

Planetary Phenomena of Neptune 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.

conjunction	-3400 Feb 27 j 17:33	11°46'34	-1°-51'-25	opposition	-3393 Sep 18 j 13:16	28°42'00	-2°-14'-58
minimum elong	-3400 Feb 27 j 17:33	11°46'34	1°51'32	min. Earth dist.	-3393 Sep 17 j 21:03	28°43'09	28.82548 AU
max. Earth dist.	-3400 Feb 28 j 16:42	11°48'44	30.83935 AU	direct	-3393 Dec 04 j 20:31	27°18'04	
retrograde	-3400 Jun 14 j 09:38	14°21'28					
min. Earth dist.	-3400 Sep 01 j 08:19	12°57'34	28.84066 AU	conjunction	-3392 Mar 17 j 09:18	29°47'46	-2°-6'-49
opposition	-3400 Sep 02 j 05:41	12°56'04	-2°00'-34	minimum elong	-3392 Mar 17 j 09:18	29°47'46	2°06'53
direct	-3400 Nov 18 j 10:38	11°32'31		max. Earth dist.	-3392 Mar 18 j 04:03	29°49'31	30.82311 AU
					-3392 Mar 22 j 19:58	0°	
conjunction	-3399 Mar 01 j 07:15	14°01'33	-1°-53'-59	retrograde	-3392 Jul 02 j 17:36	2°22'15	
minimum elong	-3399 Mar 01 j 07:14	14°01'33	1°54'05	min. Earth dist.	-3392 Sep 19 j 08:12	0°58'07	28.82428 AU
max. Earth dist.	-3399 Mar 02 j 06:45	14°03'45	30.83902 AU	opposition	-3392 Sep 20 j 00:21	0°56'58	-2°-16'-13
	-3399 Mar 27 j 21:00	15°			-3392 Oct 26 j 17:39	30°R	
retrograde	-3399 Jun 16 j 22:29	16°36'27		direct	-3392 Dec 06 j 08:29	29°32'57	
opposition	-3399 Sep 04 j 17:15	15°11'06	-2°-3'-12		-3391 Jan 15 j 07:44	0°	
min. Earth dist.	-3399 Sep 03 j 20:50	15°12'32	28.84016 AU				
	-3399 Sep 11 j 06:54	15°R		conjunction	-3391 Mar 19 j 23:12	2°02'45	-2°-7'-53
direct	-3399 Nov 20 j 22:23	13°47'32		minimum elong	-3391 Mar 19 j 23:12	2°02'45	2°07'58
	-3398 Jan 27 j 05:30	15°		max. Earth dist.	-3391 Mar 20 j 16:20	2°04'21	30.82257 AU
				retrograde	-3391 Jul 05 j 07:09	4°37'10	
conjunction	-3398 Mar 03 j 21:04	16°16'42	-1°-56'-21	opposition	-3391 Sep 22 j 11:26	3°11'54	-2°-17'-16
minimum elong	-3398 Mar 03 j 21:04	16°16'42	1°56'28	min. Earth dist.	-3391 Sep 21 j 19:41	3°13'02	28.82451 AU
max. Earth dist.	-3398 Mar 04 j 19:07	16°18'46	30.83826 AU	direct	-3391 Dec 08 j 18:34	1°47'50	
retrograde	-3398 Jun 19 j 14:13	18°51'35					
min. Earth dist.	-3398 Sep 06 j 08:29	17°27'42	28.83902 AU	conjunction	-3390 Mar 22 j 13:27	4°17'45	-2°-8'-46
opposition	-3398 Sep 07 j 04:44	17°26'16	-2°-5'-39	minimum elong	-3390 Mar 22 j 13:27	4°17'45	2°08'50
direct	-3398 Nov 23 j 11:00	16°02'40		max. Earth dist.	-3390 Mar 23 j 07:05	4°19'23	30.82342 AU
				retrograde	-3390 Jul 07 j 18:50	6°52'05	
conjunction	-3397 Mar 06 j 11:04	18°31'57	-1°-58'-34	opposition	-3390 Sep 24 j 22:25	5°26'52	-2°-18'-6
minimum elong	-3397 Mar 06 j 11:04	18°31'57	1°58'40	min. Earth dist.	-3390 Sep 24 j 07:27	5°27'56	28.82600 AU
max. Earth dist.	-3397 Mar 07 j 08:39	18°33'59	30.83651 AU	direct	-3390 Dec 11 j 06:16	4°02'47	
retrograde	-3397 Jun 22 j 02:56	21°06'49					
opposition	-3397 Sep 09 j 16:21	19°41'31	-2°-7'-54	conjunction	-3389 Mar 25 j 03:41	6°32'47	-2°-9'-27
min. Earth dist.	-3397 Sep 08 j 21:46	19°42'49	28.83682 AU	minimum elong	-3389 Mar 25 j 03:40	6°32'47	2°09'32
direct	-3397 Nov 25 j 22:59	18°17'52		max. Earth dist.	-3389 Mar 25 j 19:53	6°34'18	30.82563 AU
				retrograde	-3389 Jul 10 j 09:33	9°07'03	
conjunction	-3396 Mar 08 j 01:08	20°47'14	-2°00'-35	opposition	-3389 Sep 27 j 09:23	7°41'54	-2°-18'-43
minimum elong	-3396 Mar 08 j 01:08	20°47'14	2°00'40	min. Earth dist.	-3389 Sep 26 j 18:26	7°42'58	28.82870 AU
max. Earth dist.	-3396 Mar 08 j 21:48	20°49'10	30.83393 AU	direct	-3389 Dec 13 j 19:05	6°17'47	
retrograde	-3396 Jun 23 j 16:55	23°22'02					
min. Earth dist.	-3396 Sep 10 j 08:48	21°58'04	28.83388 AU	conjunction	-3388 Mar 26 j 18:03	8°47'56	-2°-9'-56
opposition	-3396 Sep 11 j 03:35	21°56'44	-2°-9'-58	minimum elong	-3388 Mar 26 j 18:04	8°47'56	2°10'00
direct	-3396 Nov 27 j 11:37	20°33'01		max. Earth dist.	-3388 Mar 27 j 10:07	8°49'26	30.82862 AU
				retrograde	-3388 Jul 11 j 21:31	11°22'07	
conjunction	-3395 Mar 10 j 15:05	23°02'28	-2°-2'-25	opposition	-3388 Sep 28 j 20:21	9°57'03	-2°-19'-8
minimum elong	-3395 Mar 10 j 15:05	23°02'28	2°02'31	min. Earth dist.	-3388 Sep 28 j 07:02	9°57'59	28.83198 AU
max. Earth dist.	-3395 Mar 11 j 10:37	23°04'18	30.83071 AU	direct	-3388 Dec 15 j 06:46	8°32'54	
retrograde	-3395 Jun 26 j 05:38	25°37'12					
opposition	-3395 Sep 13 j 15:00	24°11'54	-2°-11'-50	conjunction	-3387 Mar 29 j 08:30	11°03'10	-2°-10'-13
min. Earth dist.	-3395 Sep 12 j 21:48	24°13'07	28.83066 AU	minimum elong	-3387 Mar 29 j 08:30	11°03'10	2°10'17
direct	-3395 Nov 29 j 22:17	22°48'07		max. Earth dist.	-3387 Mar 29 j 23:31	11°04'34	30.83214 AU
				retrograde	-3387 Jul 14 j 12:21	13°37'17	
conjunction	-3394 Mar 13 j 05:03	25°17'39	-2°-4'-4	opposition	-3387 Oct 01 j 07:14	12°12'17	-2°-19'-19
minimum elong	-3394 Mar 13 j 05:03	25°17'39	2°04'09	min. Earth dist.	-3387 Sep 30 j 17:49	12°13'14	28.83544 AU
max. Earth dist.	-3394 Mar 14 j 00:43	25°19'29	30.82758 AU	direct	-3387 Dec 17 j 19:30	10°48'07	
retrograde	-3394 Jun 28 j 18:46	27°52'18					
min. Earth dist.	-3394 Sep 15 j 08:40	26°28'14	28.82767 AU	conjunction	-3386 Mar 31 j 22:56	13°18'30	-2°-10'-18
opposition	-3394 Sep 16 j 02:10	26°27'00	-2°-13'-30	minimum elong	-3386 Mar 31 j 22:56	13°18'30	2°10'21
direct	-3394 Dec 02 j 10:07	25°03'08		max. Earth dist.	-3386 Apr 01 j 12:40	13°19'47	30.83532 AU
				retrograde	-3386 Jul 17 j 01:45	15°52'32	
conjunction	-3393 Mar 15 j 19:04	27°32'44	-2°-5'-32	opposition	-3386 Oct 03 j 18:19	14°27'34	-2°-19'-18
minimum elong	-3393 Mar 15 j 19:04	27°32'44	2°05'37	min. Earth dist.	-3386 Oct 03 j 06:51	14°28'23	28.83834 AU
max. Earth dist.	-3393 Mar 16 j 13:15	27°34'26	30.82487 AU	direct	-3386 Dec 20 j 07:01	13°03'22	
	-3393 Jun 10 j 05:15	0°					
retrograde	-3393 Jul 01 j 06:12	0°07'19		conjunction	-3385 Apr 03 j 13:42	15°33'51	-2°-10'-11
	-3393 Jul 22 j 09:59	30°R		minimum elong	-3385 Apr 03 j 13:42	15°33'51	2°10'14

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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.

max. Earth dist.	-3385 Apr 04 j 02:44	15° Υ 35'05	30.83784 AU	max. Earth dist.	-3377 Apr 22 j 15:06	3° Υ 33'13	30.85419 AU
retrograde	-3385 Jul 19 j 15:00	18° Υ 07'46		retrograde	-3377 Aug 06 j 16:01	6° Υ 05'29	
opposition	-3385 Oct 06 j 05:07	16° Υ 42'51	-2°-19'-4	opposition	-3377 Oct 23 j 18:17	4° Υ 40'52	-2°-9'-45
min. Earth dist.	-3385 Oct 05 j 17:53	16° Υ 43'39	28.84029 AU	min. Earth dist.	-3377 Oct 23 j 14:03	4° Υ 41'10	28.85878 AU
direct	-3385 Dec 22 j 20:01	15° Υ 18'36		direct	-3376 Jan 09 j 18:54	3° Υ 16'07	
conjunction	-3384 Apr 05 j 04:21	17° Υ 49'10	-2°-9'-52	conjunction	-3376 Apr 24 j 00:20	5° Υ 47'19	-2°00'-24
minimum elong	-3384 Apr 05 j 04:21	17° Υ 49'10	2°09'54	minimum elong	-3376 Apr 24 j 00:21	5° Υ 47'19	2°00'24
max. Earth dist.	-3384 Apr 05 j 15:19	17° Υ 50'11	30.83934 AU	max. Earth dist.	-3376 Apr 24 j 05:15	5° Υ 47'47	30.86096 AU
retrograde	-3384 Jul 21 j 02:55	20° Υ 22'57		retrograde	-3376 Aug 08 j 05:00	8° Υ 19'58	
opposition	-3384 Oct 07 j 16:08	18° Υ 58'04	-2°-18'-38	opposition	-3376 Oct 25 j 04:43	6° Υ 55'28	-2°-7'-41
min. Earth dist.	-3384 Oct 07 j 06:35	18° Υ 58'45	28.84142 AU	min. Earth dist.	-3376 Oct 25 j 00:21	6° Υ 55'46	28.86593 AU
direct	-3384 Dec 24 j 06:52	17° Υ 33'44		direct	-3375 Jan 11 j 08:03	5° Υ 30'43	
conjunction	-3383 Apr 07 j 18:55	20° Υ 04'22	-2°-9'-22	conjunction	-3375 Apr 26 j 14:38	8° Υ 02'02	-1°-58'-22
minimum elong	-3383 Apr 07 j 18:55	20° Υ 04'22	2°09'25	minimum elong	-3375 Apr 26 j 14:39	8° Υ 02'02	1°58'23
max. Earth dist.	-3383 Apr 08 j 05:54	20° Υ 05'23	30.84014 AU	max. Earth dist.	-3375 Apr 26 j 17:58	8° Υ 02'20	30.86853 AU
retrograde	-3383 Jul 23 j 14:29	22° Υ 38'00		retrograde	-3375 Aug 10 j 17:16	10° Υ 34'34	
opposition	-3383 Oct 10 j 02:57	21° Υ 13'08	-2°-17'-59	opposition	-3375 Oct 27 j 15:17	9° Υ 10'10	-2°-5'-24
min. Earth dist.	-3383 Oct 09 j 17:59	21° Υ 13'46	28.84189 AU	min. Earth dist.	-3375 Oct 27 j 12:29	9° Υ 10'22	28.87374 AU
direct	-3383 Dec 26 j 19:18	19° Υ 48'43		direct	-3374 Jan 13 j 18:40	7° Υ 45'25	
conjunction	-3382 Apr 10 j 09:26	22° Υ 19'25	-2°-8'-39	conjunction	-3374 Apr 29 j 05:19	10° Υ 16'51	-1°-56'-9
minimum elong	-3382 Apr 10 j 09:26	22° Υ 19'25	2°08'41	minimum elong	-3374 Apr 29 j 05:20	10° Υ 16'51	1°56'08
max. Earth dist.	-3382 Apr 10 j 18:14	22° Υ 20'14	30.84061 AU	max. Earth dist.	-3374 Apr 29 j 08:34	10° Υ 17'09	30.87641 AU
retrograde	-3382 Jul 26 j 03:05	24° Υ 52'53		retrograde	-3374 Aug 13 j 05:40	12° Υ 49'15	
opposition	-3382 Oct 12 j 13:36	23° Υ 28'02	-2°-17'-7	opposition	-3374 Oct 30 j 01:40	11° Υ 24'58	-2°-2'-56
min. Earth dist.	-3382 Oct 12 j 05:33	23° Υ 28'37	28.84243 AU	min. Earth dist.	-3374 Oct 29 j 23:39	11° Υ 25'07	28.88138 AU
direct	-3382 Dec 29 j 05:45	22° Υ 03'32		direct	-3373 Jan 16 j 06:54	10° Υ 00'13	
conjunction	-3381 Apr 13 j 00:07	24° Υ 34'17	-2°-7'-46	conjunction	-3373 May 01 j 19:57	12° Υ 31'45	-1°-53'-45
minimum elong	-3381 Apr 13 j 00:07	24° Υ 34'17	2°07'48	minimum elong	-3373 May 01 j 19:57	12° Υ 31'45	1°53'46
max. Earth dist.	-3381 Apr 13 j 09:01	24° Υ 35'07	30.84125 AU	max. Earth dist.	-3373 May 01 j 20:45	12° Υ 31'49	30.88384 AU
retrograde	-3381 Jul 28 j 13:28	27° Υ 07'36		retrograde	-3373 Aug 15 j 17:57	15° Υ 04'01	
opposition	-3381 Oct 15 j 00:15	25° Υ 42'47	-2°-16'-3	opposition	-3373 Nov 01 j 12:14	13° Υ 39'49	-2°00'-17
min. Earth dist.	-3381 Oct 14 j 17:18	25° Υ 43'17	28.84326 AU	min. Earth dist.	-3373 Nov 01 j 11:18	13° Υ 39'53	28.88846 AU
direct	-3381 Dec 31 j 18:01	24° Υ 18'12		direct	-3372 Jan 18 j 17:17	12° Υ 15'01	
conjunction	-3380 Apr 14 j 14:31	26° Υ 49'01	-2°-6'-40	conjunction	-3372 May 03 j 10:36	14° Υ 46'38	-1°-51'-12
minimum elong	-3380 Apr 14 j 14:31	26° Υ 49'01	2°06'41	minimum elong	-3372 May 03 j 10:37	14° Υ 46'38	1°51'10
max. Earth dist.	-3380 Apr 14 j 21:40	26° Υ 49'41	30.84256 AU	max. Earth dist.	-3372 May 03 j 11:11	14° Υ 46'41	30.89044 AU
retrograde	-3380 Jul 30 j 02:30	29° Υ 22'11		retrograde	-3372 Aug 17 j 03:39	17° Υ 18'45	
opposition	-3380 Oct 16 j 10:46	27° Υ 57'23	-2°-14'-47	opposition	-3372 Nov 02 j 22:47	15° Υ 54'37	-1°-57'-27
min. Earth dist.	-3380 Oct 16 j 03:51	27° Υ 57'52	28.84508 AU	min. Earth dist.	-3372 Nov 02 j 23:15	15° Υ 54'35	28.89453 AU
direct	-3379 Jan 02 j 06:34	26° Υ 32'43		direct	-3371 Jan 20 j 05:42	14° Υ 29'47	
conjunction	-3379 Apr 17 j 04:58	29° Υ 03'38	-2°-5'-23	conjunction	-3371 May 06 j 01:05	17° Υ 01'27	-1°-48'-28
minimum elong	-3379 Apr 17 j 04:59	29° Υ 03'38	2°05'25	minimum elong	-3371 May 06 j 01:06	17° Υ 01'27	1°48'28
max. Earth dist.	-3379 Apr 17 j 12:08	29° Υ 04'18	30.84494 AU	max. Earth dist.	-3371 May 05 j 23:21	17° Υ 01'17	30.89626 AU
retrograde	-3379 May 12 j 23:36	0° Υ		retrograde	-3371 Aug 19 j 15:54	19° Υ 33'23	
opposition	-3379 Aug 01 j 13:28	1° Υ 36'39		opposition	-3371 Nov 05 j 09:09	18° Υ 09'18	-1°-54'-27
opposition	-3379 Oct 18 j 21:20	0° Υ 11'54	-2°-13'-19	min. Earth dist.	-3371 Nov 05 j 10:03	18° Υ 09'14	28.89997 AU
min. Earth dist.	-3379 Oct 18 j 15:54	0° Υ 12'17	28.84817 AU	direct	-3370 Jan 22 j 17:41	16° Υ 44'24	
direct	-3379 Oct 25 j 20:30	30° Υ		conjunction	-3370 May 08 j 15:38	19° Υ 16'06	-1°-45'-35
	-3378 Jan 04 j 18:05	28° Υ 47'11		minimum elong	-3370 May 08 j 15:38	19° Υ 16'06	1°45'33
	-3378 Mar 14 j 03:01	0° Υ		max. Earth dist.	-3370 May 08 j 13:30	19° Υ 15'54	30.90141 AU
conjunction	-3378 Apr 19 j 19:19	1° Υ 18'10	-2°-3'-55	retrograde	-3370 Aug 22 j 02:09	21° Υ 47'51	
minimum elong	-3378 Apr 19 j 19:19	1° Υ 18'10	2°03'55	opposition	-3370 Nov 07 j 19:39	20° Υ 23'48	-1°-51'-16
max. Earth dist.	-3378 Apr 20 j 01:27	1° Υ 18'45	30.84889 AU	min. Earth dist.	-3370 Nov 07 j 22:28	20° Υ 23'36	28.90485 AU
retrograde	-3378 Aug 04 j 03:21	3° Υ 51'04		direct	-3369 Jan 25 j 04:52	18° Υ 58'49	
opposition	-3378 Oct 21 j 07:47	2° Υ 26'22	-2°-11'-38				
min. Earth dist.	-3378 Oct 21 j 01:58	2° Υ 26'47	28.85276 AU	conjunction	-3369 May 11 j 06:03	21° Υ 30'33	-1°-42'-32
direct	-3377 Jan 07 j 07:09	1° Υ 01'37		minimum elong	-3369 May 11 j 06:04	21° Υ 30'33	1°42'31
				max. Earth dist.	-3369 May 11 j 02:23	21° Υ 30'13	30.90635 AU
conjunction	-3377 Apr 22 j 09:49	3° Υ 32'43	-2°-2'-15	retrograde	-3369 Aug 24 j 14:26	24° Υ 02'06	
minimum elong	-3377 Apr 22 j 09:49	3° Υ 32'43	2°02'16	opposition	-3369 Nov 10 j 05:50	22° Υ 38'05	-1°-47'-56

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Attention, astronomical year style is used: The year -3369 in astronomical counting style is the year 3370 BCE in historical counting style.

min. Earth dist.	-3369 Nov 10 j 08:37	22° Υ 37'53	28.90973 AU	min. Earth dist.	-3361 Nov 28 j 02:02	10° C 27'33	28.98089 AU
direct	-3368 Jan 27 j 18:49	21° Υ 13'02		direct	-3360 Feb 14 j 18:11	9° C 03'04	
conjunction	-3368 May 12 j 20:23	23° Υ 44'48	-1°-39'-20	conjunction	-3360 May 31 j 12:37	11° C 35'16	-1°-8'-53
minimum elong	-3368 May 12 j 20:23	23° Υ 44'48	1°39'18	minimum elong	-3360 May 31 j 12:37	11° C 35'16	1°08'49
max. Earth dist.	-3368 May 12 j 15:52	23° Υ 44'23	30.91141 AU	max. Earth dist.	-3360 May 31 j 01:01	11° C 34'11	30.98537 AU
retrograde	-3368 Aug 26 j 01:36	26° Υ 16'09		retrograde	-3360 Sep 12 j 20:55	14° C 05'21	
opposition	-3368 Nov 11 j 16:16	24° Υ 52'09	-1°-44'-27	opposition	-3360 Nov 29 j 02:41	12° C 42'05	-1°-11'-21
min. Earth dist.	-3368 Nov 11 j 20:43	24° Υ 51'50	28.91513 AU	min. Earth dist.	-3360 Nov 29 j 12:27	12° C 41'24	28.99052 AU
direct	-3367 Jan 29 j 07:14	23° Υ 27'02		direct	-3359 Feb 16 j 07:46	11° C 16'54	
conjunction	-3367 May 15 j 10:26	25° Υ 58'49	-1°-36'00	conjunction	-3359 Jun 03 j 02:28	13° C 49'09	-1°-4'-33
minimum elong	-3367 May 15 j 10:27	25° Υ 58'49	1°35'58	minimum elong	-3359 Jun 03 j 02:28	13° C 49'09	1°04'29
max. Earth dist.	-3367 May 15 j 05:25	25° Υ 58'21	30.91731 AU	max. Earth dist.	-3359 Jun 02 j 13:55	13° C 47'59	30.99441 AU
retrograde	-3367 Aug 28 j 13:36	28° Υ 29'58		retrograde	-3359 Jul 06 j 02:13	15° C	
opposition	-3367 Nov 14 j 02:30	27° Υ 06'01	-1°-40'-48	retrograde	-3359 Sep 15 j 07:39	16° C 19'05	
min. Earth dist.	-3367 Nov 14 j 06:45	27° Υ 05'43	28.92140 AU	retrograde	-3359 Nov 29 j 02:53	15° R C	
direct	-3366 Jan 31 j 21:12	25° Υ 40'50		opposition	-3359 Dec 01 j 13:13	14° C 55'53	-1°-6'-40
conjunction	-3366 May 18 j 00:32	28° Υ 12'39	-1°-32'-31	min. Earth dist.	-3359 Dec 02 j 00:56	14° C 55'04	28.99902 AU
minimum elong	-3366 May 18 j 00:32	28° Υ 12'39	1°32'28	direct	-3358 Feb 18 j 19:55	13° C 30'41	
max. Earth dist.	-3366 May 17 j 18:07	28° Υ 12'04	30.92420 AU	direct	-3358 May 07 j 13:51	15° C	
retrograde	-3366 Jul 10 j 06:48	0° C		conjunction	-3358 Jun 05 j 16:22	16° C 02'58	-1°00'-8
retrograde	-3366 Aug 31 j 01:31	0° C 43'37		minimum elong	-3358 Jun 05 j 16:23	16° C 02'58	1°00'03
retrograde	-3366 Oct 22 j 21:17	30° R Υ		max. Earth dist.	-3358 Jun 05 j 02:46	16° C 01'42	31.00247 AU
opposition	-3366 Nov 16 j 12:44	29° Υ 19'43	-1°-37'00	retrograde	-3358 Sep 17 j 19:19	18° C 32'43	
min. Earth dist.	-3366 Nov 16 j 18:15	29° Υ 19'20	28.92900 AU	opposition	-3358 Dec 03 j 23:29	17° C 09'35	-1°-1'-54
direct	-3365 Feb 03 j 08:24	27° Υ 54'31		min. Earth dist.	-3358 Dec 04 j 11:24	17° C 08'44	29.00645 AU
direct	-3365 May 08 j 17:23	0° C		direct	-3357 Feb 21 j 09:54	15° C 44'20	
conjunction	-3365 May 20 j 14:44	0° C 26'23	-1°-28'-54	conjunction	-3357 Jun 08 j 06:08	18° C 16'38	0°-55'-37
minimum elong	-3365 May 20 j 14:44	0° C 26'23	1°28'52	minimum elong	-3357 Jun 08 j 06:09	18° C 16'38	0°55'33
max. Earth dist.	-3365 May 20 j 08:32	0° C 25'48	30.93254 AU	max. Earth dist.	-3357 Jun 07 j 14:55	18° C 15'13	31.00953 AU
retrograde	-3365 Sep 02 j 13:22	2° C 57'10		retrograde	-3357 Sep 20 j 07:10	20° C 46'13	
opposition	-3365 Nov 18 j 23:03	1° C 33'21	-1°-33'-4	opposition	-3357 Dec 06 j 09:57	19° C 23'07	0°-57'-2
min. Earth dist.	-3365 Nov 19 j 04:52	1° C 32'56	28.93789 AU	min. Earth dist.	-3357 Dec 06 j 23:21	19° C 22'10	29.01329 AU
direct	-3364 Feb 05 j 21:42	0° C 08'08		direct	-3356 Feb 23 j 21:48	17° C 57'50	
conjunction	-3364 May 22 j 04:33	2° C 40'02	-1°-25'-9	conjunction	-3356 Jun 09 j 19:39	20° C 30'07	0°-51'-2
minimum elong	-3364 May 22 j 04:33	2° C 40'02	1°25'06	minimum elong	-3356 Jun 09 j 19:39	20° C 30'08	0°50'57
max. Earth dist.	-3364 May 21 j 20:38	2° C 39'18	30.94220 AU	max. Earth dist.	-3356 Jun 09 j 04:29	20° C 28'43	31.01622 AU
retrograde	-3364 Sep 04 j 00:56	5° C 10'41		retrograde	-3356 Sep 21 j 18:40	22° C 59'31	
opposition	-3364 Nov 20 j 09:18	3° C 46'58	-1°-28'-58	opposition	-3356 Dec 07 j 20:18	21° C 36'27	0°-52'-6
min. Earth dist.	-3364 Nov 20 j 15:39	3° C 46'31	28.94816 AU	min. Earth dist.	-3356 Dec 08 j 10:12	21° C 35'29	29.01980 AU
direct	-3363 Feb 07 j 08:31	2° C 21'45		direct	-3355 Feb 25 j 12:19	20° C 11'08	
conjunction	-3363 May 24 j 18:36	4° C 53'44	-1°-21'-15	conjunction	-3355 Jun 12 j 09:00	22° C 43'25	0°-46'-23
minimum elong	-3363 May 24 j 18:37	4° C 53'44	1°21'13	minimum elong	-3355 Jun 12 j 09:00	22° C 43'25	0°46'19
max. Earth dist.	-3363 May 24 j 11:01	4° C 53'02	30.95297 AU	max. Earth dist.	-3355 Jun 11 j 16:06	22° C 41'51	31.02288 AU
retrograde	-3363 Sep 06 j 10:45	7° C 24'14		retrograde	-3355 Sep 24 j 05:27	25° C 12'37	
opposition	-3363 Nov 22 j 19:33	6° C 00'38	-1°-24'-45	opposition	-3355 Dec 10 j 06:30	23° C 49'36	0°-47'-5
min. Earth dist.	-3363 Nov 23 j 03:05	6° C 00'06	28.95916 AU	min. Earth dist.	-3355 Dec 10 j 20:56	23° C 48'35	29.02673 AU
direct	-3362 Feb 09 j 20:27	4° C 35'27		direct	-3354 Feb 28 j 00:03	22° C 24'13	
conjunction	-3362 May 27 j 08:33	7° C 07'30	-1°-17'-15	conjunction	-3354 Jun 14 j 22:25	24° C 56'30	0°-41'-40
minimum elong	-3362 May 27 j 08:33	7° C 07'30	1°17'11	minimum elong	-3354 Jun 14 j 22:25	24° C 56'30	0°41'35
max. Earth dist.	-3362 May 26 j 22:54	7° C 06'37	30.96425 AU	max. Earth dist.	-3354 Jun 14 j 05:59	24° C 54'59	31.03008 AU
retrograde	-3362 Sep 08 j 23:03	9° C 37'52		retrograde	-3354 Sep 26 j 14:47	27° C 25'31	
opposition	-3362 Nov 25 j 05:50	8° C 14'24	-1°-20'-24	opposition	-3354 Dec 12 j 16:54	26° C 02'33	0°-42'-1
min. Earth dist.	-3362 Nov 25 j 13:37	8° C 13'51	28.97035 AU	min. Earth dist.	-3354 Dec 13 j 08:14	26° C 01'28	29.03427 AU
direct	-3361 Feb 12 j 07:37	6° C 49'13		direct	-3353 Mar 02 j 12:52	24° C 37'09	
conjunction	-3361 May 29 j 22:39	9° C 21'22	-1°-13'-7	conjunction	-3353 Jun 17 j 11:29	27° C 09'25	0°-36'-53
minimum elong	-3361 May 29 j 22:40	9° C 21'22	1°13'04	minimum elong	-3353 Jun 17 j 11:29	27° C 09'25	0°36'48
max. Earth dist.	-3361 May 29 j 12:47	9° C 20'27	30.97516 AU	max. Earth dist.	-3353 Jun 16 j 17:27	27° C 07'45	31.03820 AU
retrograde	-3361 Sep 11 j 08:59	11° C 51'36		retrograde	-3353 Sep 29 j 02:25	29° C 38'16	
opposition	-3361 Nov 27 j 16:17	10° C 28'14	-1°-15'-56	opposition	-3353 Dec 15 j 03:11	28° C 15'22	0°-36'-53

Attention, astronomical year style is used: The year -3353 in astronomical counting style is the year 3354 BCE in historical counting style.

min. Earth dist.	-3353 Dec 15 j 18:11	28° 8 14'18	29.04298 AU	direct	-3345 Mar 20 j 13:35	12° II 18'43	
direct	-3352 Mar 04 j 00:09	26° 8 49'56					
max. Earth dist.	-3352 Jun 18 j 07:05	29° 8 20'35	31.04750 AU	conjunction	-3345 Jul 05 j 18:20	14° II 51'02	0°02'42
				minimum elong	-3345 Jul 05 j 18:21	14° II 51'02	0°02'49
conjunction	-3352 Jun 19 j 00:39	29° 8 22'13	0°-32'-4	behind sun begin	-3345 Jul 05 j 11:48	14° II 50'27	
minimum elong	-3352 Jun 19 j 00:39	29° 8 22'13	0°31'59	behind sun end	-3345 Jul 06 j 00:53	14° II 51'36	
	-3352 Jul 06 j 03:10	0° II		max. Earth dist.	-3345 Jul 04 j 20:11	14° II 48'58	31.11604 AU
retrograde	-3352 Sep 30 j 11:15	1° II 50'55		retrograde	-3345 Oct 16 j 14:05	17° II 18'49	
opposition	-3352 Dec 16 j 13:38	0° II 28'05	0°-31'-42	opposition	-3344 Jan 01 j 15:23	15° II 56'28	0°05'26
min. Earth dist.	-3352 Dec 17 j 05:57	0° II 26'56	29.05288 AU	min. Earth dist.	-3344 Jan 02 j 12:14	15° II 55'01	29.11957 AU
	-3351 Jan 02 j 12:35	30° R 8		direct	-3344 Mar 22 j 03:08	14° II 31'03	
direct	-3351 Mar 06 j 10:38	29° 8 02'40		max. Earth dist.	-3344 Jul 06 j 06:50	17° II 01'06	31.12252 AU
	-3351 May 06 j 14:12	0° II					
conjunction	-3351 Jun 21 j 13:29	1° II 34'57	0°-27'-11	conjunction	-3344 Jul 07 j 06:42	17° II 03'19	0°07'40
minimum elong	-3351 Jun 21 j 13:30	1° II 34'57	0°27'06	minimum elong	-3344 Jul 07 j 06:41	17° II 03'19	0°07'47
max. Earth dist.	-3351 Jun 20 j 18:54	1° II 33'14	31.05804 AU	behind sun begin	-3344 Jul 07 j 00:48	17° II 02'48	
retrograde	-3351 Oct 02 j 21:42	4° II 03'32		behind sun end	-3344 Jul 07 j 12:34	17° II 03'51	
opposition	-3351 Dec 18 j 23:56	2° II 40'47	0°-26'-27	retrograde	-3344 Oct 18 j 01:36	19° II 30'58	
min. Earth dist.	-3351 Dec 19 j 15:46	2° II 39'41	29.06372 AU	opposition	-3343 Jan 03 j 01:53	18° II 08'38	0°10'45
direct	-3350 Mar 08 j 23:34	1° II 15'23		min. Earth dist.	-3343 Jan 03 j 22:30	18° II 07'12	29.12585 AU
max. Earth dist.	-3350 Jun 23 j 07:40	3° II 45'57	31.06911 AU	direct	-3343 Mar 24 j 15:13	16° II 43'11	
				conjunction	-3343 Jul 09 j 18:58	19° II 15'24	0°12'37
conjunction	-3350 Jun 24 j 02:32	3° II 47'42	0°-22'-16	minimum elong	-3343 Jul 09 j 18:59	19° II 15'24	0°12'44
minimum elong	-3350 Jun 24 j 02:32	3° II 47'42	0°22'11	behind sun begin	-3343 Jul 09 j 14:55	19° II 15'03	
retrograde	-3350 Oct 05 j 07:40	6° II 16'09		behind sun end	-3343 Jul 09 j 23:02	19° II 15'46	
opposition	-3350 Dec 21 j 10:22	4° II 53'30	0°-21'-11	max. Earth dist.	-3343 Jul 08 j 19:37	19° II 13'14	31.12857 AU
min. Earth dist.	-3350 Dec 22 j 03:46	4° II 52'17	29.07494 AU	retrograde	-3343 Oct 20 j 09:58	21° II 42'55	
direct	-3349 Mar 11 j 10:11	3° II 28'07		opposition	-3342 Jan 05 j 12:35	20° II 20'36	0°16'02
				min. Earth dist.	-3342 Jan 06 j 10:36	20° II 19'04	29.13189 AU
conjunction	-3349 Jun 26 j 15:28	6° II 00'27	0°-17'-20	direct	-3342 Mar 27 j 02:47	18° II 55'07	
minimum elong	-3349 Jun 26 j 15:28	6° II 00'27	0°17'14	max. Earth dist.	-3342 Jul 11 j 06:47	21° II 25'03	31.13476 AU
max. Earth dist.	-3349 Jun 25 j 19:59	5° II 58'39	31.08031 AU				
retrograde	-3349 Oct 07 j 18:53	8° II 28'48		conjunction	-3342 Jul 12 j 07:02	21° II 27'18	0°17'33
opposition	-3349 Dec 23 j 20:52	7° II 06'14	0°-15'-53	minimum elong	-3342 Jul 12 j 07:02	21° II 27'18	0°17'40
min. Earth dist.	-3349 Dec 24 j 14:11	7° II 05'01	29.08583 AU	retrograde	-3342 Oct 22 j 19:41	23° II 54'40	
direct	-3348 Mar 12 j 23:16	5° II 40'52		opposition	-3341 Jan 07 j 23:05	22° II 32'23	0°21'18
max. Earth dist.	-3348 Jun 27 j 07:28	8° II 11'18	31.09081 AU	min. Earth dist.	-3341 Jan 08 j 20:21	22° II 30'54	29.13830 AU
				direct	-3341 Mar 29 j 15:31	21° II 06'52	
conjunction	-3348 Jun 28 j 04:11	8° II 13'13	0°-12'-22				
minimum elong	-3348 Jun 28 j 04:10	8° II 13'13	0°12'16	conjunction	-3341 Jul 14 j 19:03	23° II 39'01	0°22'27
behind sun begin	-3348 Jun 27 j 23:52	8° II 12'50		minimum elong	-3341 Jul 14 j 19:03	23° II 39'01	0°22'34
behind sun end	-3348 Jun 28 j 08:28	8° II 13'36		max. Earth dist.	-3341 Jul 13 j 19:01	23° II 36'47	31.14148 AU
retrograde	-3348 Oct 09 j 06:24	10° II 41'27		retrograde	-3341 Oct 25 j 05:00	26° II 06'17	
opposition	-3348 Dec 25 j 07:32	9° II 18'57	0°-10'-33	opposition	-3340 Jan 10 j 09:54	24° II 44'01	0°26'32
min. Earth dist.	-3348 Dec 26 j 02:06	9° II 17'39	29.09600 AU	min. Earth dist.	-3340 Jan 11 j 08:06	24° II 42'29	29.14565 AU
direct	-3347 Mar 15 j 11:12	7° II 53'35		direct	-3340 Mar 31 j 01:39	23° II 18'31	
				max. Earth dist.	-3340 Jul 15 j 06:47	25° II 48'23	31.14941 AU
conjunction	-3347 Jun 30 j 17:00	10° II 25'56	0°-7'-24				
minimum elong	-3347 Jun 30 j 17:01	10° II 25'56	0°07'18	conjunction	-3340 Jul 16 j 06:43	25° II 50'37	0°27'19
behind sun begin	-3347 Jun 30 j 11:01	10° II 25'24		minimum elong	-3340 Jul 16 j 06:43	25° II 50'37	0°27'26
behind sun end	-3347 Jun 30 j 23:01	10° II 26'28		retrograde	-3340 Oct 26 j 15:13	28° II 17'48	
max. Earth dist.	-3347 Jun 29 j 20:17	10° II 24'01	31.10041 AU	opposition	-3339 Jan 11 j 20:34	26° II 55'35	0°31'43
retrograde	-3347 Oct 11 j 17:21	12° II 54'01		min. Earth dist.	-3339 Jan 12 j 17:58	26° II 54'06	29.15411 AU
opposition	-3347 Dec 27 j 18:02	11° II 31'35	0°-5'-13	direct	-3339 Apr 02 j 14:10	25° II 30'06	
min. Earth dist.	-3347 Dec 28 j 13:15	11° II 30'14	29.10494 AU				
direct	-3346 Mar 18 j 01:38	10° II 06'13		conjunction	-3339 Jul 18 j 18:26	28° II 02'11	0°32'09
max. Earth dist.	-3346 Jul 02 j 07:09	12° II 36'28	31.10878 AU	minimum elong	-3339 Jul 18 j 18:26	28° II 02'11	0°32'16
				max. Earth dist.	-3339 Jul 17 j 18:00	27° II 59'55	31.15843 AU
conjunction	-3346 Jul 03 j 05:43	12° II 38'33	0°-2'-24				
minimum elong	-3346 Jul 03 j 05:42	12° II 38'33	0°02'19	retrograde	-3339 Sep 17 j 11:30	0° II	
behind sun begin	-3346 Jul 02 j 23:09	12° II 37'58					
behind sun end	-3346 Jul 03 j 12:16	12° II 39'08		opposition	-3338 Jan 14 j 07:10	29° II 07'09	0°36'51
retrograde	-3346 Oct 14 j 04:33	15° II 06'30		min. Earth dist.	-3338 Jan 15 j 05:11	29° II 05'37	29.16377 AU
asc. node	-3346 Dec 23 j 04:40	13° II 55'48		direct	-3338 Apr 05 j 01:28	27° II 41'42	
opposition	-3346 Dec 30 j 04:40	13° II 44'06	0°00'06				
min. Earth dist.	-3346 Dec 31 j 00:25	13° II 42'44	29.11281 AU	max. Earth dist.	-3338 Jul 20 j 06:29	0° II 11'35	31.16849 AU

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Attention, astronomical year style is used: The year -3338 in astronomical counting style is the year 3339 BCE in historical counting style.

