351 Jul 25 j 20:28	22°♄42'41		retrograde	-3343 Aug 30 j 15:12	27°♃55'20	
opposition	-3351 Oct 09 j 09:26	20°♄41'24	0°-44'-16	opposition	-3343 Nov 12 j 18:23	25°♃53'01	0°-19'-6
min. Earth dist.	-3351 Oct 09 j 14:05	20°♄40'54	18.36122 AU	min. Earth dist.	-3343 Nov 13 j 12:51	25°♃51'00	17.82094 AU
direct	-3351 Dec 22 j 23:06	18°♄40'54		direct	-3342 Jan 26 j 19:38	23°♃49'07	
conjunction	-3350 Apr 10 j 15:31	22°♄48'24	0°-38'-54	conjunction	-3342 May 17 j 18:37	28°♃08'52	0°-15'-25
minimum elong	-3350 Apr 10 j 15:31	22°♄48'24	0°38'57	minimum elong	-3342 May 17 j 18:37	28°♃08'52	0°15'23
max. Earth dist.	-3350 Apr 10 j 09:04	22°♄47'27	20.32888 AU	behind sun begin	-3342 May 17 j 17:09	28°♃08'39	
retrograde	-3350 Jul 30 j 13:07	27°♄00'37		behind sun end	-3342 May 17 j 20:04	28°♃09'05	
opposition	-3350 Oct 13 j 20:09	24°♄59'13	0°-41'-56	max. Earth dist.	-3342 May 16 j 19:06	28°♃05'19	19.78963 AU
min. Earth dist.	-3350 Oct 14 j 02:01	24°♄58'36	18.29591 AU		-3342 Jun 18 j 07:33	0°♄	
direct	-3350 Dec 27 j 11:44	22°♄58'21		retrograde	-3342 Sep 04 j 11:32	2°♄27'10	
conjunction	-3349 Apr 15 j 10:19	27°♄07'22	0°-36'-40	opposition	-3342 Nov 17 j 10:35	0°♄24'46	0°-15'-7
minimum elong	-3349 Apr 15 j 10:20	27°♄07'22	0°36'41	min. Earth dist.	-3342 Nov 18 j 06:01	0°♄22'39	17.75923 AU
max. Earth dist.	-3349 Apr 15 j 01:23	27°♄06'03	20.26253 AU		-3342 Nov 26 j 23:46	30°♃♃	
retrograde	-3349 Jun 07 j 22:26	0°♃		direct	-3341 Jan 31 j 14:46	28°♃20'30	
	-3349 Aug 04 j 04:17	1°♃20'23			-3341 Apr 05 j 01:57	0°♄	
opposition	-3349 Oct 01 j 22:10	30°♃♄		conjunction	-3341 May 22 j 19:19	2°♄41'47	0°-11'-47
min. Earth dist.	-3349 Oct 18 j 07:45	29°♄18'52	0°-39'-20	minimum elong	-3341 May 22 j 19:20	2°♄41'47	0°11'44
direct	-3349 Dec 31 j 23:01	27°♄17'36	18.22867 AU	behind sun begin	-3341 May 22 j 14:39	2°♄41'06	
	-3348 Mar 24 j 21:04	0°♃		behind sun end	-3341 May 23 j 00:00	2°♄42'29	
conjunction	-3348 Apr 19 j 05:48	1°♃28'07	0°-34'-12	max. Earth dist.	-3341 May 21 j 19:36	2°♄38'12	19.72947 AU
minimum elong	-3348 Apr 19 j 05:48	1°♃28'07	0°34'13	retrograde	-3341 Sep 09 j 07:06	7°♄00'46	
max. Earth dist.	-3348 Apr 18 j 18:07	1°♃26'24	20.19457 AU	opposition	-3341 Nov 22 j 03:46	4°♄58'21	0°-11'-1
retrograde	-3348 Aug 07 j 21:58	5°♃41'56		min. Earth dist.	-3341 Nov 23 j 00:20	4°♄56'06	17.70080 AU
opposition	-3348 Oct 21 j 19:49	3°♃40'17	0°-36'-29	direct	-3340 Feb 05 j 09:42	2°♄53'47	
min. Earth dist.	-3348 Oct 22 j 05:45	3°♃39'13	18.16005 AU	conjunction	-3340 May 26 j 20:18	7°♄16'32	0°-8'-3
				minimum elong	-3340 May 26 j 20:18	7°♄16'32	0°08'01

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Attention, astronomical year style is used: The year -3340 in astronomical counting style is the year 3341 BCE in historical counting style.

behind sun begin	-3340 May 26 j 14:17	7°♄15'38		minimum elong	-3334 Jun 25 j 14:14	5°♄20'31	0°15'16
behind sun end	-3340 May 27 j 02:20	7°♄17'26		behind sun begin	-3334 Jun 25 j 12:24	5°♄20'14	
max. Earth dist.	-3340 May 25 j 18:18	7°♄12'34	19.67290 AU	behind sun end	-3334 Jun 25 j 16:04	5°♄20'48	
retrograde	-3340 Sep 13 j 03:56	11°♄36'13		retrograde	-3334 Oct 11 j 19:56	9°♄43'02	
opposition	-3340 Nov 25 j 21:42	9°♄33'47	0°-6'-49	opposition	-3334 Dec 24 j 02:10	7°♄40'50	0°18'56
min. Earth dist.	-3340 Nov 26 j 19:15	9°♄31'26	17.64618 AU	min. Earth dist.	-3334 Dec 25 j 04:51	7°♄37'55	17.39207 AU
direct	-3339 Feb 09 j 06:13	7°♄28'58		direct	-3333 Mar 10 j 02:41	5°♄34'41	
				max. Earth dist.	-3333 Jun 29 j 11:21	10°♄00'42	19.37658 AU
conjunction	-3339 May 31 j 22:10	11°♄53'09	0°-4'-16				
minimum elong	-3339 May 31 j 22:11	11°♄53'09	0°04'12	conjunction	-3333 Jun 30 j 18:11	10°♄05'31	0°18'52
behind sun begin	-3339 May 31 j 15:30	11°♄52'09		minimum elong	-3333 Jun 30 j 18:11	10°♄05'31	0°18'58
behind sun end	-3339 Jun 01 j 04:52	11°♄54'09		retrograde	-3333 Oct 16 j 20:39	14°♄28'14	
max. Earth dist.	-3339 May 30 j 20:17	11°♄49'12	19.62005 AU	opposition	-3333 Dec 29 j 01:23	12°♄26'02	0°23'00
	-3339 Jul 27 j 04:09	15°♄		min. Earth dist.	-3333 Dec 30 j 03:17	12°♄23'12	17.36298 AU
retrograde	-3339 Sep 18 j 01:13	16°♄13'27		direct	-3332 Mar 14 j 04:58	10°♄19'43	
	-3339 Nov 11 j 11:02	15°♄					
opposition	-3339 Nov 30 j 16:20	14°♄11'04	0°-2'-32	conjunction	-3332 Jul 04 j 21:56	14°♄51'12	0°22'27
min. Earth dist.	-3339 Dec 01 j 14:45	14°♄08'37	17.59513 AU	minimum elong	-3332 Jul 04 j 21:56	14°♄51'12	0°22'34
direct	-3338 Feb 14 j 03:42	12°♄06'01		max. Earth dist.	-3332 Jul 03 j 15:13	14°♄46'24	19.34981 AU
	-3338 May 11 j 16:41	15°♄		retrograde	-3332 Oct 20 j 19:43	19°♄14'04	
max. Earth dist.	-3338 Jun 04 j 20:25	16°♄27'16	19.57078 AU	opposition	-3331 Jan 02 j 01:13	17°♄11'51	0°26'56
				min. Earth dist.	-3331 Jan 03 j 04:02	17°♄08'55	17.33882 AU
conjunction	-3338 Jun 06 j 00:34	16°♄31'35	0°00'-20	direct	-3331 Mar 19 j 06:39	15°♄05'21	
minimum elong	-3338 Jun 06 j 00:33	16°♄31'35	0°00'16	max. Earth dist.	-3331 Jul 08 j 19:05	19°♄32'33	19.32831 AU
behind sun begin	-3338 Jun 05 j 17:49	16°♄30'35					
behind sun end	-3338 Jun 06 j 07:17	16°♄32'35		conjunction	-3331 Jul 10 j 01:37	19°♄37'21	0°25'53
asc. node	-3338 Jul 08 j 02:24	18°♄26'18		minimum elong	-3331 Jul 10 j 01:37	19°♄37'21	0°26'00
retrograde	-3338 Sep 22 j 22:51	20°♄52'29		retrograde	-3331 Oct 25 j 20:11	24°♄00'15	
opposition	-3338 Dec 05 j 11:58	18°♄50'09	0°01'47	opposition	-3330 Jan 07 j 01:16	21°♄58'02	0°30'40
min. Earth dist.	-3338 Dec 06 j 11:42	18°♄47'34	17.54769 AU	min. Earth dist.	-3330 Jan 08 j 02:48	21°♄55'15	17.32004 AU
direct	-3337 Feb 19 j 01:51	16°♄44'52		direct	-3330 Mar 24 j 10:28	19°♄51'25	
max. Earth dist.	-3337 Jun 09 j 23:28	21°♄07'24	19.52492 AU	max. Earth dist.	-3330 Jul 13 j 23:53	24°♄19'10	19.31236 AU
conjunction	-3337 Jun 11 j 03:32	21°♄11'44	0°03'38	conjunction	-3330 Jul 15 j 05:16	24°♄23'47	0°29'09
minimum elong	-3337 Jun 11 j 03:31	21°♄11'44	0°03'44	minimum elong	-3330 Jul 15 j 05:16	24°♄23'47	0°29'15
behind sun begin	-3337 Jun 10 j 20:49	21°♄10'43		retrograde	-3330 Oct 30 j 19:01	28°♄46'40	
behind sun end	-3337 Jun 11 j 10:14	21°♄12'44		opposition	-3329 Jan 12 j 02:06	26°♄44'28	0°34'12
retrograde	-3337 Sep 27 j 21:57	25°♄33'08		min. Earth dist.	-3329 Jan 13 j 04:03	26°♄41'38	17.30718 AU
opposition	-3337 Dec 10 j 08:23	23°♄30'52	0°06'07	direct	-3329 Mar 29 j 13:26	24°♄37'46	
min. Earth dist.	-3337 Dec 11 j 08:32	23°♄28'13	17.50347 AU	max. Earth dist.	-3329 Jul 19 j 03:20	29°♄05'47	19.30267 AU
direct	-3336 Feb 24 j 01:39	21°♄25'22					
max. Earth dist.	-3336 Jun 14 j 00:56	25°♄48'47	19.48235 AU	conjunction	-3329 Jul 20 j 08:22	29°♄10'21	0°32'12
				minimum elong	-3329 Jul 20 j 08:22	29°♄10'21	0°32'20
conjunction	-3336 Jun 15 j 06:48	25°♄53'24	0°07'31				
minimum elong	-3336 Jun 15 j 06:48	25°♄53'24	0°07'37	retrograde	-3329 Aug 02 j 12:48	0°♄	
behind sun begin	-3336 Jun 15 j 00:40	25°♄52'29		-3329 Nov 04 j 19:16	3°♄33'10		
behind sun end	-3336 Jun 15 j 12:55	25°♄54'19		opposition	-3328 Jan 17 j 03:12	1°♄31'00	0°37'30
	-3336 Sep 08 j 12:25	0°♄		min. Earth dist.	-3328 Jan 18 j 03:17	1°♄28'23	17.30074 AU
retrograde	-3336 Oct 01 j 20:24	0°♄15'16					
	-3336 Oct 25 j 11:58	30°♄		direct	-3328 Feb 25 j 02:12	30°♄	
opposition	-3336 Dec 14 j 05:39	28°♄13'01	0°10'27	-3328 Apr 02 j 18:11	29°♄24'17		
min. Earth dist.	-3336 Dec 15 j 07:10	28°♄10'14	17.46276 AU	-3328 May 09 j 18:50	0°♄		
direct	-3335 Feb 28 j 00:57	26°♄07'18		max. Earth dist.	-3328 Jul 23 j 08:28	3°♄52'43	19.29951 AU
	-3335 Jun 10 j 15:26	0°♄					
max. Earth dist.	-3335 Jun 19 j 04:33	0°♄31'46	19.44333 AU	conjunction	-3328 Jul 24 j 11:23	3°♄56'57	0°35'03
				minimum elong	-3328 Jul 24 j 11:23	3°♄56'57	0°35'09
conjunction	-3335 Jun 20 j 10:23	0°♄36'24	0°11'22	retrograde	-3328 Nov 08 j 18:24	8°♄19'38	
minimum elong	-3335 Jun 20 j 10:23	0°♄36'24	0°11'28	opposition	-3327 Jan 21 j 04:44	6°♄17'33	0°40'33
behind sun begin	-3335 Jun 20 j 05:33	0°♄35'40		min. Earth dist.	-3327 Jan 22 j 04:37	6°♄14'57	17.30097 AU
behind sun end	-3335 Jun 20 j 15:12	0°♄37'08		direct	-3327 Apr 07 j 21:43	4°♄10'53	
retrograde	-3335 Oct 06 j 20:51	4°♄58'38		max. Earth dist.	-3327 Jul 28 j 11:18	8°♄39'19	19.30316 AU
opposition	-3335 Dec 19 j 03:34	2°♄56'25	0°14'44				
min. Earth dist.	-3335 Dec 20 j 04:57	2°♄53'38	17.42546 AU	conjunction	-3327 Jul 29 j 13:53	8°♄43'31	0°37'39
direct	-3334 Mar 05 j 02:08	0°♄50'29		minimum elong	-3327 Jul 29 j 13:53	8°♄43'31	0°37'46
max. Earth dist.	-3334 Jun 24 j 07:19	5°♄15'42	19.40784 AU	retrograde	-3327 Nov 13 j 18:45	13°♄06'00	
				opposition	-3326 Jan 26 j 06:27	11°♄04'02	0°43'19
conjunction	-3334 Jun 25 j 14:14	5°♄20'31	0°15'10	min. Earth dist.	-3326 Jan 27 j 04:23	11°♄01'40	17.30787 AU
				direct	-3326 Apr 13 j 02:33	8°♄57'29	

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Attention, astronomical year style is used: The year -3326 in astronomical counting style is the year 3327 BCE in historical counting style.

conjunction	-3326 Aug 03 j 16:10	13° \mathfrak{E} 29'57	0°39'59	min. Earth dist.	-3318 Mar 06 j 11:47	18° \mathfrak{Q} 55'40	17.54576 AU
minimum elong	-3326 Aug 03 j 16:10	13° \mathfrak{E} 29'57	0°40'07	direct	-3318 May 22 j 06:38	16° \mathfrak{Q} 52'10	
max. Earth dist.	-3326 Aug 02 j 16:11	13° \mathfrak{E} 26'10	19.31325 AU				
retrograde	-3326 Nov 18 j 18:11	17° \mathfrak{E} 52'12		conjunction	-3318 Sep 10 j 11:46	21° \mathfrak{Q} 18'20	0°47'54
opposition	-3325 Jan 31 j 08:37	15° \mathfrak{E} 50'24	0°45'47	minimum elong	-3318 Sep 10 j 11:46	21° \mathfrak{Q} 18'20	0°47'59
min. Earth dist.	-3325 Feb 01 j 05:57	15° \mathfrak{E} 48'06	17.32097 AU	max. Earth dist.	-3318 Sep 10 j 01:31	21° \mathfrak{Q} 16'43	19.56857 AU
direct	-3325 Apr 18 j 06:19	13° \mathfrak{E} 44'01		retrograde	-3318 Dec 26 j 10:34	25° \mathfrak{Q} 36'26	
				opposition	-3317 Mar 11 j 02:30	23° \mathfrak{Q} 35'36	0°53'09
conjunction	-3325 Aug 08 j 17:49	18° \mathfrak{E} 16'11	0°42'04	min. Earth dist.	-3317 Mar 11 j 10:31	23° \mathfrak{Q} 34'45	17.59250 AU
minimum elong	-3325 Aug 08 j 17:49	18° \mathfrak{E} 16'11	0°42'10	direct	-3317 May 27 j 10:29	21° \mathfrak{Q} 31'14	
max. Earth dist.	-3325 Aug 07 j 18:20	18° \mathfrak{E} 12'28	19.32943 AU				
retrograde	-3325 Nov 23 j 18:37	22° \mathfrak{E} 38'08		conjunction	-3317 Sep 15 j 07:33	25° \mathfrak{Q} 56'04	0°47'28
opposition	-3324 Feb 05 j 10:56	20° \mathfrak{E} 36'30	0°47'55	minimum elong	-3317 Sep 15 j 07:33	25° \mathfrak{Q} 56'04	0°47'32
min. Earth dist.	-3324 Feb 06 j 06:26	20° \mathfrak{E} 34'24	17.34002 AU	max. Earth dist.	-3317 Sep 14 j 23:32	25° \mathfrak{Q} 54'49	19.61712 AU
direct	-3324 Apr 22 j 10:41	18° \mathfrak{E} 30'19			-3317 Dec 09 j 02:34	0° \mathfrak{M}	
				retrograde	-3317 Dec 31 j 05:24	0° \mathfrak{M} 13'26	
conjunction	-3324 Aug 12 j 19:00	23° \mathfrak{E} 02'02	0°43'50		-3316 Jan 22 j 18:37	30° \mathfrak{R} \mathfrak{Q}	
minimum elong	-3324 Aug 12 j 19:00	23° \mathfrak{E} 02'02	0°43'58	opposition	-3316 Mar 15 j 03:38	28° \mathfrak{Q} 12'38	0°52'28
max. Earth dist.	-3324 Aug 11 j 22:17	22° \mathfrak{E} 58'46	19.35112 AU	min. Earth dist.	-3316 Mar 15 j 10:22	28° \mathfrak{Q} 11'56	17.64296 AU
retrograde	-3324 Nov 27 j 18:15	27° \mathfrak{E} 23'37		direct	-3316 May 31 j 11:24	26° \mathfrak{Q} 08'34	
opposition	-3323 Feb 09 j 13:27	25° \mathfrak{E} 22'10	0°49'44		-3316 Sep 10 j 13:20	0° \mathfrak{M}	
min. Earth dist.	-3323 Feb 10 j 07:57	25° \mathfrak{E} 20'10	17.36413 AU				
direct	-3323 Apr 27 j 14:25	23° \mathfrak{E} 16'13		conjunction	-3316 Sep 19 j 02:17	0° \mathfrak{M} 32'00	0°46'43
				minimum elong	-3316 Sep 19 j 02:17	0° \mathfrak{M} 32'00	0°46'47
conjunction	-3323 Aug 17 j 19:35	27° \mathfrak{E} 47'20	0°45'19	max. Earth dist.	-3316 Sep 18 j 20:35	0° \mathfrak{M} 31'06	19.66949 AU
minimum elong	-3323 Aug 17 j 19:35	27° \mathfrak{E} 47'20	0°45'25	retrograde	-3315 Jan 04 j 02:02	4° \mathfrak{M} 48'35	
max. Earth dist.	-3323 Aug 16 j 23:24	27° \mathfrak{E} 44'09	19.37764 AU	opposition	-3315 Mar 20 j 04:07	2° \mathfrak{M} 47'50	0°51'28
	-3323 Sep 23 j 08:16	0° \mathfrak{Q}		min. Earth dist.	-3315 Mar 20 j 07:33	2° \mathfrak{M} 47'29	17.69706 AU
retrograde	-3323 Dec 02 j 18:08	2° \mathfrak{Q} 08'30		direct	-3315 Jun 05 j 13:50	0° \mathfrak{M} 44'06	
opposition	-3322 Feb 14 j 15:52	0° \mathfrak{Q} 07'11	0°51'12				
min. Earth dist.	-3322 Feb 15 j 08:54	0° \mathfrak{Q} 05'22	17.39293 AU	conjunction	-3315 Sep 23 j 20:11	5° \mathfrak{M} 06'04	0°45'42
	-3322 Feb 17 j 11:06	30° \mathfrak{R} \mathfrak{E}		minimum elong	-3315 Sep 23 j 20:11	5° \mathfrak{M} 06'04	0°45'44
direct	-3322 May 02 j 17:59	28° \mathfrak{E} 01'29		max. Earth dist.	-3315 Sep 23 j 17:15	5° \mathfrak{M} 05'37	19.72543 AU
	-3322 Jul 11 j 07:02	0° \mathfrak{Q}		retrograde	-3314 Jan 08 j 19:24	9° \mathfrak{M} 21'52	
conjunction	-3322 Aug 22 j 19:42	2° \mathfrak{Q} 31'53	0°46'29	opposition	-3314 Mar 25 j 04:11	7° \mathfrak{M} 21'13	0°50'09
minimum elong	-3322 Aug 22 j 19:42	2° \mathfrak{Q} 31'53	0°46'35	min. Earth dist.	-3314 Mar 25 j 06:14	7° \mathfrak{M} 21'00	17.75490 AU
max. Earth dist.	-3322 Aug 22 j 02:08	2° \mathfrak{Q} 29'07	19.40855 AU	direct	-3314 Jun 10 j 12:42	5° \mathfrak{M} 17'50	
retrograde	-3322 Dec 07 j 17:49	6° \mathfrak{Q} 52'32		conjunction	-3314 Sep 28 j 13:10	9° \mathfrak{M} 38'18	0°44'23
opposition	-3321 Feb 19 j 18:30	4° \mathfrak{Q} 51'23	0°52'19	minimum elong	-3314 Sep 28 j 13:10	9° \mathfrak{M} 38'18	0°44'26
min. Earth dist.	-3321 Feb 20 j 09:55	4° \mathfrak{Q} 49'44	17.42572 AU	max. Earth dist.	-3314 Sep 28 j 12:19	9° \mathfrak{M} 38'10	19.78518 AU
direct	-3321 May 07 j 21:43	2° \mathfrak{Q} 45'57		retrograde	-3313 Jan 13 j 15:18	13° \mathfrak{M} 53'19	
				opposition	-3313 Mar 30 j 03:40	11° \mathfrak{M} 52'46	0°48'32
conjunction	-3321 Aug 27 j 18:50	7° \mathfrak{Q} 15'27	0°47'19	min. Earth dist.	-3313 Mar 30 j 02:11	11° \mathfrak{M} 52'55	17.81626 AU
minimum elong	-3321 Aug 27 j 18:50	7° \mathfrak{Q} 15'27	0°47'25	direct	-3313 Jun 15 j 12:37	9° \mathfrak{M} 49'47	
max. Earth dist.	-3321 Aug 27 j 02:15	7° \mathfrak{Q} 12'50	19.44328 AU				
retrograde	-3321 Dec 12 j 16:43	11° \mathfrak{Q} 35'34		conjunction	-3313 Oct 03 j 05:15	14° \mathfrak{M} 08'45	0°42'49
opposition	-3320 Feb 24 j 21:00	9° \mathfrak{Q} 34'31	0°53'04	minimum elong	-3313 Oct 03 j 05:15	14° \mathfrak{M} 08'45	0°42'50
min. Earth dist.	-3320 Feb 25 j 11:05	9° \mathfrak{Q} 33'01	17.46235 AU	max. Earth dist.	-3313 Oct 03 j 07:31	14° \mathfrak{M} 09'06	19.84810 AU
direct	-3320 May 12 j 00:26	7° \mathfrak{Q} 29'20		retrograde	-3312 Jan 18 j 08:09	18° \mathfrak{M} 22'59	
				opposition	-3312 Apr 03 j 02:41	16° \mathfrak{M} 22'34	0°46'38
conjunction	-3320 Aug 31 j 17:24	11° \mathfrak{Q} 57'51	0°47'50	min. Earth dist.	-3312 Apr 02 j 23:56	16° \mathfrak{M} 22'51	17.88058 AU
minimum elong	-3320 Aug 31 j 17:24	11° \mathfrak{Q} 57'51	0°47'55	direct	-3312 Jun 19 j 09:45	14° \mathfrak{M} 20'01	
max. Earth dist.	-3320 Aug 31 j 03:17	11° \mathfrak{Q} 55'38	19.48169 AU				
retrograde	-3320 Dec 16 j 15:48	16° \mathfrak{Q} 17'20		conjunction	-3312 Oct 06 j 20:31	18° \mathfrak{M} 37'26	0°41'00
	-3319 Feb 11 j 09:55	15° \mathfrak{R} \mathfrak{Q}		minimum elong	-3312 Oct 06 j 20:31	18° \mathfrak{M} 37'26	0°41'02
opposition	-3319 Feb 28 j 23:02	14° \mathfrak{Q} 16'23	0°53'27	max. Earth dist.	-3312 Oct 07 j 00:27	18° \mathfrak{M} 38'02	19.91372 AU
min. Earth dist.	-3319 Mar 01 j 11:00	14° \mathfrak{Q} 15'07	17.50233 AU	retrograde	-3311 Jan 22 j 03:03	22° \mathfrak{M} 50'52	
direct	-3319 May 17 j 04:26	12° \mathfrak{Q} 11'28		opposition	-3311 Apr 08 j 00:47	20° \mathfrak{M} 50'36	0°44'27
	-3319 Aug 09 j 19:45	15° \mathfrak{Q}		min. Earth dist.	-3311 Apr 07 j 18:49	20° \mathfrak{M} 51'13	17.94715 AU
				direct	-3311 Jun 24 j 07:16	18° \mathfrak{M} 48'30	
conjunction	-3319 Sep 05 j 15:04	16° \mathfrak{Q} 38'52	0°48'02	conjunction	-3311 Oct 11 j 11:06	23° \mathfrak{M} 04'22	0°38'56
minimum elong	-3319 Sep 05 j 15:04	16° \mathfrak{Q} 38'52	0°48'07	minimum elong	-3311 Oct 11 j 11:07	23° \mathfrak{M} 04'22	0°38'57
max. Earth dist.	-3319 Sep 05 j 02:24	16° \mathfrak{Q} 36'53	19.52340 AU	max. Earth dist.	-3311 Oct 11 j 18:04	23° \mathfrak{M} 05'27	19.98108 AU
retrograde	-3319 Dec 21 j 12:37	20° \mathfrak{Q} 57'42		retrograde	-3310 Jan 26 j 19:19	27° \mathfrak{M} 17'01	
opposition	-3318 Mar 06 j 01:00	18° \mathfrak{Q} 56'48	0°53'28	opposition	-3310 Apr 12 j 22:38	25° \mathfrak{M} 16'55	0°42'01

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Attention, astronomical year style is used: The year -3310 in astronomical counting style is the year 3311 BCE in historical counting style.

min. Earth dist.	-3310 Apr 12 j 15:33	25° Υ 17'38	18.01514 AU		-3303 Dec 27 j 10:30	0° \mathbb{M}	
direct	-3310 Jun 29 j 03:15	23° Υ 15'17		retrograde	-3302 Mar 02 j 15:20	1° \mathbb{M} 41'34	
					-3302 May 11 j 14:45	30° \mathbb{R} $\underline{\underline{\mathbb{E}}}$	
conjunction	-3310 Oct 16 j 00:40	27° Υ 29'33	0°36'40	min. Earth dist.	-3302 May 18 j 05:41	29° $\underline{\underline{\mathbb{E}}}$ 44'02	18.53559 AU
minimum elong	-3310 Oct 16 j 00:40	27° Υ 29'33	0°36'40	opposition	-3302 May 19 j 02:22	29° $\underline{\underline{\mathbb{E}}}$ 41'57	0°15'59
max. Earth dist.	-3310 Oct 16 j 08:55	27° Υ 30'49	20.04956 AU	direct	-3302 Aug 03 j 19:38	27° $\underline{\underline{\mathbb{E}}}$ 43'15	
	-3310 Nov 28 j 18:31	0° $\underline{\underline{\mathbb{E}}}$			-3302 Oct 18 j 22:22	0° \mathbb{M}	
retrograde	-3309 Jan 31 j 13:16	1° $\underline{\underline{\mathbb{E}}}$ 41'26					
	-3309 Apr 10 j 06:00	30° \mathbb{R} Υ		conjunction	-3302 Nov 18 j 11:54	1° \mathbb{M} 45'31	0°12'49
opposition	-3309 Apr 17 j 19:44	29° Υ 41'27	0°39'21	minimum elong	-3302 Nov 18 j 11:54	1° \mathbb{M} 45'31	0°12'45
min. Earth dist.	-3309 Apr 17 j 09:43	29° Υ 42'29	18.08385 AU	behind sun begin	-3302 Nov 18 j 07:42	1° \mathbb{M} 44'54	
direct	-3309 Jul 03 j 23:02	27° Υ 40'16		behind sun end	-3302 Nov 18 j 16:06	1° \mathbb{M} 46'07	
	-3309 Sep 18 j 15:15	0° $\underline{\underline{\mathbb{E}}}$		max. Earth dist.	-3302 Nov 19 j 09:17	1° \mathbb{M} 48'41	20.56508 AU
				retrograde	-3301 Mar 07 j 03:43	5° \mathbb{M} 51'29	
conjunction	-3309 Oct 20 j 13:45	1° $\underline{\underline{\mathbb{E}}}$ 52'59	0°34'11	opposition	-3301 May 23 j 17:18	3° \mathbb{M} 51'53	0°12'16
minimum elong	-3309 Oct 20 j 13:45	1° $\underline{\underline{\mathbb{E}}}$ 52'59	0°34'11	min. Earth dist.	-3301 May 22 j 19:02	3° \mathbb{M} 54'07	18.59441 AU
max. Earth dist.	-3309 Oct 21 j 00:53	1° $\underline{\underline{\mathbb{E}}}$ 54'41	20.11824 AU	direct	-3301 Aug 08 j 08:26	1° \mathbb{M} 53'28	
retrograde	-3308 Feb 05 j 04:18	6° $\underline{\underline{\mathbb{E}}}$ 04'05					
opposition	-3308 Apr 21 j 16:08	4° $\underline{\underline{\mathbb{E}}}$ 04'13	0°36'29	conjunction	-3301 Nov 22 j 19:27	5° \mathbb{M} 54'28	0°09'27
min. Earth dist.	-3308 Apr 21 j 05:09	4° $\underline{\underline{\mathbb{E}}}$ 05'21	18.15243 AU	minimum elong	-3301 Nov 22 j 19:27	5° \mathbb{M} 54'28	0°09'22
direct	-3308 Jul 07 j 18:00	2° $\underline{\underline{\mathbb{E}}}$ 03'28		behind sun begin	-3301 Nov 22 j 13:56	5° \mathbb{M} 53'40	
				behind sun end	-3301 Nov 23 j 00:58	5° \mathbb{M} 55'16	
conjunction	-3308 Oct 24 j 01:56	6° $\underline{\underline{\mathbb{E}}}$ 14'37	0°31'31	max. Earth dist.	-3301 Nov 23 j 19:25	5° \mathbb{M} 58'01	20.62314 AU
minimum elong	-3308 Oct 24 j 01:56	6° $\underline{\underline{\mathbb{E}}}$ 14'37	0°31'29	retrograde	-3300 Mar 10 j 14:03	9° \mathbb{M} 59'48	
max. Earth dist.	-3308 Oct 24 j 13:48	6° $\underline{\underline{\mathbb{E}}}$ 16'25	20.18653 AU	min. Earth dist.	-3300 May 26 j 07:39	8° \mathbb{M} 02'38	18.65177 AU
retrograde	-3307 Feb 08 j 21:06	10° $\underline{\underline{\mathbb{E}}}$ 24'57		opposition	-3300 May 27 j 07:14	8° \mathbb{M} 00'16	0°08'30
opposition	-3307 Apr 26 j 11:46	8° $\underline{\underline{\mathbb{E}}}$ 25'11	0°33'24	direct	-3300 Aug 11 j 20:49	6° \mathbb{M} 02'10	
min. Earth dist.	-3307 Apr 25 j 22:20	8° $\underline{\underline{\mathbb{E}}}$ 26'33	18.22024 AU				
direct	-3307 Jul 12 j 12:03	6° $\underline{\underline{\mathbb{E}}}$ 24'50		conjunction	-3300 Nov 26 j 02:18	10° \mathbb{M} 01'57	0°06'03
				minimum elong	-3300 Nov 26 j 02:17	10° \mathbb{M} 01'57	0°06'00
conjunction	-3307 Oct 28 j 13:28	10° $\underline{\underline{\mathbb{E}}}$ 34'26	0°28'41	behind sun begin	-3300 Nov 25 j 20:03	10° \mathbb{M} 01'03	
minimum elong	-3307 Oct 28 j 13:28	10° $\underline{\underline{\mathbb{E}}}$ 34'26	0°28'40	behind sun end	-3300 Nov 26 j 08:31	10° \mathbb{M} 02'51	
max. Earth dist.	-3307 Oct 29 j 04:00	10° $\underline{\underline{\mathbb{E}}}$ 36'38	20.25361 AU	max. Earth dist.	-3300 Nov 27 j 02:30	10° \mathbb{M} 05'31	20.67974 AU
retrograde	-3306 Feb 13 j 10:43	14° $\underline{\underline{\mathbb{E}}}$ 43'59		retrograde	-3299 Mar 15 j 00:48	14° \mathbb{M} 06'45	
opposition	-3306 May 01 j 06:47	12° $\underline{\underline{\mathbb{E}}}$ 44'18	0°30'10	opposition	-3299 May 31 j 20:38	12° \mathbb{M} 07'16	0°04'43
min. Earth dist.	-3306 Apr 30 j 16:22	12° $\underline{\underline{\mathbb{E}}}$ 45'46	18.28657 AU	min. Earth dist.	-3299 May 30 j 19:55	12° \mathbb{M} 09'45	18.70759 AU
direct	-3306 Jul 17 j 05:47	10° $\underline{\underline{\mathbb{E}}}$ 44'20		direct	-3299 Aug 16 j 07:24	10° \mathbb{M} 09'29	
conjunction	-3306 Nov 02 j 00:12	14° $\underline{\underline{\mathbb{E}}}$ 52'24	0°25'42	conjunction	-3299 Nov 30 j 08:46	14° \mathbb{M} 08'09	0°02'38
minimum elong	-3306 Nov 02 j 00:12	14° $\underline{\underline{\mathbb{E}}}$ 52'24	0°25'40	minimum elong	-3299 Nov 30 j 08:46	14° \mathbb{M} 08'09	0°02'33
max. Earth dist.	-3306 Nov 02 j 15:14	14° $\underline{\underline{\mathbb{E}}}$ 54'40	20.31921 AU	behind sun begin	-3299 Nov 30 j 02:14	14° \mathbb{M} 07'13	
retrograde	-3305 Feb 18 j 02:14	19° $\underline{\underline{\mathbb{E}}}$ 01'12		behind sun end	-3299 Nov 30 j 15:17	14° \mathbb{M} 09'04	
min. Earth dist.	-3305 May 05 j 08:26	17° $\underline{\underline{\mathbb{E}}}$ 03'13	18.35137 AU	max. Earth dist.	-3299 Dec 01 j 11:20	14° \mathbb{M} 12'03	20.73449 AU
opposition	-3305 May 06 j 00:57	17° $\underline{\underline{\mathbb{E}}}$ 01'33	0°26'46		-3299 Dec 15 j 03:51	15° \mathbb{M}	
direct	-3305 Jul 21 j 22:19	15° $\underline{\underline{\mathbb{E}}}$ 01'55		retrograde	-3298 Mar 19 j 11:06	18° \mathbb{M} 12'26	
				min. Earth dist.	-3298 Jun 04 j 07:27	16° \mathbb{M} 15'38	18.76118 AU
conjunction	-3305 Nov 06 j 10:15	19° $\underline{\underline{\mathbb{E}}}$ 08'28	0°22'36	opposition	-3298 Jun 05 j 09:24	16° \mathbb{M} 13'02	0°00'55
minimum elong	-3305 Nov 06 j 10:15	19° $\underline{\underline{\mathbb{E}}}$ 08'28	0°22'35		-3298 Jul 08 j 03:29	15° \mathbb{R} \mathbb{M}	
max. Earth dist.	-3305 Nov 07 j 03:56	19° $\underline{\underline{\mathbb{E}}}$ 11'07	20.38305 AU	direct	-3298 Aug 20 j 18:27	14° \mathbb{M} 15'35	
retrograde	-3304 Feb 22 j 14:32	23° $\underline{\underline{\mathbb{E}}}$ 16'30		desc. node	-3298 Sep 03 j 11:53	14° \mathbb{M} 20'27	
opposition	-3304 May 09 j 18:18	21° $\underline{\underline{\mathbb{E}}}$ 16'53	0°23'16		-3298 Oct 01 j 16:12	15° \mathbb{M}	
min. Earth dist.	-3304 May 09 j 00:44	21° $\underline{\underline{\mathbb{E}}}$ 18'40	18.41428 AU				
direct	-3304 Jul 25 j 14:29	19° $\underline{\underline{\mathbb{E}}}$ 17'35		conjunction	-3298 Dec 04 j 14:51	18° \mathbb{M} 13'10	0°00'-52
				minimum elong	-3298 Dec 04 j 14:51	18° \mathbb{M} 13'10	0°00'57
conjunction	-3304 Nov 09 j 19:28	23° $\underline{\underline{\mathbb{E}}}$ 22'38	0°19'25	behind sun begin	-3298 Dec 04 j 08:19	18° \mathbb{M} 12'15	
minimum elong	-3304 Nov 09 j 19:28	23° $\underline{\underline{\mathbb{E}}}$ 22'38	0°19'22	behind sun end	-3298 Dec 04 j 21:23	18° \mathbb{M} 14'06	
max. Earth dist.	-3304 Nov 10 j 13:35	23° $\underline{\underline{\mathbb{E}}}$ 25'21	20.44516 AU	max. Earth dist.	-3298 Dec 05 j 17:23	18° \mathbb{M} 17'03	20.78688 AU
retrograde	-3303 Feb 26 j 04:20	27° $\underline{\underline{\mathbb{E}}}$ 29'57		retrograde	-3297 Mar 23 j 20:40	22° \mathbb{M} 17'01	
opposition	-3303 May 14 j 10:40	25° $\underline{\underline{\mathbb{E}}}$ 30'20	0°19'40	opposition	-3297 Jun 09 j 21:31	20° \mathbb{M} 17'42	0°-2'-50
min. Earth dist.	-3303 May 13 j 15:20	25° $\underline{\underline{\mathbb{E}}}$ 32'17	18.47567 AU	min. Earth dist.	-3297 Jun 08 j 19:03	20° \mathbb{M} 20'21	18.81230 AU
direct	-3303 Jul 30 j 05:15	23° $\underline{\underline{\mathbb{E}}}$ 31'19		direct	-3297 Aug 25 j 03:06	18° \mathbb{M} 20'32	
conjunction	-3303 Nov 14 j 04:08	27° $\underline{\underline{\mathbb{E}}}$ 34'58	0°16'08	conjunction	-3297 Dec 08 j 20:49	22° \mathbb{M} 17'10	0°-4'-18
minimum elong	-3303 Nov 14 j 04:08	27° $\underline{\underline{\mathbb{E}}}$ 34'58	0°16'05	minimum elong	-3297 Dec 08 j 20:49	22° \mathbb{M} 17'10	0°04'25
behind sun begin	-3303 Nov 14 j 03:03	27° $\underline{\underline{\mathbb{E}}}$ 34'48		behind sun begin	-3297 Dec 08 j 14:24	22° \mathbb{M} 16'15	
behind sun end	-3303 Nov 14 j 05:13	27° $\underline{\underline{\mathbb{E}}}$ 35'07		behind sun end	-3297 Dec 09 j 03:15	22° \mathbb{M} 18'05	
max. Earth dist.	-3303 Nov 15 j 00:59	27° $\underline{\underline{\mathbb{E}}}$ 38'04	20.50575 AU	max. Earth dist.	-3297 Dec 10 j 01:14	22° \mathbb{M} 21'19	20.83637 AU

