

Planetary Phenomena of Pluto 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.

retrograde	-3400 Mar 25 j 04:51	27°M05'22		conjunction	-3393 Dec 24 j 11:35	7°A25'00	-8°-21'-4
min. Earth dist.	-3400 Jun 12 j 14:52	25°M56'48	35.37535 AU	minimum elong	-3393 Dec 24 j 11:23	7°A24'59	8°21'12
opposition	-3400 Jun 15 j 18:12	25°M52'27	-5°-29'-19	max. Earth dist.	-3393 Dec 27 j 18:43	7°A30'51	39.26666 AU
direct	-3400 Sep 04 j 02:06	24°M41'03		retrograde	-3392 Apr 06 j 09:44	9°A21'26	
conjunction	-3400 Dec 13 j 02:58	26°M39'19	-5°-25'-13	min. Earth dist.	-3392 Jun 25 j 03:42	8°A15'09	37.41660 AU
minimum elong	-3400 Dec 13 j 02:48	26°M39'18	5°25'21	opposition	-3392 Jun 28 j 11:18	8°A10'43	-8°-59'-58
max. Earth dist.	-3400 Dec 16 j 06:14	26°M45'09	37.49427 AU	direct	-3392 Sep 16 j 20:30	7°A01'44	
retrograde	-3399 Mar 27 j 01:45	28°M41'27		conjunction	-3392 Dec 25 j 04:20	8°A53'07	-8°-43'-40
min. Earth dist.	-3399 Jun 14 j 11:23	27°M33'14	35.63105 AU	minimum elong	-3392 Dec 25 j 04:07	8°A53'07	8°43'48
opposition	-3399 Jun 17 j 16:00	27°M28'50	-5°-58'-2	max. Earth dist.	-3392 Dec 28 j 11:40	8°A58'57	39.51998 AU
direct	-3399 Sep 05 j 23:32	26°M17'44		retrograde	-3391 Apr 08 j 05:28	10°A48'50	
conjunction	-3399 Dec 14 j 22:41	28°M15'04	-5°-52'-14	min. Earth dist.	-3391 Jun 26 j 21:59	9°A42'48	37.67174 AU
minimum elong	-3399 Dec 14 j 22:31	28°M15'03	5°52'20	opposition	-3391 Jun 30 j 05:21	9°A38'25	-9°-23'-14
max. Earth dist.	-3399 Dec 18 j 02:33	28°M20'54	37.74785 AU	direct	-3391 Sep 18 j 11:38	8°A29'44	
retrograde	-3398 Feb 21 j 20:25	0°A		conjunction	-3391 Dec 26 j 20:55	10°A20'23	-9°-5'-39
min. Earth dist.	-3398 Mar 28 j 23:23	0°A16'19		minimum elong	-3391 Dec 26 j 20:43	10°A20'23	9°05'47
opposition	-3398 May 03 j 20:20	30°RM		max. Earth dist.	-3391 Dec 30 j 05:04	10°A26'14	39.77250 AU
direct	-3398 Jun 16 j 09:15	29°M08'20	35.88600 AU	retrograde	-3390 Apr 09 j 20:41	12°A15'23	
conjunction	-3398 Dec 16 j 17:55	29°M49'35	-6°-18'-37	min. Earth dist.	-3390 Jun 28 j 15:47	11°A09'38	37.92557 AU
minimum elong	-3398 Dec 16 j 17:44	29°M49'34	6°18'44	opposition	-3390 Jul 01 j 23:03	11°A05'16	-9°-45'-51
max. Earth dist.	-3398 Dec 19 j 22:32	29°M55'26	38.00080 AU	direct	-3390 Sep 20 j 06:56	9°A56'53	
retrograde	-3398 Dec 22 j 10:27	0°A		conjunction	-3390 Dec 28 j 12:59	11°A46'48	-9°-27'-1
min. Earth dist.	-3397 Mar 30 j 18:07	1°A49'58		minimum elong	-3390 Dec 28 j 12:46	11°A46'47	9°27'09
opposition	-3397 Jun 18 j 05:30	0°A42'15	36.14041 AU	max. Earth dist.	-3390 Dec 31 j 20:10	11°A52'33	40.02337 AU
direct	-3397 Jun 21 j 10:26	0°A37'53	-6°-53'-26	retrograde	-3389 Apr 11 j 12:32	13°A41'07	
conjunction	-3397 Jul 20 j 15:44	30°RM		min. Earth dist.	-3389 Jun 30 j 08:47	12°A35'38	38.17761 AU
minimum elong	-3397 Sep 09 j 17:19	29°M27'22		opposition	-3389 Jul 03 j 16:26	12°A31'15	-10°-7'-49
max. Earth dist.	-3397 Oct 28 j 20:10	0°A		direct	-3389 Sep 22 j 01:04	11°A23'09	
retrograde	-3397 Dec 18 j 12:39	1°A22'52	-6°-44'-22	conjunction	-3389 Dec 30 j 05:03	13°A12'22	-9°-47'-48
min. Earth dist.	-3397 Dec 18 j 12:28	1°A22'51	6°44'29	minimum elong	-3389 Dec 30 j 04:51	13°A12'21	9°47'56
opposition	-3397 Dec 21 j 17:07	1°A28'40	38.25335 AU	max. Earth dist.	-3388 Jan 02 j 13:08	13°A18'09	40.27196 AU
direct	-3396 Mar 31 j 12:44	3°A22'24		retrograde	-3388 Apr 12 j 02:07	15°A05'59	
conjunction	-3396 Dec 19 j 07:04	2°A54'59	-7°-9'-30	min. Earth dist.	-3388 Jul 01 j 02:57	14°A00'40	38.42703 AU
minimum elong	-3396 Dec 19 j 06:52	2°A54'58	7°09'38	opposition	-3388 Jul 04 j 09:17	13°A56'23	-10°-29'-10
max. Earth dist.	-3396 Dec 22 j 13:10	3°A00'52	38.50611 AU	direct	-3388 Sep 22 j 20:21	12°A48'33	
retrograde	-3395 Apr 02 j 03:59	4°A53'42		conjunction	-3388 Dec 30 j 20:43	14°A37'03	-10°-8'00
min. Earth dist.	-3395 Jun 20 j 21:02	3°A46'31	36.64981 AU	minimum elong	-3388 Dec 30 j 20:30	14°A37'02	10°08'07
opposition	-3395 Jun 24 j 02:32	3°A42'08	-7°-46'-7	max. Earth dist.	-3387 Jan 03 j 03:37	14°A42'42	40.51784 AU
direct	-3395 Sep 12 j 12:53	2°A32'13		retrograde	-3387 Apr 13 j 17:18	16°A29'58	
conjunction	-3395 Dec 21 j 00:51	4°A25'59	-7°-34'00	min. Earth dist.	-3387 Jul 02 j 18:43	15°A24'55	38.67356 AU
minimum elong	-3395 Dec 21 j 00:40	4°A25'58	7°34'07	opposition	-3387 Jul 06 j 01:48	15°A20'37	-10°-49'-53
max. Earth dist.	-3395 Dec 24 j 06:31	4°A31'48	38.75928 AU	direct	-3387 Sep 24 j 13:18	14°A13'01	
retrograde	-3394 Apr 03 j 21:51	6°A23'55		conjunction	-3386 Jan 01 j 11:51	16°A00'48	-10°-27'-38
min. Earth dist.	-3394 Jun 22 j 14:47	5°A17'05	36.90518 AU	minimum elong	-3386 Jan 01 j 11:39	16°A00'47	10°27'46
opposition	-3394 Jun 25 j 21:54	5°A12'38	-8°-11'-25	max. Earth dist.	-3386 Jan 04 j 18:53	16°A06'26	40.76068 AU
direct	-3394 Sep 14 j 08:18	4°A03'01		retrograde	-3386 Apr 15 j 09:03	17°A53'03	
conjunction	-3394 Dec 22 j 18:23	5°A55'58	-7°-57'-51	min. Earth dist.	-3386 Jul 04 j 12:13	16°A48'08	38.91726 AU
minimum elong	-3394 Dec 22 j 18:11	5°A55'57	7°57'58	opposition	-3386 Jul 07 j 18:06	16°A43'54	-11°-10'00
max. Earth dist.	-3394 Dec 26 j 01:25	6°A01'51	39.01283 AU	direct	-3386 Sep 26 j 05:10	15°A36'31	
retrograde	-3393 Apr 05 j 14:59	7°A53'09		conjunction	-3385 Jan 03 j 02:51	17°A23'36	-10°-46'-41
min. Earth dist.	-3393 Jun 24 j 10:24	6°A46'32	37.16094 AU	minimum elong	-3385 Jan 03 j 02:38	17°A23'35	10°46'48
opposition	-3393 Jun 27 j 16:52	6°A42'08	-8°-36'-2	max. Earth dist.	-3385 Jan 06 j 09:53	17°A29'12	41.00098 AU
direct	-3393 Sep 16 j 03:18	5°A32'51		retrograde	-3385 Apr 17 j 00:50	19°A15'09	
conjunction	-3384 Jan 04 j 17:21	18°A45'27	-11°-5'-9	min. Earth dist.	-3385 Jul 06 j 03:41	18°A10'26	39.15847 AU

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Attention, astronomical year style is used: The year -3384 in astronomical counting style is the year 3385 BCE in historical counting style.

minimum elong	-3384 Jan 04 j 17:08	18° \mathring{A} 45'26	11°05'18	retrograde	-3376 Apr 27 j 22:45	0° \mathring{C} 59'11	
max. Earth dist.	-3384 Jan 07 j 23:40	18° \mathring{A} 50'57	41.23902 AU		-3376 Jul 14 j 13:31	30° \mathring{R} \mathring{A}	
retrograde	-3384 Apr 17 j 16:36	20° \mathring{A} 36'20		min. Earth dist.	-3376 Jul 17 j 13:13	29° \mathring{A} 56'15	41.25677 AU
min. Earth dist.	-3384 Jul 06 j 19:08	19° \mathring{A} 31'47	39.39788 AU	opposition	-3376 Jul 20 j 16:03	29° \mathring{A} 52'19	-13°-58'-3
opposition	-3384 Jul 10 j 01:09	19° \mathring{A} 27'35	-11°-48'-23	direct	-3376 Oct 09 j 05:25	28° \mathring{A} 47'17	
direct	-3384 Sep 28 j 10:23	18° \mathring{A} 20'38			-3376 Dec 28 j 16:43	0° \mathring{C}	
conjunction	-3383 Jan 05 j 07:38	20° \mathring{A} 06'22	-11°-23'-3	conjunction	-3375 Jan 15 j 16:09	0° \mathring{C} 28'34	-13°-26'-12
minimum elong	-3383 Jan 05 j 07:26	20° \mathring{A} 06'21	11°23'11	minimum elong	-3375 Jan 15 j 15:59	0° \mathring{C} 28'34	13°26'20
max. Earth dist.	-3383 Jan 08 j 14:56	20° \mathring{A} 11'54	41.47545 AU	max. Earth dist.	-3375 Jan 18 j 20:35	0° \mathring{C} 33'43	43.30931 AU
retrograde	-3383 Apr 19 j 04:00	21° \mathring{A} 56'36		retrograde	-3375 Apr 29 j 10:42	2° \mathring{C} 14'26	
min. Earth dist.	-3383 Jul 08 j 10:38	20° \mathring{A} 52'13	39.63576 AU	min. Earth dist.	-3375 Jul 19 j 01:35	1° \mathring{C} 11'43	41.47625 AU
opposition	-3383 Jul 11 j 16:01	20° \mathring{A} 48'03	-12°-6'-39	opposition	-3375 Jul 22 j 04:35	1° \mathring{C} 07'47	-14°-11'-48
direct	-3383 Sep 30 j 03:52	19° \mathring{A} 41'19		direct	-3375 Oct 10 j 18:45	0° \mathring{C} 02'57	
conjunction	-3382 Jan 06 j 21:31	21° \mathring{A} 26'25	-11°-40'-22	conjunction	-3374 Jan 17 j 04:14	1° \mathring{C} 43'44	-13°-39'-18
minimum elong	-3382 Jan 06 j 21:19	21° \mathring{A} 26'24	11°40'31	minimum elong	-3374 Jan 17 j 04:03	1° \mathring{C} 43'43	13°39'26
max. Earth dist.	-3382 Jan 10 j 03:49	21° \mathring{A} 31'52	41.71071 AU	max. Earth dist.	-3374 Jan 20 j 08:00	1° \mathring{C} 48'48	43.52480 AU
retrograde	-3382 Apr 20 j 16:49	23° \mathring{A} 16'02		retrograde	-3374 May 01 j 00:17	3° \mathring{C} 29'05	
min. Earth dist.	-3382 Jul 10 j 00:21	22° \mathring{A} 11'55	39.87265 AU	min. Earth dist.	-3374 Jul 20 j 15:37	2° \mathring{C} 26'28	41.69167 AU
opposition	-3382 Jul 13 j 06:40	22° \mathring{A} 07'43	-12°-24'-19	opposition	-3374 Jul 23 j 17:03	2° \mathring{C} 22'38	-14°-25'-3
direct	-3382 Oct 01 j 19:31	21° \mathring{A} 01'12		direct	-3374 Oct 12 j 05:51	1° \mathring{C} 17'59	
conjunction	-3381 Jan 08 j 11:05	22° \mathring{A} 45'42	-11°-57'-7	conjunction	-3373 Jan 18 j 16:06	2° \mathring{C} 58'15	-13°-51'-55
minimum elong	-3381 Jan 08 j 10:53	22° \mathring{A} 45'41	11°57'15	minimum elong	-3373 Jan 18 j 15:58	2° \mathring{C} 58'14	13°52'04
max. Earth dist.	-3381 Jan 11 j 18:17	22° \mathring{A} 51'11	41.94490 AU	max. Earth dist.	-3373 Jan 21 j 19:46	3° \mathring{C} 03'16	43.73644 AU
retrograde	-3381 Apr 22 j 05:45	24° \mathring{A} 34'44		retrograde	-3373 May 02 j 12:09	4° \mathring{C} 43'04	
min. Earth dist.	-3381 Jul 11 j 15:50	23° \mathring{A} 30'46	40.10841 AU	min. Earth dist.	-3373 Jul 22 j 04:05	3° \mathring{C} 40'36	41.90317 AU
opposition	-3381 Jul 14 j 21:04	23° \mathring{A} 26'38	-12°-41'-22	opposition	-3373 Jul 25 j 05:04	3° \mathring{C} 36'48	-14°-37'-48
direct	-3381 Oct 03 j 10:39	22° \mathring{A} 20'23		direct	-3373 Oct 13 j 18:07	2° \mathring{C} 32'19	
conjunction	-3380 Jan 10 j 00:33	24° \mathring{A} 04'17	-12°-13'-18	conjunction	-3372 Jan 20 j 03:40	4° \mathring{C} 12'05	-14°-4'-4
minimum elong	-3380 Jan 10 j 00:21	24° \mathring{A} 04'16	12°13'26	minimum elong	-3372 Jan 20 j 03:30	4° \mathring{C} 12'04	14°04'12
max. Earth dist.	-3380 Jan 13 j 07:27	24° \mathring{A} 09'43	42.17802 AU	max. Earth dist.	-3372 Jan 23 j 05:43	4° \mathring{C} 16'58	43.94448 AU
retrograde	-3380 Apr 22 j 19:31	25° \mathring{A} 52'44		retrograde	-3372 May 03 j 00:58	5° \mathring{C} 56'22	
min. Earth dist.	-3380 Jul 12 j 04:57	24° \mathring{A} 49'03	40.34279 AU	min. Earth dist.	-3372 Jul 22 j 16:06	4° \mathring{C} 54'02	42.11151 AU
opposition	-3380 Jul 15 j 10:50	24° \mathring{A} 44'54	-12°-57'-49	opposition	-3372 Jul 25 j 16:43	4° \mathring{C} 50'16	-14°-50'-4
direct	-3380 Oct 04 j 00:06	23° \mathring{A} 38'53		direct	-3372 Oct 14 j 04:19	3° \mathring{C} 45'57	
conjunction	-3379 Jan 10 j 13:37	25° \mathring{A} 22'14	-12°-28'-55	conjunction	-3371 Jan 20 j 15:04	5° \mathring{C} 25'13	-14°-15'-44
minimum elong	-3379 Jan 10 j 13:25	25° \mathring{A} 22'13	12°29'03	minimum elong	-3371 Jan 20 j 14:56	5° \mathring{C} 25'13	14°15'53
max. Earth dist.	-3379 Jan 13 j 20:01	25° \mathring{A} 27'36	42.40953 AU	max. Earth dist.	-3371 Jan 23 j 17:46	5° \mathring{C} 30'08	44.14960 AU
retrograde	-3379 Apr 24 j 11:19	27° \mathring{A} 10'09		retrograde	-3371 May 04 j 10:25	7° \mathring{C} 09'01	
min. Earth dist.	-3379 Jul 13 j 19:23	26° \mathring{A} 06'39	40.57550 AU	min. Earth dist.	-3371 Jul 24 j 04:55	6° \mathring{C} 06'46	42.31707 AU
opposition	-3379 Jul 17 j 00:36	26° \mathring{A} 02'34	-13°-13'-42	opposition	-3371 Jul 27 j 04:12	6° \mathring{C} 03'05	-15°-1'-49
direct	-3379 Oct 05 j 11:22	24° \mathring{A} 56'49		direct	-3371 Oct 15 j 17:23	4° \mathring{C} 58'55	
conjunction	-3378 Jan 12 j 02:27	26° \mathring{A} 39'38	-12°-44'00	conjunction	-3370 Jan 22 j 02:00	6° \mathring{C} 37'43	-14°-26'-56
minimum elong	-3378 Jan 12 j 02:15	26° \mathring{A} 39'37	12°44'09	minimum elong	-3370 Jan 22 j 01:51	6° \mathring{C} 37'42	14°27'04
max. Earth dist.	-3378 Jan 15 j 09:29	26° \mathring{A} 45'01	42.63912 AU	max. Earth dist.	-3370 Jan 25 j 03:32	6° \mathring{C} 42'32	44.35234 AU
retrograde	-3378 Apr 26 j 00:10	28° \mathring{A} 27'01		retrograde	-3370 May 05 j 19:03	8° \mathring{C} 21'01	
min. Earth dist.	-3378 Jul 15 j 09:27	27° \mathring{A} 23'44	40.80577 AU	min. Earth dist.	-3370 Jul 25 j 15:28	7° \mathring{C} 18'58	42.52037 AU
opposition	-3378 Jul 18 j 14:01	27° \mathring{A} 19'41	-13°-29'-1	opposition	-3370 Jul 28 j 15:25	7° \mathring{C} 15'16	-15°-13'-4
direct	-3378 Oct 07 j 00:51	26° \mathring{A} 14'11		direct	-3370 Oct 17 j 06:18	6° \mathring{C} 11'16	
conjunction	-3377 Jan 13 j 15:08	27° \mathring{A} 56'29	-12°-58'-34	conjunction	-3369 Jan 23 j 12:53	7° \mathring{C} 49'36	-14°-37'-38
minimum elong	-3377 Jan 13 j 14:58	27° \mathring{A} 56'28	12°58'42	minimum elong	-3369 Jan 23 j 12:45	7° \mathring{C} 49'35	14°37'47
max. Earth dist.	-3377 Jan 16 j 20:44	28° \mathring{A} 01'45	42.86603 AU	max. Earth dist.	-3369 Jan 26 j 14:24	7° \mathring{C} 54'24	44.55285 AU
retrograde	-3377 Apr 27 j 13:22	29° \mathring{A} 43'21		retrograde	-3369 May 07 j 05:26	9° \mathring{C} 32'27	
min. Earth dist.	-3377 Jul 16 j 22:30	28° \mathring{A} 40'18	41.03315 AU	min. Earth dist.	-3369 Jul 27 j 03:52	8° \mathring{C} 30'30	42.72153 AU
opposition	-3377 Jul 20 j 03:07	28° \mathring{A} 36'17	-13°-43'-47	opposition	-3369 Jul 30 j 02:25	8° \mathring{C} 26'52	-15°-23'-49
direct	-3377 Oct 08 j 13:25	27° \mathring{A} 31'00		direct	-3369 Oct 18 j 18:27	7° \mathring{C} 23'03	
conjunction	-3376 Jan 15 j 03:46	29° \mathring{A} 12'48	-13°-12'-38	conjunction	-3368 Jan 24 j 23:40	9° \mathring{C} 00'56	-14°-47'-53
minimum elong	-3376 Jan 15 j 03:35	29° \mathring{A} 12'48	13°12'46	minimum elong	-3368 Jan 24 j 23:32	9° \mathring{C} 00'56	14°48'00
max. Earth dist.	-3376 Jan 18 j 09:40	29° \mathring{A} 18'04	43.08960 AU	max. Earth dist.	-3368 Jan 28 j 00:56	9° \mathring{C} 05'42	44.75136 AU
	-3376 Feb 14 j 09:06	0° \mathring{C}		retrograde	-3368 May 07 j 17:08	10° \mathring{C} 43'20	