conjunction	-3338 Jul 21 j 06:12	0°☾13'48	0°36'56	minimum elong	-3330 Aug 08 j 00:41	17°☾46'46	1°12'47
minimum elong	-3338 Jul 21 j 06:12	0°☾13'48	0°37'03	retrograde	-3330 Nov 17 j 22:05	20°☾13'16	
retrograde	-3338 Oct 31 j 13:08	2°☾40'50		opposition	-3329 Feb 03 j 10:38	18°☾51'26	1°19'46
opposition	-3337 Jan 16 j 18:00	1°☾18'46	0°41'56	min. Earth dist.	-3329 Feb 04 j 10:40	18°☾49'47	29.23254 AU
min. Earth dist.	-3337 Jan 17 j 16:04	1°☾17'15	29.17402 AU	direct	-3329 Apr 25 j 15:31	17°☾26'10	
	-3337 Mar 18 j 04:56	30°☾II		max. Earth dist.	-3329 Aug 09 j 10:27	19°☾55'26	31.23412 AU
direct	-3337 Apr 07 j 15:11	29°☾II53'23					
	-3337 Apr 27 j 20:44	0°☾		conjunction	-3329 Aug 10 j 11:23	19°☾57'46	1°16'43
				minimum elong	-3329 Aug 10 j 11:23	19°☾57'46	1°16'50
conjunction	-3337 Jul 23 j 17:40	2°☾25'29	0°41'40	retrograde	-3329 Nov 20 j 07:40	22°☾24'12	
minimum elong	-3337 Jul 23 j 17:39	2°☾25'29	0°41'47	opposition	-3328 Feb 05 j 21:58	21°☾02'20	1°24'02
max. Earth dist.	-3337 Jul 22 j 16:55	2°☾23'10	31.17885 AU	min. Earth dist.	-3328 Feb 06 j 21:39	21°☾00'43	29.23752 AU
retrograde	-3337 Nov 03 j 00:30	4°☾52'29		direct	-3328 Apr 27 j 04:36	19°☾37'04	
opposition	-3336 Jan 19 j 04:52	3°☾30'29	0°46'58				
min. Earth dist.	-3336 Jan 20 j 02:55	3°☾28'58	29.18448 AU	conjunction	-3328 Aug 11 j 21:58	22°☾08'35	1°20'39
direct	-3336 Apr 09 j 02:09	2°☾05'10		minimum elong	-3328 Aug 11 j 21:57	22°☾08'35	1°20'45
max. Earth dist.	-3336 Jul 24 j 05:25	4°☾35'01	31.18904 AU	max. Earth dist.	-3328 Aug 10 j 20:27	22°☾06'12	31.23945 AU
				retrograde	-3328 Nov 21 j 18:53	24°☾34'59	
conjunction	-3336 Jul 25 j 05:18	4°☾37'15	0°46'20	opposition	-3327 Feb 07 j 09:07	23°☾13'07	1°28'10
minimum elong	-3336 Jul 25 j 05:17	4°☾37'15	0°46'27	min. Earth dist.	-3327 Feb 08 j 08:10	23°☾11'32	29.24348 AU
retrograde	-3336 Nov 04 j 10:43	7°☾04'11		direct	-3327 Apr 29 j 15:22	21°☾47'52	
opposition	-3335 Jan 20 j 15:50	5°☾42'16	0°51'55	max. Earth dist.	-3327 Aug 13 j 08:34	24°☾17'05	31.24579 AU
min. Earth dist.	-3335 Jan 21 j 14:46	5°☾40'41	29.19438 AU				
direct	-3335 Apr 11 j 15:49	4°☾17'00		conjunction	-3327 Aug 14 j 08:37	24°☾19'20	1°24'28
				minimum elong	-3327 Aug 14 j 08:36	24°☾19'20	1°24'34
conjunction	-3335 Jul 27 j 16:42	6°☾49'03	0°50'56	retrograde	-3327 Nov 24 j 04:52	26°☾45'42	
minimum elong	-3335 Jul 27 j 16:42	6°☾49'03	0°51'04	opposition	-3326 Feb 09 j 20:32	25°☾23'52	1°32'11
max. Earth dist.	-3335 Jul 26 j 15:22	6°☾46'42	31.19849 AU	min. Earth dist.	-3326 Feb 10 j 19:47	25°☾22'16	29.25025 AU
retrograde	-3335 Nov 06 j 22:56	9°☾15'56		direct	-3326 May 02 j 05:01	23°☾58'40	
opposition	-3334 Jan 23 j 02:48	7°☾54'04	0°56'48				
min. Earth dist.	-3334 Jan 24 j 01:18	7°☾52'31	29.20336 AU	conjunction	-3326 Aug 16 j 19:00	26°☾30'04	1°28'09
direct	-3334 Apr 14 j 04:27	6°☾28'49		minimum elong	-3326 Aug 16 j 19:00	26°☾30'04	1°28'16
max. Earth dist.	-3334 Jul 29 j 03:25	8°☾58'32	31.20673 AU	max. Earth dist.	-3326 Aug 15 j 18:19	26°☾27'46	31.25300 AU
				retrograde	-3326 Nov 26 j 16:57	28°☾56'26	
conjunction	-3334 Jul 30 j 04:14	9°☾00'51	0°55'28	opposition	-3325 Feb 12 j 07:53	27°☾34'38	1°36'04
minimum elong	-3334 Jul 30 j 04:14	9°☾00'51	0°55'35	min. Earth dist.	-3325 Feb 13 j 05:56	27°☾33'08	29.25781 AU
retrograde	-3334 Nov 09 j 07:26	11°☾27'40		direct	-3325 May 04 j 17:20	26°☾09'31	
opposition	-3333 Jan 25 j 14:00	10°☾05'50	1°01'35	max. Earth dist.	-3325 Aug 18 j 06:02	28°☾38'41	31.26066 AU
min. Earth dist.	-3333 Jan 26 j 13:52	10°☾04'11	29.21105 AU				
direct	-3333 Apr 16 j 16:33	8°☾40'37		conjunction	-3325 Aug 19 j 05:32	28°☾40'53	1°31'43
				minimum elong	-3325 Aug 19 j 05:31	28°☾40'53	1°31'50
conjunction	-3333 Aug 01 j 15:34	11°☾12'34	0°59'54		-3325 Sep 25 j 07:54	0°☾	
minimum elong	-3333 Aug 01 j 15:33	11°☾12'34	1°00'01	retrograde	-3325 Nov 29 j 02:07	1°☾07'16	
max. Earth dist.	-3333 Jul 31 j 13:51	11°☾10'10	31.21385 AU		-3324 Feb 05 j 22:39	30°☾R☾	
retrograde	-3333 Nov 11 j 17:09	13°☾39'18		opposition	-3324 Feb 14 j 19:30	29°☾45'32	1°39'48
opposition	-3332 Jan 28 j 01:08	12°☾17'30	1°06'17	min. Earth dist.	-3324 Feb 15 j 18:22	29°☾43'58	29.26560 AU
min. Earth dist.	-3332 Jan 29 j 00:15	12°☾15'54	29.21758 AU	direct	-3324 May 06 j 05:04	28°☾20'29	
direct	-3332 Apr 18 j 05:08	10°☾52'17			-3324 Jul 28 j 02:52	0°☾	
max. Earth dist.	-3332 Aug 02 j 01:05	13°☾21'47	31.21973 AU				
				conjunction	-3324 Aug 20 j 15:45	0°☾51'49	1°35'09
conjunction	-3332 Aug 03 j 02:42	13°☾24'10	1°04'15	minimum elong	-3324 Aug 20 j 15:45	0°☾51'49	1°35'16
minimum elong	-3332 Aug 03 j 02:41	13°☾24'10	1°04'22	max. Earth dist.	-3324 Aug 19 j 16:02	0°☾49'35	31.26834 AU
retrograde	-3332 Nov 13 j 02:27	15°☾50'49		retrograde	-3324 Nov 30 j 12:23	3°☾18'13	
opposition	-3331 Jan 29 j 12:21	14°☾29'01	1°10'53	opposition	-3323 Feb 16 j 07:01	1°☾56'32	1°43'24
min. Earth dist.	-3331 Jan 30 j 12:36	14°☾27'21	29.22310 AU	min. Earth dist.	-3323 Feb 17 j 04:47	1°☾55'02	29.27299 AU
direct	-3331 Apr 20 j 15:23	13°☾03'47		direct	-3323 May 08 j 17:26	0°☾31'34	
				max. Earth dist.	-3323 Aug 22 j 02:46	3°☾00'40	31.27519 AU
conjunction	-3331 Aug 05 j 13:46	15°☾35'34	1°08'31				
minimum elong	-3331 Aug 05 j 13:45	15°☾35'34	1°08'38	conjunction	-3323 Aug 23 j 02:10	3°☾02'51	1°38'27
max. Earth dist.	-3331 Aug 04 j 12:08	15°☾33'11	31.22484 AU	minimum elong	-3323 Aug 23 j 02:10	3°☾02'51	1°38'33
retrograde	-3331 Nov 15 j 11:47	18°☾02'08		retrograde	-3323 Dec 02 j 22:19	5°☾29'17	
opposition	-3330 Jan 31 j 23:22	16°☾40'20	1°15'23	opposition	-3322 Feb 18 j 18:40	4°☾07'39	1°46'51
min. Earth dist.	-3330 Feb 01 j 23:00	16°☾38'42	29.22785 AU	min. Earth dist.	-3322 Feb 19 j 17:20	4°☾06'06	29.27946 AU
direct	-3330 Apr 23 j 04:26	15°☾15'04		direct	-3322 May 11 j 03:33	2°☾42'45	
max. Earth dist.	-3330 Aug 06 j 22:37	17°☾44'20	31.22938 AU				
				conjunction	-3322 Aug 25 j 12:33	5°☾13'59	1°41'37
conjunction	-3330 Aug 08 j 00:42	17°☾46'46	1°12'40	minimum elong	-3322 Aug 25 j 12:33	5°☾13'59	1°41'42

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Attention, astronomical year style is used: The year -3322 in astronomical counting style is the year 3323 BCE in historical counting style.

max. Earth dist.	-3322 Aug 24 j 13:25	5°Ω11'49	31.28100 AU	max. Earth dist.	-3314 Sep 10 j 23:53	22°Ω38'59	31.29271 AU
retrograde	-3322 Dec 05 j 08:05	7°Ω40'27		retrograde	-3314 Dec 22 j 20:00	25°Ω07'29	
opposition	-3321 Feb 21 j 06:28	6°Ω18'50	1°50'08	opposition	-3313 Mar 11 j 06:00	23°Ω45'35	2°10'26
min. Earth dist.	-3321 Feb 22 j 04:21	6°Ω17'20	29.28454 AU	min. Earth dist.	-3313 Mar 12 j 01:04	23°Ω44'18	29.29546 AU
direct	-3321 May 13 j 16:22	4°Ω53'59		direct	-3313 May 31 j 16:31	22°Ω20'58	
				max. Earth dist.	-3313 Sep 13 j 10:27	24°Ω49'36	31.29522 AU
conjunction	-3321 Aug 27 j 22:43	7°Ω25'09	1°44'37	conjunction	-3313 Sep 14 j 05:04	24°Ω51'21	2°02'56
minimum elong	-3321 Aug 27 j 22:42	7°Ω25'09	1°44'43	minimum elong	-3313 Sep 14 j 05:04	24°Ω51'21	2°03'01
max. Earth dist.	-3321 Aug 26 j 23:05	7°Ω22'56	31.28528 AU	retrograde	-3313 Dec 25 j 05:10	27°Ω18'03	
retrograde	-3321 Dec 07 j 18:50	9°Ω51'39		opposition	-3312 Mar 12 j 18:07	25°Ω56'10	2°12'09
opposition	-3320 Feb 23 j 18:24	8°Ω30'02	1°53'17	min. Earth dist.	-3312 Mar 13 j 11:45	25°Ω54'59	29.29807 AU
min. Earth dist.	-3320 Feb 24 j 16:37	8°Ω28'31	29.28824 AU	direct	-3312 Jun 02 j 05:07	24°Ω31'37	
direct	-3320 May 15 j 02:45	7°Ω05'14					
max. Earth dist.	-3320 Aug 28 j 10:21	9°Ω34'12	31.28816 AU	conjunction	-3312 Sep 15 j 14:31	27°Ω01'55	2°04'28
				minimum elong	-3312 Sep 15 j 14:31	27°Ω01'55	2°04'31
conjunction	-3320 Aug 29 j 09:00	9°Ω36'19	1°47'29	max. Earth dist.	-3312 Sep 14 j 19:54	27°Ω00'10	31.29789 AU
minimum elong	-3320 Aug 29 j 09:00	9°Ω36'19	1°47'34	retrograde	-3312 Dec 26 j 15:38	29°Ω28'43	
retrograde	-3320 Dec 09 j 04:33	12°Ω02'50		opposition	-3311 Mar 15 j 06:13	28°Ω06'50	2°13'41
opposition	-3319 Feb 25 j 06:09	10°Ω41'11	1°56'15	min. Earth dist.	-3311 Mar 15 j 23:42	28°Ω05'39	29.30078 AU
min. Earth dist.	-3319 Feb 26 j 04:18	10°Ω39'40	29.29036 AU	direct	-3311 Jun 04 j 14:49	26°Ω42'21	
direct	-3319 May 17 j 14:57	9°Ω16'24		max. Earth dist.	-3311 Sep 17 j 06:59	29°Ω10'59	31.30034 AU
conjunction	-3319 Aug 31 j 19:05	11°Ω47'24	1°50'11	conjunction	-3311 Sep 18 j 00:06	29°Ω12'35	2°05'48
minimum elong	-3319 Aug 31 j 19:04	11°Ω47'24	1°50'16	minimum elong	-3311 Sep 18 j 00:06	29°Ω12'35	2°05'53
max. Earth dist.	-3319 Aug 30 j 19:35	11°Ω45'12	31.28962 AU	retrograde	-3311 Oct 09 j 08:19	0°♄	
retrograde	-3319 Dec 11 j 16:05	14°Ω13'56		opposition	-3311 Dec 29 j 01:20	1°♄39'28	
opposition	-3318 Feb 27 j 18:01	12°Ω52'14	1°59'03	opposition	-3310 Mar 17 j 18:34	0°♄17'35	2°15'01
min. Earth dist.	-3318 Feb 28 j 15:40	12°Ω50'46	29.29134 AU	min. Earth dist.	-3310 Mar 18 j 11:35	0°♄16'25	29.30283 AU
direct	-3318 May 20 j 01:45	11°Ω27'28					
max. Earth dist.	-3318 Sep 02 j 07:03	13°Ω56'18	31.29004 AU	direct	-3310 Mar 28 j 15:59	30°♄	
				direct	-3310 Jun 07 j 02:27	28°Ω53'10	
conjunction	-3318 Sep 03 j 05:06	13°Ω58'22	1°52'43				
minimum elong	-3318 Sep 03 j 05:05	13°Ω58'22	1°52'49	conjunction	-3310 Aug 12 j 06:10	0°♄	
				minimum elong	-3310 Sep 20 j 09:26	1°♄23'19	2°06'58
retrograde	-3318 Oct 01 j 09:25	15°Ω		maximum Earth dist.	-3310 Sep 20 j 09:26	1°♄23'19	2°07'01
opposition	-3318 Dec 14 j 02:20	16°Ω24'54		retrograde	-3310 Sep 19 j 15:53	1°♄21'40	31.30195 AU
opposition	-3317 Mar 02 j 06:02	15°Ω03'09	2°01'41	opposition	-3310 Dec 31 j 13:25	3°♄50'18	
min. Earth dist.	-3317 Mar 03 j 03:54	15°Ω01'40	29.29144 AU	opposition	-3309 Mar 20 j 07:01	2°♄28'23	2°16'10
				min. Earth dist.	-3309 Mar 20 j 23:11	2°♄27'18	29.30399 AU
direct	-3317 Mar 04 j 04:26	15°♄		direct	-3309 Jun 09 j 12:57	1°♄04'03	
conjunction	-3317 May 22 j 15:46	13°Ω38'24		conjunction	-3309 Sep 22 j 19:02	3°♄34'07	2°07'57
				minimum elong	-3309 Sep 22 j 19:02	3°♄34'07	2°08'01
conjunction	-3317 Sep 05 j 14:49	16°Ω09'10	1°55'06	max. Earth dist.	-3309 Sep 22 j 02:59	3°♄32'36	31.30241 AU
minimum elong	-3317 Sep 05 j 14:49	16°Ω09'10	1°55'12	retrograde	-3308 Jan 03 j 00:01	6°♄01'11	
max. Earth dist.	-3317 Sep 04 j 16:20	16°Ω07'03	31.29005 AU	opposition	-3308 Mar 21 j 19:32	4°♄39'14	2°17'07
retrograde	-3317 Dec 16 j 14:27	18°Ω35'42		min. Earth dist.	-3308 Mar 22 j 11:54	4°♄38'08	29.30380 AU
opposition	-3316 Mar 03 j 17:54	17°Ω13'54	2°04'08	direct	-3308 Jun 11 j 01:30	3°♄14'57	
min. Earth dist.	-3316 Mar 04 j 14:18	17°Ω12'31	29.29154 AU	max. Earth dist.	-3308 Sep 23 j 11:49	5°♄43'22	31.30155 AU
direct	-3316 May 24 j 04:10	15°Ω49'09					
max. Earth dist.	-3316 Sep 06 j 03:28	18°Ω17'50	31.29018 AU				
conjunction	-3316 Sep 07 j 00:30	18°Ω19'49	1°57'19	conjunction	-3308 Sep 24 j 04:23	5°♄44'55	2°08'45
minimum elong	-3316 Sep 07 j 00:30	18°Ω19'49	1°57'23	minimum elong	-3308 Sep 24 j 04:23	5°♄44'55	2°08'48
retrograde	-3316 Dec 17 j 23:25	20°Ω46'22		retrograde	-3307 Jan 04 j 12:29	8°♄12'04	
opposition	-3315 Mar 06 j 05:58	19°Ω24'31	2°06'25	opposition	-3307 Mar 24 j 07:57	6°♄50'04	2°17'53
min. Earth dist.	-3315 Mar 07 j 02:43	19°Ω23'07	29.29203 AU	min. Earth dist.	-3307 Mar 24 j 22:57	6°♄49'04	29.30219 AU
direct	-3315 May 26 j 16:15	17°Ω59'47		direct	-3307 Jun 13 j 13:09	5°♄25'49	
conjunction	-3315 Sep 09 j 10:04	20°Ω30'21	1°59'22	conjunction	-3307 Sep 26 j 13:51	7°♄55'42	2°09'22
minimum elong	-3315 Sep 09 j 10:04	20°Ω30'21	1°59'26	minimum elong	-3307 Sep 26 j 13:51	7°♄55'42	2°09'25
max. Earth dist.	-3315 Sep 08 j 13:23	20°Ω28'24	31.29106 AU	max. Earth dist.	-3307 Sep 25 j 22:22	7°♄54'14	31.29914 AU
retrograde	-3315 Dec 20 j 09:36	22°Ω56'56		retrograde	-3306 Jan 06 j 22:22	10°♄22'55	
opposition	-3314 Mar 08 j 17:48	21°Ω35'03	2°08'31	opposition	-3306 Mar 26 j 20:32	9°♄00'52	2°18'27
min. Earth dist.	-3314 Mar 09 j 12:46	21°Ω33'46	29.29329 AU	min. Earth dist.	-3306 Mar 27 j 12:06	8°♄59'49	29.29915 AU
direct	-3314 May 29 j 05:30	20°Ω10'22		direct	-3306 Jun 16 j 01:16	7°♄36'38	
conjunction	-3314 Sep 11 j 19:40	22°Ω40'50	2°01'14	conjunction	-3306 Sep 28 j 23:10	10°♄06'24	2°09'48
minimum elong	-3314 Sep 11 j 19:40	22°Ω40'50	2°01'18	minimum elong	-3306 Sep 28 j 23:10	10°♄06'24	2°09'50

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Attention, astronomical year style is used: The year -3306 in astronomical counting style is the year 3307 BCE in historical counting style.

max. Earth dist.	-3306 Sep 28 j 08:02	10° $\mathring{\mu}$ 04'58	31.29565 AU	min. Earth dist.	-3297 Apr 16 j 21:33	28° $\mathring{\mu}$ 36'17	29.27593 AU
retrograde	-3305 Jan 09 j 09:23	12° $\mathring{\mu}$ 33'41		direct	-3297 Jul 06 j 07:32	27° $\mathring{\mu}$ 13'04	
opposition	-3305 Mar 29 j 09:04	11° $\mathring{\mu}$ 11'33	2°18'49				
min. Earth dist.	-3305 Mar 29 j 22:57	11° $\mathring{\mu}$ 10'37	29.29515 AU	conjunction	-3297 Oct 18 j 08:30	29° $\mathring{\mu}$ 42'01	2°05'22
direct	-3305 Jun 18 j 14:50	9° $\mathring{\mu}$ 47'20		minimum elong	-3297 Oct 18 j 08:30	29° $\mathring{\mu}$ 42'01	2°05'22
				max. Earth dist.	-3297 Oct 18 j 02:02	29° $\mathring{\mu}$ 41'25	31.27340 AU
conjunction	-3305 Oct 01 j 08:17	12° $\mathring{\mu}$ 16'59	2°10'03		-3297 Oct 26 j 06:46	0° $\mathring{\mu}$	
minimum elong	-3305 Oct 01 j 08:17	12° $\mathring{\mu}$ 16'59	2°10'05	retrograde	-3296 Jan 29 j 12:32	2° $\mathring{\mu}$ 10'27	
max. Earth dist.	-3305 Sep 30 j 17:53	12° $\mathring{\mu}$ 15'37	31.29134 AU	opposition	-3296 Apr 18 j 03:13	0° $\mathring{\mu}$ 47'56	2°13'12
retrograde	-3304 Jan 11 j 20:06	14° $\mathring{\mu}$ 44'21		min. Earth dist.	-3296 Apr 18 j 08:44	0° $\mathring{\mu}$ 47'33	29.27341 AU
opposition	-3304 Mar 30 j 21:42	13° $\mathring{\mu}$ 22'08	2°18'59		-3296 May 19 j 16:04	30° $\mathring{\mu}$	
min. Earth dist.	-3304 Mar 31 j 11:42	13° $\mathring{\mu}$ 21'11	29.29079 AU	direct	-3296 Jul 07 j 20:54	29° $\mathring{\mu}$ 24'18	
direct	-3304 Jun 20 j 02:27	11° $\mathring{\mu}$ 57'57			-3296 Aug 23 j 23:28	0° $\mathring{\mu}$	
conjunction	-3304 Oct 02 j 17:26	14° $\mathring{\mu}$ 27'27	2°10'07	conjunction	-3296 Oct 19 j 17:42	1° $\mathring{\mu}$ 53'11	2°03'57
minimum elong	-3304 Oct 02 j 17:26	14° $\mathring{\mu}$ 27'28	2°10'08	minimum elong	-3296 Oct 19 j 17:43	1° $\mathring{\mu}$ 53'11	2°03'56
max. Earth dist.	-3304 Oct 02 j 04:24	14° $\mathring{\mu}$ 26'14	31.28704 AU	max. Earth dist.	-3296 Oct 19 j 11:36	1° $\mathring{\mu}$ 52'36	31.27022 AU
retrograde	-3303 Jan 13 j 05:04	16° $\mathring{\mu}$ 54'54		retrograde	-3295 Jan 31 j 00:37	4° $\mathring{\mu}$ 21'44	
opposition	-3303 Apr 02 j 10:02	15° $\mathring{\mu}$ 32'37	2°18'57	opposition	-3295 Apr 20 j 16:09	2° $\mathring{\mu}$ 59'10	2°11'36
min. Earth dist.	-3303 Apr 02 j 22:23	15° $\mathring{\mu}$ 31'47	29.28660 AU	min. Earth dist.	-3295 Apr 20 j 21:59	2° $\mathring{\mu}$ 58'46	29.26958 AU
direct	-3303 Jun 22 j 15:19	14° $\mathring{\mu}$ 08'27		direct	-3295 Jul 10 j 08:20	1° $\mathring{\mu}$ 35'35	
conjunction	-3303 Oct 05 j 02:28	16° $\mathring{\mu}$ 37'52	2°10'00	conjunction	-3295 Oct 22 j 02:59	4° $\mathring{\mu}$ 04'22	2°02'22
minimum elong	-3303 Oct 05 j 02:28	16° $\mathring{\mu}$ 37'52	2°10'01	minimum elong	-3295 Oct 22 j 02:59	4° $\mathring{\mu}$ 04'22	2°02'22
max. Earth dist.	-3303 Oct 04 j 13:39	16° $\mathring{\mu}$ 36'39	31.28318 AU	max. Earth dist.	-3295 Oct 21 j 22:03	4° $\mathring{\mu}$ 03'54	31.26574 AU
retrograde	-3302 Jan 15 j 15:29	19° $\mathring{\mu}$ 05'25		retrograde	-3294 Feb 02 j 10:17	6° $\mathring{\mu}$ 33'03	
opposition	-3302 Apr 04 j 22:40	17° $\mathring{\mu}$ 43'04	2°18'44	opposition	-3294 Apr 23 j 05:11	5° $\mathring{\mu}$ 10'24	2°09'48
min. Earth dist.	-3302 Apr 05 j 10:17	17° $\mathring{\mu}$ 42'17	29.28329 AU	min. Earth dist.	-3294 Apr 23 j 09:35	5° $\mathring{\mu}$ 10'07	29.26424 AU
direct	-3302 Jun 25 j 01:21	16° $\mathring{\mu}$ 18'56		direct	-3294 Jul 12 j 21:26	3° $\mathring{\mu}$ 46'52	
conjunction	-3302 Oct 07 j 11:28	18° $\mathring{\mu}$ 48'15	2°09'41	conjunction	-3294 Oct 24 j 12:01	6° $\mathring{\mu}$ 15'32	2°00'36
minimum elong	-3302 Oct 07 j 11:28	18° $\mathring{\mu}$ 48'15	2°09'42	minimum elong	-3294 Oct 24 j 12:01	6° $\mathring{\mu}$ 15'32	2°00'35
max. Earth dist.	-3302 Oct 07 j 00:48	18° $\mathring{\mu}$ 47'15	31.28036 AU	max. Earth dist.	-3294 Oct 24 j 06:54	6° $\mathring{\mu}$ 15'03	31.25979 AU
retrograde	-3301 Jan 18 j 01:00	21° $\mathring{\mu}$ 15'56		retrograde	-3293 Feb 04 j 21:22	8° $\mathring{\mu}$ 44'19	
opposition	-3301 Apr 07 j 11:21	19° $\mathring{\mu}$ 53'32	2°18'18	opposition	-3293 Apr 25 j 18:20	7° $\mathring{\mu}$ 21'35	2°07'49
min. Earth dist.	-3301 Apr 07 j 21:48	19° $\mathring{\mu}$ 52'50	29.28088 AU	min. Earth dist.	-3293 Apr 25 j 22:23	7° $\mathring{\mu}$ 21'19	29.25772 AU
direct	-3301 Jun 27 j 12:46	18° $\mathring{\mu}$ 29'29		direct	-3293 Jul 15 j 08:40	5° $\mathring{\mu}$ 58'04	
conjunction	-3301 Oct 09 j 20:25	20° $\mathring{\mu}$ 58'43	2°09'12	conjunction	-3293 Oct 26 j 21:15	8° $\mathring{\mu}$ 26'36	1°58'40
minimum elong	-3301 Oct 09 j 20:25	20° $\mathring{\mu}$ 58'43	2°09'14	minimum elong	-3293 Oct 26 j 21:16	8° $\mathring{\mu}$ 26'36	1°58'40
max. Earth dist.	-3301 Oct 09 j 09:50	20° $\mathring{\mu}$ 57'43	31.27853 AU	max. Earth dist.	-3293 Oct 26 j 17:59	8° $\mathring{\mu}$ 26'18	31.25280 AU
retrograde	-3300 Jan 20 j 13:12	23° $\mathring{\mu}$ 26'32		retrograde	-3292 Feb 07 j 07:03	10° $\mathring{\mu}$ 55'30	
opposition	-3300 Apr 08 j 23:52	22° $\mathring{\mu}$ 04'07	2°17'41	opposition	-3292 Apr 27 j 07:15	9° $\mathring{\mu}$ 32'40	2°05'40
min. Earth dist.	-3300 Apr 09 j 08:56	22° $\mathring{\mu}$ 03'30	29.27950 AU	min. Earth dist.	-3292 Apr 27 j 10:29	9° $\mathring{\mu}$ 32'26	29.25027 AU
direct	-3300 Jun 28 j 22:38	20° $\mathring{\mu}$ 40'09		direct	-3292 Jul 16 j 21:12	8° $\mathring{\mu}$ 09'08	
conjunction	-3300 Oct 11 j 05:27	23° $\mathring{\mu}$ 09'18	2°08'31	conjunction	-3292 Oct 28 j 06:14	10° $\mathring{\mu}$ 37'33	1°56'33
minimum elong	-3300 Oct 11 j 05:28	23° $\mathring{\mu}$ 09'18	2°08'32	minimum elong	-3292 Oct 28 j 06:14	10° $\mathring{\mu}$ 37'33	1°56'32
max. Earth dist.	-3300 Oct 10 j 20:53	23° $\mathring{\mu}$ 08'30	31.27740 AU	max. Earth dist.	-3292 Oct 28 j 02:53	10° $\mathring{\mu}$ 37'14	31.24526 AU
retrograde	-3299 Jan 22 j 00:06	25° $\mathring{\mu}$ 37'17		retrograde	-3291 Feb 08 j 18:47	13° $\mathring{\mu}$ 06'33	
opposition	-3299 Apr 11 j 12:37	24° $\mathring{\mu}$ 14'50	2°16'51	opposition	-3291 Apr 29 j 20:13	11° $\mathring{\mu}$ 43'36	2°03'20
min. Earth dist.	-3299 Apr 11 j 21:21	24° $\mathring{\mu}$ 14'15	29.27847 AU	min. Earth dist.	-3291 Apr 29 j 22:08	11° $\mathring{\mu}$ 43'28	29.24270 AU
direct	-3299 Jul 01 j 09:58	22° $\mathring{\mu}$ 50'58		direct	-3291 Jul 19 j 07:42	10° $\mathring{\mu}$ 20'05	
conjunction	-3299 Oct 13 j 14:21	25° $\mathring{\mu}$ 20'03	2°07'39	conjunction	-3291 Oct 30 j 15:15	12° $\mathring{\mu}$ 48'23	1°54'17
minimum elong	-3299 Oct 13 j 14:21	25° $\mathring{\mu}$ 20'03	2°07'40	minimum elong	-3291 Oct 30 j 15:15	12° $\mathring{\mu}$ 48'23	1°54'16
max. Earth dist.	-3299 Oct 13 j 05:53	25° $\mathring{\mu}$ 19'15	31.27652 AU	max. Earth dist.	-3291 Oct 30 j 13:56	12° $\mathring{\mu}$ 48'15	31.23777 AU
retrograde	-3298 Jan 24 j 12:55	27° $\mathring{\mu}$ 48'11		retrograde	-3290 Feb 11 j 04:50	15° $\mathring{\mu}$ 17'30	
opposition	-3298 Apr 14 j 01:19	26° $\mathring{\mu}$ 25'43	2°15'50	opposition	-3290 May 02 j 09:17	13° $\mathring{\mu}$ 54'28	2°00'49
min. Earth dist.	-3298 Apr 14 j 08:15	26° $\mathring{\mu}$ 25'15	29.27746 AU	min. Earth dist.	-3290 May 02 j 10:38	13° $\mathring{\mu}$ 54'22	29.23545 AU
direct	-3298 Jul 03 j 20:08	25° $\mathring{\mu}$ 01'56		direct	-3290 Jul 21 j 19:01	12° $\mathring{\mu}$ 30'58	
conjunction	-3298 Oct 15 j 23:28	27° $\mathring{\mu}$ 30'58	2°06'36	conjunction	-3290 Nov 02 j 00:13	14° $\mathring{\mu}$ 59'09	1°51'51
minimum elong	-3298 Oct 15 j 23:29	27° $\mathring{\mu}$ 30'58	2°06'36	minimum elong	-3290 Nov 02 j 00:14	14° $\mathring{\mu}$ 59'09	1°51'49
max. Earth dist.	-3298 Oct 15 j 16:21	27° $\mathring{\mu}$ 30'18	31.27528 AU	max. Earth dist.	-3290 Nov 01 j 23:21	14° $\mathring{\mu}$ 59'04	31.23106 AU
retrograde	-3297 Jan 27 j 00:01	29° $\mathring{\mu}$ 59'15		retrograde	-3289 Feb 13 j 17:26	17° $\mathring{\mu}$ 28'25	
opposition	-3297 Apr 16 j 14:20	28° $\mathring{\mu}$ 36'46	2°14'37	opposition	-3289 May 04 j 22:14	16° $\mathring{\mu}$ 05'18	1°58'08

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Attention, astronomical year style is used: The year -3289 in astronomical counting style is the year 3290 BCE in historical counting style.

min. Earth dist.	-3289 May 04 j 21:24	16° $\underline{\text{A}}$ 05'21	29.22916 AU	min. Earth dist.	-3281 May 23 j 00:37	3° M 37'42	29.18063 AU
direct	-3289 Jul 24 j 05:01	14° $\underline{\text{A}}$ 41'50		direct	-3281 Aug 11 j 00:29	2° M 14'18	
conjunction	-3289 Nov 04 j 09:15	17° $\underline{\text{A}}$ 09'57	1°49'15	conjunction	-3281 Nov 21 j 11:48	4° M 41'59	1°23'02
minimum elong	-3289 Nov 04 j 09:15	17° $\underline{\text{A}}$ 09'57	1°49'14	minimum elong	-3281 Nov 21 j 11:48	4° M 41'59	1°22'58
max. Earth dist.	-3289 Nov 04 j 09:54	17° $\underline{\text{A}}$ 10'01	31.22520 AU	max. Earth dist.	-3281 Nov 21 j 18:39	4° M 42'38	31.17491 AU
retrograde	-3288 Feb 16 j 04:52	19° $\underline{\text{A}}$ 39'23		retrograde	-3280 Mar 05 j 04:18	7° M 12'47	
opposition	-3288 May 06 j 11:19	18° $\underline{\text{A}}$ 16'12	1°55'16	opposition	-3280 May 24 j 20:26	5° M 49'12	1°26'38
min. Earth dist.	-3288 May 06 j 10:22	18° $\underline{\text{A}}$ 16'16	29.22370 AU	min. Earth dist.	-3280 May 24 j 12:09	5° M 49'45	29.17017 AU
direct	-3288 Jul 25 j 16:02	16° $\underline{\text{A}}$ 52'49		direct	-3280 Aug 12 j 10:35	4° M 26'14	
conjunction	-3288 Nov 05 j 18:20	19° $\underline{\text{A}}$ 20'51	1°46'30	conjunction	-3280 Nov 22 j 21:18	6° M 53'51	1°19'09
minimum elong	-3288 Nov 05 j 18:21	19° $\underline{\text{A}}$ 20'51	1°46'27	minimum elong	-3280 Nov 22 j 21:19	6° M 53'51	1°19'04
max. Earth dist.	-3288 Nov 05 j 20:08	19° $\underline{\text{A}}$ 21'01	31.22023 AU	max. Earth dist.	-3280 Nov 23 j 05:09	6° M 54'35	31.16402 AU
retrograde	-3287 Feb 17 j 17:47	21° $\underline{\text{A}}$ 50'26		retrograde	-3279 Mar 07 j 15:45	9° M 24'46	
opposition	-3287 May 09 j 00:07	20° $\underline{\text{A}}$ 27'13	1°52'14	opposition	-3279 May 27 j 09:34	8° M 01'04	1°22'26
min. Earth dist.	-3287 May 08 j 21:07	20° $\underline{\text{A}}$ 27'26	29.21889 AU	min. Earth dist.	-3279 May 27 j 01:30	8° M 01'37	29.15907 AU
direct	-3287 Jul 28 j 04:19	19° $\underline{\text{A}}$ 03'55		direct	-3279 Aug 14 j 21:53	6° M 38'06	
conjunction	-3287 Nov 08 j 03:26	21° $\underline{\text{A}}$ 31'55	1°43'35	conjunction	-3279 Nov 25 j 06:49	9° M 05'37	1°15'10
minimum elong	-3287 Nov 08 j 03:27	21° $\underline{\text{A}}$ 31'55	1°43'33	minimum elong	-3279 Nov 25 j 06:50	9° M 05'37	1°15'06
max. Earth dist.	-3287 Nov 08 j 05:54	21° $\underline{\text{A}}$ 32'09	31.21565 AU	max. Earth dist.	-3279 Nov 25 j 15:51	9° M 06'28	31.15306 AU
retrograde	-3286 Feb 20 j 06:38	24° $\underline{\text{A}}$ 01'41		retrograde	-3278 Mar 10 j 05:00	11° M 36'39	
opposition	-3286 May 11 j 13:20	22° $\underline{\text{A}}$ 38'27	1°49'02	opposition	-3278 May 29 j 22:38	10° M 12'51	1°18'07
min. Earth dist.	-3286 May 11 j 10:16	22° $\underline{\text{A}}$ 38'39	29.21442 AU	min. Earth dist.	-3278 May 29 j 12:32	10° M 13'32	29.14817 AU
direct	-3286 Jul 30 j 14:56	21° $\underline{\text{A}}$ 15'13		direct	-3278 Aug 17 j 09:56	8° M 49'52	
conjunction	-3286 Nov 10 j 12:37	23° $\underline{\text{A}}$ 43'11	1°40'30	conjunction	-3278 Nov 27 j 16:12	11° M 17'19	1°11'04
minimum elong	-3286 Nov 10 j 12:37	23° $\underline{\text{A}}$ 43'11	1°40'27	minimum elong	-3278 Nov 27 j 16:13	11° M 17'19	1°10'59
max. Earth dist.	-3286 Nov 10 j 16:46	23° $\underline{\text{A}}$ 43'35	31.21123 AU	max. Earth dist.	-3278 Nov 28 j 01:49	11° M 18'14	31.14245 AU
retrograde	-3285 Feb 22 j 17:30	26° $\underline{\text{A}}$ 13'09		retrograde	-3277 Mar 12 j 17:45	13° M 48'30	
opposition	-3285 May 14 j 02:27	24° $\underline{\text{A}}$ 49'53	1°45'40	opposition	-3277 Jun 01 j 11:50	12° M 24'34	1°13'41
min. Earth dist.	-3285 May 13 j 21:44	24° $\underline{\text{A}}$ 50'12	29.20970 AU	min. Earth dist.	-3277 Jun 01 j 01:36	12° M 25'16	29.13802 AU
direct	-3285 Aug 02 j 03:32	23° $\underline{\text{A}}$ 26'44		direct	-3277 Aug 19 j 20:05	11° M 01'35	
conjunction	-3285 Nov 12 j 21:51	25° $\underline{\text{A}}$ 54'40	1°37'17	conjunction	-3277 Nov 30 j 01:53	13° M 28'59	1°06'52
minimum elong	-3285 Nov 12 j 21:52	25° $\underline{\text{A}}$ 54'40	1°37'15	minimum elong	-3277 Nov 30 j 01:54	13° M 28'59	1°06'48
max. Earth dist.	-3285 Nov 13 j 01:51	25° $\underline{\text{A}}$ 55'03	31.20630 AU	max. Earth dist.	-3277 Nov 30 j 13:20	13° M 30'04	31.13281 AU
retrograde	-3284 Feb 25 j 05:54	28° $\underline{\text{A}}$ 24'48		retrograde	-3276 Jan 11 j 23:40	15° M	
opposition	-3284 May 15 j 15:32	27° $\underline{\text{A}}$ 01'31	1°42'09	retrograde	-3276 Mar 14 j 05:13	16° M 00'17	
min. Earth dist.	-3284 May 15 j 10:31	27° $\underline{\text{A}}$ 01'51	29.20442 AU		-3276 May 19 j 06:17	15° R M	
direct	-3284 Aug 03 j 14:21	25° $\underline{\text{A}}$ 38'27		opposition	-3276 Jun 03 j 00:38	14° M 36'18	1°09'08
conjunction	-3284 Nov 14 j 07:23	28° $\underline{\text{A}}$ 06'21	1°33'55	min. Earth dist.	-3276 Jun 02 j 12:35	14° M 37'07	29.12877 AU
minimum elong	-3284 Nov 14 j 07:23	28° $\underline{\text{A}}$ 06'21	1°33'52	direct	-3276 Aug 21 j 08:56	13° M 13'20	
max. Earth dist.	-3284 Nov 14 j 13:05	28° $\underline{\text{A}}$ 06'53	31.20048 AU		-3276 Nov 13 j 09:04	15° M	
retrograde	-3283 Jan 09 j 23:12	0° M		conjunction	-3276 Dec 01 j 11:25	15° M 40'41	1°02'34
	-3283 Feb 26 j 16:49	0° M 36'40		minimum elong	-3276 Dec 01 j 11:26	15° M 40'41	1°02'29
	-3283 Apr 17 j 14:44	30° R $\underline{\text{A}}$		max. Earth dist.	-3276 Dec 01 j 22:53	15° M 41'46	31.12412 AU
opposition	-3283 May 18 j 04:44	29° $\underline{\text{A}}$ 13'20	1°38'29	retrograde	-3275 Mar 16 j 18:51	18° M 12'08	
min. Earth dist.	-3283 May 17 j 23:03	29° $\underline{\text{A}}$ 13'43	29.19787 AU	opposition	-3275 Jun 05 j 13:42	16° M 48'05	1°04'29
direct	-3283 Aug 06 j 02:48	27° $\underline{\text{A}}$ 50'20		min. Earth dist.	-3275 Jun 05 j 01:02	16° M 48'56	29.12058 AU
	-3283 Nov 08 j 16:48	0° M		direct	-3275 Aug 23 j 20:06	15° M 25'09	
conjunction	-3283 Nov 16 j 16:41	0° M 18'10	1°30'25	conjunction	-3275 Dec 03 j 21:03	17° M 52'28	0°58'10
minimum elong	-3283 Nov 16 j 16:42	0° M 18'10	1°30'22	minimum elong	-3275 Dec 03 j 21:04	17° M 52'28	0°58'06
max. Earth dist.	-3283 Nov 16 j 22:04	0° M 18'40	31.19335 AU	max. Earth dist.	-3275 Dec 04 j 10:40	17° M 53'46	31.11634 AU
retrograde	-3282 Mar 01 j 05:07	2° M 48'40		retrograde	-3274 Mar 19 j 06:04	20° M 24'05	
opposition	-3282 May 20 j 18:01	1° M 25'16	1°34'40	opposition	-3274 Jun 08 j 02:47	18° M 59'59	0°59'44
min. Earth dist.	-3282 May 20 j 11:22	1° M 25'43	29.19000 AU	min. Earth dist.	-3274 Jun 07 j 13:02	19° M 00'55	29.11304 AU
direct	-3282 Aug 08 j 13:17	0° M 02'18		direct	-3274 Aug 26 j 08:36	17° M 37'06	
conjunction	-3282 Nov 19 j 02:19	2° M 30'04	1°26'47	conjunction	-3274 Dec 06 j 06:46	20° M 04'23	0°53'41
minimum elong	-3282 Nov 19 j 02:19	2° M 30'04	1°26'43	minimum elong	-3274 Dec 06 j 06:46	20° M 04'23	0°53'36
max. Earth dist.	-3282 Nov 19 j 09:08	2° M 30'43	31.18474 AU	max. Earth dist.	-3274 Dec 06 j 20:22	20° M 05'40	31.10919 AU
retrograde	-3281 Mar 03 j 15:29	5° M 00'44		retrograde	-3273 Mar 21 j 18:44	22° M 36'11	
opposition	-3281 May 23 j 07:19	3° M 37'15	1°30'43	opposition	-3273 Jun 10 j 15:47	21° M 12'01	0°54'53

Attention, astronomical year style is used: The year -3273 in astronomical counting style is the year 3274 BCE in historical counting style.