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Attention, astronomical year style is used: The year -3296 in astronomical counting style is the year 3297 BCE in historical counting style.

retrograde	-3296 Mar 27 j 06:35	26° \mathbb{L} 20'35		opposition	-3289 Jul 13 j 02:43	22° \mathbb{Z} 23'39	0°-30'-35
min. Earth dist.	-3296 Jun 12 j 05:39	24° \mathbb{L} 24'05	18.86002 AU	direct	-3289 Sep 26 j 13:00	20° \mathbb{Z} 27'33	
opposition	-3296 Jun 13 j 08:59	24° \mathbb{L} 21'21	0°-6'-35				
direct	-3296 Aug 28 j 12:49	22° \mathbb{L} 24'28		conjunction	-3288 Jan 09 j 15:17	24° \mathbb{Z} 19'12	0°-29'00
				minimum elong	-3288 Jan 09 j 15:17	24° \mathbb{Z} 19'12	0°29'08
conjunction	-3296 Dec 12 j 02:26	26° \mathbb{L} 20'13	0°-7'-39	max. Earth dist.	-3288 Jan 10 j 20:02	24° \mathbb{Z} 23'19	21.07029 AU
minimum elong	-3296 Dec 12 j 02:26	26° \mathbb{L} 20'13	0°07'47	retrograde	-3288 Apr 29 j 02:51	28° \mathbb{Z} 20'43	
behind sun begin	-3296 Dec 11 j 20:30	26° \mathbb{L} 19'23		min. Earth dist.	-3288 Jul 15 j 07:30	26° \mathbb{Z} 23'58	19.07569 AU
behind sun end	-3296 Dec 12 j 08:21	26° \mathbb{L} 21'03		opposition	-3288 Jul 16 j 10:05	26° \mathbb{Z} 21'18	0°-33'-30
max. Earth dist.	-3296 Dec 13 j 06:19	26° \mathbb{L} 24'16	20.88219 AU	direct	-3288 Sep 29 j 19:42	24° \mathbb{Z} 25'12	
	-3295 Feb 28 j 17:48	0° \mathbb{Z}					
retrograde	-3295 Mar 31 j 15:37	0° \mathbb{Z} 23'16		conjunction	-3287 Jan 12 j 20:15	28° \mathbb{Z} 16'38	0°-31'-34
	-3295 May 02 j 06:21	30° \mathbb{R} \mathbb{L}		minimum elong	-3287 Jan 12 j 20:15	28° \mathbb{Z} 16'38	0°31'41
opposition	-3295 Jun 17 j 19:56	28° \mathbb{L} 24'06	0°-10'-18	max. Earth dist.	-3287 Jan 13 j 23:44	28° \mathbb{Z} 20'34	21.07925 AU
min. Earth dist.	-3295 Jun 16 j 16:40	28° \mathbb{L} 26'49	18.90394 AU		-3287 Feb 12 j 23:19	0° \mathbb{Z}	
direct	-3295 Sep 01 j 20:25	26° \mathbb{L} 27'27		retrograde	-3287 May 03 j 10:19	2° \mathbb{Z} 18'09	
	-3295 Dec 09 j 21:42	0° \mathbb{Z}		opposition	-3287 Jul 20 j 17:15	0° \mathbb{Z} 18'41	0°-36'-15
				min. Earth dist.	-3287 Jul 19 j 15:48	0° \mathbb{Z} 21'14	19.08289 AU
conjunction	-3295 Dec 16 j 08:06	0° \mathbb{Z} 22'24	0°-10'-58		-3287 Jul 28 j 11:59	30° \mathbb{R} \mathbb{Z}	
minimum elong	-3295 Dec 16 j 08:05	0° \mathbb{Z} 22'24	0°11'05	direct	-3287 Oct 03 j 23:13	28° \mathbb{Z} 22'35	
behind sun begin	-3295 Dec 16 j 03:09	0° \mathbb{Z} 21'42			-3287 Dec 06 j 12:50	0° \mathbb{Z}	
behind sun end	-3295 Dec 16 j 13:02	0° \mathbb{Z} 23'06					
max. Earth dist.	-3295 Dec 17 j 13:22	0° \mathbb{Z} 26'38	20.92387 AU	conjunction	-3286 Jan 17 j 01:38	2° \mathbb{Z} 13'55	0°-33'-59
retrograde	-3294 Apr 05 j 00:55	4° \mathbb{Z} 25'07		minimum elong	-3286 Jan 17 j 01:38	2° \mathbb{Z} 13'55	0°34'07
min. Earth dist.	-3294 Jun 21 j 02:29	2° \mathbb{Z} 28'47	18.94328 AU	max. Earth dist.	-3286 Jan 18 j 05:48	2° \mathbb{Z} 17'56	21.08463 AU
opposition	-3294 Jun 22 j 06:22	2° \mathbb{Z} 26'00	0°-13'-56	retrograde	-3286 May 07 j 18:43	6° \mathbb{Z} 15'29	
direct	-3294 Sep 06 j 04:48	0° \mathbb{Z} 29'34		min. Earth dist.	-3286 Jul 23 j 22:17	4° \mathbb{Z} 18'34	19.08641 AU
				opposition	-3286 Jul 25 j 00:01	4° \mathbb{Z} 15'59	0°-38'-50
conjunction	-3294 Dec 20 j 13:25	4° \mathbb{Z} 23'45	0°-14'-13	direct	-3286 Oct 08 j 05:02	2° \mathbb{Z} 19'54	
minimum elong	-3294 Dec 20 j 13:25	4° \mathbb{Z} 23'45	0°14'21				
behind sun begin	-3294 Dec 20 j 10:16	4° \mathbb{Z} 23'18		conjunction	-3285 Jan 21 j 07:05	6° \mathbb{Z} 11'12	0°-36'-14
behind sun end	-3294 Dec 20 j 16:34	4° \mathbb{Z} 24'11		minimum elong	-3285 Jan 21 j 07:05	6° \mathbb{Z} 11'12	0°36'22
max. Earth dist.	-3294 Dec 21 j 17:44	4° \mathbb{Z} 27'51	20.96077 AU	max. Earth dist.	-3285 Jan 22 j 09:41	6° \mathbb{Z} 15'00	21.08633 AU
retrograde	-3293 Apr 09 j 09:50	8° \mathbb{Z} 26'11		retrograde	-3285 May 12 j 02:50	10° \mathbb{Z} 12'55	
opposition	-3293 Jun 26 j 16:24	6° \mathbb{Z} 27'04	0°-17'-30	min. Earth dist.	-3285 Jul 28 j 06:27	8° \mathbb{Z} 15'50	19.08626 AU
min. Earth dist.	-3293 Jun 25 j 13:04	6° \mathbb{Z} 29'47	18.97773 AU	opposition	-3285 Jul 29 j 06:42	8° \mathbb{Z} 13'23	0°-41'-15
direct	-3293 Sep 10 j 11:44	4° \mathbb{Z} 30'47		direct	-3285 Oct 12 j 08:26	6° \mathbb{Z} 17'18	
conjunction	-3293 Dec 24 j 18:55	8° \mathbb{Z} 24'18	0°-17'-23	conjunction	-3284 Jan 25 j 13:02	10° \mathbb{Z} 08'43	0°-38'-20
minimum elong	-3293 Dec 24 j 18:55	8° \mathbb{Z} 24'18	0°17'30	minimum elong	-3284 Jan 25 j 13:02	10° \mathbb{Z} 08'43	0°38'28
max. Earth dist.	-3293 Dec 26 j 00:10	8° \mathbb{Z} 28'31	20.99252 AU	max. Earth dist.	-3284 Jan 26 j 15:56	10° \mathbb{Z} 12'33	21.08422 AU
retrograde	-3292 Apr 12 j 18:30	12° \mathbb{Z} 26'27		retrograde	-3284 May 15 j 11:29	14° \mathbb{Z} 10'36	
min. Earth dist.	-3292 Jun 28 j 21:54	10° \mathbb{Z} 30'05	19.00678 AU	opposition	-3284 Aug 01 j 12:57	12° \mathbb{Z} 11'04	0°-43'-27
opposition	-3292 Jun 30 j 01:35	10° \mathbb{Z} 27'19	0°-20'-57	min. Earth dist.	-3284 Jul 31 j 12:43	12° \mathbb{Z} 13'31	19.08207 AU
direct	-3292 Sep 13 j 19:24	8° \mathbb{Z} 31'08		direct	-3284 Oct 15 j 13:24	10° \mathbb{Z} 14'59	
conjunction	-3292 Dec 28 j 00:04	12° \mathbb{Z} 24'04	0°-20'-28	conjunction	-3283 Jan 28 j 19:10	14° \mathbb{Z} 06'36	0°-40'-15
minimum elong	-3292 Dec 28 j 00:04	12° \mathbb{Z} 24'04	0°20'36	minimum elong	-3283 Jan 28 j 19:10	14° \mathbb{Z} 06'36	0°40'22
max. Earth dist.	-3292 Dec 29 j 04:06	12° \mathbb{Z} 28'06	21.01900 AU	max. Earth dist.	-3283 Jan 29 j 20:09	14° \mathbb{Z} 10'09	21.07801 AU
retrograde	-3291 Apr 17 j 02:44	16° \mathbb{Z} 25'59		retrograde	-3283 May 19 j 20:17	18° \mathbb{Z} 08'44	
min. Earth dist.	-3291 Jul 03 j 07:43	14° \mathbb{Z} 29'28	19.03077 AU	opposition	-3283 Aug 05 j 19:24	16° \mathbb{Z} 09'12	0°-45'-28
opposition	-3291 Jul 04 j 10:32	14° \mathbb{Z} 26'47	0°-24'-18	min. Earth dist.	-3283 Aug 04 j 21:00	16° \mathbb{Z} 11'28	19.07375 AU
direct	-3291 Sep 18 j 01:13	12° \mathbb{Z} 30'40		direct	-3283 Oct 19 j 16:57	14° \mathbb{Z} 13'05	
conjunction	-3290 Jan 01 j 05:07	16° \mathbb{Z} 23'04	0°-23'-26	conjunction	-3282 Feb 02 j 01:49	18° \mathbb{Z} 05'00	0°-41'-58
minimum elong	-3290 Jan 01 j 05:07	16° \mathbb{Z} 23'04	0°23'33	minimum elong	-3282 Feb 02 j 01:49	18° \mathbb{Z} 05'00	0°42'06
max. Earth dist.	-3290 Jan 02 j 10:09	16° \mathbb{Z} 27'14	21.04051 AU	max. Earth dist.	-3282 Feb 03 j 02:45	18° \mathbb{Z} 08'33	21.06746 AU
retrograde	-3290 Apr 21 j 11:01	20° \mathbb{Z} 24'48		retrograde	-3282 May 24 j 05:37	22° \mathbb{Z} 07'26	
opposition	-3290 Jul 08 j 18:52	18° \mathbb{Z} 25'32	0°-27'-31	min. Earth dist.	-3282 Aug 09 j 03:38	20° \mathbb{Z} 10'07	19.06074 AU
min. Earth dist.	-3290 Jul 07 j 15:37	18° \mathbb{Z} 28'15	19.04990 AU	opposition	-3282 Aug 10 j 01:39	20° \mathbb{Z} 07'53	0°-47'-16
direct	-3290 Sep 22 j 08:36	16° \mathbb{Z} 29'26		direct	-3282 Oct 23 j 21:54	18° \mathbb{Z} 11'43	
conjunction	-3289 Jan 05 j 10:06	20° \mathbb{Z} 21'24	0°-26'-17	conjunction	-3281 Feb 06 j 09:00	22° \mathbb{Z} 04'01	0°-43'-30
minimum elong	-3289 Jan 05 j 10:06	20° \mathbb{Z} 21'24	0°26'25	minimum elong	-3281 Feb 06 j 08:59	22° \mathbb{Z} 04'01	0°43'37
max. Earth dist.	-3289 Jan 06 j 14:00	20° \mathbb{Z} 25'24	21.05744 AU	max. Earth dist.	-3281 Feb 07 j 07:31	22° \mathbb{Z} 07'13	21.05197 AU
retrograde	-3289 Apr 25 j 18:39	24° \mathbb{Z} 23'00		retrograde	-3281 May 28 j 14:31	26° \mathbb{Z} 06'48	
min. Earth dist.	-3289 Jul 12 j 00:31	22° \mathbb{Z} 26'16	19.06482 AU	opposition	-3281 Aug 14 j 07:57	24° \mathbb{Z} 07'13	0°-48'-50

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Attention, astronomical year style is used: The year -3281 in astronomical counting style is the year 3282 BCE in historical counting style.

min. Earth dist.	-3281 Aug 13 j 12:18	24°☾09'12	19.04270 AU	max. Earth dist.	-3273 Mar 11 j 22:23	24°☾23'40	20.75240 AU
direct	-3281 Oct 28 j 01:51	22°☾10'56		retrograde	-3273 Jun 30 j 21:33	28°☾29'08	
conjunction	-3280 Feb 10 j 16:52	26°☾03'42	0°-44'-49	opposition	-3273 Sep 15 j 13:04	26°☾28'25	0°-52'-28
minimum elong	-3280 Feb 10 j 16:52	26°☾03'42	0°44'56	min. Earth dist.	-3273 Sep 15 j 06:37	26°☾29'05	18.72636 AU
max. Earth dist.	-3280 Feb 11 j 14:46	26°☾06'49	21.03124 AU	direct	-3273 Nov 29 j 01:32	24°☾29'57	
retrograde	-3280 May 15 j 03:56	0°☾		conjunction	-3272 Mar 15 j 02:36	28°☾29'08	0°-47'-6
retrograde	-3280 Jun 01 j 00:48	0°☾06'52		minimum elong	-3272 Mar 15 j 02:36	28°☾29'08	0°47'11
retrograde	-3280 Jun 17 j 21:18	30°☾		max. Earth dist.	-3272 Mar 15 j 09:49	28°☾30'11	20.69955 AU
opposition	-3280 Aug 17 j 14:14	28°☾07'13	0°-50'-11	retrograde	-3272 Apr 11 j 00:10	0°☾	
min. Earth dist.	-3280 Aug 16 j 19:16	28°☾09'09	19.01914 AU	retrograde	-3272 Jul 04 j 10:15	2°☾36'29	
direct	-3280 Oct 31 j 07:33	26°☾10'47		opposition	-3272 Sep 18 j 20:38	0°☾35'39	0°-51'-44
direct	-3279 Feb 12 j 20:17	0°☾		min. Earth dist.	-3272 Sep 18 j 14:47	0°☾36'16	18.67239 AU
conjunction	-3279 Feb 14 j 00:55	0°☾04'05	0°-45'-55	direct	-3272 Oct 03 j 07:39	30°☾	
minimum elong	-3279 Feb 14 j 00:55	0°☾04'05	0°46'03	direct	-3272 Dec 02 j 10:01	28°☾36'53	
max. Earth dist.	-3279 Feb 14 j 20:06	0°☾06'49	21.00493 AU	-3271 Jan 29 j 10:23	0°☾		
retrograde	-3279 Jun 05 j 09:09	4°☾07'39		conjunction	-3271 Mar 19 j 15:39	2°☾37'14	0°-46'-18
opposition	-3279 Aug 21 j 20:47	2°☾07'53	0°-51'-17	minimum elong	-3271 Mar 19 j 15:39	2°☾37'14	0°46'22
min. Earth dist.	-3279 Aug 21 j 04:21	2°☾09'34	18.99010 AU	max. Earth dist.	-3271 Mar 19 j 20:15	2°☾37'54	20.64460 AU
direct	-3279 Nov 04 j 11:57	0°☾11'15		retrograde	-3271 Jul 08 j 21:33	6°☾45'20	
conjunction	-3278 Feb 18 j 09:48	4°☾05'09	0°-46'-48	opposition	-3271 Sep 23 j 04:50	4°☾44'24	0°-50'-43
minimum elong	-3278 Feb 18 j 09:48	4°☾05'09	0°46'54	min. Earth dist.	-3271 Sep 23 j 01:37	4°☾44'44	18.61650 AU
max. Earth dist.	-3278 Feb 19 j 04:10	4°☾07'46	20.97331 AU	direct	-3271 Dec 06 j 16:58	2°☾45'19	
retrograde	-3278 Jun 09 j 20:10	8°☾09'08		conjunction	-3270 Mar 24 j 05:50	6°☾46'57	0°-45'-16
min. Earth dist.	-3278 Aug 25 j 11:27	6°☾10'50	18.95583 AU	minimum elong	-3270 Mar 24 j 05:50	6°☾46'57	0°45'20
opposition	-3278 Aug 26 j 03:05	6°☾09'14	0°-52'-8	max. Earth dist.	-3270 Mar 24 j 09:05	6°☾47'25	20.58785 AU
direct	-3278 Nov 08 j 18:37	4°☾12'21		retrograde	-3270 Jul 13 j 11:22	10°☾55'48	
conjunction	-3277 Feb 22 j 19:03	8°☾06'54	0°-47'-27	opposition	-3270 Sep 27 j 13:10	8°☾54'48	0°-49'-26
minimum elong	-3277 Feb 22 j 19:03	8°☾06'54	0°47'34	min. Earth dist.	-3270 Sep 27 j 10:48	8°☾55'03	18.55870 AU
max. Earth dist.	-3277 Feb 23 j 10:36	8°☾09'07	20.93666 AU	direct	-3270 Dec 11 j 02:16	6°☾55'25	
retrograde	-3277 Jun 14 j 04:17	12°☾11'21		conjunction	-3269 Mar 28 j 20:54	10°☾58'24	0°-43'-58
opposition	-3277 Aug 30 j 09:40	10°☾11'17	0°-52'-43	minimum elong	-3269 Mar 28 j 20:54	10°☾58'24	0°44'02
min. Earth dist.	-3277 Aug 29 j 20:42	10°☾12'37	18.91690 AU	max. Earth dist.	-3269 Mar 28 j 21:21	10°☾58'28	20.52903 AU
direct	-3277 Nov 12 j 23:11	8°☾14'06		retrograde	-3269 Jul 18 j 00:05	15°☾08'04	
conjunction	-3276 Feb 27 j 04:57	12°☾09'25	0°-47'-51	opposition	-3269 Oct 01 j 22:19	13°☾07'00	0°-47'-53
minimum elong	-3276 Feb 27 j 04:57	12°☾09'25	0°47'57	min. Earth dist.	-3269 Oct 01 j 22:55	13°☾06'56	18.49883 AU
max. Earth dist.	-3276 Feb 27 j 19:39	12°☾11'31	20.89565 AU	direct	-3269 Dec 15 j 10:40	11°☾07'18	
retrograde	-3276 Apr 22 j 02:31	15°☾		conjunction	-3268 Apr 01 j 12:50	15°☾11'42	0°-42'-26
retrograde	-3276 Jun 17 j 15:24	16°☾14'20		minimum elong	-3268 Apr 01 j 12:50	15°☾11'42	0°42'29
retrograde	-3276 Aug 14 j 14:08	15°☾		max. Earth dist.	-3268 Apr 01 j 11:28	15°☾11'30	20.46811 AU
opposition	-3276 Sep 02 j 16:05	14°☾14'06	0°-53'-3	retrograde	-3268 Jul 21 j 15:09	19°☾22'11	
min. Earth dist.	-3276 Sep 02 j 03:50	14°☾15'21	18.87386 AU	opposition	-3268 Oct 05 j 07:49	17°☾21'02	0°-46'-3
direct	-3276 Nov 16 j 06:49	12°☾16'37		min. Earth dist.	-3268 Oct 05 j 09:28	17°☾20'52	18.43671 AU
direct	-3275 Feb 09 j 03:20	15°☾		direct	-3268 Dec 18 j 21:41	15°☾21'01	
conjunction	-3275 Mar 02 j 15:16	16°☾12'45	0°-48'-2	conjunction	-3267 Apr 06 j 05:41	19°☾26'52	0°-40'-39
minimum elong	-3275 Mar 02 j 15:16	16°☾12'45	0°48'08	minimum elong	-3267 Apr 06 j 05:41	19°☾26'52	0°40'41
max. Earth dist.	-3275 Mar 03 j 03:16	16°☾14'28	20.85087 AU	max. Earth dist.	-3267 Apr 06 j 01:29	19°☾26'15	20.40476 AU
retrograde	-3275 Jun 22 j 00:04	20°☾18'13		retrograde	-3267 Jul 26 j 04:50	23°☾38'10	
opposition	-3275 Sep 06 j 22:55	18°☾17'48	0°-53'-7	opposition	-3267 Oct 09 j 18:06	21°☾36'57	0°-43'-57
min. Earth dist.	-3275 Sep 06 j 13:14	18°☾18'48	18.82749 AU	min. Earth dist.	-3267 Oct 09 j 22:49	21°☾36'27	18.37223 AU
direct	-3275 Nov 20 j 11:39	16°☾19'59		direct	-3267 Dec 23 j 07:29	19°☾36'33	
conjunction	-3274 Mar 07 j 02:19	20°☾17'03	0°-47'-58	conjunction	-3266 Apr 10 j 23:31	23°☾43'53	0°-38'-37
minimum elong	-3274 Mar 07 j 02:19	20°☾17'03	0°48'03	minimum elong	-3266 Apr 10 j 23:31	23°☾43'53	0°38'38
max. Earth dist.	-3274 Mar 07 j 13:24	20°☾18'38	20.80303 AU	max. Earth dist.	-3266 Apr 10 j 17:00	23°☾42'56	20.33921 AU
retrograde	-3274 Jun 26 j 11:46	24°☾23'06		retrograde	-3266 Jul 30 j 21:19	27°☾56'01	
opposition	-3274 Sep 11 j 05:49	22°☾22'31	0°-52'-56	opposition	-3266 Oct 14 j 04:53	25°☾54'40	0°-41'-36
min. Earth dist.	-3274 Sep 10 j 20:45	22°☾23'28	18.77816 AU	min. Earth dist.	-3266 Oct 14 j 10:46	25°☾54'02	18.30549 AU
direct	-3274 Nov 24 j 19:53	20°☾24'23		direct	-3266 Dec 27 j 20:26	23°☾53'53	
conjunction	-3273 Mar 11 j 14:03	24°☾22'28	0°-47'-39	conjunction	-3265 Apr 15 j 18:12	28°☾02'43	0°-36'-21
minimum elong	-3273 Mar 11 j 14:03	24°☾22'28	0°47'43	minimum elong	-3265 Apr 15 j 18:13	28°☾02'43	0°36'23

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

max. Earth dist.	-3265 Apr 15 j 09:00	28° ✕ 01'22	20.27139 AU	direct	-3257 Jan 31 j 22:11	29° ∩ 15'04	
	-3265 May 20 j 05:00	0° ∩			-3257 Mar 14 j 14:31	0° ♁	
retrograde	-3265 Aug 04 j 12:03	2° ∩ 15'39		max. Earth dist.	-3257 May 22 j 02:55	3° ♁ 32'40	19.73778 AU
opposition	-3265 Oct 18 j 16:19	0° ∩ 14'11	0°-38'-58				
min. Earth dist.	-3265 Oct 19 j 01:12	0° ∩ 13'14	18.23685 AU	conjunction	-3257 May 23 j 02:19	3° ♁ 36'13	0°-11'-27
	-3265 Oct 24 j 05:27	30° ♁		minimum elong	-3257 May 23 j 02:19	3° ♁ 36'13	0°11'24
direct	-3264 Jan 01 j 07:57	28° ✕ 12'57		behind sun begin	-3257 May 22 j 21:28	3° ♁ 35'30	
	-3264 Mar 07 j 15:48	0° ∩		behind sun end	-3257 May 23 j 07:09	3° ♁ 36'56	
				retrograde	-3257 Sep 09 j 15:07	7° ♁ 55'11	
conjunction	-3264 Apr 19 j 13:39	2° ∩ 23'19	0°-33'-52	opposition	-3257 Nov 22 j 11:41	5° ♁ 52'49	0°-10'-38
minimum elong	-3264 Apr 19 j 13:39	2° ∩ 23'19	0°33'53	min. Earth dist.	-3257 Nov 23 j 08:05	5° ♁ 50'36	17.70931 AU
max. Earth dist.	-3264 Apr 19 j 02:03	2° ∩ 21'37	20.20220 AU	direct	-3256 Feb 05 j 17:00	3° ♁ 48'23	
retrograde	-3264 Aug 08 j 05:27	6° ∩ 37'03		max. Earth dist.	-3256 May 26 j 01:38	8° ♁ 07'05	19.68152 AU
opposition	-3264 Oct 22 j 04:18	4° ∩ 35'25	0°-36'-7				
min. Earth dist.	-3264 Oct 22 j 14:12	4° ∩ 34'22	18.16715 AU	conjunction	-3256 May 27 j 03:26	8° ♁ 11'01	0°-7'-43
direct	-3263 Jan 04 j 22:07	2° ∩ 33'45		minimum elong	-3256 May 27 j 03:25	8° ♁ 11'00	0°07'40
				behind sun begin	-3256 May 26 j 21:18	8° ♁ 10'06	
conjunction	-3263 Apr 24 j 09:45	6° ∩ 45'39	0°-31'-11	behind sun end	-3256 May 27 j 09:32	8° ♁ 11'55	
minimum elong	-3263 Apr 24 j 09:45	6° ∩ 45'39	0°31'11	retrograde	-3256 Sep 13 j 11:41	12° ♁ 30'39	
max. Earth dist.	-3263 Apr 23 j 20:08	6° ∩ 43'38	20.13215 AU	opposition	-3256 Nov 26 j 05:32	10° ♁ 28'17	0°-6'-26
retrograde	-3263 Aug 12 j 21:49	11° ∩ 00'10		min. Earth dist.	-3256 Nov 27 j 02:52	10° ♁ 25'58	17.65474 AU
opposition	-3263 Oct 26 j 17:02	8° ∩ 58'23	0°-33'-2	direct	-3255 Feb 09 j 13:50	8° ♁ 23'34	
min. Earth dist.	-3263 Oct 27 j 05:37	8° ∩ 57'02	18.09703 AU	max. Earth dist.	-3255 May 31 j 03:26	12° ♁ 43'41	19.62838 AU
direct	-3262 Jan 09 j 11:23	6° ∩ 56'16					
				conjunction	-3255 Jun 01 j 05:17	12° ♁ 47'38	0°-3'-55
conjunction	-3262 Apr 29 j 06:44	11° ∩ 09'42	0°-28'-17	minimum elong	-3255 Jun 01 j 05:17	12° ♁ 47'38	0°03'52
minimum elong	-3262 Apr 29 j 06:44	11° ∩ 09'42	0°28'17	behind sun begin	-3255 May 31 j 22:34	12° ♁ 46'38	
max. Earth dist.	-3262 Apr 28 j 14:41	11° ∩ 07'19	20.06223 AU	behind sun end	-3255 Jun 01 j 11:59	12° ♁ 48'38	
retrograde	-3262 Aug 17 j 15:57	15° ∩ 25'00			-3255 Jul 08 j 20:21	15° ♁	
opposition	-3262 Oct 31 j 06:10	13° ∩ 23'03	0°-29'-44	retrograde	-3255 Sep 18 j 09:09	17° ♁ 07'53	
min. Earth dist.	-3262 Oct 31 j 19:41	13° ∩ 21'36	18.02740 AU	opposition	-3255 Dec 01 j 00:19	15° ♁ 05'34	0°-2'-10
direct	-3261 Jan 14 j 02:48	11° ∩ 20'28		min. Earth dist.	-3255 Dec 01 j 22:49	15° ♁ 03'06	17.60305 AU
max. Earth dist.	-3261 May 03 j 11:03	15° ∩ 32'52	19.99297 AU		-3255 Dec 03 j 03:18	15° ♁	
				direct	-3254 Feb 14 j 10:53	13° ♁ 00'35	
conjunction	-3261 May 04 j 04:32	15° ∩ 35'28	0°-25'-13		-3254 Apr 25 j 11:16	15° ♁	
minimum elong	-3261 May 04 j 04:32	15° ∩ 35'28	0°25'12	max. Earth dist.	-3254 Jun 05 j 03:23	17° ♁ 21'40	19.57814 AU
retrograde	-3261 Aug 22 j 09:43	19° ∩ 51'31					
opposition	-3261 Nov 04 j 20:16	17° ∩ 49'27	0°-26'-14	conjunction	-3254 Jun 06 j 07:42	17° ♁ 26'00	0°00'00
min. Earth dist.	-3261 Nov 05 j 12:00	17° ∩ 47'45	17.95887 AU	minimum elong	-3254 Jun 06 j 07:41	17° ♁ 26'00	0°00'06
direct	-3260 Jan 18 j 17:42	15° ∩ 46'26		behind sun begin	-3254 Jun 06 j 01:09	17° ♁ 25'02	
max. Earth dist.	-3260 May 07 j 06:55	20° ∩ 00'00	19.92536 AU	behind sun end	-3254 Jun 06 j 14:13	17° ♁ 26'59	
				asc. node	-3254 Jun 06 j 09:41	17° ♁ 26'14	
conjunction	-3260 May 08 j 02:44	20° ∩ 02'58	0°-21'-59	retrograde	-3254 Sep 23 j 06:46	21° ♁ 46'50	
minimum elong	-3260 May 08 j 02:44	20° ∩ 02'58	0°21'58	opposition	-3254 Dec 05 j 19:52	19° ♁ 44'31	0°02'09
retrograde	-3260 Aug 26 j 04:33	24° ∩ 19'47		min. Earth dist.	-3254 Dec 06 j 19:35	19° ♁ 41'56	17.55438 AU
opposition	-3260 Nov 08 j 10:56	22° ∩ 17'35	0°-22'-33	direct	-3253 Feb 19 j 09:32	17° ♁ 39'16	
min. Earth dist.	-3260 Nov 09 j 03:22	22° ∩ 15'48	17.89235 AU	max. Earth dist.	-3253 Jun 10 j 06:26	22° ♁ 01'37	19.53082 AU
direct	-3259 Jan 22 j 10:39	20° ∩ 14'08					
max. Earth dist.	-3259 May 12 j 05:18	24° ∩ 29'08	19.85991 AU	conjunction	-3253 Jun 11 j 10:43	22° ♁ 05'59	0°03'58
				minimum elong	-3253 Jun 11 j 10:43	22° ♁ 05'59	0°04'03
conjunction	-3259 May 13 j 01:55	24° ∩ 32'14	0°-18'-36	behind sun begin	-3253 Jun 11 j 04:02	22° ♁ 04'58	
minimum elong	-3259 May 13 j 01:55	24° ∩ 32'14	0°18'34	behind sun end	-3253 Jun 11 j 17:24	22° ♁ 06'59	
retrograde	-3259 Aug 30 j 23:29	28° ∩ 49'47		retrograde	-3253 Sep 28 j 05:38	26° ♁ 27'18	
opposition	-3259 Nov 13 j 02:22	26° ∩ 47'29	0°-18'-43	opposition	-3253 Dec 10 j 16:19	24° ♁ 25'01	0°06'29
min. Earth dist.	-3259 Nov 13 j 20:35	26° ∩ 45'30	17.82828 AU	min. Earth dist.	-3253 Dec 11 j 16:39	24° ♁ 22'21	17.50853 AU
direct	-3258 Jan 27 j 03:22	24° ∩ 43'41		direct	-3252 Feb 24 j 08:52	22° ♁ 19'31	
max. Earth dist.	-3258 May 17 j 02:39	28° ∩ 59'49	19.79734 AU	max. Earth dist.	-3252 Jun 14 j 07:32	26° ♁ 42'41	19.48651 AU
conjunction	-3258 May 18 j 01:43	29° ∩ 03'18	0°-15'-5	conjunction	-3252 Jun 15 j 13:47	26° ♁ 47'22	0°07'50
minimum elong	-3258 May 18 j 01:43	29° ∩ 03'18	0°15'03	minimum elong	-3252 Jun 15 j 13:47	26° ♁ 47'22	0°07'55
behind sun begin	-3258 May 17 j 23:41	29° ∩ 03'00		behind sun begin	-3252 Jun 15 j 07:44	26° ♁ 46'27	
behind sun end	-3258 May 18 j 03:45	29° ∩ 03'36		behind sun end	-3252 Jun 15 j 19:49	26° ♁ 48'16	
	-3258 Jun 02 j 19:14	0° ♁			-3252 Aug 12 j 08:18	0° ♁	
retrograde	-3258 Sep 04 j 18:58	3° ♁ 21'35		retrograde	-3252 Oct 02 j 03:51	1° ♁ 09'08	
opposition	-3258 Nov 17 j 18:36	1° ♁ 19'13	0°-14'-44		-3252 Nov 23 j 14:10	30° ♁	
min. Earth dist.	-3258 Nov 18 j 13:33	1° ♁ 17'10	17.76727 AU	opposition	-3252 Dec 14 j 13:31	29° ♁ 06'50	0°10'47
	-3258 Dec 20 j 17:50	30° ♁		min. Earth dist.	-3252 Dec 15 j 15:03	29° ♁ 04'03	17.46598 AU

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Attention, astronomical year style is used: The year -3251 in astronomical counting style is the year 3252 BCE in historical counting style.

direct	-3251 Feb 28 j 08:40	27°♄01'05		retrograde	-3244 Nov 09 j 01:28	9°♄11'18	
	-3251 May 27 j 02:46	0°♄		opposition	-3243 Jan 21 j 11:36	7°♄09'15	0°40'38
max. Earth dist.	-3251 Jun 19 j 11:22	1°♄25'20	19.44564 AU	min. Earth dist.	-3243 Jan 22 j 11:25	7°♄06'39	17.29985 AU
				direct	-3243 Apr 08 j 03:01	5°♄02'37	
conjunction	-3251 Jun 20 j 17:25	1°♄29'59	0°11'40	conjunction	-3243 Jul 29 j 20:28	9°♄35'20	0°37'43
minimum elong	-3251 Jun 20 j 17:25	1°♄29'59	0°11'45	minimum elong	-3243 Jul 29 j 20:28	9°♄35'20	0°37'49
behind sun begin	-3251 Jun 20 j 12:44	1°♄29'17		max. Earth dist.	-3243 Jul 28 j 18:02	9°♄31'10	19.30219 AU
behind sun end	-3251 Jun 20 j 22:06	1°♄30'42		retrograde	-3243 Nov 14 j 02:35	13°♄57'56	
retrograde	-3251 Oct 07 j 03:50	5°♄52'07		opposition	-3242 Jan 26 j 13:11	11°♄56'02	0°43'23
opposition	-3251 Dec 19 j 11:12	3°♄49'49	0°15'03	min. Earth dist.	-3242 Jan 27 j 11:06	11°♄53'39	17.30689 AU
min. Earth dist.	-3251 Dec 20 j 12:48	3°♄47'01	17.42689 AU	direct	-3242 Apr 13 j 08:49	9°♄49'32	
direct	-3250 Mar 05 j 09:59	1°♄43'49					
conjunction	-3250 Jun 25 j 21:11	6°♄13'40	0°15'26	conjunction	-3242 Aug 03 j 22:53	14°♄22'08	0°40'02
minimum elong	-3250 Jun 25 j 21:11	6°♄13'40	0°15'31	minimum elong	-3242 Aug 03 j 22:53	14°♄22'08	0°40'09
behind sun begin	-3250 Jun 25 j 19:49	6°♄13'28		max. Earth dist.	-3242 Aug 02 j 22:52	14°♄18'21	19.31222 AU
behind sun end	-3250 Jun 25 j 22:33	6°♄13'53		retrograde	-3242 Nov 19 j 01:20	18°♄44'30	
max. Earth dist.	-3250 Jun 24 j 13:54	6°♄08'48	19.40851 AU	opposition	-3241 Jan 31 j 15:27	16°♄42'46	0°45'49
retrograde	-3250 Oct 12 j 02:18	10°♄36'06		min. Earth dist.	-3241 Feb 01 j 13:02	16°♄40'26	17.31976 AU
opposition	-3250 Dec 24 j 09:44	8°♄33'47	0°19'13	direct	-3241 Apr 18 j 12:20	14°♄36'27	
min. Earth dist.	-3250 Dec 25 j 12:27	8°♄30'52	17.39201 AU	max. Earth dist.	-3241 Aug 08 j 00:56	19°♄05'00	19.32789 AU
direct	-3249 Mar 10 j 10:21	6°♄27'33					
max. Earth dist.	-3249 Jun 29 j 18:06	10°♄53'24	19.37588 AU	conjunction	-3241 Aug 09 j 00:32	19°♄08'44	0°42'05
				minimum elong	-3241 Aug 09 j 00:31	19°♄08'44	0°42'12
conjunction	-3249 Jul 01 j 00:55	10°♄58'13	0°19'06	retrograde	-3241 Nov 24 j 02:00	23°♄30'50	
minimum elong	-3249 Jul 01 j 00:55	10°♄58'13	0°19'13	opposition	-3240 Feb 05 j 17:46	21°♄29'14	0°47'56
retrograde	-3249 Oct 17 j 03:27	15°♄20'52		min. Earth dist.	-3240 Feb 06 j 13:28	21°♄27'07	17.33806 AU
opposition	-3249 Dec 29 j 08:45	13°♄18'32	0°23'15	direct	-3240 Apr 22 j 17:20	19°♄23'06	
min. Earth dist.	-3249 Dec 30 j 10:45	13°♄15'42	17.36174 AU	max. Earth dist.	-3240 Aug 12 j 05:01	23°♄51'39	19.34862 AU
direct	-3248 Mar 14 j 13:20	11°♄12'07					
max. Earth dist.	-3248 Jul 03 j 21:45	15°♄38'38	19.34816 AU	conjunction	-3240 Aug 13 j 01:58	23°♄54'57	0°43'50
				minimum elong	-3240 Aug 13 j 01:58	23°♄54'57	0°43'56
conjunction	-3248 Jul 05 j 04:39	15°♄43'28	0°22'40	retrograde	-3240 Nov 28 j 01:20	28°♄16'39	
minimum elong	-3248 Jul 05 j 04:39	15°♄43'28	0°22'46	opposition	-3239 Feb 09 j 20:13	26°♄15'13	0°49'43
retrograde	-3248 Oct 21 j 01:49	20°♄06'15		min. Earth dist.	-3239 Feb 10 j 15:12	26°♄13'11	17.36109 AU
opposition	-3247 Jan 02 j 08:20	18°♄03'56	0°27'09	direct	-3239 Apr 27 j 20:57	24°♄09'17	
min. Earth dist.	-3247 Jan 03 j 11:08	18°♄01'00	17.33690 AU	max. Earth dist.	-3239 Aug 17 j 06:09	28°♄37'17	19.37395 AU
direct	-3247 Mar 19 j 13:55	15°♄57'20					
max. Earth dist.	-3247 Jul 09 j 01:52	20°♄24'28	19.32619 AU	conjunction	-3239 Aug 18 j 02:43	28°♄40'32	0°45'17
				minimum elong	-3239 Aug 18 j 02:43	28°♄40'32	0°45'23
conjunction	-3247 Jul 10 j 08:16	20°♄29'14	0°26'04	-3239 Sep 08 j 08:05	0°♄		
minimum elong	-3247 Jul 10 j 08:16	20°♄29'14	0°26'11	retrograde	-3239 Dec 03 j 01:30	3°♄01'48	
retrograde	-3247 Oct 26 j 03:27	24°♄52'06		opposition	-3238 Feb 14 j 22:47	1°♄00'29	0°51'09
opposition	-3246 Jan 07 j 08:23	22°♄49'48	0°30'51	min. Earth dist.	-3238 Feb 15 j 16:04	0°♄58'38	17.38860 AU
min. Earth dist.	-3246 Jan 08 j 09:49	22°♄47'01	17.31785 AU	-3238 Mar 11 j 12:21	30°♄R♄		
direct	-3246 Mar 24 j 17:57	20°♄43'06		direct	-3238 May 03 j 00:43	28°♄54'45	
max. Earth dist.	-3246 Jul 14 j 06:23	25°♄10'47	19.31018 AU	-3238 Jun 22 j 16:13	0°♄		
				max. Earth dist.	-3238 Aug 22 j 09:01	3°♄22'27	19.40351 AU
conjunction	-3246 Jul 15 j 11:46	25°♄15'25	0°29'18				
minimum elong	-3246 Jul 15 j 11:46	25°♄15'25	0°29'25	conjunction	-3238 Aug 23 j 02:50	3°♄25'16	0°46'25
retrograde	-3246 Oct 31 j 01:48	29°♄38'18		minimum elong	-3238 Aug 23 j 02:50	3°♄25'16	0°46'31
opposition	-3245 Jan 12 j 09:05	27°♄36'02	0°34'21	retrograde	-3238 Dec 08 j 00:52	7°♄45'59	
min. Earth dist.	-3245 Jan 13 j 10:50	27°♄33'13	17.30516 AU	opposition	-3237 Feb 20 j 01:25	5°♄44'47	0°52'14
direct	-3245 Mar 29 j 19:27	25°♄29'17		min. Earth dist.	-3237 Feb 20 j 17:17	5°♄43'06	17.42006 AU
max. Earth dist.	-3245 Jul 19 j 10:08	29°♄57'20	19.30087 AU	direct	-3237 May 08 j 04:40	3°♄39'18	
				max. Earth dist.	-3237 Aug 27 j 09:10	8°♄06'13	19.43704 AU
conjunction	-3245 Jul 20 j 14:57	0°♄01'52	0°32'20				
minimum elong	-3245 Jul 20 j 14:57	0°♄01'52	0°32'26	conjunction	-3237 Aug 28 j 02:09	8°♄08'54	0°47'14
	-3245 Jul 20 j 03:02	0°♄		minimum elong	-3237 Aug 28 j 02:09	8°♄08'54	0°47'19
retrograde	-3245 Nov 05 j 03:14	4°♄24'44		retrograde	-3237 Dec 12 j 23:49	12°♄29'03	
opposition	-3244 Jan 17 j 10:05	2°♄22'32	0°37'37	opposition	-3236 Feb 25 j 03:49	10°♄27'56	0°52'57
min. Earth dist.	-3244 Jan 18 j 09:55	2°♄19'57	17.29919 AU	min. Earth dist.	-3236 Feb 25 j 18:07	10°♄26'24	17.45561 AU
direct	-3244 Apr 03 j 00:36	0°♄15'49		direct	-3236 May 12 j 07:43	8°♄22'39	
				max. Earth dist.	-3236 Aug 31 j 10:27	12°♄48'59	19.47453 AU
conjunction	-3244 Jul 24 j 17:52	4°♄48'33	0°35'08				
minimum elong	-3244 Jul 24 j 17:52	4°♄48'33	0°35'15	conjunction	-3236 Sep 01 j 00:42	12°♄51'14	0°47'43
max. Earth dist.	-3244 Jul 23 j 15:00	4°♄44'19	19.29822 AU	minimum elong	-3236 Sep 01 j 00:42	12°♄51'14	0°47'48

Attention, astronomical year style is used: The year -3236 in astronomical counting style is the year 3237 BCE in historical counting style.