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Attention, astronomical year style is used: The year -3368 in astronomical counting style is the year 3369 BCE in historical counting style.

min. Earth dist.	-3368 Jul 27 j 14:30	9°☾41'34	42.92033 AU	conjunction	-3359 Feb 03 j 16:48	19°☾22'36	-16°-1'-1
opposition	-3368 Jul 30 j 13:06	9°☾37'57	-15°-34'-4	minimum elong	-3359 Feb 03 j 16:43	19°☾22'36	16°01'09
direct	-3368 Oct 19 j 04:23	8°☾34'18		max. Earth dist.	-3359 Feb 06 j 10:15	19°☾26'42	46.37787 AU
				retrograde	-3359 May 18 j 06:10	21°☾01'23	
conjunction	-3367 Jan 25 j 10:02	10°☾11'46	-14°-57'-39	min. Earth dist.	-3359 Aug 07 j 15:11	20°☾00'34	44.54084 AU
minimum elong	-3367 Jan 25 j 09:55	10°☾11'46	14°57'48	opposition	-3359 Aug 10 j 04:34	19°☾57'30	-16°-46'-56
max. Earth dist.	-3367 Jan 28 j 10:08	10°☾16'26	44.94739 AU	direct	-3359 Oct 29 j 22:59	18°☾55'14	
retrograde	-3367 May 09 j 05:22	11°☾53'45					
min. Earth dist.	-3367 Jul 29 j 01:43	10°☾52'07	43.11663 AU	conjunction	-3358 Feb 05 j 01:52	20°☾29'19	-16°-7'-10
opposition	-3367 Jul 31 j 23:40	10°☾48'33	-15°-43'-52	minimum elong	-3358 Feb 05 j 01:50	20°☾29'19	16°07'18
direct	-3367 Oct 20 j 13:00	9°☾45'06		max. Earth dist.	-3358 Feb 07 j 18:26	20°☾33'21	46.53871 AU
				retrograde	-3358 May 19 j 14:23	22°☾07'44	
conjunction	-3366 Jan 26 j 20:27	11°☾22'10	-15°-6'-59	min. Earth dist.	-3358 Aug 08 j 23:34	21°☾07'04	44.70125 AU
minimum elong	-3366 Jan 26 j 20:20	11°☾22'09	15°07'07	opposition	-3358 Aug 11 j 13:10	21°☾03'59	-16°-53'00
max. Earth dist.	-3366 Jan 29 j 20:59	11°☾26'50	45.14075 AU	direct	-3358 Oct 31 j 08:50	20°☾01'50	
retrograde	-3366 May 10 j 14:30	13°☾03'43					
min. Earth dist.	-3366 Jul 30 j 13:16	12°☾02'13	43.30981 AU	conjunction	-3357 Feb 06 j 10:38	21°☾35'36	-16°-12'-56
opposition	-3366 Aug 02 j 09:59	11°☾58'43	-15°-53'-11	minimum elong	-3357 Feb 06 j 10:35	21°☾35'36	16°13'04
direct	-3366 Oct 22 j 00:13	10°☾55'27		max. Earth dist.	-3357 Feb 09 j 02:10	21°☾39'33	46.69680 AU
				retrograde	-3357 May 21 j 00:55	23°☾13'40	
conjunction	-3365 Jan 28 j 06:37	12°☾32'08	-15°-15'-53	min. Earth dist.	-3357 Aug 10 j 09:24	22°☾13'05	44.85910 AU
minimum elong	-3365 Jan 28 j 06:30	12°☾32'07	15°16'02	opposition	-3357 Aug 12 j 21:46	22°☾10'04	-16°-58'-38
max. Earth dist.	-3365 Jan 31 j 05:22	12°☾36'40	45.33082 AU	direct	-3357 Nov 01 j 15:52	21°☾08'03	
retrograde	-3365 May 12 j 00:04	14°☾13'16					
min. Earth dist.	-3365 Jul 31 j 23:30	13°☾11'57	43.49934 AU	conjunction	-3356 Feb 07 j 19:29	22°☾41'30	-16°-18'-18
opposition	-3365 Aug 03 j 20:07	13°☾08'28	-16°-2'-5	minimum elong	-3356 Feb 07 j 19:28	22°☾41'30	16°18'26
direct	-3365 Oct 23 j 10:55	12°☾05'23		max. Earth dist.	-3356 Feb 10 j 11:15	22°☾45'27	46.85243 AU
				retrograde	-3356 May 21 j 10:00	24°☾19'14	
conjunction	-3364 Jan 29 j 16:49	13°☾41'41	-15°-24'-22	min. Earth dist.	-3356 Aug 10 j 18:14	23°☾18'45	45.01425 AU
minimum elong	-3364 Jan 29 j 16:43	13°☾41'41	15°24'30	opposition	-3356 Aug 13 j 05:55	23°☾15'47	-17°-3'-53
max. Earth dist.	-3364 Feb 01 j 15:10	13°☾46'11	45.51677 AU	direct	-3356 Nov 01 j 23:34	22°☾13'55	
retrograde	-3364 May 12 j 08:49	15°☾22'27					
min. Earth dist.	-3364 Aug 01 j 11:33	14°☾21'11	43.68447 AU	conjunction	-3355 Feb 08 j 03:59	23°☾47'04	-16°-23'-17
opposition	-3364 Aug 04 j 05:59	14°☾17'49	-16°-10'-33	minimum elong	-3355 Feb 08 j 03:57	23°☾47'04	16°23'24
direct	-3364 Oct 23 j 22:13	13°☾14'54		max. Earth dist.	-3355 Feb 10 j 17:55	23°☾50'53	47.00550 AU
				retrograde	-3355 May 22 j 19:40	25°☾24'28	
conjunction	-3363 Jan 30 j 02:53	14°☾50'50	-15°-32'-28	min. Earth dist.	-3355 Aug 12 j 02:34	24°☾24'08	45.16679 AU
minimum elong	-3363 Jan 30 j 02:47	14°☾50'49	15°32'36	opposition	-3355 Aug 14 j 14:06	24°☾21'11	-17°-8'-43
max. Earth dist.	-3363 Feb 02 j 00:07	14°☾55'14	45.69825 AU	direct	-3355 Nov 03 j 06:03	23°☾19'27	
retrograde	-3363 May 13 j 18:19	16°☾31'11					
min. Earth dist.	-3363 Aug 02 j 21:34	15°☾30'05	43.86472 AU	conjunction	-3354 Feb 09 j 12:20	24°☾52'20	-16°-27'-53
opposition	-3363 Aug 05 j 15:42	15°☾26'44	-16°-18'-37	minimum elong	-3354 Feb 09 j 12:19	24°☾52'20	16°28'01
direct	-3363 Oct 25 j 08:41	14°☾23'58		max. Earth dist.	-3354 Feb 12 j 02:29	24°☾56'09	47.15569 AU
				retrograde	-3354 May 24 j 02:17	26°☾29'26	
conjunction	-3362 Jan 31 j 12:31	15°☾59'31	-15°-40'-11	min. Earth dist.	-3354 Aug 13 j 12:34	25°☾29'10	45.31612 AU
minimum elong	-3362 Jan 31 j 12:27	15°☾59'31	15°40'18	opposition	-3354 Aug 15 j 22:13	25°☾26'18	-17°-13'-11
max. Earth dist.	-3362 Feb 03 j 08:01	16°☾03'48	45.87476 AU	direct	-3354 Nov 04 j 15:12	24°☾24'44	
retrograde	-3362 May 15 j 06:44	17°☾39'29					
min. Earth dist.	-3362 Aug 04 j 08:39	16°☾38'27	44.04013 AU	conjunction	-3353 Feb 10 j 20:46	25°☾57'20	-16°-32'-7
opposition	-3362 Aug 07 j 01:23	16°☾35'11	-16°-26'-18	minimum elong	-3353 Feb 10 j 20:45	25°☾57'20	16°32'14
direct	-3362 Oct 26 j 16:01	15°☾32'33		max. Earth dist.	-3353 Feb 13 j 09:38	26°☾01'04	47.30260 AU
				retrograde	-3353 May 25 j 08:09	27°☾34'08	
conjunction	-3361 Feb 01 j 22:15	17°☾07'44	-15°-47'-31	min. Earth dist.	-3353 Aug 14 j 20:21	26°☾34'01	45.46174 AU
minimum elong	-3361 Feb 01 j 22:10	17°☾07'43	15°47'39	opposition	-3353 Aug 17 j 05:55	26°☾31'10	-17°-17'-16
max. Earth dist.	-3361 Feb 04 j 17:41	17°☾11'59	46.04658 AU	direct	-3353 Nov 06 j 01:31	25°☾29'44	
retrograde	-3361 May 16 j 15:53	18°☾47'17					
min. Earth dist.	-3361 Aug 05 j 19:18	17°☾46'19	44.21082 AU	conjunction	-3352 Feb 12 j 05:05	27°☾02'04	-16°-36'-1
opposition	-3361 Aug 08 j 10:35	17°☾43'08	-16°-33'-35	minimum elong	-3352 Feb 12 j 05:04	27°☾02'04	16°36'09
direct	-3361 Oct 28 j 01:30	16°☾40'37		max. Earth dist.	-3352 Feb 14 j 16:29	27°☾05'42	47.44537 AU
				retrograde	-3352 May 25 j 17:45	28°☾38'35	
conjunction	-3360 Feb 03 j 07:40	18°☾15'25	-15°-54'-27	min. Earth dist.	-3352 Aug 15 j 06:08	27°☾38'31	45.60300 AU
minimum elong	-3360 Feb 03 j 07:37	18°☾15'25	15°54'35	opposition	-3352 Aug 17 j 13:45	27°☾35'46	-17°-21'-1
max. Earth dist.	-3360 Feb 06 j 01:09	18°☾19'32	46.21411 AU	direct	-3352 Nov 06 j 09:12	26°☾34'28	
retrograde	-3360 May 17 j 00:22	19°☾54'35					
min. Earth dist.	-3360 Aug 06 j 04:32	18°☾53'43	44.37757 AU	conjunction	-3351 Feb 12 j 13:19	28°☾06'31	-16°-39'-35
opposition	-3360 Aug 08 j 19:40	18°☾50'33	-16°-40'-28	minimum elong	-3351 Feb 12 j 13:20	28°☾06'31	16°39'42
direct	-3360 Oct 28 j 10:50	17°☾48'10		max. Earth dist.	-3351 Feb 15 j 00:16	28°☾10'07	47.58356 AU