min. Earth dist.	-3273 Jun 10 j 00:59	21° \mathbb{L} 13'02	29.10606 AU	retrograde	-3265 Apr 08 j 23:41	10° \mathbb{A} 16'51	
direct	-3273 Aug 28 j 18:49	19° \mathbb{L} 49'11		opposition	-3265 Jun 28 j 23:32	8° \mathbb{A} 52'09	0°13'46
				min. Earth dist.	-3265 Jun 28 j 04:29	8° \mathbb{A} 53'27	29.02828 AU
conjunction	-3273 Dec 08 j 16:42	22° \mathbb{L} 16'28	0°49'07	direct	-3265 Sep 15 j 13:11	7° \mathbb{A} 29'19	
minimum elong	-3273 Dec 08 j 16:42	22° \mathbb{L} 16'28	0°49'01				
max. Earth dist.	-3273 Dec 09 j 07:52	22° \mathbb{L} 17'54	31.10217 AU	conjunction	-3265 Dec 26 j 03:05	9° \mathbb{A} 56'29	0°10'30
retrograde	-3272 Mar 23 j 05:25	24° \mathbb{L} 48'26		minimum elong	-3265 Dec 26 j 03:05	9° \mathbb{A} 56'29	0°10'24
opposition	-3272 Jun 12 j 04:51	23° \mathbb{L} 24'14	0°49'57	behind sun begin	-3265 Dec 25 j 21:59	9° \mathbb{A} 56'01	
min. Earth dist.	-3272 Jun 11 j 13:59	23° \mathbb{L} 25'15	29.09889 AU	behind sun end	-3265 Dec 26 j 08:10	9° \mathbb{A} 56'57	
direct	-3272 Aug 30 j 06:10	22° \mathbb{L} 01'27		max. Earth dist.	-3265 Dec 26 j 22:23	9° \mathbb{A} 58'18	31.02311 AU
				retrograde	-3264 Apr 10 j 12:49	12° \mathbb{A} 29'32	
conjunction	-3272 Dec 10 j 02:40	24° \mathbb{L} 28'43	0°44'28	opposition	-3264 Jun 30 j 12:17	11° \mathbb{A} 04'45	0°08'27
minimum elong	-3272 Dec 10 j 02:40	24° \mathbb{L} 28'43	0°44'21	min. Earth dist.	-3264 Jun 29 j 16:15	11° \mathbb{A} 06'08	29.01862 AU
max. Earth dist.	-3272 Dec 10 j 17:58	24° \mathbb{L} 30'10	31.09489 AU	direct	-3264 Sep 16 j 23:49	9° \mathbb{A} 41'55	
retrograde	-3271 Mar 25 j 18:56	27° \mathbb{L} 00'51					
opposition	-3271 Jun 14 j 17:49	25° \mathbb{L} 36'37	0°44'57	conjunction	-3264 Dec 27 j 13:36	12° \mathbb{A} 09'06	0°05'33
min. Earth dist.	-3271 Jun 14 j 01:30	25° \mathbb{L} 37'43	29.09124 AU	minimum elong	-3264 Dec 27 j 13:36	12° \mathbb{A} 09'06	0°05'26
direct	-3271 Sep 01 j 16:26	24° \mathbb{L} 13'51		behind sun begin	-3264 Dec 27 j 07:23	12° \mathbb{A} 08'32	
				behind sun end	-3264 Dec 27 j 19:49	12° \mathbb{A} 09'39	
conjunction	-3271 Dec 12 j 12:51	26° \mathbb{L} 41'07	0°39'45	max. Earth dist.	-3264 Dec 28 j 10:29	12° \mathbb{A} 11'04	31.01390 AU
minimum elong	-3271 Dec 12 j 12:51	26° \mathbb{L} 41'07	0°39'39	retrograde	-3263 Apr 12 j 23:51	14° \mathbb{A} 42'16	
max. Earth dist.	-3271 Dec 13 j 04:48	26° \mathbb{L} 42'38	31.08676 AU	min. Earth dist.	-3263 Jul 02 j 04:43	13° \mathbb{A} 18'51	29.01004 AU
retrograde	-3270 Mar 28 j 06:41	29° \mathbb{L} 13'25		opposition	-3263 Jul 03 j 01:01	13° \mathbb{A} 17'27	0°03'07
opposition	-3270 Jun 17 j 07:01	27° \mathbb{L} 49'08	0°39'52	direct	-3263 Sep 19 j 11:28	11° \mathbb{A} 54'38	
min. Earth dist.	-3270 Jun 16 j 15:13	27° \mathbb{L} 50'13	29.08265 AU				
direct	-3270 Sep 04 j 03:02	26° \mathbb{L} 26'24		conjunction	-3263 Dec 30 j 00:15	14° \mathbb{A} 21'50	0°00'30
				minimum elong	-3263 Dec 30 j 00:14	14° \mathbb{A} 21'50	0°00'24
conjunction	-3270 Dec 14 j 23:08	28° \mathbb{L} 53'39	0°34'58	behind sun begin	-3263 Dec 29 j 17:50	14° \mathbb{A} 21'15	
minimum elong	-3270 Dec 14 j 23:08	28° \mathbb{L} 53'39	0°34'52	behind sun end	-3263 Dec 30 j 06:38	14° \mathbb{A} 22'24	
max. Earth dist.	-3270 Dec 15 j 15:50	28° \mathbb{L} 55'14	31.07769 AU	max. Earth dist.	-3263 Dec 30 j 21:27	14° \mathbb{A} 23'50	31.00607 AU
	-3269 Jan 14 j 02:43	0° \mathbb{A}		desc. node	-3262 Feb 03 j 12:05	15° \mathbb{A} 38'52	
retrograde	-3269 Mar 30 j 20:10	1° \mathbb{A} 26'05		retrograde	-3262 Apr 15 j 13:52	16° \mathbb{A} 55'09	
opposition	-3269 Jun 19 j 20:02	0° \mathbb{A} 01'45	0°34'44	opposition	-3262 Jul 05 j 13:41	15° \mathbb{A} 30'18	0°-2'-12
min. Earth dist.	-3269 Jun 19 j 02:48	0° \mathbb{A} 02'55	29.07288 AU	min. Earth dist.	-3262 Jul 04 j 15:48	15° \mathbb{A} 31'48	29.00278 AU
	-3269 Jun 20 j 21:36	30° \mathbb{R} \mathbb{L}		direct	-3262 Sep 21 j 21:53	14° \mathbb{A} 07'30	
direct	-3269 Sep 06 j 14:32	28° \mathbb{L} 39'00					
	-3269 Nov 17 j 05:34	0° \mathbb{A}		conjunction	-3261 Jan 01 j 10:57	16° \mathbb{A} 34'43	0°-4'-34
conjunction	-3269 Dec 17 j 09:31	1° \mathbb{A} 06'14	0°30'08	minimum elong	-3261 Jan 01 j 10:57	16° \mathbb{A} 34'43	0°04'42
minimum elong	-3269 Dec 17 j 09:31	1° \mathbb{A} 06'14	0°30'03	behind sun begin	-3261 Jan 01 j 04:39	16° \mathbb{A} 34'09	
max. Earth dist.	-3269 Dec 18 j 02:00	1° \mathbb{A} 07'48	31.06732 AU	behind sun end	-3261 Jan 01 j 17:15	16° \mathbb{A} 35'18	
retrograde	-3268 Apr 01 j 09:11	3° \mathbb{A} 38'49		max. Earth dist.	-3261 Jan 02 j 08:59	16° \mathbb{A} 36'48	30.99921 AU
opposition	-3268 Jun 21 j 08:59	2° \mathbb{A} 14'23	0°29'33	retrograde	-3261 Apr 18 j 00:54	19° \mathbb{A} 08'12	
min. Earth dist.	-3268 Jun 20 j 16:22	2° \mathbb{A} 15'31	29.06204 AU	min. Earth dist.	-3261 Jul 07 j 05:00	17° \mathbb{A} 44'49	28.99635 AU
direct	-3268 Sep 08 j 00:20	0° \mathbb{A} 51'37		opposition	-3261 Jul 08 j 02:29	17° \mathbb{A} 43'20	0°-7'-33
				direct	-3261 Sep 24 j 08:04	16° \mathbb{A} 20'34	
conjunction	-3268 Dec 18 j 19:57	3° \mathbb{A} 18'50	0°25'16	conjunction	-3260 Jan 03 j 21:57	18° \mathbb{A} 47'50	0°-9'-33
minimum elong	-3268 Dec 18 j 19:58	3° \mathbb{A} 18'50	0°25'10	minimum elong	-3260 Jan 03 j 21:57	18° \mathbb{A} 47'50	0°09'40
max. Earth dist.	-3268 Dec 19 j 13:48	3° \mathbb{A} 20'31	31.05613 AU	behind sun begin	-3260 Jan 03 j 16:37	18° \mathbb{A} 47'21	
retrograde	-3267 Apr 03 j 21:44	5° \mathbb{A} 51'31		behind sun end	-3260 Jan 04 j 03:17	18° \mathbb{A} 48'19	
opposition	-3267 Jun 23 j 21:51	4° \mathbb{A} 27'00	0°24'19	max. Earth dist.	-3260 Jan 04 j 20:54	18° \mathbb{A} 50'00	30.99314 AU
min. Earth dist.	-3267 Jun 23 j 03:53	4° \mathbb{A} 28'13	29.05050 AU	retrograde	-3260 Apr 19 j 14:04	21° \mathbb{A} 21'26	
direct	-3267 Sep 10 j 13:21	3° \mathbb{A} 04'13		opposition	-3260 Jul 09 j 14:57	19° \mathbb{A} 56'34	0°-12'-53
				min. Earth dist.	-3260 Jul 08 j 16:05	19° \mathbb{A} 58'09	28.99042 AU
conjunction	-3267 Dec 21 j 06:08	5° \mathbb{A} 31'24	0°20'22	direct	-3260 Sep 25 j 18:31	18° \mathbb{A} 33'50	
minimum elong	-3267 Dec 21 j 06:07	5° \mathbb{A} 31'24	0°20'17				
max. Earth dist.	-3267 Dec 21 j 23:39	5° \mathbb{A} 33'03	31.04458 AU	conjunction	-3259 Jan 05 j 08:58	21° \mathbb{A} 01'09	0°-14'-31
retrograde	-3266 Apr 06 j 12:11	8° \mathbb{A} 04'12		minimum elong	-3259 Jan 05 j 08:58	21° \mathbb{A} 01'09	0°14'39
opposition	-3266 Jun 26 j 10:50	6° \mathbb{A} 39'35	0°19'04	behind sun begin	-3259 Jan 05 j 06:11	21° \mathbb{A} 00'54	
min. Earth dist.	-3266 Jun 25 j 16:39	6° \mathbb{A} 40'49	29.03911 AU	behind sun end	-3259 Jan 05 j 11:45	21° \mathbb{A} 01'24	
direct	-3266 Sep 13 j 00:41	5° \mathbb{A} 16'46		max. Earth dist.	-3259 Jan 06 j 07:43	21° \mathbb{A} 03'18	30.98720 AU
				retrograde	-3259 Apr 22 j 03:26	23° \mathbb{A} 34'55	
conjunction	-3266 Dec 23 j 16:39	7° \mathbb{A} 43'56	0°15'27	min. Earth dist.	-3259 Jul 11 j 05:36	22° \mathbb{A} 11'33	28.98450 AU
minimum elong	-3266 Dec 23 j 16:39	7° \mathbb{A} 43'56	0°15'20	opposition	-3259 Jul 12 j 03:46	22° \mathbb{A} 10'01	0°-18'-13
behind sun begin	-3266 Dec 23 j 14:32	7° \mathbb{A} 43'45		direct	-3259 Sep 28 j 03:19	20° \mathbb{A} 47'18	
behind sun end	-3266 Dec 23 j 18:46	7° \mathbb{A} 44'08					
max. Earth dist.	-3266 Dec 24 j 12:04	7° \mathbb{A} 45'46	31.03338 AU	conjunction	-3258 Jan 07 j 20:11	23° \mathbb{A} 14'40	0°-19'-29

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Attention, astronomical year style is used: The year -3258 in astronomical counting style is the year 3259 BCE in historical counting style.

minimum elong	-3258 Jan 07 j 20:11	23° \overline{A} 14'40	0°19'36	conjunction	-3250 Jan 25 j 17:30	11° \overline{B} 04'04	0°-57'-38
max. Earth dist.	-3258 Jan 08 j 20:09	23° \overline{A} 16'56	30.98106 AU	minimum elong	-3250 Jan 25 j 17:29	11° \overline{B} 04'04	0°57'45
retrograde	-3258 Apr 24 j 16:58	25° \overline{A} 48'34		max. Earth dist.	-3250 Jan 26 j 18:29	11° \overline{B} 06'25	30.91273 AU
opposition	-3258 Jul 14 j 16:27	24° \overline{A} 23'39	0°-23'-31	retrograde	-3250 May 13 j 01:38	13° \overline{B} 38'32	
min. Earth dist.	-3258 Jul 13 j 17:19	24° \overline{A} 25'15	28.97799 AU	opposition	-3250 Aug 01 j 20:02	12° \overline{B} 13'11	-1°-4'-4
direct	-3258 Sep 30 j 16:11	23° \overline{A} 00'57		min. Earth dist.	-3250 Jul 31 j 20:17	12° \overline{B} 14'50	28.91036 AU
				direct	-3250 Oct 18 j 09:32	10° \overline{B} 50'08	
conjunction	-3257 Jan 10 j 07:35	25° \overline{A} 28'21	0°-24'-26				
minimum elong	-3257 Jan 10 j 07:34	25° \overline{A} 28'21	0°24'33	conjunction	-3249 Jan 28 j 05:41	13° \overline{B} 17'50	-1°-2'-5
max. Earth dist.	-3257 Jan 11 j 06:34	25° \overline{A} 30'31	30.97409 AU	minimum elong	-3249 Jan 28 j 05:41	13° \overline{B} 17'50	1°02'13
retrograde	-3257 Apr 27 j 08:12	28° \overline{A} 02'21		max. Earth dist.	-3249 Jan 29 j 07:52	13° \overline{B} 20'18	30.90696 AU
min. Earth dist.	-3257 Jul 16 j 06:28	26° \overline{A} 38'58	28.97059 AU	retrograde	-3249 May 15 j 14:40	15° \overline{B} 52'22	
opposition	-3257 Jul 17 j 05:07	26° \overline{A} 37'24	0°-28'-47	min. Earth dist.	-3249 Aug 03 j 07:19	14° \overline{B} 28'44	28.90512 AU
direct	-3257 Oct 03 j 02:51	25° \overline{A} 14'40		opposition	-3249 Aug 04 j 08:02	14° \overline{B} 27'01	-1°-8'-47
				direct	-3249 Oct 20 j 21:44	13° \overline{B} 03'59	
conjunction	-3256 Jan 12 j 19:15	27° \overline{A} 42'08	0°-29'-20				
minimum elong	-3256 Jan 12 j 19:15	27° \overline{A} 42'08	0°29'27	conjunction	-3248 Jan 30 j 17:49	15° \overline{B} 31'46	-1°-6'-28
max. Earth dist.	-3256 Jan 13 j 19:20	27° \overline{A} 44'24	30.96602 AU	minimum elong	-3248 Jan 30 j 17:48	15° \overline{B} 31'46	1°06'35
	-3256 Mar 28 j 02:52	0° \overline{B}		max. Earth dist.	-3248 Jan 31 j 19:06	15° \overline{B} 34'09	30.90216 AU
retrograde	-3256 Apr 28 j 20:21	0° \overline{B} 16'12		retrograde	-3248 May 17 j 05:25	18° \overline{B} 06'24	
	-3256 May 31 j 04:23	30° \overline{R} \overline{A}		opposition	-3248 Aug 05 j 20:17	16° \overline{B} 41'04	-1°-13'-25
opposition	-3256 Jul 18 j 17:45	28° \overline{A} 51'12	0°-34'-1	min. Earth dist.	-3248 Aug 04 j 19:59	16° \overline{B} 42'45	28.90080 AU
min. Earth dist.	-3256 Jul 17 j 18:55	28° \overline{A} 52'47	28.96191 AU	direct	-3248 Oct 22 j 07:37	15° \overline{B} 18'02	
direct	-3256 Oct 04 j 15:16	27° \overline{A} 28'26					
conjunction	-3255 Jan 14 j 06:42	29° \overline{A} 55'54	0°-34'-12	conjunction	-3247 Feb 01 j 06:06	17° \overline{B} 45'56	-1°-10'-44
minimum elong	-3255 Jan 14 j 06:42	29° \overline{A} 55'54	0°34'20	minimum elong	-3247 Feb 01 j 06:05	17° \overline{B} 45'56	1°10'52
max. Earth dist.	-3255 Jan 15 j 05:58	29° \overline{A} 58'06	30.95690 AU	max. Earth dist.	-3247 Feb 02 j 08:38	17° \overline{B} 48'26	30.89799 AU
	-3255 Jan 16 j 02:02	0° \overline{B}		retrograde	-3247 May 19 j 18:09	20° \overline{B} 20'40	
retrograde	-3255 May 01 j 10:53	2° \overline{B} 30'03		min. Earth dist.	-3247 Aug 07 j 07:59	18° \overline{B} 57'03	28.89676 AU
min. Earth dist.	-3255 Jul 20 j 07:18	1° \overline{B} 06'34	28.95244 AU	opposition	-3247 Aug 08 j 08:27	18° \overline{B} 55'21	-1°-17'-56
opposition	-3255 Jul 21 j 06:22	1° \overline{B} 04'58	0°-39'-12	direct	-3247 Oct 24 j 19:15	17° \overline{B} 32'20	
	-3255 Sep 04 j 04:28	30° \overline{R} \overline{A}					
direct	-3255 Oct 07 j 02:47	29° \overline{A} 42'09		conjunction	-3246 Feb 03 j 18:34	20° \overline{B} 00'20	-1°-14'-54
	-3255 Nov 08 j 07:06	0° \overline{B}		minimum elong	-3246 Feb 03 j 18:34	20° \overline{B} 00'20	1°15'01
conjunction	-3254 Jan 16 j 18:23	2° \overline{B} 09'38	0°-39'-1	max. Earth dist.	-3246 Feb 04 j 20:06	20° \overline{B} 02'44	30.89400 AU
minimum elong	-3254 Jan 16 j 18:23	2° \overline{B} 09'37	0°39'08	retrograde	-3246 May 22 j 09:56	22° \overline{B} 35'09	
max. Earth dist.	-3254 Jan 17 j 18:36	2° \overline{B} 11'55	30.94708 AU	opposition	-3246 Aug 10 j 20:35	21° \overline{B} 09'52	-1°-22'-20
retrograde	-3254 May 03 j 23:08	4° \overline{B} 43'50		min. Earth dist.	-3246 Aug 09 j 20:17	21° \overline{B} 11'33	28.89272 AU
opposition	-3254 Jul 23 j 18:53	3° \overline{B} 18'40	0°-44'-19	direct	-3246 Oct 27 j 06:29	19° \overline{B} 46'50	
min. Earth dist.	-3254 Jul 22 j 20:11	3° \overline{B} 20'14	28.94258 AU				
direct	-3254 Oct 09 j 15:25	1° \overline{B} 55'47		conjunction	-3245 Feb 06 j 07:22	22° \overline{B} 14'58	-1°-18'-58
conjunction	-3253 Jan 19 j 06:05	4° \overline{B} 23'16	0°-43'-46	minimum elong	-3245 Feb 06 j 07:22	22° \overline{B} 14'58	1°19'06
minimum elong	-3253 Jan 19 j 06:04	4° \overline{B} 23'16	0°43'55	max. Earth dist.	-3245 Feb 07 j 09:23	22° \overline{B} 17'25	30.88949 AU
max. Earth dist.	-3253 Jan 20 j 06:08	4° \overline{B} 25'32	30.93735 AU	retrograde	-3245 May 24 j 23:32	24° \overline{B} 49'51	
retrograde	-3253 May 06 j 12:59	6° \overline{B} 57'31		min. Earth dist.	-3245 Aug 12 j 09:22	23° \overline{B} 26'12	28.88783 AU
min. Earth dist.	-3253 Jul 25 j 07:29	5° \overline{B} 33'56	28.93307 AU	opposition	-3245 Aug 13 j 08:46	23° \overline{B} 24'34	-1°-26'-36
opposition	-3253 Jul 26 j 07:13	5° \overline{B} 32'17	0°-49'-22	direct	-3245 Oct 29 j 19:11	22° \overline{B} 01'32	
direct	-3253 Oct 12 j 02:57	4° \overline{B} 09'21					
conjunction	-3252 Jan 21 j 17:51	6° \overline{B} 36'51	0°-48'-28	conjunction	-3244 Feb 08 j 20:14	24° \overline{B} 29'44	-1°-22'-54
minimum elong	-3252 Jan 21 j 17:50	6° \overline{B} 36'51	0°48'35	minimum elong	-3244 Feb 08 j 20:13	24° \overline{B} 29'44	1°23'01
max. Earth dist.	-3252 Jan 22 j 18:16	6° \overline{B} 39'10	30.92800 AU	max. Earth dist.	-3244 Feb 09 j 21:17	24° \overline{B} 32'06	30.88409 AU
retrograde	-3252 May 07 j 23:47	9° \overline{B} 11'10		retrograde	-3244 May 26 j 14:01	27° \overline{B} 04'40	
opposition	-3252 Jul 27 j 19:28	7° \overline{B} 45'52	0°-54'-21	opposition	-3244 Aug 14 j 20:47	25° \overline{B} 39'23	-1°-30'-45
min. Earth dist.	-3252 Jul 26 j 20:24	7° \overline{B} 47'28	28.92428 AU	min. Earth dist.	-3244 Aug 13 j 21:02	25° \overline{B} 41'02	28.88192 AU
direct	-3252 Oct 13 j 13:34	6° \overline{B} 22'53		direct	-3244 Oct 31 j 07:04	24° \overline{B} 16'18	
conjunction	-3251 Jan 23 j 05:44	8° \overline{B} 50'26	0°-53'-5	conjunction	-3243 Feb 10 j 09:09	26° \overline{B} 44'35	-1°-26'-43
minimum elong	-3251 Jan 23 j 05:44	8° \overline{B} 50'26	0°53'13	minimum elong	-3243 Feb 10 j 09:09	26° \overline{B} 44'35	1°26'51
max. Earth dist.	-3251 Jan 24 j 06:56	8° \overline{B} 52'49	30.91979 AU	max. Earth dist.	-3243 Feb 11 j 09:51	26° \overline{B} 46'55	30.87753 AU
retrograde	-3251 May 10 j 12:56	11° \overline{B} 24'48		retrograde	-3243 May 29 j 01:57	29° \overline{B} 19'33	
min. Earth dist.	-3251 Jul 29 j 07:14	10° \overline{B} 01'10	28.91669 AU	min. Earth dist.	-3243 Aug 16 j 10:29	27° \overline{B} 55'48	28.87497 AU
opposition	-3251 Jul 30 j 07:41	9° \overline{B} 59'29	0°-59'-15	opposition	-3243 Aug 17 j 08:56	27° \overline{B} 54'13	-1°-34'-46
direct	-3251 Oct 16 j 00:31	8° \overline{B} 36'27		direct	-3243 Nov 02 j 18:16	26° \overline{B} 31'05	
				conjunction	-3242 Feb 12 j 22:06	28° \overline{B} 59'26	-1°-30'-24
				minimum elong	-3242 Feb 12 j 22:06	28° \overline{B} 59'26	1°30'31
				max. Earth dist.	-3242 Feb 13 j 22:47	29° \overline{B} 01'45	30.87026 AU

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Attention, astronomical year style is used: The year -3242 in astronomical counting style is the year 3243 BCE in historical counting style.

	-3242 Mar 12 j 10:18	0°				-3234 Jan 03 j 09:48	15°	
retrograde	-3242 May 31 j 16:11	1°34'23						
opposition	-3242 Aug 19 j 20:50	0°09'01	-1°-38'-38	conjunction	-3234 Mar 03 j 07:54	16°56'22	-1°-54'-30	
min. Earth dist.	-3242 Aug 18 j 21:46	0°10'38	28.86741 AU	minimum elong	-3234 Mar 03 j 07:53	16°56'22	1°54'36	
	-3242 Aug 25 j 05:54	30°R		max. Earth dist.	-3234 Mar 04 j 06:56	16°58'31	30.83477 AU	
direct	-3242 Nov 05 j 06:10	28°45'48		retrograde	-3234 Jun 19 j 00:04	19°31'13		
	-3241 Jan 12 j 04:08	0°		opposition	-3234 Sep 06 j 17:38	18°05'48	-2°-3'-43	
				min. Earth dist.	-3234 Sep 05 j 21:27	18°07'13	28.83608 AU	
conjunction	-3241 Feb 15 j 11:07	1°14'12	-1°-33'-57	direct	-3234 Nov 23 j 00:17	16°42'11		
minimum elong	-3241 Feb 15 j 11:07	1°14'11	1°34'04					
max. Earth dist.	-3241 Feb 16 j 10:55	1°16'26	30.86251 AU	conjunction	-3233 Mar 05 j 21:46	19°11'18	-1°-56'-47	
retrograde	-3241 Jun 03 j 03:43	3°49'08		minimum elong	-3233 Mar 05 j 21:46	19°11'18	1°56'52	
min. Earth dist.	-3241 Aug 21 j 10:55	2°25'14	28.85983 AU	max. Earth dist.	-3233 Mar 06 j 20:21	19°13'25	30.83448 AU	
opposition	-3241 Aug 22 j 08:39	2°23'42	-1°-42'-20	retrograde	-3233 Jun 21 j 15:03	21°46'08		
direct	-3241 Nov 07 j 15:55	1°00'24		min. Earth dist.	-3233 Sep 08 j 08:28	20°22'13	28.83563 AU	
				opposition	-3233 Sep 09 j 04:54	20°20'46	-2°-6'-3	
conjunction	-3240 Feb 18 j 00:16	3°28'51	-1°-37'-21	direct	-3233 Nov 25 j 12:29	18°57'07		
minimum elong	-3240 Feb 18 j 00:16	3°28'51	1°37'27					
max. Earth dist.	-3240 Feb 19 j 00:47	3°31'09	30.85510 AU	conjunction	-3232 Mar 07 j 11:40	21°26'23	-1°-58'-53	
retrograde	-3240 Jun 04 j 15:27	6°03'45		minimum elong	-3232 Mar 07 j 11:39	21°26'23	1°58'57	
opposition	-3240 Aug 23 j 20:19	4°38'18	-1°-45'-54	max. Earth dist.	-3232 Mar 08 j 08:57	21°28'23	30.83366 AU	
min. Earth dist.	-3240 Aug 22 j 21:55	4°39'52	28.85278 AU	retrograde	-3232 Jun 23 j 03:09	24°01'12		
direct	-3240 Nov 09 j 04:28	3°14'55		opposition	-3232 Sep 10 j 16:29	22°35'52	-2°-8'-11	
				min. Earth dist.	-3232 Sep 09 j 21:46	22°37'11	28.83456 AU	
conjunction	-3239 Feb 19 j 13:07	5°43'25	-1°-40'-37	direct	-3232 Nov 26 j 22:35	21°12'11		
minimum elong	-3239 Feb 19 j 13:07	5°43'25	1°40'44					
max. Earth dist.	-3239 Feb 20 j 12:30	5°45'37	30.84846 AU	conjunction	-3231 Mar 10 j 01:36	23°41'32	-2°00'-47	
retrograde	-3239 Jun 07 j 04:33	8°18'19		minimum elong	-3231 Mar 10 j 01:36	23°41'32	2°00'53	
min. Earth dist.	-3239 Aug 25 j 10:18	6°54'21	28.84686 AU	max. Earth dist.	-3231 Mar 10 j 22:54	23°43'32	30.83216 AU	
opposition	-3239 Aug 26 j 08:06	6°52'49	-1°-49'-18	retrograde	-3231 Jun 25 j 15:39	26°16'19		
direct	-3239 Nov 11 j 14:04	5°29'21		min. Earth dist.	-3231 Sep 12 j 09:08	24°52'20	28.83258 AU	
				opposition	-3231 Sep 13 j 03:53	24°51'00	-2°-10'-8	
conjunction	-3238 Feb 22 j 02:23	7°57'56	-1°-43'-43	direct	-3231 Nov 29 j 11:09	23°27'16		
minimum elong	-3238 Feb 22 j 02:22	7°57'56	1°43'48					
max. Earth dist.	-3238 Feb 23 j 02:49	8°00'13	30.84309 AU	conjunction	-3230 Mar 12 j 15:37	25°56'43	-2°-2'-31	
retrograde	-3238 Jun 09 j 16:48	10°32'48		minimum elong	-3230 Mar 12 j 15:37	25°56'43	2°02'35	
opposition	-3238 Aug 28 j 19:35	9°07'17	-1°-52'-32	max. Earth dist.	-3230 Mar 13 j 10:58	25°58'32	30.82979 AU	
min. Earth dist.	-3238 Aug 27 j 21:39	9°08'49	28.84220 AU	retrograde	-3230 Jun 28 j 04:40	28°31'26		
direct	-3238 Nov 14 j 01:39	7°43'45		opposition	-3230 Sep 15 j 15:13	27°06'08	-2°-11'-53	
				min. Earth dist.	-3230 Sep 14 j 21:48	27°07'22	28.82999 AU	
conjunction	-3237 Feb 24 j 15:35	10°12'25	-1°-46'-39	direct	-3230 Dec 01 j 20:50	25°42'19		
minimum elong	-3237 Feb 24 j 15:35	10°12'25	1°46'46					
max. Earth dist.	-3237 Feb 25 j 14:55	10°14'37	30.83917 AU	conjunction	-3229 Mar 15 j 05:50	28°11'51	-2°-4'-4	
retrograde	-3237 Jun 12 j 07:29	12°47'17		minimum elong	-3229 Mar 15 j 05:50	28°11'51	2°04'09	
min. Earth dist.	-3237 Aug 30 j 09:17	11°23'18	28.83908 AU	max. Earth dist.	-3229 Mar 16 j 01:30	28°13'42	30.82696 AU	
opposition	-3237 Aug 31 j 07:10	11°21'46	-1°-55'-36					
direct	-3237 Nov 16 j 13:03	9°58'11		retrograde	-3229 Jun 07 j 09:32	0°		
					-3229 Jun 30 j 16:25	0°46'29		
conjunction	-3236 Feb 27 j 04:57	12°26'57	-1°-49'-27	min. Earth dist.	-3229 Aug 25 j 08:46	30°R		
minimum elong	-3236 Feb 27 j 04:56	12°26'57	1°49'32	opposition	-3229 Sep 17 j 09:27	29°22'24	28.82702 AU	
max. Earth dist.	-3236 Feb 28 j 05:00	12°29'13	30.83657 AU	direct	-3229 Sep 18 j 02:26	29°21'11	-2°-13'-26	
	-3236 Jun 03 j 09:29	15°			-3229 Dec 04 j 08:46	27°57'18		
retrograde	-3236 Jun 13 j 20:05	15°01'48			-3228 Mar 04 j 19:10	0°		
	-3236 Jun 24 j 08:54	15°R		conjunction	-3228 Mar 16 j 19:45	0°26'55	-2°-5'-25	
opposition	-3236 Sep 01 j 18:39	13°36'18	-1°-58'-29	minimum elong	-3228 Mar 16 j 19:45	0°26'55	2°05'30	
min. Earth dist.	-3236 Aug 31 j 21:27	13°37'48	28.83715 AU	max. Earth dist.	-3228 Mar 17 j 13:43	0°28'36	30.82410 AU	
direct	-3236 Nov 18 j 01:19	12°12'43		retrograde	-3228 Jul 02 j 05:52	3°01'28		
				opposition	-3228 Sep 19 j 13:34	1°36'10	-2°-14'-47	
conjunction	-3235 Feb 28 j 18:20	14°41'35	-1°-52'-4	min. Earth dist.	-3228 Sep 18 j 21:05	1°37'20	28.82446 AU	
minimum elong	-3235 Feb 28 j 18:20	14°41'35	1°52'10	direct	-3228 Dec 05 j 20:24	0°12'11		
max. Earth dist.	-3235 Mar 01 j 17:35	14°43'46	30.83532 AU					
	-3235 Mar 08 j 22:45	15°		conjunction	-3227 Mar 19 j 09:52	2°41'53	-2°-6'-35	
retrograde	-3235 Jun 16 j 10:54	17°16'26		minimum elong	-3227 Mar 19 j 09:52	2°41'53	2°06'40	
min. Earth dist.	-3235 Sep 03 j 08:27	15°52'30	28.83641 AU	max. Earth dist.	-3227 Mar 20 j 04:15	2°43'36	30.82179 AU	
opposition	-3235 Sep 04 j 06:05	15°50'58	-2°-1'-11	retrograde	-3227 Jul 04 j 17:36	5°16'21		
	-3235 Oct 06 j 14:10	15°R		min. Earth dist.	-3227 Sep 21 j 09:07	3°52'09	28.82264 AU	
direct	-3235 Nov 20 j 12:55	14°27'21		opposition	-3227 Sep 22 j 00:37	3°51'03	-2°-15'-56	

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Attention, astronomical year style is used: The year -3227 in astronomical counting style is the year 3228 BCE in historical counting style.

direct	-3227 Dec 08 j 08:43	2°♃27'00		minimum elong	-3218 Apr 09 j 19:00	22°♃57'37	2°08'17
				max. Earth dist.	-3218 Apr 10 j 06:19	22°♃58'40	30.84629 AU
conjunction	-3226 Mar 21 j 23:54	4°♃56'48	-2°-7'-34	retrograde	-3218 Jul 25 j 13:09	25°♃31'15	
minimum elong	-3226 Mar 21 j 23:54	4°♃56'48	2°07'37	opposition	-3218 Oct 12 j 02:46	24°♃06'27	-2°-16'-44
max. Earth dist.	-3226 Mar 22 j 17:04	4°♃58'24	30.82062 AU	min. Earth dist.	-3218 Oct 11 j 17:55	24°♃07'05	28.84906 AU
retrograde	-3226 Jul 07 j 07:55	7°♃31'11		direct	-3218 Dec 28 j 17:19	22°♃42'06	
opposition	-3226 Sep 24 j 11:35	6°♃05'53	-2°-16'-52				
min. Earth dist.	-3226 Sep 23 j 19:49	6°♃07'00	28.82210 AU	conjunction	-3217 Apr 12 j 09:39	25°♃12'49	-2°-7'-27
direct	-3226 Dec 10 j 20:37	4°♃41'46		minimum elong	-3217 Apr 12 j 09:39	25°♃12'49	2°07'29
				max. Earth dist.	-3217 Apr 12 j 18:56	25°♃13'41	30.84863 AU
conjunction	-3225 Mar 24 j 14:05	7°♃11'40	-2°-8'-21	retrograde	-3217 Jul 28 j 02:30	27°♃46'19	
minimum elong	-3225 Mar 24 j 14:05	7°♃11'40	2°08'24	opposition	-3217 Oct 14 j 13:26	26°♃21'32	-2°-15'-46
max. Earth dist.	-3225 Mar 25 j 07:01	7°♃13'15	30.82063 AU	min. Earth dist.	-3217 Oct 14 j 04:52	26°♃22'09	28.85107 AU
retrograde	-3225 Jul 09 j 20:48	9°♃45'58		direct	-3217 Dec 31 j 05:33	24°♃57'06	
opposition	-3225 Sep 26 j 22:32	8°♃20'42	-2°-17'-35				
min. Earth dist.	-3225 Sep 26 j 08:05	8°♃21'44	28.82291 AU	conjunction	-3216 Apr 14 j 00:17	27°♃27'53	-2°-6'-28
direct	-3225 Dec 13 j 08:43	6°♃56'33		minimum elong	-3216 Apr 14 j 00:17	27°♃27'53	2°06'29
				max. Earth dist.	-3216 Apr 14 j 08:58	27°♃28'42	30.85043 AU
conjunction	-3224 Mar 26 j 04:15	9°♃26'33	-2°-8'-56		-3216 Jul 21 j 03:46	0°♃	
minimum elong	-3224 Mar 26 j 04:15	9°♃26'33	2°08'59	retrograde	-3216 Jul 29 j 14:13	0°♃01'13	
max. Earth dist.	-3224 Mar 26 j 20:44	9°♃28'06	30.82230 AU		-3216 Aug 07 j 02:45	30°♃	
retrograde	-3224 Jul 11 j 11:23	12°♃00'46		opposition	-3216 Oct 16 j 00:13	28°♃36'27	-2°-14'-37
opposition	-3224 Sep 28 j 09:25	10°♃35'33	-2°-18'-6	min. Earth dist.	-3216 Oct 15 j 17:24	28°♃36'56	28.85282 AU
min. Earth dist.	-3224 Sep 27 j 18:24	10°♃36'37	28.82528 AU	direct	-3215 Jan 01 j 18:17	27°♃11'57	
direct	-3224 Dec 14 j 21:41	9°♃11'23					
				conjunction	-3215 Apr 16 j 14:44	29°♃42'47	-2°-5'-17
conjunction	-3223 Mar 28 j 18:17	11°♃41'29	-2°-9'-19	minimum elong	-3215 Apr 16 j 14:45	29°♃42'47	2°05'18
minimum elong	-3223 Mar 28 j 18:17	11°♃41'29	2°09'22	max. Earth dist.	-3215 Apr 16 j 22:21	29°♃43'29	30.85237 AU
max. Earth dist.	-3223 Mar 29 j 09:54	11°♃42'57	30.82534 AU		-3215 Apr 24 j 07:45	0°♃	
retrograde	-3223 Jul 13 j 23:23	14°♃15'38		retrograde	-3215 Aug 01 j 03:39	2°♃15'57	
opposition	-3223 Sep 30 j 20:26	12°♃50'30	-2°-18'-24	opposition	-3215 Oct 18 j 10:46	0°♃51'12	-2°-13'-15
min. Earth dist.	-3223 Sep 30 j 06:57	12°♃51'27	28.82899 AU	min. Earth dist.	-3215 Oct 18 j 03:49	0°♃51'42	28.85483 AU
direct	-3223 Dec 17 j 08:08	11°♃26'19			-3215 Nov 19 j 14:47	30°♃	
				direct	-3214 Jan 04 j 08:05	29°♃26'36	
conjunction	-3222 Mar 31 j 08:42	13°♃56'32	-2°-9'-30		-3214 Feb 18 j 06:08	0°♃	
minimum elong	-3222 Mar 31 j 08:42	13°♃56'32	2°09'33	conjunction	-3214 Apr 19 j 05:18	1°♃57'31	-2°-3'-55
max. Earth dist.	-3222 Apr 01 j 00:23	13°♃58'00	30.82962 AU	minimum elong	-3214 Apr 19 j 05:19	1°♃57'31	2°03'55
retrograde	-3222 Jul 16 j 12:43	16°♃30'35		max. Earth dist.	-3214 Apr 19 j 11:47	1°♃58'07	30.85465 AU
opposition	-3222 Oct 03 j 07:10	15°♃05'32	-2°-18'-30	retrograde	-3214 Aug 03 j 15:31	4°♃30'31	
min. Earth dist.	-3222 Oct 02 j 17:40	15°♃06'30	28.83353 AU	opposition	-3214 Oct 20 j 21:20	3°♃05'48	-2°-11'-41
direct	-3222 Dec 19 j 20:33	13°♃41'21		min. Earth dist.	-3214 Oct 20 j 16:08	3°♃06'11	28.85755 AU
				direct	-3213 Jan 06 j 19:19	1°♃41'08	
conjunction	-3221 Apr 02 j 23:08	16°♃11'42	-2°-9'-29				
minimum elong	-3221 Apr 02 j 23:08	16°♃11'42	2°09'32	conjunction	-3213 Apr 21 j 19:54	4°♃12'07	-2°-2'-21
max. Earth dist.	-3221 Apr 03 j 12:55	16°♃12'59	30.83438 AU	minimum elong	-3213 Apr 21 j 19:55	4°♃12'07	2°02'22
retrograde	-3221 Jul 19 j 02:04	18°♃45'41		max. Earth dist.	-3213 Apr 22 j 02:12	4°♃12'42	30.85791 AU
opposition	-3221 Oct 05 j 18:07	17°♃20'43	-2°-18'-22	retrograde	-3213 Aug 06 j 04:38	6°♃44'57	
min. Earth dist.	-3221 Oct 05 j 06:02	17°♃21'34	28.83841 AU	opposition	-3213 Oct 23 j 07:50	5°♃20'18	-2°-9'-55
direct	-3221 Dec 22 j 06:05	15°♃56'30		min. Earth dist.	-3213 Oct 23 j 02:31	5°♃20'40	28.86128 AU
				direct	-3212 Jan 09 j 08:36	3°♃55'35	
conjunction	-3220 Apr 04 j 13:39	18°♃26'58	-2°-9'-16				
minimum elong	-3220 Apr 04 j 13:39	18°♃26'58	2°09'18	conjunction	-3212 Apr 23 j 10:09	6°♃26'38	-2°00'-36
max. Earth dist.	-3220 Apr 05 j 03:29	18°♃28'16	30.83906 AU	minimum elong	-3212 Apr 23 j 10:09	6°♃26'38	2°00'37
retrograde	-3220 Jul 20 j 13:07	21°♃00'52		max. Earth dist.	-3212 Apr 23 j 14:50	6°♃27'04	30.86230 AU
opposition	-3220 Oct 07 j 05:00	19°♃35'58	-2°-18'-2	retrograde	-3212 Aug 07 j 17:09	8°♃59'21	
min. Earth dist.	-3220 Oct 06 j 17:38	19°♃36'47	28.84276 AU	opposition	-3212 Oct 24 j 18:25	7°♃34'44	-2°-7'-57
direct	-3220 Dec 23 j 18:18	18°♃11'45		min. Earth dist.	-3212 Oct 24 j 14:11	7°♃35'02	28.86641 AU
				direct	-3211 Jan 10 j 18:53	6°♃10'00	
conjunction	-3219 Apr 07 j 04:13	20°♃42'18	-2°-8'-52				
minimum elong	-3219 Apr 07 j 04:14	20°♃42'18	2°08'54	conjunction	-3211 Apr 26 j 00:41	8°♃41'08	-1°-58'-41
max. Earth dist.	-3219 Apr 07 j 15:45	20°♃43'22	30.84314 AU	minimum elong	-3211 Apr 26 j 00:42	8°♃41'08	1°58'41
retrograde	-3219 Jul 23 j 01:48	23°♃16'05		max. Earth dist.	-3211 Apr 26 j 05:39	8°♃41'36	30.86814 AU
opposition	-3219 Oct 09 j 15:51	21°♃51'15	-2°-17'-29	retrograde	-3211 Aug 10 j 03:51	11°♃13'42	
min. Earth dist.	-3219 Oct 09 j 05:27	21°♃51'59	28.84644 AU	opposition	-3211 Oct 27 j 04:49	9°♃49'12	-2°-5'-47
direct	-3219 Dec 26 j 05:22	20°♃26'57		min. Earth dist.	-3211 Oct 27 j 01:01	9°♃49'28	28.87277 AU
				direct	-3210 Jan 13 j 07:16	8°♃24'27	
conjunction	-3218 Apr 09 j 19:00	22°♃57'37	-2°-8'-15				