	-3236 Oct 06 j 12:30	15°♄		conjunction	-3228 Oct 07 j 04:15	19°♄30'28	0°40'42
retrograde	-3236 Dec 16 j 22:15	17°♄10'44		minimum elong	-3228 Oct 07 j 04:15	19°♄30'28	0°40'44
opposition	-3235 Mar 01 j 05:57	15°♄09'41	0°53'18	max. Earth dist.	-3228 Oct 07 j 08:05	19°♄31'03	19.91265 AU
min. Earth dist.	-3235 Mar 01 j 18:14	15°♄08'23	17.49485 AU	retrograde	-3227 Jan 22 j 10:52	23°♄44'00	
	-3235 Mar 05 j 01:14	15°♄		opposition	-3227 Apr 08 j 07:49	21°♄43'48	0°44'07
direct	-3235 May 17 j 11:43	13°♄04'39		min. Earth dist.	-3227 Apr 08 j 02:00	21°♄44'24	17.94610 AU
	-3235 Jul 25 j 02:26	15°♄		direct	-3227 Jun 24 j 14:56	19°♄41'46	
conjunction	-3235 Sep 05 j 22:18	17°♄32'05	0°47'53	conjunction	-3227 Oct 11 j 18:53	23°♄57'49	0°38'38
minimum elong	-3235 Sep 05 j 22:18	17°♄32'05	0°47'57	minimum elong	-3227 Oct 11 j 18:53	23°♄57'49	0°38'39
max. Earth dist.	-3235 Sep 05 j 09:26	17°♄30'04	19.51574 AU	max. Earth dist.	-3227 Oct 12 j 01:27	23°♄58'49	19.97989 AU
retrograde	-3235 Dec 21 j 19:33	21°♄50'54		retrograde	-3226 Jan 27 j 03:01	28°♄10'35	
opposition	-3234 Mar 06 j 07:48	19°♄49'53	0°53'18	opposition	-3226 Apr 13 j 05:46	26°♄10'33	0°41'40
min. Earth dist.	-3234 Mar 06 j 18:36	19°♄48'45	17.53807 AU	min. Earth dist.	-3226 Apr 12 j 23:01	26°♄11'15	18.01373 AU
direct	-3234 May 22 j 13:58	17°♄45'06		direct	-3226 Jun 29 j 10:07	24°♄08'59	
conjunction	-3234 Sep 10 j 19:03	22°♄11'18	0°47'44	conjunction	-3226 Oct 16 j 08:44	28°♄23'27	0°36'20
minimum elong	-3234 Sep 10 j 19:03	22°♄11'18	0°47'48	minimum elong	-3226 Oct 16 j 08:44	28°♄23'27	0°36'20
max. Earth dist.	-3234 Sep 10 j 08:57	22°♄09'43	19.56104 AU	max. Earth dist.	-3226 Oct 16 j 16:33	28°♄24'39	20.04778 AU
retrograde	-3234 Dec 26 j 16:47	26°♄29'23			-3226 Nov 12 j 05:54	0°♄	
opposition	-3233 Mar 11 j 09:19	24°♄28'25	0°52'56	retrograde	-3225 Jan 31 j 21:00	2°♄35'27	
min. Earth dist.	-3233 Mar 11 j 17:19	24°♄27'35	17.58528 AU	opposition	-3225 Apr 18 j 02:54	0°♄35'33	0°38'59
direct	-3233 May 27 j 17:28	22°♄23'55		min. Earth dist.	-3225 Apr 17 j 17:16	0°♄36'32	18.08162 AU
					-3225 May 02 j 19:13	30°♄	
conjunction	-3233 Sep 15 j 14:41	26°♄48'46	0°47'16	direct	-3225 Jul 04 j 06:42	28°♄34'25	
minimum elong	-3233 Sep 15 j 14:41	26°♄48'46	0°47'19		-3225 Sep 01 j 01:33	0°♄	
max. Earth dist.	-3233 Sep 15 j 06:44	26°♄47'32	19.61035 AU				
	-3233 Nov 11 j 16:18	0°♄		conjunction	-3225 Oct 20 j 21:52	2°♄47'20	0°33'50
retrograde	-3233 Dec 31 j 12:39	1°♄06'07		minimum elong	-3225 Oct 20 j 21:52	2°♄47'20	0°33'49
	-3232 Feb 21 j 21:27	30°♄		max. Earth dist.	-3225 Oct 21 j 08:21	2°♄48'56	20.11542 AU
opposition	-3232 Mar 15 j 10:26	29°♄05'13	0°52'15	retrograde	-3224 Feb 05 j 12:18	6°♄58'33	
min. Earth dist.	-3232 Mar 15 j 16:53	29°♄04'32	17.63676 AU	opposition	-3224 Apr 21 j 23:29	4°♄58'46	0°36'05
direct	-3232 May 31 j 18:10	27°♄01'01		min. Earth dist.	-3224 Apr 21 j 13:05	4°♄59'50	18.14895 AU
	-3232 Aug 27 j 11:32	0°♄		direct	-3224 Jul 08 j 00:32	2°♄58'03	
conjunction	-3232 Sep 19 j 09:34	1°♄24'30	0°46'30	conjunction	-3224 Oct 24 j 10:12	7°♄09'24	0°31'09
minimum elong	-3232 Sep 19 j 09:34	1°♄24'30	0°46'33	minimum elong	-3224 Oct 24 j 10:12	7°♄09'24	0°31'09
max. Earth dist.	-3232 Sep 19 j 04:11	1°♄23'39	19.66396 AU	max. Earth dist.	-3224 Oct 24 j 21:29	7°♄11'07	20.18231 AU
retrograde	-3231 Jan 04 j 08:50	5°♄41'04		retrograde	-3223 Feb 09 j 04:41	11°♄19'50	
opposition	-3231 Mar 20 j 10:47	3°♄40'16	0°51'13	opposition	-3223 Apr 26 j 19:05	9°♄20'07	0°33'00
min. Earth dist.	-3231 Mar 20 j 14:01	3°♄39'55	17.69227 AU	min. Earth dist.	-3223 Apr 26 j 06:10	9°♄21'26	18.21527 AU
direct	-3231 Jun 05 j 20:09	1°♄36'27		direct	-3223 Jul 12 j 19:37	7°♄19'46	
conjunction	-3231 Sep 24 j 03:35	5°♄58'29	0°45'27	conjunction	-3223 Oct 28 j 21:53	11°♄29'35	0°28'19
minimum elong	-3231 Sep 24 j 03:35	5°♄58'29	0°45'30	minimum elong	-3223 Oct 28 j 21:53	11°♄29'35	0°28'17
max. Earth dist.	-3231 Sep 24 j 00:42	5°♄58'03	19.72144 AU	max. Earth dist.	-3223 Oct 29 j 11:47	11°♄31'41	20.24795 AU
retrograde	-3230 Jan 09 j 03:24	10°♄14'18		retrograde	-3222 Feb 13 j 19:03	15°♄39'13	
opposition	-3230 Mar 25 j 10:59	8°♄13'37	0°49'53	opposition	-3222 May 01 j 14:13	13°♄39'34	0°29'45
min. Earth dist.	-3230 Mar 25 j 12:47	8°♄13'26	17.75164 AU	min. Earth dist.	-3222 May 01 j 00:27	13°♄40'58	18.28023 AU
direct	-3230 Jun 10 j 19:16	6°♄10'13		direct	-3222 Jul 17 j 12:46	11°♄39'34	
conjunction	-3230 Sep 28 j 20:34	10°♄30'48	0°44'08	conjunction	-3222 Nov 02 j 08:33	15°♄47'47	0°25'20
minimum elong	-3230 Sep 28 j 20:34	10°♄30'48	0°44'10	minimum elong	-3222 Nov 02 j 08:33	15°♄47'47	0°25'19
max. Earth dist.	-3230 Sep 28 j 19:58	10°♄30'42	19.78261 AU	max. Earth dist.	-3222 Nov 02 j 23:12	15°♄50'00	20.31230 AU
retrograde	-3229 Jan 13 j 22:50	14°♄45'51		retrograde	-3221 Feb 18 j 09:50	19°♄56'40	
opposition	-3229 Mar 30 j 10:30	12°♄45'20	0°48'15	opposition	-3221 May 06 j 08:24	17°♄57'01	0°26'21
min. Earth dist.	-3229 Mar 30 j 08:56	12°♄45'30	17.81422 AU	min. Earth dist.	-3221 May 05 j 16:19	17°♄58'39	18.34392 AU
direct	-3229 Jun 15 j 19:34	10°♄42'22		direct	-3221 Jul 22 j 05:54	15°♄57'20	
conjunction	-3229 Oct 03 j 12:51	15°♄01'27	0°42'33	conjunction	-3221 Nov 06 j 18:40	20°♄04'02	0°22'14
minimum elong	-3229 Oct 03 j 12:52	15°♄01'27	0°42'35	minimum elong	-3221 Nov 06 j 18:40	20°♄04'02	0°22'11
max. Earth dist.	-3229 Oct 03 j 15:00	15°♄01'47	19.84654 AU	max. Earth dist.	-3221 Nov 07 j 12:01	20°♄06'38	20.37527 AU
retrograde	-3228 Jan 18 j 16:11	19°♄15'45		retrograde	-3220 Feb 22 j 22:36	24°♄12'07	
opposition	-3228 Apr 03 j 09:29	17°♄15'24	0°46'19	min. Earth dist.	-3220 May 09 j 08:35	22°♄14'12	18.40630 AU
min. Earth dist.	-3228 Apr 03 j 06:48	17°♄15'40	17.87934 AU	opposition	-3220 May 10 j 01:38	22°♄12'28	0°22'51
direct	-3228 Jun 19 j 16:31	15°♄12'54		direct	-3220 Jul 25 j 22:04	20°♄13'06	

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Attention, astronomical year style is used: The year -3220 in astronomical counting style is the year 3221 BCE in historical counting style.

conjunction	-3220 Nov 10 j 03:54	24°♁18'18	0°19'02	behind sun begin	-3214 Dec 04 j 17:19	19°♁09'00	
minimum elong	-3220 Nov 10 j 03:54	24°♁18'18	0°18'59	behind sun end	-3214 Dec 05 j 06:24	19°♁10'52	
max. Earth dist.	-3220 Nov 10 j 21:54	24°♁21'00	20.43716 AU	max. Earth dist.	-3214 Dec 06 j 02:07	19°♁13'47	20.78162 AU
retrograde	-3219 Feb 26 j 11:47	28°♁25'40		retrograde	-3213 Mar 24 j 06:36	23°♁13'52	
opposition	-3219 May 14 j 18:10	26°♁26'01	0°19'15	min. Earth dist.	-3213 Jun 09 j 03:38	21°♁17'13	18.80683 AU
min. Earth dist.	-3219 May 13 j 22:55	26°♁27'57	18.46778 AU	opposition	-3213 Jun 10 j 06:00	21°♁14'35	0°-3'-16
direct	-3219 Jul 30 j 12:51	24°♁26'56		direct	-3213 Aug 25 j 11:39	19°♁17'25	
conjunction	-3219 Nov 14 j 12:29	28°♁30'43	0°15'46	conjunction	-3213 Dec 09 j 06:05	23°♁14'13	0°-4'-41
minimum elong	-3219 Nov 14 j 12:29	28°♁30'43	0°15'43	minimum elong	-3213 Dec 09 j 06:05	23°♁14'13	0°04'47
behind sun begin	-3219 Nov 14 j 10:42	28°♁30'27		behind sun begin	-3213 Dec 08 j 23:41	23°♁13'18	
behind sun end	-3219 Nov 14 j 14:16	28°♁30'58		behind sun end	-3213 Dec 09 j 12:28	23°♁15'07	
max. Earth dist.	-3219 Nov 15 j 09:17	28°♁33'49	20.49806 AU	max. Earth dist.	-3213 Dec 10 j 10:06	23°♁18'18	20.83060 AU
retrograde	-3219 Dec 10 j 00:04	0°♁		retrograde	-3212 Mar 27 j 15:33	27°♁17'44	
opposition	-3218 Mar 02 j 23:15	2°♁37'22		opposition	-3212 Jun 13 j 17:31	25°♁18'31	0°-7'00
min. Earth dist.	-3218 May 19 j 09:59	0°♁37'44	0°15'35	min. Earth dist.	-3212 Jun 12 j 14:38	25°♁21'12	18.85386 AU
direct	-3218 May 18 j 13:28	0°♁39'49	18.52824 AU	direct	-3212 Aug 28 j 21:32	23°♁21'38	
direct	-3218 Jun 04 j 06:49	30°♁		conjunction	-3212 Dec 12 j 11:53	27°♁17'32	0°-8'-2
direct	-3218 Aug 04 j 03:32	28°♁38'59		minimum elong	-3212 Dec 12 j 11:53	27°♁17'32	0°08'08
direct	-3218 Sep 30 j 10:39	0°♁		behind sun begin	-3212 Dec 12 j 06:03	27°♁16'43	
conjunction	-3218 Nov 18 j 20:27	2°♁41'23	0°12'26	behind sun end	-3212 Dec 12 j 17:44	27°♁18'22	
minimum elong	-3218 Nov 18 j 20:27	2°♁41'23	0°12'23	max. Earth dist.	-3212 Dec 13 j 15:18	27°♁21'32	20.87556 AU
behind sun begin	-3218 Nov 18 j 16:04	2°♁40'45			-3211 Feb 01 j 09:15	0°♁	
behind sun end	-3218 Nov 19 j 00:50	2°♁42'01		retrograde	-3211 Apr 01 j 01:43	1°♁20'42	
max. Earth dist.	-3218 Nov 19 j 17:47	2°♁44'33	20.55808 AU		-3211 Jun 01 j 20:28	30°♁	
retrograde	-3217 Mar 07 j 11:28	6°♁47'25		min. Earth dist.	-3211 Jun 17 j 01:45	29°♁24'14	18.89671 AU
min. Earth dist.	-3217 May 23 j 02:33	4°♁50'03	18.58782 AU	opposition	-3211 Jun 18 j 04:44	29°♁21'33	0°-10'-42
opposition	-3217 May 24 j 00:55	4°♁47'48	0°11'51	direct	-3211 Sep 02 j 05:25	27°♁24'53	
direct	-3217 Aug 08 j 15:56	2°♁49'22			-3211 Nov 23 j 08:35	0°♁	
conjunction	-3217 Nov 23 j 04:02	6°♁50'30	0°09'04	conjunction	-3211 Dec 16 j 17:34	1°♁19'59	0°-11'-20
minimum elong	-3217 Nov 23 j 04:02	6°♁50'30	0°09'01	minimum elong	-3211 Dec 16 j 17:34	1°♁19'59	0°11'27
behind sun begin	-3217 Nov 22 j 22:25	6°♁49'41		behind sun begin	-3211 Dec 16 j 12:46	1°♁19'18	
behind sun end	-3217 Nov 23 j 09:38	6°♁51'18		behind sun end	-3211 Dec 16 j 22:22	1°♁20'39	
max. Earth dist.	-3217 Nov 24 j 03:54	6°♁54'02	20.61693 AU	max. Earth dist.	-3211 Dec 17 j 22:23	1°♁24'10	20.91596 AU
retrograde	-3216 Mar 10 j 21:59	10°♁55'55		retrograde	-3210 Apr 05 j 10:33	5°♁22'48	
opposition	-3216 May 27 j 15:08	8°♁56'23	0°08'05	min. Earth dist.	-3210 Jun 21 j 11:59	3°♁26'24	18.93465 AU
min. Earth dist.	-3216 May 26 j 15:40	8°♁58'44	18.64589 AU	opposition	-3210 Jun 22 j 15:20	3°♁23'40	0°-14'-20
direct	-3216 Aug 12 j 04:44	6°♁58'16		direct	-3210 Sep 06 j 14:32	1°♁27'12	
conjunction	-3216 Nov 26 j 10:56	10°♁58'12	0°05'41	conjunction	-3210 Dec 20 j 23:03	5°♁21'32	0°-14'-34
minimum elong	-3216 Nov 26 j 10:56	10°♁58'12	0°05'36	minimum elong	-3210 Dec 20 j 23:03	5°♁21'32	0°14'40
behind sun begin	-3216 Nov 26 j 04:39	10°♁57'17		behind sun begin	-3210 Dec 20 j 20:10	5°♁21'08	
behind sun end	-3216 Nov 26 j 17:13	10°♁59'06		behind sun end	-3210 Dec 21 j 01:56	5°♁21'57	
max. Earth dist.	-3216 Nov 27 j 11:02	11°♁01'45	20.67414 AU	max. Earth dist.	-3210 Dec 22 j 02:53	5°♁25'34	20.95143 AU
retrograde	-3215 Mar 04 j 06:30	15°♁		retrograde	-3209 Apr 09 j 19:23	9°♁24'04	
retrograde	-3215 Mar 15 j 09:40	15°♁03'04		min. Earth dist.	-3209 Jun 25 j 22:21	7°♁27'36	18.96768 AU
	-3215 Mar 26 j 12:45	15°♁		opposition	-3209 Jun 27 j 01:18	7°♁24'55	0°-17'-52
min. Earth dist.	-3215 May 31 j 03:54	13°♁06'06	18.70217 AU	direct	-3209 Sep 10 j 21:10	5°♁28'34	
opposition	-3215 Jun 01 j 04:41	13°♁03'37	0°04'18	conjunction	-3209 Dec 25 j 04:30	9°♁22'14	0°-17'-43
direct	-3215 Aug 16 j 15:18	11°♁05'49		minimum elong	-3209 Dec 25 j 04:30	9°♁22'14	0°17'51
direct	-3215 Nov 29 j 10:09	15°♁		max. Earth dist.	-3209 Dec 26 j 09:26	9°♁26'25	20.98189 AU
conjunction	-3215 Nov 30 j 17:40	15°♁04'38	0°02'15	retrograde	-3208 Apr 13 j 03:49	13°♁24'29	
minimum elong	-3215 Nov 30 j 17:40	15°♁04'38	0°02'11	min. Earth dist.	-3208 Jun 29 j 07:25	11°♁28'01	18.99565 AU
behind sun begin	-3215 Nov 30 j 11:08	15°♁03'42		opposition	-3208 Jun 30 j 10:39	11°♁25'17	0°-21'-18
behind sun end	-3215 Dec 01 j 00:12	15°♁05'34		direct	-3208 Sep 14 j 05:20	9°♁29'02	
max. Earth dist.	-3215 Dec 01 j 20:02	15°♁08'30	20.72924 AU	conjunction	-3208 Dec 28 j 09:28	13°♁22'06	0°-20'-46
retrograde	-3214 Mar 19 j 19:19	19°♁09'00		minimum elong	-3208 Dec 28 j 09:28	13°♁22'06	0°20'53
opposition	-3214 Jun 05 j 17:38	17°♁09'38	0°00'30	max. Earth dist.	-3208 Dec 29 j 13:21	13°♁26'07	21.00755 AU
min. Earth dist.	-3214 Jun 04 j 15:56	17°♁12'13	18.75597 AU	retrograde	-3207 Apr 17 j 11:40	17°♁24'07	
desc. node	-3214 Jul 24 j 09:10	15°♁30'58		opposition	-3207 Jul 04 j 19:35	15°♁24'51	0°-24'-37
direct	-3214 Aug 21 j 02:29	15°♁12'11		min. Earth dist.	-3207 Jul 03 j 16:53	15°♁27'31	19.01916 AU
conjunction	-3214 Dec 04 j 23:51	19°♁09'56	0°-1'-15	direct	-3207 Sep 18 j 11:10	13°♁28'39	
minimum elong	-3214 Dec 04 j 23:51	19°♁09'56	0°01'22				

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Attention, astronomical year style is used: The year -3206 in astronomical counting style is the year 3207 BCE in historical counting style.

conjunction	-3206 Jan 01 j 14:36	17°♃21'12	0°-23'-43	conjunction	-3198 Feb 02 j 11:37	19°♃04'49	0°-42'-2
minimum elong	-3206 Jan 01 j 14:36	17°♃21'12	0°23'51	minimum elong	-3198 Feb 02 j 11:36	19°♃04'49	0°42'09
max. Earth dist.	-3206 Jan 02 j 19:39	17°♃25'22	21.02890 AU	max. Earth dist.	-3198 Feb 03 j 12:33	19°♃08'22	21.06207 AU
retrograde	-3206 Apr 21 j 19:41	21°♃23'01		retrograde	-3198 May 24 j 15:15	23°♃07'19	
min. Earth dist.	-3206 Jul 08 j 00:45	19°♃26'24	19.03850 AU	opposition	-3198 Aug 10 j 11:19	21°♃07'45	0°-47'-19
opposition	-3206 Jul 09 j 03:51	19°♃23'42	0°-27'-48	min. Earth dist.	-3198 Aug 09 j 13:33	21°♃09'57	19.05517 AU
direct	-3206 Sep 22 j 17:48	17°♃27'32		direct	-3198 Oct 24 j 08:24	19°♃11'32	
conjunction	-3205 Jan 05 j 19:31	21°♃19'39	0°-26'-32	conjunction	-3197 Feb 06 j 18:51	23°♃03'53	0°-43'-32
minimum elong	-3205 Jan 05 j 19:31	21°♃19'39	0°26'40	minimum elong	-3197 Feb 06 j 18:51	23°♃03'53	0°43'39
max. Earth dist.	-3205 Jan 06 j 23:25	21°♃23'39	21.04634 AU	max. Earth dist.	-3197 Feb 07 j 17:11	23°♃07'03	21.04606 AU
retrograde	-3205 Apr 26 j 03:31	25°♃21'22		retrograde	-3197 May 28 j 23:50	27°♃06'43	
min. Earth dist.	-3205 Jul 12 j 09:23	23°♃24'36	19.05416 AU	opposition	-3197 Aug 14 j 17:50	25°♃07'04	0°-48'-51
opposition	-3205 Jul 13 j 11:47	23°♃21'58	0°-30'-51	min. Earth dist.	-3197 Aug 13 j 22:20	25°♃09'02	19.03639 AU
direct	-3205 Sep 26 j 22:59	21°♃25'48		direct	-3197 Oct 28 j 12:08	23°♃10'42	
conjunction	-3204 Jan 10 j 00:41	25°♃17'37	0°-29'-13	conjunction	-3196 Feb 11 j 02:40	27°♃03'30	0°-44'-49
minimum elong	-3204 Jan 10 j 00:41	25°♃17'37	0°29'21	minimum elong	-3196 Feb 11 j 02:40	27°♃03'30	0°44'56
max. Earth dist.	-3204 Jan 11 j 05:33	25°♃21'45	21.06009 AU	max. Earth dist.	-3196 Feb 12 j 00:26	27°♃06'35	21.02447 AU
retrograde	-3204 Apr 29 j 11:28	29°♃19'15			-3196 Apr 08 j 19:07	0°≈	
opposition	-3204 Jul 16 j 19:05	27°♃19'49	0°-33'-44	retrograde	-3196 Jun 01 j 09:21	1°≈06'39	
min. Earth dist.	-3204 Jul 15 j 16:22	27°♃22'30	19.06608 AU		-3196 Jul 26 j 10:30	30°R♃	
direct	-3204 Sep 30 j 04:24	25°♃23'42		min. Earth dist.	-3196 Aug 17 j 05:22	29°♃08'49	19.01195 AU
				opposition	-3196 Aug 18 j 00:08	29°♃06'55	0°-50'-10
conjunction	-3203 Jan 13 j 05:44	29°♃15'17	0°-31'-45	direct	-3196 Oct 31 j 18:17	27°♃10'23	
minimum elong	-3203 Jan 13 j 05:44	29°♃15'17	0°31'53		-3195 Jan 26 j 15:02	0°≈	
max. Earth dist.	-3203 Jan 14 j 09:16	29°♃19'13	21.07029 AU				
	-3203 Jan 26 j 08:05	0°♃		conjunction	-3195 Feb 14 j 10:47	1°≈03'40	0°-45'-53
retrograde	-3203 May 03 j 19:25	3°♃16'56		minimum elong	-3195 Feb 14 j 10:47	1°≈03'40	0°45'59
min. Earth dist.	-3203 Jul 20 j 00:32	1°♃20'02	19.07457 AU	max. Earth dist.	-3195 Feb 15 j 05:46	1°≈06'22	20.99746 AU
opposition	-3203 Jul 21 j 02:21	1°♃17'26	0°-36'-28	retrograde	-3195 Jun 05 j 18:30	5°≈07'13	
	-3203 Aug 25 j 05:28	30°R♃		opposition	-3195 Aug 22 j 06:37	3°≈07'20	0°-51'-13
direct	-3203 Oct 04 j 08:45	29°♃21'20		min. Earth dist.	-3195 Aug 21 j 14:13	3°≈09'01	18.98240 AU
	-3203 Nov 12 j 10:16	0°♃		direct	-3195 Nov 04 j 22:37	1°≈10'35	
conjunction	-3202 Jan 17 j 11:03	3°♃12'49	0°-34'-9	conjunction	-3194 Feb 18 j 19:30	5°≈04'27	0°-46'-43
minimum elong	-3202 Jan 17 j 11:03	3°♃12'49	0°34'16	minimum elong	-3194 Feb 18 j 19:30	5°≈04'27	0°46'50
max. Earth dist.	-3202 Jan 18 j 15:23	3°♃16'51	21.07693 AU	max. Earth dist.	-3194 Feb 19 j 13:54	5°≈07'04	20.96553 AU
retrograde	-3202 May 08 j 04:03	7°♃14'31		retrograde	-3194 Jun 10 j 04:12	9°≈08'24	
min. Earth dist.	-3202 Jul 24 j 07:19	5°♃17'37	19.07927 AU	opposition	-3194 Aug 26 j 12:57	7°≈08'23	0°-52'-2
opposition	-3202 Jul 25 j 09:14	5°♃15'01	0°-39'-1	min. Earth dist.	-3194 Aug 25 j 21:16	7°≈09'59	18.94809 AU
direct	-3202 Oct 08 j 14:07	3°♃18'56		direct	-3194 Nov 09 j 04:44	5°≈11'23	
conjunction	-3201 Jan 21 j 16:36	7°♃10'23	0°-36'-23	conjunction	-3193 Feb 23 j 04:39	9°≈05'54	0°-47'-20
minimum elong	-3201 Jan 21 j 16:36	7°♃10'23	0°36'31	minimum elong	-3193 Feb 23 j 04:39	9°≈05'54	0°47'26
max. Earth dist.	-3201 Jan 22 j 19:18	7°♃14'11	21.07975 AU	max. Earth dist.	-3193 Feb 23 j 20:16	9°≈08'08	20.92915 AU
retrograde	-3201 May 12 j 12:03	11°♃12'12		retrograde	-3193 Jun 14 j 13:44	13°≈10'19	
opposition	-3201 Jul 29 j 15:54	9°♃12'41	0°-41'-23	opposition	-3193 Aug 30 j 19:21	11°≈10'08	0°-52'-35
min. Earth dist.	-3201 Jul 28 j 15:25	9°♃15'09	19.08013 AU	min. Earth dist.	-3193 Aug 30 j 06:06	11°≈11'30	18.90978 AU
direct	-3201 Oct 12 j 17:33	7°♃16'36		direct	-3193 Nov 13 j 09:36	9°≈12'51	
conjunction	-3200 Jan 25 j 22:37	11°♃08'09	0°-38'-27	conjunction	-3192 Feb 27 j 14:28	13°≈08'09	0°-47'-43
minimum elong	-3200 Jan 25 j 22:37	11°♃08'09	0°38'34	minimum elong	-3192 Feb 27 j 14:28	13°≈08'09	0°47'49
max. Earth dist.	-3200 Jan 27 j 01:41	11°♃12'01	21.07849 AU	max. Earth dist.	-3192 Feb 28 j 05:30	13°≈10'18	20.88907 AU
retrograde	-3200 May 15 j 21:24	15°♃10'09			-3192 Apr 01 j 10:10	15°≈	
opposition	-3200 Aug 01 j 22:25	13°♃10'38	0°-43'-34	retrograde	-3192 Jun 18 j 00:08	17°≈13'04	
min. Earth dist.	-3200 Jul 31 j 22:10	13°♃13'04	19.07661 AU	opposition	-3192 Sep 03 j 01:51	15°≈12'45	0°-52'-53
direct	-3200 Oct 15 j 23:12	11°♃14'32		min. Earth dist.	-3192 Sep 02 j 13:10	15°≈14'03	18.86797 AU
					-3192 Sep 08 j 05:50	15°R≈	
conjunction	-3199 Jan 29 j 04:43	15°♃06'15	0°-40'-20	direct	-3192 Nov 16 j 15:59	13°≈15'11	
minimum elong	-3199 Jan 29 j 04:42	15°♃06'15	0°40'28		-3191 Jan 21 j 15:48	15°≈	
max. Earth dist.	-3199 Jan 30 j 05:46	15°♃09'49	21.07272 AU				
retrograde	-3199 May 20 j 05:32	19°♃08'30		conjunction	-3191 Mar 03 j 00:32	17°≈11'19	0°-47'-52
min. Earth dist.	-3199 Aug 05 j 06:36	17°♃11'13	19.06849 AU	minimum elong	-3191 Mar 03 j 00:32	17°≈11'19	0°47'57
opposition	-3199 Aug 06 j 05:01	17°♃08'57	0°-45'-33	max. Earth dist.	-3191 Mar 03 j 12:57	17°≈13'05	20.84576 AU
direct	-3199 Oct 20 j 02:24	15°♃12'49		retrograde	-3191 Jun 22 j 09:54	21°≈16'48	
				opposition	-3191 Sep 07 j 08:42	19°≈16'20	0°-52'-56

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Attention, astronomical year style is used: The year -3191 in astronomical counting style is the year 3192 BCE in historical counting style.

min. Earth dist.	-3191 Sep 06 j 22:25	19°≈17'24	18.82328 AU	min. Earth dist.	-3183 Oct 10 j 08:56	22°≈36'37	18.37742 AU
direct	-3191 Nov 20 j 21:24	17°≈18'29		direct	-3183 Dec 23 j 17:32	20°≈36'47	
conjunction	-3190 Mar 07 j 11:37	21°≈15'34	0°-47'-46	conjunction	-3182 Apr 11 j 09:01	24°≈44'01	0°-38'-15
minimum elong	-3190 Mar 07 j 11:38	21°≈15'34	0°47'51	minimum elong	-3182 Apr 11 j 09:01	24°≈44'01	0°38'17
max. Earth dist.	-3190 Mar 07 j 23:21	21°≈17'14	20.79976 AU	max. Earth dist.	-3182 Apr 11 j 02:34	24°≈43'04	20.34413 AU
retrograde	-3190 Jun 26 j 21:36	25°≈21'39		retrograde	-3182 Jul 31 j 06:53	28°≈56'04	
opposition	-3190 Sep 11 j 15:31	23°≈21'03	0°-52'-42	opposition	-3182 Oct 14 j 14:51	26°≈54'44	0°-41'-10
min. Earth dist.	-3190 Sep 11 j 05:53	23°≈22'03	18.77595 AU	min. Earth dist.	-3182 Oct 14 j 20:42	26°≈54'07	18.31014 AU
direct	-3190 Nov 25 j 04:39	21°≈22'56		direct	-3182 Dec 28 j 06:31	24°≈53'58	
conjunction	-3189 Mar 11 j 23:19	25°≈21'02	0°-47'-26	conjunction	-3181 Apr 16 j 03:36	29°≈02'39	0°-35'-58
minimum elong	-3189 Mar 11 j 23:19	25°≈21'02	0°47'31	minimum elong	-3181 Apr 16 j 03:36	29°≈02'39	0°35'59
max. Earth dist.	-3189 Mar 12 j 08:15	25°≈22'19	20.75126 AU	max. Earth dist.	-3181 Apr 15 j 18:19	29°≈01'18	20.27591 AU
retrograde	-3189 Jul 01 j 07:45	29°≈27'47			-3181 May 02 j 12:34	0°≈	
opposition	-3189 Sep 15 j 22:54	27°≈27'05	0°-52'-13	retrograde	-3181 Aug 04 j 21:22	3°≈15'29	
min. Earth dist.	-3189 Sep 15 j 15:48	27°≈27'50	18.72632 AU	opposition	-3181 Oct 19 j 02:20	1°≈13'59	0°-38'-32
direct	-3189 Nov 29 j 10:30	25°≈28'41		min. Earth dist.	-3181 Oct 19 j 11:06	1°≈13'03	18.24124 AU
conjunction	-3188 Mar 15 j 11:44	29°≈27'54	0°-46'-52	direct	-3181 Nov 19 j 04:44	30°≈	
minimum elong	-3188 Mar 15 j 11:44	29°≈27'54	0°46'56		-3180 Jan 01 j 17:51	29°≈12'46	
max. Earth dist.	-3188 Mar 15 j 19:48	29°≈29'03	20.70056 AU		-3180 Feb 13 j 15:20	0°≈	
retrograde	-3188 Mar 24 j 19:09	0°≈		conjunction	-3180 Apr 19 j 22:46	3°≈22'56	0°-33'-28
opposition	-3188 Jul 04 j 20:42	3°≈35'20		minimum elong	-3180 Apr 19 j 22:46	3°≈22'56	0°33'30
min. Earth dist.	-3188 Sep 19 j 06:29	1°≈34'34	0°-51'-27	max. Earth dist.	-3180 Apr 19 j 11:30	3°≈21'16	20.20657 AU
direct	-3188 Dec 02 j 19:11	29°≈35'54		retrograde	-3180 Aug 08 j 14:55	7°≈36'33	
conjunction	-3187 Mar 20 j 00:58	3°≈36'18	0°-46'-2	opposition	-3180 Oct 22 j 14:13	5°≈34'52	0°-35'-40
minimum elong	-3187 Mar 20 j 00:58	3°≈36'18	0°46'07	min. Earth dist.	-3180 Oct 22 j 23:51	5°≈33'50	18.17156 AU
max. Earth dist.	-3187 Mar 20 j 06:09	3°≈37'03	20.64762 AU	direct	-3179 Jan 05 j 08:25	3°≈33'11	
retrograde	-3187 Jul 09 j 07:34	7°≈44'29		conjunction	-3179 Apr 24 j 18:51	7°≈44'52	0°-30'-47
opposition	-3187 Sep 23 j 14:37	5°≈43'39	0°-50'-25	minimum elong	-3179 Apr 24 j 18:52	7°≈44'52	0°30'47
min. Earth dist.	-3187 Sep 23 j 11:01	5°≈44'01	18.62038 AU	max. Earth dist.	-3179 Apr 24 j 05:24	7°≈42'52	20.13673 AU
direct	-3187 Dec 07 j 01:41	3°≈44'41		retrograde	-3179 Aug 13 j 06:18	11°≈59'15	
conjunction	-3186 Mar 24 j 15:14	7°≈46'22	0°-44'-59	opposition	-3179 Oct 27 j 02:46	9°≈57'24	0°-32'-35
minimum elong	-3186 Mar 24 j 15:14	7°≈46'22	0°45'02	min. Earth dist.	-3179 Oct 27 j 15:04	9°≈56'05	18.10188 AU
max. Earth dist.	-3186 Mar 24 j 19:05	7°≈46'55	20.59244 AU	direct	-3178 Jan 09 j 21:02	7°≈55'15	
retrograde	-3186 Jul 13 j 21:53	11°≈55'18		conjunction	-3178 Apr 29 j 15:44	12°≈08'29	0°-27'-53
opposition	-3186 Sep 27 j 23:06	9°≈54'24	0°-49'-7	minimum elong	-3178 Apr 29 j 15:44	12°≈08'29	0°27'53
min. Earth dist.	-3186 Sep 27 j 20:31	9°≈54'41	18.56383 AU	max. Earth dist.	-3178 Apr 29 j 00:09	12°≈06'10	20.06739 AU
direct	-3186 Dec 11 j 12:02	7°≈55'10		retrograde	-3178 Aug 18 j 01:09	16°≈23'38	
conjunction	-3185 Mar 29 j 06:20	11°≈58'10	0°-43'-40	opposition	-3178 Oct 31 j 15:55	14°≈21'38	0°-29'-16
minimum elong	-3185 Mar 29 j 06:21	11°≈58'10	0°43'43	min. Earth dist.	-3178 Nov 01 j 04:57	14°≈20'14	18.03298 AU
max. Earth dist.	-3185 Mar 29 j 07:01	11°≈58'16	20.53450 AU	direct	-3177 Jan 14 j 13:07	12°≈19'02	
retrograde	-3185 Jul 18 j 09:46	16°≈07'53		conjunction	-3177 May 04 j 13:19	16°≈33'49	0°-24'-49
opposition	-3185 Oct 02 j 08:14	14°≈06'55	0°-47'-32	minimum elong	-3177 May 04 j 13:19	16°≈33'49	0°24'48
min. Earth dist.	-3185 Oct 02 j 08:44	14°≈06'52	18.50453 AU	max. Earth dist.	-3177 May 03 j 20:10	16°≈31'16	19.99900 AU
direct	-3185 Dec 15 j 20:02	12°≈07'20		retrograde	-3177 Aug 22 j 17:47	20°≈49'44	
conjunction	-3184 Apr 01 j 22:25	16°≈11'44	0°-42'-6	opposition	-3177 Nov 05 j 05:54	18°≈47'38	0°-25'-46
minimum elong	-3184 Apr 01 j 22:25	16°≈11'44	0°42'08	min. Earth dist.	-3177 Nov 05 j 21:12	18°≈45'59	17.96548 AU
max. Earth dist.	-3184 Apr 01 j 21:15	16°≈11'34	20.47384 AU	direct	-3176 Jan 19 j 03:26	16°≈44'37	
retrograde	-3184 Jul 22 j 01:12	20°≈22'14		conjunction	-3176 May 08 j 11:33	21°≈00'57	0°-21'-34
opposition	-3184 Oct 05 j 17:51	18°≈21'10	0°-45'-40	minimum elong	-3176 May 08 j 11:33	21°≈00'57	0°21'33
min. Earth dist.	-3184 Oct 05 j 19:27	18°≈21'00	18.44237 AU	max. Earth dist.	-3176 May 07 j 16:17	20°≈58'04	19.93255 AU
direct	-3184 Dec 19 j 07:39	16°≈21'14		retrograde	-3176 Aug 26 j 13:40	25°≈17'39	
conjunction	-3183 Apr 06 j 15:10	20°≈27'01	0°-40'-17	opposition	-3176 Nov 08 j 20:28	23°≈15'27	0°-22'-6
minimum elong	-3183 Apr 06 j 15:10	20°≈27'01	0°40'19	min. Earth dist.	-3176 Nov 09 j 12:20	23°≈13'43	17.90018 AU
max. Earth dist.	-3183 Apr 06 j 10:51	20°≈26'24	20.41023 AU	direct	-3175 Jan 22 j 20:40	21°≈12'03	
retrograde	-3183 Jul 26 j 14:31	24°≈38'19		conjunction	-3175 May 13 j 10:38	25°≈29'58	0°-18'-11
opposition	-3183 Oct 10 j 04:14	22°≈37'07	0°-43'-33	minimum elong	-3175 May 13 j 10:38	25°≈29'58	0°18'10
				max. Earth dist.	-3175 May 12 j 14:24	25°≈26'56	19.86837 AU
				retrograde	-3175 Aug 31 j 08:00	29°≈47'25	
				opposition	-3175 Nov 13 j 12:01	27°≈45'10	0°-18'-16