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

retrograde	-3351 May 27 j 02:46	29°☾42'44		minimum elong	-3343 Feb 21 j 02:19	6°☾28'37	16°56'38
min. Earth dist.	-3351 Aug 16 j 14:47	28°☾42'44	45.73922 AU	max. Earth dist.	-3343 Feb 23 j 04:30	6°☾31'36	48.53658 AU
opposition	-3351 Aug 18 j 21:21	28°☾40'03	-17°-24'-26	retrograde	-3343 Jun 04 j 09:53	8°☾02'31	
direct	-3351 Nov 07 j 15:54	27°☾38'51		min. Earth dist.	-3343 Aug 25 j 05:26	7°☾02'59	46.68046 AU
				opposition	-3343 Aug 27 j 04:39	7°☾00'42	-17°-39'-48
conjunction	-3350 Feb 13 j 21:24	29°☾10'38	-16°-42'-50	direct	-3343 Nov 16 j 02:37	6°☾00'12	
minimum elong	-3350 Feb 13 j 21:24	29°☾10'38	16°42'58				
max. Earth dist.	-3350 Feb 16 j 06:00	29°☾14'04	47.71676 AU	conjunction	-3342 Feb 22 j 09:21	7°☾30'01	-16°-57'-9
	-3350 Mar 21 j 11:10	0°☾		minimum elong	-3342 Feb 22 j 09:24	7°☾30'02	16°57'15
retrograde	-3350 May 28 j 12:16	0°☾46'32		max. Earth dist.	-3342 Feb 24 j 10:32	7°☾32'57	48.64142 AU
	-3350 Aug 06 j 11:12	30°☾☾		retrograde	-3342 Jun 05 j 16:23	9°☾03'44	
min. Earth dist.	-3350 Aug 17 j 23:13	29°☾46'36	45.87050 AU	min. Earth dist.	-3342 Aug 26 j 13:44	8°☾04'15	46.78379 AU
opposition	-3350 Aug 20 j 04:51	29°☾43'58	-17°-27'-32	opposition	-3342 Aug 28 j 11:04	8°☾02'03	-17°-40'-12
direct	-3350 Nov 08 j 21:55	28°☾42'52		direct	-3342 Nov 17 j 10:21	7°☾01'40	
	-3349 Feb 05 j 07:13	0°☾					
conjunction	-3349 Feb 15 j 05:25	0°☾14'22	-16°-45'-46	conjunction	-3341 Feb 23 j 16:34	8°☾31'19	-16°-57'-28
minimum elong	-3349 Feb 15 j 05:27	0°☾14'22	16°45'53	minimum elong	-3341 Feb 23 j 16:38	8°☾31'20	16°57'36
max. Earth dist.	-3349 Feb 17 j 13:40	0°☾17'46	47.84499 AU	max. Earth dist.	-3341 Feb 25 j 17:22	8°☾34'13	48.74290 AU
retrograde	-3349 May 29 j 17:25	1°☾49'57		retrograde	-3341 Jun 07 j 00:20	10°☾04'50	
min. Earth dist.	-3349 Aug 19 j 08:34	0°☾50'01	45.99682 AU	min. Earth dist.	-3341 Aug 27 j 20:44	9°☾05'27	46.88317 AU
opposition	-3349 Aug 21 j 12:13	0°☾47'29	-17°-30'-18	opposition	-3341 Aug 29 j 17:18	9°☾03'17	-17°-40'-18
	-3349 Oct 06 j 12:31	30°☾☾		direct	-3341 Nov 18 j 16:12	8°☾03'01	
direct	-3349 Nov 10 j 07:22	29°☾46'28		conjunction	-3340 Feb 24 j 23:37	9°☾32'31	-16°-57'-30
	-3349 Dec 14 j 16:37	0°☾		minimum elong	-3340 Feb 24 j 23:41	9°☾32'31	16°57'36
				max. Earth dist.	-3340 Feb 26 j 22:06	9°☾35'16	48.84011 AU
conjunction	-3348 Feb 16 j 13:18	1°☾17'41	-16°-48'-23	retrograde	-3340 Jun 07 j 09:45	11°☾05'49	
minimum elong	-3348 Feb 16 j 13:18	1°☾17'41	16°48'31	min. Earth dist.	-3340 Aug 28 j 04:08	10°☾06'30	46.97810 AU
max. Earth dist.	-3348 Feb 18 j 19:50	1°☾20'59	47.96870 AU	opposition	-3340 Aug 29 j 23:26	10°☾04'25	-17°-40'-5
retrograde	-3348 May 29 j 22:31	2°☾52'56		direct	-3340 Nov 18 j 19:55	9°☾04'16	
min. Earth dist.	-3348 Aug 19 j 15:42	1°☾53'06	46.11882 AU				
opposition	-3348 Aug 21 j 19:09	1°☾50'34	-17°-32'-45	conjunction	-3339 Feb 25 j 06:44	10°☾33'36	-16°-57'-15
direct	-3348 Nov 10 j 16:25	0°☾49'37		minimum elong	-3339 Feb 25 j 06:48	10°☾33'36	16°57'22
				max. Earth dist.	-3339 Feb 27 j 04:45	10°☾36'18	48.93251 AU
conjunction	-3347 Feb 16 j 20:54	2°☾20'34	-16°-50'-41	retrograde	-3339 Jun 08 j 15:37	12°☾06'42	
minimum elong	-3347 Feb 16 j 20:56	2°☾20'34	16°50'48	min. Earth dist.	-3339 Aug 29 j 12:17	11°☾07'24	47.06782 AU
max. Earth dist.	-3347 Feb 19 j 02:22	2°☾23'47	48.08834 AU	opposition	-3339 Aug 31 j 05:37	11°☾05'24	-17°-39'-37
retrograde	-3347 May 31 j 05:46	3°☾55'32		direct	-3339 Nov 20 j 02:35	10°☾05'20	
min. Earth dist.	-3347 Aug 21 j 00:31	2°☾55'41	46.23716 AU				
opposition	-3347 Aug 23 j 02:12	2°☾53'15	-17°-34'-51	conjunction	-3338 Feb 26 j 13:37	11°☾34'30	-16°-56'-45
direct	-3347 Nov 12 j 00:20	1°☾52'22		minimum elong	-3338 Feb 26 j 13:43	11°☾34'31	16°56'50
				max. Earth dist.	-3338 Feb 28 j 09:31	11°☾37'05	49.01976 AU
conjunction	-3346 Feb 18 j 04:22	3°☾23'03	-16°-52'-38	retrograde	-3338 Jun 09 j 20:33	13°☾07'24	
minimum elong	-3346 Feb 18 j 04:23	3°☾23'03	16°52'45	min. Earth dist.	-3338 Aug 30 j 18:49	12°☾08'10	47.15221 AU
max. Earth dist.	-3346 Feb 20 j 09:43	3°☾26'15	48.20471 AU	opposition	-3338 Sep 01 j 11:39	12°☾06'12	-17°-38'-52
retrograde	-3346 Jun 01 j 12:49	4°☾57'43		direct	-3338 Nov 21 j 10:07	11°☾06'12	
min. Earth dist.	-3346 Aug 22 j 07:44	3°☾57'57	46.35223 AU				
opposition	-3346 Aug 24 j 08:58	3°☾55'32	-17°-36'-36	conjunction	-3337 Feb 27 j 20:33	12°☾35'12	-16°-55'-58
direct	-3346 Nov 13 j 07:48	2°☾54'44		minimum elong	-3337 Feb 27 j 20:38	12°☾35'13	16°56'05
				max. Earth dist.	-3337 Mar 01 j 14:59	12°☾37'42	49.10158 AU
conjunction	-3345 Feb 19 j 11:46	4°☾25'11	-16°-54'-16	retrograde	-3337 Jun 11 j 01:41	14°☾07'53	
minimum elong	-3345 Feb 19 j 11:49	4°☾25'11	16°54'22	min. Earth dist.	-3337 Sep 01 j 03:09	13°☾08'37	47.23136 AU
max. Earth dist.	-3345 Feb 21 j 15:12	4°☾28'15	48.31807 AU	opposition	-3337 Sep 02 j 17:34	13°☾06'46	-17°-37'-50
retrograde	-3345 Jun 02 j 22:32	5°☾59'34		direct	-3337 Nov 22 j 17:57	12°☾06'50	
min. Earth dist.	-3345 Aug 23 j 14:59	4°☾59'52	46.46452 AU				
opposition	-3345 Aug 25 j 15:35	4°☾57'30	-17°-38'-1	conjunction	-3336 Feb 29 j 03:28	13°☾35'38	-16°-54'-55
direct	-3345 Nov 14 j 11:48	3°☾56'47		minimum elong	-3336 Feb 29 j 03:34	13°☾35'39	16°55'01
				max. Earth dist.	-3336 Mar 01 j 21:06	13°☾38'05	49.17851 AU
conjunction	-3344 Feb 20 j 19:10	5°☾27'01	-16°-55'-33		-3336 May 14 j 15:55	15°☾	
minimum elong	-3344 Feb 20 j 19:12	5°☾27'01	16°55'40	retrograde	-3336 Jun 11 j 07:10	15°☾08'07	
max. Earth dist.	-3344 Feb 22 j 22:44	5°☾30'05	48.42867 AU		-3336 Jul 09 j 06:42	15°☾☾	
retrograde	-3344 Jun 03 j 05:08	7°☾01'09		min. Earth dist.	-3336 Sep 01 j 09:28	14°☾08'54	47.30568 AU
min. Earth dist.	-3344 Aug 23 j 23:11	6°☾01'29	46.57392 AU	opposition	-3336 Sep 02 j 23:17	14°☾07'04	-17°-36'-33
opposition	-3344 Aug 25 j 22:12	5°☾59'12	-17°-39'-5	direct	-3336 Nov 23 j 01:26	13°☾07'10	
direct	-3344 Nov 14 j 18:40	4°☾58'35					
				conjunction	-3335 Mar 01 j 09:54	14°☾35'48	-16°-53'-36
conjunction	-3343 Feb 21 j 02:15	6°☾28'36	-16°-56'-31	minimum elong	-3335 Mar 01 j 09:59	14°☾35'48	16°53'43

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Attention, astronomical year style is used: The year -3335 in astronomical counting style is the year 3336 BCE in historical counting style.

max. Earth dist.	-3335 Mar 03 j 01:20	14°38'06	49.25094 AU	max. Earth dist.	-3327 Mar 10 j 19:28	22°31'10	49.70662 AU
	-3335 Mar 18 j 20:48	15°		retrograde	-3327 Jun 20 j 13:46	24°00'20	
retrograde	-3335 Jun 12 j 16:42	16°08'03		opposition	-3327 Sep 11 j 23:27	22°59'57	-17°-11'-48
min. Earth dist.	-3335 Sep 02 j 16:23	15°08'50	47.37593 AU	min. Earth dist.	-3327 Sep 10 j 20:23	23°01'15	47.81272 AU
opposition	-3335 Sep 04 j 05:02	15°07'04	-17°-34'-58	direct	-3327 Dec 02 j 02:21	22°00'32	
	-3335 Sep 10 j 08:04	15°R					
direct	-3335 Nov 24 j 04:27	14°07'13		conjunction	-3326 Mar 10 j 19:07	23°28'02	-16°-29'-2
	-3334 Feb 04 j 11:38	15°		minimum elong	-3326 Mar 10 j 19:15	23°28'03	16°29'08
				max. Earth dist.	-3326 Mar 12 j 00:45	23°29'45	49.74494 AU
conjunction	-3334 Mar 02 j 16:31	15°35'41	-16°-52'00	retrograde	-3326 Jun 21 j 17:50	24°58'51	
minimum elong	-3334 Mar 02 j 16:39	15°35'41	16°52'06	min. Earth dist.	-3326 Sep 12 j 02:04	23°59'47	47.84759 AU
max. Earth dist.	-3334 Mar 04 j 07:59	15°37'59	49.31955 AU	opposition	-3326 Sep 13 j 04:24	23°58'32	-17°-7'-42
retrograde	-3334 Jun 13 j 23:46	17°07'43		direct	-3326 Dec 03 j 09:38	22°59'08	
min. Earth dist.	-3334 Sep 03 j 23:28	16°08'29	47.44247 AU				
opposition	-3334 Sep 05 j 10:34	16°06'48	-17°-33'-5	conjunction	-3325 Mar 12 j 01:18	24°26'32	-16°-25'-1
direct	-3334 Nov 25 j 09:15	15°06'59		minimum elong	-3325 Mar 12 j 01:27	24°26'33	16°25'06
				max. Earth dist.	-3325 Mar 13 j 04:20	24°28'05	49.77787 AU
conjunction	-3333 Mar 03 j 23:00	16°35'17	-16°-50'-7	retrograde	-3325 Jun 23 j 01:52	25°57'12	
minimum elong	-3333 Mar 03 j 23:06	16°35'17	16°50'13	min. Earth dist.	-3325 Sep 13 j 08:49	24°58'07	47.87725 AU
max. Earth dist.	-3333 Mar 05 j 12:44	16°37'29	49.38486 AU	opposition	-3325 Sep 14 j 09:28	24°56'56	-17°-3'-22
retrograde	-3333 Jun 15 j 04:33	18°07'08		direct	-3325 Dec 04 j 13:20	23°57'33	
min. Earth dist.	-3333 Sep 05 j 04:57	17°07'57	47.50582 AU				
opposition	-3333 Sep 06 j 16:01	17°06'16	-17°-30'-54	conjunction	-3324 Mar 12 j 07:30	25°24'52	-16°-20'-45
direct	-3333 Nov 26 j 15:07	16°06'30		minimum elong	-3324 Mar 12 j 07:39	25°24'53	16°20'51
				max. Earth dist.	-3324 Mar 13 j 10:09	25°26'24	49.80572 AU
conjunction	-3332 Mar 04 j 05:23	17°34'39	-16°-47'-56	retrograde	-3324 Jun 23 j 08:22	26°55'24	
minimum elong	-3332 Mar 04 j 05:30	17°34'40	16°48'02	opposition	-3324 Sep 14 j 14:18	25°55'10	-16°-58'-48
max. Earth dist.	-3332 Mar 05 j 18:08	17°36'48	49.44695 AU	min. Earth dist.	-3324 Sep 13 j 15:22	25°56'15	47.90197 AU
retrograde	-3332 Jun 15 j 07:33	19°06'19		direct	-3324 Dec 04 j 17:32	24°55'48	
opposition	-3332 Sep 06 j 21:24	18°05'32	-17°-28'-26				
min. Earth dist.	-3332 Sep 05 j 12:12	18°07'08	47.56606 AU	conjunction	-3323 Mar 13 j 13:29	26°23'01	-16°-16'-15
direct	-3332 Nov 26 j 23:38	17°05'49		minimum elong	-3323 Mar 13 j 13:39	26°23'01	16°16'20
				max. Earth dist.	-3323 Mar 14 j 14:08	26°24'26	49.82918 AU
conjunction	-3331 Mar 05 j 11:45	18°33'50	-16°-45'-28	retrograde	-3323 Jun 24 j 14:21	27°53'24	
minimum elong	-3331 Mar 05 j 11:51	18°33'50	16°45'33	opposition	-3323 Sep 15 j 19:03	26°53'12	-16°-53'-57
max. Earth dist.	-3331 Mar 07 j 00:06	18°35'57	49.50620 AU	min. Earth dist.	-3323 Sep 14 j 20:24	26°54'17	47.92263 AU
retrograde	-3331 Jun 16 j 12:25	20°05'20		direct	-3323 Dec 05 j 21:27	25°53'51	
min. Earth dist.	-3331 Sep 06 j 17:44	19°06'13	47.62322 AU				
opposition	-3331 Sep 08 j 02:40	19°04'38	-17°-25'-39	conjunction	-3322 Mar 14 j 19:21	27°20'59	-16°-11'-29
direct	-3331 Nov 28 j 06:46	18°04'59		minimum elong	-3322 Mar 14 j 19:29	27°21'00	16°11'34
				max. Earth dist.	-3322 Mar 15 j 18:54	27°22'20	49.84870 AU
conjunction	-3330 Mar 06 j 17:52	19°32'52	-16°-42'-42	retrograde	-3322 Jun 25 j 16:45	28°51'15	
minimum elong	-3330 Mar 06 j 18:00	19°32'53	16°42'48	opposition	-3322 Sep 16 j 23:53	27°51'05	-16°-48'-51
max. Earth dist.	-3330 Mar 08 j 04:16	19°34'52	49.56227 AU	min. Earth dist.	-3322 Sep 16 j 03:17	27°52'04	47.93962 AU
retrograde	-3330 Jun 17 j 20:49	21°04'13		direct	-3322 Dec 07 j 05:25	26°51'45	
min. Earth dist.	-3330 Sep 08 j 00:17	20°05'07	47.67710 AU				
opposition	-3330 Sep 09 j 07:59	20°03'36	-17°-22'-35	conjunction	-3321 Mar 16 j 01:22	28°18'49	-16°-6'-27
direct	-3330 Nov 29 j 10:01	19°04'01		minimum elong	-3321 Mar 16 j 01:33	28°18'49	16°06'31
				max. Earth dist.	-3321 Mar 17 j 00:27	28°20'08	49.86495 AU
conjunction	-3329 Mar 08 j 00:16	20°31'48	-16°-39'-40	retrograde	-3321 Jun 26 j 20:09	29°48'59	
minimum elong	-3329 Mar 08 j 00:23	20°31'48	16°39'45	min. Earth dist.	-3321 Sep 17 j 08:01	28°49'50	47.95339 AU
max. Earth dist.	-3329 Mar 09 j 10:25	20°33'46	49.61478 AU	opposition	-3321 Sep 18 j 04:24	28°48'51	-16°-43'-27
retrograde	-3329 Jun 19 j 03:17	22°03'00		direct	-3321 Dec 08 j 12:42	27°49'31	
min. Earth dist.	-3329 Sep 09 j 07:02	21°03'55	47.72700 AU				
opposition	-3329 Sep 10 j 13:05	21°02'29	-17°-19'-15	conjunction	-3320 Mar 16 j 07:11	29°16'32	-16°-1'-9
direct	-3329 Nov 30 j 14:55	20°02'57		minimum elong	-3320 Mar 16 j 07:20	29°16'33	16°01'13
				max. Earth dist.	-3320 Mar 17 j 04:12	29°17'44	49.87816 AU
conjunction	-3328 Mar 08 j 06:35	21°30'38	-16°-36'-22		-3320 Apr 18 j 08:37	0°	
minimum elong	-3328 Mar 08 j 06:44	21°30'39	16°36'28	retrograde	-3320 Jun 27 j 04:01	0°	46'37
max. Earth dist.	-3328 Mar 09 j 14:42	21°32'30	49.66316 AU		-3320 Sep 06 j 12:02	30°R	
retrograde	-3328 Jun 19 j 09:19	23°01'42		opposition	-3320 Sep 18 j 09:08	29°46'33	-16°-37'-47
opposition	-3328 Sep 10 j 18:12	22°01'16	-17°-15'-39	min. Earth dist.	-3320 Sep 17 j 13:57	29°47'27	47.96435 AU
min. Earth dist.	-3328 Sep 09 j 12:45	22°02'40	47.77243 AU	direct	-3320 Dec 08 j 15:23	28°47'14	
direct	-3328 Nov 30 j 19:45	21°01'47			-3319 Mar 07 j 02:51	0°	
conjunction	-3327 Mar 09 j 12:44	22°29'24	-16°-32'-49	conjunction	-3319 Mar 17 j 12:55	0°	14'12 -15°-55'-34
minimum elong	-3327 Mar 09 j 12:53	22°29'24	16°32'54	minimum elong	-3319 Mar 17 j 13:06	0°	14'13 15°55'39