Attention, astronomical year style is used: The year -3210 in astronomical counting style is the year 3211 BCE in historical counting style.

conjunction	-3210 Apr 28 j 15:07	10° Υ 55'41	-1°-56'-34			-3202 Jun 17 j 13:51	0° R	
minimum elong	-3210 Apr 28 j 15:07	10° Υ 55'41	1°56'34	retrograde		-3202 Aug 30 j 14:49	1° R 24'00	
max. Earth dist.	-3210 Apr 28 j 18:05	10° Υ 55'57	30.87520 AU	opposition		-3202 Nov 16 j 02:43	0° R 00'07	-1°-38'-16
retrograde	-3210 Aug 12 j 16:09	13° Υ 28'08		min. Earth dist.		-3202 Nov 16 j 07:49	29° Υ 59'45	28.92820 AU
opposition	-3210 Oct 29 j 15:17	12° Υ 03'44	-2°-3'-26			-3202 Nov 16 j 04:16	30° R Υ	
min. Earth dist.	-3210 Oct 29 j 12:09	12° Υ 03'57	28.88027 AU	direct		-3201 Feb 02 j 22:01	28° Υ 35'00	
direct	-3209 Jan 15 j 17:46	10° Υ 38'58				-3201 Apr 19 j 00:50	0° R	
conjunction	-3209 May 01 j 05:42	13° Υ 10'20	-1°-54'-17	conjunction		-3201 May 20 j 00:59	1° R 06'49	-1°-30'-8
minimum elong	-3209 May 01 j 05:43	13° Υ 10'20	1°54'16	minimum elong		-3201 May 20 j 00:59	1° R 06'50	1°30'05
max. Earth dist.	-3209 May 01 j 08:51	13° Υ 10'37	30.88299 AU	max. Earth dist.		-3201 May 19 j 17:51	1° R 06'10	30.93012 AU
retrograde	-3209 Aug 15 j 03:08	15° Υ 42'40		retrograde		-3201 Sep 02 j 02:40	3° R 37'46	
opposition	-3209 Nov 01 j 01:46	14° Υ 18'23	-2°00'-53	opposition		-3201 Nov 18 j 12:56	2° R 13'55	-1°-34'-25
min. Earth dist.	-3209 Nov 01 j 00:04	14° Υ 18'30	28.88815 AU	min. Earth dist.		-3201 Nov 18 j 18:32	2° R 13'31	28.93382 AU
direct	-3208 Jan 18 j 04:42	12° Υ 53'37		direct		-3200 Feb 05 j 09:08	0° R 48'44	
conjunction	-3208 May 02 j 20:10	15° Υ 25'05	-1°-51'-49	conjunction		-3200 May 21 j 15:05	3° R 20'35	-1°-26'-28
minimum elong	-3208 May 02 j 20:10	15° Υ 25'05	1°51'48	minimum elong		-3200 May 21 j 15:05	3° R 20'36	1°26'26
max. Earth dist.	-3208 May 02 j 21:19	15° Υ 25'12	30.89104 AU	max. Earth dist.		-3200 May 21 j 08:23	3° R 19'58	30.93628 AU
retrograde	-3208 Aug 16 j 15:51	17° Υ 57'19		retrograde		-3200 Sep 03 j 12:28	5° R 51'21	
opposition	-3208 Nov 02 j 12:11	16° Υ 33'08	-1°-58'-9	opposition		-3200 Nov 19 j 23:12	4° R 27'33	-1°-30'-26
min. Earth dist.	-3208 Nov 02 j 10:46	16° Υ 33'14	28.89603 AU	min. Earth dist.		-3200 Nov 20 j 05:56	4° R 27'04	28.94057 AU
direct	-3207 Jan 19 j 16:15	15° Υ 08'21		direct		-3199 Feb 06 j 20:25	3° R 02'19	
conjunction	-3207 May 05 j 10:43	17° Υ 39'56	-1°-49'-10	conjunction		-3199 May 24 j 04:55	5° R 34'11	-1°-22'-41
minimum elong	-3207 May 05 j 10:44	17° Υ 39'56	1°49'09	minimum elong		-3199 May 24 j 04:56	5° R 34'11	1°22'37
max. Earth dist.	-3207 May 05 j 11:15	17° Υ 39'59	30.89857 AU	max. Earth dist.		-3199 May 23 j 20:36	5° R 33'25	30.94386 AU
retrograde	-3207 Aug 19 j 02:58	20° Υ 12'01		retrograde		-3199 Sep 05 j 23:38	8° R 04'47	
opposition	-3207 Nov 04 j 22:50	18° Υ 47'55	-1°-55'-15	opposition		-3199 Nov 22 j 09:23	6° R 41'03	-1°-26'-19
min. Earth dist.	-3207 Nov 04 j 23:25	18° Υ 47'53	28.90313 AU	min. Earth dist.		-3199 Nov 22 j 15:53	6° R 40'35	28.94878 AU
direct	-3206 Jan 22 j 05:01	17° Υ 23'08		direct		-3198 Feb 09 j 08:14	5° R 15'47	
conjunction	-3206 May 08 j 01:20	19° Υ 54'47	-1°-46'-22	conjunction		-3198 May 26 j 18:57	7° R 47'43	-1°-18'-46
minimum elong	-3206 May 08 j 01:21	19° Υ 54'47	1°46'21	minimum elong		-3198 May 26 j 18:58	7° R 47'43	1°18'43
max. Earth dist.	-3206 May 08 j 00:09	19° Υ 54'40	30.90530 AU	max. Earth dist.		-3198 May 26 j 10:39	7° R 46'56	30.95273 AU
retrograde	-3206 Aug 21 j 15:52	22° Υ 26'43		retrograde		-3198 Sep 08 j 09:17	10° R 18'08	
opposition	-3206 Nov 07 j 09:11	21° Υ 02'41	-1°-52'-10	opposition		-3198 Nov 24 j 19:39	8° R 54'29	-1°-22'-4
min. Earth dist.	-3206 Nov 07 j 09:56	21° Υ 02'38	28.90923 AU	min. Earth dist.		-3198 Nov 25 j 03:42	8° R 53'55	28.95823 AU
direct	-3205 Jan 24 j 18:46	19° Υ 37'51		direct		-3197 Feb 11 j 19:50	7° R 29'14	
conjunction	-3205 May 10 j 15:55	22° Υ 09'34	-1°-43'-25	conjunction		-3197 May 29 j 08:50	10° R 01'13	-1°-14'-43
minimum elong	-3205 May 10 j 15:55	22° Υ 09'34	1°43'24	minimum elong		-3197 May 29 j 08:50	10° R 01'13	1°14'40
max. Earth dist.	-3205 May 10 j 13:19	22° Υ 09'20	30.91092 AU	max. Earth dist.		-3197 May 28 j 23:20	10° R 00'20	30.96287 AU
retrograde	-3205 Aug 24 j 03:39	24° Υ 41'20		retrograde		-3197 Sep 10 j 21:31	12° R 31'30	
opposition	-3205 Nov 09 j 19:47	23° Υ 17'20	-1°-48'-56	opposition		-3197 Nov 27 j 05:52	11° R 07'57	-1°-17'-42
min. Earth dist.	-3205 Nov 09 j 22:35	23° Υ 17'08	28.91444 AU	min. Earth dist.		-3197 Nov 27 j 13:37	11° R 07'24	28.96865 AU
direct	-3204 Jan 27 j 06:21	21° Υ 52'27		direct		-3196 Feb 14 j 08:23	9° R 42'42	
conjunction	-3204 May 12 j 06:15	24° Υ 24'12	-1°-40'-18	conjunction		-3196 May 30 j 22:34	12° R 14'45	-1°-10'-35
minimum elong	-3204 May 12 j 06:16	24° Υ 24'12	1°40'17	minimum elong		-3196 May 30 j 22:34	12° R 14'45	1°10'31
max. Earth dist.	-3204 May 12 j 03:01	24° Υ 23'54	30.91588 AU	max. Earth dist.		-3196 May 30 j 12:18	12° R 13'48	30.97352 AU
retrograde	-3204 Aug 25 j 16:40	26° Υ 55'46		retrograde		-3196 Sep 12 j 08:37	14° R 44'55	
opposition	-3204 Nov 11 j 06:09	25° Υ 31'49	-1°-45'-32	opposition		-3196 Nov 28 j 16:15	13° R 21'29	-1°-13'-12
min. Earth dist.	-3204 Nov 11 j 09:12	25° Υ 31'36	28.91900 AU	min. Earth dist.		-3196 Nov 29 j 01:48	13° R 20'48	28.97940 AU
direct	-3203 Jan 28 j 20:52	24° Υ 06'52		direct		-3195 Feb 15 j 19:36	11° R 56'14	
conjunction	-3203 May 14 j 20:34	26° Υ 38'38	-1°-37'-3	conjunction		-3195 Jun 02 j 12:29	14° R 28'22	-1°-6'-19
minimum elong	-3203 May 14 j 20:35	26° Υ 38'39	1°37'02	minimum elong		-3195 Jun 02 j 12:29	14° R 28'22	1°06'15
max. Earth dist.	-3203 May 14 j 15:27	26° Υ 38'10	30.92037 AU	max. Earth dist.		-3195 Jun 02 j 01:34	14° R 27'21	30.98422 AU
retrograde	-3203 Aug 28 j 04:28	29° Υ 10'00		retrograde		-3195 Jun 16 j 19:18	15° R	
opposition	-3203 Nov 13 j 16:25	27° Υ 46'05	-1°-41'-58	retrograde		-3195 Sep 14 j 21:05	16° R 58'22	
min. Earth dist.	-3203 Nov 13 j 20:55	27° Υ 45'45	28.92350 AU	opposition		-3195 Dec 01 j 02:26	15° R 35'02	-1°-8'-36
direct	-3202 Jan 31 j 08:38	26° Υ 21'02		min. Earth dist.		-3195 Dec 01 j 12:18	15° R 34'20	28.98971 AU
conjunction	-3202 May 17 j 10:58	28° Υ 52'51	-1°-33'-40	direct		-3195 Dec 22 j 09:20	15° R R	
minimum elong	-3202 May 17 j 10:59	28° Υ 52'51	1°33'38	direct		-3194 Feb 18 j 09:49	14° R 09'49	
max. Earth dist.	-3202 May 17 j 05:48	28° Υ 52'22	30.92500 AU	direct		-3194 Apr 16 j 00:19	15° R	

Attention, astronomical year style is used: The year -3194 in astronomical counting style is the year 3195 BCE in historical counting style.

conjunction	-3194 Jun 05 j 02:22	16° $\text{R}42'00$	-1°-1'-58	direct	-3186 Mar 08 j 09:35	1° $\text{II}54'45$	
minimum elong	-3194 Jun 05 j 02:23	16° $\text{R}42'00$	1°01'55				
max. Earth dist.	-3194 Jun 04 j 13:37	16° $\text{R}40'49$	30.99416 AU	conjunction	-3186 Jun 23 j 13:07	4° $\text{II}27'00$	0°-24'-36
retrograde	-3194 Sep 17 j 08:59	19° $\text{R}11'51$		minimum elong	-3186 Jun 23 j 13:07	4° $\text{II}27'00$	0°24'32
opposition	-3194 Dec 03 j 12:54	17° $\text{R}48'37$	-1°-3'-54	max. Earth dist.	-3186 Jun 22 j 18:54	4° $\text{II}25'19$	31.05876 AU
min. Earth dist.	-3194 Dec 04 j 00:11	17° $\text{R}47'49$	28.99926 AU	retrograde	-3186 Oct 04 j 20:54	6° $\text{II}55'32$	
direct	-3193 Feb 20 j 21:41	16° $\text{R}23'23$		opposition	-3186 Dec 20 j 23:31	5° $\text{II}32'46$	0°-23'-42
				min. Earth dist.	-3186 Dec 21 j 15:35	5° $\text{II}31'38$	29.06431 AU
conjunction	-3193 Jun 07 j 16:09	18° $\text{R}55'36$	0°-57'-32	direct	-3185 Mar 10 j 23:42	4° $\text{II}07'19$	
minimum elong	-3193 Jun 07 j 16:10	18° $\text{R}55'36$	0°57'28	max. Earth dist.	-3185 Jun 25 j 06:41	6° $\text{II}37'49$	31.06979 AU
max. Earth dist.	-3193 Jun 07 j 03:11	18° $\text{R}54'24$	31.00321 AU				
retrograde	-3193 Sep 19 j 19:38	21° $\text{R}25'18$		conjunction	-3185 Jun 26 j 01:51	6° $\text{II}39'35$	0°-19'-42
opposition	-3193 Dec 05 j 23:18	20° $\text{R}02'08$	0°-59'-6	minimum elong	-3185 Jun 26 j 01:51	6° $\text{II}39'35$	0°19'37
min. Earth dist.	-3193 Dec 06 j 11:24	20° $\text{R}01'17$	29.00770 AU	retrograde	-3185 Oct 07 j 08:12	9° $\text{II}08'01$	
direct	-3192 Feb 23 j 11:12	18° $\text{R}36'53$		opposition	-3185 Dec 23 j 09:56	7° $\text{II}45'19$	0°-18'-27
				min. Earth dist.	-3185 Dec 24 j 02:47	7° $\text{II}44'08$	29.07590 AU
conjunction	-3192 Jun 09 j 05:45	21° $\text{R}09'08$	0°-53'00	direct	-3184 Mar 12 j 11:08	6° $\text{II}19'54$	
minimum elong	-3192 Jun 09 j 05:46	21° $\text{R}09'08$	0°52'57				
max. Earth dist.	-3192 Jun 08 j 14:35	21° $\text{R}07'44$	31.01129 AU	conjunction	-3184 Jun 27 j 14:43	8° $\text{II}52'12$	0°-14'-47
retrograde	-3192 Sep 21 j 07:47	23° $\text{R}38'40$		minimum elong	-3184 Jun 27 j 14:43	8° $\text{II}52'12$	0°14'43
opposition	-3192 Dec 07 j 09:35	22° $\text{R}15'34$	0°-54'-14	behind sun begin	-3184 Jun 27 j 12:12	8° $\text{II}51'58$	
min. Earth dist.	-3192 Dec 07 j 22:23	22° $\text{R}14'39$	29.01543 AU	behind sun end	-3184 Jun 27 j 17:13	8° $\text{II}52'25$	
direct	-3191 Feb 24 j 22:46	20° $\text{R}50'16$		max. Earth dist.	-3184 Jun 26 j 19:57	8° $\text{II}50'28$	31.08171 AU
				retrograde	-3184 Oct 08 j 18:58	11° $\text{II}20'30$	
conjunction	-3191 Jun 11 j 19:24	23° $\text{R}22'32$	0°-48'-25	opposition	-3184 Dec 24 j 20:16	9° $\text{II}57'55$	0°-13'-10
minimum elong	-3191 Jun 11 j 19:25	23° $\text{R}22'32$	0°48'20	min. Earth dist.	-3184 Dec 25 j 13:39	9° $\text{II}56'42$	29.08788 AU
max. Earth dist.	-3191 Jun 11 j 04:22	23° $\text{R}21'08$	31.01866 AU	direct	-3183 Mar 15 j 00:17	8° $\text{II}32'32$	
retrograde	-3191 Sep 23 j 17:21	25° $\text{R}51'53$		max. Earth dist.	-3183 Jun 29 j 06:55	11° $\text{II}02'57$	31.09371 AU
opposition	-3191 Dec 09 j 19:58	24° $\text{R}28'50$	0°-49'-17				
min. Earth dist.	-3191 Dec 10 j 10:14	24° $\text{R}27'50$	29.02244 AU	conjunction	-3183 Jun 30 j 03:27	11° $\text{II}04'51$	0°-9'-51
direct	-3190 Feb 27 j 10:44	23° $\text{R}03'31$		minimum elong	-3183 Jun 30 j 03:27	11° $\text{II}04'51$	0°09'45
				behind sun begin	-3183 Jun 29 j 22:06	11° $\text{II}04'23$	
conjunction	-3190 Jun 14 j 08:46	25° $\text{R}35'46$	0°-43'-45	behind sun end	-3183 Jun 30 j 08:48	11° $\text{II}05'20$	
minimum elong	-3190 Jun 14 j 08:47	25° $\text{R}35'46$	0°43'41	retrograde	-3183 Oct 11 j 07:44	13° $\text{II}33'02$	
max. Earth dist.	-3190 Jun 13 j 15:53	25° $\text{R}34'12$	31.02562 AU	opposition	-3183 Dec 27 j 06:46	12° $\text{II}10'33$	0°-7'-52
retrograde	-3190 Sep 26 j 03:47	28° $\text{R}04'56$		min. Earth dist.	-3183 Dec 28 j 00:32	12° $\text{II}09'18$	29.09975 AU
opposition	-3190 Dec 12 j 06:12	26° $\text{R}41'56$	0°-44'-17	direct	-3182 Mar 17 j 12:42	10° $\text{II}45'12$	
min. Earth dist.	-3190 Dec 12 j 20:22	26° $\text{R}40'56$	29.02935 AU				
direct	-3189 Mar 01 j 22:55	25° $\text{R}16'34$		conjunction	-3182 Jul 02 j 16:17	13° $\text{II}17'32$	0°-4'-55
				minimum elong	-3182 Jul 02 j 16:17	13° $\text{II}17'32$	0°04'50
conjunction	-3189 Jun 16 j 22:07	27° $\text{R}48'49$	0°-39'-2	behind sun begin	-3182 Jul 02 j 09:53	13° $\text{II}16'58$	
minimum elong	-3189 Jun 16 j 22:08	27° $\text{R}48'49$	0°38'57	behind sun end	-3182 Jul 02 j 22:41	13° $\text{II}18'06$	
max. Earth dist.	-3189 Jun 16 j 05:24	27° $\text{R}47'16$	31.03260 AU	max. Earth dist.	-3182 Jul 01 j 20:08	13° $\text{II}15'40$	31.10513 AU
	-3189 Aug 27 j 05:56	0° II		retrograde	-3182 Oct 13 j 17:09	15° $\text{II}45'36$	
retrograde	-3189 Sep 28 j 12:34	0° $\text{II}17'49$		opposition	-3182 Dec 29 j 17:26	14° $\text{II}23'12$	0°-2'-34
	-3189 Oct 31 j 08:02	30° R		min. Earth dist.	-3182 Dec 30 j 12:37	14° $\text{II}21'51$	29.11068 AU
opposition	-3189 Dec 14 j 16:37	28° $\text{R}54'51$	0°-39'-13	direct	-3181 Mar 20 j 01:24	12° $\text{II}57'52$	
min. Earth dist.	-3189 Dec 15 j 08:15	28° $\text{R}53'45$	29.03659 AU	asc. node	-3181 Jun 26 j 18:51	15° $\text{II}11'26$	
direct	-3188 Mar 03 j 10:14	27° $\text{R}29'26$		max. Earth dist.	-3181 Jul 04 j 06:59	15° $\text{II}28'10$	31.11556 AU
	-3188 Jun 17 j 16:58	0° II					
conjunction	-3188 Jun 18 j 11:02	0° $\text{II}01'41$	0°-34'-16	conjunction	-3181 Jul 05 j 04:56	15° $\text{II}30'12$	0°00'07
minimum elong	-3188 Jun 18 j 11:03	0° $\text{II}01'41$	0°34'12	minimum elong	-3181 Jul 05 j 04:55	15° $\text{II}30'12$	0°00'14
max. Earth dist.	-3188 Jun 17 j 17:18	0° $\text{II}00'02$	31.04027 AU	behind sun begin	-3181 Jul 04 j 22:26	15° $\text{II}29'37$	
retrograde	-3188 Sep 29 j 23:39	2° $\text{II}30'31$		behind sun end	-3181 Jul 05 j 11:24	15° $\text{II}30'46$	
opposition	-3188 Dec 16 j 02:51	1° $\text{II}07'36$	0°-34'-5	retrograde	-3181 Oct 16 j 04:05	17° $\text{II}58'07$	
min. Earth dist.	-3188 Dec 16 j 17:56	1° $\text{II}06'32$	29.04464 AU	opposition	-3180 Jan 01 j 04:03	16° $\text{II}35'47$	0°02'44
	-3187 Jan 31 j 09:29	30° R		min. Earth dist.	-3180 Jan 01 j 23:04	16° $\text{II}34'28$	29.12056 AU
direct	-3187 Mar 05 j 22:08	29° $\text{R}42'09$		direct	-3180 Mar 21 j 13:32	15° $\text{II}10'27$	
	-3187 Apr 08 j 05:21	0° II					
max. Earth dist.	-3187 Jun 20 j 06:01	2° $\text{II}12'43$	31.04883 AU	conjunction	-3180 Jul 06 j 17:29	17° $\text{II}42'46$	0°05'09
				minimum elong	-3180 Jul 06 j 17:30	17° $\text{II}42'46$	0°05'15
conjunction	-3187 Jun 21 j 00:07	2° $\text{II}14'23$	0°-29'-27	behind sun begin	-3180 Jul 06 j 11:09	17° $\text{II}42'12$	
minimum elong	-3187 Jun 21 j 00:07	2° $\text{II}14'23$	0°29'22	behind sun end	-3180 Jul 05 j 23:50	17° $\text{II}43'20$	
retrograde	-3187 Oct 02 j 09:30	4° $\text{II}43'04$		max. Earth dist.	-3180 Jul 06 j 19:38	17° $\text{II}40'45$	31.12472 AU
opposition	-3187 Dec 18 j 13:10	3° $\text{II}20'13$	0°-28'-55	retrograde	-3180 Oct 17 j 13:05	20° $\text{II}10'34$	
min. Earth dist.	-3187 Dec 19 j 05:34	3° $\text{II}19'04$	29.05388 AU	opposition	-3179 Jan 02 j 14:50	18° $\text{II}48'17$	0°08'02
				min. Earth dist.	-3179 Jan 03 j 11:31	18° $\text{II}46'50$	29.12911 AU

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

direct	-3179 Mar 24 j 00:55	17°II22'56		max. Earth dist.	-3172 Jul 23 j 16:19	5°☾15'22	31.18401 AU
max. Earth dist.	-3179 Jul 08 j 06:48	19°II53'03	31.13270 AU	retrograde	-3172 Nov 04 j 00:15	7°☾44'36	
				opposition	-3171 Jan 20 j 04:32	6°☾22'37	0°49'10
conjunction	-3179 Jul 09 j 05:59	19°II55'13	0°10'04	min. Earth dist.	-3171 Jan 21 j 02:21	6°☾21'06	29.18931 AU
minimum elong	-3179 Jul 09 j 05:59	19°II55'13	0°10'11	direct	-3171 Apr 11 j 04:11	4°☾57'16	
behind sun begin	-3179 Jul 09 j 00:47	19°II54'45		max. Earth dist.	-3171 Jul 26 j 04:37	7°☾27'04	31.19368 AU
behind sun end	-3179 Jul 09 j 11:11	19°II55'40					
retrograde	-3179 Oct 19 j 23:44	22°II22'52		conjunction	-3171 Jul 27 j 04:44	7°☾29'18	0°48'22
opposition	-3178 Jan 05 j 01:21	21°II00'37	0°13'18	minimum elong	-3171 Jul 27 j 04:44	7°☾29'18	0°48'29
min. Earth dist.	-3178 Jan 05 j 21:43	20°II59'12	29.13648 AU	retrograde	-3171 Nov 06 j 09:33	9°☾56'11	
direct	-3178 Mar 26 j 13:04	19°II35'14		opposition	-3170 Jan 22 j 15:30	8°☾34'17	0°54'03
				min. Earth dist.	-3170 Jan 23 j 14:33	8°☾32'41	29.19898 AU
conjunction	-3178 Jul 11 j 18:25	22°II07'28	0°15'00	direct	-3170 Apr 13 j 15:16	7°☾09'00	
minimum elong	-3178 Jul 11 j 18:25	22°II07'28	0°15'05				
behind sun begin	-3178 Jul 11 j 16:17	22°II07'17		conjunction	-3170 Jul 29 j 16:10	9°☾41'01	0°52'54
behind sun end	-3178 Jul 11 j 20:33	22°II07'40		minimum elong	-3170 Jul 29 j 16:10	9°☾41'01	0°53'00
max. Earth dist.	-3178 Jul 10 j 18:44	22°II05'16	31.13955 AU	max. Earth dist.	-3170 Jul 28 j 15:19	9°☾38'42	31.20315 AU
retrograde	-3178 Oct 22 j 08:57	24°II35'00		retrograde	-3170 Nov 08 j 20:17	12°☾07'52	
opposition	-3177 Jan 07 j 12:09	23°II12'46	0°18'34	opposition	-3169 Jan 25 j 02:32	10°☾46'02	0°58'52
min. Earth dist.	-3177 Jan 08 j 09:59	23°II11'14	29.14306 AU	min. Earth dist.	-3169 Jan 26 j 00:51	10°☾44'29	29.20810 AU
direct	-3177 Mar 29 j 00:41	21°II47'21		direct	-3169 Apr 16 j 02:56	9°☾20'48	
max. Earth dist.	-3177 Jul 13 j 06:42	24°II17'19	31.14589 AU	max. Earth dist.	-3169 Jul 31 j 02:29	11°☾50'27	31.21169 AU
conjunction	-3177 Jul 14 j 06:29	24°II19'32	0°19'53	conjunction	-3169 Aug 01 j 03:29	11°☾52'47	0°57'22
minimum elong	-3177 Jul 14 j 06:29	24°II19'32	0°20'00	minimum elong	-3169 Aug 01 j 03:28	11°☾52'47	0°57'28
retrograde	-3177 Oct 24 j 19:10	26°II46'55		retrograde	-3169 Nov 11 j 05:21	14°☾19'36	
opposition	-3176 Jan 09 j 22:49	25°II24'42	0°23'47	opposition	-3168 Jan 27 j 13:45	12°☾57'48	1°03'35
min. Earth dist.	-3176 Jan 10 j 20:23	25°II23'12	29.14921 AU	min. Earth dist.	-3168 Jan 28 j 13:17	12°☾56'11	29.21625 AU
direct	-3176 Mar 30 j 14:19	23°II59'15		direct	-3168 Apr 17 j 14:02	11°☾32'37	
conjunction	-3176 Jul 15 j 18:27	26°II31'23	0°24'45	conjunction	-3168 Aug 02 j 14:50	14°☾04'34	1°01'44
minimum elong	-3176 Jul 15 j 18:27	26°II31'23	0°24'51	minimum elong	-3168 Aug 02 j 14:50	14°☾04'34	1°01'49
max. Earth dist.	-3176 Jul 14 j 17:50	26°II29'06	31.15202 AU	max. Earth dist.	-3168 Aug 01 j 13:48	14°☾02'13	31.21917 AU
retrograde	-3176 Oct 26 j 05:51	28°II58'39		retrograde	-3168 Nov 12 j 15:11	16°☾31'19	
opposition	-3175 Jan 11 j 09:23	27°II36'26	0°28'58	opposition	-3167 Jan 29 j 00:45	15°☾09'33	1°08'12
min. Earth dist.	-3175 Jan 12 j 07:34	27°II34'54	29.15563 AU	min. Earth dist.	-3167 Jan 30 j 00:05	15°☾07'57	29.22302 AU
direct	-3175 Apr 02 j 01:28	26°II10'58		direct	-3167 Apr 20 j 02:29	13°☾44'22	
max. Earth dist.	-3175 Jul 17 j 06:30	28°II40'50	31.15864 AU	max. Earth dist.	-3167 Aug 04 j 00:09	16°☾13'51	31.22521 AU
conjunction	-3175 Jul 18 j 06:24	28°II43'04	0°29'35	conjunction	-3167 Aug 05 j 02:08	16°☾16'16	1°06'01
minimum elong	-3175 Jul 18 j 06:24	28°II43'04	0°29'42	minimum elong	-3167 Aug 05 j 02:08	16°☾16'16	1°06'07
	-3175 Aug 23 j 08:48	0°☾		retrograde	-3167 Nov 15 j 02:07	18°☾42'58	
retrograde	-3175 Oct 28 j 15:57	1°☾10'12		opposition	-3166 Jan 31 j 12:00	17°☾21'13	1°12'44
	-3174 Jan 06 j 15:16	30°R II		min. Earth dist.	-3166 Feb 01 j 11:55	17°☾19'34	29.22856 AU
opposition	-3174 Jan 13 j 20:10	29°II48'02	0°34'06	direct	-3166 Apr 22 j 12:57	15°☾56'02	
min. Earth dist.	-3174 Jan 14 j 18:24	29°II46'29	29.16258 AU				
direct	-3174 Apr 04 j 15:08	28°II22'34		conjunction	-3166 Aug 07 j 13:17	18°☾27'51	1°10'12
	-3174 Jun 25 j 18:01	0°☾		minimum elong	-3166 Aug 07 j 13:17	18°☾27'51	1°10'17
conjunction	-3174 Jul 20 j 18:01	0°☾54'37	0°34'21	max. Earth dist.	-3166 Aug 06 j 12:01	18°☾25'30	31.23006 AU
minimum elong	-3174 Jul 20 j 18:01	0°☾54'37	0°34'27	retrograde	-3166 Nov 17 j 12:02	20°☾54'29	
max. Earth dist.	-3174 Jul 19 j 17:01	0°☾52'17	31.16605 AU	opposition	-3165 Feb 02 j 23:18	19°☾32'43	1°17'08
retrograde	-3174 Oct 31 j 04:08	3°☾21'40		min. Earth dist.	-3165 Feb 03 j 23:25	19°☾31'04	29.23283 AU
opposition	-3173 Jan 16 j 06:54	1°☾59'32	0°39'11	direct	-3165 Apr 25 j 03:02	18°☾07'32	
min. Earth dist.	-3173 Jan 17 j 04:45	1°☾58'01	29.17062 AU	max. Earth dist.	-3165 Aug 08 j 21:46	20°☾36'48	31.23390 AU
direct	-3173 Apr 07 j 03:40	0°☾34'05					
max. Earth dist.	-3173 Jul 22 j 05:53	3°☾03'55	31.17457 AU	conjunction	-3165 Aug 10 j 00:12	20°☾39'16	1°14'16
				minimum elong	-3165 Aug 10 j 00:12	20°☾39'16	1°14'23
conjunction	-3173 Jul 23 j 05:44	3°☾06'08	0°39'05	retrograde	-3165 Nov 20 j 00:12	23°☾05'49	
minimum elong	-3173 Jul 23 j 05:44	3°☾06'08	0°39'12	opposition	-3164 Feb 05 j 10:27	21°☾44'02	1°21'26
retrograde	-3173 Nov 02 j 13:24	5°☾33'07		min. Earth dist.	-3164 Feb 06 j 10:14	21°☾42'24	29.23649 AU
opposition	-3172 Jan 18 j 17:47	4°☾11'02	0°44'12	direct	-3164 Apr 26 j 15:41	20°☾18'49	
min. Earth dist.	-3172 Jan 19 j 16:21	4°☾09'29	29.17963 AU	max. Earth dist.	-3164 Aug 10 j 09:48	22°☾48'06	31.23725 AU
direct	-3172 Apr 08 j 16:16	2°☾45'39					
				conjunction	-3164 Aug 11 j 11:04	22°☾50'28	1°18'14
conjunction	-3172 Jul 24 j 17:08	5°☾17'40	0°43'45	minimum elong	-3164 Aug 11 j 11:04	22°☾50'28	1°18'20
minimum elong	-3172 Jul 24 j 17:08	5°☾17'40	0°43'51	retrograde	-3164 Nov 21 j 08:59	25°☾16'56	
				opposition	-3163 Feb 06 j 21:46	23°☾55'07	1°25'37

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Attention, astronomical year style is used: The year -3163 in astronomical counting style is the year 3164 BCE in historical counting style.

min. Earth dist.	-3163 Feb 07 j 22:15	23° \mathcal{E} 53'26	29.23975 AU	min. Earth dist.	-3155 Feb 25 j 15:03	11° \mathcal{O} 19'55	29.28458 AU
direct	-3163 Apr 29 j 04:35	22° \mathcal{E} 29'53		direct	-3155 May 17 j 02:21	9° \mathcal{O} 56'32	
conjunction	-3163 Aug 13 j 21:39	25° \mathcal{E} 01'25	1°22'05	max. Earth dist.	-3155 Aug 30 j 09:46	12° \mathcal{O} 25'31	31.28518 AU
minimum elong	-3163 Aug 13 j 21:38	25° \mathcal{E} 01'25	1°22'12	conjunction	-3155 Aug 31 j 08:00	12° \mathcal{O} 27'36	1°48'10
max. Earth dist.	-3163 Aug 12 j 19:43	24° \mathcal{E} 59'00	31.24059 AU	minimum elong	-3155 Aug 31 j 08:00	12° \mathcal{O} 27'36	1°48'16
retrograde	-3163 Nov 23 j 19:48	27° \mathcal{E} 27'50		retrograde	-3155 Dec 11 j 05:10	14° \mathcal{O} 54'06	
opposition	-3162 Feb 09 j 08:56	26° \mathcal{E} 05'59	1°29'40	opposition	-3154 Feb 27 j 05:34	13° \mathcal{O} 32'24	1°56'57
min. Earth dist.	-3162 Feb 10 j 08:14	26° \mathcal{E} 04'23	29.24340 AU	min. Earth dist.	-3154 Feb 28 j 03:41	13° \mathcal{O} 30'54	29.28815 AU
direct	-3162 May 01 j 17:31	24° \mathcal{E} 40'44		direct	-3154 May 19 j 14:35	12° \mathcal{O} 07'37	
max. Earth dist.	-3162 Aug 15 j 07:33	27° \mathcal{E} 09'53	31.24450 AU	conjunction	-3154 Sep 02 j 18:03	14° \mathcal{O} 38'35	1°50'47
conjunction	-3162 Aug 16 j 08:16	27° \mathcal{E} 12'12	1°25'49	minimum elong	-3154 Sep 02 j 18:03	14° \mathcal{O} 38'35	1°50'51
minimum elong	-3162 Aug 16 j 08:16	27° \mathcal{E} 12'12	1°25'54	max. Earth dist.	-3154 Sep 01 j 19:07	14° \mathcal{O} 36'26	31.28812 AU
retrograde	-3162 Nov 26 j 05:11	29° \mathcal{E} 38'33		-3154 Sep 12 j 06:44	15° \mathcal{O}		
opposition	-3161 Feb 11 j 20:25	28° \mathcal{E} 16'42	1°33'35	retrograde	-3154 Dec 13 j 16:47	17° \mathcal{O} 05'07	
min. Earth dist.	-3161 Feb 12 j 20:15	28° \mathcal{E} 15'04	29.24790 AU	opposition	-3153 Mar 01 j 17:27	15° \mathcal{O} 43'25	1°59'39
direct	-3161 May 04 j 05:43	26° \mathcal{E} 51'29		min. Earth dist.	-3153 Mar 02 j 14:24	15° \mathcal{O} 41'59	29.29048 AU
conjunction	-3161 Aug 18 j 18:31	29° \mathcal{E} 22'50	1°29'25	-3153 Mar 29 j 15:04	15° \mathcal{R} \mathcal{O}		
minimum elong	-3161 Aug 18 j 18:31	29° \mathcal{E} 22'50	1°29'31	direct	-3153 May 22 j 03:37	14° \mathcal{O} 18'39	
max. Earth dist.	-3161 Aug 17 j 17:53	29° \mathcal{E} 20'32	31.24954 AU	-3153 Jul 12 j 14:49	15° \mathcal{O}		
retrograde	-3161 Nov 28 j 15:11	1° \mathcal{O} 49'10		max. Earth dist.	-3153 Sep 04 j 06:03	16° \mathcal{O} 47'29	31.28975 AU
opposition	-3160 Feb 14 j 07:43	0° \mathcal{O} 27'20	1°37'22	conjunction	-3153 Sep 05 j 04:01	16° \mathcal{O} 49'33	1°53'13
min. Earth dist.	-3160 Feb 15 j 06:04	0° \mathcal{O} 25'48	29.25344 AU	minimum elong	-3153 Sep 05 j 04:01	16° \mathcal{O} 49'33	1°53'18
direct	-3160 Mar 02 j 05:34	30° \mathcal{R} \mathcal{E}		retrograde	-3153 Dec 16 j 02:59	19° \mathcal{O} 16'05	
max. Earth dist.	-3160 Aug 19 j 04:45	1° \mathcal{O} 31'11	31.25550 AU	opposition	-3152 Mar 03 j 05:29	17° \mathcal{O} 54'21	2°02'10
conjunction	-3160 Aug 20 j 04:55	1° \mathcal{O} 33'27	1°32'54	min. Earth dist.	-3152 Mar 04 j 03:12	17° \mathcal{O} 52'52	29.29164 AU
minimum elong	-3160 Aug 20 j 04:55	1° \mathcal{O} 33'27	1°32'58	direct	-3152 May 23 j 16:20	16° \mathcal{O} 29'37	
retrograde	-3160 Nov 30 j 00:08	3° \mathcal{O} 59'47		conjunction	-3152 Sep 06 j 13:52	19° \mathcal{O} 00'24	1°55'31
opposition	-3159 Feb 15 j 19:02	2° \mathcal{O} 37'58	1°41'00	minimum elong	-3152 Sep 06 j 13:52	19° \mathcal{O} 00'24	1°55'34
min. Earth dist.	-3159 Feb 16 j 17:55	2° \mathcal{O} 36'24	29.25993 AU	max. Earth dist.	-3152 Sep 05 j 15:55	18° \mathcal{O} 58'20	31.29049 AU
direct	-3159 May 08 j 04:27	1° \mathcal{O} 12'50		retrograde	-3152 Dec 17 j 12:54	21° \mathcal{O} 26'57	
conjunction	-3159 Aug 22 j 15:15	3° \mathcal{O} 44'06	1°36'14	opposition	-3151 Mar 05 j 17:13	20° \mathcal{O} 05'10	2°04'31
minimum elong	-3159 Aug 22 j 15:15	3° \mathcal{O} 44'06	1°36'20	min. Earth dist.	-3151 Mar 06 j 13:35	20° \mathcal{O} 03'47	29.29202 AU
max. Earth dist.	-3159 Aug 21 j 15:51	3° \mathcal{O} 41'54	31.26226 AU	direct	-3151 May 26 j 05:24	18° \mathcal{O} 40'26	
retrograde	-3159 Dec 02 j 09:42	6° \mathcal{O} 10'27		conjunction	-3151 Sep 08 j 23:38	21° \mathcal{O} 11'07	1°57'38
opposition	-3158 Feb 18 j 06:32	4° \mathcal{O} 48'40	1°44'30	minimum elong	-3151 Sep 08 j 23:38	21° \mathcal{O} 11'07	1°57'42
min. Earth dist.	-3158 Feb 19 j 04:34	4° \mathcal{O} 47'10	29.26675 AU	max. Earth dist.	-3151 Sep 08 j 02:09	21° \mathcal{O} 09'06	31.29065 AU
direct	-3158 May 10 j 16:12	3° \mathcal{O} 23'37		retrograde	-3151 Dec 19 j 21:42	23° \mathcal{O} 37'42	
max. Earth dist.	-3158 Aug 24 j 01:43	5° \mathcal{O} 52'37	31.26903 AU	opposition	-3150 Mar 08 j 05:19	22° \mathcal{O} 15'52	2°06'42
conjunction	-3158 Aug 25 j 01:22	5° \mathcal{O} 54'50	1°39'26	min. Earth dist.	-3150 Mar 09 j 01:58	22° \mathcal{O} 14'28	29.29232 AU
minimum elong	-3158 Aug 25 j 01:22	5° \mathcal{O} 54'50	1°39'31	direct	-3150 May 28 j 16:22	20° \mathcal{O} 51'09	
retrograde	-3158 Dec 04 j 20:55	8° \mathcal{O} 21'14		conjunction	-3150 Sep 11 j 09:11	23° \mathcal{O} 21'43	1°59'35
opposition	-3157 Feb 20 j 18:13	6° \mathcal{O} 59'29	1°47'51	minimum elong	-3150 Sep 11 j 09:10	23° \mathcal{O} 21'43	1°59'38
min. Earth dist.	-3157 Feb 21 j 16:15	6° \mathcal{O} 57'59	29.27354 AU	max. Earth dist.	-3150 Sep 10 j 12:57	23° \mathcal{O} 19'49	31.29108 AU
direct	-3157 May 13 j 01:52	5° \mathcal{O} 34'31		retrograde	-3150 Dec 22 j 06:34	25° \mathcal{O} 48'19	
conjunction	-3157 Aug 27 j 11:40	8° \mathcal{O} 05'40	1°42'30	opposition	-3149 Mar 10 j 17:23	24° \mathcal{O} 26'27	2°08'42
minimum elong	-3157 Aug 27 j 11:39	8° \mathcal{O} 05'40	1°42'36	min. Earth dist.	-3149 Mar 11 j 12:41	24° \mathcal{O} 25'08	29.29299 AU
max. Earth dist.	-3157 Aug 26 j 13:12	8° \mathcal{O} 03'34	31.27546 AU	direct	-3149 May 31 j 04:28	23° \mathcal{O} 01'46	
retrograde	-3157 Dec 07 j 07:01	10° \mathcal{O} 32'06		conjunction	-3149 Sep 13 j 18:41	25° \mathcal{O} 32'13	2°01'21
opposition	-3156 Feb 23 j 05:52	9° \mathcal{O} 10'24	1°51'03	minimum elong	-3149 Sep 13 j 18:41	25° \mathcal{O} 32'13	2°01'25
min. Earth dist.	-3156 Feb 24 j 03:52	9° \mathcal{O} 08'54	29.27957 AU	max. Earth dist.	-3149 Sep 12 j 22:34	25° \mathcal{O} 30'19	31.29212 AU
direct	-3156 May 14 j 14:48	7° \mathcal{O} 45'30		retrograde	-3149 Dec 24 j 17:34	27° \mathcal{O} 58'52	
conjunction	-3156 Aug 28 j 21:46	10° \mathcal{O} 16'36	1°45'25	opposition	-3148 Mar 12 j 05:19	26° \mathcal{O} 36'58	2°10'30
minimum elong	-3156 Aug 28 j 21:46	10° \mathcal{O} 16'36	1°45'29	min. Earth dist.	-3148 Mar 13 j 00:04	26° \mathcal{O} 35'42	29.29462 AU
max. Earth dist.	-3156 Aug 27 j 22:21	10° \mathcal{O} 14'25	31.28096 AU	direct	-3148 Jun 01 j 14:08	25° \mathcal{O} 12'20	
retrograde	-3156 Dec 08 j 19:39	12° \mathcal{O} 43'05		max. Earth dist.	-3148 Sep 14 j 09:55	27° \mathcal{O} 40'58	31.29414 AU
opposition	-3155 Feb 24 j 17:37	11° \mathcal{O} 21'23	1°54'04	conjunction	-3148 Sep 15 j 04:17	27° \mathcal{O} 42'42	2°02'58
retrograde	-3155 Feb 24 j 17:37	11° \mathcal{O} 21'23	1°54'04	minimum elong	-3148 Sep 15 j 04:17	27° \mathcal{O} 42'42	2°03'01
opposition	-3155 Feb 24 j 17:37	11° \mathcal{O} 21'23	1°54'04	-3148 Dec 02 j 16:19	0° \mathcal{R} \mathcal{O}		
				retrograde	-3148 Dec 26 j 03:07	0° \mathcal{R} \mathcal{O} 09'25	

Attention, astronomical year style is used: The year -3147 in astronomical counting style is the year 3148 BCE in historical counting style.