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Attention, astronomical year style is used: The year -3175 in astronomical counting style is the year 3176 BCE in historical counting style.

min. Earth dist.	-3175 Nov 14 j 05:51	27° Υ 43'14	17.83729 AU	conjunction	-3168 Jun 15 j 22:37	27° Υ 45'27	0°08'12
direct	-3174 Jan 27 j 12:48	25° Υ 41'26		minimum elong	-3168 Jun 15 j 22:38	27° Υ 45'27	0°08'17
max. Earth dist.	-3174 May 17 j 11:54	29° Υ 57'31	19.80688 AU	behind sun begin	-3168 Jun 15 j 16:41	27° Υ 44'33	
				behind sun end	-3168 Jun 16 j 04:35	27° Υ 46'21	
conjunction	-3174 May 18 j 10:25	0° Υ 00'55	0°-14'-40	max. Earth dist.	-3168 Jun 14 j 16:15	27° Υ 40'45	19.49261 AU
minimum elong	-3174 May 18 j 10:25	0° Υ 00'55	0°14'37		-3168 Jul 23 j 19:40	0° Υ	
behind sun begin	-3174 May 18 j 07:51	0° Υ 00'32		retrograde	-3168 Oct 02 j 12:57	2° Υ 07'11	
behind sun end	-3174 May 18 j 13:00	0° Υ 01'18		opposition	-3168 Dec 14 j 22:47	0° Υ 04'54	0°11'12
	-3174 May 18 j 04:18	0° Υ		min. Earth dist.	-3168 Dec 16 j 00:25	0° Υ 02'06	17.47147 AU
retrograde	-3174 Sep 05 j 04:54	4° Υ 19'07			-3168 Dec 16 j 19:42	30° Υ	
opposition	-3174 Nov 18 j 04:07	2° Υ 16'51	0°-14'-17	direct	-3167 Feb 28 j 17:54	27° Υ 59'11	
min. Earth dist.	-3174 Nov 18 j 22:41	2° Υ 14'50	17.77719 AU		-3167 May 10 j 01:48	0° Υ	
direct	-3173 Feb 01 j 07:28	0° Υ 12'49		max. Earth dist.	-3167 Jun 19 j 20:10	2° Υ 23'20	19.45059 AU
conjunction	-3173 May 23 j 11:04	4° Υ 33'52	0°-11'-2	conjunction	-3167 Jun 21 j 02:12	2° Υ 27'59	0°12'01
minimum elong	-3173 May 23 j 11:04	4° Υ 33'52	0°10'59	minimum elong	-3167 Jun 21 j 02:12	2° Υ 27'59	0°12'06
behind sun begin	-3173 May 23 j 06:02	4° Υ 33'07		behind sun begin	-3167 Jun 20 j 21:42	2° Υ 27'18	
behind sun end	-3173 May 23 j 16:06	4° Υ 34'36		behind sun end	-3167 Jun 21 j 06:42	2° Υ 28'40	
max. Earth dist.	-3173 May 22 j 12:01	4° Υ 30'22	19.74804 AU	retrograde	-3167 Oct 07 j 12:25	6° Υ 50'03	
retrograde	-3173 Sep 10 j 00:41	8° Υ 52'47		opposition	-3167 Dec 19 j 20:27	4° Υ 47'45	0°15'25
opposition	-3173 Nov 22 j 21:17	6° Υ 50'32	0°-10'-10	min. Earth dist.	-3167 Dec 20 j 22:14	4° Υ 44'56	17.43136 AU
min. Earth dist.	-3173 Nov 23 j 17:35	6° Υ 48'19	17.71970 AU	direct	-3166 Mar 05 j 19:13	2° Υ 41'46	
direct	-3172 Feb 06 j 01:51	4° Υ 46'14		max. Earth dist.	-3166 Jun 24 j 22:27	7° Υ 06'37	19.41259 AU
max. Earth dist.	-3172 May 26 j 10:38	9° Υ 04'52	19.69190 AU				
conjunction	-3172 May 27 j 12:05	9° Υ 08'45	0°-7'-18	conjunction	-3166 Jun 26 j 05:47	7° Υ 11'30	0°15'45
minimum elong	-3172 May 27 j 12:05	9° Υ 08'45	0°07'16	minimum elong	-3166 Jun 26 j 05:46	7° Υ 11'30	0°15'52
behind sun begin	-3172 May 27 j 05:53	9° Υ 07'50		retrograde	-3166 Oct 12 j 11:18	11° Υ 33'50	
behind sun end	-3172 May 27 j 18:18	9° Υ 09'40		opposition	-3166 Dec 24 j 18:46	9° Υ 31'30	0°19'34
retrograde	-3172 Sep 13 j 22:06	13° Υ 28'23		min. Earth dist.	-3166 Dec 25 j 21:26	9° Υ 28'35	17.39578 AU
opposition	-3172 Nov 26 j 15:11	11° Υ 26'08	0°-5'-58	direct	-3165 Mar 10 j 19:55	7° Υ 25'16	
min. Earth dist.	-3172 Nov 27 j 12:24	11° Υ 23'50	17.66489 AU	max. Earth dist.	-3165 Jun 30 j 02:50	11° Υ 51'01	19.37946 AU
direct	-3171 Feb 09 j 22:12	9° Υ 21'33					
conjunction	-3171 Jun 01 j 14:07	13° Υ 45'32	0°-3'-31	conjunction	-3165 Jul 01 j 09:28	11° Υ 55'47	0°19'24
minimum elong	-3171 Jun 01 j 14:07	13° Υ 45'32	0°03'26	minimum elong	-3165 Jul 01 j 09:27	11° Υ 55'47	0°19'30
behind sun begin	-3171 Jun 01 j 07:23	13° Υ 44'32		retrograde	-3165 Oct 17 j 11:27	16° Υ 18'20	
behind sun end	-3171 Jun 01 j 20:52	13° Υ 46'32		opposition	-3165 Dec 29 j 17:39	14° Υ 15'59	0°23'34
max. Earth dist.	-3171 May 31 j 12:19	13° Υ 41'36	19.63818 AU	min. Earth dist.	-3165 Dec 30 j 19:37	14° Υ 13'08	17.36525 AU
	-3171 Jun 22 j 02:42	15° Υ		direct	-3164 Mar 14 j 21:51	12° Υ 09'32	
retrograde	-3171 Sep 18 j 19:10	18° Υ 05'47		max. Earth dist.	-3164 Jul 04 j 06:07	16° Υ 35'54	19.35166 AU
opposition	-3171 Dec 01 j 09:53	16° Υ 03'33	0°-1'-42	conjunction	-3164 Jul 05 j 12:57	16° Υ 40'43	0°22'55
min. Earth dist.	-3171 Dec 02 j 08:36	16° Υ 01'05	17.61239 AU	minimum elong	-3164 Jul 05 j 12:56	16° Υ 40'43	0°23'02
	-3171 Dec 26 j 21:56	15° Υ		retrograde	-3164 Oct 21 j 10:48	21° Υ 03'25	
direct	-3170 Feb 14 j 19:39	13° Υ 58'42		opposition	-3163 Jan 02 j 17:09	19° Υ 01'02	0°27'25
	-3170 Apr 04 j 19:23	15° Υ		min. Earth dist.	-3163 Jan 03 j 19:42	18° Υ 58'08	17.34048 AU
asc. node	-3170 Apr 28 j 13:30	16° Υ 06'36		direct	-3163 Mar 19 j 23:10	16° Υ 54'25	
				max. Earth dist.	-3163 Jul 09 j 10:26	21° Υ 21'26	19.32991 AU
conjunction	-3170 Jun 06 j 16:34	18° Υ 24'02	0°00'26	conjunction	-3163 Jul 10 j 16:29	21° Υ 26'09	0°26'18
minimum elong	-3170 Jun 06 j 16:35	18° Υ 24'02	0°00'30	minimum elong	-3163 Jul 10 j 16:29	21° Υ 26'09	0°26'24
behind sun begin	-3170 Jun 06 j 09:49	18° Υ 23'01		retrograde	-3163 Oct 26 j 11:11	25° Υ 48'55	
behind sun end	-3170 Jun 06 j 23:21	18° Υ 25'03		opposition	-3162 Jan 07 j 17:01	23° Υ 46'34	0°31'06
max. Earth dist.	-3170 Jun 05 j 12:13	18° Υ 19'41	19.58691 AU	min. Earth dist.	-3162 Jan 08 j 18:12	23° Υ 43'49	17.32181 AU
retrograde	-3170 Sep 23 j 16:41	22° Υ 44'51		direct	-3162 Mar 25 j 02:25	21° Υ 39'51	
opposition	-3170 Dec 06 j 05:30	20° Υ 42'37	0°02'36				
min. Earth dist.	-3170 Dec 07 j 05:15	20° Υ 40'01	17.56250 AU	conjunction	-3162 Jul 15 j 19:57	26° Υ 12'01	0°29'29
direct	-3169 Feb 19 j 18:04	18° Υ 37'28		minimum elong	-3162 Jul 15 j 19:57	26° Υ 12'01	0°29'35
				max. Earth dist.	-3162 Jul 14 j 14:41	26° Υ 07'25	19.31444 AU
					-3162 Sep 26 j 03:19	0° Υ	
conjunction	-3169 Jun 11 j 19:28	23° Υ 04'04	0°04'21	retrograde	-3162 Oct 31 j 10:19	0° Υ 34'48	
minimum elong	-3169 Jun 11 j 19:28	23° Υ 04'04	0°04'26		-3162 Dec 06 j 11:11	30° Υ	
behind sun begin	-3169 Jun 11 j 12:49	23° Υ 03'04		opposition	-3161 Jan 12 j 17:39	28° Υ 32'31	0°34'33
behind sun end	-3169 Jun 12 j 02:07	23° Υ 05'04		min. Earth dist.	-3161 Jan 13 j 19:06	28° Υ 29'44	17.30972 AU
max. Earth dist.	-3169 Jun 10 j 15:10	22° Υ 59'42	19.53825 AU	direct	-3161 Mar 30 j 04:23	26° Υ 25'46	
retrograde	-3169 Sep 28 j 14:56	27° Υ 25'22			-3161 Jul 05 j 10:50	0° Υ	
opposition	-3169 Dec 11 j 01:51	25° Υ 23'07	0°06'54				
min. Earth dist.	-3169 Dec 12 j 02:26	25° Υ 20'26	17.51527 AU	conjunction	-3161 Jul 20 j 22:58	0° Υ 58'12	0°32'29
direct	-3168 Feb 24 j 18:04	23° Υ 17'42					

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Attention, astronomical year style is used: The year -3161 in astronomical counting style is the year 3162 BCE in historical counting style.

minimum elong	-3161 Jul 20 j 22:58	0° \mathfrak{E} 58'12	0°32'36	minimum elong	-3153 Aug 28 j 10:16	9° \mathfrak{Q} 03'55	0°47'12
max. Earth dist.	-3161 Jul 19 j 18:30	0° \mathfrak{E} 53'43	19.30570 AU	max. Earth dist.	-3153 Aug 27 j 16:46	9° \mathfrak{Q} 01'09	19.43303 AU
retrograde	-3161 Nov 05 j 11:01	5° \mathfrak{E} 20'58		retrograde	-3153 Dec 13 j 07:20	13° \mathfrak{Q} 24'05	
opposition	-3160 Jan 17 j 18:31	3° \mathfrak{E} 18'47	0°37'47	opposition	-3152 Feb 25 j 11:44	11° \mathfrak{Q} 22'52	0°52'48
min. Earth dist.	-3160 Jan 18 j 18:09	3° \mathfrak{E} 16'13	17.30417 AU	min. Earth dist.	-3152 Feb 26 j 02:14	11° \mathfrak{Q} 21'20	17.45092 AU
direct	-3160 Apr 03 j 08:44	1° \mathfrak{E} 12'05		direct	-3152 May 12 j 15:54	9° \mathfrak{Q} 17'30	
max. Earth dist.	-3160 Jul 23 j 23:08	5° \mathfrak{E} 40'27	19.30331 AU				
				conjunction	-3152 Sep 01 j 08:49	13° \mathfrak{Q} 46'08	0°47'34
conjunction	-3160 Jul 25 j 02:01	5° \mathfrak{E} 44'41	0°35'17	minimum elong	-3152 Sep 01 j 08:49	13° \mathfrak{Q} 46'07	0°47'38
minimum elong	-3160 Jul 25 j 02:01	5° \mathfrak{E} 44'41	0°35'22	max. Earth dist.	-3152 Aug 31 j 18:16	13° \mathfrak{Q} 43'50	19.46932 AU
retrograde	-3160 Nov 09 j 10:10	10° \mathfrak{E} 07'21			-3152 Sep 21 j 03:05	15° \mathfrak{Q}	
opposition	-3159 Jan 21 j 19:50	8° \mathfrak{E} 05'19	0°40'46	retrograde	-3152 Dec 17 j 06:05	18° \mathfrak{Q} 05'38	
min. Earth dist.	-3159 Jan 22 j 19:41	8° \mathfrak{E} 02'43	17.30489 AU	opposition	-3151 Mar 01 j 13:39	16° \mathfrak{Q} 04'30	0°53'07
direct	-3159 Apr 08 j 11:28	5° \mathfrak{E} 58'41		min. Earth dist.	-3151 Mar 02 j 02:18	16° \mathfrak{Q} 03'10	17.48923 AU
max. Earth dist.	-3159 Jul 29 j 02:12	10° \mathfrak{E} 27'09	19.30707 AU		-3151 Mar 28 j 04:15	15° \mathfrak{R} \mathfrak{Q}	
				direct	-3151 May 17 j 19:34	13° \mathfrak{Q} 59'22	
conjunction	-3159 Jul 30 j 04:40	10° \mathfrak{E} 31'20	0°37'49		-3151 Jul 05 j 15:17	15° \mathfrak{Q}	
minimum elong	-3159 Jul 30 j 04:40	10° \mathfrak{E} 31'20	0°37'56	conjunction	-3151 Sep 06 j 06:22	18° \mathfrak{Q} 26'52	0°47'42
retrograde	-3159 Nov 14 j 10:56	14° \mathfrak{E} 53'51		minimum elong	-3151 Sep 06 j 06:22	18° \mathfrak{Q} 26'52	0°47'46
opposition	-3158 Jan 26 j 21:30	12° \mathfrak{E} 51'57	0°43'28	max. Earth dist.	-3151 Sep 05 j 17:13	18° \mathfrak{Q} 24'48	19.50994 AU
min. Earth dist.	-3158 Jan 27 j 19:28	12° \mathfrak{E} 49'34	17.31143 AU	retrograde	-3151 Dec 22 j 03:13	22° \mathfrak{Q} 45'43	
direct	-3158 Apr 13 j 16:32	10° \mathfrak{E} 45'28		opposition	-3150 Mar 06 j 15:29	20° \mathfrak{Q} 44'38	0°53'05
max. Earth dist.	-3158 Aug 03 j 06:43	15° \mathfrak{E} 14'09	19.31627 AU	min. Earth dist.	-3150 Mar 07 j 02:17	20° \mathfrak{Q} 43'30	17.53220 AU
				direct	-3150 May 22 j 21:03	18° \mathfrak{Q} 39'46	
conjunction	-3158 Aug 04 j 07:00	15° \mathfrak{E} 17'59	0°40'06				
minimum elong	-3158 Aug 04 j 07:00	15° \mathfrak{E} 17'59	0°40'13	conjunction	-3150 Sep 11 j 02:58	23° \mathfrak{Q} 06'03	0°47'31
retrograde	-3158 Nov 19 j 10:09	19° \mathfrak{E} 40'17		minimum elong	-3150 Sep 11 j 02:58	23° \mathfrak{Q} 06'03	0°47'34
opposition	-3157 Jan 31 j 23:45	17° \mathfrak{E} 38'32	0°45'52	max. Earth dist.	-3150 Sep 10 j 16:58	23° \mathfrak{Q} 04'29	19.55524 AU
min. Earth dist.	-3157 Feb 01 j 21:35	17° \mathfrak{E} 36'11	17.32326 AU	retrograde	-3150 Dec 27 j 01:26	27° \mathfrak{Q} 24'11	
direct	-3157 Apr 18 j 20:05	15° \mathfrak{E} 32'13		opposition	-3149 Mar 11 j 16:56	25° \mathfrak{Q} 23'10	0°52'42
max. Earth dist.	-3157 Aug 08 j 08:50	20° \mathfrak{E} 00'39	19.33067 AU	min. Earth dist.	-3149 Mar 12 j 01:00	25° \mathfrak{Q} 22'19	17.57973 AU
				direct	-3149 May 28 j 00:37	23° \mathfrak{Q} 18'37	
conjunction	-3157 Aug 09 j 08:49	20° \mathfrak{E} 04'26	0°42'07				
minimum elong	-3157 Aug 09 j 08:48	20° \mathfrak{E} 04'26	0°42'12	conjunction	-3149 Sep 15 j 22:43	27° \mathfrak{Q} 43'35	0°47'02
retrograde	-3157 Nov 24 j 10:42	24° \mathfrak{E} 26'28		minimum elong	-3149 Sep 15 j 22:43	27° \mathfrak{Q} 43'35	0°47'06
opposition	-3156 Feb 06 j 01:56	22° \mathfrak{E} 24'51	0°47'57	max. Earth dist.	-3149 Sep 15 j 14:42	27° \mathfrak{Q} 42'20	19.60516 AU
min. Earth dist.	-3156 Feb 06 j 21:52	22° \mathfrak{E} 22'42	17.34010 AU		-3149 Oct 24 j 01:21	0° \mathfrak{R} \mathfrak{Q}	
direct	-3156 Apr 23 j 01:18	20° \mathfrak{E} 18'41		retrograde	-3149 Dec 31 j 20:33	2° \mathfrak{R} 01'00	
				opposition	-3148 Mar 15 j 17:51	0° \mathfrak{R} 00'05	0°51'58
conjunction	-3156 Aug 13 j 10:14	24° \mathfrak{E} 50'29	0°43'50		-3148 Mar 15 j 18:43	30° \mathfrak{R} \mathfrak{Q}	
minimum elong	-3156 Aug 13 j 10:14	24° \mathfrak{E} 50'29	0°43'56	min. Earth dist.	-3148 Mar 16 j 00:12	29° \mathfrak{Q} 59'25	17.63204 AU
max. Earth dist.	-3156 Aug 12 j 12:46	24° \mathfrak{E} 47'05	19.34978 AU	direct	-3148 Jun 01 j 00:58	27° \mathfrak{Q} 55'53	
retrograde	-3156 Nov 28 j 09:39	29° \mathfrak{E} 12'08			-3148 Aug 11 j 13:29	0° \mathfrak{R} \mathfrak{Q}	
opposition	-3155 Feb 10 j 04:29	27° \mathfrak{E} 10'39	0°49'41	conjunction	-3148 Sep 19 j 17:41	2° \mathfrak{R} 19'30	0°46'15
min. Earth dist.	-3155 Feb 10 j 23:53	27° \mathfrak{E} 08'34	17.36137 AU	minimum elong	-3148 Sep 19 j 17:41	2° \mathfrak{R} 19'30	0°46'18
direct	-3155 Apr 28 j 05:12	25° \mathfrak{E} 04'41		max. Earth dist.	-3148 Sep 19 j 12:28	2° \mathfrak{R} 18'42	19.65974 AU
				retrograde	-3147 Jan 04 j 17:34	6° \mathfrak{R} 36'10	
conjunction	-3155 Aug 18 j 10:57	29° \mathfrak{E} 35'53	0°45'14	opposition	-3147 Mar 20 j 18:21	4° \mathfrak{R} 35'23	0°50'56
minimum elong	-3155 Aug 18 j 10:57	29° \mathfrak{E} 35'53	0°45'19	min. Earth dist.	-3147 Mar 20 j 21:37	4° \mathfrak{R} 35'03	17.68855 AU
max. Earth dist.	-3155 Aug 17 j 13:50	29° \mathfrak{E} 32'33	19.37328 AU	direct	-3147 Jun 06 j 03:32	2° \mathfrak{R} 31'35	
	-3155 Aug 24 j 19:28	0° \mathfrak{Q}					
retrograde	-3155 Dec 03 j 09:30	3° \mathfrak{Q} 57'07		conjunction	-3147 Sep 24 j 11:40	6° \mathfrak{R} 53'48	0°45'11
opposition	-3154 Feb 15 j 06:55	1° \mathfrak{Q} 55'44	0°51'05	minimum elong	-3147 Sep 24 j 11:40	6° \mathfrak{R} 53'48	0°45'14
min. Earth dist.	-3154 Feb 16 j 00:27	1° \mathfrak{Q} 53'52	17.38701 AU	max. Earth dist.	-3147 Sep 24 j 08:46	6° \mathfrak{R} 53'20	19.71823 AU
	-3154 Apr 13 j 14:47	30° \mathfrak{R} \mathfrak{E}		retrograde	-3146 Jan 09 j 11:26	11° \mathfrak{R} 09'42	
direct	-3154 May 03 j 09:33	29° \mathfrak{E} 49'57		opposition	-3146 Mar 25 j 18:33	9° \mathfrak{R} 09'05	0°49'34
	-3154 May 22 j 22:01	0° \mathfrak{Q}		min. Earth dist.	-3146 Mar 25 j 20:19	9° \mathfrak{R} 08'54	17.74887 AU
				direct	-3146 Jun 11 j 02:18	7° \mathfrak{R} 05'42	
conjunction	-3154 Aug 23 j 11:09	4° \mathfrak{Q} 20'27	0°46'20	conjunction	-3146 Sep 29 j 04:52	11° \mathfrak{R} 26'27	0°43'50
minimum elong	-3154 Aug 23 j 11:08	4° \mathfrak{Q} 20'27	0°46'26	minimum elong	-3146 Sep 29 j 04:52	11° \mathfrak{R} 26'27	0°43'53
max. Earth dist.	-3154 Aug 22 j 16:49	4° \mathfrak{Q} 17'33	19.40105 AU	max. Earth dist.	-3146 Sep 29 j 04:24	11° \mathfrak{R} 26'22	19.78025 AU
retrograde	-3154 Dec 08 j 08:31	8° \mathfrak{Q} 41'09		retrograde	-3145 Jan 14 j 07:27	15° \mathfrak{R} 41'35	
opposition	-3153 Feb 20 j 09:28	6° \mathfrak{Q} 39'53	0°52'07	opposition	-3145 Mar 30 j 18:06	13° \mathfrak{R} 41'07	0°47'55
min. Earth dist.	-3153 Feb 21 j 01:48	6° \mathfrak{Q} 38'09	17.41679 AU	min. Earth dist.	-3145 Mar 30 j 16:40	13° \mathfrak{R} 41'16	17.81219 AU
direct	-3153 May 08 j 13:12	4° \mathfrak{Q} 34'19					
conjunction	-3153 Aug 28 j 10:16	9° \mathfrak{Q} 03'55	0°47'06				

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Attention, astronomical year style is used: The year -3145 in astronomical counting style is the year 3146 BCE in historical counting style.

direct	-3145 Jun 16 j 02:57	11° \mathring{M} 38'12		direct	-3137 Jul 22 j 14:36	16° \mathring{U} 52'40	
conjunction	-3145 Oct 03 j 21:12	15° \mathring{M} 57'26	0°42'14	conjunction	-3137 Nov 07 j 03:15	20° \mathring{U} 59'21	0°21'50
minimum elong	-3145 Oct 03 j 21:12	15° \mathring{M} 57'26	0°42'15	minimum elong	-3137 Nov 07 j 03:15	20° \mathring{U} 59'21	0°21'48
max. Earth dist.	-3145 Oct 03 j 23:11	15° \mathring{M} 57'45	19.84476 AU	max. Earth dist.	-3137 Nov 07 j 20:28	21° \mathring{U} 01'57	20.37270 AU
retrograde	-3144 Jan 19 j 00:22	20° \mathring{M} 11'48		retrograde	-3136 Feb 23 j 05:32	25° \mathring{U} 07'22	
opposition	-3144 Apr 03 j 17:14	18° \mathring{M} 11'30	0°45'57	opposition	-3136 May 10 j 09:27	23° \mathring{U} 07'40	0°22'24
min. Earth dist.	-3144 Apr 03 j 14:42	18° \mathring{M} 11'46	17.87772 AU	min. Earth dist.	-3136 May 09 j 16:23	23° \mathring{U} 09'24	18.40422 AU
direct	-3144 Jun 20 j 00:08	16° \mathring{M} 09'01		direct	-3136 Jul 26 j 05:29	21° \mathring{U} 08'14	
conjunction	-3144 Oct 07 j 12:44	20° \mathring{M} 26'43	0°40'22	conjunction	-3136 Nov 10 j 12:22	25° \mathring{U} 13'27	0°18'38
minimum elong	-3144 Oct 07 j 12:44	20° \mathring{M} 26'43	0°40'24	minimum elong	-3136 Nov 10 j 12:22	25° \mathring{U} 13'27	0°18'35
max. Earth dist.	-3144 Oct 07 j 16:34	20° \mathring{M} 27'18	19.91110 AU	max. Earth dist.	-3136 Nov 11 j 06:26	25° \mathring{U} 16'09	20.43560 AU
retrograde	-3143 Jan 22 j 19:20	24° \mathring{M} 40'17		retrograde	-3135 Feb 26 j 19:32	29° \mathring{U} 20'45	
opposition	-3143 Apr 08 j 15:35	22° \mathring{M} 40'08	0°43'44	min. Earth dist.	-3135 May 14 j 06:25	27° \mathring{U} 23'04	18.46684 AU
min. Earth dist.	-3143 Apr 08 j 10:01	22° \mathring{M} 40'43	17.94456 AU	opposition	-3135 May 15 j 01:54	27° \mathring{U} 21'06	0°18'49
direct	-3143 Jun 24 j 22:37	20° \mathring{M} 38'06		direct	-3135 Jul 30 j 20:55	25° \mathring{U} 21'59	
conjunction	-3143 Oct 12 j 03:35	24° \mathring{M} 54'15	0°38'17	conjunction	-3135 Nov 14 j 21:03	29° \mathring{U} 25'50	0°15'22
minimum elong	-3143 Oct 12 j 03:35	24° \mathring{M} 54'15	0°38'17	minimum elong	-3135 Nov 14 j 21:03	29° \mathring{U} 25'50	0°15'19
max. Earth dist.	-3143 Oct 12 j 09:52	24° \mathring{M} 55'12	19.97832 AU	behind sun begin	-3135 Nov 14 j 18:45	29° \mathring{U} 25'30	
retrograde	-3142 Jan 27 j 11:28	29° \mathring{M} 07'01		behind sun end	-3135 Nov 14 j 23:21	29° \mathring{U} 26'10	
opposition	-3142 Apr 13 j 13:39	27° \mathring{M} 07'00	0°41'16	max. Earth dist.	-3135 Nov 15 j 17:51	29° \mathring{U} 28'56	20.49777 AU
min. Earth dist.	-3142 Apr 13 j 07:11	27° \mathring{M} 07'39	18.01207 AU		-3135 Nov 24 j 10:31	0° \mathring{M}	
direct	-3142 Jun 29 j 18:28	25° \mathring{M} 05'24		retrograde	-3134 Mar 03 j 07:08	3° \mathring{M} 32'29	
conjunction	-3142 Oct 16 j 17:26	29° \mathring{M} 19'56	0°35'58	opposition	-3134 May 19 j 17:43	1° \mathring{M} 32'53	0°15'09
minimum elong	-3142 Oct 16 j 17:26	29° \mathring{M} 19'56	0°35'57	min. Earth dist.	-3134 May 18 j 21:13	1° \mathring{M} 34'57	18.52860 AU
max. Earth dist.	-3142 Oct 17 j 01:07	29° \mathring{M} 21'06	20.04593 AU		-3134 Jul 02 j 18:22	30° \mathring{R} \mathring{U}	
	-3142 Oct 27 j 15:31	0° \mathring{U}		direct	-3134 Aug 04 j 10:09	29° \mathring{U} 34'09	
retrograde	-3141 Feb 01 j 05:24	3° \mathring{U} 31'54			-3134 Sep 05 j 06:24	0° \mathring{M}	
opposition	-3141 Apr 18 j 10:50	1° \mathring{U} 32'00	0°38'34	conjunction	-3134 Nov 19 j 04:59	3° \mathring{M} 36'39	0°12'03
min. Earth dist.	-3141 Apr 18 j 01:29	1° \mathring{U} 32'57	18.07952 AU	minimum elong	-3134 Nov 19 j 04:58	3° \mathring{M} 36'39	0°12'00
	-3141 May 30 j 21:47	30° \mathring{R} \mathring{M}		behind sun begin	-3134 Nov 19 j 00:24	3° \mathring{M} 35'59	
direct	-3141 Jul 04 j 15:13	29° \mathring{M} 30'48		behind sun end	-3134 Nov 19 j 09:32	3° \mathring{M} 37'18	
	-3141 Aug 07 j 09:00	0° \mathring{U}		max. Earth dist.	-3134 Nov 20 j 02:23	3° \mathring{M} 39'49	20.55906 AU
conjunction	-3141 Oct 21 j 06:43	3° \mathring{U} 43'45	0°33'27	retrograde	-3133 Mar 07 j 19:59	7° \mathring{M} 42'41	
minimum elong	-3141 Oct 21 j 06:43	3° \mathring{U} 43'45	0°33'27	min. Earth dist.	-3133 May 23 j 10:15	5° \mathring{M} 45'27	18.58929 AU
max. Earth dist.	-3141 Oct 21 j 16:47	3° \mathring{U} 45'17	20.11305 AU	opposition	-3133 May 24 j 08:44	5° \mathring{M} 43'11	0°11'25
retrograde	-3140 Feb 05 j 20:07	7° \mathring{U} 54'54		direct	-3133 Aug 08 j 23:38	3° \mathring{M} 44'48	
opposition	-3140 Apr 22 j 07:18	5° \mathring{U} 55'05	0°35'39	conjunction	-3133 Nov 23 j 12:37	7° \mathring{M} 46'03	0°08'41
min. Earth dist.	-3140 Apr 21 j 21:16	5° \mathring{U} 56'06	18.14631 AU	minimum elong	-3133 Nov 23 j 12:37	7° \mathring{M} 46'03	0°08'37
direct	-3140 Jul 08 j 09:38	3° \mathring{U} 54'16		behind sun begin	-3133 Nov 23 j 06:54	7° \mathring{M} 45'14	
conjunction	-3140 Oct 24 j 19:05	8° \mathring{U} 05'38	0°30'45	behind sun end	-3133 Nov 23 j 18:20	7° \mathring{M} 46'53	
minimum elong	-3140 Oct 24 j 19:05	8° \mathring{U} 05'38	0°30'44	max. Earth dist.	-3133 Nov 24 j 12:28	7° \mathring{M} 49'35	20.61885 AU
max. Earth dist.	-3140 Oct 25 j 06:06	8° \mathring{U} 07'18	20.17945 AU	retrograde	-3132 Mar 11 j 06:57	11° \mathring{M} 51'31	
retrograde	-3139 Feb 09 j 12:50	12° \mathring{U} 15'58		opposition	-3132 May 27 j 22:56	9° \mathring{M} 52'06	0°07'40
opposition	-3139 Apr 27 j 03:00	10° \mathring{U} 16'12	0°32'33	min. Earth dist.	-3132 May 26 j 23:42	9° \mathring{M} 54'27	18.64813 AU
min. Earth dist.	-3139 Apr 26 j 14:16	10° \mathring{U} 17'30	18.21217 AU	direct	-3132 Aug 12 j 11:42	7° \mathring{M} 54'06	
direct	-3139 Jul 13 j 04:36	8° \mathring{U} 15'45		conjunction	-3132 Nov 26 j 19:39	11° \mathring{M} 54'09	0°05'18
conjunction	-3139 Oct 29 j 06:35	12° \mathring{U} 25'31	0°27'54	minimum elong	-3132 Nov 26 j 19:40	11° \mathring{M} 54'10	0°05'15
minimum elong	-3139 Oct 29 j 06:35	12° \mathring{U} 25'31	0°27'54	behind sun begin	-3132 Nov 26 j 13:20	11° \mathring{M} 53'15	
max. Earth dist.	-3139 Oct 29 j 20:10	12° \mathring{U} 27'34	20.24474 AU	behind sun end	-3132 Nov 27 j 02:00	11° \mathring{M} 55'04	
retrograde	-3138 Feb 14 j 02:01	16° \mathring{U} 35'04		max. Earth dist.	-3132 Nov 27 j 19:43	11° \mathring{M} 57'42	20.67669 AU
opposition	-3138 May 01 j 22:07	14° \mathring{U} 35'19	0°29'18		-3131 Jan 25 j 08:27	15° \mathring{M}	
min. Earth dist.	-3138 May 01 j 08:34	14° \mathring{U} 36'42	18.27698 AU	retrograde	-3131 Mar 15 j 18:28	15° \mathring{M} 59'06	
direct	-3138 Jul 17 j 21:31	12° \mathring{U} 35'13			-3131 May 06 j 06:50	15° \mathring{R} \mathring{M}	
conjunction	-3138 Nov 02 j 17:16	16° \mathring{U} 43'25	0°24'55	min. Earth dist.	-3131 May 31 j 11:58	14° \mathring{M} 02'16	18.70482 AU
minimum elong	-3138 Nov 02 j 17:16	16° \mathring{U} 43'25	0°24'53	opposition	-3131 Jun 01 j 12:39	13° \mathring{M} 59'47	0°03'52
max. Earth dist.	-3138 Nov 03 j 07:47	16° \mathring{U} 45'36	20.30916 AU	direct	-3131 Aug 16 j 23:10	12° \mathring{M} 02'07	
retrograde	-3137 Feb 18 j 17:27	20° \mathring{U} 52'11			-3131 Nov 13 j 15:08	15° \mathring{M}	
opposition	-3137 May 06 j 16:07	18° \mathring{U} 52'27	0°25'55	conjunction	-3131 Dec 01 j 02:25	16° \mathring{M} 01'04	0°01'52
min. Earth dist.	-3137 May 06 j 00:00	18° \mathring{U} 54'05	18.34101 AU	minimum elong	-3131 Dec 01 j 02:24	16° \mathring{M} 01'04	0°01'47
				behind sun begin	-3131 Nov 30 j 19:51	16° \mathring{M} 00'08	

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Attention, astronomical year style is used: The year -3131 in astronomical counting style is the year 3132 BCE in historical counting style.