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Attention, astronomical year style is used: The year -3319 in astronomical counting style is the year 3320 BCE in historical counting style.

max. Earth dist.	-3319 Mar 18 j 10:01	0° ✕ 15'24	49.88857 AU	retrograde	-3311 Jul 06 j 02:04	9° ✕ 25'04	
retrograde	-3319 Jun 28 j 10:09	1° ✕ 44'13		opposition	-3311 Sep 27 j 01:55	8° ✕ 25'17	-15°-35'-15
opposition	-3319 Sep 19 j 13:48	0° ✕ 44'12	-16°-31'-51	min. Earth dist.	-3311 Sep 26 j 17:54	8° ✕ 25'40	47.88495 AU
min. Earth dist.	-3319 Sep 18 j 19:43	0° ✕ 45'03	47.97233 AU	direct	-3311 Dec 17 j 12:47	7° ✕ 26'01	
	-3319 Nov 02 j 02:42	30° ✕ ≈					
direct	-3319 Dec 09 j 19:40	29° ✕ ≈44'55		conjunction	-3310 Mar 26 j 17:45	8° ✕ 52'52	-14°-54'-19
	-3318 Jan 16 j 06:11	0° ✕		minimum elong	-3310 Mar 26 j 17:57	8° ✕ 52'52	14°54'23
				max. Earth dist.	-3310 Mar 27 j 01:11	8° ✕ 53'17	49.79963 AU
conjunction	-3318 Mar 18 j 18:42	1° ✕ 11'52	-15°-49'-44	retrograde	-3310 Jul 07 j 08:16	10° ✕ 22'21	
minimum elong	-3318 Mar 18 j 18:52	1° ✕ 11'52	15°49'48	opposition	-3310 Sep 28 j 06:17	9° ✕ 22'34	-15°-27'-6
max. Earth dist.	-3318 Mar 19 j 14:03	1° ✕ 12'58	49.89616 AU	min. Earth dist.	-3310 Sep 27 j 23:49	9° ✕ 22'52	47.85352 AU
retrograde	-3318 Jun 29 j 16:33	2° ✕ 41'48		direct	-3310 Dec 18 j 16:58	8° ✕ 23'16	
opposition	-3318 Sep 20 j 18:17	1° ✕ 41'50	-16°-25'-38				
min. Earth dist.	-3318 Sep 20 j 00:34	1° ✕ 42'41	47.97732 AU	conjunction	-3309 Mar 27 j 23:42	9° ✕ 50'06	-14°-46'-20
direct	-3318 Dec 10 j 22:52	0° ✕ 42'36		minimum elong	-3309 Mar 27 j 23:53	9° ✕ 50'07	14°46'23
				max. Earth dist.	-3309 Mar 28 j 06:56	9° ✕ 50'31	49.76767 AU
conjunction	-3317 Mar 20 j 00:35	2° ✕ 09'33	-15°-43'-38	retrograde	-3309 Jul 08 j 13:36	11° ✕ 19'34	
minimum elong	-3317 Mar 20 j 00:46	2° ✕ 09'33	15°43'43	opposition	-3309 Sep 29 j 10:42	10° ✕ 19'46	-15°-18'-40
max. Earth dist.	-3317 Mar 20 j 18:52	2° ✕ 10'35	49.90036 AU	min. Earth dist.	-3309 Sep 29 j 05:23	10° ✕ 20'01	47.81865 AU
retrograde	-3317 Jun 30 j 20:44	3° ✕ 39'25		direct	-3309 Dec 19 j 21:53	9° ✕ 20'26	
opposition	-3317 Sep 21 j 22:55	2° ✕ 39'32	-16°-19'-9				
min. Earth dist.	-3317 Sep 21 j 07:24	2° ✕ 40'16	47.97865 AU	conjunction	-3308 Mar 28 j 05:24	10° ✕ 47'18	-14°-38'-4
direct	-3317 Dec 12 j 04:39	1° ✕ 40'20		minimum elong	-3308 Mar 28 j 05:37	10° ✕ 47'19	14°38'08
				max. Earth dist.	-3308 Mar 28 j 10:55	10° ✕ 47'37	49.73261 AU
conjunction	-3316 Mar 20 j 06:29	3° ✕ 07'16	-15°-37'-16	retrograde	-3308 Jul 08 j 20:35	12° ✕ 16'44	
minimum elong	-3316 Mar 20 j 06:40	3° ✕ 07'16	15°37'20	opposition	-3308 Sep 29 j 15:02	11° ✕ 16'56	-15°-9'-59
max. Earth dist.	-3316 Mar 20 j 23:53	3° ✕ 08'15	49.90071 AU	min. Earth dist.	-3308 Sep 29 j 10:02	11° ✕ 17'11	47.78084 AU
retrograde	-3316 Jun 30 j 23:43	4° ✕ 37'06		direct	-3308 Dec 20 j 00:26	10° ✕ 17'35	
opposition	-3316 Sep 22 j 03:21	3° ✕ 37'16	-16°-12'-25				
min. Earth dist.	-3316 Sep 21 j 12:17	3° ✕ 37'59	47.97564 AU	conjunction	-3307 Mar 29 j 11:11	11° ✕ 44'30	-14°-29'-34
direct	-3316 Dec 12 j 11:53	2° ✕ 38'05		minimum elong	-3307 Mar 29 j 11:22	11° ✕ 44'30	14°29'37
				max. Earth dist.	-3307 Mar 29 j 15:40	11° ✕ 44'45	49.69458 AU
conjunction	-3315 Mar 21 j 12:20	4° ✕ 05'01	-15°-30'-41	retrograde	-3307 Jul 10 j 01:22	13° ✕ 13'55	
minimum elong	-3315 Mar 21 j 12:31	4° ✕ 05'01	15°30'46	opposition	-3307 Sep 30 j 19:31	12° ✕ 14'09	-15°-1'-1
max. Earth dist.	-3315 Mar 22 j 03:15	4° ✕ 05'52	49.89641 AU	min. Earth dist.	-3307 Sep 30 j 16:22	12° ✕ 14'18	47.74010 AU
retrograde	-3315 Jul 02 j 06:33	5° ✕ 34'49		direct	-3307 Dec 21 j 05:33	11° ✕ 14'47	
opposition	-3315 Sep 23 j 07:57	4° ✕ 35'01	-16°-5'-27				
min. Earth dist.	-3315 Sep 22 j 18:47	4° ✕ 35'38	47.96782 AU	conjunction	-3306 Mar 30 j 17:00	12° ✕ 41'45	-14°-20'-48
direct	-3315 Dec 13 j 16:02	3° ✕ 35'51		minimum elong	-3306 Mar 30 j 17:13	12° ✕ 41'46	14°20'51
				max. Earth dist.	-3306 Mar 30 j 20:55	12° ✕ 41'59	49.65375 AU
conjunction	-3314 Mar 22 j 18:18	5° ✕ 02'46	-15°-23'-52	retrograde	-3306 Jul 11 j 04:30	14° ✕ 11'12	
minimum elong	-3314 Mar 22 j 18:30	5° ✕ 02'46	15°23'55	opposition	-3306 Oct 01 j 23:53	13° ✕ 11'27	-14°-51'-48
max. Earth dist.	-3314 Mar 23 j 08:40	5° ✕ 03'35	49.88702 AU	min. Earth dist.	-3306 Oct 01 j 20:53	13° ✕ 11'36	47.69620 AU
retrograde	-3314 Jul 03 j 13:40	6° ✕ 32'30		direct	-3306 Dec 22 j 12:17	12° ✕ 12'05	
opposition	-3314 Sep 24 j 12:33	5° ✕ 32'44	-15°-58'-15				
min. Earth dist.	-3314 Sep 24 j 01:03	5° ✕ 33'17	47.95456 AU	conjunction	-3305 Mar 31 j 22:53	13° ✕ 39'08	-14°-11'-46
direct	-3314 Dec 14 j 19:34	4° ✕ 33'34		minimum elong	-3305 Mar 31 j 23:05	13° ✕ 39'09	14°11'49
				max. Earth dist.	-3305 Apr 01 j 00:35	13° ✕ 39'14	49.60948 AU
conjunction	-3313 Mar 24 j 00:17	6° ✕ 00'28	-15°-16'-50	retrograde	-3305 Jul 12 j 10:47	15° ✕ 08'38	
minimum elong	-3313 Mar 24 j 00:28	6° ✕ 00'28	15°16'54	opposition	-3305 Oct 03 j 04:16	14° ✕ 08'55	-14°-42'-19
max. Earth dist.	-3313 Mar 24 j 12:10	6° ✕ 01'08	49.87234 AU	min. Earth dist.	-3305 Oct 03 j 03:05	14° ✕ 08'58	47.64874 AU
retrograde	-3313 Jul 04 j 21:25	7° ✕ 30'08		direct	-3305 Dec 23 j 16:22	13° ✕ 09'33	
opposition	-3313 Sep 25 j 16:56	6° ✕ 30'22	-15°-50'-49				
min. Earth dist.	-3313 Sep 25 j 06:14	6° ✕ 30'53	47.93609 AU	conjunction	-3304 Apr 01 j 04:57	14° ✕ 36'41	-14°-2'-30
direct	-3313 Dec 15 j 21:58	5° ✕ 31'10		minimum elong	-3304 Apr 01 j 05:10	14° ✕ 36'42	14°02'34
				max. Earth dist.	-3304 Apr 01 j 06:19	14° ✕ 36'46	49.56129 AU
conjunction	-3312 Mar 24 j 06:13	6° ✕ 58'03	-15°-9'-34	retrograde	-3304 Jul 12 j 17:39	16° ✕ 06'14	
minimum elong	-3312 Mar 24 j 06:25	6° ✕ 58'04	15°09'37	opposition	-3304 Oct 03 j 08:47	15° ✕ 06'33	-14°-32'-35
max. Earth dist.	-3312 Mar 24 j 16:40	6° ✕ 58'39	49.85247 AU	min. Earth dist.	-3304 Oct 03 j 09:02	15° ✕ 06'32	47.59689 AU
retrograde	-3312 Jul 05 j 00:14	8° ✕ 27'39		direct	-3304 Dec 23 j 19:54	14° ✕ 07'11	
opposition	-3312 Sep 25 j 21:31	7° ✕ 27'53	-15°-43'-10				
min. Earth dist.	-3312 Sep 25 j 13:06	7° ✕ 28'17	47.91269 AU	conjunction	-3303 Apr 02 j 10:48	15° ✕ 34'25	-13°-53'00
direct	-3312 Dec 16 j 04:49	6° ✕ 28'40		minimum elong	-3303 Apr 02 j 11:00	15° ✕ 34'25	13°53'02
				max. Earth dist.	-3303 Apr 02 j 09:50	15° ✕ 34'21	49.50852 AU
conjunction	-3311 Mar 25 j 11:59	7° ✕ 55'31	-15°-2'-4	retrograde	-3303 Jul 14 j 02:34	17° ✕ 04'01	
minimum elong	-3311 Mar 25 j 12:09	7° ✕ 55'32	15°02'08	opposition	-3303 Oct 04 j 13:19	16° ✕ 04'20	-14°-22'-37
max. Earth dist.	-3311 Mar 25 j 21:40	7° ✕ 56'04	49.82809 AU	min. Earth dist.	-3303 Oct 04 j 14:22	16° ✕ 04'17	47.54015 AU

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Attention, astronomical year style is used: The year -3303 in astronomical counting style is the year 3304 BCE in historical counting style.