	-3147 Jan 19 j 04:39	30°RΩ		retrograde	-3139 Jan 12 j 18:33	17° $\mathring{\text{M}}$ 36'12	
opposition	-3147 Mar 14 j 17:27	28°Ω47'30	2°12'08	opposition	-3139 Apr 01 j 21:00	16° $\mathring{\text{M}}$ 14'03	2°18'08
min. Earth dist.	-3147 Mar 15 j 11:30	28°Ω46'17	29.29695 AU	min. Earth dist.	-3139 Apr 02 j 10:38	16° $\mathring{\text{M}}$ 13'08	29.29860 AU
direct	-3147 Jun 04 j 02:35	27°Ω22'56		direct	-3139 Jun 22 j 00:27	14° $\mathring{\text{M}}$ 49'56	
conjunction	-3147 Sep 17 j 13:36	29°Ω53'13	2°04'23	conjunction	-3139 Oct 04 j 16:44	17° $\mathring{\text{M}}$ 19'28	2°09'16
minimum elong	-3147 Sep 17 j 13:36	29°Ω53'13	2°04'27	minimum elong	-3139 Oct 04 j 16:44	17° $\mathring{\text{M}}$ 19'28	2°09'19
max. Earth dist.	-3147 Sep 16 j 18:59	29°Ω51'28	31.29683 AU	max. Earth dist.	-3139 Oct 04 j 03:49	17° $\mathring{\text{M}}$ 18'15	31.29462 AU
	-3147 Sep 20 j 13:41	0° $\mathring{\text{M}}$		retrograde	-3138 Jan 15 j 03:45	19° $\mathring{\text{M}}$ 46'58	
retrograde	-3147 Dec 28 j 15:32	2° $\mathring{\text{M}}$ 20'01		opposition	-3138 Apr 04 j 09:43	18° $\mathring{\text{M}}$ 24'44	2°18'00
opposition	-3146 Mar 17 j 05:36	0° $\mathring{\text{M}}$ 58'06	2°13'33	min. Earth dist.	-3138 Apr 04 j 22:39	18° $\mathring{\text{M}}$ 23'52	29.29373 AU
min. Earth dist.	-3146 Mar 17 j 22:24	0° $\mathring{\text{M}}$ 56'58	29.29992 AU	direct	-3138 Jun 24 j 13:02	17° $\mathring{\text{M}}$ 00'38	
	-3146 Apr 25 j 14:38	30°RΩ					
direct	-3146 Jun 06 j 12:41	29°Ω33'36		conjunction	-3138 Oct 07 j 01:47	19° $\mathring{\text{M}}$ 30'02	2°09'04
	-3146 Jul 17 j 06:56	0° $\mathring{\text{M}}$		minimum elong	-3138 Oct 07 j 01:47	19° $\mathring{\text{M}}$ 30'02	2°09'05
				max. Earth dist.	-3138 Oct 06 j 12:42	19° $\mathring{\text{M}}$ 28'48	31.28977 AU
conjunction	-3146 Sep 19 j 23:08	2° $\mathring{\text{M}}$ 03'49	2°05'38	retrograde	-3137 Jan 17 j 15:53	21° $\mathring{\text{M}}$ 57'38	
minimum elong	-3146 Sep 19 j 23:08	2° $\mathring{\text{M}}$ 03'49	2°05'41	opposition	-3137 Apr 06 j 22:19	20° $\mathring{\text{M}}$ 35'19	2°17'41
max. Earth dist.	-3146 Sep 19 j 06:16	2° $\mathring{\text{M}}$ 02'14	31.29986 AU	min. Earth dist.	-3137 Apr 07 j 09:46	20° $\mathring{\text{M}}$ 34'32	29.28905 AU
retrograde	-3146 Dec 31 j 01:28	4° $\mathring{\text{M}}$ 30'43		direct	-3137 Jun 26 j 22:56	19° $\mathring{\text{M}}$ 11'14	
opposition	-3145 Mar 19 j 17:58	3° $\mathring{\text{M}}$ 08'48	2°14'48				
min. Earth dist.	-3145 Mar 20 j 10:56	3° $\mathring{\text{M}}$ 07'39	29.30291 AU	conjunction	-3137 Oct 09 j 10:52	21° $\mathring{\text{M}}$ 40'32	2°08'40
direct	-3145 Jun 08 j 23:52	1° $\mathring{\text{M}}$ 44'24		minimum elong	-3137 Oct 09 j 10:52	21° $\mathring{\text{M}}$ 40'32	2°08'41
				max. Earth dist.	-3137 Oct 08 j 23:46	21° $\mathring{\text{M}}$ 39'29	31.28523 AU
conjunction	-3145 Sep 22 j 08:25	4° $\mathring{\text{M}}$ 14'32	2°06'42	retrograde	-3136 Jan 20 j 01:46	24° $\mathring{\text{M}}$ 08'14	
minimum elong	-3145 Sep 22 j 08:25	4° $\mathring{\text{M}}$ 14'32	2°06'46	opposition	-3136 Apr 08 j 11:01	22° $\mathring{\text{M}}$ 45'51	2°17'10
max. Earth dist.	-3145 Sep 21 j 15:25	4° $\mathring{\text{M}}$ 12'56	31.30272 AU	min. Earth dist.	-3136 Apr 08 j 22:14	22° $\mathring{\text{M}}$ 45'05	29.28481 AU
retrograde	-3144 Jan 02 j 13:56	6° $\mathring{\text{M}}$ 41'31		direct	-3136 Jun 28 j 10:05	21° $\mathring{\text{M}}$ 21'48	
opposition	-3144 Mar 21 j 06:14	5° $\mathring{\text{M}}$ 19'36	2°15'50				
min. Earth dist.	-3144 Mar 21 j 21:44	5° $\mathring{\text{M}}$ 18'33	29.30544 AU	conjunction	-3136 Oct 10 j 19:50	23° $\mathring{\text{M}}$ 51'00	2°08'05
direct	-3144 Jun 10 j 12:34	3° $\mathring{\text{M}}$ 55'17		minimum elong	-3136 Oct 10 j 19:50	23° $\mathring{\text{M}}$ 51'00	2°08'05
				max. Earth dist.	-3136 Oct 10 j 09:06	23° $\mathring{\text{M}}$ 50'00	31.28148 AU
conjunction	-3144 Sep 23 j 17:55	6° $\mathring{\text{M}}$ 25'21	2°07'36	retrograde	-3135 Jan 21 j 14:18	26° $\mathring{\text{M}}$ 18'49	
minimum elong	-3144 Sep 23 j 17:55	6° $\mathring{\text{M}}$ 25'21	2°07'37	opposition	-3135 Apr 10 j 23:33	24° $\mathring{\text{M}}$ 56'23	2°16'27
max. Earth dist.	-3144 Sep 23 j 01:58	6° $\mathring{\text{M}}$ 23'51	31.30467 AU	min. Earth dist.	-3135 Apr 11 j 08:42	24° $\mathring{\text{M}}$ 55'46	29.28144 AU
retrograde	-3143 Jan 04 j 01:08	8° $\mathring{\text{M}}$ 52'26		direct	-3135 Jun 30 j 22:16	23° $\mathring{\text{M}}$ 32'25	
opposition	-3143 Mar 23 j 18:40	7° $\mathring{\text{M}}$ 30'29	2°16'41				
min. Earth dist.	-3143 Mar 24 j 10:45	7° $\mathring{\text{M}}$ 29'24	29.30690 AU	conjunction	-3135 Oct 13 j 04:55	26° $\mathring{\text{M}}$ 01'33	2°07'19
direct	-3143 Jun 13 j 00:48	6° $\mathring{\text{M}}$ 06'14		minimum elong	-3135 Oct 13 j 04:55	26° $\mathring{\text{M}}$ 01'33	2°07'20
max. Earth dist.	-3143 Sep 25 j 11:42	8° $\mathring{\text{M}}$ 34'44	31.30555 AU	max. Earth dist.	-3135 Oct 12 j 19:40	26° $\mathring{\text{M}}$ 00'41	31.27850 AU
				retrograde	-3134 Jan 24 j 02:16	28° $\mathring{\text{M}}$ 29'30	
conjunction	-3143 Sep 26 j 03:23	8° $\mathring{\text{M}}$ 36'13	2°08'18	opposition	-3134 Apr 13 j 12:25	27° $\mathring{\text{M}}$ 07'02	2°15'32
minimum elong	-3143 Sep 26 j 03:23	8° $\mathring{\text{M}}$ 36'13	2°08'20	min. Earth dist.	-3134 Apr 13 j 21:29	27° $\mathring{\text{M}}$ 06'25	29.27884 AU
retrograde	-3142 Jan 06 j 11:51	11° $\mathring{\text{M}}$ 03'23		direct	-3134 Jul 03 j 09:45	25° $\mathring{\text{M}}$ 43'09	
opposition	-3142 Mar 26 j 07:12	9° $\mathring{\text{M}}$ 41'26	2°17'21				
min. Earth dist.	-3142 Mar 26 j 21:47	9° $\mathring{\text{M}}$ 40'26	29.30702 AU	conjunction	-3134 Oct 15 j 13:49	28° $\mathring{\text{M}}$ 12'13	2°06'22
direct	-3142 Jun 15 j 13:44	8° $\mathring{\text{M}}$ 17'13		minimum elong	-3134 Oct 15 j 13:49	28° $\mathring{\text{M}}$ 12'13	2°06'22
				max. Earth dist.	-3134 Oct 15 j 05:37	28° $\mathring{\text{M}}$ 11'26	31.27629 AU
conjunction	-3142 Sep 28 j 12:43	10° $\mathring{\text{M}}$ 47'07	2°08'49		-3134 Dec 07 j 17:54	0°Ω	
minimum elong	-3142 Sep 28 j 12:43	10° $\mathring{\text{M}}$ 47'07	2°08'50	retrograde	-3133 Jan 26 j 13:21	0°Ω40'19	
max. Earth dist.	-3142 Sep 27 j 21:16	10° $\mathring{\text{M}}$ 45'39	31.30486 AU		-3133 Mar 19 j 16:48	30°R $\mathring{\text{M}}$	
retrograde	-3141 Jan 08 j 21:52	13° $\mathring{\text{M}}$ 14'22		opposition	-3133 Apr 16 j 01:09	29° $\mathring{\text{M}}$ 17'50	2°14'25
opposition	-3141 Mar 28 j 19:54	11° $\mathring{\text{M}}$ 52'22	2°17'48	min. Earth dist.	-3133 Apr 16 j 08:12	29° $\mathring{\text{M}}$ 17'21	29.27665 AU
min. Earth dist.	-3141 Mar 29 j 10:52	11° $\mathring{\text{M}}$ 51'21	29.30565 AU	direct	-3133 Jul 05 j 22:04	27° $\mathring{\text{M}}$ 54'02	
direct	-3141 Jun 18 j 01:06	10° $\mathring{\text{M}}$ 28'13			-3133 Oct 07 j 18:26	0°Ω	
conjunction	-3141 Sep 30 j 22:11	12° $\mathring{\text{M}}$ 57'59	2°09'09	conjunction	-3133 Oct 17 j 22:52	0°Ω23'02	2°05'14
minimum elong	-3141 Sep 30 j 22:12	12° $\mathring{\text{M}}$ 57'59	2°09'11	minimum elong	-3133 Oct 17 j 22:52	0°Ω23'02	2°05'14
max. Earth dist.	-3141 Sep 30 j 07:49	12° $\mathring{\text{M}}$ 56'38	31.30274 AU	max. Earth dist.	-3133 Oct 17 j 15:11	0°Ω22'18	31.27414 AU
retrograde	-3140 Jan 11 j 07:18	15° $\mathring{\text{M}}$ 25'19		retrograde	-3132 Jan 29 j 00:13	2°Ω51'17	
opposition	-3140 Mar 30 j 08:21	14° $\mathring{\text{M}}$ 03'15	2°18'04	opposition	-3132 Apr 17 j 13:55	1°Ω28'47	2°13'06
min. Earth dist.	-3140 Mar 30 j 22:20	14° $\mathring{\text{M}}$ 02'18	29.30269 AU	min. Earth dist.	-3132 Apr 17 j 21:01	1°Ω28'18	29.27447 AU
direct	-3140 Jun 19 j 14:00	12° $\mathring{\text{M}}$ 39'07		direct	-3132 Jul 07 j 09:16	0°Ω05'04	
conjunction	-3140 Oct 02 j 07:30	15° $\mathring{\text{M}}$ 08'47	2°09'18	conjunction	-3132 Oct 19 j 08:01	2°Ω34'01	2°03'55
minimum elong	-3140 Oct 02 j 07:30	15° $\mathring{\text{M}}$ 08'47	2°09'20	minimum elong	-3132 Oct 19 j 08:01	2°Ω34'01	2°03'54
max. Earth dist.	-3140 Oct 01 j 16:49	15° $\mathring{\text{M}}$ 07'24	31.29915 AU	max. Earth dist.	-3132 Oct 19 j 01:53	2°Ω33'26	31.27177 AU

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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.

retrograde	-3131 Jan 30 j 10:35	5° <u>♁</u> 02'25		direct	-3123 Jul 27 j 16:46	19° <u>♁</u> 45'29	
opposition	-3131 Apr 20 j 02:49	3° <u>♁</u> 39'54	2°11'36				
min. Earth dist.	-3131 Apr 20 j 08:36	3° <u>♁</u> 39'30	29.27163 AU	conjunction	-3123 Nov 07 j 17:52	22° <u>♁</u> 13'31	1°44'23
direct	-3131 Jul 09 j 22:19	2° <u>♁</u> 16'16		minimum elong	-3123 Nov 07 j 17:52	22° <u>♁</u> 13'31	1°44'21
				max. Earth dist.	-3123 Nov 07 j 19:44	22° <u>♁</u> 13'42	31.21142 AU
conjunction	-3131 Oct 21 j 17:00	4° <u>♁</u> 45'08	2°02'25	retrograde	-3122 Feb 19 j 16:43	24° <u>♁</u> 43'05	
minimum elong	-3131 Oct 21 j 17:00	4° <u>♁</u> 45'08	2°02'25	opposition	-3122 May 10 j 23:53	23° <u>♁</u> 19'48	1°49'57
max. Earth dist.	-3131 Oct 21 j 10:45	4° <u>♁</u> 44'33	31.26854 AU	min. Earth dist.	-3122 May 10 j 21:21	23° <u>♁</u> 19'58	29.20936 AU
retrograde	-3130 Feb 01 j 22:29	7° <u>♁</u> 13'43		direct	-3122 Jul 30 j 05:54	21° <u>♁</u> 56'25	
opposition	-3130 Apr 22 j 15:53	5° <u>♁</u> 51'09	2°09'54				
min. Earth dist.	-3130 Apr 22 j 21:11	5° <u>♁</u> 50'47	29.26794 AU	conjunction	-3122 Nov 10 j 02:53	24° <u>♁</u> 24'23	1°41'25
direct	-3130 Jul 12 j 08:41	4° <u>♁</u> 27'35		minimum elong	-3122 Nov 10 j 02:53	24° <u>♁</u> 24'23	1°41'23
				max. Earth dist.	-3122 Nov 10 j 04:58	24° <u>♁</u> 24'35	31.20567 AU
conjunction	-3130 Oct 24 j 02:18	6° <u>♁</u> 56'22	2°00'44	retrograde	-3121 Feb 22 j 04:49	26° <u>♁</u> 54'07	
minimum elong	-3130 Oct 24 j 02:19	6° <u>♁</u> 56'22	2°00'43	opposition	-3121 May 13 j 12:50	25° <u>♁</u> 30'47	1°46'42
max. Earth dist.	-3130 Oct 23 j 21:44	6° <u>♁</u> 55'56	31.26422 AU	min. Earth dist.	-3121 May 13 j 09:28	25° <u>♁</u> 31'01	29.20406 AU
retrograde	-3129 Feb 04 j 07:43	9° <u>♁</u> 25'05		direct	-3121 Aug 01 j 15:51	24° <u>♁</u> 07'28	
opposition	-3129 Apr 25 j 04:53	8° <u>♁</u> 02'28	2°08'01				
min. Earth dist.	-3129 Apr 25 j 09:37	8° <u>♁</u> 02'09	29.26287 AU	conjunction	-3121 Nov 12 j 12:05	26° <u>♁</u> 35'23	1°38'18
direct	-3129 Jul 14 j 20:53	6° <u>♁</u> 38'57		minimum elong	-3121 Nov 12 j 12:05	26° <u>♁</u> 35'23	1°38'16
				max. Earth dist.	-3121 Nov 12 j 16:16	26° <u>♁</u> 35'47	31.20068 AU
conjunction	-3129 Oct 26 j 11:25	9° <u>♁</u> 07'38	1°58'54	retrograde	-3120 Feb 24 j 14:34	29° <u>♁</u> 05'18	
minimum elong	-3129 Oct 26 j 11:26	9° <u>♁</u> 07'38	1°58'53	opposition	-3120 May 15 j 01:53	27° <u>♁</u> 41'56	1°43'17
max. Earth dist.	-3129 Oct 26 j 06:24	9° <u>♁</u> 07'10	31.25855 AU	min. Earth dist.	-3120 May 14 j 21:33	27° <u>♁</u> 42'14	29.19912 AU
retrograde	-3128 Feb 06 j 20:02	11° <u>♁</u> 36'29		direct	-3120 Aug 03 j 03:56	26° <u>♁</u> 18'43	
opposition	-3128 Apr 26 j 17:53	10° <u>♁</u> 13'47	2°05'58				
min. Earth dist.	-3128 Apr 26 j 21:27	10° <u>♁</u> 13'33	29.25646 AU	conjunction	-3120 Nov 13 j 21:08	28° <u>♁</u> 46'35	1°35'02
direct	-3128 Jul 16 j 06:41	8° <u>♁</u> 50'18		minimum elong	-3120 Nov 13 j 21:08	28° <u>♁</u> 46'35	1°34'59
				max. Earth dist.	-3120 Nov 14 j 01:18	28° <u>♁</u> 46'59	31.19593 AU
conjunction	-3128 Oct 27 j 20:41	11° <u>♁</u> 18'53	1°56'53				
minimum elong	-3128 Oct 27 j 20:41	11° <u>♁</u> 18'53	1°56'51	retrograde	-3119 Feb 26 j 03:24	1° <u>♁</u> 16'42	
max. Earth dist.	-3128 Oct 27 j 17:09	11° <u>♁</u> 18'33	31.25140 AU				
retrograde	-3127 Feb 08 j 06:11	13° <u>♁</u> 47'51		opposition	-3119 May 17 j 11:38	30° <u>R</u> <u>♁</u>	
opposition	-3127 Apr 29 j 06:56	12° <u>♁</u> 25'03	2°03'43	min. Earth dist.	-3119 May 17 j 14:57	29° <u>♁</u> 53'18	1°39'43
min. Earth dist.	-3127 Apr 29 j 10:35	12° <u>♁</u> 24'48	29.24862 AU	direct	-3119 May 17 j 09:12	29° <u>♁</u> 53'41	29.19431 AU
direct	-3127 Jul 18 j 18:14	11° <u>♁</u> 01'34					
				direct	-3119 Aug 05 j 13:31	28° <u>♁</u> 30'09	
conjunction	-3127 Oct 30 j 05:46	13° <u>♁</u> 30'02	1°54'42	conjunction	-3119 Oct 21 j 02:03	0° <u>♁</u>	
minimum elong	-3127 Oct 30 j 05:46	13° <u>♁</u> 30'02	1°54'41	minimum elong	-3119 Nov 16 j 06:30	0° <u>♁</u> 58'00	1°31'37
max. Earth dist.	-3127 Oct 30 j 02:30	13° <u>♁</u> 29'43	31.24326 AU	maximum elong	-3119 Nov 16 j 06:30	0° <u>♁</u> 58'00	1°31'35
retrograde	-3126 Feb 10 j 18:55	15° <u>♁</u> 59'07		max. Earth dist.	-3119 Nov 16 j 12:20	0° <u>♁</u> 58'33	31.19095 AU
opposition	-3126 May 01 j 19:55	14° <u>♁</u> 36'12	2°01'19	retrograde	-3118 Feb 28 j 14:22	3° <u>♁</u> 28'18	
min. Earth dist.	-3126 May 01 j 21:46	14° <u>♁</u> 36'04	29.24006 AU	opposition	-3118 May 20 j 04:12	2° <u>♁</u> 04'53	1°36'00
direct	-3126 Jul 21 j 05:59	13° <u>♁</u> 12'42		min. Earth dist.	-3118 May 19 j 22:26	2° <u>♁</u> 05'16	29.18901 AU
				direct	-3118 Aug 08 j 00:27	0° <u>♁</u> 41'49	
conjunction	-3126 Nov 01 j 14:47	15° <u>♁</u> 41'03	1°52'22				
minimum elong	-3126 Nov 01 j 14:47	15° <u>♁</u> 41'03	1°52'19	conjunction	-3118 Nov 18 j 15:50	3° <u>♁</u> 09'36	1°28'05
max. Earth dist.	-3126 Nov 01 j 12:45	15° <u>♁</u> 40'51	31.23450 AU	minimum elong	-3118 Nov 18 j 15:51	3° <u>♁</u> 09'36	1°28'01
retrograde	-3125 Feb 13 j 06:42	18° <u>♁</u> 10'14		max. Earth dist.	-3118 Nov 18 j 22:00	3° <u>♁</u> 10'11	31.18539 AU
opposition	-3125 May 04 j 09:02	16° <u>♁</u> 47'12	1°58'43	retrograde	-3117 Mar 03 j 03:51	5° <u>♁</u> 40'06	
min. Earth dist.	-3125 May 04 j 10:55	16° <u>♁</u> 47'04	29.23130 AU	opposition	-3117 May 22 j 17:20	4° <u>♁</u> 16'39	1°32'09
direct	-3125 Jul 23 j 16:56	15° <u>♁</u> 23'43		min. Earth dist.	-3117 May 22 j 09:58	4° <u>♁</u> 17'09	29.18286 AU
				direct	-3117 Aug 10 j 11:19	2° <u>♁</u> 53'38	
conjunction	-3125 Nov 03 j 23:51	17° <u>♁</u> 51'56	1°49'52				
minimum elong	-3125 Nov 03 j 23:51	17° <u>♁</u> 51'56	1°49'50	conjunction	-3117 Nov 21 j 01:24	5° <u>♁</u> 21'24	1°24'24
max. Earth dist.	-3125 Nov 03 j 23:00	17° <u>♁</u> 51'51	31.22599 AU	minimum elong	-3117 Nov 21 j 01:24	5° <u>♁</u> 21'24	1°24'21
retrograde	-3124 Feb 15 j 17:55	20° <u>♁</u> 21'13		max. Earth dist.	-3117 Nov 21 j 08:14	5° <u>♁</u> 22'03	31.17857 AU
opposition	-3124 May 05 j 21:46	18° <u>♁</u> 58'05	1°55'58	retrograde	-3116 Mar 04 j 16:21	7° <u>♁</u> 52'04	
min. Earth dist.	-3124 May 05 j 21:28	18° <u>♁</u> 58'06	29.22300 AU	opposition	-3116 May 24 j 06:31	6° <u>♁</u> 28'33	1°28'09
direct	-3124 Jul 25 j 05:17	17° <u>♁</u> 34'36		min. Earth dist.	-3116 May 23 j 23:36	6° <u>♁</u> 29'01	29.17539 AU
				direct	-3116 Aug 11 j 21:17	5° <u>♁</u> 05'35	
conjunction	-3124 Nov 05 j 08:51	20° <u>♁</u> 02'44	1°47'12				
minimum elong	-3124 Nov 05 j 08:51	20° <u>♁</u> 02'44	1°47'09	conjunction	-3116 Nov 22 j 11:02	7° <u>♁</u> 33'19	1°20'37
max. Earth dist.	-3124 Nov 05 j 08:38	20° <u>♁</u> 02'42	31.21813 AU	minimum elong	-3116 Nov 22 j 11:02	7° <u>♁</u> 33'19	1°20'32
retrograde	-3123 Feb 17 j 05:44	22° <u>♁</u> 32'09		max. Earth dist.	-3116 Nov 22 j 18:43	7° <u>♁</u> 34'02	31.17056 AU
opposition	-3123 May 08 j 10:52	21° <u>♁</u> 08'55	1°53'03	retrograde	-3115 Mar 07 j 04:49	10° <u>♁</u> 04'08	
min. Earth dist.	-3123 May 08 j 10:10	21° <u>♁</u> 08'58	29.21569 AU	opposition	-3115 May 26 j 19:43	8° <u>♁</u> 40'33	1°24'02
				min. Earth dist.	-3115 May 26 j 11:04	8° <u>♁</u> 41'08	29.16658 AU

Attention, astronomical year style is used: The year -3115 in astronomical counting style is the year 3116 BCE in historical counting style.

direct	-3115 Aug 14 j 09:31	7°M.17'36		direct	-3107 Sep 01 j 03:04	24°M.53'34	
conjunction	-3115 Nov 24 j 20:29	9°M.45'15	1°16'42	conjunction	-3107 Dec 12 j 02:06	27°M.20'51	0°41'52
minimum elong	-3115 Nov 24 j 20:29	9°M.45'15	1°16'39	minimum elong	-3107 Dec 12 j 02:06	27°M.20'51	0°41'47
max. Earth dist.	-3115 Nov 25 j 04:13	9°M.45'59	31.16119 AU	max. Earth dist.	-3107 Dec 12 j 18:07	27°M.22'22	31.09339 AU
retrograde	-3114 Mar 09 j 18:02	12°M.16'13		retrograde	-3106 Mar 27 j 17:52	29°M.53'00	
opposition	-3114 May 29 j 09:03	10°M.52'32	1°19'47	opposition	-3106 Jun 16 j 17:17	28°M.28'47	0°42'10
min. Earth dist.	-3114 May 29 j 00:34	10°M.53'07	29.15672 AU	min. Earth dist.	-3106 Jun 16 j 00:37	28°M.29'55	29.09035 AU
direct	-3114 Aug 16 j 21:15	9°M.29'36		direct	-3106 Sep 03 j 14:53	27°M.06'02	
conjunction	-3114 Nov 27 j 06:10	11°M.57'11	1°12'41	conjunction	-3106 Dec 14 j 12:14	29°M.33'19	0°37'08
minimum elong	-3114 Nov 27 j 06:10	11°M.57'11	1°12'36	minimum elong	-3106 Dec 14 j 12:14	29°M.33'19	0°37'03
max. Earth dist.	-3114 Nov 27 j 15:37	11°M.58'04	31.15104 AU	max. Earth dist.	-3106 Dec 15 j 04:08	29°M.34'49	31.08669 AU
retrograde	-3113 Mar 12 j 06:08	14°M.28'16			-3106 Dec 26 j 06:53	0°Z	
opposition	-3113 May 31 j 22:01	13°M.04'29	1°15'26	retrograde	-3105 Mar 30 j 07:56	2°Z05'38	
min. Earth dist.	-3113 May 31 j 12:09	13°M.05'09	29.14625 AU	opposition	-3105 Jun 19 j 06:19	0°Z41'22	0°37'05
direct	-3113 Aug 19 j 10:42	11°M.41'32		min. Earth dist.	-3105 Jun 18 j 14:05	0°Z42'28	29.08337 AU
conjunction	-3113 Nov 29 j 15:39	14°M.09'02	1°08'33		-3105 Jul 15 j 18:01	30°RM	
minimum elong	-3113 Nov 29 j 15:40	14°M.09'02	1°08'29	direct	-3105 Sep 06 j 01:25	29°M.18'39	
max. Earth dist.	-3113 Nov 30 j 01:00	14°M.09'55	31.14060 AU		-3105 Oct 26 j 01:26	0°Z	
	-3113 Dec 22 j 11:19	15°M		conjunction	-3105 Dec 16 j 22:39	1°Z45'56	0°32'22
retrograde	-3112 Mar 13 j 18:10	16°M.40'15		minimum elong	-3105 Dec 16 j 22:39	1°Z45'56	0°32'17
opposition	-3112 Jun 02 j 11:06	15°M.16'22	1°10'58	max. Earth dist.	-3105 Dec 17 j 15:58	1°Z47'34	31.07923 AU
min. Earth dist.	-3112 Jun 02 j 00:37	15°M.17'04	29.13599 AU	retrograde	-3104 Mar 31 j 20:57	4°Z18'24	
	-3112 Jun 12 j 14:06	15°RM		opposition	-3104 Jun 20 j 19:21	2°Z54'06	0°31'57
direct	-3112 Aug 20 j 21:03	13°M.53'25		min. Earth dist.	-3104 Jun 20 j 02:05	2°Z55'16	29.07525 AU
	-3112 Oct 24 j 11:15	15°M		direct	-3104 Sep 07 j 14:09	1°Z31'24	
conjunction	-3112 Dec 01 j 01:13	16°M.20'51	1°04'20	conjunction	-3104 Dec 18 j 08:53	3°Z58'41	0°27'32
minimum elong	-3112 Dec 01 j 01:13	16°M.20'51	1°04'14	minimum elong	-3104 Dec 18 j 08:53	3°Z58'41	0°27'26
max. Earth dist.	-3112 Dec 01 j 12:39	16°M.21'56	31.13056 AU	max. Earth dist.	-3104 Dec 19 j 01:36	4°Z00'15	31.07052 AU
retrograde	-3111 Mar 16 j 04:00	18°M.52'11		retrograde	-3103 Apr 03 j 10:26	6°Z31'18	
opposition	-3111 Jun 05 j 00:10	17°M.28'13	1°06'24	opposition	-3103 Jun 23 j 08:34	5°Z06'55	0°26'45
min. Earth dist.	-3111 Jun 04 j 12:37	17°M.29'00	29.12629 AU	min. Earth dist.	-3103 Jun 22 j 15:16	5°Z08'06	29.06592 AU
direct	-3111 Aug 23 j 10:07	16°M.05'16		direct	-3103 Sep 10 j 00:39	3°Z44'13	
conjunction	-3111 Dec 03 j 10:48	18°M.32'39	1°00'00	conjunction	-3103 Dec 20 j 19:29	6°Z11'29	0°22'40
minimum elong	-3111 Dec 03 j 10:49	18°M.32'39	0°59'56	minimum elong	-3103 Dec 20 j 19:29	6°Z11'29	0°22'35
max. Earth dist.	-3111 Dec 03 j 22:21	18°M.33'45	31.12148 AU	max. Earth dist.	-3103 Dec 21 j 13:35	6°Z13'12	31.06050 AU
retrograde	-3110 Mar 18 j 17:17	21°M.04'09		retrograde	-3102 Apr 05 j 22:07	8°Z44'13	
opposition	-3110 Jun 07 j 13:09	19°M.40'05	1°01'44	opposition	-3102 Jun 25 j 21:36	7°Z19'46	0°21'32
min. Earth dist.	-3110 Jun 07 j 00:04	19°M.40'59	29.11775 AU	min. Earth dist.	-3102 Jun 25 j 03:55	7°Z20'58	29.05524 AU
direct	-3110 Aug 25 j 20:29	18°M.17'10		direct	-3102 Sep 12 j 13:58	5°Z57'03	
conjunction	-3110 Dec 05 j 20:31	20°M.44'30	0°55'36	conjunction	-3102 Dec 23 j 05:58	8°Z24'17	0°17'46
minimum elong	-3110 Dec 05 j 20:31	20°M.44'30	0°55'30	minimum elong	-3102 Dec 23 j 05:58	8°Z24'17	0°17'40
max. Earth dist.	-3110 Dec 06 j 09:48	20°M.45'46	31.11339 AU	max. Earth dist.	-3102 Dec 23 j 23:35	8°Z25'57	31.04943 AU
retrograde	-3109 Mar 21 j 03:40	23°M.16'09		retrograde	-3101 Apr 08 j 12:10	10°Z57'08	
opposition	-3109 Jun 10 j 02:12	21°M.52'03	0°56'58	opposition	-3101 Jun 28 j 10:33	9°Z32'35	0°16'17
min. Earth dist.	-3109 Jun 09 j 12:51	21°M.52'57	29.11008 AU	min. Earth dist.	-3101 Jun 27 j 16:03	9°Z33'51	29.04378 AU
direct	-3109 Aug 28 j 07:41	20°M.29'10		direct	-3101 Sep 15 j 01:09	8°Z09'51	
conjunction	-3109 Dec 08 j 06:17	22°M.56'28	0°51'06	conjunction	-3101 Dec 25 j 16:31	10°Z37'03	0°12'51
minimum elong	-3109 Dec 08 j 06:17	22°M.56'28	0°51'01	minimum elong	-3101 Dec 25 j 16:31	10°Z37'03	0°12'45
max. Earth dist.	-3109 Dec 08 j 20:12	22°M.57'47	31.10628 AU	behind sun begin	-3101 Dec 25 j 12:26	10°Z36'41	
retrograde	-3108 Mar 22 j 16:18	25°M.28'16		behind sun end	-3101 Dec 25 j 20:37	10°Z37'25	
opposition	-3108 Jun 11 j 15:03	24°M.04'07	0°52'07	max. Earth dist.	-3101 Dec 26 j 11:20	10°Z38'50	31.03765 AU
min. Earth dist.	-3108 Jun 10 j 23:54	24°M.05'09	29.10324 AU	retrograde	-3100 Apr 09 j 22:29	13°Z10'01	
direct	-3108 Aug 29 j 17:54	22°M.41'17		opposition	-3100 Jun 29 j 23:25	11°Z45'22	0°11'00
conjunction	-3108 Dec 09 j 16:09	25°M.08'34	0°46'31	min. Earth dist.	-3100 Jun 29 j 05:02	11°Z46'38	29.03197 AU
minimum elong	-3108 Dec 09 j 16:09	25°M.08'34	0°46'25	direct	-3100 Sep 16 j 12:51	10°Z22'36	
max. Earth dist.	-3108 Dec 10 j 06:58	25°M.09'58	31.09967 AU	conjunction	-3100 Dec 27 j 03:05	12°Z49'47	0°07'56
retrograde	-3107 Mar 25 j 04:33	27°M.40'33		minimum elong	-3100 Dec 27 j 03:05	12°Z49'47	0°07'49
opposition	-3107 Jun 14 j 04:14	26°M.16'22	0°47'11	behind sun begin	-3100 Dec 26 j 21:17	12°Z49'15	
min. Earth dist.	-3107 Jun 13 j 13:18	26°M.17'23	29.09682 AU	behind sun end	-3100 Dec 27 j 08:53	12°Z50'18	

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

max. Earth dist.	-3100 Dec 27 j 22:23	12° 2 51'36	31.02611 AU	retrograde	-3092 Apr 28 j 09:38	0° 3 55'27	
retrograde	-3099 Apr 12 j 11:03	15° 2 22'51			-3092 Jun 29 j 23:10	30° R 2	
opposition	-3099 Jul 02 j 12:13	13° 2 58'07	0°05'42	min. Earth dist.	-3092 Jul 17 j 05:40	29° 2 32'05	28.96571 AU
min. Earth dist.	-3099 Jul 01 j 16:15	13° 2 59'29	29.02074 AU	opposition	-3092 Jul 18 j 04:51	29° 2 30'29	0°-31'-15
direct	-3099 Sep 18 j 23:36	12° 2 35'19		direct	-3092 Oct 04 j 04:33	28° 2 07'44	
					-3092 Dec 29 j 03:39	0° 3	
conjunction	-3099 Dec 29 j 13:37	15° 2 02'30	0°02'59				
minimum elong	-3099 Dec 29 j 13:37	15° 2 02'30	0°02'53	conjunction	-3091 Jan 13 j 19:05	0° 3 35'14	0°-31'-36
behind sun begin	-3099 Dec 29 j 07:12	15° 2 01'55		minimum elong	-3091 Jan 13 j 19:05	0° 3 35'14	0°31'44
behind sun end	-3099 Dec 29 j 20:02	15° 2 03'05		max. Earth dist.	-3091 Jan 14 j 19:02	0° 3 37'30	30.96149 AU
max. Earth dist.	-3099 Dec 30 j 09:39	15° 2 04'23	31.01518 AU	retrograde	-3091 Apr 30 j 21:03	3° 3 09'21	
retrograde	-3098 Apr 14 j 22:55	17° 2 35'42		opposition	-3091 Jul 20 j 17:34	1° 3 44'21	0°-36'-25
min. Earth dist.	-3098 Jul 04 j 05:27	16° 2 12'15	29.01037 AU	min. Earth dist.	-3091 Jul 19 j 18:58	1° 3 45'55	28.95786 AU
opposition	-3098 Jul 05 j 01:06	16° 2 10'54	0°00'24	direct	-3091 Oct 06 j 16:15	0° 3 21'35	
desc. node	-3098 Aug 01 j 17:07	15° 2 27'34					
direct	-3098 Sep 21 j 08:50	14° 2 48'05		conjunction	-3090 Jan 16 j 06:44	2° 3 49'06	0°-36'-25
				minimum elong	-3090 Jan 16 j 06:44	2° 3 49'06	0°36'32
conjunction	-3097 Jan 01 j 00:27	17° 2 15'16	0°-2'-6	max. Earth dist.	-3090 Jan 17 j 06:29	2° 3 51'21	30.95320 AU
minimum elong	-3097 Jan 01 j 00:26	17° 2 15'16	0°02'13	retrograde	-3090 May 03 j 10:38	5° 3 23'18	
behind sun begin	-3098 Dec 31 j 18:00	17° 2 14'41		min. Earth dist.	-3090 Jul 22 j 06:44	3° 3 59'52	28.94903 AU
behind sun end	-3097 Jan 01 j 06:52	17° 2 15'51		opposition	-3090 Jul 23 j 06:10	3° 3 58'15	0°-41'-32
max. Earth dist.	-3097 Jan 01 j 21:38	17° 2 17'16	31.00540 AU	direct	-3090 Oct 09 j 03:52	2° 3 35'27	
retrograde	-3097 Apr 17 j 11:56	19° 2 48'35					
opposition	-3097 Jul 07 j 13:35	18° 2 23'44	0°-4'-53	conjunction	-3089 Jan 18 j 18:30	5° 3 03'00	0°-41'-10
min. Earth dist.	-3097 Jul 06 j 16:11	18° 2 25'13	29.00112 AU	minimum elong	-3089 Jan 18 j 18:30	5° 3 03'00	0°41'17
direct	-3097 Sep 23 j 20:28	17° 2 00'55		max. Earth dist.	-3089 Jan 19 j 18:09	5° 3 05'14	30.94377 AU
				retrograde	-3089 May 05 j 22:47	7° 3 37'15	
conjunction	-3096 Jan 03 j 11:09	19° 2 28'09	0°-7'-3	opposition	-3089 Jul 25 j 18:38	6° 3 12'08	0°-46'-35
minimum elong	-3096 Jan 03 j 11:09	19° 2 28'09	0°07'10	min. Earth dist.	-3089 Jul 24 j 20:17	6° 3 13'40	28.93928 AU
behind sun begin	-3096 Jan 03 j 05:12	19° 2 27'36		direct	-3089 Oct 11 j 13:59	4° 3 49'16	
behind sun end	-3096 Jan 03 j 17:06	19° 2 28'41					
max. Earth dist.	-3096 Jan 04 j 08:17	19° 2 30'08	30.99667 AU	conjunction	-3088 Jan 21 j 06:19	7° 3 16'49	0°-45'-52
retrograde	-3096 Apr 19 j 01:50	22° 2 01'36		minimum elong	-3088 Jan 21 j 06:19	7° 3 16'49	0°45'59
min. Earth dist.	-3096 Jul 08 j 05:10	20° 2 38'10	28.99302 AU	max. Earth dist.	-3088 Jan 22 j 06:34	7° 3 19'06	30.93385 AU
opposition	-3096 Jul 09 j 02:21	20° 2 36'43	0°-10'-12	retrograde	-3088 May 07 j 10:58	9° 3 51'07	
direct	-3096 Sep 25 j 06:21	19° 2 13'54		min. Earth dist.	-3088 Jul 26 j 07:28	8° 3 27'33	28.92925 AU
				opposition	-3088 Jul 27 j 07:00	8° 3 25'55	0°-51'-34
conjunction	-3095 Jan 04 j 22:00	21° 2 41'11	0°-12'00	direct	-3088 Oct 13 j 02:08	7° 3 02'59	
minimum elong	-3095 Jan 04 j 22:00	21° 2 41'11	0°12'07				
behind sun begin	-3095 Jan 04 j 17:36	21° 2 40'47		conjunction	-3087 Jan 22 j 17:54	9° 3 30'33	0°-50'-30
behind sun end	-3095 Jan 05 j 02:24	21° 2 41'34		minimum elong	-3087 Jan 22 j 17:53	9° 3 30'33	0°50'37
max. Earth dist.	-3095 Jan 05 j 20:53	21° 2 43'20	30.98906 AU	max. Earth dist.	-3087 Jan 23 j 17:40	9° 3 32'47	30.92383 AU
retrograde	-3095 Apr 21 j 14:58	24° 2 14'46		retrograde	-3087 May 09 j 23:29	12° 3 04'54	
opposition	-3095 Jul 11 j 15:00	22° 2 49'52	0°-15'-30	opposition	-3087 Jul 29 j 19:28	10° 3 39'37	0°-56'-29
min. Earth dist.	-3095 Jul 10 j 16:32	22° 2 51'25	28.98578 AU	min. Earth dist.	-3087 Jul 28 j 20:34	10° 3 41'12	28.91960 AU
direct	-3095 Sep 27 j 18:13	21° 2 27'04		direct	-3087 Oct 15 j 11:56	9° 3 16'36	
conjunction	-3094 Jan 07 j 08:57	23° 2 54'24	0°-16'-56	conjunction	-3086 Jan 25 j 05:52	11° 3 44'12	0°-55'-3
minimum elong	-3094 Jan 07 j 08:56	23° 2 54'24	0°17'02	minimum elong	-3086 Jan 25 j 05:52	11° 3 44'12	0°55'09
max. Earth dist.	-3094 Jan 08 j 07:23	23° 2 56'31	30.98219 AU	max. Earth dist.	-3086 Jan 26 j 07:01	11° 3 46'34	30.91450 AU
retrograde	-3094 Apr 24 j 05:16	26° 2 28'08		retrograde	-3086 May 12 j 12:02	14° 3 18'35	
min. Earth dist.	-3094 Jul 13 j 05:12	25° 2 04'45	28.97924 AU	min. Earth dist.	-3086 Jul 31 j 07:43	12° 3 54'54	28.91077 AU
opposition	-3094 Jul 14 j 03:38	25° 2 03'13	0°-20'-46	opposition	-3086 Aug 01 j 07:34	12° 3 53'14	-1°-1'-18
direct	-3094 Sep 30 j 04:04	23° 2 40'26		direct	-3086 Oct 17 j 23:36	11° 3 30'10	
conjunction	-3093 Jan 09 j 20:15	26° 2 07'49	0°-21'-51	conjunction	-3085 Jan 27 j 17:45	13° 3 57'49	0°-59'-31
minimum elong	-3093 Jan 09 j 20:15	26° 2 07'49	0°21'59	minimum elong	-3085 Jan 27 j 17:45	13° 3 57'49	0°59'38
max. Earth dist.	-3093 Jan 10 j 20:07	26° 2 10'05	30.97565 AU	max. Earth dist.	-3085 Jan 28 j 18:13	14° 3 00'07	30.90621 AU
retrograde	-3093 Apr 26 j 18:43	28° 2 41'42		retrograde	-3085 May 15 j 02:14	16° 3 32'16	
opposition	-3093 Jul 16 j 16:15	27° 2 16'46	0°-26'-2	opposition	-3085 Aug 03 j 19:49	15° 3 06'52	-1°-6'-2
min. Earth dist.	-3093 Jul 15 j 17:34	27° 2 18'19	28.97264 AU	min. Earth dist.	-3085 Aug 02 j 20:05	15° 3 08'31	28.90325 AU
direct	-3093 Oct 02 j 17:21	25° 2 54'00		direct	-3085 Oct 20 j 09:46	13° 3 43'45	
conjunction	-3092 Jan 12 j 07:30	28° 2 21'27	0°-26'-45	conjunction	-3084 Jan 30 j 05:45	16° 3 11'27	-1°-3'-54
minimum elong	-3092 Jan 12 j 07:30	28° 2 21'27	0°26'52	minimum elong	-3084 Jan 30 j 05:45	16° 3 11'27	1°04'00
max. Earth dist.	-3092 Jan 13 j 06:44	28° 2 23'39	30.96893 AU	max. Earth dist.	-3084 Jan 31 j 07:39	16° 3 13'54	30.89921 AU
	-3092 Feb 28 j 09:48	0° 3		retrograde	-3084 May 16 j 15:26	18° 3 45'58	