behind sun end	-3131 Dec 01 j 08:56	16°M02'00		direct	-3124 Sep 14 j 14:21	10°Z26'33	
max. Earth dist.	-3131 Dec 02 j 04:38	16°M04'56	20.73188 AU				
retrograde	-3130 Mar 20 j 05:03	20°M05'32		conjunction	-3124 Dec 28 j 18:31	14°Z19'36	0°-21'-3
min. Earth dist.	-3130 Jun 05 j 00:31	18°M08'50	18.75847 AU	minimum elong	-3124 Dec 28 j 18:31	14°Z19'36	0°21'11
opposition	-3130 Jun 06 j 01:46	18°M06'18	0°00'05	max. Earth dist.	-3124 Dec 29 j 22:10	14°Z23'35	21.00249 AU
desc. node	-3130 Jun 14 j 07:42	17°M46'35		retrograde	-3123 Apr 17 j 20:28	18°Z21'34	
direct	-3130 Aug 21 j 10:16	16°M08'58		min. Earth dist.	-3123 Jul 04 j 01:15	16°Z24'53	19.01404 AU
				opposition	-3123 Jul 05 j 03:58	16°Z22'13	0°-24'-55
conjunction	-3130 Dec 05 j 08:49	20°M06'51	0°-1'-38	direct	-3123 Sep 18 j 20:15	14°Z25'54	
minimum elong	-3130 Dec 05 j 08:49	20°M06'51	0°01'43				
behind sun begin	-3130 Dec 05 j 02:17	20°M05'55		conjunction	-3122 Jan 01 j 23:32	18°Z18'27	0°-23'-58
behind sun end	-3130 Dec 05 j 15:21	20°M07'47		minimum elong	-3122 Jan 01 j 23:32	18°Z18'27	0°24'05
max. Earth dist.	-3130 Dec 06 j 10:47	20°M10'39	20.78385 AU	max. Earth dist.	-3122 Jan 03 j 04:30	18°Z22'36	21.02383 AU
retrograde	-3129 Mar 24 j 15:14	24°M10'52		retrograde	-3122 Apr 22 j 03:59	22°Z20'14	
opposition	-3129 Jun 10 j 14:05	22°M11'42	0°-3'-40	min. Earth dist.	-3122 Jul 08 j 09:20	20°Z23'31	19.03357 AU
min. Earth dist.	-3129 Jun 09 j 12:06	22°M14'18	18.80867 AU	opposition	-3122 Jul 09 j 12:19	20°Z20'49	0°-28'-4
direct	-3129 Aug 25 j 19:55	20°M14'38		direct	-3122 Sep 23 j 03:17	18°Z24'34	
conjunction	-3129 Dec 09 j 15:07	24°M11'34	0°-5'-3	conjunction	-3121 Jan 06 j 04:30	22°Z16'41	0°-26'-46
minimum elong	-3129 Dec 09 j 15:07	24°M11'34	0°05'09	minimum elong	-3121 Jan 06 j 04:29	22°Z16'41	0°26'53
behind sun begin	-3129 Dec 09 j 08:46	24°M10'40		max. Earth dist.	-3121 Jan 07 j 08:23	22°Z20'41	21.04163 AU
behind sun end	-3129 Dec 09 j 21:29	24°M12'28		retrograde	-3121 Apr 26 j 12:13	26°Z18'22	
max. Earth dist.	-3129 Dec 10 j 18:41	24°M15'35	20.83188 AU	opposition	-3121 Jul 13 j 20:10	24°Z18'54	0°-31'-5
retrograde	-3128 Mar 28 j 00:55	28°M15'08		min. Earth dist.	-3121 Jul 12 j 17:40	24°Z21'33	19.04971 AU
min. Earth dist.	-3128 Jun 12 j 23:36	26°M18'39	18.85451 AU	direct	-3121 Sep 27 j 07:46	22°Z22'41	
opposition	-3128 Jun 14 j 01:52	26°M16'02	0°-7'-25				
direct	-3128 Aug 29 j 05:56	24°M19'12		conjunction	-3120 Jan 10 j 09:38	26°Z14'32	0°-29'-25
				minimum elong	-3120 Jan 10 j 09:37	26°Z14'32	0°29'32
conjunction	-3128 Dec 12 j 20:55	28°M15'13	0°-8'-23	max. Earth dist.	-3120 Jan 11 j 14:33	26°Z18'40	21.05594 AU
minimum elong	-3128 Dec 12 j 20:56	28°M15'13	0°08'30				
behind sun begin	-3128 Dec 12 j 15:10	28°M14'24		retrograde	-3120 Apr 29 j 20:00	0°Z16'09	
behind sun end	-3128 Dec 13 j 02:41	28°M16'02					
max. Earth dist.	-3128 Dec 13 j 23:47	28°M19'08	20.87543 AU	min. Earth dist.	-3120 Jul 16 j 01:02	28°Z19'21	19.06222 AU
	-3127 Jan 12 j 20:02	0°Z		opposition	-3120 Jul 17 j 03:40	28°Z16'40	0°-33'-57
retrograde	-3127 Apr 01 j 10:31	2°Z18'25		direct	-3120 Sep 30 j 14:02	26°Z20'31	
min. Earth dist.	-3127 Jun 17 j 10:34	0°Z21'58	18.89577 AU				
opposition	-3127 Jun 18 j 13:09	0°Z19'19	0°-11'-6	conjunction	-3119 Jan 13 j 14:33	0°Z12'09	0°-31'-56
	-3127 Jun 26 j 15:30	30°RM		minimum elong	-3119 Jan 13 j 14:33	0°Z12'09	0°32'03
direct	-3127 Sep 02 j 14:22	28°M22'40		max. Earth dist.	-3119 Jan 14 j 18:11	0°Z16'06	21.06670 AU
	-3127 Nov 04 j 23:32	0°Z		retrograde	-3119 May 04 j 04:15	4°Z13'49	
conjunction	-3127 Dec 17 j 02:45	2°Z17'50	0°-11'-40	min. Earth dist.	-3119 Jul 20 j 09:11	2°Z16'55	19.07118 AU
minimum elong	-3127 Dec 17 j 02:45	2°Z17'50	0°11'46	opposition	-3119 Jul 21 j 11:03	2°Z14'19	0°-36'-39
behind sun begin	-3127 Dec 16 j 22:05	2°Z17'11		direct	-3119 Oct 04 j 17:57	0°Z18'12	
behind sun end	-3127 Dec 17 j 07:24	2°Z18'30					
max. Earth dist.	-3127 Dec 18 j 06:56	2°Z21'55	20.91419 AU	conjunction	-3118 Jan 17 j 20:01	4°Z09'45	0°-34'-18
retrograde	-3126 Apr 05 j 19:00	6°Z20'40		minimum elong	-3118 Jan 17 j 20:01	4°Z09'45	0°34'26
opposition	-3126 Jun 22 j 23:44	4°Z21'32	0°-14'-42	max. Earth dist.	-3118 Jan 19 j 00:24	4°Z13'48	21.07370 AU
min. Earth dist.	-3126 Jun 21 j 20:58	4°Z24'12	18.93207 AU	retrograde	-3118 May 08 j 12:27	8°Z11'30	
direct	-3126 Sep 06 j 23:12	2°Z25'02		opposition	-3118 Jul 25 j 17:57	6°Z12'01	0°-39'-10
				min. Earth dist.	-3118 Jul 24 j 16:15	6°Z14'36	19.07613 AU
conjunction	-3126 Dec 21 j 08:11	6°Z19'24	0°-14'-53	direct	-3118 Oct 08 j 23:19	4°Z15'57	
minimum elong	-3126 Dec 21 j 08:10	6°Z19'24	0°15'01				
behind sun begin	-3126 Dec 21 j 05:38	6°Z19'03		conjunction	-3117 Jan 22 j 01:37	8°Z07'30	0°-36'-31
behind sun end	-3126 Dec 21 j 10:43	6°Z19'46		minimum elong	-3117 Jan 22 j 01:37	8°Z07'30	0°36'38
max. Earth dist.	-3126 Dec 22 j 11:25	6°Z23'21	20.94813 AU	max. Earth dist.	-3117 Jan 23 j 04:14	8°Z11'17	21.07661 AU
retrograde	-3125 Apr 10 j 04:18	10°Z21'54		retrograde	-3117 May 12 j 21:04	12°Z09'24	
min. Earth dist.	-3125 Jun 26 j 07:05	8°Z25'22	18.96369 AU	min. Earth dist.	-3117 Jul 29 j 00:26	10°Z12'22	19.07686 AU
opposition	-3125 Jun 27 j 09:46	8°Z22'43	0°-18'-13	opposition	-3117 Jul 30 j 00:50	10°Z09'55	0°-41'-31
direct	-3125 Sep 11 j 06:33	6°Z26'17		direct	-3117 Oct 13 j 03:18	8°Z13'51	
conjunction	-3125 Dec 25 j 13:30	10°Z19'58	0°-18'-1	conjunction	-3116 Jan 26 j 07:39	12°Z05'31	0°-38'-33
minimum elong	-3125 Dec 25 j 13:30	10°Z19'58	0°18'08	minimum elong	-3116 Jan 26 j 07:39	12°Z05'31	0°38'41
max. Earth dist.	-3125 Dec 26 j 18:02	10°Z24'05	20.97738 AU	max. Earth dist.	-3116 Jan 27 j 10:33	12°Z09'21	21.07494 AU
retrograde	-3124 Apr 13 j 11:45	14°Z22'09		retrograde	-3116 May 16 j 05:38	16°Z07'37	
opposition	-3124 Jun 30 j 19:02	12°Z22'54	0°-21'-38	min. Earth dist.	-3116 Aug 01 j 07:30	14°Z10'34	19.07269 AU
min. Earth dist.	-3124 Jun 29 j 16:08	12°Z25'35	18.99076 AU	opposition	-3116 Aug 02 j 07:26	14°Z08'09	0°-43'-40

Attention, astronomical year style is used: The year -3116 in astronomical counting style is the year 3117 BCE in historical counting style.

direct	-3116 Oct 16 j 08:00	12°☾12'05		min. Earth dist.	-3108 Sep 02 j 22:18	16°☾12'37	18.85769 AU
					-3108 Oct 04 j 09:53	15°☾☾	
conjunction	-3115 Jan 29 j 14:00	16°☾03'56	0°-40'-24	direct	-3108 Nov 17 j 01:40	14°☾13'40	
minimum elong	-3115 Jan 29 j 14:00	16°☾03'56	0°40'31		-3108 Dec 29 j 18:13	15°☾☾	
max. Earth dist.	-3115 Jan 30 j 14:39	16°☾07'27	21.06830 AU				
retrograde	-3115 May 20 j 14:39	20°☾06'18		conjunction	-3107 Mar 03 j 09:28	18°☾09'52	0°-47'-40
opposition	-3115 Aug 06 j 14:07	18°☾06'48	0°-45'-37	minimum elong	-3107 Mar 03 j 09:28	18°☾09'52	0°47'45
min. Earth dist.	-3115 Aug 05 j 15:56	18°☾09'02	19.06347 AU	max. Earth dist.	-3107 Mar 03 j 22:08	18°☾11'41	20.83585 AU
direct	-3115 Oct 20 j 12:15	16°☾10'40		retrograde	-3107 Jun 22 j 18:43	22°☾15'28	
				opposition	-3107 Sep 07 j 17:55	20°☾14'54	0°-52'-42
conjunction	-3114 Feb 02 j 20:56	20°☾02'48	0°-42'-4	min. Earth dist.	-3107 Sep 07 j 07:23	20°☾15'59	18.81382 AU
minimum elong	-3114 Feb 02 j 20:56	20°☾02'48	0°42'11	direct	-3107 Nov 21 j 06:39	18°☾16'59	
max. Earth dist.	-3114 Feb 03 j 21:24	20°☾06'17	21.05630 AU				
retrograde	-3114 May 24 j 23:55	24°☾05'26		conjunction	-3106 Mar 07 j 20:35	22°☾14'08	0°-47'-33
opposition	-3114 Aug 10 j 20:37	22°☾05'53	0°-47'-20	minimum elong	-3106 Mar 07 j 20:35	22°☾14'08	0°47'38
min. Earth dist.	-3114 Aug 09 j 23:12	22°☾08'03	19.04856 AU	max. Earth dist.	-3106 Mar 08 j 08:37	22°☾15'52	20.79073 AU
direct	-3114 Oct 24 j 17:18	20°☾09'39		retrograde	-3106 Jun 27 j 06:12	26°☾20'20	
				opposition	-3106 Sep 12 j 00:55	24°☾19'41	0°-52'-27
conjunction	-3113 Feb 07 j 04:12	24°☾02'08	0°-43'-32	min. Earth dist.	-3106 Sep 11 j 15:04	24°☾20'42	18.76736 AU
minimum elong	-3113 Feb 07 j 04:12	24°☾02'08	0°43'38	direct	-3106 Nov 25 j 14:12	22°☾21'30	
max. Earth dist.	-3113 Feb 08 j 01:59	24°☾05'14	21.03861 AU				
retrograde	-3113 May 29 j 08:43	28°☾05'04		conjunction	-3105 Mar 12 j 08:15	26°☾19'40	0°-47'-11
min. Earth dist.	-3113 Aug 14 j 07:45	26°☾07'22	19.02809 AU	minimum elong	-3105 Mar 12 j 08:15	26°☾19'40	0°47'16
opposition	-3113 Aug 15 j 03:04	26°☾05'24	0°-48'-50	max. Earth dist.	-3105 Mar 12 j 17:23	26°☾20'59	20.74309 AU
direct	-3113 Oct 28 j 21:33	24°☾09'01			-3105 May 29 j 19:44	0°☾☾	
				retrograde	-3105 Jul 01 j 17:05	0°☾26'32	
conjunction	-3112 Feb 11 j 11:58	28°☾01'55	0°-44'-47		-3105 Aug 03 j 20:29	30°☾☾	
minimum elong	-3112 Feb 11 j 11:58	28°☾01'55	0°44'53	opposition	-3105 Sep 16 j 08:19	28°☾25'47	0°-51'-55
max. Earth dist.	-3112 Feb 12 j 09:22	28°☾04'58	21.01544 AU	min. Earth dist.	-3105 Sep 16 j 00:55	28°☾26'34	18.71854 AU
	-3112 Mar 18 j 12:09	0°☾☾		direct	-3105 Nov 29 j 20:08	26°☾27'21	
retrograde	-3112 Jun 01 j 18:37	2°☾05'11			-3104 Mar 08 j 03:33	0°☾☾	
opposition	-3112 Aug 18 j 09:25	0°☾05'24	0°-50'-6				
min. Earth dist.	-3112 Aug 17 j 14:52	0°☾07'17	19.00224 AU	conjunction	-3104 Mar 15 j 20:52	0°☾26'39	0°-46'-35
	-3112 Aug 20 j 14:23	30°☾☾		minimum elong	-3104 Mar 15 j 20:52	0°☾26'39	0°46'40
direct	-3112 Nov 01 j 03:29	28°☾08'48		max. Earth dist.	-3104 Mar 16 j 05:09	0°☾27'51	20.69314 AU
	-3111 Jan 08 j 09:31	0°☾☾		retrograde	-3104 Jul 05 j 05:35	4°☾34'12	
				opposition	-3104 Sep 19 j 16:02	2°☾33'24	0°-51'-8
conjunction	-3111 Feb 14 j 19:50	2°☾02'11	0°-45'-49	min. Earth dist.	-3104 Sep 19 j 09:28	2°☾34'05	18.66726 AU
minimum elong	-3111 Feb 14 j 19:50	2°☾02'11	0°45'55	direct	-3104 Dec 03 j 04:11	0°☾34'43	
max. Earth dist.	-3111 Feb 15 j 14:40	2°☾04'51	20.98725 AU				
retrograde	-3111 Jun 06 j 03:04	6°☾05'50		conjunction	-3103 Mar 20 j 10:07	4°☾35'12	0°-45'-45
opposition	-3111 Aug 22 j 15:53	4°☾05'53	0°-51'-7	minimum elong	-3103 Mar 20 j 10:07	4°☾35'12	0°45'48
min. Earth dist.	-3111 Aug 21 j 23:30	4°☾07'33	18.97176 AU	max. Earth dist.	-3103 Mar 20 j 15:21	4°☾35'57	20.64060 AU
direct	-3111 Nov 05 j 07:33	2°☾09'03		retrograde	-3103 Jul 09 j 17:43	8°☾43'31	
				opposition	-3103 Sep 24 j 00:21	6°☾42'38	0°-50'-4
conjunction	-3110 Feb 19 j 04:34	6°☾03'00	0°-46'-37	min. Earth dist.	-3103 Sep 23 j 20:37	6°☾43'02	18.61336 AU
minimum elong	-3110 Feb 19 j 04:34	6°☾03'00	0°46'42	direct	-3103 Dec 07 j 11:31	4°☾43'40	
max. Earth dist.	-3110 Feb 19 j 23:02	6°☾05'37	20.95464 AU				
retrograde	-3110 Jun 10 j 13:41	10°☾07'03		conjunction	-3102 Mar 25 j 00:36	8°☾45'26	0°-44'-39
opposition	-3110 Aug 26 j 22:04	8°☾06'56	0°-51'-54	minimum elong	-3102 Mar 25 j 00:36	8°☾45'26	0°44'43
min. Earth dist.	-3110 Aug 26 j 06:28	8°☾08'32	18.93710 AU	max. Earth dist.	-3102 Mar 25 j 04:29	8°☾46'00	20.58528 AU
direct	-3110 Nov 09 j 14:12	6°☾09'51		retrograde	-3102 Jul 14 j 07:28	12°☾54'30	
				opposition	-3102 Sep 28 j 08:54	10°☾53'34	0°-48'-44
conjunction	-3109 Feb 23 j 13:37	10°☾04'27	0°-47'-12	min. Earth dist.	-3102 Sep 28 j 06:19	10°☾53'50	18.55645 AU
minimum elong	-3109 Feb 23 j 13:37	10°☾04'27	0°47'18	direct	-3102 Dec 11 j 20:55	8°☾54'18	
max. Earth dist.	-3109 Feb 24 j 05:23	10°☾06'42	20.91819 AU				
retrograde	-3109 Jun 14 j 22:14	14°☾08'58		conjunction	-3101 Mar 29 j 15:49	12°☾57'23	0°-43'-19
opposition	-3109 Aug 31 j 04:34	12°☾08'42	0°-52'-25	minimum elong	-3101 Mar 29 j 15:49	12°☾57'23	0°43'21
min. Earth dist.	-3109 Aug 30 j 15:10	12°☾10'04	18.89898 AU	max. Earth dist.	-3101 Mar 29 j 16:20	12°☾57'27	20.52682 AU
direct	-3109 Nov 13 j 18:29	10°☾11'20		retrograde	-3101 Jul 18 j 20:25	17°☾07'14	
				opposition	-3101 Oct 02 j 18:18	15°☾06'12	0°-47'-8
conjunction	-3108 Feb 27 j 23:16	14°☾06'41	0°-47'-33	min. Earth dist.	-3101 Oct 02 j 18:45	15°☾06'09	18.49647 AU
minimum elong	-3108 Feb 27 j 23:16	14°☾06'41	0°47'38	direct	-3101 Dec 16 j 05:45	13°☾06'36	
max. Earth dist.	-3108 Feb 28 j 14:39	14°☾08'53	20.87845 AU				
	-3108 Mar 14 j 14:42	15°☾☾		conjunction	-3100 Apr 02 j 07:50	17°☾11'02	0°-41'-43
retrograde	-3108 Jun 18 j 09:07	18°☾11'43		minimum elong	-3100 Apr 02 j 07:50	17°☾11'02	0°41'46
opposition	-3108 Sep 03 j 11:05	16°☾11'18	0°-52'-41	max. Earth dist.	-3100 Apr 02 j 06:45	17°☾10'53	20.46536 AU

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Attention, astronomical year style is used: The year -3100 in astronomical counting style is the year 3101 BCE in historical counting style.

retrograde	-3100 Jul 22 j 11:16	21° Υ 21'41		min. Earth dist.	-3092 Nov 09 j 22:17	24° Υ 14'29	17.89784 AU
opposition	-3100 Oct 06 j 04:03	19° Υ 20'32	0°-45'-15	direct	-3091 Jan 23 j 06:36	22° Υ 12'50	
min. Earth dist.	-3100 Oct 06 j 05:36	19° Υ 20'22	18.43348 AU				
direct	-3100 Dec 19 j 17:07	17° Υ 20'33		conjunction	-3091 May 13 j 20:18	26° Υ 30'52	0°-17'-43
				minimum elong	-3091 May 13 j 20:18	26° Υ 30'52	0°17'42
conjunction	-3099 Apr 07 j 00:44	21° Υ 26'23	0°-39'-53	max. Earth dist.	-3091 May 13 j 00:29	26° Υ 27'53	19.86670 AU
minimum elong	-3099 Apr 07 j 00:44	21° Υ 26'23	0°39'56		-3091 Jul 19 j 17:04	0° Υ	
max. Earth dist.	-3099 Apr 06 j 20:23	21° Υ 25'45	20.40105 AU	retrograde	-3091 Aug 31 j 18:52	0° Υ 48'30	
retrograde	-3099 Jul 27 j 00:44	25° Υ 37'48			-3091 Oct 14 j 12:04	30° Υ	
opposition	-3099 Oct 10 j 14:21	23° Υ 36'31	0°-43'-6	opposition	-3091 Nov 13 j 22:29	28° Υ 46'20	0°-17'-45
min. Earth dist.	-3099 Oct 10 j 18:59	23° Υ 36'02	18.36800 AU	min. Earth dist.	-3091 Nov 14 j 16:03	28° Υ 44'26	17.83615 AU
direct	-3099 Dec 24 j 03:14	21° Υ 36'07		direct	-3090 Jan 27 j 22:25	26° Υ 42'43	
					-3090 May 01 j 12:30	0° Υ	
conjunction	-3098 Apr 11 j 18:36	25° Υ 43'24	0°-37'-50	conjunction	-3090 May 18 j 20:19	1° Υ 02'18	0°-14'-12
minimum elong	-3098 Apr 11 j 18:36	25° Υ 43'24	0°37'51	minimum elong	-3090 May 18 j 20:19	1° Υ 02'18	0°14'10
max. Earth dist.	-3098 Apr 11 j 12:28	25° Υ 42'31	20.33462 AU	behind sun begin	-3090 May 18 j 17:16	1° Υ 01'51	
retrograde	-3098 Jul 31 j 16:48	29° Υ 55'36		behind sun end	-3090 May 18 j 23:22	1° Υ 02'45	
opposition	-3098 Oct 15 j 01:06	27° Υ 54'09	0°-40'-42	max. Earth dist.	-3090 May 17 j 22:14	0° Υ 58'58	19.80617 AU
min. Earth dist.	-3098 Oct 15 j 06:46	27° Υ 53'33	18.30063 AU	retrograde	-3090 Sep 05 j 15:41	5° Υ 20'42	
direct	-3098 Dec 28 j 16:32	25° Υ 53'20		opposition	-3090 Nov 18 j 14:49	3° Υ 18'30	0°-13'-45
	-3097 Apr 15 j 22:50	0° Υ		min. Earth dist.	-3090 Nov 19 j 09:04	3° Υ 16'31	17.77670 AU
conjunction	-3097 Apr 16 j 13:01	0° Υ 02'05	0°-35'-32	direct	-3089 Feb 01 j 17:40	1° Υ 14'35	
minimum elong	-3097 Apr 16 j 13:01	0° Υ 02'05	0°35'34				
max. Earth dist.	-3097 Apr 16 j 04:02	0° Υ 00'46	20.26654 AU	conjunction	-3089 May 23 j 21:02	5° Υ 35'42	0°-10'-34
retrograde	-3097 Aug 05 j 07:01	4° Υ 15'03		minimum elong	-3089 May 23 j 21:02	5° Υ 35'42	0°10'31
opposition	-3097 Oct 19 j 12:30	2° Υ 13'27	0°-38'-3	behind sun begin	-3089 May 23 j 15:48	5° Υ 34'56	
min. Earth dist.	-3097 Oct 19 j 21:02	2° Υ 12'33	18.23215 AU	behind sun end	-3089 May 24 j 02:16	5° Υ 36'29	
direct	-3096 Jan 02 j 03:57	0° Υ 12'11		max. Earth dist.	-3089 May 22 j 22:07	5° Υ 32'14	19.74763 AU
				retrograde	-3089 Sep 10 j 11:43	9° Υ 54'48	
conjunction	-3096 Apr 20 j 08:17	4° Υ 22'26	0°-33'-2	opposition	-3089 Nov 23 j 08:08	7° Υ 52'37	0°-9'-39
minimum elong	-3096 Apr 20 j 08:17	4° Υ 22'26	0°33'03	min. Earth dist.	-3089 Nov 24 j 04:23	7° Υ 50'24	17.71923 AU
max. Earth dist.	-3096 Apr 19 j 21:36	4° Υ 20'51	20.19788 AU	direct	-3088 Feb 06 j 11:44	5° Υ 48'23	
retrograde	-3096 Aug 09 j 00:16	8° Υ 36'11		conjunction	-3088 May 27 j 22:24	10° Υ 10'59	0°-6'-50
opposition	-3096 Oct 23 j 00:20	6° Υ 34'26	0°-35'-11	minimum elong	-3088 May 27 j 22:24	10° Υ 10'59	0°06'47
min. Earth dist.	-3096 Oct 23 j 09:38	6° Υ 33'26	18.16339 AU	behind sun begin	-3088 May 27 j 16:06	10° Υ 10'03	
direct	-3095 Jan 05 j 18:26	4° Υ 32'43		behind sun end	-3088 May 28 j 04:43	10° Υ 11'56	
				max. Earth dist.	-3088 May 26 j 20:57	10° Υ 07'07	19.69120 AU
conjunction	-3095 Apr 25 j 04:17	8° Υ 44'29	0°-30'-20	retrograde	-3088 Sep 14 j 09:07	14° Υ 30'45	
minimum elong	-3095 Apr 25 j 04:17	8° Υ 44'29	0°30'20	opposition	-3088 Nov 27 j 02:04	12° Υ 28'32	0°-5'-27
max. Earth dist.	-3095 Apr 24 j 15:15	8° Υ 42'34	20.12913 AU	min. Earth dist.	-3088 Nov 27 j 23:11	12° Υ 26'14	17.66389 AU
retrograde	-3095 Aug 13 j 16:13	12° Υ 59'01		direct	-3087 Feb 10 j 09:19	10° Υ 23'59	
opposition	-3095 Oct 27 j 13:00	10° Υ 57'08	0°-32'-5	max. Earth dist.	-3087 May 31 j 22:36	14° Υ 44'02	19.63675 AU
min. Earth dist.	-3095 Oct 28 j 00:56	10° Υ 55'51	18.09495 AU				
direct	-3094 Jan 10 j 07:24	8° Υ 54'59		conjunction	-3087 Jun 02 j 00:37	14° Υ 48'01	0°-3'-2
max. Earth dist.	-3094 Apr 29 j 10:16	13° Υ 06'05	20.06114 AU	minimum elong	-3087 Jun 02 j 00:36	14° Υ 48'00	0°02'59
				behind sun begin	-3087 Jun 01 j 17:50	14° Υ 47'00	
conjunction	-3094 Apr 30 j 01:09	13° Υ 08'17	0°-27'-26	behind sun end	-3087 Jun 02 j 07:22	14° Υ 49'01	
minimum elong	-3094 Apr 30 j 01:09	13° Υ 08'17	0°27'25		-3087 Jun 05 j 06:58	15° Υ	
retrograde	-3094 Aug 18 j 10:34	17° Υ 23'37		retrograde	-3087 Sep 19 j 06:01	19° Υ 08'21	
opposition	-3094 Nov 01 j 02:08	15° Υ 21'36	0°-28'-46	opposition	-3087 Dec 01 j 21:00	17° Υ 06'07	0°-1'-11
min. Earth dist.	-3094 Nov 01 j 14:39	15° Υ 20'15	18.02751 AU	min. Earth dist.	-3087 Dec 02 j 19:47	17° Υ 03'38	17.61052 AU
direct	-3093 Jan 14 j 23:04	13° Υ 19'02		direct	-3086 Feb 15 j 05:52	15° Υ 01'16	
				asc. node	-3086 Mar 15 j 08:49	15° Υ 22'05	
conjunction	-3093 May 04 j 22:47	17° Υ 33'55	0°-24'-21	max. Earth dist.	-3086 Jun 05 j 22:35	19° Υ 22'14	19.58455 AU
minimum elong	-3093 May 04 j 22:47	17° Υ 33'55	0°24'20				
max. Earth dist.	-3093 May 04 j 06:09	17° Υ 31'26	19.99434 AU	conjunction	-3086 Jun 07 j 03:07	19° Υ 26'36	0°00'54
retrograde	-3093 Aug 23 j 04:12	21° Υ 50'01		minimum elong	-3086 Jun 07 j 03:05	19° Υ 26'36	0°00'59
opposition	-3093 Nov 05 j 16:15	19° Υ 47'55	0°-25'-16	behind sun begin	-3086 Jun 06 j 20:19	19° Υ 25'35	
min. Earth dist.	-3093 Nov 06 j 07:04	19° Υ 46'19	17.96165 AU	behind sun end	-3086 Jun 07 j 09:52	19° Υ 27'37	
direct	-3092 Jan 19 j 13:18	17° Υ 44'58		retrograde	-3086 Sep 24 j 04:03	23° Υ 47'29	
				opposition	-3086 Dec 06 j 16:36	21° Υ 45'12	0°03'06
conjunction	-3092 May 08 j 21:00	22° Υ 01'24	0°-21'-7	min. Earth dist.	-3086 Dec 07 j 16:14	21° Υ 42'37	17.55969 AU
minimum elong	-3092 May 08 j 21:00	22° Υ 01'25	0°21'06	direct	-3085 Feb 20 j 05:29	19° Υ 40'02	
max. Earth dist.	-3092 May 08 j 02:28	21° Υ 58'38	19.92952 AU	max. Earth dist.	-3085 Jun 11 j 01:43	24° Υ 02'14	19.53506 AU
retrograde	-3092 Aug 27 j 00:00	26° Υ 18'18					
opposition	-3092 Nov 09 j 06:57	24° Υ 16'08	0°-21'-35				

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Attention, astronomical year style is used: The year -3085 in astronomical counting style is the year 3086 BCE in historical counting style.

conjunction	-3085 Jun 12 j 06:09	24°♄06'37	0°04'48				-3078 Sep 01 j 12:48	0°♄	
minimum elong	-3085 Jun 12 j 06:09	24°♄06'37	0°04'52	retrograde			-3078 Oct 31 j 21:36	1°♄36'59	
behind sun begin	-3085 Jun 11 j 23:33	24°♄05'37					-3077 Jan 03 j 11:23	30°♄♂	
behind sun end	-3085 Jun 12 j 12:45	24°♄07'36		opposition			-3077 Jan 13 j 04:46	29°♄34'46	0°34'50
retrograde	-3085 Sep 29 j 01:54	28°♄27'57		min. Earth dist.			-3077 Jan 14 j 05:53	29°♄32'02	17.31172 AU
opposition	-3085 Dec 11 j 12:58	26°♄25'38	0°07'24	direct			-3077 Mar 30 j 14:47	27°♄28'07	
min. Earth dist.	-3085 Dec 12 j 13:35	26°♄22'57	17.51178 AU				-3077 Jun 18 j 08:59	0°♄	
direct	-3084 Feb 25 j 04:19	24°♄20'10		max. Earth dist.			-3077 Jul 20 j 05:48	1°♄56'13	19.30831 AU
max. Earth dist.	-3084 Jun 15 j 02:48	28°♄43'10	19.48891 AU						
				conjunction			-3077 Jul 21 j 09:51	2°♄00'38	0°32'43
conjunction	-3084 Jun 16 j 09:15	28°♄47'52	0°08'38	minimum elong			-3077 Jul 21 j 09:50	2°♄00'38	0°32'49
minimum elong	-3084 Jun 16 j 09:15	28°♄47'52	0°08'43	retrograde			-3077 Nov 05 j 23:16	6°♄23'30	
behind sun begin	-3084 Jun 16 j 03:25	28°♄46'59		opposition			-3076 Jan 18 j 05:36	4°♄21'26	0°38'02
behind sun end	-3084 Jun 16 j 15:05	28°♄48'45		min. Earth dist.			-3076 Jan 19 j 05:06	4°♄18'52	17.30723 AU
	-3084 Jul 06 j 00:38	0°♂		direct			-3076 Apr 03 j 18:58	2°♄14'50	
retrograde	-3084 Oct 03 j 00:16	3°♂09'37		max. Earth dist.			-3076 Jul 24 j 10:11	6°♄43'19	19.30670 AU
opposition	-3084 Dec 15 j 09:58	1°♂07'15	0°11'40						
min. Earth dist.	-3084 Dec 16 j 11:23	1°♂04'29	17.46758 AU	conjunction			-3076 Jul 25 j 12:58	6°♄47'32	0°35'28
	-3083 Jan 11 j 11:33	30°♄♂		minimum elong			-3076 Jul 25 j 12:58	6°♄47'32	0°35'35
direct	-3083 Mar 01 j 04:57	29°♄01'28		retrograde			-3076 Nov 09 j 22:03	11°♄10'19	
	-3083 Apr 17 j 22:36	0°♂		opposition			-3075 Jan 22 j 07:07	9°♄08'23	0°40'58
max. Earth dist.	-3083 Jun 20 j 06:57	3°♂25'36	19.44666 AU	min. Earth dist.			-3075 Jan 23 j 06:57	9°♄05'47	17.30845 AU
				direct			-3075 Apr 08 j 21:26	7°♄01'52	
conjunction	-3083 Jun 21 j 12:52	3°♂30'14	0°12'25						
minimum elong	-3083 Jun 21 j 12:52	3°♂30'14	0°12'31	conjunction			-3075 Jul 30 j 15:43	11°♄34'36	0°37'59
behind sun begin	-3083 Jun 21 j 08:35	3°♂29'35		minimum elong			-3075 Jul 30 j 15:43	11°♄34'35	0°38'05
behind sun end	-3083 Jun 21 j 17:08	3°♂30'53		max. Earth dist.			-3075 Jul 29 j 13:26	11°♄30'26	19.31062 AU
retrograde	-3083 Oct 07 j 23:17	7°♂52'18		retrograde			-3075 Nov 14 j 23:19	15°♄57'12	
opposition	-3083 Dec 20 j 07:34	5°♂49'55	0°15'52	opposition			-3074 Jan 27 j 08:51	13°♄55'24	0°43'37
min. Earth dist.	-3083 Dec 21 j 09:15	5°♂47'06	17.42749 AU	min. Earth dist.			-3074 Jan 28 j 06:51	13°♄53'01	17.31489 AU
direct	-3082 Mar 06 j 05:53	3°♂43'52		direct			-3074 Apr 14 j 03:13	11°♄49'01	
max. Earth dist.	-3082 Jun 25 j 09:16	8°♂08'42	19.40895 AU						
				conjunction			-3074 Aug 04 j 18:15	16°♄21'35	0°40'13
conjunction	-3082 Jun 26 j 16:26	8°♂13'33	0°16'08	minimum elong			-3074 Aug 04 j 18:15	16°♄21'35	0°40'19
minimum elong	-3082 Jun 26 j 16:26	8°♂13'33	0°16'13	max. Earth dist.			-3074 Aug 03 j 17:52	16°♄17'44	19.31952 AU
retrograde	-3082 Oct 12 j 21:52	12°♂35'54		retrograde			-3074 Nov 19 j 21:47	20°♄43'57	
opposition	-3082 Dec 25 j 05:55	10°♂33'29	0°19'58	opposition			-3073 Feb 01 j 11:07	18°♄42'16	0°45'58
min. Earth dist.	-3082 Dec 26 j 08:12	10°♂30'37	17.39246 AU	min. Earth dist.			-3073 Feb 02 j 09:08	18°♄39'53	17.32624 AU
direct	-3081 Mar 11 j 06:54	8°♂27'11		direct			-3073 Apr 19 j 06:53	16°♄36'00	
conjunction	-3081 Jul 01 j 19:57	12°♂57'41	0°19'45	conjunction			-3073 Aug 09 j 20:01	21°♄08'15	0°42'11
minimum elong	-3081 Jul 01 j 19:57	12°♂57'41	0°19'51	minimum elong			-3073 Aug 09 j 20:01	21°♄08'15	0°42'17
max. Earth dist.	-3081 Jun 30 j 13:50	12°♂52'59	19.37657 AU	max. Earth dist.			-3073 Aug 08 j 19:58	21°♄04'27	19.33325 AU
retrograde	-3081 Oct 17 j 22:21	17°♂20'15		retrograde			-3073 Nov 24 j 22:18	25°♄30'18	
opposition	-3081 Dec 30 j 04:48	15°♂17'50	0°23'56	opposition			-3072 Feb 06 j 13:20	23°♄28'43	0°48'00
min. Earth dist.	-3081 Dec 31 j 06:28	15°♂15'02	17.36289 AU	min. Earth dist.			-3072 Feb 07 j 09:23	23°♄26'33	17.34221 AU
direct	-3080 Mar 15 j 09:15	13°♂11'22		direct			-3072 Apr 23 j 12:40	21°♄22'35	
conjunction	-3080 Jul 05 j 23:33	17°♂42'32	0°23'14	conjunction			-3072 Aug 13 j 21:32	25°♄54'22	0°43'51
minimum elong	-3080 Jul 05 j 23:33	17°♂42'32	0°23'20	minimum elong			-3072 Aug 13 j 21:32	25°♄54'22	0°43'56
max. Earth dist.	-3080 Jul 04 j 17:04	17°♂37'46	19.34994 AU	max. Earth dist.			-3072 Aug 12 j 23:50	25°♄50'56	19.35139 AU
retrograde	-3080 Oct 21 j 20:59	22°♂05'16					-3072 Nov 05 j 02:13	0°♂	
opposition	-3079 Jan 03 j 04:10	20°♂02'53	0°27'46	retrograde			-3072 Nov 28 j 20:44	0°♂15'59	
min. Earth dist.	-3079 Jan 04 j 06:17	20°♂00'01	17.33949 AU				-3072 Dec 23 j 03:39	30°♄♂	
direct	-3079 Mar 20 j 10:07	17°♂56'16		opposition			-3071 Feb 10 j 15:41	28°♄14'30	0°49'41
max. Earth dist.	-3079 Jul 09 j 21:42	22°♂23'24	19.32970 AU	min. Earth dist.			-3071 Feb 11 j 11:23	28°♄12'23	17.36249 AU
				direct			-3071 Apr 28 j 16:25	26°♄08'31	
conjunction	-3079 Jul 11 j 03:11	22°♂28'02	0°26'35				-3071 Aug 08 j 10:32	0°♂	
minimum elong	-3079 Jul 11 j 03:10	22°♂28'02	0°26'40						
retrograde	-3079 Oct 26 j 22:40	26°♂50'52		conjunction			-3071 Aug 18 j 22:14	0°♂39'41	0°45'13
opposition	-3078 Jan 08 j 04:10	24°♂48'33	0°31'24	minimum elong			-3071 Aug 18 j 22:14	0°♂39'41	0°45'18
min. Earth dist.	-3078 Jan 09 j 04:59	24°♂45'50	17.32237 AU	max. Earth dist.			-3071 Aug 18 j 00:56	0°♂36'19	19.37396 AU
direct	-3078 Mar 25 j 13:20	22°♂41'53		retrograde			-3071 Dec 03 j 20:41	5°♂00'50	
max. Earth dist.	-3078 Jul 15 j 01:41	27°♂09'33	19.31577 AU	opposition			-3070 Feb 15 j 18:03	2°♂59'25	0°51'01
				min. Earth dist.			-3070 Feb 16 j 11:42	2°♂57'32	17.38725 AU
conjunction	-3078 Jul 16 j 06:35	27°♂14'06	0°29'45	direct			-3070 May 03 j 21:07	0°♂53'34	
minimum elong	-3078 Jul 16 j 06:35	27°♂14'06	0°29'51						