direct	-3303 Dec 24 j 21:31	15° ✠ 04'57		minimum elong	-3294 Apr 11 j 18:33	24° ✠ 16'56	12°17'01
				max. Earth dist.	-3294 Apr 11 j 05:37	24° ✠ 16'12	48.82230 AU
conjunction	-3302 Apr 03 j 16:58	16° ✠ 32'17	-13°-43'-17	retrograde	-3294 Jul 22 j 23:12	25° ✠ 47'02	
minimum elong	-3302 Apr 03 j 17:10	16° ✠ 32'18	13°43'20	opposition	-3294 Oct 13 j 06:38	24° ✠ 47'02	-12°-42'00
max. Earth dist.	-3302 Apr 03 j 14:25	16° ✠ 32'09	49.45042 AU	min. Earth dist.	-3294 Oct 13 j 19:11	24° ✠ 46'25	46.82255 AU
retrograde	-3302 Jul 15 j 06:56	18° ✠ 01'56		direct	-3293 Jan 02 j 23:26	23° ✠ 47'03	
opposition	-3302 Oct 05 j 17:53	17° ✠ 02'15	-14°-12'-25	max. Earth dist.	-3293 Apr 12 j 10:01	25° ✠ 14'31	48.72892 AU
min. Earth dist.	-3302 Oct 05 j 21:30	17° ✠ 02'05	47.47793 AU				
direct	-3302 Dec 26 j 03:10	16° ✠ 02'50		conjunction	-3293 Apr 13 j 00:44	25° ✠ 15'22	-12°-5'-4
				minimum elong	-3293 Apr 13 j 00:58	25° ✠ 15'22	12°05'06
conjunction	-3301 Apr 04 j 23:14	17° ✠ 30'16	-13°-33'-20	retrograde	-3293 Jul 24 j 08:31	26° ✠ 45'35	
minimum elong	-3301 Apr 04 j 23:27	17° ✠ 30'16	13°33'22	opposition	-3293 Oct 14 j 11:23	25° ✠ 45'33	-12°-29'-30
max. Earth dist.	-3301 Apr 04 j 19:28	17° ✠ 30'03	49.38696 AU	min. Earth dist.	-3293 Oct 15 j 00:35	25° ✠ 44'55	46.72591 AU
retrograde	-3301 Jul 16 j 09:03	18° ✠ 59'56		direct	-3292 Jan 04 j 01:06	24° ✠ 45'31	
opposition	-3301 Oct 06 j 22:26	18° ✠ 00'15	-14°-2'00				
min. Earth dist.	-3301 Oct 07 j 02:39	18° ✠ 00'02	47.41023 AU	conjunction	-3292 Apr 13 j 07:11	26° ✠ 14'00	-11°-52'-53
direct	-3301 Dec 27 j 11:38	17° ✠ 00'46		minimum elong	-3292 Apr 13 j 07:23	26° ✠ 14'01	11°52'54
				max. Earth dist.	-3292 Apr 12 j 15:19	26° ✠ 13'06	48.63183 AU
conjunction	-3300 Apr 05 j 05:14	18° ✠ 28'17	-13°-23'-9	retrograde	-3292 Jul 24 j 15:17	27° ✠ 44'21	
minimum elong	-3300 Apr 05 j 05:27	18° ✠ 28'18	13°23'13	opposition	-3292 Oct 14 j 16:18	26° ✠ 44'18	-12°-16'-45
max. Earth dist.	-3300 Apr 04 j 22:48	18° ✠ 27'55	49.31809 AU	min. Earth dist.	-3292 Oct 15 j 07:43	26° ✠ 43'33	46.62526 AU
retrograde	-3300 Jul 16 j 14:38	19° ✠ 58'00		direct	-3291 Jan 04 j 05:08	25° ✠ 44'11	
opposition	-3300 Oct 07 j 03:01	18° ✠ 58'16	-13°-51'-21				
min. Earth dist.	-3300 Oct 07 j 09:11	18° ✠ 57'59	47.33747 AU	conjunction	-3291 Apr 14 j 13:49	27° ✠ 12'52	-11°-40'-27
direct	-3300 Dec 27 j 16:48	17° ✠ 58'44		minimum elong	-3291 Apr 14 j 14:02	27° ✠ 12'53	11°40'29
				max. Earth dist.	-3291 Apr 13 j 20:56	27° ✠ 11'54	48.53059 AU
conjunction	-3299 Apr 06 j 11:26	19° ✠ 26'19	-13°-12'-45	retrograde	-3291 Jul 25 j 19:09	28° ✠ 43'21	
minimum elong	-3299 Apr 06 j 11:39	19° ✠ 26'20	13°12'48	opposition	-3291 Oct 15 j 21:08	27° ✠ 43'15	-12°-3'-44
max. Earth dist.	-3299 Apr 06 j 04:36	19° ✠ 25'56	49.24444 AU	min. Earth dist.	-3291 Oct 16 j 13:04	27° ✠ 42'29	46.52007 AU
retrograde	-3299 Jul 17 j 19:57	20° ✠ 56'05		direct	-3290 Jan 05 j 12:53	26° ✠ 43'04	
opposition	-3299 Oct 08 j 07:31	19° ✠ 56'19	-13°-40'-27				
min. Earth dist.	-3299 Oct 08 j 14:57	19° ✠ 55'57	47.26012 AU	conjunction	-3290 Apr 15 j 20:29	28° ✠ 11'57	-11°-27'-46
direct	-3299 Dec 28 j 21:51	18° ✠ 56'42		minimum elong	-3290 Apr 15 j 20:41	28° ✠ 11'57	11°27'47
				max. Earth dist.	-3290 Apr 15 j 00:53	28° ✠ 10'49	48.42443 AU
conjunction	-3298 Apr 07 j 17:30	20° ✠ 24'22	-13°-2'-7	retrograde	-3290 Jul 27 j 00:33	29° ✠ 42'34	
minimum elong	-3298 Apr 07 j 17:42	20° ✠ 24'23	13°02'09	opposition	-3290 Oct 17 j 02:15	28° ✠ 42'25	-11°-50'-29
max. Earth dist.	-3298 Apr 07 j 08:37	20° ✠ 23'52	49.16662 AU	min. Earth dist.	-3290 Oct 17 j 20:17	28° ✠ 41'32	46.40982 AU
retrograde	-3298 Jul 19 j 04:03	21° ✠ 54'10		direct	-3289 Jan 06 j 19:06	27° ✠ 42'08	
opposition	-3298 Oct 09 j 12:03	20° ✠ 54'21	-13°-29'-18	max. Earth dist.	-3289 Apr 16 j 07:12	29° ✠ 10'02	48.31308 AU
min. Earth dist.	-3298 Oct 09 j 20:10	20° ✠ 53'57	47.17890 AU				
direct	-3298 Dec 30 j 00:10	19° ✠ 54'39		conjunction	-3289 Apr 17 j 03:26	29° ✠ 11'12	-11°-14'-52
				minimum elong	-3289 Apr 17 j 03:38	29° ✠ 11'13	11°14'53
conjunction	-3297 Apr 08 j 23:43	21° ✠ 22'25	-12°-51'-13				
minimum elong	-3297 Apr 08 j 23:57	21° ✠ 22'26	12°51'15	retrograde	-3289 May 24 j 07:17	0° ☿	
max. Earth dist.	-3297 Apr 08 j 13:40	21° ✠ 21'51	49.08499 AU				
retrograde	-3297 Jul 20 j 09:49	22° ✠ 52'16					
opposition	-3297 Oct 10 j 16:37	21° ✠ 52'24	-13°-17'-53	opposition	-3289 Oct 18 j 07:18	29° ✠ 41'44	-11°-36'-58
min. Earth dist.	-3297 Oct 11 j 02:40	21° ✠ 51'55	47.09417 AU	min. Earth dist.	-3289 Oct 19 j 02:41	29° ✠ 40'48	46.29428 AU
direct	-3297 Dec 31 j 05:14	20° ✠ 52'37		direct	-3288 Jan 08 j 01:15	28° ✠ 41'22	
conjunction	-3296 Apr 09 j 05:57	22° ✠ 20'31	-12°-40'-5	max. Earth dist.	-3288 Apr 16 j 11:39	0° ☿ 09'18	48.19676 AU
minimum elong	-3296 Apr 09 j 06:09	22° ✠ 20'31	12°40'06				
max. Earth dist.	-3296 Apr 08 j 19:16	22° ✠ 19'54	49.00029 AU	conjunction	-3288 Apr 17 j 10:14	0° ☿ 10'37	-11°-1'-43
retrograde	-3296 Jul 20 j 12:56	23° ✠ 50'25		minimum elong	-3288 Apr 17 j 10:27	0° ☿ 10'37	11°01'44
opposition	-3296 Oct 10 j 21:13	22° ✠ 50'30	-13°-6'-12	retrograde	-3288 Jul 28 j 14:18	1° ☿ 41'31	
min. Earth dist.	-3296 Oct 11 j 07:14	22° ✠ 50'01	47.00646 AU	opposition	-3288 Oct 18 j 12:26	0° ☿ 41'13	-11°-23'-13
direct	-3296 Dec 31 j 12:18	21° ✠ 50'38		min. Earth dist.	-3288 Oct 19 j 08:46	0° ☿ 40'14	46.17404 AU
conjunction	-3295 Apr 10 j 11:56	23° ✠ 18'39	-12°-28'-40	direct	-3288 Nov 26 j 10:16	30° R ♃	
minimum elong	-3295 Apr 10 j 12:10	23° ✠ 18'40	12°28'42				
max. Earth dist.	-3295 Apr 09 j 23:19	23° ✠ 17'56	48.91268 AU	direct	-3287 Jan 08 j 04:25	29° ✠ 40'43	
retrograde	-3295 Jul 21 j 17:54	24° ✠ 48'40					
opposition	-3295 Oct 12 j 01:59	23° ✠ 48'41	-12°-54'-14	conjunction	-3287 Apr 18 j 17:01	1° ☿ 10'10	-10°-48'-20
min. Earth dist.	-3295 Oct 12 j 13:35	23° ✠ 48'08	46.91600 AU	minimum elong	-3287 Apr 18 j 17:13	1° ☿ 10'11	10°48'21
direct	-3294 Jan 01 j 17:50	22° ✠ 48'46		max. Earth dist.	-3287 Apr 17 j 17:07	1° ☿ 08'47	48.07573 AU
				retrograde	-3287 Jul 19 j 21:17	2° ☿ 41'13	
conjunction	-3294 Apr 11 j 18:21	24° ✠ 16'55	-12°-17'00	opposition	-3287 Oct 19 j 17:43	1° ☿ 40'49	-11°-9'-12
				min. Earth dist.	-3287 Oct 20 j 16:07	1° ☿ 39'44	46.04936 AU
				direct	-3286 Jan 09 j 09:43	0° ☿ 40'13	

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Attention, astronomical year style is used: The year -3286 in astronomical counting style is the year 3287 BCE in historical counting style.

max. Earth dist.	-3286 Apr 18 j 23:18	2°V08'26	47.95073 AU	minimum elong	-3278 Apr 28 j 11:32	10°V17'01	8°35'55
				retrograde	-3278 Aug 08 j 09:41	11°V50'04	
conjunction	-3286 Apr 20 j 00:02	2°V09'52	-10°-34'-41	opposition	-3278 Oct 28 j 20:25	10°V48'57	-8°-50'-30
minimum elong	-3286 Apr 20 j 00:15	2°V09'53	10°34'42	min. Earth dist.	-3278 Oct 30 j 04:17	10°V47'22	44.78484 AU
retrograde	-3286 Jul 31 j 02:19	3°V41'04		direct	-3277 Jan 18 j 15:43	9°V47'17	
opposition	-3286 Oct 20 j 22:48	2°V40'35	-10°-54'-56	max. Earth dist.	-3277 Apr 28 j 06:46	11°V17'21	46.68402 AU
min. Earth dist.	-3286 Oct 21 j 21:25	2°V39'29	45.92094 AU				
direct	-3285 Jan 10 j 16:57	1°V39'50		conjunction	-3277 Apr 29 j 19:38	11°V19'32	-8°-19'-52
max. Earth dist.	-3285 Apr 20 j 04:08	3°V08'10	47.82213 AU	minimum elong	-3277 Apr 29 j 19:50	11°V19'33	8°19'51
				retrograde	-3277 Aug 09 j 18:58	12°V52'52	
conjunction	-3285 Apr 21 j 07:03	3°V09'44	-10°-20'-47	opposition	-3277 Oct 30 j 02:53	11°V51'37	-8°-33'-43
minimum elong	-3285 Apr 21 j 07:14	3°V09'44	10°20'48	min. Earth dist.	-3277 Oct 31 j 12:49	11°V49'56	44.62478 AU
retrograde	-3285 Aug 01 j 07:58	4°V41'06		direct	-3276 Jan 19 j 20:49	10°V49'48	
opposition	-3285 Oct 22 j 04:11	3°V40'32	-10°-40'-22	max. Earth dist.	-3276 Apr 28 j 13:41	12°V20'06	46.52305 AU
min. Earth dist.	-3285 Oct 23 j 04:37	3°V39'20	45.78932 AU				
direct	-3284 Jan 11 j 23:11	2°V39'40		conjunction	-3276 Apr 30 j 03:48	12°V22'22	-8°-3'-34
max. Earth dist.	-3284 Apr 20 j 11:10	4°V08'13	47.69054 AU	minimum elong	-3276 Apr 30 j 03:59	12°V22'23	8°03'35
				retrograde	-3276 Aug 10 j 04:11	13°V55'58	
conjunction	-3284 Apr 21 j 14:06	4°V09'47	-10°-6'-37	opposition	-3276 Oct 30 j 09:15	12°V54'35	-8°-16'-38
minimum elong	-3284 Apr 21 j 14:18	4°V09'48	10°06'38	min. Earth dist.	-3276 Oct 31 j 19:38	12°V52'52	44.45999 AU
retrograde	-3284 Aug 01 j 12:44	5°V41'22		direct	-3275 Jan 20 j 03:28	11°V52'35	
opposition	-3284 Oct 22 j 09:37	4°V40'42	-10°-25'-32	max. Earth dist.	-3275 Apr 29 j 19:42	13°V23'05	46.35743 AU
min. Earth dist.	-3284 Oct 23 j 10:37	4°V39'28	45.65483 AU				
direct	-3283 Jan 12 j 06:14	3°V39'44		conjunction	-3275 May 01 j 12:10	13°V25'29	-7°-47'-1
				minimum elong	-3275 May 01 j 12:20	13°V25'30	7°47'00
conjunction	-3283 Apr 22 j 21:11	5°V10'06	-9°-52'-11	retrograde	-3275 Aug 11 j 11:14	14°V59'21	
minimum elong	-3283 Apr 22 j 21:22	5°V10'06	9°52'11	opposition	-3275 Oct 31 j 15:47	13°V57'49	-7°-59'-17
max. Earth dist.	-3283 Apr 21 j 16:22	5°V08'25	47.55641 AU	min. Earth dist.	-3275 Nov 02 j 04:23	13°V55'59	44.29093 AU
retrograde	-3283 Aug 02 j 22:33	6°V41'53		direct	-3274 Jan 21 j 11:00	12°V55'37	
opposition	-3283 Oct 23 j 15:02	5°V41'08	-10°-10'-24	max. Earth dist.	-3274 May 01 j 03:56	14°V26'25	46.18776 AU
min. Earth dist.	-3283 Oct 24 j 16:35	5°V39'53	45.51797 AU				
direct	-3282 Jan 13 j 08:29	4°V40'03		conjunction	-3274 May 02 j 20:47	14°V28'52	-7°-30'-11
max. Earth dist.	-3282 Apr 22 j 22:56	6°V08'59	47.41972 AU	minimum elong	-3274 May 02 j 20:57	14°V28'52	7°30'11
				retrograde	-3274 Aug 12 j 15:37	16°V03'00	
conjunction	-3282 Apr 24 j 04:32	6°V10'42	-9°-37'-28	opposition	-3274 Nov 01 j 22:27	15°V01'19	-7°-41'-39
minimum elong	-3282 Apr 24 j 04:44	6°V10'43	9°37'28	min. Earth dist.	-3274 Nov 03 j 11:42	14°V59'26	44.11800 AU
retrograde	-3282 Aug 04 j 07:28	7°V42'44		direct	-3273 Jan 22 j 20:56	13°V58'55	
opposition	-3282 Oct 24 j 20:45	6°V41'55	-9°-54'-59	max. Earth dist.	-3273 May 02 j 10:19	15°V29'56	46.01453 AU
min. Earth dist.	-3282 Oct 26 j 00:06	6°V40'34	45.37844 AU				
direct	-3281 Jan 14 j 11:54	5°V40'44		conjunction	-3273 May 04 j 05:21	15°V32'31	-7°-13'-5
max. Earth dist.	-3281 Apr 24 j 05:38	7°V09'54	47.28039 AU	minimum elong	-3273 May 04 j 05:31	15°V32'32	7°13'04
				retrograde	-3273 Aug 14 j 00:19	17°V06'57	
conjunction	-3281 Apr 25 j 12:02	7°V11'41	-9°-22'-28	opposition	-3273 Nov 03 j 05:11	16°V05'06	-7°-23'-43
minimum elong	-3281 Apr 25 j 12:13	7°V11'42	9°22'28	min. Earth dist.	-3273 Nov 04 j 19:25	16°V03'11	43.94192 AU
retrograde	-3281 Aug 05 j 13:12	8°V43'56		direct	-3272 Jan 24 j 02:46	15°V02'31	
opposition	-3281 Oct 26 j 02:21	7°V43'04	-9°-39'-17	max. Earth dist.	-3272 May 02 j 18:31	16°V33'51	45.83824 AU
min. Earth dist.	-3281 Oct 27 j 05:50	7°V41'43	45.23601 AU				
direct	-3280 Jan 15 j 19:52	6°V41'46		conjunction	-3272 May 04 j 14:10	16°V36'28	-6°-55'-43
max. Earth dist.	-3280 Apr 24 j 11:00	8°V11'08	47.13776 AU	minimum elong	-3272 May 04 j 14:20	16°V36'29	6°55'42
				retrograde	-3272 Aug 14 j 09:29	18°V11'14	
conjunction	-3280 Apr 25 j 19:36	8°V13'03	-9°-7'-13	opposition	-3272 Nov 03 j 12:15	17°V09'13	-7°-5'-29
minimum elong	-3280 Apr 25 j 19:48	8°V13'04	9°07'13	min. Earth dist.	-3272 Nov 05 j 04:02	17°V07'13	43.76306 AU
retrograde	-3280 Aug 05 j 19:03	9°V45'34		direct	-3271 Jan 24 j 08:09	16°V06'27	
opposition	-3280 Oct 26 j 08:17	8°V44'38	-9°-23'-18	max. Earth dist.	-3271 May 04 j 02:26	17°V38'06	45.65952 AU
min. Earth dist.	-3280 Oct 27 j 13:47	8°V43'10	45.09010 AU				
direct	-3279 Jan 16 j 03:24	7°V43'14		conjunction	-3271 May 05 j 22:57	17°V40'48	-6°-38'-3
max. Earth dist.	-3279 Apr 25 j 18:28	9°V12'54	46.99125 AU	minimum elong	-3271 May 05 j 23:07	17°V40'48	6°38'02
				retrograde	-3271 Aug 15 j 18:56	19°V15'54	
conjunction	-3279 Apr 27 j 03:22	9°V14'50	-8°-51'-41	opposition	-3271 Nov 04 j 19:23	18°V13'44	-6°-46'-56
minimum elong	-3279 Apr 27 j 03:33	9°V14'51	8°51'40	min. Earth dist.	-3271 Nov 06 j 11:05	18°V11'44	43.58185 AU
retrograde	-3279 Aug 07 j 00:28	10°V47'38		direct	-3270 Jan 25 j 15:16	17°V10'46	
opposition	-3279 Oct 27 j 14:21	9°V46'36	-9°-7'-2	max. Earth dist.	-3270 May 05 j 09:40	18°V42'45	45.47833 AU
min. Earth dist.	-3279 Oct 28 j 20:53	9°V45'05	44.93982 AU				
direct	-3278 Jan 17 j 11:17	8°V45'05		conjunction	-3270 May 07 j 08:05	18°V45'34	-6°-20'-6
max. Earth dist.	-3278 Apr 26 j 23:54	10°V14'54	46.84016 AU	minimum elong	-3270 May 07 j 08:14	18°V45'34	6°20'05
				retrograde	-3270 Aug 17 j 03:46	20°V21'01	
conjunction	-3278 Apr 28 j 11:21	10°V17'00	-8°-35'-54	opposition	-3270 Nov 06 j 02:42	19°V18'43	-6°-28'-6

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Attention, astronomical year style is used: The year -3270 in astronomical counting style is the year 3271 BCE in historical counting style.