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Attention, astronomical year style is used: The year -3084 in astronomical counting style is the year 3085 BCE in historical counting style.

min. Earth dist.	-3084 Aug 04 j 07:50	17°☾22'13	28.89696 AU	min. Earth dist.	-3076 Aug 22 j 09:53	5°☾17'46	28.86237 AU
opposition	-3084 Aug 05 j 07:56	17°☾20'32	-1°-10'-41	opposition	-3076 Aug 23 j 08:13	5°☾16'12	-1°-43'-29
direct	-3084 Oct 21 j 22:33	15°☾57'25		direct	-3076 Nov 08 j 13:52	3°☾52'56	
conjunction	-3083 Jan 31 j 17:49	18°☾25'11	-1°-8'-11	conjunction	-3075 Feb 19 j 00:01	6°☾21'26	-1°-38'-23
minimum elong	-3083 Jan 31 j 17:49	18°☾25'11	1°08'18	minimum elong	-3075 Feb 19 j 00:01	6°☾21'26	1°38'29
max. Earth dist.	-3083 Feb 01 j 19:07	18°☾27'34	30.89368 AU	max. Earth dist.	-3075 Feb 20 j 00:43	6°☾23'46	30.85809 AU
retrograde	-3083 May 19 j 06:15	20°☾59'46		retrograde	-3075 Jun 06 j 15:22	8°☾56'23	
opposition	-3083 Aug 07 j 20:04	19°☾34'21	-1°-15'-13	opposition	-3075 Aug 25 j 19:57	7°☾30'59	-1°-46'-57
min. Earth dist.	-3083 Aug 06 j 19:23	19°☾36'04	28.89218 AU	min. Earth dist.	-3075 Aug 24 j 21:53	7°☾32'32	28.85616 AU
direct	-3083 Oct 24 j 09:24	18°☾11'13		direct	-3075 Nov 11 j 02:49	6°☾07'38	
conjunction	-3082 Feb 03 j 06:05	20°☾39'04	-1°-12'-23	conjunction	-3074 Feb 21 j 13:10	8°☾36'12	-1°-41'-32
minimum elong	-3082 Feb 03 j 06:05	20°☾39'04	1°12'29	minimum elong	-3074 Feb 21 j 13:09	8°☾36'12	1°41'39
max. Earth dist.	-3082 Feb 04 j 08:17	20°☾41'33	30.88933 AU	max. Earth dist.	-3074 Feb 22 j 12:38	8°☾38'25	30.85210 AU
retrograde	-3082 May 21 j 18:47	23°☾13'44		retrograde	-3074 Jun 09 j 05:37	11°☾11'08	
min. Earth dist.	-3082 Aug 09 j 08:03	21°☾50'01	28.88833 AU	min. Earth dist.	-3074 Aug 27 j 09:33	9°☾47'14	28.85055 AU
opposition	-3082 Aug 10 j 08:12	21°☾48'20	-1°-19'-38	opposition	-3074 Aug 28 j 07:40	9°☾45'41	-1°-50'-15
direct	-3082 Oct 26 j 20:56	20°☾25'13		direct	-3074 Nov 13 j 13:57	8°☾22'15	
conjunction	-3081 Feb 05 j 18:33	22°☾53'10	-1°-16'-28	conjunction	-3073 Feb 24 j 02:27	10°☾50'54	-1°-44'-33
minimum elong	-3081 Feb 05 j 18:33	22°☾53'10	1°16'35	minimum elong	-3073 Feb 24 j 02:27	10°☾50'54	1°44'39
max. Earth dist.	-3081 Feb 06 j 20:32	22°☾55'38	30.88590 AU	max. Earth dist.	-3073 Feb 25 j 02:26	10°☾53'09	30.84671 AU
retrograde	-3081 May 24 j 09:38	25°☾27'55		retrograde	-3073 Jun 11 j 18:20	13°☾25'48	
opposition	-3081 Aug 12 j 20:07	24°☾02'33	-1°-23'-57	opposition	-3073 Aug 30 j 19:14	12°☾00'20	-1°-53'-23
min. Earth dist.	-3081 Aug 11 j 19:14	24°☾04'17	28.88517 AU	min. Earth dist.	-3073 Aug 29 j 21:52	12°☾01'50	28.84575 AU
direct	-3081 Oct 29 j 08:24	22°☾39'26		direct	-3073 Nov 16 j 02:08	10°☾36'50	
conjunction	-3080 Feb 08 j 07:06	25°☾07'31	-1°-20'-26	conjunction	-3072 Feb 26 j 15:42	13°☾05'33	-1°-47'-24
minimum elong	-3080 Feb 08 j 07:05	25°☾07'31	1°20'33	minimum elong	-3072 Feb 26 j 15:42	13°☾05'33	1°47'29
max. Earth dist.	-3080 Feb 09 j 08:58	25°☾09'57	30.88271 AU	max. Earth dist.	-3072 Feb 27 j 15:13	13°☾07'46	30.84258 AU
retrograde	-3080 May 25 j 22:34	27°☾42'21		retrograde	-3072 Apr 23 j 16:34	15°☾	
min. Earth dist.	-3080 Aug 13 j 08:37	26°☾18'39	28.88206 AU	retrograde	-3072 Jun 13 j 09:37	15°☾40'25	
opposition	-3080 Aug 14 j 08:15	26°☾17'00	-1°-28'-8	retrograde	-3072 Aug 04 j 03:33	15°☾	
direct	-3080 Oct 30 j 18:19	24°☾53'55		min. Earth dist.	-3072 Aug 31 j 08:42	14°☾16'30	28.84233 AU
conjunction	-3079 Feb 09 j 19:48	27°☾22'05	-1°-24'-17	opposition	-3072 Sep 01 j 06:46	14°☾14'56	-1°-56'-20
minimum elong	-3079 Feb 09 j 19:48	27°☾22'05	1°24'24	direct	-3072 Nov 17 j 14:47	12°☾51'24	
max. Earth dist.	-3079 Feb 10 j 21:53	27°☾24'33	30.87943 AU	direct	-3071 Feb 19 j 05:27	15°☾	
retrograde	-3079 May 28 j 11:23	29°☾56'59		conjunction	-3071 Feb 28 j 04:57	15°☾20'12	-1°-50'-5
opposition	-3079 Aug 16 j 20:16	28°☾31'40	-1°-32'-11	minimum elong	-3071 Feb 28 j 04:57	15°☾20'12	1°50'10
min. Earth dist.	-3079 Aug 15 j 19:59	28°☾33'22	28.87846 AU	max. Earth dist.	-3071 Mar 01 j 04:24	15°☾22'24	30.83971 AU
direct	-3079 Nov 02 j 06:20	27°☾08'34		retrograde	-3071 Jun 15 j 21:56	17°☾55'04	
conjunction	-3078 Feb 12 j 08:45	29°☾36'51	-1°-28'-1	opposition	-3071 Sep 03 j 18:24	16°☾29'35	-1°-59'-7
minimum elong	-3078 Feb 12 j 08:44	29°☾36'51	1°28'07	min. Earth dist.	-3071 Sep 02 j 21:31	16°☾31'03	28.84022 AU
max. Earth dist.	-3078 Feb 13 j 09:35	29°☾39'11	30.87530 AU	direct	-3071 Nov 20 j 01:47	15°☾06'00	
retrograde	-3078 Feb 22 j 15:10	0°☾		conjunction	-3070 Mar 02 j 18:30	17°☾34'53	-1°-52'-36
retrograde	-3078 May 31 j 00:08	2°☾11'48		minimum elong	-3070 Mar 02 j 18:30	17°☾34'53	1°52'41
min. Earth dist.	-3078 Aug 18 j 09:24	0°☾48'05	28.87398 AU	max. Earth dist.	-3070 Mar 03 j 18:04	17°☾37'06	30.83827 AU
opposition	-3078 Aug 19 j 08:19	0°☾46'29	-1°-36'-6	retrograde	-3070 Jun 18 j 11:15	20°☾09'43	
direct	-3078 Sep 17 j 16:24	30°☾☾		min. Earth dist.	-3070 Sep 05 j 08:08	18°☾45'48	28.83935 AU
direct	-3078 Nov 04 j 15:44	29°☾23'20		opposition	-3070 Sep 06 j 05:43	18°☾44'17	-2°-1'-43
	-3078 Dec 21 j 06:01	0°☾		direct	-3070 Nov 22 j 13:51	17°☾20'41	
conjunction	-3077 Feb 14 j 21:55	1°☾51'43	-1°-31'-37	conjunction	-3069 Mar 05 j 08:02	19°☾49'40	-1°-54'-57
minimum elong	-3077 Feb 14 j 21:55	1°☾51'43	1°31'43	minimum elong	-3069 Mar 05 j 08:02	19°☾49'40	1°55'02
max. Earth dist.	-3077 Feb 15 j 23:14	1°☾54'06	30.87027 AU	max. Earth dist.	-3069 Mar 06 j 06:33	19°☾51'47	30.83785 AU
retrograde	-3077 Jun 02 j 12:59	4°☾26'41		retrograde	-3069 Jun 21 j 00:28	22°☾24'30	
opposition	-3077 Aug 21 j 20:14	3°☾01'21	-1°-39'-52	opposition	-3069 Sep 08 j 17:18	20°☾59'06	-2°-4'-8
min. Earth dist.	-3077 Aug 20 j 21:04	3°☾02'58	28.86844 AU	min. Earth dist.	-3069 Sep 07 j 20:58	21°☾00'32	28.83944 AU
direct	-3077 Nov 07 j 03:13	1°☾38'09		direct	-3069 Nov 24 j 23:28	19°☾35'29	
conjunction	-3076 Feb 17 j 10:49	4°☾06'36	-1°-35'-4	conjunction	-3068 Mar 06 j 21:41	22°☾04'36	-1°-57'-8
minimum elong	-3076 Feb 17 j 10:48	4°☾06'36	1°35'10	minimum elong	-3068 Mar 06 j 21:40	22°☾04'36	1°57'13
max. Earth dist.	-3076 Feb 18 j 10:42	4°☾08'51	30.86435 AU	max. Earth dist.	-3068 Mar 07 j 20:45	22°☾06'46	30.83820 AU
retrograde	-3076 Jun 04 j 02:34	6°☾41'34		retrograde	-3068 Jun 22 j 13:06	24°☾39'24	

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

min. Earth dist.	-3068 Sep 09 j 08:12	23°≈15'30	28.83989 AU	opposition	-3060 Sep 27 j 22:38	11°≈14'39	-2°-17'-1
opposition	-3068 Sep 10 j 04:43	23°≈14'03	-2°-6'-22	min. Earth dist.	-3060 Sep 27 j 08:35	11°≈15'38	28.82742 AU
direct	-3068 Nov 26 j 11:01	21°≈50'26		direct	-3060 Dec 14 j 09:05	9°≈50'31	
conjunction	-3067 Mar 09 j 11:29	24°≈19'39	-1°-59'-7	conjunction	-3059 Mar 28 j 04:37	12°≈20'29	-2°-8'-21
minimum elong	-3067 Mar 09 j 11:29	24°≈19'39	1°59'12	minimum elong	-3059 Mar 28 j 04:37	12°≈20'29	2°08'23
max. Earth dist.	-3067 Mar 10 j 08:53	24°≈21'40	30.83864 AU	max. Earth dist.	-3059 Mar 28 j 20:58	12°≈22'01	30.82584 AU
retrograde	-3067 Jun 25 j 02:06	26°≈54'28		retrograde	-3059 Jul 13 j 10:37	14°≈54'39	
opposition	-3067 Sep 12 j 16:10	25°≈29'10	-2°-8'-24	opposition	-3059 Sep 30 j 09:25	13°≈29'26	-2°-17'-25
min. Earth dist.	-3067 Sep 11 j 20:52	25°≈30'31	28.84027 AU	min. Earth dist.	-3059 Sep 29 j 19:07	13°≈30'27	28.82782 AU
direct	-3067 Nov 28 j 21:15	24°≈05'30		direct	-3059 Dec 16 j 21:05	12°≈05'16	
conjunction	-3066 Mar 12 j 01:39	26°≈34'51	-2°00'-56	conjunction	-3058 Mar 30 j 18:49	14°≈35'19	-2°-8'-38
minimum elong	-3066 Mar 12 j 01:39	26°≈34'51	2°01'01	minimum elong	-3058 Mar 30 j 18:49	14°≈35'19	2°08'41
max. Earth dist.	-3066 Mar 12 j 23:18	26°≈36'53	30.83858 AU	max. Earth dist.	-3058 Mar 31 j 09:34	14°≈36'42	30.82700 AU
retrograde	-3066 Jun 27 j 14:21	29°≈09'37		retrograde	-3058 Jul 15 j 22:38	17°≈09'25	
min. Earth dist.	-3066 Sep 14 j 09:06	27°≈45'40	28.83974 AU	opposition	-3058 Oct 02 j 20:22	15°≈44'15	-2°-17'-37
opposition	-3066 Sep 15 j 03:38	27°≈44'22	-2°-10'-14	min. Earth dist.	-3058 Oct 02 j 07:01	15°≈45'12	28.82979 AU
direct	-3066 Dec 01 j 09:28	26°≈20'40		direct	-3058 Dec 19 j 07:22	14°≈20'02	
conjunction	-3065 Mar 14 j 15:42	28°≈50'07	-2°-2'-34	conjunction	-3057 Apr 02 j 09:07	16°≈50'13	-2°-8'-43
minimum elong	-3065 Mar 14 j 15:42	28°≈50'07	2°02'37	minimum elong	-3057 Apr 02 j 09:07	16°≈50'13	2°08'45
max. Earth dist.	-3065 Mar 15 j 11:20	28°≈51'58	30.83758 AU	max. Earth dist.	-3057 Apr 03 j 00:27	16°≈51'39	30.82961 AU
retrograde	-3065 Apr 15 j 20:18	0°≈		retrograde	-3057 Jul 18 j 09:56	19°≈24'13	
retrograde	-3065 Jun 30 j 04:36	1°≈24'51		opposition	-3057 Oct 05 j 07:11	17°≈59'08	-2°-17'-36
opposition	-3065 Sep 17 j 14:59	29°≈59'36	-2°-11'-52	min. Earth dist.	-3057 Oct 04 j 18:18	18°≈00'03	28.83297 AU
min. Earth dist.	-3065 Sep 16 j 21:00	0°≈00'52	28.83828 AU	direct	-3057 Dec 21 j 18:44	16°≈34'54	
direct	-3065 Sep 17 j 09:16	30°≈		conjunction	-3056 Apr 03 j 23:20	19°≈05'11	-2°-8'-36
direct	-3065 Dec 03 j 20:26	28°≈35'50		minimum elong	-3056 Apr 03 j 23:20	19°≈05'11	2°08'39
conjunction	-3064 Mar 16 j 05:53	1°≈05'24	-2°-4'00	max. Earth dist.	-3056 Apr 04 j 12:56	19°≈06'27	30.83349 AU
minimum elong	-3064 Mar 16 j 05:53	1°≈05'23	2°04'04	retrograde	-3056 Jul 19 j 23:36	21°≈39'07	
max. Earth dist.	-3064 Mar 17 j 01:22	1°≈07'13	30.83556 AU	opposition	-3056 Oct 06 j 17:57	20°≈14'07	-2°-17'-23
retrograde	-3064 Jul 01 j 17:05	3°≈40'02		min. Earth dist.	-3056 Oct 06 j 05:30	20°≈15'00	28.83732 AU
min. Earth dist.	-3064 Sep 18 j 09:43	2°≈15'58	28.83588 AU	direct	-3056 Dec 23 j 04:40	18°≈49'51	
opposition	-3064 Sep 19 j 02:21	2°≈14'48	-2°-13'-18	conjunction	-3055 Apr 06 j 13:49	21°≈20'17	-2°-8'-18
direct	-3064 Dec 05 j 08:57	0°≈50'58		minimum elong	-3055 Apr 06 j 13:49	21°≈20'17	2°08'19
conjunction	-3063 Mar 18 j 19:57	3°≈20'36	-2°-5'-15	max. Earth dist.	-3055 Apr 07 j 03:27	21°≈21'33	30.83804 AU
minimum elong	-3063 Mar 18 j 19:57	3°≈20'36	2°05'19	retrograde	-3055 Jul 22 j 11:05	23°≈54'08	
max. Earth dist.	-3063 Mar 19 j 14:07	3°≈22'18	30.83299 AU	opposition	-3055 Oct 09 j 04:49	22°≈29'12	-2°-16'-56
retrograde	-3063 Jul 04 j 07:56	5°≈55'09		min. Earth dist.	-3055 Oct 08 j 17:48	22°≈29'59	28.84192 AU
opposition	-3063 Sep 21 j 13:31	4°≈29'54	-2°-14'-32	direct	-3055 Dec 25 j 17:04	21°≈04'56	
min. Earth dist.	-3063 Sep 20 j 20:51	4°≈31'05	28.83312 AU	conjunction	-3054 Apr 09 j 04:23	23°≈35'29	-2°-7'-47
direct	-3063 Dec 07 j 22:12	3°≈05'59		minimum elong	-3054 Apr 09 j 04:23	23°≈35'29	2°07'49
conjunction	-3062 Mar 21 j 10:10	5°≈35'42	-2°-6'-19	max. Earth dist.	-3054 Apr 09 j 16:15	23°≈36'35	30.84266 AU
minimum elong	-3062 Mar 21 j 10:10	5°≈35'42	2°06'23	retrograde	-3054 Jul 25 j 01:15	26°≈09'14	
max. Earth dist.	-3062 Mar 22 j 03:44	5°≈37'21	30.83010 AU	opposition	-3054 Oct 11 j 15:30	24°≈44'23	-2°-16'-17
retrograde	-3062 Jul 06 j 19:50	8°≈10'10		min. Earth dist.	-3054 Oct 11 j 04:43	24°≈45'09	28.84630 AU
min. Earth dist.	-3062 Sep 23 j 09:39	6°≈45'58	28.83039 AU	direct	-3054 Dec 28 j 06:03	23°≈20'04	
opposition	-3062 Sep 24 j 00:35	6°≈44'54	-2°-15'-34	conjunction	-3053 Apr 11 j 19:02	25°≈50'44	-2°-7'-5
direct	-3062 Dec 10 j 09:52	5°≈20'55		minimum elong	-3053 Apr 11 j 19:02	25°≈50'44	2°07'06
conjunction	-3061 Mar 24 j 00:24	7°≈50'42	-2°-7'-11	max. Earth dist.	-3053 Apr 12 j 06:03	25°≈51'45	30.84664 AU
minimum elong	-3061 Mar 24 j 00:24	7°≈50'42	2°07'14	retrograde	-3053 Jul 27 j 13:12	28°≈24'22	
max. Earth dist.	-3061 Mar 24 j 17:33	7°≈52'19	30.82770 AU	opposition	-3053 Oct 14 j 02:27	26°≈59'34	-2°-15'-26
retrograde	-3061 Jul 09 j 09:35	10°≈25'04		min. Earth dist.	-3053 Oct 13 j 17:39	27°≈00'12	28.84990 AU
opposition	-3061 Sep 26 j 11:33	8°≈59'49	-2°-16'-24	direct	-3053 Dec 30 j 17:38	25°≈35'13	
min. Earth dist.	-3061 Sep 25 j 20:10	9°≈00'54	28.82834 AU	conjunction	-3052 Apr 13 j 09:32	28°≈05'57	-2°-6'-12
direct	-3061 Dec 12 j 22:41	7°≈35'45		minimum elong	-3052 Apr 13 j 09:33	28°≈05'57	2°06'13
conjunction	-3060 Mar 25 j 14:20	10°≈05'37	-2°-7'-52	max. Earth dist.	-3052 Apr 13 j 09:33	28°≈06'52	30.84992 AU
minimum elong	-3060 Mar 25 j 14:20	10°≈05'37	2°07'55	retrograde	-3052 Jun 09 j 14:19	0°≈	
max. Earth dist.	-3060 Mar 26 j 06:22	10°≈07'07	30.82608 AU	retrograde	-3052 Jul 29 j 03:24	0°≈39'27	
retrograde	-3060 Jul 10 j 22:44	12°≈39'53		opposition	-3052 Sep 17 j 12:15	30°≈	
				opposition	-3052 Oct 15 j 13:12	29°≈14'41	-2°-14'-23

Attention, astronomical year style is used: The year -3052 in astronomical counting style is the year 3053 BCE in historical counting style.

min. Earth dist.	-3052 Oct 15 j 04:28	29° κ 15'18	28.85267 AU	conjunction	-3043 May 04 j 19:36	18° Υ 17'02	-1°-49'-52
direct	-3051 Jan 01 j 07:19	27° κ 50'16		minimum elong	-3043 May 04 j 19:37	18° Υ 17'02	1°49'51
	-3051 Apr 06 j 13:42	0° Υ		max. Earth dist.	-3043 May 04 j 21:27	18° Υ 17'12	30.89071 AU
				retrograde	-3043 Aug 18 j 15:14	20° Υ 49'09	
conjunction	-3051 Apr 16 j 00:10	0° Υ 21'04	-2°-5'-7	opposition	-3043 Nov 04 j 11:25	19° Υ 24'54	-1°-56'-3
minimum elong	-3051 Apr 16 j 00:11	0° Υ 21'04	2°05'07	min. Earth dist.	-3043 Nov 04 j 09:40	19° Υ 25'01	28.89631 AU
max. Earth dist.	-3051 Apr 16 j 08:25	0° Υ 21'50	30.85233 AU	direct	-3042 Jan 21 j 18:32	18° Υ 00'04	
retrograde	-3051 Jul 31 j 16:18	2° Υ 54'24					
opposition	-3051 Oct 17 j 23:55	1° Υ 29'39	-2°-13'-7	conjunction	-3042 May 07 j 10:08	20° Υ 31'34	-1°-47'-10
min. Earth dist.	-3051 Oct 17 j 17:05	1° Υ 30'08	28.85484 AU	minimum elong	-3042 May 07 j 10:08	20° Υ 31'34	1°47'10
direct	-3050 Jan 03 j 19:06	0° Υ 05'10		max. Earth dist.	-3042 May 07 j 10:35	20° Υ 31'36	30.89985 AU
				retrograde	-3042 Aug 21 j 04:01	23° Υ 03'34	
conjunction	-3050 Apr 18 j 14:53	2° Υ 36'01	-2°-3'-50	opposition	-3042 Nov 06 j 21:58	21° Υ 39'25	-1°-53'-4
minimum elong	-3050 Apr 18 j 14:53	2° Υ 36'01	2°03'52	min. Earth dist.	-3042 Nov 06 j 22:05	21° Υ 39'25	28.90542 AU
max. Earth dist.	-3050 Apr 18 j 22:44	2° Υ 36'45	30.85441 AU	direct	-3041 Jan 24 j 06:20	20° Υ 14'36	
retrograde	-3050 Aug 03 j 04:06	5° Υ 09'10					
opposition	-3050 Oct 20 j 10:29	3° Υ 44'27	-2°-11'-40	conjunction	-3041 May 10 j 00:35	22° Υ 46'12	-1°-44'-19
min. Earth dist.	-3050 Oct 20 j 03:53	3° Υ 44'56	28.85673 AU	minimum elong	-3041 May 10 j 00:35	22° Υ 46'12	1°44'17
direct	-3049 Jan 06 j 08:24	2° Υ 19'53		max. Earth dist.	-3041 May 10 j 00:27	22° Υ 46'11	30.90876 AU
				retrograde	-3041 Aug 23 j 16:07	25° Υ 18'04	
conjunction	-3049 Apr 21 j 05:13	4° Υ 50'46	-2°-2'-23	opposition	-3041 Nov 09 j 08:25	23° Υ 54'01	-1°-49'-56
minimum elong	-3049 Apr 21 j 05:14	4° Υ 50'47	2°02'23	min. Earth dist.	-3041 Nov 09 j 08:54	23° Υ 53'59	28.91385 AU
max. Earth dist.	-3049 Apr 21 j 11:10	4° Υ 51'20	30.85641 AU	direct	-3040 Jan 26 j 19:44	22° Υ 29'12	
retrograde	-3049 Aug 05 j 16:06	7° Υ 23'46					
opposition	-3049 Oct 22 j 21:05	5° Υ 59'04	-2°-10'00	conjunction	-3040 May 11 j 15:01	25° Υ 00'53	-1°-41'-18
min. Earth dist.	-3049 Oct 22 j 15:41	5° Υ 59'27	28.85900 AU	minimum elong	-3040 May 11 j 15:02	25° Υ 00'53	1°41'17
direct	-3048 Jan 08 j 19:16	4° Υ 34'24		max. Earth dist.	-3040 May 11 j 12:39	25° Υ 00'40	30.91682 AU
				retrograde	-3040 Aug 25 j 04:52	27° Υ 32'36	
conjunction	-3048 Apr 22 j 19:44	7° Υ 05'21	-2°00'-45	opposition	-3040 Nov 10 j 18:51	26° Υ 08'38	-1°-46'-37
minimum elong	-3048 Apr 22 j 19:44	7° Υ 05'21	2°00'46	min. Earth dist.	-3040 Nov 10 j 20:52	26° Υ 08'30	28.92148 AU
max. Earth dist.	-3048 Apr 23 j 02:00	7° Υ 05'56	30.85902 AU	direct	-3039 Jan 28 j 06:51	24° Υ 43'47	
retrograde	-3048 Aug 07 j 03:01	9° Υ 38'10					
opposition	-3048 Oct 24 j 07:29	8° Υ 13'29	-2°-8'-9	conjunction	-3039 May 14 j 05:38	27° Υ 15'32	-1°-38'-8
min. Earth dist.	-3048 Oct 24 j 02:46	8° Υ 13'49	28.86198 AU	minimum elong	-3039 May 14 j 05:39	27° Υ 15'32	1°38'06
direct	-3047 Jan 10 j 07:07	6° Υ 48'46		max. Earth dist.	-3039 May 14 j 03:01	27° Υ 15'17	30.92397 AU
				retrograde	-3039 Aug 27 j 16:16	29° Υ 47'04	
conjunction	-3047 Apr 25 j 10:03	9° Υ 19'46	-1°-58'-56	opposition	-3039 Nov 13 j 05:19	28° Υ 23'11	-1°-43'-10
minimum elong	-3047 Apr 25 j 10:03	9° Υ 19'46	1°58'55	min. Earth dist.	-3039 Nov 13 j 08:27	28° Υ 22'57	28.92800 AU
max. Earth dist.	-3047 Apr 25 j 14:24	9° Υ 20'10	30.86265 AU	direct	-3038 Jan 30 j 19:19	26° Υ 58'17	
retrograde	-3047 Aug 09 j 15:13	11° Υ 52'25					
opposition	-3047 Oct 26 j 17:55	10° Υ 27'47	-2°-6'-7	conjunction	-3038 May 16 j 19:58	29° Υ 30'04	-1°-34'-49
min. Earth dist.	-3047 Oct 26 j 13:33	10° Υ 28'06	28.86622 AU	minimum elong	-3038 May 16 j 19:59	29° Υ 30'04	1°34'48
direct	-3046 Jan 12 j 17:44	9° Υ 02'59		max. Earth dist.	-3038 May 16 j 14:59	29° Υ 29'36	30.93019 AU
					-3038 May 30 j 07:49	0° ♄	
conjunction	-3046 Apr 28 j 00:32	11° Υ 34'04	-1°-56'-56	retrograde	-3038 Aug 30 j 03:38	2° ♄ 01'26	
minimum elong	-3046 Apr 28 j 00:33	11° Υ 34'04	1°56'56	opposition	-3038 Nov 15 j 15:38	0° ♄ 37'35	-1°-39'-33
max. Earth dist.	-3046 Apr 28 j 05:06	11° Υ 34'29	30.86751 AU	min. Earth dist.	-3038 Nov 15 j 19:30	0° ♄ 37'19	28.93389 AU
retrograde	-3046 Aug 12 j 01:12	14° Υ 06'34			-3038 Dec 08 j 12:10	30° ♄ Υ	
opposition	-3046 Oct 29 j 04:20	12° Υ 42'00	-2°-3'-53	direct	-3037 Feb 02 j 06:34	29° Υ 12'38	
min. Earth dist.	-3046 Oct 29 j 01:08	12° Υ 42'14	28.87177 AU		-3037 Mar 28 j 21:28	0° ♄	
direct	-3045 Jan 15 j 05:49	11° Υ 17'11					
				conjunction	-3037 May 19 j 10:22	1° ♄ 44'27	-1°-31'-22
conjunction	-3045 Apr 30 j 14:50	13° Υ 48'20	-1°-54'-45	minimum elong	-3037 May 19 j 10:22	1° ♄ 44'27	1°31'20
minimum elong	-3045 Apr 30 j 14:51	13° Υ 48'20	1°54'44	max. Earth dist.	-3037 May 19 j 05:18	1° ♄ 43'59	30.93588 AU
max. Earth dist.	-3045 Apr 30 j 17:53	13° Υ 48'37	30.87397 AU	retrograde	-3037 Sep 01 j 12:41	4° ♄ 15'36	
retrograde	-3045 Aug 14 j 14:15	16° Υ 20'42		opposition	-3037 Nov 18 j 02:02	2° ♄ 51'49	-1°-35'-48
opposition	-3045 Oct 31 j 14:42	14° Υ 56'13	-2°-1'-27	min. Earth dist.	-3037 Nov 18 j 07:24	2° ♄ 51'26	28.93942 AU
min. Earth dist.	-3045 Oct 31 j 11:14	14° Υ 56'27	28.87891 AU	direct	-3036 Feb 04 j 18:45	1° ♄ 26'48	
direct	-3044 Jan 17 j 18:02	13° Υ 31'22					
				conjunction	-3036 May 21 j 00:23	3° ♄ 58'37	-1°-27'-47
conjunction	-3044 May 02 j 05:08	16° Υ 02'38	-1°-52'-24	minimum elong	-3036 May 21 j 00:24	3° ♄ 58'37	1°27'45
minimum elong	-3044 May 02 j 05:08	16° Υ 02'38	1°52'24	max. Earth dist.	-3036 May 20 j 17:28	3° ♄ 57'59	30.94157 AU
max. Earth dist.	-3044 May 02 j 07:57	16° Υ 02'54	30.88179 AU	retrograde	-3036 Sep 03 j 00:51	6° ♄ 29'35	
retrograde	-3044 Aug 16 j 01:28	18° Υ 34'53		opposition	-3036 Nov 19 j 12:16	5° ♄ 05'50	-1°-31'-54
opposition	-3044 Nov 02 j 01:12	17° Υ 10'30	-1°-58'-50	min. Earth dist.	-3036 Nov 19 j 17:37	5° ♄ 05'27	28.94515 AU
min. Earth dist.	-3044 Nov 01 j 23:28	17° Υ 10'37	28.88725 AU	direct	-3035 Feb 06 j 06:39	3° ♄ 40'44	
direct	-3043 Jan 19 j 05:03	15° Υ 45'40					

Attention, astronomical year style is used: The year -3035 in astronomical counting style is the year 3036 BCE in historical counting style.

conjunction	-3035 May 23 j 14:35	6°♃12'35	-1°-24'-5	direct	-3027 Feb 24 j 09:08	21°♃28'52	
minimum elong	-3035 May 23 j 14:35	6°♃12'35	1°24'02				
max. Earth dist.	-3035 May 23 j 07:20	6°♃11'55	30.94749 AU	conjunction	-3027 Jun 11 j 05:03	24°♃01'04	0°-50'-25
retrograde	-3035 Sep 05 j 10:21	8°♃43'21		minimum elong	-3027 Jun 11 j 05:03	24°♃01'04	0°50'21
opposition	-3035 Nov 21 j 22:32	7°♃19'38	-1°-27'-52	max. Earth dist.	-3027 Jun 10 j 14:11	23°♃59'41	31.02184 AU
min. Earth dist.	-3035 Nov 22 j 05:39	7°♃19'08	28.95142 AU	retrograde	-3027 Sep 23 j 05:55	26°♃30'33	
direct	-3034 Feb 08 j 17:39	5°♃54'29		opposition	-3027 Dec 09 j 08:55	25°♃07'30	0°-51'-28
				min. Earth dist.	-3027 Dec 09 j 21:21	25°♃06'38	29.02615 AU
conjunction	-3034 May 26 j 04:36	8°♃26'21	-1°-20'-15	direct	-3026 Feb 26 j 20:46	23°♃42'16	
minimum elong	-3034 May 26 j 04:36	8°♃26'21	1°20'13				
max. Earth dist.	-3034 May 25 j 20:25	8°♃25'35	30.95432 AU	conjunction	-3026 Jun 13 j 18:47	26°♃14'30	0°-45'-49
retrograde	-3034 Sep 07 j 22:19	10°♃56'56		minimum elong	-3026 Jun 13 j 18:47	26°♃14'30	0°45'46
opposition	-3034 Nov 24 j 08:46	9°♃33'15	-1°-23'-43	max. Earth dist.	-3026 Jun 13 j 03:28	26°♃13'04	31.02954 AU
min. Earth dist.	-3034 Nov 24 j 15:32	9°♃32'47	28.95868 AU	retrograde	-3026 Sep 25 j 15:01	28°♃43'49	
direct	-3033 Feb 11 j 07:54	8°♃08'03		opposition	-3026 Dec 11 j 19:28	27°♃20'50	0°-46'-31
				min. Earth dist.	-3026 Dec 12 j 09:49	27°♃19'49	29.03338 AU
conjunction	-3033 May 28 j 18:20	10°♃39'57	-1°-16'-18	direct	-3025 Mar 01 j 07:48	25°♃55'34	
minimum elong	-3033 May 28 j 18:20	10°♃39'57	1°16'15				
max. Earth dist.	-3033 May 28 j 09:21	10°♃39'07	30.96217 AU	conjunction	-3025 Jun 16 j 08:06	28°♃27'47	0°-41'-9
retrograde	-3033 Sep 10 j 09:27	13°♃10'22		minimum elong	-3025 Jun 16 j 08:06	28°♃27'47	0°41'05
opposition	-3033 Nov 26 j 19:07	11°♃46'45	-1°-19'-26	max. Earth dist.	-3025 Jun 15 j 15:35	28°♃26'15	31.03646 AU
min. Earth dist.	-3033 Nov 27 j 03:13	11°♃46'10	28.96722 AU		-3025 Jul 30 j 17:26	0°♂	
direct	-3032 Feb 13 j 19:50	10°♃21'31		retrograde	-3025 Sep 28 j 02:07	0°♂56'56	
					-3025 Nov 28 j 14:03	30°♂	
conjunction	-3032 May 30 j 08:12	12°♃53'28	-1°-12'-15	opposition	-3025 Dec 14 j 05:46	29°♃34'00	0°-41'-29
minimum elong	-3032 May 30 j 08:13	12°♃53'28	1°12'13	min. Earth dist.	-3025 Dec 14 j 20:01	29°♃33'00	29.03988 AU
max. Earth dist.	-3032 May 29 j 23:02	12°♃52'37	30.97143 AU	direct	-3024 Mar 02 j 21:51	28°♃08'40	
	-3032 Aug 05 j 07:49	15°♂			-3024 May 30 j 07:39	0°♂	
retrograde	-3032 Sep 11 j 21:05	15°♂23'42					
	-3032 Oct 19 j 22:47	15°♂		conjunction	-3024 Jun 17 j 21:29	0°♂40'54	0°-36'-26
opposition	-3032 Nov 28 j 05:14	14°♃00'11	-1°-15'-1	minimum elong	-3024 Jun 17 j 21:29	0°♂40'54	0°36'22
min. Earth dist.	-3032 Nov 28 j 13:19	13°♃59'36	28.97689 AU	max. Earth dist.	-3024 Jun 17 j 04:02	0°♂39'17	31.04273 AU
direct	-3031 Feb 15 j 09:10	12°♃34'57		retrograde	-3024 Sep 29 j 12:30	3°♂09'53	
	-3031 May 29 j 19:11	15°♂		opposition	-3024 Dec 15 j 16:02	1°♂46'58	0°-36'-25
conjunction	-3031 Jun 01 j 22:01	15°♂06'57	-1°-8'-4	min. Earth dist.	-3024 Dec 16 j 07:53	1°♂45'52	29.04610 AU
minimum elong	-3031 Jun 01 j 22:01	15°♂06'57	1°08'01	direct	-3023 Mar 05 j 09:33	0°♂21'36	
max. Earth dist.	-3031 Jun 01 j 11:12	15°♂05'56	30.98164 AU	conjunction	-3023 Jun 20 j 10:46	2°♂53'50	0°-31'-40
retrograde	-3031 Sep 14 j 09:45	17°♃37'02		minimum elong	-3023 Jun 20 j 10:46	2°♂53'50	0°31'35
opposition	-3031 Nov 30 j 15:32	16°♃13'36	-1°-10'-30	max. Earth dist.	-3023 Jun 19 j 17:00	2°♂52'11	31.04900 AU
min. Earth dist.	-3031 Dec 01 j 00:42	16°♃12'57	28.98747 AU	retrograde	-3023 Oct 01 j 23:22	5°♂22'38	
	-3030 Jan 22 j 02:36	15°♂		opposition	-3023 Dec 18 j 02:20	3°♂59'46	0°-31'-18
direct	-3030 Feb 17 j 20:44	14°♃48'23		min. Earth dist.	-3023 Dec 18 j 18:10	3°♂58'39	29.05240 AU
	-3030 Mar 16 j 10:00	15°♂		direct	-3022 Mar 07 j 23:08	2°♂34'21	
conjunction	-3030 Jun 04 j 11:51	17°♃20'27	-1°-3'-48	conjunction	-3022 Jun 22 j 23:40	5°♂06'34	0°-26'-51
minimum elong	-3030 Jun 04 j 11:51	17°♃20'27	1°03'45	minimum elong	-3022 Jun 22 j 23:41	5°♂06'34	0°26'47
max. Earth dist.	-3030 Jun 04 j 01:15	17°♃19'28	30.99241 AU	max. Earth dist.	-3022 Jun 22 j 04:37	5°♂04'48	31.05557 AU
retrograde	-3030 Sep 16 j 20:45	19°♃50'23		retrograde	-3022 Oct 04 j 11:29	7°♂35'13	
opposition	-3030 Dec 03 j 01:50	18°♃27'04	-1°-5'-53	opposition	-3022 Dec 20 j 12:41	6°♂12'22	0°-26'-8
min. Earth dist.	-3030 Dec 03 j 11:56	18°♃26'22	28.99813 AU	min. Earth dist.	-3022 Dec 21 j 05:13	6°♂11'13	29.05948 AU
direct	-3029 Feb 20 j 09:46	17°♃01'52		direct	-3021 Mar 10 j 11:29	4°♂46'55	
conjunction	-3029 Jun 07 j 01:33	19°♃33'59	0°-59'-25	conjunction	-3021 Jun 25 j 12:38	7°♂19'08	0°-22'-1
minimum elong	-3029 Jun 07 j 01:33	19°♃33'59	0°59'21	minimum elong	-3021 Jun 25 j 12:38	7°♂19'08	0°21'56
max. Earth dist.	-3029 Jun 06 j 12:53	19°♃32'49	31.00303 AU	max. Earth dist.	-3021 Jun 24 j 18:12	7°♂17'26	31.06315 AU
retrograde	-3029 Sep 19 j 08:26	22°♃03'47		retrograde	-3021 Oct 06 j 21:45	9°♂47'38	
opposition	-3029 Dec 05 j 12:08	20°♃40'35	-1°-1'-10	opposition	-3021 Dec 22 j 23:00	8°♂24'50	0°-20'-57
min. Earth dist.	-3029 Dec 05 j 22:48	20°♃39'49	29.00853 AU	min. Earth dist.	-3021 Dec 23 j 15:58	8°♂23'39	29.06758 AU
direct	-3028 Feb 22 j 21:08	19°♃15'22		direct	-3020 Mar 12 j 01:13	6°♂59'23	
				max. Earth dist.	-3020 Jun 26 j 05:27	9°♂29'46	31.07195 AU
conjunction	-3028 Jun 08 j 15:21	21°♃47'33	0°-54'-58	conjunction	-3020 Jun 27 j 01:19	9°♂31'36	0°-17'-9
minimum elong	-3028 Jun 08 j 15:21	21°♃47'33	0°54'54	minimum elong	-3020 Jun 27 j 01:19	9°♂31'36	0°17'04
max. Earth dist.	-3028 Jun 08 j 02:39	21°♃46'22	31.01296 AU	retrograde	-3020 Oct 08 j 08:53	11°♂59'57	
retrograde	-3028 Sep 20 j 17:53	24°♃17'12		opposition	-3020 Dec 24 j 09:19	10°♂37'14	0°-15'-43
opposition	-3028 Dec 06 j 22:38	22°♃54'04	0°-56'-21	min. Earth dist.	-3020 Dec 25 j 02:10	10°♂36'03	29.07703 AU
min. Earth dist.	-3028 Dec 07 j 10:56	22°♃53'12	29.01788 AU				