Attention, astronomical year style is used: The year -3070 in astronomical counting style is the year 3071 BCE in historical counting style.

conjunction	-3070 Aug 23 j 22:14	5°♃23'58	0°46'15	conjunction	-3062 Sep 29 j 15:19	12°♃26'58	0°43'28
minimum elong	-3070 Aug 23 j 22:13	5°♃23'58	0°46'20	minimum elong	-3062 Sep 29 j 15:19	12°♃26'58	0°43'30
max. Earth dist.	-3070 Aug 23 j 03:50	5°♃21'04	19.40094 AU	max. Earth dist.	-3062 Sep 29 j 14:48	12°♃26'53	19.78396 AU
retrograde	-3070 Dec 08 j 18:56	9°♃44'34		retrograde	-3061 Jan 14 j 18:02	16°♃42'03	
opposition	-3069 Feb 20 j 20:27	7°♃43'13	0°52'00	opposition	-3061 Mar 31 j 04:08	14°♃41'37	0°47'29
min. Earth dist.	-3069 Feb 21 j 13:00	7°♃41'27	17.41639 AU	min. Earth dist.	-3061 Mar 31 j 02:55	14°♃41'45	17.81576 AU
direct	-3069 May 09 j 00:23	5°♃37'33		direct	-3061 Jun 16 j 12:34	12°♃38'44	
conjunction	-3069 Aug 28 j 21:20	10°♃07'02	0°46'59	conjunction	-3061 Oct 04 j 07:45	16°♃57'58	0°41'50
minimum elong	-3069 Aug 28 j 21:20	10°♃07'02	0°47'04	minimum elong	-3061 Oct 04 j 07:45	16°♃57'58	0°41'52
max. Earth dist.	-3069 Aug 28 j 03:46	10°♃04'16	19.43246 AU	max. Earth dist.	-3061 Oct 04 j 09:19	16°♃58'12	19.84810 AU
retrograde	-3069 Dec 13 j 18:00	14°♃27'02		retrograde	-3060 Jan 19 j 11:27	21°♃12'17	
opposition	-3068 Feb 25 j 22:23	12°♃25'43	0°52'38	opposition	-3060 Apr 04 j 03:07	19°♃12'01	0°45'30
min. Earth dist.	-3068 Feb 26 j 12:53	12°♃24'11	17.45029 AU	min. Earth dist.	-3060 Apr 04 j 00:54	19°♃12'15	17.88073 AU
direct	-3068 May 13 j 03:45	10°♃20'13		direct	-3060 Jun 20 j 10:10	17°♃09'34	
conjunction	-3068 Sep 01 j 19:45	14°♃48'42	0°47'23	conjunction	-3060 Oct 07 j 23:23	21°♃27'18	0°39'57
minimum elong	-3068 Sep 01 j 19:45	14°♃48'42	0°47'28	minimum elong	-3060 Oct 07 j 23:23	21°♃27'18	0°39'57
max. Earth dist.	-3068 Sep 01 j 05:20	14°♃46'26	19.46874 AU	max. Earth dist.	-3060 Oct 08 j 02:53	21°♃27'50	19.91369 AU
retrograde	-3068 Sep 04 j 19:22	15°♃		retrograde	-3059 Jan 23 j 05:59	25°♃40'50	
retrograde	-3068 Dec 17 j 15:39	19°♃08'03		opposition	-3059 Apr 09 j 01:35	23°♃40'43	0°43'15
opposition	-3067 Mar 02 j 00:18	17°♃06'48	0°52'54	min. Earth dist.	-3059 Apr 08 j 20:26	23°♃41'15	17.94664 AU
min. Earth dist.	-3067 Mar 02 j 12:58	17°♃05'27	17.48887 AU	direct	-3059 Jun 25 j 09:07	21°♃38'43	
direct	-3067 May 18 j 06:34	15°♃01'32		conjunction	-3059 Oct 12 j 14:08	25°♃54'53	0°37'50
conjunction	-3067 Sep 06 j 17:04	19°♃28'53	0°47'29	minimum elong	-3059 Oct 12 j 14:08	25°♃54'53	0°37'50
minimum elong	-3067 Sep 06 j 17:04	19°♃28'53	0°47'32	max. Earth dist.	-3059 Oct 12 j 19:50	25°♃55'46	19.97980 AU
max. Earth dist.	-3067 Sep 06 j 04:02	19°♃26'50	19.50985 AU		-3058 Jan 10 j 23:53	0°♁	
retrograde	-3067 Dec 22 j 13:32	23°♃47'34		retrograde	-3058 Jan 27 j 21:56	0°♁07'39	
opposition	-3066 Mar 07 j 01:56	21°♃46'22	0°52'49		-3058 Feb 14 j 04:20	30°R♃	
min. Earth dist.	-3066 Mar 07 j 12:26	21°♃45'15	17.53256 AU	opposition	-3058 Apr 13 j 23:39	28°♃07'39	0°40'45
direct	-3066 May 23 j 08:53	19°♃41'23		min. Earth dist.	-3058 Apr 13 j 17:37	28°♃08'16	18.01293 AU
conjunction	-3066 Sep 11 j 13:43	24°♃07'32	0°47'16	direct	-3058 Jun 30 j 04:49	26°♃06'03	
minimum elong	-3066 Sep 11 j 13:43	24°♃07'32	0°47'20		-3058 Oct 11 j 13:30	0°♁	
max. Earth dist.	-3066 Sep 11 j 03:56	24°♃05'59	19.55610 AU	conjunction	-3058 Oct 17 j 04:08	0°♁20'38	0°35'30
retrograde	-3066 Dec 27 j 10:24	28°♃25'30		minimum elong	-3058 Oct 17 j 04:08	0°♁20'38	0°35'30
opposition	-3065 Mar 12 j 03:10	26°♃24'25	0°52'24	max. Earth dist.	-3058 Oct 17 j 11:21	0°♁21'45	20.04613 AU
min. Earth dist.	-3065 Mar 12 j 11:07	26°♃23'35	17.58118 AU	retrograde	-3057 Feb 01 j 15:29	4°♁32'35	
direct	-3065 May 28 j 10:59	24°♃19'47		opposition	-3057 Apr 18 j 20:40	2°♁32'41	0°38'02
conjunction	-3065 Sep 16 j 09:19	28°♃44'39	0°46'45	min. Earth dist.	-3057 Apr 18 j 11:47	2°♁33'36	18.07909 AU
minimum elong	-3065 Sep 16 j 09:18	28°♃44'39	0°46'48	direct	-3057 Jul 05 j 01:41	0°♁31'29	
max. Earth dist.	-3065 Sep 16 j 01:16	28°♃43'23	19.60717 AU	conjunction	-3057 Oct 21 j 17:18	4°♁44'29	0°32'58
retrograde	-3065 Oct 06 j 16:38	0°♃		minimum elong	-3057 Oct 21 j 17:19	4°♁44'29	0°32'58
retrograde	-3064 Jan 01 j 07:06	3°♃01'55		max. Earth dist.	-3057 Oct 22 j 02:48	4°♁45'55	20.11203 AU
opposition	-3064 Mar 16 j 04:02	1°♃00'59	0°51'39	retrograde	-3056 Feb 06 j 06:05	8°♁55'36	
min. Earth dist.	-3064 Mar 16 j 10:06	1°♃00'20	17.63454 AU	opposition	-3056 Apr 22 j 17:11	6°♁55'46	0°35'07
retrograde	-3064 Apr 10 j 10:15	30°R♃		min. Earth dist.	-3056 Apr 22 j 07:35	6°♁56'45	18.14476 AU
direct	-3064 Jun 01 j 11:36	28°♃56'43		direct	-3056 Jul 08 j 19:45	4°♁54'55	
conjunction	-3064 Jul 21 j 12:14	0°♃		conjunction	-3056 Oct 25 j 05:30	9°♁06'19	0°30'16
conjunction	-3064 Sep 20 j 04:13	3°♃20'16	0°45'56	minimum elong	-3056 Oct 25 j 05:30	9°♁06'19	0°30'15
minimum elong	-3064 Sep 20 j 04:13	3°♃20'16	0°45'59	max. Earth dist.	-3056 Oct 25 j 16:18	9°♁07'57	20.17751 AU
max. Earth dist.	-3064 Sep 19 j 23:07	3°♃19'28	19.66269 AU	retrograde	-3055 Feb 09 j 22:12	13°♁16'37	
retrograde	-3063 Jan 05 j 03:18	7°♃36'49		opposition	-3055 Apr 27 j 12:45	11°♁16'49	0°32'00
opposition	-3063 Mar 21 j 04:24	5°♃36'03	0°50'34	min. Earth dist.	-3055 Apr 27 j 00:17	11°♁18'05	18.20995 AU
min. Earth dist.	-3063 Mar 21 j 07:39	5°♃35'42	17.69182 AU	direct	-3055 Jul 13 j 14:41	9°♁16'19	
direct	-3063 Jun 06 j 12:56	3°♃32'14		conjunction	-3055 Oct 29 j 16:57	13°♁26'06	0°27'24
conjunction	-3063 Sep 24 j 22:12	7°♃54'23	0°44'51	minimum elong	-3055 Oct 29 j 16:57	13°♁26'06	0°27'23
minimum elong	-3063 Sep 24 j 22:12	7°♃54'23	0°44'53	max. Earth dist.	-3055 Oct 30 j 06:22	13°♁28'08	20.24247 AU
max. Earth dist.	-3063 Sep 24 j 19:08	7°♃53'54	19.72180 AU	retrograde	-3054 Feb 14 j 11:53	17°♁35'36	
retrograde	-3062 Jan 09 j 22:30	12°♃10'13		opposition	-3054 May 02 j 07:43	15°♁35'49	0°28'45
opposition	-3062 Mar 26 j 04:34	10°♃09'37	0°49'10	min. Earth dist.	-3054 May 01 j 18:23	15°♁37'11	18.27483 AU
min. Earth dist.	-3062 Mar 26 j 06:18	10°♃09'26	17.75257 AU	direct	-3054 Jul 18 j 07:25	13°♁35'39	
direct	-3062 Jun 11 j 12:16	8°♃06'15					

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Attention, astronomical year style is used: The year -3054 in astronomical counting style is the year 3055 BCE in historical counting style.

conjunction	-3054 Nov 03 j 03:27	17°♄43'52	0°24'25	direct	-3047 Aug 17 j 08:44	13°♁02'10	
minimum elong	-3054 Nov 03 j 03:27	17°♄43'52	0°24'24		-3047 Oct 26 j 14:48	15°♁	
max. Earth dist.	-3054 Nov 03 j 18:08	17°♄46'04	20.30728 AU				
retrograde	-3053 Feb 19 j 02:43	21°♄52'35		conjunction	-3047 Dec 01 j 12:42	17°♁01'06	0°01'22
min. Earth dist.	-3053 May 06 j 09:30	19°♄54'28	18.33955 AU	minimum elong	-3047 Dec 01 j 12:42	17°♁01'06	0°01'19
opposition	-3053 May 07 j 01:41	19°♄52'49	0°25'21	behind sun begin	-3047 Dec 01 j 06:10	17°♁00'10	
direct	-3053 Jul 23 j 00:07	17°♄52'59		behind sun end	-3047 Dec 01 j 19:14	17°♁02'07	
				max. Earth dist.	-3047 Dec 02 j 14:36	17°♁04'54	20.73684 AU
conjunction	-3053 Nov 07 j 13:24	21°♄59'41	0°21'20	retrograde	-3046 Mar 20 j 14:01	21°♁05'27	
minimum elong	-3053 Nov 07 j 13:24	21°♄59'41	0°21'17	desc. node	-3046 Apr 24 j 01:19	20°♁37'41	
max. Earth dist.	-3053 Nov 08 j 06:43	22°♄02'17	20.37179 AU	min. Earth dist.	-3046 Jun 05 j 10:23	19°♁08'46	18.76326 AU
retrograde	-3052 Feb 23 j 15:00	26°♄07'38		opposition	-3046 Jun 06 j 11:15	19°♁06'17	0°00'-26
opposition	-3052 May 10 j 18:51	24°♄07'55	0°21'51	direct	-3046 Aug 21 j 19:35	17°♁08'57	
min. Earth dist.	-3052 May 10 j 01:45	24°♄09'39	18.40400 AU				
direct	-3052 Jul 26 j 15:42	22°♄08'27		conjunction	-3046 Dec 05 j 19:09	21°♁06'49	0°-2'-7
				minimum elong	-3046 Dec 05 j 19:09	21°♁06'49	0°02'13
conjunction	-3052 Nov 10 j 22:34	26°♄13'41	0°18'09	behind sun begin	-3046 Dec 05 j 12:37	21°♁05'53	
minimum elong	-3052 Nov 10 j 22:34	26°♄13'41	0°18'06	behind sun end	-3046 Dec 06 j 01:41	21°♁07'45	
max. Earth dist.	-3052 Nov 11 j 16:52	26°♄16'25	20.43615 AU	max. Earth dist.	-3046 Dec 06 j 20:42	21°♁10'34	20.78829 AU
	-3051 Jan 29 j 10:28	0°♁		retrograde	-3045 Mar 25 j 01:42	25°♁10'44	
retrograde	-3051 Feb 27 j 05:07	0°♁20'56		opposition	-3045 Jun 10 j 23:42	23°♁11'37	0°-4'-11
	-3051 Mar 28 j 14:28	30°♁		min. Earth dist.	-3045 Jun 09 j 21:59	23°♁14'11	18.81264 AU
opposition	-3051 May 15 j 11:20	28°♄21'17	0°18'16	direct	-3045 Aug 26 j 05:43	21°♁14'32	
min. Earth dist.	-3051 May 14 j 15:35	28°♄23'16	18.46814 AU				
direct	-3051 Jul 31 j 06:11	26°♄22'10		conjunction	-3045 Dec 10 j 01:28	25°♁11'27	0°-5'-31
	-3051 Nov 08 j 00:41	0°♁		minimum elong	-3045 Dec 10 j 01:27	25°♁11'27	0°05'37
				behind sun begin	-3045 Dec 09 j 19:09	25°♁10'33	
conjunction	-3051 Nov 15 j 07:08	0°♁26'00	0°14'53	behind sun end	-3045 Dec 10 j 07:45	25°♁12'21	
minimum elong	-3051 Nov 15 j 07:08	0°♁26'00	0°14'50	max. Earth dist.	-3045 Dec 11 j 04:30	25°♁15'24	20.83526 AU
behind sun begin	-3051 Nov 15 j 04:20	0°♁25'35		retrograde	-3044 Mar 28 j 10:30	29°♁14'56	
behind sun end	-3051 Nov 15 j 09:55	0°♁26'24		min. Earth dist.	-3044 Jun 13 j 09:45	27°♁18'25	18.85726 AU
max. Earth dist.	-3051 Nov 16 j 04:03	0°♁29'07	20.49985 AU	opposition	-3044 Jun 14 j 11:31	27°♁15'51	0°-7'-55
retrograde	-3050 Mar 03 j 16:20	4°♁32'35		direct	-3044 Aug 29 j 15:31	25°♁19'01	
min. Earth dist.	-3050 May 19 j 06:36	2°♁35'06	18.53137 AU				
opposition	-3050 May 20 j 03:11	2°♁33'01	0°14'36	conjunction	-3044 Dec 13 j 07:22	29°♁15'00	0°-8'-50
direct	-3050 Aug 04 j 20:21	0°♁34'18		minimum elong	-3044 Dec 13 j 07:21	29°♁15'00	0°08'56
				behind sun begin	-3044 Dec 13 j 01:43	29°♁14'12	
conjunction	-3050 Nov 19 j 15:09	4°♁36'47	0°11'34	behind sun end	-3044 Dec 13 j 13:00	29°♁15'48	
minimum elong	-3050 Nov 19 j 15:09	4°♁36'47	0°11'30	max. Earth dist.	-3044 Dec 14 j 09:45	29°♁18'50	20.87757 AU
behind sun begin	-3050 Nov 19 j 10:23	4°♁36'05			-3044 Dec 26 j 05:50	0°♁	
behind sun end	-3050 Nov 19 j 19:56	4°♁37'28		retrograde	-3043 Apr 01 j 20:50	3°♁18'06	
max. Earth dist.	-3050 Nov 20 j 12:40	4°♁39'59	20.56249 AU	opposition	-3043 Jun 18 j 22:48	1°♁19'00	0°-11'-35
retrograde	-3049 Mar 08 j 05:39	8°♁42'45		min. Earth dist.	-3043 Jun 17 j 20:33	1°♁21'38	18.89725 AU
opposition	-3049 May 24 j 18:02	6°♁43'17	0°10'53		-3043 Jul 25 j 03:10	30°♁	
min. Earth dist.	-3049 May 23 j 19:25	6°♁45'33	18.59324 AU	direct	-3043 Sep 03 j 00:29	29°♁22'20	
direct	-3049 Aug 09 j 09:02	4°♁44'55			-3043 Oct 11 j 13:31	0°♁	
				conjunction	-3043 Dec 17 j 13:02	3°♁17'29	0°-12'-6
conjunction	-3049 Nov 23 j 22:49	8°♁46'09	0°08'12	minimum elong	-3043 Dec 17 j 13:01	3°♁17'29	0°12'13
minimum elong	-3049 Nov 23 j 22:49	8°♁46'09	0°08'09	behind sun begin	-3043 Dec 17 j 08:34	3°♁16'51	
behind sun begin	-3049 Nov 23 j 16:59	8°♁45'19		behind sun end	-3043 Dec 17 j 17:29	3°♁18'07	
behind sun end	-3049 Nov 24 j 04:39	8°♁47'00		max. Earth dist.	-3043 Dec 18 j 16:50	3°♁21'31	20.91512 AU
max. Earth dist.	-3049 Nov 24 j 22:35	8°♁49'40	20.62327 AU	retrograde	-3042 Apr 06 j 05:22	7°♁20'14	
retrograde	-3048 Mar 11 j 15:56	12°♁51'32		min. Earth dist.	-3042 Jun 22 j 07:09	5°♁23'43	18.93247 AU
min. Earth dist.	-3048 May 27 j 09:17	10°♁54'30	18.65289 AU	opposition	-3042 Jun 23 j 09:26	5°♁21'06	0°-15'-10
opposition	-3048 May 28 j 08:25	10°♁52'11	0°07'07	direct	-3042 Sep 07 j 09:21	3°♁24'34	
direct	-3048 Aug 12 j 21:23	8°♁54'12					
				conjunction	-3042 Dec 21 j 18:24	7°♁18'56	0°-15'-18
conjunction	-3048 Nov 27 j 05:48	12°♁54'14	0°04'49	minimum elong	-3042 Dec 21 j 18:24	7°♁18'56	0°15'24
minimum elong	-3048 Nov 27 j 05:48	12°♁54'14	0°04'44	behind sun begin	-3042 Dec 21 j 16:18	7°♁18'38	
behind sun begin	-3048 Nov 26 j 23:24	12°♁53'19		behind sun end	-3042 Dec 21 j 20:30	7°♁19'14	
behind sun end	-3048 Nov 27 j 12:11	12°♁55'09		max. Earth dist.	-3042 Dec 22 j 21:26	7°♁22'51	20.94820 AU
max. Earth dist.	-3048 Nov 28 j 05:45	12°♁57'46	20.68164 AU	retrograde	-3041 Apr 10 j 14:00	11°♁21'22	
retrograde	-3047 Jan 03 j 12:08	15°♁		opposition	-3041 Jun 27 j 19:16	9°♁22'10	0°-18'-39
retrograde	-3047 Mar 16 j 04:29	16°♁59'05		min. Earth dist.	-3041 Jun 26 j 16:46	9°♁24'49	18.96353 AU
opposition	-3047 Jun 01 j 22:10	14°♁59'49	0°03'20	direct	-3041 Sep 11 j 16:47	7°♁25'43	
min. Earth dist.	-3047 May 31 j 21:31	15°♁02'17	18.70985 AU				
	-3047 Jun 01 j 20:20	15°♁					

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Attention, astronomical year style is used: The year -3041 in astronomical counting style is the year 3042 BCE in historical counting style.

conjunction	-3041 Dec 25 j 23:39	11°♁19'25	0°-18'-24	conjunction	-3032 Jan 26 j 18:08	13°♁07'06	0°-38'-44
minimum elong	-3041 Dec 25 j 23:39	11°♁19'25	0°18'31	minimum elong	-3032 Jan 26 j 18:08	13°♁07'06	0°38'50
max. Earth dist.	-3041 Dec 27 j 04:04	11°♁23'31	20.97715 AU	max. Earth dist.	-3032 Jan 27 j 20:40	13°♁10'53	21.07492 AU
retrograde	-3040 Apr 13 j 22:10	15°♁21'35		retrograde	-3032 May 16 j 16:07	17°♁09'14	
min. Earth dist.	-3040 Jun 30 j 01:58	13°♁25'00	18.99060 AU	opposition	-3032 Aug 02 j 17:43	15°♁09'48	0°-43'-51
opposition	-3040 Jul 01 j 04:38	13°♁22'20	0°-22'-2	min. Earth dist.	-3032 Aug 01 j 18:14	15°♁12'10	19.07195 AU
direct	-3040 Sep 15 j 00:25	11°♁25'59		direct	-3032 Oct 16 j 18:51	13°♁13'46	
conjunction	-3040 Dec 29 j 04:29	15°♁19'04	0°-21'-24	conjunction	-3031 Jan 30 j 00:28	17°♁05'39	0°-40'-33
minimum elong	-3040 Dec 29 j 04:29	15°♁19'04	0°21'30	minimum elong	-3031 Jan 30 j 00:28	17°♁05'39	0°40'40
max. Earth dist.	-3040 Dec 30 j 08:09	15°♁23'04	21.00246 AU	max. Earth dist.	-3031 Jan 31 j 00:43	17°♁09'06	21.06671 AU
retrograde	-3039 Apr 18 j 06:13	19°♁21'03		retrograde	-3031 May 21 j 01:02	21°♁08'02	
min. Earth dist.	-3039 Jul 04 j 10:47	17°♁24'25	19.01425 AU	min. Earth dist.	-3031 Aug 06 j 02:41	19°♁10'43	19.06093 AU
opposition	-3039 Jul 05 j 13:35	17°♁21'44	0°-25'-18	opposition	-3031 Aug 07 j 00:31	19°♁08'31	0°-45'-45
direct	-3039 Sep 19 j 06:35	15°♁25'27		direct	-3031 Oct 20 j 22:38	17°♁12'22	
conjunction	-3038 Jan 02 j 09:34	19°♁18'04	0°-24'-18	conjunction	-3030 Feb 03 j 07:29	21°♁04'30	0°-42'-10
minimum elong	-3038 Jan 02 j 09:34	19°♁18'04	0°24'25	minimum elong	-3030 Feb 03 j 07:29	21°♁04'30	0°42'16
max. Earth dist.	-3038 Jan 03 j 14:30	19°♁22'13	21.02428 AU	max. Earth dist.	-3030 Feb 04 j 07:29	21°♁07'55	21.05281 AU
retrograde	-3038 Apr 22 j 13:58	23°♁19'52		retrograde	-3030 May 25 j 09:42	25°♁07'07	
opposition	-3038 Jul 09 j 21:52	21°♁20'32	0°-28'-25	min. Earth dist.	-3030 Aug 10 j 10:03	23°♁09'37	19.04414 AU
min. Earth dist.	-3038 Jul 08 j 18:57	21°♁23'14	19.03435 AU	opposition	-3030 Aug 11 j 06:56	23°♁07'30	0°-47'-26
direct	-3038 Sep 23 j 12:49	19°♁24'20		direct	-3030 Oct 25 j 04:36	21°♁11'12	
conjunction	-3037 Jan 06 j 14:30	23°♁16'33	0°-27'-4	conjunction	-3029 Feb 07 j 14:42	25°♁03'40	0°-43'-36
minimum elong	-3037 Jan 06 j 14:30	23°♁16'33	0°27'10	minimum elong	-3029 Feb 07 j 14:42	25°♁03'40	0°43'42
max. Earth dist.	-3037 Jan 07 j 18:21	23°♁20'33	21.04270 AU	max. Earth dist.	-3029 Feb 08 j 12:06	25°♁06'43	21.03340 AU
retrograde	-3037 Apr 26 j 22:21	27°♁18'17		retrograde	-3029 May 29 j 18:43	27°♁06'34	
min. Earth dist.	-3037 Jul 13 j 03:13	25°♁21'35	19.05105 AU	opposition	-3029 Aug 15 j 13:27	27°♁06'49	0°-48'-53
opposition	-3037 Jul 14 j 05:53	25°♁18'55	0°-31'-25	min. Earth dist.	-3029 Aug 14 j 18:26	27°♁08'44	19.02212 AU
direct	-3037 Sep 27 j 18:04	23°♁22'47		direct	-3029 Oct 29 j 08:58	25°♁10'19	
conjunction	-3036 Jan 10 j 19:33	27°♁14'43	0°-29'-42	conjunction	-3028 Feb 11 j 22:15	29°♁03'10	0°-44'-48
minimum elong	-3036 Jan 10 j 19:33	27°♁14'43	0°29'49	minimum elong	-3028 Feb 11 j 22:15	29°♁03'10	0°44'54
max. Earth dist.	-3036 Jan 12 j 00:27	27°♁18'51	21.05748 AU	max. Earth dist.	-3028 Feb 12 j 19:27	29°♁06'11	21.00890 AU
retrograde	-3036 Mar 03 j 17:23	0°♁		retrograde	-3028 Feb 28 j 16:16	0°≈	
min. Earth dist.	-3036 Jun 29 j 06:47	30°♁		opposition	-3028 Jun 02 j 03:28	3°≈06'24	
opposition	-3036 Jul 16 j 10:53	29°♁19'43	19.06392 AU	min. Earth dist.	-3028 Aug 18 j 19:49	1°≈06'30	0°-50'-6
direct	-3036 Jul 17 j 13:31	29°♁17'03	0°-34'-15	direct	-3028 Aug 18 j 01:34	1°≈08'21	18.99524 AU
conjunction	-3035 Jan 14 j 00:41	1°♁12'43	0°-32'-12	direct	-3028 Sep 16 j 18:08	30°♁	
minimum elong	-3035 Jan 14 j 00:41	1°♁12'43	0°32'19	conjunction	-3028 Nov 01 j 14:34	29°♁09'48	
max. Earth dist.	-3035 Jan 15 j 04:15	1°♁16'39	21.06853 AU	minimum elong	-3028 Dec 16 j 04:52	0°≈	
retrograde	-3035 May 04 j 14:40	5°♁14'28		conjunction	-3027 Feb 15 j 06:13	3°≈03'08	0°-45'-47
opposition	-3035 Jul 21 j 20:56	3°♁15'05	0°-36'-55	minimum elong	-3027 Feb 15 j 06:13	3°≈03'08	0°45'53
min. Earth dist.	-3035 Jul 20 j 19:00	3°♁17'41	19.07300 AU	max. Earth dist.	-3027 Feb 16 j 00:55	3°≈05'48	20.97998 AU
direct	-3035 Oct 05 j 03:56	1°♁19'03		retrograde	-3027 Jun 06 j 12:53	7°≈06'45	
conjunction	-3034 Jan 18 j 06:13	5°♁10'42	0°-34'-33	min. Earth dist.	-3027 Aug 22 j 09:48	5°≈08'21	18.96436 AU
minimum elong	-3034 Jan 18 j 06:12	5°♁10'42	0°34'39	opposition	-3027 Aug 23 j 02:10	5°≈06'41	0°-51'-5
max. Earth dist.	-3034 Jan 19 j 10:26	5°♁14'44	21.07542 AU	direct	-3027 Nov 05 j 19:20	3°≈09'43	
retrograde	-3034 May 08 j 22:48	9°♁12'32		conjunction	-3026 Feb 19 j 14:52	7°≈03'40	0°-46'-33
min. Earth dist.	-3034 Jul 25 j 02:33	7°♁15'43	19.07760 AU	minimum elong	-3026 Feb 19 j 14:52	7°≈03'40	0°46'40
opposition	-3034 Jul 26 j 04:03	7°♁13'09	0°-39'-25	max. Earth dist.	-3026 Feb 20 j 09:18	7°≈06'18	20.94719 AU
direct	-3034 Oct 09 j 09:21	5°♁17'09		retrograde	-3026 Jun 10 j 22:16	11°≈07'43	
conjunction	-3033 Jan 22 j 11:56	9°♁08'48	0°-36'-43	opposition	-3026 Aug 27 j 08:29	9°≈07'30	0°-51'-49
minimum elong	-3033 Jan 22 j 11:56	9°♁08'47	0°36'51	min. Earth dist.	-3026 Aug 26 j 16:51	9°≈09'06	18.92975 AU
max. Earth dist.	-3033 Jan 23 j 14:19	9°♁12'33	21.07771 AU	direct	-3026 Nov 10 j 00:43	7°≈10'19	
retrograde	-3033 May 13 j 07:30	13°♁10'46		conjunction	-3025 Feb 23 j 23:49	11°≈04'56	0°-47'-6
min. Earth dist.	-3033 Jul 29 j 10:43	11°♁13'48	19.07746 AU	minimum elong	-3025 Feb 23 j 23:49	11°≈04'56	0°47'11
opposition	-3033 Jul 30 j 10:55	11°♁11'22	0°-41'-44	max. Earth dist.	-3025 Feb 24 j 15:39	11°≈07'11	20.91097 AU
direct	-3033 Oct 13 j 13:03	9°♁15'21		retrograde	-3025 May 26 j 15:45	15°≈	
				retrograde	-3025 Jun 15 j 08:08	15°≈09'28	
				opposition	-3025 Jul 05 j 02:24	15°♁	
				min. Earth dist.	-3025 Aug 31 j 14:56	13°≈09'07	0°-52'-17
				direct	-3025 Aug 31 j 01:14	13°≈10'32	18.89202 AU

Attention, astronomical year style is used: The year -3025 in astronomical counting style is the year 3026 BCE in historical counting style.

direct	-3025 Nov 14 j 05:40	11°≈11'41		min. Earth dist.	-3017 Oct 03 j 06:03	16°≈08'54	18.48734 AU
	-3024 Feb 26 j 07:55	15°≈		direct	-3017 Dec 16 j 16:37	14°≈09'18	
conjunction	-3024 Feb 28 j 09:31	15°≈07'06	0°-47'-25	conjunction	-3016 Apr 02 j 18:28	18°≈13'51	0°-41'-18
minimum elong	-3024 Feb 28 j 09:31	15°≈07'06	0°47'30	minimum elong	-3016 Apr 02 j 18:28	18°≈13'51	0°41'21
max. Earth dist.	-3024 Feb 29 j 01:03	15°≈09'19	20.87178 AU	max. Earth dist.	-3016 Apr 02 j 17:14	18°≈13'40	20.45557 AU
retrograde	-3024 Jun 18 j 18:45	19°≈12'11		retrograde	-3016 Jul 22 j 22:03	22°≈24'37	
opposition	-3024 Sep 03 j 21:31	17°≈11'43	0°-52'-31	opposition	-3016 Oct 06 j 15:06	20°≈23'23	0°-44'-46
min. Earth dist.	-3024 Sep 03 j 08:29	17°≈13'03	18.85137 AU	min. Earth dist.	-3016 Oct 06 j 16:48	20°≈23'12	18.42309 AU
direct	-3024 Nov 17 j 11:39	15°≈14'03		direct	-3016 Dec 20 j 04:19	18°≈23'20	
conjunction	-3023 Mar 03 j 19:39	19°≈10'19	0°-47'-30	conjunction	-3015 Apr 07 j 11:16	22°≈29'14	0°-39'-27
minimum elong	-3023 Mar 03 j 19:39	19°≈10'19	0°47'34	minimum elong	-3015 Apr 07 j 11:16	22°≈29'14	0°39'29
max. Earth dist.	-3023 Mar 04 j 08:29	19°≈12'09	20.82988 AU	max. Earth dist.	-3015 Apr 07 j 06:42	22°≈28'34	20.39021 AU
retrograde	-3023 Jun 23 j 05:06	23°≈16'01		retrograde	-3015 Jul 27 j 11:15	26°≈40'46	
opposition	-3023 Sep 08 j 04:28	21°≈15'28	0°-52'-29	opposition	-3015 Oct 11 j 01:27	24°≈39'21	0°-42'-36
min. Earth dist.	-3023 Sep 07 j 17:35	21°≈16'35	18.80813 AU	min. Earth dist.	-3015 Oct 11 j 06:03	24°≈38'52	18.35679 AU
direct	-3023 Nov 21 j 16:44	19°≈17'33		direct	-3015 Dec 24 j 14:39	22°≈38'51	
conjunction	-3022 Mar 08 j 06:49	23°≈14'48	0°-47'-20	conjunction	-3014 Apr 12 j 05:03	26°≈46'11	0°-37'-22
minimum elong	-3022 Mar 08 j 06:49	23°≈14'48	0°47'25	minimum elong	-3014 Apr 12 j 05:03	26°≈46'11	0°37'23
max. Earth dist.	-3022 Mar 08 j 19:05	23°≈16'34	20.78532 AU	max. Earth dist.	-3014 Apr 11 j 23:02	26°≈45'18	20.32319 AU
retrograde	-3022 Jun 27 j 17:22	27°≈21'08		retrograde	-3014 Jun 13 j 14:20	0°≈	
opposition	-3022 Sep 12 j 11:26	25°≈20'31	0°-52'-12	retrograde	-3014 Aug 01 j 03:07	0°≈58'28	
min. Earth dist.	-3022 Sep 12 j 01:29	25°≈21'33	18.76215 AU	opposition	-3014 Sep 19 j 11:33	30°≈	
direct	-3022 Nov 25 j 23:59	23°≈22'23		min. Earth dist.	-3014 Oct 15 j 12:04	28°≈56'53	0°-40'-11
conjunction	-3021 Mar 12 j 18:33	27°≈20'41	0°-46'-57	direct	-3014 Oct 15 j 17:36	28°≈56'18	18.28913 AU
minimum elong	-3021 Mar 12 j 18:33	27°≈20'41	0°47'01	direct	-3014 Dec 29 j 03:30	26°≈55'57	
max. Earth dist.	-3021 Mar 13 j 03:51	27°≈22'01	20.73808 AU		-3013 Mar 29 j 11:05	0°≈	
retrograde	-3021 May 01 j 19:25	0°≈		conjunction	-3013 Apr 16 j 23:27	1°≈04'43	0°-35'-3
	-3021 Jul 02 j 04:01	1°≈27'43		minimum elong	-3013 Apr 16 j 23:27	1°≈04'43	0°35'04
	-3021 Sep 03 j 09:25	30°≈		max. Earth dist.	-3013 Apr 16 j 14:33	1°≈03'25	20.25516 AU
opposition	-3021 Sep 16 j 19:02	29°≈27'01	0°-51'-38	retrograde	-3013 Aug 05 j 17:35	5°≈17'47	
min. Earth dist.	-3021 Sep 16 j 11:31	29°≈27'48	18.71354 AU	opposition	-3013 Oct 19 j 23:31	3°≈16'02	0°-37'-31
direct	-3021 Nov 30 j 05:35	27°≈28'39		min. Earth dist.	-3013 Oct 20 j 07:44	3°≈15'09	18.22101 AU
	-3020 Feb 19 j 06:35	0°≈		direct	-3012 Jan 02 j 15:05	1°≈14'38	
conjunction	-3020 Mar 16 j 07:07	1°≈28'05	0°-46'-19	conjunction	-3012 Apr 20 j 18:36	5°≈24'54	0°-32'-32
minimum elong	-3020 Mar 16 j 07:07	1°≈28'05	0°46'22	minimum elong	-3012 Apr 20 j 18:36	5°≈24'54	0°32'33
max. Earth dist.	-3020 Mar 16 j 15:37	1°≈29'18	20.68804 AU	max. Earth dist.	-3012 Apr 20 j 08:23	5°≈23'24	20.18707 AU
retrograde	-3020 Jul 05 j 17:34	5°≈35'51		retrograde	-3012 Aug 09 j 10:57	9°≈38'45	
opposition	-3020 Sep 20 j 02:54	3°≈35'05	0°-50'-48	opposition	-3012 Oct 23 j 11:26	7°≈36'50	0°-34'-37
min. Earth dist.	-3020 Sep 19 j 20:29	3°≈35'46	18.66190 AU	min. Earth dist.	-3012 Oct 23 j 20:18	7°≈35'54	18.15303 AU
direct	-3020 Dec 03 j 14:25	1°≈36'28		direct	-3011 Jan 06 j 05:24	5°≈35'01	
conjunction	-3019 Mar 20 j 20:37	5°≈37'06	0°-45'-26	conjunction	-3011 Apr 25 j 14:41	9°≈46'48	0°-29'-49
minimum elong	-3019 Mar 20 j 20:37	5°≈37'06	0°45'30	minimum elong	-3011 Apr 25 j 14:41	9°≈46'48	0°29'49
max. Earth dist.	-3019 Mar 21 j 01:47	5°≈37'51	20.63487 AU	max. Earth dist.	-3011 Apr 25 j 02:00	9°≈44'56	20.11935 AU
retrograde	-3019 Jul 10 j 04:52	9°≈45'37		retrograde	-3011 Aug 14 j 02:33	14°≈01'25	
opposition	-3019 Sep 24 j 11:15	7°≈44'47	0°-49'-42	opposition	-3011 Oct 28 j 00:04	11°≈59'25	0°-31'-30
min. Earth dist.	-3019 Sep 24 j 07:43	7°≈45'09	18.60711 AU	min. Earth dist.	-3011 Oct 28 j 11:30	11°≈58'11	18.08586 AU
direct	-3019 Dec 07 j 21:25	5°≈45'51		direct	-3010 Jan 10 j 18:12	9°≈57'10	
conjunction	-3018 Mar 25 j 11:13	9°≈47'45	0°-44'-18	conjunction	-3010 Apr 30 j 11:38	14°≈10'31	0°-26'-55
minimum elong	-3018 Mar 25 j 11:13	9°≈47'45	0°44'20	minimum elong	-3010 Apr 30 j 11:38	14°≈10'31	0°26'54
max. Earth dist.	-3018 Mar 25 j 14:59	9°≈48'18	20.57838 AU	max. Earth dist.	-3010 Apr 29 j 21:25	14°≈08'24	20.05282 AU
retrograde	-3018 Jul 14 j 19:06	13°≈57'01		retrograde	-3010 Aug 18 j 21:35	18°≈25'56	
opposition	-3018 Sep 28 j 20:02	11°≈56'04	0°-48'-20	opposition	-3010 Nov 01 j 13:22	16°≈23'49	0°-28'-11
min. Earth dist.	-3018 Sep 28 j 17:43	11°≈56'19	18.54884 AU	min. Earth dist.	-3010 Nov 02 j 01:18	16°≈22'32	18.02001 AU
direct	-3018 Dec 12 j 07:54	9°≈56'49		direct	-3009 Jan 15 j 10:06	14°≈21'13	
conjunction	-3017 Mar 30 j 02:20	14°≈00'01	0°-42'-55	conjunction	-3009 May 05 j 09:11	18°≈36'07	0°-23'-50
minimum elong	-3017 Mar 30 j 02:20	14°≈00'01	0°42'58	minimum elong	-3009 May 05 j 09:11	18°≈36'07	0°23'49
max. Earth dist.	-3017 Mar 30 j 02:35	14°≈00'03	20.51844 AU	max. Earth dist.	-3009 May 04 j 17:05	18°≈33'43	19.98771 AU
retrograde	-3017 Jul 19 j 07:10	18°≈10'02		retrograde	-3009 Aug 23 j 14:37	22°≈52'21	
opposition	-3017 Oct 03 j 05:27	16°≈08'57	0°-46'-41	opposition	-3009 Nov 06 j 03:34	20°≈50'12	0°-24'-41