min. Earth dist.	-3270 Nov 07 j 20:16	19° Υ 16'37	43.39829 AU	conjunction	-3261 May 18 j 04:41	28° Υ 54'14	-3°-25'-50
direct	-3269 Jan 26 j 23:27	18° Υ 15'35		minimum elong	-3261 May 18 j 04:46	28° Υ 54'14	3°25'48
max. Earth dist.	-3269 May 06 j 19:09	19° Υ 48'00	45.29472 AU	retrograde	-3261 Jul 04 j 07:03	0° Υ	
conjunction	-3269 May 08 j 17:32	19° Υ 50'50	-6°-1'-51		-3261 Aug 27 j 20:14	0° Υ 33'42	
minimum elong	-3269 May 08 j 17:41	19° Υ 50'51	6°01'51	opposition	-3261 Oct 22 j 03:53	30° Υ	
retrograde	-3269 Aug 18 j 10:28	21° Υ 26'41		min. Earth dist.	-3261 Nov 16 j 06:11	29° Υ 29'49	-3°-24'-57
opposition	-3269 Nov 07 j 10:16	20° Υ 24'16	-6°-8'-57	direct	-3261 Nov 18 j 09:57	29° Υ 27'07	41.58320 AU
min. Earth dist.	-3269 Nov 09 j 04:15	20° Υ 22'08	43.21205 AU	direct	-3260 Feb 06 j 02:54	28° Υ 24'41	
direct	-3268 Jan 28 j 09:24	19° Υ 20'58		max. Earth dist.	-3260 May 15 j 14:48	0° Υ	
max. Earth dist.	-3268 May 07 j 02:18	20° Υ 53'42	45.10822 AU	max. Earth dist.	-3260 May 16 j 04:16	0° Υ 00'51	43.47193 AU
conjunction	-3268 May 09 j 02:52	20° Υ 56'41	-5°-43'-20	conjunction	-3260 May 18 j 15:55	0° Υ 04'38	-3°-5'-4
minimum elong	-3268 May 09 j 03:01	20° Υ 56'41	5°43'19	minimum elong	-3260 May 18 j 16:01	0° Υ 04'39	3°05'01
retrograde	-3268 Aug 18 j 20:27	22° Υ 32'58		retrograde	-3260 Aug 28 j 08:58	1° Υ 44'37	
opposition	-3268 Nov 07 j 17:58	21° Υ 30'25	-5°-49'-30	opposition	-3260 Nov 16 j 15:48	0° Υ 40'30	-3°-3'-4
min. Earth dist.	-3268 Nov 09 j 13:16	21° Υ 28'12	43.02277 AU	min. Earth dist.	-3260 Nov 18 j 21:16	0° Υ 37'42	41.36471 AU
direct	-3267 Jan 28 j 15:50	20° Υ 26'56		direct	-3260 Dec 21 j 08:16	30° Υ	
max. Earth dist.	-3267 May 08 j 11:21	22° Υ 00'07	44.91812 AU	direct	-3259 Feb 06 j 11:59	29° Υ 35'05	
conjunction	-3267 May 10 j 12:46	22° Υ 03'09	-5°-24'-32	max. Earth dist.	-3259 Mar 25 j 09:02	0° Υ	
minimum elong	-3267 May 10 j 12:54	22° Υ 03'10	5°24'31	max. Earth dist.	-3259 May 17 j 15:56	1° Υ 11'50	43.25326 AU
retrograde	-3267 Aug 20 j 06:21	23° Υ 39'53		conjunction	-3259 May 20 j 03:34	1° Υ 15'38	-2°-44'00
opposition	-3267 Nov 09 j 01:54	22° Υ 37'11	-5°-29'-45	minimum elong	-3259 May 20 j 03:39	1° Υ 15'39	2°43'58
min. Earth dist.	-3267 Nov 10 j 22:57	22° Υ 34'53	42.82958 AU	retrograde	-3259 Aug 29 j 20:27	2° Υ 56'07	
direct	-3266 Jan 29 j 22:39	21° Υ 33'32		opposition	-3259 Nov 18 j 01:28	1° Υ 51'47	-2°-40'-53
max. Earth dist.	-3266 May 09 j 19:54	23° Υ 07'07	44.72396 AU	min. Earth dist.	-3259 Nov 20 j 06:48	1° Υ 48'58	41.14458 AU
conjunction	-3266 May 11 j 22:53	23° Υ 10'15	-5°-5'-27	direct	-3258 Feb 07 j 23:46	0° Υ 46'05	
minimum elong	-3266 May 11 j 23:00	23° Υ 10'16	5°05'25	max. Earth dist.	-3258 May 19 j 01:48	2° Υ 23'20	43.03298 AU
retrograde	-3266 Aug 21 j 19:00	24° Υ 47'25		conjunction	-3258 May 21 j 15:28	2° Υ 27'17	-2°-22'-39
opposition	-3266 Nov 10 j 10:03	23° Υ 44'34	-5°-9'-42	minimum elong	-3258 May 21 j 15:33	2° Υ 27'18	2°22'36
min. Earth dist.	-3266 Nov 12 j 07:41	23° Υ 42'14	42.63207 AU	retrograde	-3258 Aug 31 j 07:56	4° Υ 08'20	
direct	-3265 Jan 31 j 05:13	22° Υ 40'42		opposition	-3258 Nov 19 j 11:34	3° Υ 03'46	-2°-18'-23
max. Earth dist.	-3265 May 11 j 04:01	24° Υ 14'40	44.52509 AU	min. Earth dist.	-3258 Nov 21 j 18:18	3° Υ 00'52	40.92305 AU
conjunction	-3265 May 13 j 09:14	24° Υ 17'58	-4°-46'-5	direct	-3257 Feb 09 j 09:47	1° Υ 57'49	
minimum elong	-3265 May 13 j 09:21	24° Υ 17'58	4°46'04	max. Earth dist.	-3257 May 20 j 14:06	3° Υ 35'40	42.81110 AU
retrograde	-3265 Aug 23 j 06:00	25° Υ 55'34		conjunction	-3257 May 23 j 03:45	3° Υ 39'40	-2°-1'-1
opposition	-3265 Nov 11 j 18:32	24° Υ 52'33	-4°-49'-21	minimum elong	-3257 May 23 j 03:49	3° Υ 39'40	2°00'58
min. Earth dist.	-3265 Nov 13 j 18:34	24° Υ 50'05	42.42998 AU	retrograde	-3257 Sep 01 j 16:45	5° Υ 21'17	
direct	-3264 Feb 01 j 13:19	23° Υ 48'27		opposition	-3257 Nov 20 j 21:57	4° Υ 16'31	-1°-55'-35
max. Earth dist.	-3264 May 11 j 14:02	25° Υ 22'53	44.32180 AU	min. Earth dist.	-3257 Nov 23 j 05:25	4° Υ 13'34	40.69980 AU
conjunction	-3264 May 13 j 19:50	25° Υ 26'14	-4°-26'-27	direct	-3256 Feb 10 j 21:45	3° Υ 10'18	
minimum elong	-3264 May 13 j 19:57	25° Υ 26'15	4°26'24	max. Earth dist.	-3256 May 21 j 01:04	4° Υ 48'43	42.58746 AU
retrograde	-3264 Aug 23 j 13:18	27° Υ 04'17		conjunction	-3256 May 23 j 16:13	4° Υ 52'50	-1°-39'-5
opposition	-3264 Nov 12 j 03:08	26° Υ 01'04	-4°-28'-42	minimum elong	-3256 May 23 j 16:16	4° Υ 52'50	1°39'02
min. Earth dist.	-3264 Nov 14 j 03:38	25° Υ 58'34	42.22354 AU	retrograde	-3256 Sep 02 j 06:14	6° Υ 35'05	
direct	-3263 Feb 02 j 01:09	24° Υ 56'44		opposition	-3256 Nov 21 j 08:32	5° Υ 30'05	-1°-32'-28
max. Earth dist.	-3263 May 12 j 22:06	26° Υ 31'31	44.11433 AU	min. Earth dist.	-3256 Nov 23 j 16:30	5° Υ 27'06	40.47466 AU
conjunction	-3263 May 15 j 06:25	26° Υ 35'03	-4°-6'-31	direct	-3255 Feb 11 j 06:06	4° Υ 23'36	
minimum elong	-3263 May 15 j 06:32	26° Υ 35'03	4°06'30	max. Earth dist.	-3255 May 22 j 12:45	6° Υ 02'39	42.36128 AU
retrograde	-3263 Aug 24 j 22:26	28° Υ 13'33		conjunction	-3255 May 25 j 05:06	6° Υ 06'51	-1°-16'-53
opposition	-3263 Nov 13 j 11:57	27° Υ 10'08	-4°-7'-46	minimum elong	-3255 May 25 j 05:09	6° Υ 06'51	1°16'50
min. Earth dist.	-3263 Nov 15 j 14:02	27° Υ 07'32	42.01327 AU	retrograde	-3255 Sep 03 j 20:12	7° Υ 49'44	
direct	-3262 Feb 03 j 10:42	26° Υ 05'32		opposition	-3255 Nov 22 j 19:39	6° Υ 44'31	-1°-9'-2
max. Earth dist.	-3262 May 14 j 08:41	27° Υ 40'48	43.90306 AU	min. Earth dist.	-3255 Nov 25 j 05:41	6° Υ 41'25	40.24672 AU
conjunction	-3262 May 16 j 17:32	27° Υ 44'23	-3°-46'-19	direct	-3254 Feb 12 j 14:27	5° Υ 37'46	
minimum elong	-3262 May 16 j 17:38	27° Υ 44'23	3°46'17	max. Earth dist.	-3254 May 24 j 01:22	7° Υ 17'27	42.13207 AU
retrograde	-3262 Aug 26 j 07:43	29° Υ 23'22		conjunction	-3254 May 26 j 18:28	7° Υ 21'44	0°-54'-24
opposition	-3262 Nov 14 j 20:57	28° Υ 19'43	-3°-46'-30	minimum elong	-3254 May 26 j 18:30	7° Υ 21'44	0°54'21
min. Earth dist.	-3262 Nov 17 j 00:26	28° Υ 17'02	41.79953 AU	retrograde	-3254 Sep 05 j 10:06	9° Υ 05'16	
direct	-3261 Feb 04 j 19:30	27° Υ 14'51		opposition	-3254 Nov 24 j 06:56	7° Υ 59'49	0°-45'-18
max. Earth dist.	-3261 May 15 j 18:24	28° Υ 50'33	43.68879 AU	min. Earth dist.	-3254 Nov 26 j 17:13	7° Υ 56'41	40.01554 AU
				direct	-3253 Feb 14 j 03:08	6° Υ 52'46	

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Attention, astronomical year style is used: The year -3253 in astronomical counting style is the year 3254 BCE in historical counting style.

max. Earth dist.	-3253 May 25 j 12:35	8°♁33'02	41.89931 AU	conjunction	-3246 Jun 06 j 17:25	17°♁52'25	2°15'01
				minimum elong	-3246 Jun 06 j 17:21	17°♁52'25	2°15'06
conjunction	-3253 May 28 j 08:08	8°♁37'30	0°-31'-39	retrograde	-3246 Sep 16 j 08:10	19°♁41'48	
minimum elong	-3253 May 28 j 08:09	8°♁37'30	0°31'35	opposition	-3246 Dec 04 j 14:59	18°♁34'02	2°34'57
retrograde	-3253 Sep 07 j 00:35	10°♁21'41		min. Earth dist.	-3246 Dec 07 j 08:49	18°♁30'20	38.07294 AU
opposition	-3253 Nov 25 j 18:47	9°♁15'58	0°-21'-17	direct	-3245 Feb 24 j 11:58	17°♁24'13	
min. Earth dist.	-3253 Nov 28 j 07:01	9°♁12'43	39.78093 AU	max. Earth dist.	-3245 Jun 05 j 08:01	19°♁10'32	39.94756 AU
direct	-3252 Feb 15 j 15:21	8°♁08'37					
max. Earth dist.	-3252 May 26 j 02:21	9°♁49'36	41.66303 AU	conjunction	-3245 Jun 08 j 10:12	19°♁15'44	2°39'48
				minimum elong	-3245 Jun 08 j 10:07	19°♁15'43	2°39'53
conjunction	-3252 May 28 j 22:03	9°♁54'06	0°-8'-39	retrograde	-3245 Sep 17 j 23:23	21°♁05'59	
minimum elong	-3252 May 28 j 22:04	9°♁54'06	0°08'36	opposition	-3245 Dec 06 j 05:59	19°♁57'56	3°01'12
behind sun begin	-3252 May 28 j 16:25	9°♁53'45		min. Earth dist.	-3245 Dec 09 j 00:37	19°♁54'10	37.82547 AU
behind sun end	-3252 May 29 j 03:43	9°♁54'28		direct	-3244 Feb 26 j 02:28	18°♁47'47	
retrograde	-3252 Sep 07 j 12:25	11°♁38'58		max. Earth dist.	-3244 Jun 06 j 00:03	20°♁34'58	39.69919 AU
asc. node	-3252 Oct 11 j 22:24	11°♁24'27					
opposition	-3252 Nov 26 j 06:56	10°♁32'59	0°03'02	conjunction	-3244 Jun 09 j 03:07	20°♁40'16	3°04'47
min. Earth dist.	-3252 Nov 28 j 19:55	10°♁29'40	39.54286 AU	minimum elong	-3244 Jun 09 j 03:01	20°♁40'16	3°04'52
direct	-3251 Feb 16 j 05:33	9°♁25'18		retrograde	-3244 Sep 18 j 17:11	22°♁31'26	
max. Earth dist.	-3251 May 27 j 14:31	11°♁06'52	41.42350 AU	opposition	-3244 Dec 06 j 21:16	21°♁23'06	3°27'41
				min. Earth dist.	-3244 Dec 09 j 15:59	21°♁19'19	37.57751 AU
conjunction	-3251 May 30 j 12:21	11°♁11'34	0°14'43	direct	-3243 Feb 26 j 15:38	20°♁12'37	
minimum elong	-3251 May 30 j 12:20	11°♁11'34	0°14'47	max. Earth dist.	-3243 Jun 07 j 16:33	22°♁00'42	39.44970 AU
behind sun begin	-3251 May 30 j 10:01	11°♁11'25					
behind sun end	-3251 May 30 j 14:39	11°♁11'42		conjunction	-3243 Jun 10 j 20:51	22°♁06'08	3°29'59
retrograde	-3251 Sep 09 j 02:23	12°♁57'07		minimum elong	-3243 Jun 10 j 20:44	22°♁06'07	3°30'05
opposition	-3251 Nov 27 j 19:11	11°♁50'51	0°27'39	retrograde	-3243 Sep 20 j 12:37	23°♁58'14	
min. Earth dist.	-3251 Nov 30 j 09:13	11°♁47'27	39.30194 AU	opposition	-3243 Dec 08 j 13:06	22°♁49'36	3°54'24
direct	-3250 Feb 17 j 17:00	10°♁42'49		min. Earth dist.	-3243 Dec 11 j 09:40	22°♁45'42	37.32830 AU
max. Earth dist.	-3250 May 29 j 04:26	12°♁25'05	41.18106 AU	direct	-3242 Feb 28 j 04:47	21°♁38'45	
				max. Earth dist.	-3242 Jun 09 j 10:38	23°♁27'50	39.19869 AU
conjunction	-3250 Jun 01 j 03:10	12°♁29'52	0°38'16				
minimum elong	-3250 Jun 01 j 03:09	12°♁29'52	0°38'19	conjunction	-3242 Jun 12 j 15:08	23°♁33'20	3°55'23
retrograde	-3250 Sep 10 j 16:19	14°♁16'08		minimum elong	-3242 Jun 12 j 15:00	23°♁33'19	3°55'28
opposition	-3250 Nov 29 j 08:03	13°♁09'34	0°52'33	retrograde	-3242 Sep 22 j 08:29	25°♁26'22	
min. Earth dist.	-3250 Dec 01 j 23:39	13°♁06'05	39.05847 AU	opposition	-3242 Dec 10 j 05:31	24°♁17'26	4°21'20
direct	-3249 Feb 19 j 04:40	12°♁01'11		min. Earth dist.	-3242 Dec 13 j 02:01	24°♁13'31	37.07736 AU
max. Earth dist.	-3249 May 30 j 18:44	13°♁44'12	40.93647 AU	direct	-3241 Mar 01 j 21:11	23°♁06'13	
				max. Earth dist.	-3241 Jun 11 j 03:14	24°♁56'10	38.94558 AU
conjunction	-3249 Jun 02 j 18:08	13°♁49'03	1°02'05				
minimum elong	-3249 Jun 02 j 18:06	13°♁49'03	1°02'10	conjunction	-3241 Jun 14 j 09:47	25°♁01'51	4°20'59
	-3249 Jul 19 j 23:40	15°♁		minimum elong	-3241 Jun 14 j 09:39	25°♁01'51	4°21'04
retrograde	-3249 Sep 12 j 09:05	15°♁36'04		retrograde	-3241 Sep 24 j 04:15	26°♁55'52	
	-3249 Nov 06 j 16:20	15°♁♁		opposition	-3241 Dec 11 j 22:33	25°♁46'35	4°48'29
opposition	-3249 Nov 30 j 21:07	14°♁29'11	1°17'45	min. Earth dist.	-3241 Dec 14 j 20:47	25°♁42'33	36.82447 AU
min. Earth dist.	-3249 Dec 03 j 12:36	14°♁25'41	38.81327 AU	direct	-3240 Mar 02 j 13:38	24°♁34'59	
direct	-3248 Feb 20 j 16:29	13°♁20'26		max. Earth dist.	-3240 Jun 11 j 22:38	26°♁25'58	38.69039 AU
	-3248 May 28 j 19:26	15°♁					
max. Earth dist.	-3248 May 31 j 08:32	15°♁04'11	40.69024 AU	conjunction	-3240 Jun 15 j 05:09	26°♁31'42	4°46'44
				minimum elong	-3240 Jun 15 j 04:59	26°♁31'42	4°46'49
conjunction	-3248 Jun 03 j 09:29	15°♁09'10	1°26'09	retrograde	-3240 Sep 24 j 22:13	28°♁26'41	
minimum elong	-3248 Jun 03 j 09:27	15°♁09'10	1°26'13	opposition	-3240 Dec 12 j 16:02	27°♁17'03	5°15'50
retrograde	-3248 Sep 13 j 01:14	16°♁56'56		min. Earth dist.	-3240 Dec 15 j 14:51	27°♁12'57	36.56961 AU
opposition	-3248 Dec 01 j 10:41	15°♁49'45	1°43'13	direct	-3239 Mar 04 j 09:41	26°♁05'01	
min. Earth dist.	-3248 Dec 04 j 03:51	15°♁46'09	38.56700 AU	max. Earth dist.	-3239 Jun 13 j 16:29	27°♁56'55	38.43338 AU
	-3247 Jan 12 j 04:45	15°♁♁					
direct	-3247 Feb 21 j 05:02	14°♁40'39		conjunction	-3239 Jun 17 j 00:51	28°♁02'51	5°12'39
	-3247 Apr 02 j 01:06	15°♁		minimum elong	-3239 Jun 17 j 00:40	28°♁02'50	5°12'45
max. Earth dist.	-3247 Jun 02 j 00:39	16°♁25'15	40.44315 AU	retrograde	-3239 Sep 26 j 18:50	29°♁58'48	
				opposition	-3239 Dec 14 j 10:02	28°♁48'48	5°43'21
conjunction	-3247 Jun 05 j 01:15	16°♁30'16	1°50'28	min. Earth dist.	-3239 Dec 17 j 09:30	28°♁44'38	36.31325 AU
minimum elong	-3247 Jun 05 j 01:12	16°♁30'15	1°50'34	direct	-3238 Mar 06 j 03:06	27°♁36'19	
retrograde	-3247 Sep 14 j 15:58	18°♁18'49		max. Earth dist.	-3238 Jun 15 j 12:27	29°♁29'15	38.17475 AU
opposition	-3247 Dec 03 j 00:39	17°♁11'20	2°08'57				
min. Earth dist.	-3247 Dec 05 j 17:39	17°♁07'43	38.32006 AU	conjunction	-3238 Jun 18 j 21:17	29°♁35'16	5°38'43
direct	-3246 Feb 22 j 21:37	16°♁01'53		minimum elong	-3238 Jun 18 j 21:06	29°♁35'15	5°38'49
max. Earth dist.	-3246 Jun 03 j 15:02	17°♁47'15	40.19553 AU		-3238 Jul 02 j 20:08	0°♁	