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

direct	-3019 Mar 14 j 12:50	9°II11'47			opposition	-3012 Jan 09 j 11:06	26°II03'50	0°21'00
					min. Earth dist.	-3012 Jan 10 j 08:20	26°II02'22	29.14499 AU
conjunction	-3019 Jun 29 j 14:10	11°II44'01	0°-12'-15		direct	-3012 Mar 30 j 00:02	24°II38'26	
minimum elong	-3019 Jun 29 j 14:11	11°II44'01	0°12'10		max. Earth dist.	-3012 Jul 14 j 05:56	27°II08'27	31.14799 AU
behind sun begin	-3019 Jun 29 j 09:50	11°II43'38						
behind sun end	-3019 Jun 29 j 18:31	11°II44'24			conjunction	-3012 Jul 15 j 05:21	27°II10'37	0°22'09
max. Earth dist.	-3019 Jun 28 j 19:01	11°II42'15	31.08193 AU		minimum elong	-3012 Jul 15 j 05:21	27°II10'37	0°22'15
retrograde	-3019 Oct 10 j 18:05	14°II12'14			retrograde	-3012 Oct 25 j 18:55	29°II38'01	
opposition	-3019 Dec 26 j 19:43	12°II49'37	0°-10'-29		opposition	-3011 Jan 10 j 21:49	28°II15'48	0°26'10
min. Earth dist.	-3019 Dec 27 j 13:39	12°II48'22	29.08746 AU		min. Earth dist.	-3011 Jan 11 j 19:45	28°II14'16	29.15142 AU
direct	-3018 Mar 17 j 00:52	11°II24'12			direct	-3011 Apr 01 j 14:09	26°II50'22	
max. Earth dist.	-3018 Jul 01 j 06:13	13°II54'33	31.09284 AU					
					conjunction	-3011 Jul 17 j 17:18	29°II22'30	0°26'58
conjunction	-3018 Jul 02 j 02:47	13°II56'27	0°-7'-21		minimum elong	-3011 Jul 17 j 17:18	29°II22'30	0°27'04
minimum elong	-3018 Jul 02 j 02:46	13°II56'27	0°07'17		max. Earth dist.	-3011 Jul 16 j 16:27	29°II20'11	31.15421 AU
behind sun begin	-3018 Jul 01 j 20:46	13°II55'55				-3011 Aug 03 j 16:10	0°00	
behind sun end	-3018 Jul 02 j 08:47	13°II56'59			retrograde	-3011 Oct 28 j 06:04	1°0049'45	
retrograde	-3018 Oct 13 j 06:10	16°II24'34			opposition	-3010 Jan 13 j 08:26	0°0027'32	0°31'18
opposition	-3018 Dec 29 j 06:07	15°II02'03	0°-5'-13		min. Earth dist.	-3010 Jan 14 j 06:14	0°0026'02	29.15764 AU
min. Earth dist.	-3018 Dec 29 j 23:35	15°II00'49	29.09859 AU			-3010 Jan 30 j 03:50	30°R00	
direct	-3017 Mar 19 j 12:01	13°II36'39			direct	-3010 Apr 04 j 02:12	29°II02'05	
						-3010 Jun 04 j 17:34	0°00	
conjunction	-3017 Jul 04 j 15:18	16°II08'55	0°-2'-26		max. Earth dist.	-3010 Jul 19 j 05:19	1°0031'56	31.16039 AU
minimum elong	-3017 Jul 04 j 15:18	16°II08'55	0°02'21					
behind sun begin	-3017 Jul 04 j 08:45	16°II08'20			conjunction	-3010 Jul 20 j 05:16	1°0034'09	0°31'44
behind sun end	-3017 Jul 04 j 21:51	16°II09'30			minimum elong	-3010 Jul 20 j 05:16	1°0034'09	0°31'50
max. Earth dist.	-3017 Jul 03 j 18:57	16°II07'02	31.10396 AU		retrograde	-3010 Oct 30 j 15:14	4°0001'16	
retrograde	-3017 Oct 15 j 14:32	18°II36'56			opposition	-3009 Jan 15 j 19:16	2°0039'05	0°36'23
asc. node	-3017 Dec 28 j 23:49	17°II19'02			min. Earth dist.	-3009 Jan 16 j 17:56	2°0037'31	29.16404 AU
opposition	-3017 Dec 31 j 16:43	17°II14'30	0°00'02		direct	-3009 Apr 06 j 15:17	1°0013'37	
min. Earth dist.	-3016 Jan 01 j 11:50	17°II13'10	29.10965 AU					
direct	-3016 Mar 20 j 22:46	15°II49'08			conjunction	-3009 Jul 22 j 16:46	3°0045'37	0°36'27
max. Earth dist.	-3016 Jul 05 j 06:29	18°II19'26	31.11479 AU		minimum elong	-3009 Jul 22 j 16:45	3°0045'37	0°36'33
					max. Earth dist.	-3009 Jul 21 j 15:50	3°0043'18	31.16713 AU
conjunction	-3016 Jul 06 j 03:52	18°II21'25	0°02'37		retrograde	-3009 Nov 02 j 02:33	6°0012'38	
minimum elong	-3016 Jul 06 j 03:51	18°II21'25	0°02'42		opposition	-3008 Jan 18 j 05:54	4°0050'28	0°41'24
behind sun begin	-3016 Jul 05 j 21:18	18°II20'50			min. Earth dist.	-3008 Jan 19 j 03:40	4°0048'58	29.17123 AU
behind sun end	-3016 Jul 06 j 10:23	18°II22'00			direct	-3008 Apr 08 j 03:25	3°0025'00	
retrograde	-3016 Oct 17 j 00:52	20°II49'19			max. Earth dist.	-3008 Jul 23 j 04:11	5°0054'43	31.17472 AU
opposition	-3015 Jan 02 j 03:05	19°II26'58	0°05'18					
min. Earth dist.	-3015 Jan 02 j 21:59	19°II25'39	29.12005 AU		conjunction	-3008 Jul 24 j 04:27	5°0056'58	0°41'07
direct	-3015 Mar 23 j 11:39	18°II01'36			minimum elong	-3008 Jul 24 j 04:27	5°0056'58	0°41'13
					retrograde	-3008 Nov 03 j 10:36	8°0023'53	
conjunction	-3015 Jul 08 j 16:26	20°II33'53	0°07'32		opposition	-3007 Jan 19 j 16:39	7°0001'46	0°46'21
minimum elong	-3015 Jul 08 j 16:26	20°II33'53	0°07'37		min. Earth dist.	-3007 Jan 20 j 15:27	7°0000'12	29.17945 AU
behind sun begin	-3015 Jul 08 j 10:30	20°II33'22			direct	-3007 Apr 10 j 14:27	5°0036'19	
behind sun end	-3015 Jul 08 j 22:22	20°II34'25						
max. Earth dist.	-3015 Jul 07 j 18:19	20°II31'50	31.12463 AU		conjunction	-3007 Jul 26 j 15:57	8°0008'16	0°45'44
retrograde	-3015 Oct 19 j 11:05	23°II01'41			minimum elong	-3007 Jul 26 j 15:57	8°0008'16	0°45'49
opposition	-3014 Jan 04 j 13:50	21°II39'23	0°10'34		max. Earth dist.	-3007 Jul 25 j 15:26	8°0005'59	31.18355 AU
min. Earth dist.	-3014 Jan 05 j 10:12	21°II37'58	29.12947 AU		retrograde	-3007 Nov 05 j 20:33	10°0035'07	
direct	-3014 Mar 25 j 22:07	20°II14'01			opposition	-3006 Jan 22 j 03:27	9°0013'04	0°51'14
max. Earth dist.	-3014 Jul 10 j 06:24	22°II44'12	31.13346 AU		min. Earth dist.	-3006 Jan 23 j 01:16	9°0011'34	29.18876 AU
					direct	-3006 Apr 13 j 02:34	7°0047'40	
conjunction	-3014 Jul 11 j 04:48	22°II46'17	0°12'25		max. Earth dist.	-3006 Jul 28 j 02:53	10°0017'20	31.19324 AU
minimum elong	-3014 Jul 11 j 04:48	22°II46'17	0°12'30					
behind sun begin	-3014 Jul 11 j 00:37	22°II45'55			conjunction	-3006 Jul 29 j 03:18	10°0019'36	0°50'16
behind sun end	-3014 Jul 11 j 08:58	22°II46'39			minimum elong	-3006 Jul 29 j 03:17	10°0019'36	0°50'22
retrograde	-3014 Oct 21 j 21:29	25°II13'57			retrograde	-3006 Nov 08 j 06:38	12°0046'25	
opposition	-3013 Jan 07 j 00:31	23°II51'41	0°15'48		opposition	-3005 Jan 24 j 14:24	11°0024'27	0°56'03
min. Earth dist.	-3013 Jan 07 j 20:55	23°II50'16	29.13767 AU		min. Earth dist.	-3005 Jan 25 j 13:00	11°0022'53	29.19891 AU
direct	-3013 Mar 28 j 11:46	22°II26'19			direct	-3005 Apr 15 j 11:53	9°0059'06	
conjunction	-3013 Jul 13 j 17:04	24°II58'32	0°17'18		conjunction	-3005 Jul 31 j 14:41	12°0031'02	0°54'45
minimum elong	-3013 Jul 13 j 17:04	24°II58'32	0°17'23		minimum elong	-3005 Jul 31 j 14:40	12°0031'02	0°54'50
max. Earth dist.	-3013 Jul 12 j 17:14	24°II56'20	31.14112 AU		max. Earth dist.	-3005 Jul 30 j 14:39	12°0028'48	31.20353 AU
retrograde	-3013 Oct 24 j 09:11	27°II26'04			retrograde	-3005 Nov 10 j 16:52	14°0057'50	

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Attention, astronomical year style is used: The year -3004 in astronomical counting style is the year 3005 BCE in historical counting style.

opposition	-3004 Jan 27 j 01:13	13° \mathfrak{E} 35'56	1°00'47	opposition	-2996 Feb 13 j 19:16	1° \mathfrak{Q} 07'34	1°34'53
min. Earth dist.	-3004 Jan 27 j 23:31	13° \mathfrak{E} 34'24	29.20913 AU	min. Earth dist.	-2996 Feb 14 j 19:13	1° \mathfrak{Q} 05'55	29.25631 AU
direct	-3004 Apr 17 j 00:42	12° \mathfrak{E} 10'40			-2996 Apr 01 j 05:56	30° \mathfrak{R} \mathfrak{E}	
max. Earth dist.	-3004 Aug 01 j 00:59	14° \mathfrak{E} 40'16	31.21353 AU	direct	-2996 May 05 j 02:23	29° \mathfrak{E} 42'24	
					-2996 Jun 07 j 09:15	0° \mathfrak{Q}	
conjunction	-3004 Aug 02 j 02:00	14° \mathfrak{E} 42'36	0°59'08	conjunction	-2996 Aug 19 j 17:23	2° \mathfrak{Q} 13'48	1°30'36
minimum elong	-3004 Aug 02 j 02:00	14° \mathfrak{E} 42'36	0°59'14	minimum elong	-2996 Aug 19 j 17:23	2° \mathfrak{Q} 13'48	1°30'40
retrograde	-3004 Nov 12 j 05:03	17° \mathfrak{E} 09'22		max. Earth dist.	-2996 Aug 18 j 16:54	2° \mathfrak{Q} 11'30	31.25717 AU
opposition	-3003 Jan 28 j 12:17	15° \mathfrak{E} 47'32	1°05'26	retrograde	-2996 Nov 29 j 12:19	4° \mathfrak{Q} 40'09	
min. Earth dist.	-3003 Jan 29 j 11:02	15° \mathfrak{E} 45'58	29.21895 AU	opposition	-2995 Feb 15 j 06:41	3° \mathfrak{Q} 18'22	1°38'34
direct	-3003 Apr 19 j 12:04	14° \mathfrak{E} 22'19		min. Earth dist.	-2995 Feb 16 j 05:44	3° \mathfrak{Q} 16'47	29.26030 AU
				direct	-2995 May 07 j 15:45	1° \mathfrak{Q} 53'13	
conjunction	-3003 Aug 04 j 13:21	16° \mathfrak{E} 54'15	1°03'26	max. Earth dist.	-2995 Aug 21 j 02:51	4° \mathfrak{Q} 22'11	31.26156 AU
minimum elong	-3003 Aug 04 j 13:20	16° \mathfrak{E} 54'15	1°03'32				
max. Earth dist.	-3003 Aug 03 j 13:04	16° \mathfrak{E} 51'59	31.22277 AU	conjunction	-2995 Aug 22 j 03:40	4° \mathfrak{Q} 24'31	1°33'59
retrograde	-3003 Nov 14 j 14:59	19° \mathfrak{E} 20'59		minimum elong	-2995 Aug 22 j 03:40	4° \mathfrak{Q} 24'31	1°34'04
opposition	-3002 Jan 30 j 23:31	17° \mathfrak{E} 59'13	1°09'59	retrograde	-2995 Dec 01 j 23:25	6° \mathfrak{Q} 50'52	
min. Earth dist.	-3002 Jan 31 j 22:49	17° \mathfrak{E} 57'37	29.22761 AU	opposition	-2994 Feb 17 j 18:12	5° \mathfrak{Q} 29'04	1°42'07
direct	-3002 Apr 22 j 01:23	16° \mathfrak{E} 34'03		min. Earth dist.	-2994 Feb 18 j 16:51	5° \mathfrak{Q} 27'31	29.26531 AU
max. Earth dist.	-3002 Aug 05 j 22:56	19° \mathfrak{E} 03'33	31.23081 AU	direct	-2994 May 10 j 02:02	4° \mathfrak{Q} 03'57	
conjunction	-3002 Aug 07 j 00:32	19° \mathfrak{E} 05'56	1°07'39	conjunction	-2994 Aug 24 j 14:03	6° \mathfrak{Q} 35'11	1°37'14
minimum elong	-3002 Aug 07 j 00:31	19° \mathfrak{E} 05'56	1°07'44	minimum elong	-2994 Aug 24 j 14:03	6° \mathfrak{Q} 35'11	1°37'19
retrograde	-3002 Nov 17 j 02:52	21° \mathfrak{E} 32'38		max. Earth dist.	-2994 Aug 23 j 14:45	6° \mathfrak{Q} 33'00	31.26697 AU
opposition	-3001 Feb 02 j 10:43	20° \mathfrak{E} 10'54	1°14'26	retrograde	-2994 Dec 04 j 08:55	9° \mathfrak{Q} 01'32	
min. Earth dist.	-3001 Feb 03 j 09:44	20° \mathfrak{E} 09'20	29.23512 AU	opposition	-2993 Feb 20 j 05:44	7° \mathfrak{Q} 39'45	1°45'32
direct	-3001 Apr 24 j 12:59	18° \mathfrak{E} 45'46		min. Earth dist.	-2993 Feb 21 j 04:15	7° \mathfrak{Q} 38'13	29.27106 AU
max. Earth dist.	-3001 Aug 08 j 10:54	21° \mathfrak{E} 15'18	31.23748 AU	direct	-2993 May 12 j 14:09	6° \mathfrak{Q} 14'43	
				max. Earth dist.	-2993 Aug 26 j 00:17	8° \mathfrak{Q} 43'39	31.27298 AU
conjunction	-3001 Aug 09 j 11:40	21° \mathfrak{E} 17'37	1°11'45	conjunction	-2993 Aug 27 j 00:09	8° \mathfrak{Q} 45'53	1°40'21
minimum elong	-3001 Aug 09 j 11:40	21° \mathfrak{E} 17'37	1°11'51	minimum elong	-2993 Aug 27 j 00:08	8° \mathfrak{Q} 45'53	1°40'26
retrograde	-3001 Nov 19 j 12:48	23° \mathfrak{E} 44'15		retrograde	-2993 Dec 06 j 20:59	11° \mathfrak{Q} 12'15	
opposition	-3000 Feb 04 j 22:04	22° \mathfrak{E} 22'33	1°18'46	opposition	-2992 Feb 22 j 17:14	9° \mathfrak{Q} 50'30	1°48'47
min. Earth dist.	-3000 Feb 05 j 22:08	22° \mathfrak{E} 20'54	29.24110 AU	min. Earth dist.	-2992 Feb 23 j 14:52	9° \mathfrak{Q} 49'02	29.27724 AU
direct	-3000 Apr 26 j 02:56	20° \mathfrak{E} 57'26		direct	-2992 May 14 j 01:22	8° \mathfrak{Q} 25'31	
				max. Earth dist.	-2992 Aug 27 j 11:57	10° \mathfrak{Q} 54'33	31.27900 AU
conjunction	-3000 Aug 10 j 22:40	23° \mathfrak{E} 29'12	1°15'46	conjunction	-2992 Aug 28 j 10:26	10° \mathfrak{Q} 56'39	1°43'19
minimum elong	-3000 Aug 10 j 22:39	23° \mathfrak{E} 29'12	1°15'51	minimum elong	-2992 Aug 28 j 10:25	10° \mathfrak{Q} 56'39	1°43'24
max. Earth dist.	-3000 Aug 09 j 20:42	23° \mathfrak{E} 26'47	31.24279 AU	retrograde	-2992 Dec 08 j 07:16	13° \mathfrak{Q} 23'04	
retrograde	-3000 Nov 21 j 00:26	25° \mathfrak{E} 55'47		opposition	-2991 Feb 24 j 04:57	12° \mathfrak{Q} 01'20	1°51'52
opposition	-2999 Feb 06 j 09:13	24° \mathfrak{E} 34'05	1°22'59	min. Earth dist.	-2991 Feb 25 j 03:13	11° \mathfrak{Q} 59'49	29.28309 AU
min. Earth dist.	-2999 Feb 07 j 08:32	24° \mathfrak{E} 32'28	29.24581 AU	direct	-2991 May 16 j 14:37	10° \mathfrak{Q} 36'26	
direct	-2999 Apr 28 j 15:59	23° \mathfrak{E} 08'57					
max. Earth dist.	-2999 Aug 12 j 08:14	25° \mathfrak{E} 38'16	31.24687 AU				
conjunction	-2999 Aug 13 j 09:40	25° \mathfrak{E} 40'39	1°19'39	conjunction	-2991 Aug 30 j 20:33	13° \mathfrak{Q} 07'31	1°46'09
minimum elong	-2999 Aug 13 j 09:40	25° \mathfrak{E} 40'39	1°19'44	minimum elong	-2991 Aug 30 j 20:33	13° \mathfrak{Q} 07'31	1°46'13
retrograde	-2999 Nov 23 j 08:24	28° \mathfrak{E} 07'10		max. Earth dist.	-2991 Aug 29 j 21:28	13° \mathfrak{Q} 05'21	31.28456 AU
opposition	-2998 Feb 08 j 20:40	26° \mathfrak{E} 45'27	1°27'05		-2991 Oct 26 j 15:31	15° \mathfrak{Q}	
min. Earth dist.	-2998 Feb 09 j 21:07	26° \mathfrak{E} 43'46	29.24956 AU	retrograde	-2991 Dec 10 j 19:19	15° \mathfrak{Q} 33'57	
direct	-2998 May 01 j 03:49	25° \mathfrak{E} 20'19			-2990 Jan 26 j 13:06	15° \mathfrak{R} \mathfrak{Q}	
				opposition	-2990 Feb 26 j 16:44	14° \mathfrak{Q} 12'16	1°54'48
conjunction	-2998 Aug 15 j 20:15	27° \mathfrak{E} 51'54	1°23'25	min. Earth dist.	-2990 Feb 27 j 13:46	14° \mathfrak{Q} 10'50	29.28827 AU
minimum elong	-2998 Aug 15 j 20:15	27° \mathfrak{E} 51'54	1°23'31	direct	-2990 May 19 j 03:08	12° \mathfrak{Q} 47'25	
max. Earth dist.	-2998 Aug 14 j 18:43	27° \mathfrak{E} 49'31	31.25033 AU		-2990 Aug 25 j 01:28	15° \mathfrak{Q}	
	-2998 Oct 23 j 22:43	0° \mathfrak{Q}		max. Earth dist.	-2990 Sep 01 j 08:19	15° \mathfrak{Q} 16'22	31.28908 AU
retrograde	-2998 Nov 25 j 17:44	0° \mathfrak{Q} 18'21					
	-2998 Dec 29 j 07:50	30° \mathfrak{R} \mathfrak{E}		conjunction	-2990 Sep 02 j 06:38	15° \mathfrak{Q} 18'27	1°48'49
opposition	-2997 Feb 11 j 07:59	28° \mathfrak{E} 56'36	1°31'03	minimum elong	-2990 Sep 02 j 06:38	15° \mathfrak{Q} 18'27	1°48'53
min. Earth dist.	-2997 Feb 12 j 07:24	28° \mathfrak{E} 55'00	29.25283 AU	retrograde	-2990 Dec 13 j 04:23	17° \mathfrak{Q} 44'56	
direct	-2997 May 03 j 16:34	27° \mathfrak{E} 31'28		opposition	-2989 Mar 01 j 04:43	16° \mathfrak{Q} 23'15	1°57'34
	-2997 Aug 16 j 23:23	0° \mathfrak{Q}		min. Earth dist.	-2989 Mar 02 j 02:42	16° \mathfrak{Q} 21'45	29.29229 AU
max. Earth dist.	-2997 Aug 17 j 05:32	0° \mathfrak{Q} 00'35	31.25349 AU		-2989 May 11 j 18:30	15° \mathfrak{R} \mathfrak{Q}	
				direct	-2989 May 21 j 14:50	14° \mathfrak{Q} 58'29	
conjunction	-2997 Aug 18 j 06:52	0° \mathfrak{Q} 02'57	1°27'04		-2989 May 31 j 07:37	15° \mathfrak{Q}	
minimum elong	-2997 Aug 18 j 06:51	0° \mathfrak{Q} 02'57	1°27'09				
retrograde	-2997 Nov 28 j 03:15	2° \mathfrak{Q} 29'20					

Attention, astronomical year style is used: The year -2989 in astronomical counting style is the year 2990 BCE in historical counting style.

conjunction	-2989 Sep 04 j 16:45	17° Ω 29'26	1°51'19	conjunction	-2981 Sep 21 j 21:55	4° \mp 54'43	2°05'24
minimum elong	-2989 Sep 04 j 16:44	17° Ω 29'26	1°51'23	minimum elong	-2981 Sep 21 j 21:55	4° \mp 54'43	2°05'26
max. Earth dist.	-2989 Sep 03 j 18:24	17° Ω 27'20	31.29240 AU	max. Earth dist.	-2981 Sep 21 j 04:27	4° \mp 53'04	31.29335 AU
retrograde	-2989 Dec 15 j 14:20	19° Ω 55'56		retrograde	-2980 Jan 02 j 01:40	7° \mp 21'35	
opposition	-2988 Mar 02 j 16:26	18° Ω 34'16	2°00'10	opposition	-2980 Mar 20 j 16:56	5° \mp 59'36	2°14'30
min. Earth dist.	-2988 Mar 03 j 13:25	18° Ω 32'50	29.29485 AU	min. Earth dist.	-2980 Mar 21 j 10:06	5° \mp 58'26	29.29591 AU
direct	-2988 May 23 j 03:40	17° Ω 09'31		direct	-2980 Jun 10 j 00:50	4° \mp 35'08	
max. Earth dist.	-2988 Sep 05 j 04:27	19° Ω 38'18	31.29416 AU				
conjunction	-2988 Sep 06 j 02:51	19° Ω 40'25	1°53'40	conjunction	-2980 Sep 23 j 07:16	7° \mp 05'15	2°06'23
minimum elong	-2988 Sep 06 j 02:51	19° Ω 40'24	1°53'44	minimum elong	-2980 Sep 23 j 07:16	7° \mp 05'15	2°06'25
retrograde	-2988 Dec 17 j 00:33	22° Ω 06'57		max. Earth dist.	-2980 Sep 22 j 14:36	7° \mp 03'41	31.29538 AU
opposition	-2987 Mar 05 j 04:30	20° Ω 45'15	2°02'36	retrograde	-2979 Jan 03 j 12:23	9° \mp 32'13	
min. Earth dist.	-2987 Mar 06 j 02:03	20° Ω 43'47	29.29603 AU	opposition	-2979 Mar 23 j 05:12	8° \mp 10'14	2°15'26
direct	-2987 May 25 j 13:53	19° Ω 20'33		min. Earth dist.	-2979 Mar 23 j 20:45	8° \mp 09'10	29.29791 AU
				direct	-2979 Jun 12 j 14:03	6° \mp 45'51	
conjunction	-2987 Sep 08 j 12:47	21° Ω 51'20	1°55'51	conjunction	-2979 Sep 25 j 16:30	9° \mp 15'53	2°07'10
minimum elong	-2987 Sep 08 j 12:47	21° Ω 51'20	1°55'55	minimum elong	-2979 Sep 25 j 16:30	9° \mp 15'53	2°07'12
max. Earth dist.	-2987 Sep 07 j 15:14	21° Ω 49'18	31.29464 AU	max. Earth dist.	-2979 Sep 25 j 00:18	9° \mp 14'22	31.29727 AU
retrograde	-2987 Dec 19 j 09:37	24° Ω 17'54		retrograde	-2978 Jan 05 j 23:14	11° \mp 42'58	
opposition	-2986 Mar 07 j 16:32	22° Ω 56'10	2°04'51	opposition	-2978 Mar 25 j 17:42	10° \mp 20'58	2°16'11
min. Earth dist.	-2986 Mar 08 j 13:19	22° Ω 54'45	29.29585 AU	min. Earth dist.	-2978 Mar 26 j 09:19	10° \mp 19'55	29.29972 AU
direct	-2986 May 28 j 03:16	21° Ω 31'29		direct	-2978 Jun 15 j 00:42	8° \mp 56'40	
				max. Earth dist.	-2978 Sep 27 j 11:00	11° \mp 25'13	31.29876 AU
conjunction	-2986 Sep 10 j 22:33	24° Ω 02'09	1°57'53	conjunction	-2978 Sep 28 j 01:56	11° \mp 26'37	2°07'47
minimum elong	-2986 Sep 10 j 22:33	24° Ω 02'09	1°57'57	minimum elong	-2978 Sep 28 j 01:56	11° \mp 26'37	2°07'49
max. Earth dist.	-2986 Sep 10 j 00:30	24° Ω 00'05	31.29400 AU	retrograde	-2977 Jan 08 j 08:16	13° \mp 53'48	
retrograde	-2986 Dec 21 j 20:43	26° Ω 28'46		opposition	-2977 Mar 28 j 06:02	12° \mp 31'47	2°16'45
opposition	-2985 Mar 10 j 04:28	25° Ω 06'58	2°06'55	min. Earth dist.	-2977 Mar 28 j 20:42	12° \mp 30'48	29.30071 AU
min. Earth dist.	-2985 Mar 11 j 00:57	25° Ω 05'34	29.29500 AU	direct	-2977 Jun 17 j 13:19	11° \mp 07'34	
direct	-2985 May 30 j 13:07	23° Ω 42'16					
max. Earth dist.	-2985 Sep 12 j 11:50	26° Ω 10'55	31.29287 AU	conjunction	-2977 Sep 30 j 11:14	13° \mp 37'26	2°08'12
				minimum elong	-2977 Sep 30 j 11:14	13° \mp 37'26	2°08'14
conjunction	-2985 Sep 13 j 08:16	26° Ω 12'51	1°59'44	max. Earth dist.	-2977 Sep 29 j 19:51	13° \mp 35'59	31.29921 AU
minimum elong	-2985 Sep 13 j 08:16	26° Ω 12'51	1°59'47	retrograde	-2976 Jan 10 j 19:25	16° \mp 04'42	
retrograde	-2985 Dec 24 j 05:53	28° Ω 39'29		opposition	-2976 Mar 29 j 18:34	14° \mp 42'40	2°17'06
opposition	-2984 Mar 11 j 16:32	27° Ω 17'37	2°08'48	min. Earth dist.	-2976 Mar 30 j 08:48	14° \mp 41'42	29.30063 AU
min. Earth dist.	-2984 Mar 12 j 12:46	27° Ω 16'14	29.29377 AU	direct	-2976 Jun 18 j 23:06	13° \mp 18'30	
direct	-2984 Jun 01 j 01:00	25° Ω 52'56					
				conjunction	-2976 Oct 01 j 20:39	15° \mp 48'16	2°08'27
conjunction	-2984 Sep 14 j 17:42	28° Ω 23'23	2°01'25	minimum elong	-2976 Oct 01 j 20:39	15° \mp 48'16	2°08'28
minimum elong	-2984 Sep 14 j 17:41	28° Ω 23'23	2°01'28	max. Earth dist.	-2976 Oct 01 j 06:49	15° \mp 46'58	31.29839 AU
max. Earth dist.	-2984 Sep 13 j 20:59	28° Ω 21'27	31.29176 AU	retrograde	-2975 Jan 12 j 05:03	18° \mp 15'39	
	-2984 Oct 31 j 08:42	0° \mp		opposition	-2975 Apr 01 j 07:14	16° \mp 53'33	2°17'16
retrograde	-2984 Dec 25 j 17:44	0° \mp 50'04		min. Earth dist.	-2975 Apr 01 j 21:16	16° \mp 52'37	29.29904 AU
	-2983 Feb 22 j 02:34	30° \mathcal{R} Ω		direct	-2975 Jun 21 j 11:00	15° \mp 29'26	
opposition	-2983 Mar 14 j 04:30	29° Ω 28'09	2°10'31				
min. Earth dist.	-2983 Mar 14 j 23:21	29° Ω 26'52	29.29300 AU	conjunction	-2975 Oct 04 j 05:57	17° \mp 59'05	2°08'30
direct	-2983 Jun 03 j 12:19	28° Ω 03'29		minimum elong	-2975 Oct 04 j 05:57	17° \mp 59'05	2°08'31
	-2983 Sep 02 j 00:11	0° \mp		max. Earth dist.	-2975 Oct 03 j 15:39	17° \mp 57'44	31.29620 AU
max. Earth dist.	-2983 Sep 16 j 08:24	0° \mp 32'04	31.29131 AU	retrograde	-2974 Jan 14 j 17:18	20° \mp 26'33	
				opposition	-2974 Apr 03 j 19:52	19° \mp 04'24	2°17'14
conjunction	-2983 Sep 17 j 03:15	0° \mp 33'51	2°02'55	min. Earth dist.	-2974 Apr 04 j 08:42	19° \mp 03'32	29.29622 AU
minimum elong	-2983 Sep 17 j 03:15	0° \mp 33'51	2°02'58	direct	-2974 Jun 23 j 22:00	17° \mp 40'18	
retrograde	-2983 Dec 28 j 04:20	3° \mp 00'34					
opposition	-2982 Mar 16 j 16:45	1° \mp 38'36	2°12'02	conjunction	-2974 Oct 06 j 15:14	20° \mp 09'51	2°08'23
min. Earth dist.	-2982 Mar 17 j 11:31	1° \mp 37'20	29.29306 AU	minimum elong	-2974 Oct 06 j 15:14	20° \mp 09'51	2°08'24
direct	-2982 Jun 06 j 01:19	0° \mp 14'00		max. Earth dist.	-2974 Oct 06 j 02:26	20° \mp 08'38	31.29271 AU
				retrograde	-2973 Jan 17 j 03:58	22° \mp 37'24	
conjunction	-2982 Sep 19 j 12:29	2° \mp 44'15	2°04'15	opposition	-2973 Apr 06 j 08:35	21° \mp 15'09	2°17'00
minimum elong	-2982 Sep 19 j 12:29	2° \mp 44'15	2°04'18	min. Earth dist.	-2973 Apr 06 j 21:39	21° \mp 14'16	29.29216 AU
max. Earth dist.	-2982 Sep 18 j 17:47	2° \mp 42'30	31.29194 AU	direct	-2973 Jun 26 j 10:12	19° \mp 51'05	
retrograde	-2982 Dec 30 j 16:16	5° \mp 11'03		max. Earth dist.	-2973 Oct 08 j 11:38	22° \mp 19'18	31.28835 AU
opposition	-2981 Mar 19 j 04:48	3° \mp 49'04	2°13'22				
min. Earth dist.	-2981 Mar 19 j 21:38	3° \mp 47'56	29.29414 AU	conjunction	-2973 Oct 09 j 00:23	22° \mp 20'30	2°08'05
direct	-2981 Jun 08 j 13:09	2° \mp 24'31		minimum elong	-2973 Oct 09 j 00:23	22° \mp 20'30	2°08'05

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Attention, astronomical year style is used: The year -2972 in astronomical counting style is the year 2973 BCE in historical counting style.

retrograde	-2972 Jan 19 j 15:50	24° $\mathring{\mu}$ 48'07		retrograde	-2964 Feb 06 j 07:13	12° $\mathring{\mu}$ 14'47	
opposition	-2972 Apr 07 j 21:01	23° $\mathring{\mu}$ 25'48	2°16'35	opposition	-2964 Apr 26 j 03:27	10° $\mathring{\mu}$ 52'09	2°06'15
min. Earth dist.	-2972 Apr 08 j 08:18	23° $\mathring{\mu}$ 25'02	29.28749 AU	min. Earth dist.	-2964 Apr 26 j 08:07	10° $\mathring{\mu}$ 51'50	29.26405 AU
direct	-2972 Jun 27 j 21:54	22° $\mathring{\mu}$ 01'43		direct	-2964 Jul 15 j 16:36	9° $\mathring{\mu}$ 28'40	
conjunction	-2972 Oct 10 j 09:31	24° $\mathring{\mu}$ 31'02	2°07'36	conjunction	-2964 Oct 27 j 09:52	11° $\mathring{\mu}$ 57'22	1°57'12
minimum elong	-2972 Oct 10 j 09:31	24° $\mathring{\mu}$ 31'02	2°07'36	minimum elong	-2964 Oct 27 j 09:52	11° $\mathring{\mu}$ 57'22	1°57'11
max. Earth dist.	-2972 Oct 09 j 21:56	24° $\mathring{\mu}$ 29'56	31.28356 AU	max. Earth dist.	-2964 Oct 27 j 05:40	11° $\mathring{\mu}$ 56'58	31.26071 AU
retrograde	-2971 Jan 21 j 02:04	26° $\mathring{\mu}$ 58'44		retrograde	-2963 Feb 07 j 19:58	14° $\mathring{\mu}$ 26'15	
opposition	-2971 Apr 10 j 09:49	25° $\mathring{\mu}$ 36'20	2°15'59	opposition	-2963 Apr 28 j 16:32	13° $\mathring{\mu}$ 03'35	2°04'07
min. Earth dist.	-2971 Apr 10 j 21:12	25° $\mathring{\mu}$ 35'34	29.28285 AU	min. Earth dist.	-2963 Apr 28 j 19:26	13° $\mathring{\mu}$ 03'23	29.25948 AU
direct	-2971 Jun 30 j 09:58	24° $\mathring{\mu}$ 12'18		direct	-2963 Jul 18 j 03:18	11° $\mathring{\mu}$ 40'09	
conjunction	-2971 Oct 12 j 18:27	26° $\mathring{\mu}$ 41'29	2°06'56	conjunction	-2963 Oct 29 j 19:03	14° $\mathring{\mu}$ 08'46	1°55'07
minimum elong	-2971 Oct 12 j 18:28	26° $\mathring{\mu}$ 41'29	2°06'56	minimum elong	-2963 Oct 29 j 19:04	14° $\mathring{\mu}$ 08'46	1°55'05
max. Earth dist.	-2971 Oct 12 j 08:08	26° $\mathring{\mu}$ 40'30	31.27923 AU	max. Earth dist.	-2963 Oct 29 j 15:37	14° $\mathring{\mu}$ 08'27	31.25537 AU
retrograde	-2970 Jan 23 j 13:03	29° $\mathring{\mu}$ 09'17		retrograde	-2962 Feb 10 j 07:38	16° $\mathring{\mu}$ 37'49	
opposition	-2970 Apr 12 j 22:29	27° $\mathring{\mu}$ 46'49	2°15'10	opposition	-2962 May 01 j 05:48	15° $\mathring{\mu}$ 15'04	2°01'48
min. Earth dist.	-2970 Apr 13 j 07:49	27° $\mathring{\mu}$ 46'11	29.27879 AU	min. Earth dist.	-2962 May 01 j 09:06	15° $\mathring{\mu}$ 14'51	29.25339 AU
direct	-2970 Jul 02 j 23:23	26° $\mathring{\mu}$ 22'49		direct	-2962 Jul 20 j 15:33	13° $\mathring{\mu}$ 51'40	
conjunction	-2970 Oct 15 j 03:29	28° $\mathring{\mu}$ 51'55	2°06'05	conjunction	-2962 Nov 01 j 04:23	16° $\mathring{\mu}$ 20'12	1°52'52
minimum elong	-2970 Oct 15 j 03:29	28° $\mathring{\mu}$ 51'55	2°06'05	minimum elong	-2962 Nov 01 j 04:23	16° $\mathring{\mu}$ 20'12	1°52'51
max. Earth dist.	-2970 Oct 14 j 17:47	28° $\mathring{\mu}$ 51'00	31.27560 AU	max. Earth dist.	-2962 Nov 01 j 01:51	16° $\mathring{\mu}$ 19'57	31.24864 AU
retrograde	-2970 Nov 15 j 07:40	0° $\mathring{\mu}$		retrograde	-2961 Feb 12 j 20:06	18° $\mathring{\mu}$ 49'20	
opposition	-2969 Jan 26 j 00:11	1° $\mathring{\mu}$ 19'50		opposition	-2961 May 03 j 18:41	17° $\mathring{\mu}$ 26'31	1°59'18
min. Earth dist.	-2969 Apr 13 j 19:27	30° $\mathring{\mu}$		min. Earth dist.	-2961 May 03 j 20:27	17° $\mathring{\mu}$ 26'23	29.24582 AU
direct	-2969 Apr 15 j 11:05	29° $\mathring{\mu}$ 57'19	2°14'10	direct	-2961 Jul 23 j 05:04	16° $\mathring{\mu}$ 03'08	
conjunction	-2969 Apr 15 j 20:04	29° $\mathring{\mu}$ 56'43	29.27570 AU	conjunction	-2961 Nov 03 j 13:35	18° $\mathring{\mu}$ 31'33	1°50'27
direct	-2969 Jul 05 j 10:00	28° $\mathring{\mu}$ 33'23		minimum elong	-2961 Nov 03 j 13:35	18° $\mathring{\mu}$ 31'33	1°50'25
conjunction	-2969 Sep 19 j 02:42	0° $\mathring{\mu}$		max. Earth dist.	-2961 Nov 03 j 11:09	18° $\mathring{\mu}$ 31'19	31.24052 AU
conjunction	-2969 Oct 17 j 12:33	1° $\mathring{\mu}$ 02'25	2°05'03	retrograde	-2960 Feb 15 j 07:42	21° $\mathring{\mu}$ 00'49	
minimum elong	-2969 Oct 17 j 12:34	1° $\mathring{\mu}$ 02'25	2°05'03	opposition	-2960 May 05 j 07:51	19° $\mathring{\mu}$ 37'52	1°56'39
max. Earth dist.	-2969 Oct 17 j 04:40	1° $\mathring{\mu}$ 01'40	31.27297 AU	min. Earth dist.	-2960 May 05 j 09:36	19° $\mathring{\mu}$ 37'45	29.23725 AU
retrograde	-2968 Jan 28 j 09:26	3° $\mathring{\mu}$ 30'29		direct	-2960 Jul 24 j 16:16	18° $\mathring{\mu}$ 14'30	
opposition	-2968 Apr 16 j 23:47	2° $\mathring{\mu}$ 07'56	2°12'58	conjunction	-2960 Nov 04 j 22:42	20° $\mathring{\mu}$ 42'47	1°47'53
min. Earth dist.	-2968 Apr 17 j 07:12	2° $\mathring{\mu}$ 07'26	29.27330 AU	minimum elong	-2960 Nov 04 j 22:42	20° $\mathring{\mu}$ 42'47	1°47'51
direct	-2968 Jul 06 j 22:29	0° $\mathring{\mu}$ 44'06		max. Earth dist.	-2960 Nov 04 j 22:04	20° $\mathring{\mu}$ 42'44	31.23169 AU
conjunction	-2968 Oct 18 j 21:24	3° $\mathring{\mu}$ 13'03	2°03'50	retrograde	-2959 Feb 16 j 17:08	23° $\mathring{\mu}$ 12'09	
minimum elong	-2968 Oct 18 j 21:24	3° $\mathring{\mu}$ 13'03	2°03'51	opposition	-2959 May 07 j 20:57	21° $\mathring{\mu}$ 49'06	1°53'49
max. Earth dist.	-2968 Oct 18 j 13:35	3° $\mathring{\mu}$ 12'18	31.27094 AU	min. Earth dist.	-2959 May 07 j 21:12	21° $\mathring{\mu}$ 49'05	29.22817 AU
retrograde	-2967 Jan 29 j 20:55	5° $\mathring{\mu}$ 41'16		direct	-2959 Jul 27 j 05:41	20° $\mathring{\mu}$ 25'44	
opposition	-2967 Apr 19 j 12:38	4° $\mathring{\mu}$ 18'43	2°11'35	conjunction	-2959 Nov 07 j 07:44	22° $\mathring{\mu}$ 53'54	1°45'09
min. Earth dist.	-2967 Apr 19 j 19:04	4° $\mathring{\mu}$ 18'17	29.27149 AU	minimum elong	-2959 Nov 07 j 07:44	22° $\mathring{\mu}$ 53'54	1°45'07
direct	-2967 Jul 09 j 08:04	2° $\mathring{\mu}$ 54'58		max. Earth dist.	-2959 Nov 07 j 07:07	22° $\mathring{\mu}$ 53'51	31.22277 AU
conjunction	-2967 Oct 21 j 06:31	5° $\mathring{\mu}$ 23'51	2°02'27	retrograde	-2958 Feb 19 j 04:41	25° $\mathring{\mu}$ 23'23	
minimum elong	-2967 Oct 21 j 06:32	5° $\mathring{\mu}$ 23'51	2°02'26	opposition	-2958 May 10 j 09:59	24° $\mathring{\mu}$ 00'13	1°50'50
max. Earth dist.	-2967 Oct 21 j 00:45	5° $\mathring{\mu}$ 23'19	31.26922 AU	min. Earth dist.	-2958 May 10 j 09:12	24° $\mathring{\mu}$ 00'17	29.21951 AU
retrograde	-2966 Feb 01 j 07:07	7° $\mathring{\mu}$ 52'15		direct	-2958 Jul 29 j 16:36	22° $\mathring{\mu}$ 36'51	
opposition	-2966 Apr 22 j 01:33	6° $\mathring{\mu}$ 29'41	2°10'00	conjunction	-2958 Nov 09 j 16:54	25° $\mathring{\mu}$ 04'56	1°42'17
min. Earth dist.	-2966 Apr 22 j 07:25	6° $\mathring{\mu}$ 29'17	29.26964 AU	minimum elong	-2958 Nov 09 j 16:54	25° $\mathring{\mu}$ 04'56	1°42'15
direct	-2966 Jul 11 j 19:23	5° $\mathring{\mu}$ 06'02		max. Earth dist.	-2958 Nov 09 j 18:28	25° $\mathring{\mu}$ 05'04	31.21440 AU
conjunction	-2966 Oct 23 j 15:27	7° $\mathring{\mu}$ 34'51	2°00'52	retrograde	-2957 Feb 21 j 14:42	27° $\mathring{\mu}$ 34'32	
minimum elong	-2966 Oct 23 j 15:28	7° $\mathring{\mu}$ 34'51	2°00'52	opposition	-2957 May 12 j 23:01	26° $\mathring{\mu}$ 11'17	1°47'41
max. Earth dist.	-2966 Oct 23 j 09:37	7° $\mathring{\mu}$ 34'18	31.26730 AU	min. Earth dist.	-2957 May 12 j 21:21	26° $\mathring{\mu}$ 11'24	29.21144 AU
retrograde	-2965 Feb 03 j 19:50	10° $\mathring{\mu}$ 03'26		direct	-2957 Aug 01 j 04:47	24° $\mathring{\mu}$ 47'57	
opposition	-2965 Apr 24 j 14:27	8° $\mathring{\mu}$ 40'50	2°08'13	conjunction	-2957 Nov 12 j 01:55	27° $\mathring{\mu}$ 15'55	1°39'16
min. Earth dist.	-2965 Apr 24 j 18:55	8° $\mathring{\mu}$ 40'32	29.26739 AU	minimum elong	-2957 Nov 12 j 01:56	27° $\mathring{\mu}$ 15'55	1°39'12
direct	-2965 Jul 14 j 05:38	7° $\mathring{\mu}$ 17'16		max. Earth dist.	-2957 Nov 12 j 03:45	27° $\mathring{\mu}$ 16'05	31.20688 AU
conjunction	-2965 Oct 26 j 00:40	9° $\mathring{\mu}$ 46'02	1°59'07	retrograde	-2956 Feb 24 j 02:33	29° $\mathring{\mu}$ 45'41	
minimum elong	-2965 Oct 26 j 00:41	9° $\mathring{\mu}$ 46'02	1°59'06	opposition	-2956 May 14 j 11:57	28° $\mathring{\mu}$ 22'22	1°44'22
max. Earth dist.	-2965 Oct 25 j 20:21	9° $\mathring{\mu}$ 45'38	31.26453 AU	min. Earth dist.	-2956 May 14 j 08:30	28° $\mathring{\mu}$ 22'36	29.20435 AU