Attention, astronomical year style is used: The year -3009 in astronomical counting style is the year 3010 BCE in historical counting style.

min. Earth dist.	-3009 Nov 06 j 17:52	20° Υ 48'39	17.95584 AU	conjunction	-3002 Jun 07 j 14:28	20° C 30'32	0°01'28
direct	-3008 Jan 20 j 00:28	18° Υ 47'14		minimum elong	-3002 Jun 07 j 14:28	20° C 30'32	0°01'31
				behind sun begin	-3002 Jun 07 j 07:41	20° C 29'32	
conjunction	-3008 May 09 j 07:41	23° Υ 03'44	0°-20'-35	behind sun end	-3002 Jun 07 j 21:15	20° C 31'33	
minimum elong	-3008 May 09 j 07:41	23° Υ 03'44	0°20'33	retrograde	-3002 Sep 24 j 16:04	24° C 51'33	
max. Earth dist.	-3008 May 08 j 13:50	23° Υ 01'04	19.92454 AU	opposition	-3002 Dec 07 j 04:31	22° C 49'15	0°03'42
retrograde	-3008 Aug 27 j 10:59	27° Υ 20'45		min. Earth dist.	-3002 Dec 08 j 04:02	22° C 46'41	17.55526 AU
opposition	-3008 Nov 09 j 18:14	25° Υ 18'35	0°-20'-59	direct	-3001 Feb 20 j 16:09	20° C 44'05	
min. Earth dist.	-3008 Nov 10 j 09:09	25° Υ 16'58	17.89356 AU				
direct	-3007 Jan 23 j 17:42	23° Υ 15'18		conjunction	-3001 Jun 12 j 17:21	25° C 10'44	0°05'19
max. Earth dist.	-3007 May 13 j 11:41	27° Υ 30'30	19.86305 AU	minimum elong	-3001 Jun 12 j 17:21	25° C 10'44	0°05'24
				behind sun begin	-3001 Jun 12 j 10:49	25° C 09'45	
conjunction	-3007 May 14 j 07:08	27° Υ 33'25	0°-17'-11	behind sun end	-3001 Jun 12 j 23:53	25° C 11'43	
minimum elong	-3007 May 14 j 07:08	27° Υ 33'25	0°17'10	max. Earth dist.	-3001 Jun 11 j 13:05	25° C 06'23	19.53047 AU
	-3007 Jun 26 j 05:02	0° C		retrograde	-3001 Sep 29 j 14:02	29° C 32'12	
retrograde	-3007 Sep 01 j 05:56	1° C 51'12		opposition	-3001 Dec 12 j 00:52	27° C 29'51	0°07'58
	-3007 Nov 10 j 04:45	30° R Υ		min. Earth dist.	-3001 Dec 13 j 01:30	27° C 27'10	17.50705 AU
opposition	-3007 Nov 14 j 10:00	29° Υ 49'03	0°-17'-8	direct	-3000 Feb 25 j 15:56	25° C 24'22	
min. Earth dist.	-3007 Nov 15 j 03:22	29° Υ 47'10	17.83296 AU				
direct	-3006 Jan 28 j 10:03	27° Υ 45'28		conjunction	-3000 Jun 16 j 20:32	29° C 52'09	0°09'08
	-3006 Apr 13 j 09:32	0° C		minimum elong	-3000 Jun 16 j 20:32	29° C 52'09	0°09'13
max. Earth dist.	-3006 May 18 j 09:37	2° C 01'53	19.80328 AU	behind sun begin	-3000 Jun 16 j 14:51	29° C 51'17	
				behind sun end	-3000 Jun 17 j 02:13	29° C 53'00	
conjunction	-3006 May 19 j 07:15	2° C 05'09	0°-13'-39	max. Earth dist.	-3000 Jun 15 j 14:18	29° C 47'28	19.48417 AU
minimum elong	-3006 May 19 j 07:15	2° C 05'09	0°13'36		-3000 Jun 18 j 23:20	0° II	
behind sun begin	-3006 May 19 j 03:43	2° C 04'38		retrograde	-3000 Oct 03 j 11:51	4° II 14'00	
behind sun end	-3006 May 19 j 10:46	2° C 05'40		opposition	-3000 Dec 15 j 21:43	2° II 11'36	0°12'13
retrograde	-3006 Sep 06 j 03:19	6° C 23'41		min. Earth dist.	-3000 Dec 16 j 22:56	2° II 08'51	17.46290 AU
opposition	-3006 Nov 19 j 02:25	4° C 21'32	0°-13'-8	direct	-2999 Mar 01 j 16:17	0° II 05'49	
min. Earth dist.	-3006 Nov 19 j 20:30	4° C 19'34	17.77398 AU	max. Earth dist.	-2999 Jun 20 j 18:35	4° II 30'03	19.44214 AU
direct	-3005 Feb 02 j 04:55	2° C 17'39					
max. Earth dist.	-3005 May 23 j 09:23	6° C 35'25	19.74492 AU	conjunction	-2999 Jun 22 j 00:08	4° II 34'38	0°12'53
				minimum elong	-2999 Jun 22 j 00:08	4° II 34'38	0°12'58
conjunction	-3005 May 24 j 08:12	6° C 38'52	0°-10'00	behind sun begin	-2999 Jun 21 j 20:08	4° II 34'02	
minimum elong	-3005 May 24 j 08:12	6° C 38'52	0°09'58	behind sun end	-2999 Jun 22 j 04:08	4° II 35'14	
behind sun begin	-3005 May 24 j 02:46	6° C 38'04		retrograde	-2999 Oct 08 j 10:48	8° II 56'49	
behind sun end	-3005 May 24 j 13:39	6° C 39'41		opposition	-2999 Dec 20 j 19:25	6° II 54'23	0°16'23
retrograde	-3005 Sep 10 j 23:35	10° C 58'07		min. Earth dist.	-2999 Dec 21 j 20:57	6° II 51'36	17.42326 AU
opposition	-3005 Nov 23 j 19:51	8° C 55'57	0°-9'-1	direct	-2998 Mar 06 j 17:33	4° II 48'20	
min. Earth dist.	-3005 Nov 24 j 16:09	8° C 53'44	17.71647 AU	max. Earth dist.	-2998 Jun 25 j 20:47	9° II 13'16	19.40506 AU
direct	-3004 Feb 06 j 23:25	6° C 51'45					
max. Earth dist.	-3004 May 27 j 08:20	11° C 10'35	19.68822 AU	conjunction	-2998 Jun 27 j 03:34	9° II 18'03	0°16'35
				minimum elong	-2998 Jun 27 j 03:34	9° II 18'03	0°16'41
conjunction	-3004 May 28 j 09:39	11° C 14'27	0°-6'-17	retrograde	-2998 Oct 13 j 09:37	13° II 40'31	
minimum elong	-3004 May 28 j 09:38	11° C 14'27	0°06'14	opposition	-2998 Dec 25 j 17:45	11° II 38'04	0°20'27
behind sun begin	-3004 May 28 j 03:14	11° C 13'29		min. Earth dist.	-2998 Dec 26 j 19:35	11° II 35'15	17.38905 AU
behind sun end	-3004 May 28 j 16:03	11° C 15'24		direct	-2997 Mar 11 j 18:37	9° II 31'46	
	-3004 Aug 10 j 03:45	15° C		max. Earth dist.	-2997 Jul 01 j 01:37	13° II 57'41	19.37369 AU
retrograde	-3004 Sep 14 j 21:25	15° C 34'21					
	-3004 Oct 21 j 00:05	15° R C		conjunction	-2997 Jul 02 j 07:17	14° II 02'19	0°20'10
opposition	-3004 Nov 27 j 13:57	13° C 32'08	0°-4'-50	minimum elong	-2997 Jul 02 j 07:17	14° II 02'19	0°20'15
min. Earth dist.	-3004 Nov 28 j 11:01	13° C 29'51	17.66061 AU	retrograde	-2997 Oct 18 j 09:40	18° II 24'59	
direct	-3003 Feb 10 j 20:11	11° C 27'37		opposition	-2997 Dec 30 j 16:35	16° II 22'33	0°24'24
	-3003 May 19 j 07:54	15° C		min. Earth dist.	-2997 Dec 31 j 17:54	16° II 19'47	17.36065 AU
max. Earth dist.	-3003 Jun 01 j 09:54	15° C 47'45	19.63314 AU	direct	-2996 Mar 15 j 20:28	14° II 16'06	
				max. Earth dist.	-2996 Jul 05 j 04:45	18° II 42'36	19.34836 AU
conjunction	-3003 Jun 02 j 11:55	15° C 51'44	0°-2'-29				
minimum elong	-3003 Jun 02 j 11:55	15° C 51'44	0°02'25	conjunction	-2996 Jul 06 j 10:57	18° II 47'20	0°23'38
behind sun begin	-3003 Jun 02 j 05:08	15° C 50'43		minimum elong	-2996 Jul 06 j 10:57	18° II 47'20	0°23'44
behind sun end	-3003 Jun 02 j 18:42	15° C 52'44		retrograde	-2996 Oct 22 j 09:26	23° II 10'10	
retrograde	-3003 Sep 19 j 18:31	20° C 12'12		opposition	-2995 Jan 03 j 16:07	21° II 07'47	0°28'11
opposition	-3003 Dec 02 j 08:52	18° C 09'58	0°00'-34	min. Earth dist.	-2995 Jan 04 j 17:43	21° II 04'59	17.33855 AU
min. Earth dist.	-3003 Dec 03 j 07:45	18° C 07'28	17.60659 AU	direct	-2995 Mar 20 j 21:46	19° II 01'13	
asc. node	-3002 Jan 21 j 22:14	16° C 21'18		max. Earth dist.	-2995 Jul 10 j 09:39	23° II 28'29	19.32938 AU
direct	-3002 Feb 15 j 17:31	16° C 05'07					
max. Earth dist.	-3002 Jun 06 j 10:04	20° C 26'11	19.58038 AU	conjunction	-2995 Jul 11 j 14:42	23° II 33'02	0°26'57
				minimum elong	-2995 Jul 11 j 14:42	23° II 33'02	0°27'03

Attention, astronomical year style is used: The year -2995 in astronomical counting style is the year 2996 BCE in historical counting style.

retrograde	-2995 Oct 27 j 10:19	27°II55'57		conjunction	-2987 Aug 19 j 10:45	1°Ω45'33	0°45'15
opposition	-2994 Jan 08 j 16:09	25°II53'41	0°31'48	minimum elong	-2987 Aug 19 j 10:45	1°Ω45'33	0°45'20
min. Earth dist.	-2994 Jan 09 j 16:39	25°II51'01	17.32258 AU	max. Earth dist.	-2987 Aug 18 j 13:18	1°Ω42'10	19.37169 AU
direct	-2994 Mar 26 j 00:49	23°II47'05		retrograde	-2987 Dec 04 j 09:20	6°Ω06'43	
conjunction	-2994 Jul 16 j 18:20	28°II19'22	0°30'05	opposition	-2986 Feb 16 j 06:28	4°Ω05'15	0°51'02
minimum elong	-2994 Jul 16 j 18:20	28°II19'22	0°30'11	min. Earth dist.	-2986 Feb 17 j 00:08	4°Ω03'21	17.38482 AU
max. Earth dist.	-2994 Jul 15 j 13:35	28°II14'50	19.31648 AU	direct	-2986 May 04 j 09:45	1°Ω59'21	
	-2994 Aug 13 j 00:53	0°☾		conjunction	-2986 Aug 24 j 10:47	6°Ω29'46	0°46'14
retrograde	-2994 Nov 01 j 10:03	2°☾42'20		minimum elong	-2986 Aug 24 j 10:47	6°Ω29'46	0°46'20
opposition	-2993 Jan 13 j 16:51	0°☾40'10	0°35'11	max. Earth dist.	-2986 Aug 23 j 16:20	6°Ω26'51	19.39849 AU
min. Earth dist.	-2993 Jan 14 j 17:42	0°☾37'28	17.31277 AU	retrograde	-2986 Dec 09 j 07:13	10°Ω50'22	
	-2993 Jan 29 j 07:53	30°RII		opposition	-2985 Feb 21 j 08:44	8°Ω48'58	0°51'58
direct	-2993 Mar 31 j 02:29	28°II33'35		min. Earth dist.	-2985 Feb 22 j 01:24	8°Ω47'11	17.41406 AU
	-2993 May 28 j 18:11	0°☾		direct	-2985 May 09 j 13:07	6°Ω43'15	
conjunction	-2993 Jul 21 j 21:41	3°☾06'10	0°33'02	conjunction	-2985 Aug 29 j 09:46	11°Ω12'45	0°46'55
minimum elong	-2993 Jul 21 j 21:41	3°☾06'10	0°33'08	minimum elong	-2985 Aug 29 j 09:46	11°Ω12'44	0°46'59
max. Earth dist.	-2993 Jul 20 j 17:53	3°☾01'47	19.30956 AU	max. Earth dist.	-2985 Aug 28 j 16:15	11°Ω09'59	19.43035 AU
retrograde	-2993 Nov 06 j 11:25	7°☾29'06			-2985 Nov 09 j 20:41	15°Ω	
opposition	-2992 Jan 18 j 17:54	5°☾27'04	0°38'21	retrograde	-2985 Dec 14 j 05:58	15°Ω32'46	
min. Earth dist.	-2992 Jan 19 j 17:19	5°☾24'31	17.30850 AU		-2984 Jan 18 j 15:55	15°RΩ	
direct	-2992 Apr 04 j 07:03	3°☾20'32		opposition	-2984 Feb 26 j 10:44	13°Ω31'25	0°52'32
max. Earth dist.	-2992 Jul 24 j 22:07	7°☾49'02	19.30788 AU	min. Earth dist.	-2984 Feb 27 j 01:01	13°Ω29'53	17.44851 AU
				direct	-2984 May 13 j 16:05	11°Ω25'53	
conjunction	-2992 Jul 26 j 01:02	7°☾53'17	0°35'45		-2984 Aug 18 j 20:41	15°Ω	
minimum elong	-2992 Jul 26 j 01:02	7°☾53'17	0°35'50	conjunction	-2984 Sep 02 j 08:06	15°Ω54'24	0°47'16
retrograde	-2992 Nov 10 j 10:40	12°☾16'06		minimum elong	-2984 Sep 02 j 08:06	15°Ω54'24	0°47'20
opposition	-2991 Jan 22 j 19:26	10°☾14'12	0°41'15	max. Earth dist.	-2984 Sep 01 j 17:54	15°Ω52'09	19.46741 AU
min. Earth dist.	-2991 Jan 23 j 19:17	10°☾11'37	17.30946 AU	retrograde	-2984 Dec 18 j 03:58	20°Ω13'45	
direct	-2991 Apr 09 j 09:40	8°☾07'44		opposition	-2983 Mar 02 j 12:33	18°Ω12'30	0°52'45
max. Earth dist.	-2991 Jul 30 j 01:38	12°☾36'19	19.31135 AU	min. Earth dist.	-2983 Mar 03 j 01:04	18°Ω11'10	17.48814 AU
				direct	-2983 May 18 j 19:02	16°Ω07'14	
conjunction	-2991 Jul 31 j 04:01	12°☾40'29	0°38'13	conjunction	-2983 Sep 07 j 05:27	20°Ω34'38	0°47'19
minimum elong	-2991 Jul 31 j 04:00	12°☾40'29	0°38'18	minimum elong	-2983 Sep 07 j 05:27	20°Ω34'38	0°47'23
retrograde	-2991 Nov 15 j 11:53	17°☾03'08		max. Earth dist.	-2983 Sep 06 j 16:36	20°Ω32'36	19.50981 AU
opposition	-2990 Jan 27 j 21:20	15°☾01'20	0°43'51	retrograde	-2983 Dec 23 j 01:37	24°Ω53'21	
min. Earth dist.	-2990 Jan 28 j 19:24	14°☾58'57	17.31528 AU	opposition	-2982 Mar 07 j 14:09	22°Ω52'11	0°52'37
direct	-2990 Apr 14 j 15:17	12°☾54'58		min. Earth dist.	-2982 Mar 08 j 00:17	22°Ω51'07	17.53323 AU
max. Earth dist.	-2990 Aug 04 j 05:50	17°☾23'38	19.31949 AU	direct	-2982 May 23 j 20:00	20°Ω47'14	
				conjunction	-2982 Sep 12 j 01:59	25°Ω13'26	0°47'04
conjunction	-2990 Aug 05 j 06:31	17°☾27'32	0°40'25	minimum elong	-2982 Sep 12 j 01:59	25°Ω13'26	0°47'06
minimum elong	-2990 Aug 05 j 06:31	17°☾27'32	0°40'30	max. Earth dist.	-2982 Sep 11 j 16:33	25°Ω11'57	19.55749 AU
retrograde	-2990 Nov 20 j 10:47	21°☾49'56		retrograde	-2982 Dec 27 j 23:35	29°Ω31'27	
opposition	-2989 Feb 01 j 23:37	19°☾48'15	0°46'09	opposition	-2981 Mar 12 j 15:23	27°Ω30'26	0°52'08
min. Earth dist.	-2989 Feb 02 j 21:47	19°☾45'51	17.32578 AU	min. Earth dist.	-2981 Mar 12 j 23:13	27°Ω29'37	17.58318 AU
direct	-2989 Apr 19 j 18:41	17°☾41'58		direct	-2981 May 28 j 22:47	25°Ω25'52	
max. Earth dist.	-2989 Aug 09 j 08:14	22°☾10'23	19.33234 AU				
				conjunction	-2981 Sep 16 j 21:41	29°Ω50'48	0°46'30
conjunction	-2989 Aug 10 j 08:31	22°☾14'14	0°42'20	minimum elong	-2981 Sep 16 j 21:41	29°Ω50'48	0°46'33
minimum elong	-2989 Aug 10 j 08:31	22°☾14'14	0°42'24	max. Earth dist.	-2981 Sep 16 j 13:48	29°Ω49'34	19.60980 AU
retrograde	-2989 Nov 25 j 11:21	26°☾36'16			-2981 Sep 19 j 08:26	0°♃	
opposition	-2988 Feb 07 j 01:42	24°☾34'40	0°48'08	retrograde	-2980 Jan 01 j 19:30	4°♃08'06	
min. Earth dist.	-2988 Feb 07 j 21:53	24°☾32'30	17.34087 AU	opposition	-2980 Mar 16 j 16:07	2°♃07'15	0°51'20
direct	-2988 Apr 24 j 00:45	22°☾28'30		min. Earth dist.	-2980 Mar 16 j 22:03	2°♃06'37	17.63763 AU
				direct	-2980 Jun 01 j 22:45	0°♃03'04	
conjunction	-2988 Aug 14 j 10:07	27°☾00'18	0°43'57	conjunction	-2980 Sep 20 j 16:41	4°♃26'40	0°45'39
minimum elong	-2988 Aug 14 j 10:07	27°☾00'18	0°44'02	minimum elong	-2980 Sep 20 j 16:41	4°♃26'40	0°45'41
max. Earth dist.	-2988 Aug 13 j 12:06	26°☾56'50	19.34968 AU	max. Earth dist.	-2980 Sep 20 j 11:50	4°♃25'55	19.66622 AU
	-2988 Oct 05 j 07:03	0°Ω		retrograde	-2979 Jan 05 j 16:30	8°♃43'14	
retrograde	-2988 Nov 29 j 09:31	1°Ω21'56		opposition	-2979 Mar 21 j 16:38	6°♃42'33	0°50'12
	-2987 Jan 26 j 12:52	30°R☾		min. Earth dist.	-2979 Mar 21 j 20:00	6°♃42'12	17.69562 AU
opposition	-2987 Feb 11 j 04:10	29°☾20'25	0°49'45	direct	-2979 Jun 07 j 01:07	4°♃38'49	
min. Earth dist.	-2987 Feb 12 j 00:03	29°☾18'17	17.36046 AU				
direct	-2987 Apr 29 j 04:31	27°☾14'23					
	-2987 Jul 21 j 21:02	0°Ω					

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Attention, astronomical year style is used: The year -2979 in astronomical counting style is the year 2980 BCE in historical counting style.

conjunction	-2979 Sep 25 j 10:38	9° \mathbb{M} 01'00	0°44'30	conjunction	-2971 Oct 30 j 04:49	14° \mathbb{L} 30'08	0°26'52
minimum elong	-2979 Sep 25 j 10:38	9° \mathbb{M} 01'00	0°44'32	minimum elong	-2971 Oct 30 j 04:49	14° \mathbb{L} 30'08	0°26'51
max. Earth dist.	-2979 Sep 25 j 07:34	9° \mathbb{M} 00'31	19.72577 AU	max. Earth dist.	-2971 Oct 30 j 18:12	14° \mathbb{L} 32'10	20.24389 AU
retrograde	-2978 Jan 10 j 11:01	13° \mathbb{M} 16'50		retrograde	-2970 Feb 14 j 22:26	18° \mathbb{L} 39'27	
opposition	-2978 Mar 26 j 16:49	11° \mathbb{M} 16'17	0°48'46	opposition	-2970 May 02 j 19:02	16° \mathbb{L} 39'34	0°28'08
min. Earth dist.	-2978 Mar 26 j 18:38	11° \mathbb{M} 16'06	17.75659 AU	min. Earth dist.	-2970 May 02 j 05:33	16° \mathbb{L} 40'57	18.27679 AU
direct	-2978 Jun 12 j 00:02	9° \mathbb{M} 12'59		direct	-2970 Jul 18 j 19:34	14° \mathbb{L} 39'18	
conjunction	-2978 Sep 30 j 03:57	13° \mathbb{M} 33'42	0°43'05	conjunction	-2970 Nov 03 j 15:19	18° \mathbb{L} 47'24	0°23'53
minimum elong	-2978 Sep 30 j 03:57	13° \mathbb{M} 33'42	0°43'07	minimum elong	-2970 Nov 03 j 15:19	18° \mathbb{L} 47'24	0°23'50
max. Earth dist.	-2978 Sep 30 j 03:27	13° \mathbb{M} 33'37	19.78793 AU	max. Earth dist.	-2970 Nov 04 j 06:07	18° \mathbb{L} 49'37	20.30986 AU
retrograde	-2977 Jan 15 j 06:32	17° \mathbb{M} 48'44		retrograde	-2969 Feb 19 j 13:25	22° \mathbb{L} 55'55	
opposition	-2977 Mar 31 j 16:14	15° \mathbb{M} 48'21	0°47'02	opposition	-2969 May 07 j 12:40	20° \mathbb{L} 56'07	0°24'45
min. Earth dist.	-2977 Mar 31 j 15:21	15° \mathbb{M} 48'27	17.81960 AU	min. Earth dist.	-2969 May 06 j 20:15	20° \mathbb{L} 57'47	18.34285 AU
direct	-2977 Jun 17 j 01:05	13° \mathbb{M} 45'29		direct	-2969 Jul 23 j 12:32	18° \mathbb{L} 56'14	
conjunction	-2977 Oct 04 j 20:23	18° \mathbb{M} 04'41	0°41'25	conjunction	-2969 Nov 08 j 01:09	23° \mathbb{L} 02'51	0°20'47
minimum elong	-2977 Oct 04 j 20:23	18° \mathbb{M} 04'41	0°41'25	minimum elong	-2969 Nov 08 j 01:09	23° \mathbb{L} 02'51	0°20'45
max. Earth dist.	-2977 Oct 04 j 21:39	18° \mathbb{M} 04'53	19.85170 AU	max. Earth dist.	-2969 Nov 08 j 18:28	23° \mathbb{L} 05'27	20.37586 AU
retrograde	-2976 Jan 19 j 23:41	22° \mathbb{M} 18'56		retrograde	-2968 Feb 24 j 01:34	27° \mathbb{L} 10'39	
opposition	-2976 Apr 04 j 15:20	20° \mathbb{M} 18'41	0°45'00	opposition	-2968 May 11 j 05:51	25° \mathbb{L} 10'57	0°21'15
min. Earth dist.	-2976 Apr 04 j 13:19	20° \mathbb{M} 18'53	17.88404 AU	min. Earth dist.	-2968 May 10 j 12:36	25° \mathbb{L} 12'42	18.40882 AU
direct	-2976 Jun 20 j 22:26	18° \mathbb{M} 16'12		direct	-2968 Jul 27 j 02:18	23° \mathbb{L} 11'28	
conjunction	-2976 Oct 08 j 11:57	22° \mathbb{M} 33'52	0°39'29	conjunction	-2968 Nov 11 j 10:08	27° \mathbb{L} 16'39	0°17'36
minimum elong	-2976 Oct 08 j 11:57	22° \mathbb{M} 33'52	0°39'30	minimum elong	-2968 Nov 11 j 10:08	27° \mathbb{L} 16'39	0°17'33
max. Earth dist.	-2976 Oct 08 j 15:17	22° \mathbb{M} 34'23	19.91658 AU	max. Earth dist.	-2968 Nov 12 j 04:37	27° \mathbb{L} 19'24	20.44170 AU
retrograde	-2975 Jan 23 j 18:03	26° \mathbb{M} 47'17			-2968 Dec 31 j 00:32	0° \mathbb{M}	
opposition	-2975 Apr 09 j 13:43	24° \mathbb{M} 47'09	0°42'43	retrograde	-2967 Feb 27 j 15:39	1° \mathbb{M} 23'47	
min. Earth dist.	-2975 Apr 09 j 08:50	24° \mathbb{M} 47'39	17.94913 AU		-2967 Apr 30 j 22:13	30° \mathbb{R} \mathbb{L}	
direct	-2975 Jun 25 j 21:35	22° \mathbb{M} 45'05		opposition	-2967 May 15 j 22:16	29° \mathbb{L} 24'11	0°17'40
				min. Earth dist.	-2967 May 15 j 02:20	29° \mathbb{L} 26'12	18.47433 AU
conjunction	-2975 Oct 13 j 02:44	27° \mathbb{M} 01'09	0°37'20	direct	-2967 Jul 31 j 17:44	27° \mathbb{L} 25'07	
minimum elong	-2975 Oct 13 j 02:44	27° \mathbb{M} 01'09	0°37'21		-2967 Oct 21 j 09:20	0° \mathbb{M}	
max. Earth dist.	-2975 Oct 13 j 08:02	27° \mathbb{M} 01'58	19.98187 AU				
	-2975 Dec 05 j 19:14	0° \mathbb{L}		conjunction	-2967 Nov 15 j 18:43	1° \mathbb{M} 28'55	0°14'20
retrograde	-2974 Jan 28 j 10:00	1° \mathbb{L} 13'45		minimum elong	-2967 Nov 15 j 18:43	1° \mathbb{M} 28'55	0°14'18
	-2974 Mar 26 j 05:27	30° \mathbb{R} \mathbb{M}		behind sun begin	-2967 Nov 15 j 15:29	1° \mathbb{M} 28'27	
opposition	-2974 Apr 14 j 11:36	29° \mathbb{M} 13'42	0°40'12	behind sun end	-2967 Nov 15 j 21:58	1° \mathbb{M} 29'24	
min. Earth dist.	-2974 Apr 14 j 05:48	29° \mathbb{M} 14'18	18.01460 AU	max. Earth dist.	-2967 Nov 16 j 15:40	1° \mathbb{M} 32'03	20.50666 AU
direct	-2974 Jun 30 j 17:20	27° \mathbb{M} 12'01		retrograde	-2966 Mar 04 j 03:33	5° \mathbb{M} 35'25	
	-2974 Sep 23 j 17:20	0° \mathbb{L}		opposition	-2966 May 20 j 13:59	3° \mathbb{M} 35'57	0°14'00
				min. Earth dist.	-2966 May 19 j 17:29	3° \mathbb{M} 38'01	18.53871 AU
conjunction	-2974 Oct 17 j 16:33	1° \mathbb{L} 26'28	0°34'59	direct	-2966 Aug 05 j 06:07	1° \mathbb{M} 37'17	
minimum elong	-2974 Oct 17 j 16:33	1° \mathbb{L} 26'28	0°34'59				
max. Earth dist.	-2974 Oct 17 j 23:35	1° \mathbb{L} 27'32	20.04743 AU	conjunction	-2966 Nov 20 j 02:41	5° \mathbb{M} 39'46	0°11'01
retrograde	-2973 Feb 02 j 03:09	5° \mathbb{L} 38'14		minimum elong	-2966 Nov 20 j 02:40	5° \mathbb{M} 39'46	0°10'58
opposition	-2973 Apr 19 j 08:32	3° \mathbb{L} 38'14	0°37'27	behind sun begin	-2966 Nov 19 j 21:41	5° \mathbb{M} 39'03	
min. Earth dist.	-2973 Apr 18 j 23:51	3° \mathbb{L} 39'07	18.08004 AU	behind sun end	-2966 Nov 20 j 07:39	5° \mathbb{M} 40'30	
direct	-2973 Jul 05 j 14:34	1° \mathbb{L} 36'54		max. Earth dist.	-2966 Nov 21 j 00:17	5° \mathbb{M} 42'59	20.57028 AU
				retrograde	-2965 Mar 08 j 16:32	9° \mathbb{M} 45'40	
conjunction	-2973 Oct 22 j 05:33	5° \mathbb{L} 49'45	0°32'26	min. Earth dist.	-2965 May 24 j 06:21	7° \mathbb{M} 48'35	18.60134 AU
minimum elong	-2973 Oct 22 j 05:33	5° \mathbb{L} 49'45	0°32'25	opposition	-2965 May 25 j 04:56	7° \mathbb{M} 46'19	0°10'17
max. Earth dist.	-2973 Oct 22 j 14:46	5° \mathbb{L} 51'09	20.11279 AU	direct	-2965 Aug 09 j 19:46	5° \mathbb{M} 48'03	
retrograde	-2972 Feb 06 j 17:29	10° \mathbb{L} 00'40					
opposition	-2972 Apr 23 j 04:47	8° \mathbb{L} 00'43	0°34'31	conjunction	-2965 Nov 24 j 10:15	9° \mathbb{M} 49'17	0°07'40
min. Earth dist.	-2972 Apr 22 j 19:18	8° \mathbb{L} 01'41	18.14544 AU	minimum elong	-2965 Nov 24 j 10:15	9° \mathbb{M} 49'17	0°07'35
direct	-2972 Jul 09 j 08:29	5° \mathbb{L} 59'44		behind sun begin	-2965 Nov 24 j 04:18	9° \mathbb{M} 48'26	
				behind sun end	-2965 Nov 24 j 16:12	9° \mathbb{M} 50'09	
conjunction	-2972 Oct 25 j 17:38	10° \mathbb{L} 10'57	0°29'43	max. Earth dist.	-2965 Nov 25 j 09:59	9° \mathbb{M} 52'48	20.63160 AU
minimum elong	-2972 Oct 25 j 17:38	10° \mathbb{L} 10'58	0°29'42	retrograde	-2964 Mar 12 j 03:41	13° \mathbb{M} 54'37	
max. Earth dist.	-2972 Oct 26 j 04:27	10° \mathbb{L} 12'36	20.17830 AU	opposition	-2964 May 28 j 19:19	11° \mathbb{M} 55'23	0°06'31
retrograde	-2971 Feb 10 j 09:27	14° \mathbb{L} 21'03		min. Earth dist.	-2964 May 27 j 20:26	11° \mathbb{M} 57'40	18.66136 AU
min. Earth dist.	-2971 Apr 27 j 11:41	12° \mathbb{L} 22'25	18.21098 AU	direct	-2964 Aug 13 j 07:39	9° \mathbb{M} 57'29	
opposition	-2971 Apr 28 j 00:13	12° \mathbb{L} 21'08	0°31'24				
direct	-2971 Jul 14 j 03:42	10° \mathbb{L} 20'30		conjunction	-2964 Nov 27 j 17:22	13° \mathbb{M} 57'31	0°04'17
				minimum elong	-2964 Nov 27 j 17:22	13° \mathbb{M} 57'31	0°04'13

Attention, astronomical year style is used: The year -2964 in astronomical counting style is the year 2965 BCE in historical counting style.

behind sun begin	-2964 Nov 27 j 10:56	13° \mathbb{M} 56'36		behind sun begin	-2958 Dec 22 j 03:44	8° \mathbb{Z} 20'55	
behind sun end	-2964 Nov 27 j 23:48	13° \mathbb{M} 58'27		behind sun end	-2958 Dec 22 j 06:39	8° \mathbb{Z} 21'19	
max. Earth dist.	-2964 Nov 28 j 17:17	14° \mathbb{M} 01'03	20.69017 AU	max. Earth dist.	-2958 Dec 23 j 08:19	8° \mathbb{Z} 25'02	20.95587 AU
	-2964 Dec 15 j 13:06	15° \mathbb{M}		retrograde	-2957 Apr 11 j 00:28	12° \mathbb{Z} 23'18	
retrograde	-2963 Mar 16 j 15:39	18° \mathbb{M} 02'19		min. Earth dist.	-2957 Jun 27 j 02:44	10° \mathbb{Z} 26'45	18.97172 AU
min. Earth dist.	-2963 Jun 01 j 08:35	16° \mathbb{M} 05'37	18.71833 AU	opposition	-2957 Jun 28 j 05:30	10° \mathbb{Z} 24'05	0°-19'-5
opposition	-2963 Jun 02 j 09:03	16° \mathbb{M} 03'10	0°02'45	direct	-2957 Sep 12 j 03:44	8° \mathbb{Z} 27'35	
	-2963 Jun 30 j 02:42	15° \mathbb{R} \mathbb{M}					
direct	-2963 Aug 17 j 19:25	14° \mathbb{M} 05'36		conjunction	-2957 Dec 26 j 10:10	12° \mathbb{Z} 21'05	0°-18'-47
	-2963 Oct 03 j 10:09	15° \mathbb{M}		minimum elong	-2957 Dec 26 j 10:10	12° \mathbb{Z} 21'05	0°18'53
				max. Earth dist.	-2957 Dec 27 j 14:44	12° \mathbb{Z} 25'13	20.98591 AU
conjunction	-2963 Dec 02 j 00:13	18° \mathbb{M} 04'31	0°00'50	retrograde	-2956 Apr 14 j 07:15	16° \mathbb{Z} 23'00	
minimum elong	-2963 Dec 02 j 00:12	18° \mathbb{M} 04'31	0°00'45	min. Earth dist.	-2956 Jun 30 j 11:56	14° \mathbb{Z} 26'25	19.00005 AU
behind sun begin	-2963 Dec 01 j 17:41	18° \mathbb{M} 03'35		opposition	-2956 Jul 01 j 14:46	14° \mathbb{Z} 23'44	0°-22'-26
behind sun end	-2963 Dec 02 j 06:44	18° \mathbb{M} 05'27		direct	-2956 Sep 15 j 11:02	12° \mathbb{Z} 27'22	
max. Earth dist.	-2963 Dec 03 j 01:51	18° \mathbb{M} 08'17	20.74517 AU				
desc. node	-2962 Feb 27 j 11:17	21° \mathbb{M} 57'16		conjunction	-2956 Dec 29 j 15:00	16° \mathbb{Z} 20'15	0°-21'-45
retrograde	-2962 Mar 21 j 01:49	22° \mathbb{M} 08'48		minimum elong	-2956 Dec 29 j 15:00	16° \mathbb{Z} 20'15	0°21'52
opposition	-2962 Jun 06 j 22:11	20° \mathbb{M} 09'43	0°-1'00	max. Earth dist.	-2956 Dec 30 j 18:54	16° \mathbb{Z} 24'16	21.01259 AU
min. Earth dist.	-2962 Jun 05 j 21:41	20° \mathbb{M} 12'10	18.77137 AU	retrograde	-2955 Apr 18 j 16:30	20° \mathbb{Z} 21'59	
direct	-2962 Aug 22 j 06:40	18° \mathbb{M} 12'27		opposition	-2955 Jul 05 j 23:33	18° \mathbb{Z} 22'41	0°-25'-40
				min. Earth dist.	-2955 Jul 04 j 20:25	18° \mathbb{Z} 25'23	19.02509 AU
conjunction	-2962 Dec 06 j 06:42	22° \mathbb{M} 10'17	0°-2'-38	direct	-2955 Sep 19 j 16:58	16° \mathbb{Z} 26'24	
minimum elong	-2962 Dec 06 j 06:41	22° \mathbb{M} 10'17	0°02'43				
behind sun begin	-2962 Dec 06 j 00:10	22° \mathbb{M} 09'21		conjunction	-2954 Jan 02 j 19:54	20° \mathbb{Z} 18'50	0°-24'-37
behind sun end	-2962 Dec 06 j 13:13	22° \mathbb{M} 11'12		minimum elong	-2954 Jan 02 j 19:54	20° \mathbb{Z} 18'50	0°24'43
max. Earth dist.	-2962 Dec 07 j 07:57	22° \mathbb{M} 13'59	20.79611 AU	max. Earth dist.	-2954 Jan 04 j 01:00	20° \mathbb{Z} 23'00	21.03576 AU
retrograde	-2961 Mar 25 j 12:31	26° \mathbb{M} 14'04		retrograde	-2954 Apr 22 j 23:43	22° \mathbb{Z} 20'24	
min. Earth dist.	-2961 Jun 10 j 08:54	24° \mathbb{M} 17'34	18.82015 AU	min. Earth dist.	-2954 Jul 09 j 04:52	22° \mathbb{Z} 23'48	19.04642 AU
opposition	-2961 Jun 11 j 10:26	24° \mathbb{M} 15'01	0°-4'-45	opposition	-2954 Jul 10 j 07:51	22° \mathbb{Z} 21'06	0°-28'-46
direct	-2961 Aug 26 j 16:48	22° \mathbb{M} 17'58		direct	-2954 Sep 23 j 23:16	20° \mathbb{Z} 24'56	
conjunction	-2961 Dec 10 j 12:54	26° \mathbb{M} 14'48	0°-6'00	conjunction	-2953 Jan 07 j 00:45	24° \mathbb{Z} 16'59	0°-27'-22
minimum elong	-2961 Dec 10 j 12:54	26° \mathbb{M} 14'48	0°06'06	minimum elong	-2953 Jan 07 j 00:44	24° \mathbb{Z} 16'59	0°27'29
behind sun begin	-2961 Dec 10 j 06:40	26° \mathbb{M} 13'55		max. Earth dist.	-2953 Jan 08 j 04:47	24° \mathbb{Z} 21'00	21.05528 AU
behind sun end	-2961 Dec 10 j 19:08	26° \mathbb{M} 15'41		retrograde	-2953 Apr 27 j 08:26	28° \mathbb{Z} 18'30	
max. Earth dist.	-2961 Dec 11 j 15:34	26° \mathbb{M} 18'42	20.84252 AU	opposition	-2953 Jul 14 j 15:43	26° \mathbb{Z} 19'12	0°-31'-44
	-2960 Mar 01 j 16:01	0° \mathbb{Z}		min. Earth dist.	-2953 Jul 13 j 12:52	26° \mathbb{Z} 21'53	19.06405 AU
retrograde	-2960 Mar 28 j 21:23	0° \mathbb{Z} 18'08		direct	-2953 Sep 28 j 04:13	24° \mathbb{Z} 23'08	
	-2960 Apr 25 j 14:33	30° \mathbb{R} \mathbb{M}					
opposition	-2960 Jun 14 j 22:15	28° \mathbb{M} 19'04	0°-8'-27	conjunction	-2952 Jan 11 j 05:49	28° \mathbb{Z} 14'55	0°-29'-59
min. Earth dist.	-2960 Jun 13 j 20:46	28° \mathbb{M} 21'37	18.86428 AU	minimum elong	-2952 Jan 11 j 05:49	28° \mathbb{Z} 14'55	0°30'05
direct	-2960 Aug 30 j 02:59	26° \mathbb{M} 22'14		max. Earth dist.	-2952 Jan 12 j 10:45	28° \mathbb{Z} 19'03	21.07084 AU
	-2960 Dec 08 j 14:23	0° \mathbb{Z}			-2952 Feb 11 j 20:41	0° \mathbb{Z}	
				retrograde	-2952 Apr 30 j 16:15	2° \mathbb{Z} 16'25	
conjunction	-2960 Dec 13 j 18:30	0° \mathbb{Z} 18'05	0°-9'-18	opposition	-2952 Jul 17 j 23:22	0° \mathbb{Z} 17'09	0°-34'-32
minimum elong	-2960 Dec 13 j 18:30	0° \mathbb{Z} 18'05	0°09'24	min. Earth dist.	-2952 Jul 16 j 20:54	0° \mathbb{Z} 19'48	19.07749 AU
behind sun begin	-2960 Dec 13 j 13:00	0° \mathbb{Z} 17'18			-2952 Jul 25 j 03:12	30° \mathbb{R} \mathbb{Z}	
behind sun end	-2960 Dec 14 j 00:01	0° \mathbb{Z} 18'52		direct	-2952 Oct 01 j 09:53	28° \mathbb{Z} 21'11	
max. Earth dist.	-2960 Dec 14 j 20:44	0° \mathbb{Z} 21'54	20.88449 AU		-2952 Dec 04 j 09:48	0° \mathbb{Z}	
retrograde	-2959 Apr 02 j 07:23	4° \mathbb{Z} 21'00					
min. Earth dist.	-2959 Jun 18 j 07:07	2° \mathbb{Z} 24'30	18.90411 AU	conjunction	-2951 Jan 14 j 10:51	2° \mathbb{Z} 12'47	0°-32'-27
opposition	-2959 Jun 19 j 09:23	2° \mathbb{Z} 21'53	0°-12'-5	minimum elong	-2951 Jan 14 j 10:51	2° \mathbb{Z} 12'47	0°32'33
direct	-2959 Sep 03 j 11:49	0° \mathbb{Z} 25'11		max. Earth dist.	-2951 Jan 15 j 14:24	2° \mathbb{Z} 16'43	21.08218 AU
				retrograde	-2951 May 05 j 00:51	6° \mathbb{Z} 14'22	
conjunction	-2959 Dec 18 j 00:03	4° \mathbb{Z} 20'10	0°-12'-32	min. Earth dist.	-2951 Jul 21 j 04:59	4° \mathbb{Z} 17'41	19.08654 AU
minimum elong	-2959 Dec 18 j 00:03	4° \mathbb{Z} 20'10	0°12'38	opposition	-2951 Jul 22 j 06:49	4° \mathbb{Z} 15'06	0°-37'-11
behind sun begin	-2959 Dec 17 j 19:48	4° \mathbb{Z} 19'34		direct	-2951 Oct 05 j 14:28	2° \mathbb{Z} 19'11	
behind sun end	-2959 Dec 18 j 04:18	4° \mathbb{Z} 20'46					
max. Earth dist.	-2959 Dec 19 j 03:44	4° \mathbb{Z} 24'11	20.92211 AU	conjunction	-2950 Jan 18 j 16:28	6° \mathbb{Z} 10'43	0°-34'-46
retrograde	-2958 Apr 06 j 14:52	8° \mathbb{Z} 22'41		minimum elong	-2950 Jan 18 j 16:28	6° \mathbb{Z} 10'43	0°34'53
opposition	-2958 Jun 23 j 19:43	6° \mathbb{Z} 23'31	0°-15'-38	max. Earth dist.	-2950 Jan 19 j 20:24	6° \mathbb{Z} 14'42	21.08870 AU
min. Earth dist.	-2958 Jun 22 j 17:31	6° \mathbb{Z} 26'08	18.93975 AU	retrograde	-2950 May 09 j 08:54	10° \mathbb{Z} 12'24	
direct	-2958 Sep 07 j 20:26	4° \mathbb{Z} 26'56		opposition	-2950 Jul 26 j 13:49	8° \mathbb{Z} 13'09	0°-39'-39
				min. Earth dist.	-2950 Jul 25 j 12:48	8° \mathbb{Z} 15'40	19.09048 AU
conjunction	-2958 Dec 22 j 05:12	8° \mathbb{Z} 21'07	0°-15'-42	direct	-2950 Oct 09 j 19:32	6° \mathbb{Z} 17'16	
minimum elong	-2958 Dec 22 j 05:12	8° \mathbb{Z} 21'07	0°15'49				