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Attention, astronomical year style is used: The year -3238 in astronomical counting style is the year 3239 BCE in historical counting style.

retrograde	-3238 Sep 28 j 12:55	1°II32'14		opposition	-3230 Dec 29 j 08:04	13°II39'35	9°54'29
opposition	-3238 Dec 16 j 04:39	0°II21'50	6°11'02	min. Earth dist.	-3229 Jan 01 j 10:09	13°II35'00	34.02891 AU
min. Earth dist.	-3238 Dec 19 j 05:28	0°II17'33	36.05570 AU	direct	-3229 Mar 20 j 16:24	12°II23'04	
	-3238 Dec 31 j 22:16	30°R8		max. Earth dist.	-3229 Jul 01 j 02:58	14°II26'51	35.87567 AU
direct	-3237 Mar 07 j 20:46	29°808'54					
	-3237 May 10 j 20:48	0°II		conjunction	-3229 Jul 04 j 14:26	14°II33'36	9°34'52
max. Earth dist.	-3237 Jun 17 j 08:52	1°II02'53	37.91539 AU	minimum elong	-3229 Jul 04 j 14:06	14°II33'34	9°34'59
				retrograde	-3229 Oct 14 j 12:59	16°II41'10	
conjunction	-3237 Jun 20 j 18:05	1°II08'58	6°04'53	opposition	-3229 Dec 31 j 08:54	15°II27'16	10°22'10
minimum elong	-3237 Jun 20 j 17:52	1°II08'57	6°05'00	min. Earth dist.	-3228 Jan 03 j 12:18	15°II22'36	33.78166 AU
retrograde	-3237 Sep 30 j 10:12	3°II06'58		direct	-3228 Mar 21 j 14:08	14°II10'19	
opposition	-3237 Dec 17 j 23:48	1°II56'10	6°38'51	max. Earth dist.	-3228 Jul 02 j 06:23	16°II15'31	35.62612 AU
min. Earth dist.	-3237 Dec 21 j 00:16	1°II51'53	35.79792 AU				
direct	-3236 Mar 08 j 14:54	0°II42'46		conjunction	-3228 Jul 05 j 17:04	16°II22'16	10°00'44
max. Earth dist.	-3236 Jun 18 j 04:59	2°II37'47	37.65583 AU	minimum elong	-3228 Jul 05 j 16:44	16°II22'15	10°00'50
				retrograde	-3228 Oct 15 j 17:05	18°II31'09	
conjunction	-3236 Jun 21 j 15:17	2°II44'00	6°31'09	opposition	-3227 Jan 01 j 10:24	17°II16'51	10°49'42
minimum elong	-3236 Jun 21 j 15:04	2°II43'59	6°31'15	min. Earth dist.	-3227 Jan 04 j 13:14	17°II12'11	33.53528 AU
retrograde	-3236 Oct 01 j 09:01	4°II43'05		direct	-3227 Mar 23 j 16:43	15°II59'26	
opposition	-3236 Dec 18 j 19:37	3°II31'51	7°06'46	max. Earth dist.	-3227 Jul 04 j 08:27	18°II05'55	35.37749 AU
min. Earth dist.	-3236 Dec 21 j 21:28	3°II27'28	35.54054 AU				
direct	-3235 Mar 10 j 08:18	2°II17'59		conjunction	-3227 Jul 07 j 20:30	18°II12'51	10°26'23
max. Earth dist.	-3235 Jun 20 j 03:38	4°II14'12	37.39699 AU	minimum elong	-3227 Jul 07 j 20:08	18°II12'49	10°26'29
				retrograde	-3227 Oct 17 j 23:39	20°II23'02	
conjunction	-3235 Jun 23 j 13:14	4°II20'25	6°57'28	opposition	-3226 Jan 03 j 12:33	19°II08'19	11°16'59
minimum elong	-3235 Jun 23 j 12:59	4°II20'24	6°57'34	min. Earth dist.	-3226 Jan 06 j 16:04	19°II03'34	33.29023 AU
retrograde	-3235 Oct 03 j 07:05	6°II20'35		direct	-3226 Mar 25 j 18:46	17°II50'24	
opposition	-3235 Dec 20 j 15:53	5°II08'57	7°34'44	max. Earth dist.	-3226 Jul 06 j 13:48	19°II58'22	35.13025 AU
min. Earth dist.	-3235 Dec 23 j 17:03	5°II04'35	35.28424 AU				
direct	-3234 Mar 12 j 05:32	3°II54'37		conjunction	-3226 Jul 10 j 00:48	20°II05'17	10°51'46
max. Earth dist.	-3234 Jun 22 j 00:54	5°II51'56	37.13942 AU	minimum elong	-3226 Jul 10 j 00:27	20°II05'15	10°51'53
				retrograde	-3226 Oct 20 j 03:29	22°II16'48	
conjunction	-3234 Jun 25 j 11:44	5°II58'19	7°23'49	opposition	-3225 Jan 05 j 15:43	21°II01'38	11°44'01
minimum elong	-3234 Jun 25 j 11:29	5°II58'17	7°23'55	min. Earth dist.	-3225 Jan 08 j 19:13	20°II56'52	33.04686 AU
retrograde	-3234 Oct 05 j 07:32	7°II59'36		direct	-3225 Mar 27 j 22:21	19°II43'14	
opposition	-3234 Dec 22 j 12:57	6°II47'35	8°02'45	max. Earth dist.	-3225 Jul 08 j 18:00	21°II52'33	34.88512 AU
min. Earth dist.	-3234 Dec 25 j 14:47	6°II43'09	35.02971 AU				
direct	-3233 Mar 14 j 02:07	5°II32'48		conjunction	-3225 Jul 12 j 05:28	21°II59'35	11°16'51
max. Earth dist.	-3233 Jun 24 j 01:01	7°II31'25	36.88359 AU	minimum elong	-3225 Jul 12 j 05:05	21°II59'33	11°16'57
				retrograde	-3225 Oct 22 j 09:09	24°II12'26	
conjunction	-3233 Jun 27 j 10:53	7°II37'47	7°50'10	opposition	-3224 Jan 07 j 19:31	22°II56'50	12°10'41
minimum elong	-3233 Jun 27 j 10:36	7°II37'46	7°50'16	min. Earth dist.	-3224 Jan 10 j 22:30	22°II52'03	32.80612 AU
retrograde	-3233 Oct 07 j 06:09	9°II40'16		direct	-3224 Mar 29 j 01:23	21°II37'55	
opposition	-3233 Dec 24 j 10:44	8°II27'52	8°30'46	max. Earth dist.	-3224 Jul 10 j 00:24	23°II48'42	34.64276 AU
min. Earth dist.	-3233 Dec 27 j 12:36	8°II23'23	34.77703 AU				
direct	-3232 Mar 15 j 00:32	7°II12'39		conjunction	-3224 Jul 13 j 11:05	23°II55'44	11°41'33
max. Earth dist.	-3232 Jun 25 j 00:01	9°II12'29	36.62970 AU	minimum elong	-3224 Jul 13 j 10:42	23°II55'42	11°41'39
				retrograde	-3224 Oct 23 j 13:46	26°II09'57	
conjunction	-3232 Jun 28 j 10:36	9°II18'58	8°16'28	opposition	-3223 Jan 09 j 00:09	24°II53'53	12°36'57
minimum elong	-3232 Jun 28 j 10:19	9°II18'57	8°16'34	min. Earth dist.	-3223 Jan 12 j 03:32	24°II49'02	32.56868 AU
retrograde	-3232 Oct 08 j 07:18	11°II22'40		direct	-3223 Mar 31 j 04:18	23°II34'28	
opposition	-3232 Dec 25 j 08:59	10°II09'54	8°58'44	max. Earth dist.	-3223 Jul 12 j 07:18	25°II46'42	34.40423 AU
min. Earth dist.	-3232 Dec 28 j 10:38	10°II05'25	34.52638 AU				
direct	-3231 Mar 16 j 21:13	8°II54'16		conjunction	-3223 Jul 15 j 17:17	25°II53'45	12°05'48
max. Earth dist.	-3231 Jun 27 j 00:35	10°II55'25	36.37730 AU	minimum elong	-3223 Jul 15 j 16:53	25°II53'43	12°05'54
				retrograde	-3223 Oct 25 j 21:09	28°II09'20	
conjunction	-3231 Jun 30 j 11:11	11°II01'58	8°42'42	opposition	-3222 Jan 11 j 05:36	26°II52'50	13°02'43
minimum elong	-3231 Jun 30 j 10:52	11°II01'56	8°42'49	min. Earth dist.	-3222 Jan 14 j 07:23	26°II48'03	32.33546 AU
retrograde	-3231 Oct 10 j 06:51	13°II06'55		direct	-3222 Apr 02 j 07:54	25°II32'55	
opposition	-3231 Dec 27 j 08:13	11°II53'48	9°26'39	max. Earth dist.	-3222 Jul 14 j 14:42	27°II46'37	34.17012 AU
min. Earth dist.	-3231 Dec 30 j 10:54	11°II49'13	34.27709 AU				
direct	-3230 Mar 18 j 18:15	10°II37'44		conjunction	-3222 Jul 18 j 00:17	27°II53'42	12°29'31
max. Earth dist.	-3230 Jun 29 j 01:57	12°II40'13	36.12611 AU	minimum elong	-3222 Jul 17 j 23:53	27°II53'40	12°29'39
					-3222 Oct 02 j 11:27	0°II	
conjunction	-3230 Jul 02 j 12:24	12°II46'50	9°08'51	retrograde	-3222 Oct 28 j 04:04	0°II10'41	
minimum elong	-3230 Jul 02 j 12:06	12°II46'48	9°08'58		-3222 Nov 23 j 08:26	30°RII	
retrograde	-3230 Oct 12 j 09:26	14°II53'05		opposition	-3221 Jan 13 j 12:06	28°II53'44	13°27'55

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Attention, astronomical year style is used: The year -3221 in astronomical counting style is the year 3222 BCE in historical counting style.