Attention, astronomical year style is used: The year -2956 in astronomical counting style is the year 2957 BCE in historical counting style.

direct	-2956 Aug 02 j 14:55	26°♁59'03		retrograde	-2948 Mar 13 j 03:34	17°♍19'35	
				opposition	-2948 Jun 01 j 21:12	15°♍55'49	1°12'45
conjunction	-2956 Nov 13 j 11:08	29°♁26'58	1°36'05	min. Earth dist.	-2948 Jun 01 j 11:55	15°♍56'27	29.14371 AU
minimum elong	-2956 Nov 13 j 11:08	29°♁26'58	1°36'03		-2948 Jul 09 j 11:45	15°♍	
max. Earth dist.	-2956 Nov 13 j 14:47	29°♁27'19	31.20021 AU	direct	-2948 Aug 20 j 10:28	14°♍32'54	
	-2956 Nov 28 j 02:12	0°♍			-2948 Sep 29 j 17:03	15°♍	
retrograde	-2955 Feb 25 j 13:33	1°♍56'54					
opposition	-2955 May 17 j 01:08	0°♍33'31	1°40'54	conjunction	-2948 Nov 30 j 14:51	17°♍00'26	1°06'02
min. Earth dist.	-2955 May 16 j 21:23	0°♍33'46	29.19799 AU	minimum elong	-2948 Nov 30 j 14:51	17°♍00'26	1°05'58
	-2955 Jun 07 j 07:28	30°♍		max. Earth dist.	-2948 Dec 01 j 00:07	17°♍01'19	31.13767 AU
direct	-2955 Aug 05 j 01:20	29°♁10'17		retrograde	-2947 Mar 15 j 15:26	19°♍31'41	
	-2955 Sep 29 j 15:12	0°♍		opposition	-2947 Jun 04 j 10:21	18°♍07'49	1°08'16
				min. Earth dist.	-2947 Jun 03 j 23:42	18°♍08'32	29.13237 AU
conjunction	-2955 Nov 15 j 20:14	1°♍38'08	1°32'47	direct	-2947 Aug 22 j 21:05	16°♍44'53	
minimum elong	-2955 Nov 15 j 20:15	1°♍38'08	1°32'43				
max. Earth dist.	-2955 Nov 16 j 00:37	1°♍38'33	31.19429 AU	conjunction	-2947 Dec 03 j 00:28	19°♍12'21	1°01'47
retrograde	-2954 Feb 28 j 02:28	4°♍08'14		minimum elong	-2947 Dec 03 j 00:28	19°♍12'21	1°01'42
opposition	-2954 May 19 j 14:10	2°♍44'49	1°37'17	max. Earth dist.	-2947 Dec 03 j 11:16	19°♍13'22	31.12626 AU
min. Earth dist.	-2954 May 19 j 08:20	2°♍45'13	29.19214 AU	retrograde	-2946 Mar 18 j 02:01	21°♍43'44	
direct	-2954 Aug 07 j 11:37	1°♍21'38		opposition	-2946 Jun 06 j 23:30	20°♍19'45	1°03'41
				min. Earth dist.	-2946 Jun 06 j 12:45	20°♍20'29	29.12108 AU
conjunction	-2954 Nov 18 j 05:32	3°♍49'27	1°29'19	direct	-2946 Aug 25 j 07:42	18°♍56'48	
minimum elong	-2954 Nov 18 j 05:33	3°♍49'27	1°29'17				
max. Earth dist.	-2954 Nov 18 j 10:48	3°♍49'57	31.18849 AU	conjunction	-2946 Dec 05 j 10:09	21°♍24'12	0°57'27
retrograde	-2953 Mar 02 j 14:49	6°♍19'45		minimum elong	-2946 Dec 05 j 10:09	21°♍24'12	0°57'23
opposition	-2953 May 22 j 03:12	4°♍56'17	1°33'31	max. Earth dist.	-2946 Dec 05 j 21:40	21°♍25'17	31.11537 AU
min. Earth dist.	-2953 May 21 j 21:37	4°♍56'40	29.18629 AU	retrograde	-2945 Mar 20 j 14:39	23°♍55'43	
direct	-2953 Aug 09 j 22:38	3°♍33'11		opposition	-2945 Jun 09 j 12:18	22°♍31'39	0°59'00
				min. Earth dist.	-2945 Jun 08 j 23:30	22°♍32'31	29.11058 AU
conjunction	-2953 Nov 20 j 14:59	6°♍00'58	1°25'44	direct	-2945 Aug 27 j 18:00	21°♍08'41	
minimum elong	-2953 Nov 20 j 15:00	6°♍00'58	1°25'41				
max. Earth dist.	-2953 Nov 20 j 21:31	6°♍01'35	31.18257 AU	conjunction	-2945 Dec 07 j 19:49	23°♍36'03	0°53'02
retrograde	-2952 Mar 04 j 04:10	8°♍31'26		minimum elong	-2945 Dec 07 j 19:50	23°♍36'03	0°52'57
opposition	-2952 May 23 j 16:19	7°♍07'57	1°29'37	max. Earth dist.	-2945 Dec 08 j 08:14	23°♍37'13	31.10534 AU
min. Earth dist.	-2952 May 23 j 09:01	7°♍08'26	29.17995 AU	retrograde	-2944 Mar 22 j 02:59	26°♍07'43	
direct	-2952 Aug 11 j 11:03	5°♍44'54		opposition	-2944 Jun 11 j 01:24	24°♍43'34	0°54'14
				min. Earth dist.	-2944 Jun 10 j 12:32	24°♍44'26	29.10117 AU
conjunction	-2952 Nov 22 j 00:17	8°♍12'40	1°22'01	direct	-2944 Aug 29 j 04:47	23°♍20'38	
minimum elong	-2952 Nov 22 j 00:18	8°♍12'40	1°21'58				
max. Earth dist.	-2952 Nov 22 j 06:54	8°♍13'17	31.17585 AU	conjunction	-2944 Dec 09 j 05:31	25°♍47'57	0°48'31
retrograde	-2951 Mar 06 j 16:56	10°♍43'19		minimum elong	-2944 Dec 09 j 05:31	25°♍47'57	0°48'27
opposition	-2951 May 26 j 05:39	9°♍19'47	1°25'35	max. Earth dist.	-2944 Dec 09 j 19:36	25°♍49'17	31.09661 AU
min. Earth dist.	-2951 May 25 j 22:26	9°♍20'16	29.17280 AU	retrograde	-2943 Mar 24 j 16:28	28°♍19'46	
direct	-2951 Aug 13 j 21:33	7°♍56'48		opposition	-2943 Jun 13 j 14:22	26°♍55'33	0°49'22
				min. Earth dist.	-2943 Jun 12 j 23:29	26°♍56'34	29.09291 AU
conjunction	-2951 Nov 24 j 09:59	10°♍24'31	1°18'11	direct	-2943 Aug 31 j 16:17	25°♍32'39	
minimum elong	-2951 Nov 24 j 10:00	10°♍24'31	1°18'08				
max. Earth dist.	-2951 Nov 24 j 18:09	10°♍25'17	31.16815 AU	conjunction	-2943 Dec 11 j 15:18	27°♍59'57	0°43'57
retrograde	-2950 Mar 09 j 04:02	12°♍55'20		minimum elong	-2943 Dec 11 j 15:18	27°♍59'57	0°43'52
opposition	-2950 May 28 j 18:47	11°♍31'44	1°21'25	max. Earth dist.	-2943 Dec 12 j 05:37	28°♍01'18	31.08891 AU
min. Earth dist.	-2950 May 28 j 10:26	11°♍32'18	29.16436 AU		-2942 Feb 10 j 12:30	0°♁	
direct	-2950 Aug 16 j 10:40	10°♍08'48		retrograde	-2942 Mar 27 j 05:29	0°♁31'56	
					-2942 May 12 j 12:41	30°♍	
conjunction	-2950 Nov 26 j 19:34	12°♍36'28	1°14'14	opposition	-2942 Jun 16 j 03:20	29°♍07'41	0°44'26
minimum elong	-2950 Nov 26 j 19:34	12°♍36'28	1°14'11	min. Earth dist.	-2942 Jun 15 j 12:21	29°♍08'42	29.08573 AU
max. Earth dist.	-2950 Nov 27 j 03:12	12°♍37'12	31.15914 AU	direct	-2942 Sep 03 j 01:55	27°♍44'48	
	-2949 Feb 18 j 07:46	15°♍			-2942 Dec 08 j 17:39	0°♁	
retrograde	-2949 Mar 11 j 17:00	15°♍07'27					
	-2949 Apr 02 j 08:20	15°♍		conjunction	-2942 Dec 14 j 01:19	0°♁12'06	0°39'18
opposition	-2949 May 31 j 08:01	13°♍43'47	1°17'09	minimum elong	-2942 Dec 14 j 01:19	0°♁12'06	0°39'14
min. Earth dist.	-2949 May 30 j 23:10	13°♍44'23	29.15467 AU	max. Earth dist.	-2942 Dec 14 j 17:29	0°♁13'38	31.08209 AU
direct	-2949 Aug 18 j 21:53	12°♍20'51		retrograde	-2941 Mar 29 j 17:57	2°♁44'15	
				opposition	-2941 Jun 18 j 16:15	1°♁19'57	0°39'26
conjunction	-2949 Nov 29 j 05:16	14°♍48'28	1°10'11	min. Earth dist.	-2941 Jun 17 j 23:55	1°♁21'04	29.07905 AU
minimum elong	-2949 Nov 29 j 05:16	14°♍48'28	1°10'07		-2941 Aug 23 j 12:10	30°♍	
max. Earth dist.	-2949 Nov 29 j 14:33	14°♍49'21	31.14880 AU	direct	-2941 Sep 05 j 14:57	29°♍57'08	
	-2949 Dec 04 j 06:51	15°♍			-2941 Sep 18 j 14:17	0°♁	

Attention, astronomical year style is used: The year -2941 in astronomical counting style is the year 2942 BCE in historical counting style.

conjunction	-2941 Dec 16 j 11:11	2°♂24'26	0°34'35	desc. node	-2933 Feb 04 j 17:04	19°♂10'12	
minimum elong	-2941 Dec 16 j 11:11	2°♂24'26	0°34'30	retrograde	-2933 Apr 16 j 23:19	20°♂27'00	
max. Earth dist.	-2941 Dec 17 j 03:06	2°♂25'56	31.07563 AU	opposition	-2933 Jul 06 j 23:54	19°♂02'12	0°-2'-11
retrograde	-2940 Mar 31 j 08:26	4°♂56'44		min. Earth dist.	-2933 Jul 06 j 04:15	19°♂03'33	29.00780 AU
opposition	-2940 Jun 20 j 05:18	3°♂32'25	0°34'22	direct	-2933 Sep 23 j 07:06	17°♂39'21	
min. Earth dist.	-2940 Jun 19 j 12:24	3°♂33'34	29.07266 AU				
direct	-2940 Sep 07 j 02:06	2°♂09'38		conjunction	-2932 Jan 02 j 23:30	20°♂06'35	0°-4'-31
				minimum elong	-2932 Jan 02 j 23:30	20°♂06'35	0°04'38
conjunction	-2940 Dec 17 j 21:28	4°♂36'56	0°29'49	behind sun begin	-2932 Jan 02 j 17:12	20°♂06'01	
minimum elong	-2940 Dec 17 j 21:28	4°♂36'56	0°29'44	behind sun end	-2932 Jan 03 j 05:48	20°♂07'09	
max. Earth dist.	-2940 Dec 18 j 15:04	4°♂38'36	31.06910 AU	max. Earth dist.	-2932 Jan 03 j 20:52	20°♂08'36	31.00265 AU
retrograde	-2939 Apr 02 j 19:42	7°♂09'25		retrograde	-2932 Apr 18 j 12:16	22°♂39'54	
opposition	-2939 Jun 22 j 18:20	5°♂45'03	0°29'14	opposition	-2932 Jul 08 j 12:37	21°♂15'02	0°-7'-27
min. Earth dist.	-2939 Jun 22 j 01:07	5°♂46'13	29.06588 AU	min. Earth dist.	-2932 Jul 07 j 15:38	21°♂16'29	28.99823 AU
direct	-2939 Sep 09 j 14:07	4°♂22'19		direct	-2932 Sep 24 j 20:05	19°♂52'11	
conjunction	-2939 Dec 20 j 07:45	6°♂49'36	0°25'00	conjunction	-2931 Jan 04 j 10:15	22°♂19'26	0°-9'-25
minimum elong	-2939 Dec 20 j 07:45	6°♂49'36	0°24'55	minimum elong	-2931 Jan 04 j 10:15	22°♂19'26	0°09'31
max. Earth dist.	-2939 Dec 21 j 01:07	6°♂51'15	31.06207 AU	behind sun begin	-2931 Jan 04 j 04:52	22°♂18'57	
retrograde	-2938 Apr 05 j 08:43	9°♂22'14		behind sun end	-2931 Jan 04 j 15:37	22°♂19'55	
opposition	-2938 Jun 25 j 07:22	7°♂57'50	0°24'04	max. Earth dist.	-2931 Jan 05 j 07:17	22°♂21'25	30.99370 AU
min. Earth dist.	-2938 Jun 24 j 13:15	7°♂59'04	29.05839 AU	retrograde	-2931 Apr 21 j 03:17	24°♂52'52	
direct	-2938 Sep 12 j 01:06	6°♂35'07		min. Earth dist.	-2931 Jul 10 j 03:49	23°♂29'26	28.98998 AU
				opposition	-2931 Jul 11 j 01:19	23°♂27'57	0°-12'-43
conjunction	-2938 Dec 22 j 18:20	9°♂02'25	0°20'09	direct	-2931 Sep 27 j 07:00	22°♂05'06	
minimum elong	-2938 Dec 22 j 18:21	9°♂02'25	0°20'04				
max. Earth dist.	-2938 Dec 23 j 12:32	9°♂04'08	31.05390 AU	conjunction	-2930 Jan 06 j 21:14	24°♂32'23	0°-14'-20
retrograde	-2937 Apr 07 j 20:04	11°♂35'11		minimum elong	-2930 Jan 06 j 21:14	24°♂32'23	0°14'26
opposition	-2937 Jun 27 j 20:20	10°♂10'43	0°18'51	behind sun begin	-2930 Jan 06 j 18:16	24°♂32'07	
min. Earth dist.	-2937 Jun 27 j 02:43	10°♂11'55	29.04962 AU	behind sun end	-2930 Jan 07 j 00:13	24°♂32'40	
direct	-2937 Sep 14 j 12:09	8°♂48'00		max. Earth dist.	-2930 Jan 07 j 19:59	24°♂34'32	30.98593 AU
				retrograde	-2930 Apr 23 j 14:58	27°♂05'58	
conjunction	-2937 Dec 25 j 04:56	11°♂15'17	0°15'16	opposition	-2930 Jul 13 j 13:59	25°♂41'01	0°-17'-58
minimum elong	-2937 Dec 25 j 04:56	11°♂15'17	0°15'11	min. Earth dist.	-2930 Jul 12 j 16:01	25°♂42'32	28.98273 AU
behind sun begin	-2937 Dec 25 j 02:37	11°♂15'04		direct	-2930 Sep 29 j 18:48	24°♂18'12	
behind sun end	-2937 Dec 25 j 07:14	11°♂15'30					
max. Earth dist.	-2937 Dec 25 j 23:18	11°♂17'01	31.04466 AU	conjunction	-2929 Jan 09 j 08:13	26°♂45'31	0°-19'-13
retrograde	-2936 Apr 09 j 09:13	13°♂48'10		minimum elong	-2929 Jan 09 j 08:13	26°♂45'31	0°19'19
opposition	-2936 Jun 29 j 09:19	12°♂23'38	0°13'37	max. Earth dist.	-2929 Jan 10 j 06:51	26°♂47'39	30.97925 AU
min. Earth dist.	-2936 Jun 28 j 14:16	12°♂24'56	29.03977 AU	retrograde	-2929 Apr 26 j 04:52	29°♂19'13	
direct	-2936 Sep 15 j 23:14	11°♂00'54		min. Earth dist.	-2929 Jul 15 j 03:35	27°♂55'51	28.97652 AU
				opposition	-2929 Jul 16 j 02:32	27°♂54'17	0°-23'-12
conjunction	-2936 Dec 26 j 15:25	13°♂28'09	0°10'22	direct	-2929 Oct 02 j 05:53	26°♂31'28	
minimum elong	-2936 Dec 26 j 15:26	13°♂28'09	0°10'18				
behind sun begin	-2936 Dec 26 j 10:18	13°♂27'41		conjunction	-2928 Jan 11 j 19:23	28°♂58'51	0°-24'-6
behind sun end	-2936 Dec 26 j 20:33	13°♂28'37		minimum elong	-2928 Jan 11 j 19:23	28°♂58'51	0°24'13
max. Earth dist.	-2936 Dec 27 j 10:01	13°♂29'55	31.03430 AU	max. Earth dist.	-2928 Jan 12 j 19:04	29°♂01'06	30.97328 AU
retrograde	-2935 Apr 11 j 21:09	16°♂01'10					
opposition	-2935 Jul 01 j 22:24	14°♂36'32	0°08'21	retrograde	-2928 Apr 27 j 17:23	1°♂32'43	
min. Earth dist.	-2935 Jul 01 j 03:58	14°♂37'48	29.02909 AU	opposition	-2928 Jul 17 j 15:17	0°♂07'45	0°-28'-24
direct	-2935 Sep 18 j 09:52	13°♂13'46		min. Earth dist.	-2928 Jul 16 j 16:42	0°♂09'19	28.97084 AU
conjunction	-2935 Dec 29 j 02:11	15°♂41'00	0°05'28	direct	-2928 Jul 22 j 08:11	30°R♂	
minimum elong	-2935 Dec 29 j 02:10	15°♂41'00	0°05'23		-2928 Oct 03 j 16:51	28°♂45'00	
behind sun begin	-2935 Dec 28 j 19:57	15°♂40'26			-2928 Dec 11 j 00:19	0°♂	
behind sun end	-2935 Dec 29 j 08:23	15°♂41'33		conjunction	-2927 Jan 13 j 06:38	1°♂12'26	0°-28'-57
max. Earth dist.	-2935 Dec 29 j 21:57	15°♂42'52	31.02349 AU	minimum elong	-2927 Jan 13 j 06:38	1°♂12'26	0°29'03
retrograde	-2934 Apr 14 j 10:05	18°♂14'05		max. Earth dist.	-2927 Jan 14 j 06:37	1°♂14'42	30.96780 AU
opposition	-2934 Jul 04 j 11:02	16°♂49'23	0°03'05	retrograde	-2927 Apr 30 j 06:55	3°♂46'26	
min. Earth dist.	-2934 Jul 03 j 15:10	16°♂50'44	29.01820 AU	min. Earth dist.	-2927 Jul 19 j 04:07	2°♂23'07	28.96533 AU
direct	-2934 Sep 20 j 21:17	15°♂26'34		opposition	-2927 Jul 20 j 03:54	2°♂21'28	0°-33'-34
				direct	-2927 Oct 06 j 03:53	0°♂58'44	
conjunction	-2934 Dec 31 j 12:48	17°♂53'48	0°00'29	conjunction	-2926 Jan 15 j 18:10	3°♂26'14	0°-33'-45
minimum elong	-2934 Dec 31 j 12:48	17°♂53'48	0°00'24	minimum elong	-2926 Jan 15 j 18:09	3°♂26'14	0°33'52
behind sun begin	-2934 Dec 31 j 06:23	17°♂53'13		max. Earth dist.	-2926 Jan 16 j 18:03	3°♂28'29	30.96200 AU
behind sun end	-2934 Dec 31 j 19:12	17°♂54'22		retrograde	-2926 May 02 j 18:37	6°♂00'22	
max. Earth dist.	-2933 Jan 01 j 08:22	17°♂55'38	31.01270 AU				

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Attention, astronomical year style is used: The year -2926 in astronomical counting style is the year 2927 BCE in historical counting style.

opposition	-2926 Jul 22 j 16:30	4°☾35°24	0°-38'-41	conjunction	-2917 Feb 05 j 05:59	23°☾32°06	-1°-13'-58
min. Earth dist.	-2926 Jul 21 j 17:43	4°☾36°58	28.95933 AU	minimum elong	-2917 Feb 05 j 05:59	23°☾32°06	1°14'03
direct	-2926 Oct 08 j 13:48	3°☾12°40		max. Earth dist.	-2917 Feb 06 j 07:11	23°☾34°29	30.88840 AU
				retrograde	-2917 May 23 j 17:48	26°☾06°45	
conjunction	-2925 Jan 18 j 05:57	5°☾40°14	0°-38'-31	min. Earth dist.	-2917 Aug 11 j 07:59	24°☾42°58	28.88671 AU
minimum elong	-2925 Jan 18 j 05:57	5°☾40°14	0°38'37	opposition	-2917 Aug 12 j 07:36	24°☾41°19	-1°-21'-17
max. Earth dist.	-2925 Jan 19 j 06:30	5°☾42°33	30.95557 AU	direct	-2917 Oct 28 j 20:13	23°☾18°10	
retrograde	-2925 May 05 j 07:51	8°☾14°28					
min. Earth dist.	-2925 Jul 24 j 05:22	6°☾51°07	28.95235 AU	conjunction	-2916 Feb 07 j 18:17	25°☾46°07	-1°-17'-58
opposition	-2925 Jul 25 j 05:04	6°☾49°29	0°-43'-45	minimum elong	-2916 Feb 07 j 18:17	25°☾46°06	1°18'04
direct	-2925 Oct 11 j 00:36	5°☾26°44		max. Earth dist.	-2916 Feb 08 j 20:23	25°☾48°34	30.88362 AU
				retrograde	-2916 May 25 j 07:15	28°☾20°49	
conjunction	-2924 Jan 20 j 17:33	7°☾54°21	0°-43'-13	opposition	-2916 Aug 13 j 19:38	26°☾55°24	-1°-25'-30
minimum elong	-2924 Jan 20 j 17:33	7°☾54°21	0°43'20	min. Earth dist.	-2916 Aug 12 j 18:57	26°☾57°07	28.88241 AU
max. Earth dist.	-2924 Jan 21 j 17:15	7°☾56°35	30.94794 AU	direct	-2916 Oct 30 j 07:10	25°☾32°14	
retrograde	-2924 May 06 j 21:23	10°☾28°41					
opposition	-2924 Jul 26 j 17:50	9°☾03°39	0°-48'-45	conjunction	-2915 Feb 09 j 06:46	28°☾00°17	-1°-21'-51
min. Earth dist.	-2924 Jul 25 j 19:01	9°☾05°14	28.94422 AU	minimum elong	-2915 Feb 09 j 06:46	28°☾00°17	1°21'56
direct	-2924 Oct 12 j 10:30	7°☾40°52		max. Earth dist.	-2915 Feb 10 j 08:07	28°☾02°40	30.87967 AU
					-2915 Apr 10 j 18:40	0°≈	
conjunction	-2923 Jan 22 j 05:34	10°☾08°30	0°-47'-52	retrograde	-2915 May 27 j 20:14	0°≈35°04	
minimum elong	-2923 Jan 22 j 05:34	10°☾08°30	0°47'58		-2915 Jul 15 j 03:24	30°R☾	
max. Earth dist.	-2923 Jan 23 j 06:15	10°☾10°50	30.93923 AU	min. Earth dist.	-2915 Aug 15 j 08:00	29°☾11°19	28.87889 AU
retrograde	-2923 May 09 j 10:32	12°☾42°53		opposition	-2915 Aug 16 j 07:41	29°☾09°40	-1°-29'-36
min. Earth dist.	-2923 Jul 28 j 06:58	11°☾19°24	28.93500 AU	direct	-2915 Nov 01 j 16:34	27°☾46°30	
opposition	-2923 Jul 29 j 06:17	11°☾17°47	0°-53'-41		-2914 Feb 05 j 07:53	0°≈	
direct	-2923 Oct 14 j 23:33	9°☾54°57					
				conjunction	-2914 Feb 11 j 19:36	0°≈14°39	-1°-25'-37
conjunction	-2922 Jan 24 j 17:27	12°☾22°37	0°-52'-26	minimum elong	-2914 Feb 11 j 19:36	0°≈14°39	1°25'44
minimum elong	-2922 Jan 24 j 17:27	12°☾22°37	0°52'33	max. Earth dist.	-2914 Feb 12 j 21:53	0°≈17°08	30.87622 AU
max. Earth dist.	-2922 Jan 25 j 17:03	12°☾24°50	30.92968 AU	retrograde	-2914 May 30 j 09:13	2°≈49°30	
retrograde	-2922 May 12 j 01:12	14°☾57°02		opposition	-2914 Aug 18 j 19:38	1°≈24°08	-1°-33'-33
opposition	-2922 Jul 31 j 18:44	13°☾31°52	0°-58'-31	min. Earth dist.	-2914 Aug 17 j 19:39	1°≈25°49	28.87543 AU
min. Earth dist.	-2922 Jul 30 j 19:39	13°☾33°27	28.92531 AU	direct	-2914 Nov 04 j 04:40	0°≈00°59	
direct	-2922 Oct 17 j 10:34	12°☾08°56					
				conjunction	-2913 Feb 14 j 08:21	2°≈29°15	-1°-29'-15
conjunction	-2921 Jan 27 j 05:27	14°☾36°37	0°-56'-55	minimum elong	-2913 Feb 14 j 08:21	2°≈29°15	1°29'21
minimum elong	-2921 Jan 27 j 05:27	14°☾36°37	0°57'02	max. Earth dist.	-2913 Feb 15 j 09:12	2°≈31°35	30.87258 AU
max. Earth dist.	-2921 Jan 28 j 06:13	14°☾38°58	30.91978 AU	retrograde	-2913 Jun 01 j 23:49	5°≈04°10	
retrograde	-2921 May 14 j 13:03	17°☾11°05		min. Earth dist.	-2913 Aug 20 j 08:18	3°≈40°27	28.87165 AU
min. Earth dist.	-2921 Aug 02 j 07:52	15°☾47°26	28.91555 AU	opposition	-2913 Aug 21 j 07:40	3°≈38°49	-1°-37'-22
opposition	-2921 Aug 03 j 06:59	15°☾45°49	-1°-3'-17	direct	-2913 Nov 06 j 14:54	2°≈15°37	
direct	-2921 Oct 19 j 22:39	14°☾22°50					
				conjunction	-2912 Feb 16 j 21:28	4°≈44°00	-1°-32'-45
conjunction	-2920 Jan 29 j 17:26	16°☾50°32	-1°-1'-20	minimum elong	-2912 Feb 16 j 21:27	4°≈44°00	1°32'52
minimum elong	-2920 Jan 29 j 17:26	16°☾50°32	1°01'27	max. Earth dist.	-2912 Feb 17 j 22:55	4°≈46°24	30.86832 AU
max. Earth dist.	-2920 Jan 30 j 17:43	16°☾52°50	30.91038 AU	retrograde	-2912 Jun 03 j 12:41	7°≈18°58	
retrograde	-2920 May 16 j 04:01	19°☾25°02		opposition	-2912 Aug 22 j 19:39	5°≈53°37	-1°-41'-2
opposition	-2920 Aug 04 j 19:14	17°☾59°42	-1°-7'-56	min. Earth dist.	-2912 Aug 21 j 20:48	5°≈55°13	28.86698 AU
min. Earth dist.	-2920 Aug 03 j 19:28	18°☾01°21	28.90664 AU	direct	-2912 Nov 08 j 02:38	4°≈30°24	
direct	-2920 Oct 21 j 10:46	16°☾36°38					
				conjunction	-2911 Feb 18 j 10:33	6°≈58°52	-1°-36'-7
conjunction	-2919 Jan 31 j 05:29	19°☾04°23	-1°-5'-38	minimum elong	-2911 Feb 18 j 10:32	6°≈58°52	1°36'12
minimum elong	-2919 Jan 31 j 05:29	19°☾04°23	1°05'44	max. Earth dist.	-2911 Feb 19 j 10:41	7°≈01°08	30.86324 AU
max. Earth dist.	-2919 Feb 01 j 06:37	19°☾06°46	30.90180 AU	retrograde	-2911 Jun 06 j 04:28	9°≈33°50	
retrograde	-2919 May 18 j 16:31	21°☾38°55		min. Earth dist.	-2911 Aug 24 j 08:51	8°≈10°04	28.86149 AU
min. Earth dist.	-2919 Aug 06 j 08:14	20°☾15°09	28.89870 AU	opposition	-2911 Aug 25 j 07:36	8°≈08°28	-1°-44'-33
opposition	-2919 Aug 07 j 07:29	20°☾13°32	-1°-12'-30	direct	-2911 Nov 10 j 15:12	6°≈45°12	
direct	-2919 Oct 23 j 22:37	18°☾50°26					
				conjunction	-2910 Feb 20 j 23:49	9°≈13°45	-1°-39'-20
conjunction	-2918 Feb 02 j 17:45	21°☾18°13	-1°-9'-51	minimum elong	-2910 Feb 20 j 23:49	9°≈13°45	1°39'26
minimum elong	-2918 Feb 02 j 17:44	21°☾18°13	1°09'57	max. Earth dist.	-2910 Feb 22 j 00:02	9°≈16°02	30.85723 AU
max. Earth dist.	-2918 Feb 03 j 18:58	21°☾20°36	30.89451 AU	retrograde	-2910 Jun 08 j 17:02	11°≈48°43	
retrograde	-2918 May 21 j 05:57	23°☾52°48		opposition	-2910 Aug 27 j 19:23	10°≈23°19	-1°-47'-55
opposition	-2918 Aug 09 j 19:25	22°☾27°23	-1°-16'-57	min. Earth dist.	-2910 Aug 26 j 21:50	10°≈24°49	28.85527 AU
min. Earth dist.	-2918 Aug 08 j 19:01	22°☾29°05	28.89209 AU	direct	-2910 Nov 13 j 03:29	8°≈59°58	
direct	-2918 Oct 26 j 10:10	21°☾04°14					

Attention, astronomical year style is used: The year -2909 in astronomical counting style is the year 2910 BCE in historical counting style.

conjunction	-2909 Feb 23 j 13:01	11° \approx 28'35	-1°-42'-24	conjunction	-2901 Mar 14 j 00:53	29° \approx 26'35	-2°-1'00
minimum elong	-2909 Feb 23 j 13:01	11° \approx 28'35	1°42'29	minimum elong	-2901 Mar 14 j 00:53	29° \approx 26'35	2°01'03
max. Earth dist.	-2909 Feb 24 j 12:40	11° \approx 30'49	30.85098 AU	max. Earth dist.	-2901 Mar 14 j 22:36	29° \approx 28'37	30.83434 AU
retrograde	-2909 Jun 11 j 07:03	14° \approx 03'31			-2901 Mar 28 j 23:46	0° \approx	
min. Earth dist.	-2909 Aug 29 j 08:55	12° \approx 39'39	28.84908 AU	retrograde	-2901 Jun 29 j 13:25	2° \approx 01'19	
opposition	-2909 Aug 30 j 07:03	12° \approx 38'05	-1°-51'-7	min. Earth dist.	-2901 Sep 16 j 07:58	0° \approx 37'19	28.83657 AU
direct	-2909 Nov 15 j 15:46	11° \approx 14'40		opposition	-2901 Sep 17 j 02:32	0° \approx 36'01	-2°-10'-14
					-2901 Oct 09 j 00:24	30° \approx R \approx	
conjunction	-2908 Feb 26 j 02:05	13° \approx 43'20	-1°-45'-19	direct	-2901 Dec 03 j 08:46	29° \approx 12'17	
minimum elong	-2908 Feb 26 j 02:05	13° \approx 43'20	1°45'24		-2900 Jan 26 j 02:27	0° \approx	
max. Earth dist.	-2908 Feb 27 j 01:20	13° \approx 45'32	30.84486 AU	conjunction	-2900 Mar 15 j 14:49	1° \approx 41'44	-2°-2'-31
	-2908 Apr 01 j 14:22	15° \approx		minimum elong	-2900 Mar 15 j 14:49	1° \approx 41'44	2°02'35
retrograde	-2908 Jun 12 j 19:26	16° \approx 18'15		max. Earth dist.	-2900 Mar 16 j 11:25	1° \approx 43'39	30.83561 AU
	-2908 Aug 27 j 12:13	15° \approx R \approx		retrograde	-2900 Jul 01 j 04:30	4° \approx 16'25	
opposition	-2908 Aug 31 j 18:49	14° \approx 52'47	-1°-54'-8	opposition	-2900 Sep 18 j 13:52	2° \approx 51'09	-2°-11'-46
min. Earth dist.	-2908 Aug 30 j 21:52	14° \approx 54'16	28.84339 AU	min. Earth dist.	-2900 Sep 17 j 19:13	2° \approx 52'28	28.83750 AU
direct	-2908 Nov 17 j 02:44	13° \approx 29'18		direct	-2900 Dec 04 j 21:16	1° \approx 27'23	
	-2907 Feb 01 j 06:24	15° \approx					
conjunction	-2907 Feb 27 j 15:27	15° \approx 58'02	-1°-48'-4				
minimum elong	-2907 Feb 27 j 15:27	15° \approx 58'02	1°48'08				
max. Earth dist.	-2907 Feb 28 j 15:05	16° \approx 00'15	30.83962 AU				
retrograde	-2907 Jun 15 j 09:12	18° \approx 32'54					
min. Earth dist.	-2907 Sep 02 j 08:29	17° \approx 08'57	28.83870 AU				
opposition	-2907 Sep 03 j 06:10	17° \approx 07'25	-1°-56'-59				
direct	-2907 Nov 19 j 14:22	15° \approx 43'51					
conjunction	-2906 Mar 02 j 04:46	18° \approx 12'40	-1°-50'-39				
minimum elong	-2906 Mar 02 j 04:46	18° \approx 12'40	1°50'44				
max. Earth dist.	-2906 Mar 03 j 03:25	18° \approx 14'48	30.83547 AU				
retrograde	-2906 Jun 17 j 20:34	20° \approx 47'31					
opposition	-2906 Sep 05 j 17:44	19° \approx 22'01	-1°-59'-40				
min. Earth dist.	-2906 Sep 04 j 21:06	19° \approx 23'28	28.83537 AU				
direct	-2906 Nov 22 j 00:23	17° \approx 58'24					
conjunction	-2905 Mar 04 j 18:09	20° \approx 27'17	-1°-53'-4				
minimum elong	-2905 Mar 04 j 18:08	20° \approx 27'17	1°53'08				
max. Earth dist.	-2905 Mar 05 j 17:43	20° \approx 29'30	30.83278 AU				
retrograde	-2905 Jun 20 j 08:14	23° \approx 02'07					
min. Earth dist.	-2905 Sep 07 j 08:01	21° \approx 38'07	28.83343 AU				
opposition	-2905 Sep 08 j 05:07	21° \approx 36'37	-2°-2'-10				
direct	-2905 Nov 24 j 12:08	20° \approx 12'58					
conjunction	-2904 Mar 06 j 07:32	22° \approx 41'57	-1°-55'-19				
minimum elong	-2904 Mar 06 j 07:32	22° \approx 41'57	1°55'24				
max. Earth dist.	-2904 Mar 07 j 05:46	22° \approx 44'02	30.83162 AU				
retrograde	-2904 Jun 21 j 21:59	25° \approx 16'45					
opposition	-2904 Sep 09 j 16:31	23° \approx 51'18	-2°-4'-28				
min. Earth dist.	-2904 Sep 08 j 19:55	23° \approx 52'45	28.83308 AU				
direct	-2904 Nov 25 j 21:33	22° \approx 27'36					
conjunction	-2903 Mar 08 j 21:14	24° \approx 56'42	-1°-57'-24				
minimum elong	-2903 Mar 08 j 21:14	24° \approx 56'42	1°57'27				
max. Earth dist.	-2903 Mar 09 j 20:14	24° \approx 58'51	30.83181 AU				
retrograde	-2903 Jun 24 j 10:09	27° \approx 31'29					
min. Earth dist.	-2903 Sep 11 j 07:44	26° \approx 07'29	28.83374 AU				
opposition	-2903 Sep 12 j 03:53	26° \approx 06'04	-2°-6'-35				
direct	-2903 Nov 28 j 09:08	24° \approx 42'22					
conjunction	-2902 Mar 11 j 10:57	27° \approx 11'34	-1°-59'-17				
minimum elong	-2902 Mar 11 j 10:57	27° \approx 11'34	1°59'22				
max. Earth dist.	-2902 Mar 12 j 08:36	27° \approx 13'36	30.83293 AU				
retrograde	-2902 Jun 27 j 01:01	29° \approx 46'20					
opposition	-2902 Sep 14 j 15:07	28° \approx 20'58	-2°-8'-31				
min. Earth dist.	-2902 Sep 13 j 19:09	28° \approx 22'23	28.83516 AU				
direct	-2902 Nov 30 j 21:04	26° \approx 57'15					