Attention, astronomical year style is used: The year -2949 in astronomical counting style is the year 2950 BCE in historical counting style.

conjunction	-2949 Jan 22 j 22:13	10°☾08'49	0°-36'-55	conjunction	-2941 Feb 24 j 09:14	12°♁04'30	0°-47'-1
minimum elong	-2949 Jan 22 j 22:13	10°☾08'49	0°37'01	minimum elong	-2941 Feb 24 j 09:14	12°♁04'30	0°47'06
max. Earth dist.	-2949 Jan 24 j 00:10	10°☾12'31	21.09003 AU	max. Earth dist.	-2941 Feb 25 j 01:10	12°♁06'47	20.91470 AU
retrograde	-2949 May 13 j 17:40	14°☾10'41		retrograde	-2941 Apr 22 j 08:31	15°♁	
opposition	-2949 Jul 30 j 20:51	12°☾11'24	0°-41'-56	retrograde	-2941 Jun 15 j 17:25	16°♁09'01	
min. Earth dist.	-2949 Jul 29 j 20:57	12°☾13'48	19.08907 AU	retrograde	-2941 Aug 10 j 11:45	15°♁	
direct	-2949 Oct 14 j 00:07	10°☾15'29		min. Earth dist.	-2941 Aug 31 j 10:43	14°♁10'07	18.89579 AU
				opposition	-2941 Sep 01 j 00:34	14°♁08'41	0°-52'-11
conjunction	-2948 Jan 27 j 04:17	14°☾07'09	0°-38'-54	direct	-2941 Nov 14 j 14:58	12°♁11'18	
minimum elong	-2948 Jan 27 j 04:17	14°☾07'09	0°39'01		-2940 Feb 09 j 02:58	15°♁	
max. Earth dist.	-2948 Jan 28 j 06:15	14°☾10'51	21.08567 AU				
retrograde	-2948 May 17 j 01:48	18°☾09'12		conjunction	-2940 Feb 28 j 18:44	16°♁06'39	0°-47'-18
min. Earth dist.	-2948 Aug 02 j 04:45	16°☾12'10	19.08175 AU	minimum elong	-2940 Feb 28 j 18:44	16°♁06'39	0°47'22
opposition	-2948 Aug 03 j 03:43	16°☾09'51	0°-44'00	max. Earth dist.	-2940 Feb 29 j 10:23	16°♁08'53	20.87560 AU
direct	-2948 Oct 17 j 04:56	14°☾13'53		retrograde	-2940 Jun 19 j 03:57	20°♁11'43	
				opposition	-2940 Sep 04 j 07:13	18°♁11'17	0°-52'-22
conjunction	-2947 Jan 30 j 10:41	18°☾05'42	0°-40'-41	min. Earth dist.	-2940 Sep 03 j 18:14	18°♁12'38	18.85518 AU
minimum elong	-2947 Jan 30 j 10:41	18°☾05'42	0°40'47	direct	-2940 Nov 17 j 21:20	16°♁13'40	
max. Earth dist.	-2947 Jan 31 j 10:21	18°☾09'04	21.07556 AU				
retrograde	-2947 May 21 j 10:41	22°☾07'59		conjunction	-2939 Mar 04 j 04:57	20°♁09'54	0°-47'-21
opposition	-2947 Aug 07 j 10:24	20°☾08'32	0°-45'-52	minimum elong	-2939 Mar 04 j 04:57	20°♁09'54	0°47'25
min. Earth dist.	-2947 Aug 06 j 12:53	20°☾10'42	19.06880 AU	max. Earth dist.	-2939 Mar 04 j 17:50	20°♁11'44	20.83367 AU
direct	-2947 Oct 21 j 09:41	18°☾12'26		retrograde	-2939 Jun 23 j 14:48	24°♁15'35	
				opposition	-2939 Sep 08 j 14:04	22°♁15'03	0°-52'-18
conjunction	-2946 Feb 03 j 17:34	22°☾04'30	0°-42'-16	min. Earth dist.	-2939 Sep 08 j 03:10	22°♁16'11	18.81181 AU
minimum elong	-2946 Feb 03 j 17:34	22°☾04'30	0°42'23	direct	-2939 Nov 22 j 02:47	20°♁17'12	
max. Earth dist.	-2946 Feb 04 j 17:02	22°☾07'50	21.05979 AU				
retrograde	-2946 May 25 j 19:08	26°☾07'01		conjunction	-2938 Mar 08 j 16:08	24°♁14'24	0°-47'-10
opposition	-2946 Aug 11 j 16:53	24°☾07'27	0°-47'-31	minimum elong	-2938 Mar 08 j 16:08	24°♁14'24	0°47'14
min. Earth dist.	-2946 Aug 10 j 20:23	24°☾09'32	19.05026 AU	max. Earth dist.	-2938 Mar 09 j 04:22	24°♁16'10	20.78881 AU
direct	-2946 Oct 25 j 14:45	22°☾11'11		retrograde	-2938 Jun 28 j 02:03	28°♁20'44	
				opposition	-2938 Sep 12 j 21:14	26°♁20'09	0°-51'-58
conjunction	-2945 Feb 08 j 00:32	26°☾03'34	0°-43'-39	min. Earth dist.	-2938 Sep 12 j 11:26	26°♁21'10	18.76531 AU
minimum elong	-2945 Feb 08 j 00:32	26°☾03'34	0°43'45	direct	-2938 Nov 26 j 09:29	24°♁22'04	
max. Earth dist.	-2945 Feb 08 j 21:41	26°☾06'34	21.03882 AU				
	-2945 May 13 j 23:05	0°♁		conjunction	-2937 Mar 13 j 03:48	28°♁20'19	0°-46'-44
retrograde	-2945 May 30 j 03:49	0°♁06'23		minimum elong	-2937 Mar 13 j 03:48	28°♁20'19	0°46'48
	-2945 Jun 15 j 11:55	30°♁		max. Earth dist.	-2937 Mar 13 j 12:57	28°♁21'38	20.74077 AU
opposition	-2945 Aug 15 j 23:15	28°☾06'39	0°-48'-56	retrograde	-2937 Apr 11 j 20:22	0°♁	
min. Earth dist.	-2945 Aug 15 j 04:18	28°☾08'34	19.02695 AU	retrograde	-2937 Jul 02 j 13:59	2°♁27'22	
direct	-2945 Oct 29 j 19:02	26°☾10'11		opposition	-2937 Sep 17 j 04:50	0°♁26'41	0°-51'-23
	-2944 Feb 11 j 11:13	0°♁		min. Earth dist.	-2937 Sep 16 j 21:26	0°♁27'27	18.71563 AU
				direct	-2937 Sep 27 j 23:45	30°♁	
conjunction	-2944 Feb 12 j 08:03	0°♁02'58	0°-44'-49	direct	-2937 Nov 30 j 16:09	28°♁28'20	
minimum elong	-2944 Feb 12 j 08:03	0°♁02'58	0°44'55		-2936 Jan 30 j 21:24	0°♁	
max. Earth dist.	-2944 Feb 13 j 05:06	0°♁05'58	21.01330 AU				
retrograde	-2944 Jun 02 j 12:54	4°♁06'08		conjunction	-2936 Mar 16 j 16:36	2°♁27'44	0°-46'-4
min. Earth dist.	-2944 Aug 18 j 11:26	2°♁08'05	18.99934 AU	minimum elong	-2936 Mar 16 j 16:36	2°♁27'44	0°46'08
opposition	-2944 Aug 19 j 05:31	2°♁06'14	0°-50'-6	max. Earth dist.	-2936 Mar 17 j 00:46	2°♁28'55	20.68937 AU
direct	-2944 Nov 02 j 00:41	0°♁09'33		retrograde	-2936 Jul 06 j 02:13	6°♁35'30	
				opposition	-2936 Sep 20 j 12:43	4°♁34'44	0°-50'-31
conjunction	-2943 Feb 15 j 15:49	4°♁02'49	0°-45'-46	min. Earth dist.	-2936 Sep 20 j 06:38	4°♁35'22	18.66236 AU
minimum elong	-2943 Feb 15 j 15:49	4°♁02'49	0°45'53	direct	-2936 Dec 03 j 23:58	2°♁36'06	
max. Earth dist.	-2943 Feb 16 j 10:32	4°♁05'29	20.98386 AU				
retrograde	-2943 Jun 06 j 21:56	8°♁06'24		conjunction	-2935 Mar 21 j 06:08	6°♁36'42	0°-45'-9
opposition	-2943 Aug 23 j 11:52	6°♁06'20	0°-51'-3	minimum elong	-2935 Mar 21 j 06:08	6°♁36'42	0°45'11
min. Earth dist.	-2943 Aug 22 j 19:24	6°♁08'01	18.96811 AU	max. Earth dist.	-2935 Mar 21 j 10:46	6°♁37'22	20.63431 AU
direct	-2943 Nov 06 j 04:30	4°♁09'24		retrograde	-2935 Jul 10 j 14:53	10°♁45'13	
				opposition	-2935 Sep 24 j 21:14	8°♁44'20	0°-49'-22
conjunction	-2942 Feb 20 j 00:22	8°♁03'17	0°-46'-30	min. Earth dist.	-2935 Sep 24 j 17:54	8°♁44'41	18.60544 AU
minimum elong	-2942 Feb 20 j 00:22	8°♁03'17	0°46'35	direct	-2935 Dec 08 j 07:53	6°♁45'22	
max. Earth dist.	-2942 Feb 20 j 18:50	8°♁05'55	20.95085 AU				
retrograde	-2942 Jun 11 j 07:44	12°♁07'17		conjunction	-2934 Mar 25 j 20:42	10°♁47'13	0°-43'-59
opposition	-2942 Aug 27 j 18:02	10°♁07'06	0°-51'-44	minimum elong	-2934 Mar 25 j 20:42	10°♁47'13	0°44'02
min. Earth dist.	-2942 Aug 27 j 02:28	10°♁08'41	18.93341 AU	max. Earth dist.	-2934 Mar 26 j 00:00	10°♁47'42	20.57554 AU
direct	-2942 Nov 10 j 10:40	8°♁09'56		retrograde	-2934 Jul 15 j 04:19	14°♁56'29	
				opposition	-2934 Sep 29 j 05:57	12°♁55'28	0°-47'-57

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Attention, astronomical year style is used: The year -2934 in astronomical counting style is the year 2935 BCE in historical counting style.

min. Earth dist.	-2934 Sep 29 j 03:57	12° ♄ 55'41	18.54484 AU	min. Earth dist.	-2926 Nov 02 j 11:05	17° ♃ 22'08	18.01071 AU
direct	-2934 Dec 12 j 17:29	10° ♄ 56'08		direct	-2925 Jan 15 j 19:48	15° ♃ 20'49	
conjunction	-2933 Mar 30 j 11:50	14° ♄ 59'17	0°-42'-34	conjunction	-2925 May 05 j 18:32	19° ♃ 35'55	0°-23'-20
minimum elong	-2933 Mar 30 j 11:50	14° ♄ 59'17	0°42'36	minimum elong	-2925 May 05 j 18:32	19° ♃ 35'55	0°23'20
max. Earth dist.	-2933 Mar 30 j 11:37	14° ♄ 59'15	20.51342 AU	max. Earth dist.	-2925 May 05 j 02:30	19° ♃ 33'32	19.97852 AU
retrograde	-2933 Jul 19 j 17:10	19° ♄ 09'19		retrograde	-2925 Aug 24 j 00:45	23° ♃ 52'25	
opposition	-2933 Oct 03 j 15:20	17° ♄ 08'08	0°-46'-17	opposition	-2925 Nov 06 j 13:38	21° ♃ 50'17	0°-24'-7
min. Earth dist.	-2933 Oct 03 j 16:07	17° ♄ 08'03	18.48130 AU	min. Earth dist.	-2925 Nov 07 j 03:50	21° ♃ 48'45	17.94667 AU
direct	-2933 Dec 17 j 02:25	15° ♄ 08'24		direct	-2924 Jan 20 j 09:58	19° ♃ 47'22	
conjunction	-2932 Apr 03 j 03:49	19° ♄ 12'54	0°-40'-55	conjunction	-2924 May 09 j 17:09	24° ♃ 04'05	0°-20'-5
minimum elong	-2932 Apr 03 j 03:49	19° ♄ 12'54	0°40'57	minimum elong	-2924 May 09 j 17:10	24° ♃ 04'05	0°20'04
max. Earth dist.	-2932 Apr 03 j 02:26	19° ♄ 12'42	20.44867 AU	max. Earth dist.	-2924 May 08 j 23:31	24° ♃ 01'27	19.91527 AU
retrograde	-2932 Jul 23 j 07:52	23° ♄ 23'42		retrograde	-2924 Aug 27 j 21:28	28° ♃ 21'24	
opposition	-2932 Oct 07 j 01:02	21° ♄ 22'20	0°-44'-20	opposition	-2924 Nov 10 j 04:33	26° ♃ 19'14	0°-20'-25
min. Earth dist.	-2932 Oct 07 j 02:57	21° ♄ 22'08	18.41536 AU	min. Earth dist.	-2924 Nov 10 j 19:23	26° ♃ 17'38	17.88403 AU
direct	-2932 Dec 20 j 13:51	19° ♄ 22'12		direct	-2923 Jan 24 j 03:41	24° ♃ 16'00	
conjunction	-2931 Apr 07 j 20:36	23° ♄ 28'05	0°-39'-2	conjunction	-2923 May 14 j 16:47	28° ♃ 34'20	0°-16'-40
minimum elong	-2931 Apr 07 j 20:36	23° ♄ 28'05	0°39'04	minimum elong	-2923 May 14 j 16:47	28° ♃ 34'20	0°16'38
max. Earth dist.	-2931 Apr 07 j 15:54	23° ♄ 27'24	20.38187 AU	max. Earth dist.	-2923 May 13 j 21:11	28° ♃ 31'23	19.85316 AU
retrograde	-2931 Jul 27 j 21:04	27° ♄ 39'40		retrograde	-2923 Jun 07 j 18:42	0° ♄	
opposition	-2931 Oct 11 j 11:14	25° ♄ 38'08	0°-42'-8	retrograde	-2923 Sep 01 j 16:21	2° ♄ 52'25	
min. Earth dist.	-2931 Oct 11 j 15:56	25° ♄ 37'39	18.34790 AU	opposition	-2923 Nov 14 j 20:26	0° ♄ 50'15	0°-16'-33
direct	-2931 Dec 24 j 23:55	23° ♄ 37'33		min. Earth dist.	-2923 Nov 15 j 13:51	0° ♄ 48'21	17.82262 AU
conjunction	-2930 Apr 12 j 14:19	27° ♄ 44'54	0°-36'-56	direct	-2923 Dec 04 j 17:35	30° ♃	
minimum elong	-2930 Apr 12 j 14:19	27° ♄ 44'54	0°36'57	direct	-2922 Jan 28 j 19:32	28° ♃ 46'41	
max. Earth dist.	-2930 Apr 12 j 08:28	27° ♄ 44'02	20.31390 AU	direct	-2922 Mar 23 j 16:29	0° ♄	
retrograde	-2930 May 22 j 22:49	0° ♃		conjunction	-2922 May 19 j 17:07	3° ♄ 06'34	0°-13'-8
retrograde	-2930 Aug 01 j 12:59	1° ♃ 57'16		minimum elong	-2922 May 19 j 17:07	3° ♄ 06'34	0°13'06
retrograde	-2930 Oct 14 j 04:28	30° ♃		behind sun begin	-2922 May 19 j 13:14	3° ♄ 06'00	
opposition	-2930 Oct 15 j 21:57	29° ♄ 55'35	0°-39'-42	behind sun end	-2922 May 19 j 21:01	3° ♄ 07'09	
min. Earth dist.	-2930 Oct 16 j 03:30	29° ♄ 54'59	18.27956 AU	max. Earth dist.	-2922 May 18 j 19:26	3° ♄ 03'18	19.79238 AU
direct	-2930 Dec 29 j 13:10	27° ♄ 54'34		retrograde	-2922 Sep 06 j 14:14	7° ♄ 25'23	
direct	-2929 Mar 11 j 22:12	0° ♃		opposition	-2922 Nov 19 j 13:05	5° ♄ 23'11	0°-12'-33
conjunction	-2929 Apr 17 j 08:30	2° ♃ 03'23	0°-34'-37	min. Earth dist.	-2922 Nov 20 j 07:06	5° ♄ 21'13	17.76249 AU
minimum elong	-2929 Apr 17 j 08:30	2° ♃ 03'23	0°34'38	direct	-2921 Feb 02 j 15:25	3° ♄ 19'16	
max. Earth dist.	-2929 Apr 16 j 23:46	2° ♃ 02'06	20.24539 AU	conjunction	-2921 May 24 j 18:04	7° ♄ 40'40	0°-9'-29
retrograde	-2929 Aug 06 j 03:03	6° ♃ 16'36		minimum elong	-2921 May 24 j 18:04	7° ♄ 40'40	0°09'27
opposition	-2929 Oct 20 j 09:25	4° ♃ 14'45	0°-37'-1	behind sun begin	-2921 May 24 j 12:27	7° ♄ 39'50	
min. Earth dist.	-2929 Oct 20 j 17:31	4° ♃ 13'53	18.21115 AU	behind sun end	-2921 May 24 j 23:41	7° ♄ 41'30	
direct	-2928 Jan 03 j 00:28	2° ♃ 13'18		max. Earth dist.	-2921 May 23 j 18:59	7° ♄ 37'10	19.73278 AU
conjunction	-2928 Apr 21 j 03:46	6° ♃ 23'39	0°-32'-5	retrograde	-2921 Sep 11 j 09:59	12° ♄ 00'10	
minimum elong	-2928 Apr 21 j 03:47	6° ♃ 23'39	0°32'05	opposition	-2921 Nov 24 j 06:41	9° ♄ 57'55	0°-8'-27
max. Earth dist.	-2928 Apr 20 j 17:53	6° ♃ 22'12	20.17718 AU	min. Earth dist.	-2921 Nov 25 j 03:02	9° ♄ 55'42	17.70368 AU
retrograde	-2928 Aug 09 j 20:22	10° ♃ 37'40		direct	-2920 Feb 07 j 09:29	7° ♄ 53'40	
opposition	-2928 Oct 23 j 21:16	8° ♃ 35'42	0°-34'-6	conjunction	-2920 May 28 j 19:45	12° ♄ 16'30	0°-5'-46
min. Earth dist.	-2928 Oct 24 j 05:59	8° ♃ 34'46	18.14322 AU	minimum elong	-2920 May 28 j 19:45	12° ♄ 16'30	0°05'43
direct	-2927 Jan 06 j 15:06	6° ♃ 33'52		behind sun begin	-2920 May 28 j 13:15	12° ♄ 15'32	
conjunction	-2927 Apr 25 j 23:51	10° ♃ 45'46	0°-29'-21	behind sun end	-2920 May 29 j 02:15	12° ♄ 17'28	
minimum elong	-2927 Apr 25 j 23:52	10° ♃ 45'46	0°29'22	max. Earth dist.	-2920 May 27 j 18:22	12° ♄ 12'38	19.67487 AU
max. Earth dist.	-2927 Apr 25 j 11:19	10° ♃ 43'55	20.10966 AU	retrograde	-2920 Jul 15 j 19:15	15° ♄	
retrograde	-2927 Aug 14 j 12:12	15° ♃ 00'37		retrograde	-2920 Sep 15 j 08:10	16° ♄ 36'37	
opposition	-2927 Oct 28 j 10:04	12° ♃ 58'33	0°-30'-59	retrograde	-2920 Nov 18 j 03:13	15° ♃	
min. Earth dist.	-2927 Oct 28 j 21:17	12° ♃ 57'21	18.07631 AU	opposition	-2920 Nov 28 j 00:45	14° ♄ 34'18	0°-4'-15
direct	-2926 Jan 11 j 03:55	10° ♃ 56'20		min. Earth dist.	-2920 Nov 28 j 21:43	14° ♄ 32'01	17.64675 AU
conjunction	-2926 Apr 30 j 20:47	15° ♃ 09'50	0°-26'-26	direct	-2919 Feb 11 j 07:32	12° ♄ 29'41	
minimum elong	-2926 Apr 30 j 20:47	15° ♃ 09'50	0°26'26	direct	-2919 May 01 j 22:01	15° ♄	
max. Earth dist.	-2926 Apr 30 j 06:57	15° ♃ 07'47	20.04340 AU	conjunction	-2919 Jun 02 j 22:07	16° ♄ 53'55	0°-1'-58
retrograde	-2926 Aug 19 j 07:03	19° ♃ 25'30		minimum elong	-2919 Jun 02 j 22:08	16° ♄ 53'55	0°01'56
retrograde	-2926 Nov 01 j 23:23	17° ♃ 23'24	0°-27'-39	behind sun begin	-2919 Jun 02 j 15:21	16° ♄ 52'55	
opposition				behind sun end	-2919 Jun 03 j 04:56	16° ♄ 54'56	

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Attention, astronomical year style is used: The year -2919 in astronomical counting style is the year 2920 BCE in historical counting style.

max. Earth dist.	-2919 Jun 01 j 20:01	16°♄49'56	19.61894 AU	minimum elong	-2912 Jul 06 j 21:57	19°♂50'07	0°24'05
retrograde	-2919 Sep 20 j 04:38	21°♄14'35		max. Earth dist.	-2912 Jul 05 j 16:11	19°♂45'28	19.34105 AU
opposition	-2919 Dec 02 j 19:50	19°♄12'13	0°00'-1	retrograde	-2912 Oct 22 j 20:41	24°♂13'11	
min. Earth dist.	-2919 Dec 03 j 18:40	19°♄09'43	17.59213 AU	opposition	-2911 Jan 04 j 03:36	22°♂10'50	0°28'35
asc. node	-2919 Dec 05 j 01:52	19°♄06'19		min. Earth dist.	-2911 Jan 05 j 04:48	22°♂08'05	17.33193 AU
direct	-2918 Feb 16 j 03:51	17°♄07'15		direct	-2911 Mar 21 j 08:57	20°♂04'19	
max. Earth dist.	-2918 Jun 06 j 20:27	21°♄28'27	19.56580 AU	max. Earth dist.	-2911 Jul 10 j 21:25	24°♂31'53	19.32340 AU
conjunction	-2918 Jun 08 j 00:40	21°♄32'47	0°01'58	conjunction	-2911 Jul 12 j 01:57	24°♂36'21	0°27'18
minimum elong	-2918 Jun 08 j 00:39	21°♄32'47	0°02'03	minimum elong	-2911 Jul 12 j 01:57	24°♂36'21	0°27'23
behind sun begin	-2918 Jun 07 j 17:52	21°♄31'46		retrograde	-2911 Oct 27 j 22:26	28°♂59'32	
behind sun end	-2918 Jun 08 j 07:26	21°♄33'48		opposition	-2910 Jan 09 j 03:52	26°♂57'19	0°32'10
retrograde	-2918 Sep 25 j 03:15	25°♄53'58		min. Earth dist.	-2910 Jan 10 j 04:15	26°♂54'39	17.31703 AU
opposition	-2918 Dec 07 j 15:28	23°♄51'31	0°04'14	direct	-2910 Mar 26 j 11:53	24°♂50'48	
min. Earth dist.	-2918 Dec 08 j 14:43	23°♄48'58	17.54068 AU	max. Earth dist.	-2910 Jul 16 j 01:06	29°♂18'49	19.31123 AU
direct	-2917 Feb 21 j 03:47	21°♄46'12		conjunction	-2910 Jul 17 j 05:40	29°♂23'19	0°30'24
max. Earth dist.	-2917 Jun 11 j 23:43	26°♄08'38	19.51607 AU	minimum elong	-2910 Jul 17 j 05:40	29°♂23'18	0°30'30
conjunction	-2917 Jun 13 j 03:47	26°♄12'57	0°05'48	-2910 Jul 26 j 23:20	0°♄		
minimum elong	-2917 Jun 13 j 03:46	26°♄12'57	0°05'52	retrograde	-2910 Nov 01 j 22:22	3°♄46'33	
behind sun begin	-2917 Jun 12 j 21:18	26°♄11'59		opposition	-2909 Jan 14 j 04:43	1°♄44'28	0°35'32
behind sun end	-2917 Jun 13 j 10:14	26°♄13'55		min. Earth dist.	-2909 Jan 15 j 05:30	1°♄41'46	17.30765 AU
retrograde	-2917 Sep 30 j 00:26	0°♂34'34		-2909 Mar 02 j 07:59	30°♂		
opposition	-2917 Dec 12 j 11:48	28°♄32'04	0°08'30	direct	-2909 Mar 31 j 13:59	29°♂37'57	
min. Earth dist.	-2917 Dec 13 j 12:16	28°♄29'23	17.49296 AU	-2909 Apr 29 j 12:53	0°♄		
direct	-2916 Feb 26 j 02:09	26°♄26'26		max. Earth dist.	-2909 Jul 21 j 05:47	4°♄06'26	19.30442 AU
max. Earth dist.	-2916 Jun 16 j 01:10	0°♂49'42	19.47051 AU	conjunction	-2909 Jul 22 j 09:24	4°♄10'47	0°33'19
conjunction	-2916 Jun 17 j 07:02	0°♂54'19	0°09'35	minimum elong	-2909 Jul 22 j 09:24	4°♄10'47	0°33'24
minimum elong	-2916 Jun 17 j 07:01	0°♂54'19	0°09'40	retrograde	-2909 Nov 07 j 00:11	8°♄33'59	
behind sun begin	-2916 Jun 17 j 01:29	0°♂53'29		opposition	-2908 Jan 19 j 05:49	6°♄32'02	0°38'39
behind sun end	-2916 Jun 17 j 12:33	0°♂55'09		min. Earth dist.	-2908 Jan 20 j 05:23	6°♄29'28	17.30327 AU
retrograde	-2916 Oct 03 j 23:22	5°♂16'20		direct	-2908 Apr 04 j 17:53	4°♄25'34	
opposition	-2916 Dec 16 j 08:50	3°♂13'47	0°12'43	max. Earth dist.	-2908 Jul 25 j 09:56	8°♄54'17	19.30243 AU
min. Earth dist.	-2916 Dec 17 j 09:35	3°♂11'05	17.44978 AU	conjunction	-2908 Jul 26 j 13:00	8°♄58'33	0°36'00
direct	-2915 Mar 02 j 03:12	1°♂07'52		minimum elong	-2908 Jul 26 j 13:00	8°♄58'33	0°36'06
max. Earth dist.	-2915 Jun 21 j 05:36	5°♂32'17	19.42966 AU	retrograde	-2908 Nov 10 j 23:46	13°♄21'38	
conjunction	-2915 Jun 22 j 10:39	5°♂36'47	0°13'20	opposition	-2907 Jan 23 j 07:37	11°♄19'47	0°41'31
minimum elong	-2915 Jun 22 j 10:39	5°♂36'47	0°13'25	min. Earth dist.	-2907 Jan 24 j 07:34	11°♄17'11	17.30375 AU
behind sun begin	-2915 Jun 22 j 06:57	5°♂36'14		direct	-2907 Apr 09 j 21:01	9°♄13'22	
behind sun end	-2915 Jun 22 j 14:21	5°♂37'21		conjunction	-2907 Jul 31 j 16:04	13°♄46'21	0°38'26
retrograde	-2915 Oct 08 j 21:49	9°♂59'08		minimum elong	-2907 Jul 31 j 16:04	13°♄46'20	0°38'31
opposition	-2915 Dec 21 j 06:36	7°♂56'35	0°16'51	max. Earth dist.	-2907 Jul 30 j 13:42	13°♄42'11	19.30527 AU
min. Earth dist.	-2915 Dec 22 j 07:45	7°♂53'49	17.41155 AU	retrograde	-2907 Nov 16 j 01:00	18°♄09'13	
direct	-2914 Mar 07 j 03:47	5°♂50'26		opposition	-2906 Jan 28 j 09:37	16°♄07'28	0°44'05
max. Earth dist.	-2914 Jun 26 j 07:59	10°♂15'34	19.39421 AU	min. Earth dist.	-2906 Jan 29 j 07:48	16°♄05'03	17.30885 AU
conjunction	-2914 Jun 27 j 14:16	10°♂20'17	0°17'00	direct	-2906 Apr 15 j 02:39	14°♄01'07	
minimum elong	-2914 Jun 27 j 14:16	10°♂20'17	0°17'04	conjunction	-2906 Aug 05 j 18:50	18°♄33'54	0°40'35
retrograde	-2914 Oct 13 j 20:58	14°♂42'55		minimum elong	-2906 Aug 05 j 18:50	18°♄33'54	0°40'40
opposition	-2914 Dec 26 j 05:01	12°♂40'23	0°20'54	max. Earth dist.	-2906 Aug 04 j 17:58	18°♄29'58	19.31270 AU
min. Earth dist.	-2914 Dec 27 j 06:14	12°♂37'37	17.37912 AU	retrograde	-2906 Nov 20 j 23:38	22°♄56'29	
direct	-2913 Mar 12 j 05:19	10°♂34'03		opposition	-2905 Feb 02 j 11:55	20°♄54'48	0°46'20
conjunction	-2913 Jul 02 j 18:03	15°♂04'44	0°20'34	min. Earth dist.	-2905 Feb 03 j 10:13	20°♄52'23	17.31871 AU
minimum elong	-2913 Jul 02 j 18:03	15°♂04'44	0°20'39	direct	-2905 Apr 20 j 06:38	18°♄48'31	
max. Earth dist.	-2913 Jul 01 j 13:00	15°♂00'12	19.36468 AU	conjunction	-2905 Aug 10 j 20:54	23°♄20'58	0°42'27
retrograde	-2913 Oct 18 j 21:05	19°♂27'36		minimum elong	-2905 Aug 10 j 20:54	23°♄20'58	0°42'33
opposition	-2913 Dec 31 j 04:03	17°♂25'09	0°24'49	max. Earth dist.	-2905 Aug 09 j 20:37	23°♄17'07	19.32500 AU
min. Earth dist.	-2912 Jan 01 j 04:58	17°♂22'25	17.35249 AU	retrograde	-2905 Nov 26 j 00:02	27°♄43'11	
direct	-2912 Mar 16 j 07:19	15°♂18'42		opposition	-2904 Feb 07 j 14:10	25°♄41'33	0°48'15
conjunction	-2912 Jul 06 j 21:57	19°♂50'07	0°24'00	min. Earth dist.	-2904 Feb 08 j 10:24	25°♄39'22	17.33330 AU
				direct	-2904 Apr 24 j 12:47	23°♄35'21	
				conjunction	-2904 Aug 14 j 22:30	28°♄07'18	0°44'02

Attention, astronomical year style is used: The year -2904 in astronomical counting style is the year 2905 BCE in historical counting style.

minimum elong	-2904 Aug 14 j 22:30	28° 50 07'18	0°44'06
max. Earth dist.	-2904 Aug 14 j 00:30	28° 50 03'49	19.34200 AU
	-2904 Sep 14 j 12:41	0° Ω	
retrograde	-2904 Nov 29 j 22:11	2° Ω 29'03	
opposition	-2903 Feb 11 j 16:39	0° Ω 27'29	0°49'50
min. Earth dist.	-2903 Feb 12 j 12:33	0° Ω 25'21	17.35278 AU
	-2903 Feb 22 j 10:12	30° R Ω	
direct	-2903 Apr 29 j 17:00	28° 50 21'24	
	-2903 Jul 01 j 15:33	0° Ω	
conjunction	-2903 Aug 19 j 23:14	2° Ω 52'40	0°45'17
minimum elong	-2903 Aug 19 j 23:14	2° Ω 52'40	0°45'22
max. Earth dist.	-2903 Aug 19 j 01:59	2° Ω 49'19	19.36416 AU
retrograde	-2903 Dec 04 j 21:53	7° Ω 13'55	
opposition	-2902 Feb 16 j 19:00	5° Ω 12'23	0°51'03
min. Earth dist.	-2902 Feb 17 j 12:24	5° Ω 10'31	17.37756 AU
direct	-2902 May 04 j 22:16	3° Ω 06'25	
conjunction	-2902 Aug 24 j 23:11	7° Ω 36'54	0°46'14
minimum elong	-2902 Aug 24 j 23:10	7° Ω 36'54	0°46'18
max. Earth dist.	-2902 Aug 24 j 05:01	7° Ω 34'02	19.39162 AU
retrograde	-2902 Dec 09 j 19:40	11° Ω 57'35	
opposition	-2901 Feb 21 j 21:20	9° Ω 56'06	0°51'56
min. Earth dist.	-2901 Feb 22 j 13:44	9° Ω 54'21	17.40772 AU
direct	-2901 May 10 j 01:20	7° Ω 50'19	
conjunction	-2901 Aug 29 j 22:17	12° Ω 19'52	0°46'52
minimum elong	-2901 Aug 29 j 22:17	12° Ω 19'52	0°46'55
max. Earth dist.	-2901 Aug 29 j 05:07	12° Ω 17'10	19.42467 AU
	-2901 Oct 14 j 06:25	15° Ω	
retrograde	-2901 Dec 14 j 18:50	16° Ω 39'56	
	-2900 Feb 18 j 12:49	15° R Ω	
opposition	-2900 Feb 26 j 23:14	14° Ω 38'31	0°52'27
min. Earth dist.	-2900 Feb 27 j 13:02	14° Ω 37'03	17.44360 AU
direct	-2900 May 14 j 05:04	12° Ω 32'57	
	-2900 Jul 31 j 12:46	15° Ω	
conjunction	-2900 Sep 02 j 20:47	17° Ω 01'31	0°47'11
minimum elong	-2900 Sep 02 j 20:47	17° Ω 01'31	0°47'14
max. Earth dist.	-2900 Sep 02 j 06:59	16° Ω 59'20	19.46338 AU
retrograde	-2900 Dec 18 j 16:17	21° Ω 20'55	