min. Earth dist.	-3221 Jan 16 j 14:08	28°II48'55	32.10718 AU	min. Earth dist.	-3213 Feb 02 j 17:48	16°☾12'56	30.47514 AU
direct	-3221 Apr 04 j 12:05	27°II33'20		direct	-3213 Apr 21 j 14:52	14°☾53'45	
max. Earth dist.	-3221 Jul 17 j 00:25	29°II48'39	33.94141 AU	max. Earth dist.	-3213 Aug 04 j 04:35	17°☾21'17	32.30700 AU
conjunction	-3221 Jul 20 j 08:03	29°II55'39	12°52'40	conjunction	-3213 Aug 07 j 03:17	17°☾27'58	15°28'20
minimum elong	-3221 Jul 20 j 07:38	29°II55'36	12°52'46	minimum elong	-3213 Aug 07 j 02:55	17°☾27'56	15°28'26
	-3221 Jul 22 j 09:40	0°☾		retrograde	-3213 Nov 17 j 20:28	19°☾57'32	
retrograde	-3221 Oct 30 j 13:07	2°☾14'02		opposition	-3212 Feb 02 j 14:58	18°☾37'08	16°36'40
opposition	-3220 Jan 15 j 19:21	0°☾56'40	13°52'27	min. Earth dist.	-3212 Feb 05 j 08:06	18°☾32'41	30.29597 AU
min. Earth dist.	-3220 Jan 18 j 19:32	0°☾51'56	31.88443 AU	direct	-3212 Apr 23 j 03:08	17°☾13'06	
direct	-3220 Feb 24 j 19:33	30°RII		max. Earth dist.	-3212 Aug 05 j 21:58	19°☾42'10	32.12878 AU
	-3220 Apr 05 j 18:46	29°II35'49		conjunction	-3212 Aug 08 j 18:00	19°☾48'39	15°43'02
max. Earth dist.	-3220 May 15 j 23:13	0°☾		minimum elong	-3212 Aug 08 j 17:41	19°☾48'38	15°43'08
	-3220 Jul 18 j 08:54	1°☾52'37	33.71831 AU	retrograde	-3212 Nov 19 j 12:02	22°☾19'29	
conjunction	-3220 Jul 21 j 16:27	1°☾59'40	13°15'08	opposition	-3211 Feb 04 j 06:23	20°☾58'43	16°51'58
minimum elong	-3220 Jul 21 j 16:04	1°☾59'38	13°15'15	min. Earth dist.	-3211 Feb 06 j 21:05	20°☾54'25	30.12373 AU
retrograde	-3220 Oct 31 j 23:56	4°☾19'30		direct	-3211 Apr 25 j 18:13	19°☾34'19	
opposition	-3219 Jan 17 j 03:32	3°☾01'43	14°16'16	max. Earth dist.	-3211 Aug 08 j 14:27	22°☾04'43	31.95803 AU
min. Earth dist.	-3219 Jan 20 j 03:34	2°☾56'59	31.66738 AU	conjunction	-3211 Aug 11 j 09:23	22°☾11'09	15°56'23
direct	-3219 Apr 08 j 00:18	1°☾40'27		minimum elong	-3211 Aug 11 j 09:04	22°☾11'07	15°56'29
max. Earth dist.	-3219 Jul 20 j 20:34	3°☾58'55	33.50082 AU	retrograde	-3211 Nov 22 j 05:06	24°☾43'12	
conjunction	-3219 Jul 24 j 01:56	4°☾05'50	13°36'52	opposition	-3210 Feb 06 j 22:36	23°☾22'04	17°05'48
minimum elong	-3219 Jul 24 j 01:31	4°☾05'48	13°36'58	min. Earth dist.	-3210 Feb 09 j 12:06	23°☾17'50	29.95940 AU
retrograde	-3219 Nov 03 j 10:39	6°☾27'06		direct	-3210 Apr 28 j 07:42	21°☾57'19	
opposition	-3218 Jan 19 j 12:33	5°☾08'57	14°39'17	max. Earth dist.	-3210 Aug 11 j 10:00	24°☾29'14	31.79584 AU
min. Earth dist.	-3218 Jan 22 j 11:22	5°☾04'16	31.45571 AU	conjunction	-3210 Aug 14 j 01:28	24°☾35'22	16°08'19
direct	-3218 Apr 10 j 09:20	3°☾47'17		minimum elong	-3210 Aug 14 j 01:12	24°☾35'21	16°08'25
max. Earth dist.	-3218 Jul 23 j 06:48	6°☾07'14	33.28872 AU	retrograde	-3210 Nov 24 j 22:13	27°☾08'37	
conjunction	-3218 Jul 26 j 12:06	6°☾14'13	13°57'49	opposition	-3209 Feb 09 j 15:48	25°☾47'09	17°18'02
minimum elong	-3218 Jul 26 j 11:43	6°☾14'10	13°57'56	min. Earth dist.	-3209 Feb 12 j 02:43	25°☾43'05	29.80371 AU
retrograde	-3218 Nov 06 j 00:36	8°☾36'55		direct	-3209 May 01 j 00:53	24°☾22'07	
opposition	-3217 Jan 21 j 22:38	7°☾18'23	15°01'27	max. Earth dist.	-3209 Aug 14 j 03:53	26°☾55'16	31.64300 AU
min. Earth dist.	-3217 Jan 24 j 20:35	7°☾13'44	31.24938 AU	conjunction	-3209 Aug 16 j 17:53	27°☾01'19	16°18'43
direct	-3217 Apr 12 j 18:42	5°☾56'19		minimum elong	-3209 Aug 16 j 17:37	27°☾01'18	16°18'48
max. Earth dist.	-3217 Jul 25 j 19:53	8°☾17'55	33.08173 AU	retrograde	-3209 Nov 27 j 18:03	29°☾35'42	
conjunction	-3217 Jul 28 j 23:08	8°☾24'46	14°17'55	opposition	-3208 Feb 12 j 09:40	28°☾13'56	17°28'36
minimum elong	-3217 Jul 28 j 22:44	8°☾24'44	14°18'01	min. Earth dist.	-3208 Feb 14 j 18:12	28°☾10'01	29.65753 AU
retrograde	-3217 Nov 08 j 12:07	10°☾48'54		direct	-3208 May 02 j 17:51	26°☾48'38	
opposition	-3216 Jan 24 j 09:47	9°☾30'00	15°22'40	max. Earth dist.	-3208 Aug 16 j 00:56	29°☾23'14	31.50003 AU
min. Earth dist.	-3216 Jan 27 j 07:16	9°☾25'21	31.04799 AU	conjunction	-3208 Aug 18 j 11:10	29°☾28'57	16°27'30
direct	-3216 Apr 14 j 04:55	8°☾07'32		minimum elong	-3208 Aug 18 j 10:58	29°☾28'56	16°27'35
max. Earth dist.	-3216 Jul 27 j 08:18	10°☾30'37	32.87992 AU		-3208 Aug 31 j 16:59	0°♁	
conjunction	-3216 Jul 30 j 10:57	10°☾37'29	14°37'06	retrograde	-3208 Nov 29 j 11:35	2°♁04'25	
minimum elong	-3216 Jul 30 j 10:34	10°☾37'27	14°37'12	opposition	-3207 Feb 14 j 04:12	0°♁42'24	17°37'24
retrograde	-3216 Nov 10 j 02:05	13°☾03'01		min. Earth dist.	-3207 Feb 16 j 10:42	0°♁38'37	29.52097 AU
opposition	-3215 Jan 25 j 21:32	11°☾43'45	15°42'54		-3207 Mar 12 j 17:20	30°R☾	
min. Earth dist.	-3215 Jan 28 j 17:28	11°☾39'11	30.85173 AU	direct	-3207 May 05 j 11:24	29°☾16'53	
direct	-3215 Apr 16 j 15:43	10°☾20'53			-3207 Jun 26 j 01:55	0°♁	
max. Earth dist.	-3215 Jul 29 j 22:26	12°☾45'30	32.68321 AU	max. Earth dist.	-3207 Aug 18 j 20:30	1°♁52'40	31.36718 AU
conjunction	-3215 Aug 01 j 23:45	12°☾52'19	14°55'16	conjunction	-3207 Aug 21 j 04:54	1°♁58'15	16°34'37
minimum elong	-3215 Aug 01 j 23:22	12°☾52'17	14°55'22	minimum elong	-3207 Aug 21 j 04:42	1°♁58'14	16°34'43
retrograde	-3215 Nov 12 j 15:12	15°☾19'13		retrograde	-3207 Dec 02 j 08:59	4°♁34'45	
opposition	-3214 Jan 28 j 10:33	13°☾59'34	16°02'02	opposition	-3206 Feb 16 j 23:30	3°♁12'31	17°44'23
min. Earth dist.	-3214 Jan 31 j 06:19	13°☾55'00	30.66061 AU	min. Earth dist.	-3206 Feb 19 j 03:01	3°♁08'55	29.39422 AU
direct	-3214 Apr 19 j 02:23	12°☾36'19		direct	-3206 May 08 j 05:53	1°♁46'49	
max. Earth dist.	-3214 Aug 01 j 13:19	15°☾02'26	32.49212 AU	max. Earth dist.	-3206 Aug 21 j 18:22	4°♁23'53	31.24415 AU
conjunction	-3214 Aug 04 j 13:06	15°☾09'10	15°12'23	conjunction	-3206 Aug 23 j 23:10	4°♁29'08	16°40'01
minimum elong	-3214 Aug 04 j 12:46	15°☾09'08	15°12'29	minimum elong	-3206 Aug 23 j 23:03	4°♁29'07	16°40'06
retrograde	-3214 Nov 15 j 06:17	17°☾37'24		retrograde	-3206 Dec 05 j 04:46	7°♁06'36	
opposition	-3213 Jan 31 j 00:17	16°☾17'24	16°19'59	opposition	-3205 Feb 19 j 19:43	5°♁44'09	17°49'29

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Attention, astronomical year style is used: The year -3205 in astronomical counting style is the year 3206 BCE in historical counting style.

min. Earth dist.	-3205 Feb 21 j 21:35	5°Ω40'40	29.27689 AU	min. Earth dist.	-3197 Mar 14 j 08:34	26°Ω29'18	28.67505 AU
direct	-3205 May 11 j 01:01	4°Ω18'19		direct	-3197 Jun 01 j 03:32	25°Ω04'47	
max. Earth dist.	-3205 Aug 24 j 15:21	6°Ω56'26	31.13092 AU	max. Earth dist.	-3197 Sep 15 j 08:36	27°Ω47'53	30.57547 AU
conjunction	-3205 Aug 26 j 17:52	7°Ω01'29	16°43'38	conjunction	-3197 Sep 16 j 09:18	27°Ω50'25	16°05'29
minimum elong	-3205 Aug 26 j 17:45	7°Ω01'28	16°43'44	minimum elong	-3197 Sep 16 j 09:30	27°Ω50'26	16°05'33
retrograde	-3205 Dec 08 j 01:58	9°Ω39'49		retrograde	-3197 Nov 16 j 14:45	0°η	
opposition	-3204 Feb 22 j 16:20	8°Ω17'12	17°52'40	retrograde	-3197 Dec 28 j 22:41	0°η31'59	
min. Earth dist.	-3204 Feb 24 j 14:44	8°Ω13'57	29.16892 AU	retrograde	-3196 Feb 11 j 06:15	30°RΩ	
direct	-3204 May 12 j 21:12	6°Ω51'15		opposition	-3196 Mar 15 j 05:04	29°Ω08'18	17°05'12
max. Earth dist.	-3204 Aug 26 j 13:31	9°Ω30'23	31.02707 AU	min. Earth dist.	-3196 Mar 16 j 04:37	29°Ω06'39	28.64698 AU
conjunction	-3204 Aug 28 j 13:06	9°Ω35'09	16°45'28	direct	-3196 Jun 03 j 02:37	27°Ω41'58	
minimum elong	-3204 Aug 28 j 13:03	9°Ω35'09	16°45'33	max. Earth dist.	-3196 Sep 06 j 23:49	0°η	
retrograde	-3204 Dec 09 j 21:47	12°Ω14'17		max. Earth dist.	-3196 Sep 17 j 07:13	0°η25'08	30.55588 AU
opposition	-3203 Feb 24 j 13:45	10°Ω51'29	17°53'53	conjunction	-3196 Sep 18 j 05:10	0°η27'22	15°52'03
min. Earth dist.	-3203 Feb 26 j 10:43	10°Ω48'20	29.06995 AU	minimum elong	-3196 Sep 18 j 05:25	0°η27'24	15°52'05
direct	-3203 May 15 j 16:29	9°Ω25'25		retrograde	-3196 Dec 30 j 20:51	3°η08'55	
max. Earth dist.	-3203 Aug 29 j 11:55	12°Ω05'26	30.93264 AU	opposition	-3195 Mar 18 j 04:15	1°η45'12	16°49'54
conjunction	-3203 Aug 31 j 08:40	12°Ω09'57	16°45'27	min. Earth dist.	-3195 Mar 18 j 23:30	1°η43'51	28.63118 AU
minimum elong	-3203 Aug 31 j 08:37	12°Ω09'57	16°45'32	direct	-3195 Jun 06 j 00:58	0°η18'59	
retrograde	-3203 Dec 12 j 19:59	14°Ω49'45		max. Earth dist.	-3195 Sep 20 j 07:49	3°η02'20	30.54876 AU
opposition	-3202 Feb 27 j 11:33	13°Ω26'48	17°53'08	conjunction	-3195 Sep 21 j 00:59	3°η04'05	15°36'43
min. Earth dist.	-3202 Mar 01 j 04:56	13°Ω23'53	28.97994 AU	minimum elong	-3195 Sep 21 j 01:16	3°η04'07	15°36'46
direct	-3202 May 18 j 13:57	12°Ω00'38		retrograde	-3194 Jan 02 j 17:10	5°η45'30	
max. Earth dist.	-3202 Sep 01 j 10:26	14°Ω41'24	30.84749 AU	opposition	-3194 Mar 21 j 03:33	4°η21'50	16°32'33
conjunction	-3202 Sep 03 j 04:36	14°Ω45'40	16°43'35	min. Earth dist.	-3194 Mar 21 j 19:56	4°η20'41	28.62748 AU
minimum elong	-3202 Sep 03 j 04:38	14°Ω45'40	16°43'39	direct	-3194 Jun 09 j 00:42	2°η55'47	
retrograde	-3202 Sep 09 j 02:24	15°Ω		conjunction	-3194 Sep 23 j 20:29	5°η40'28	15°19'32
opposition	-3202 Dec 15 j 15:44	17°Ω26'02		minimum elong	-3194 Sep 23 j 20:48	5°η40'30	15°19'34
min. Earth dist.	-3201 Mar 02 j 09:59	16°Ω02'55	17°50'20	max. Earth dist.	-3194 Sep 23 j 06:15	5°η39'01	30.55408 AU
direct	-3201 Mar 04 j 01:38	16°Ω00'08	28.89913 AU	retrograde	-3193 Jan 05 j 15:01	8°η21'40	
retrograde	-3201 Apr 13 j 03:36	15°RΩ		opposition	-3193 Mar 24 j 02:35	6°η58'04	16°13'15
opposition	-3201 Mar 02 j 09:59	16°Ω02'55	17°50'20	min. Earth dist.	-3193 Mar 24 j 14:20	6°η57'15	28.63578 AU
min. Earth dist.	-3201 Mar 04 j 01:38	16°Ω00'08	28.89913 AU	direct	-3193 Jun 11 j 23:47	5°η32'14	
direct	-3201 May 21 j 10:02	14°Ω36'40		conjunction	-3193 Sep 26 j 15:45	8°η16'25	15°00'34
retrograde	-3201 Jun 27 j 14:02	15°Ω		minimum elong	-3193 Sep 26 j 16:05	8°η16'27	15°00'37
max. Earth dist.	-3201 Sep 04 j 10:03	17°Ω18'09	30.77205 AU	max. Earth dist.	-3193 Sep 26 j 05:48	8°η15'24	30.57125 AU
conjunction	-3201 Sep 06 j 00:38	17°Ω22'04	16°39'49	retrograde	-3192 Jan 08 j 10:50	10°η57'18	
minimum elong	-3201 Sep 06 j 00:40	17°Ω22'04	16°39'53	opposition	-3192 Mar 26 j 01:35	9°η33'49	15°52'03
retrograde	-3201 Dec 18 j 12:06	20°Ω02'53		min. Earth dist.	-3192 Mar 26 j 10:57	9°η33'10	28.65547 AU
opposition	-3200 Mar 04 j 08:37	18°Ω39'38	17°45'29	direct	-3192 Jun 13 j 21:56	8°η08'14	
min. Earth dist.	-3200 Mar 05 j 20:42	18°Ω37'05	28.82764 AU	conjunction	-3192 Sep 28 j 10:44	10°η51'47	14°39'54
direct	-3200 May 23 j 09:14	17°Ω13'19		minimum elong	-3192 Sep 28 j 11:06	10°η51'49	14°39'55
max. Earth dist.	-3200 Sep 06 j 08:33	19°Ω55'15	30.70645 AU	max. Earth dist.	-3192 Sep 28 j 03:54	10°η51'05	30.59985 AU
conjunction	-3200 Sep 07 j 20:50	19°Ω58'57	16°34'08	retrograde	-3191 Jan 10 j 08:22	13°η32'16	
minimum elong	-3200 Sep 07 j 20:56	19°Ω58'57	16°34'12	opposition	-3191 Mar 29 j 00:03	12°η08'55	15°29'02
retrograde	-3200 Dec 20 j 09:23	22°Ω40'07		min. Earth dist.	-3191 Mar 29 j 05:03	12°η08'34	28.68603 AU
opposition	-3199 Mar 07 j 07:23	21°Ω16'42	17°38'34	direct	-3191 Jun 16 j 21:42	10°η43'34	
min. Earth dist.	-3199 Mar 08 j 17:05	21°Ω14'20	28.76607 AU	conjunction	-3191 Oct 01 j 05:26	13°η26'26	14°17'37
direct	-3199 May 26 j 05:38	19°Ω50'19		minimum elong	-3191 Oct 01 j 05:49	13°η26'28	14°17'39
max. Earth dist.	-3199 Sep 09 j 09:05	22°Ω32'48	30.65141 AU	max. Earth dist.	-3191 Oct 01 j 02:10	13°η26'06	30.63915 AU
conjunction	-3199 Sep 10 j 17:09	22°Ω36'05	16°26'32	retrograde	-3190 Jan 13 j 03:23	16°η06'25	
minimum elong	-3199 Sep 10 j 17:16	22°Ω36'05	16°26'36	opposition	-3190 Mar 31 j 22:35	14°η43'12	15°04'20
retrograde	-3199 Dec 23 j 05:21	25°Ω17'28		min. Earth dist.	-3190 Apr 01 j 01:14	14°η43'01	28.72707 AU
opposition	-3198 Mar 10 j 06:33	23°Ω53'57	17°29'33	direct	-3190 Jun 19 j 19:11	13°η18'08	
min. Earth dist.	-3198 Mar 11 j 12:47	23°Ω51'49	28.71489 AU	conjunction	-3190 Oct 03 j 23:38	16°η00'10	13°53'47
direct	-3198 May 29 j 05:18	22°Ω27'33		minimum elong	-3190 Oct 04 j 00:01	16°η00'12	13°53'48
max. Earth dist.	-3198 Sep 12 j 07:38	25°Ω10'16	30.60748 AU	max. Earth dist.	-3190 Oct 03 j 23:53	16°η00'12	30.68894 AU
conjunction	-3198 Sep 13 j 13:08	25°Ω13'17	16°16'59	retrograde	-3189 Jan 15 j 21:50	18°η39'33	
minimum elong	-3198 Sep 13 j 13:19	25°Ω13'18	16°17'02	opposition	-3189 Apr 03 j 20:37	17°η16'30	14°38'01
retrograde	-3198 Dec 26 j 02:51	27°Ω54'49					
opposition	-3197 Mar 13 j 05:49	26°Ω31'11	17°18'26				

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Attention, astronomical year style is used: The year -3189 in astronomical counting style is the year 3190 BCE in historical counting style.

min. Earth dist.	-3189 Apr 03 j 19:08	17° \mathring{M} 16'36	28.77808 AU	opposition	-3181 Apr 24 j 08:01	6° \mathring{U} 49'26	10°21'09
direct	-3189 Jun 22 j 18:23	15° \mathring{M} 51'43		direct	-3181 Jul 13 j 04:44	5° \mathring{U} 27'15	
conjunction	-3189 Oct 06 j 17:25	18° \mathring{M} 32'50	13°28'31	conjunction	-3181 Oct 25 j 16:38	7° \mathring{U} 58'41	9°25'02
minimum elong	-3189 Oct 06 j 17:50	18° \mathring{M} 32'52	13°28'33	minimum elong	-3181 Oct 25 j 17:01	7° \mathring{U} 58'43	9°25'01
max. Earth dist.	-3189 Oct 06 j 20:28	18° \mathring{M} 33'08	30.74862 AU	max. Earth dist.	-3181 Oct 26 j 22:25	8° \mathring{U} 01'32	31.59279 AU
retrograde	-3188 Jan 18 j 16:27	21° \mathring{M} 11'32		retrograde	-3180 Feb 06 j 16:03	10° \mathring{U} 29'42	
opposition	-3188 Apr 05 j 18:06	19° \mathring{M} 48'37	14°10'10	min. Earth dist.	-3180 Apr 24 j 16:32	9° \mathring{U} 10'34	29.69366 AU
min. Earth dist.	-3188 Apr 05 j 13:58	19° \mathring{M} 48'54	28.83896 AU	opposition	-3180 Apr 26 j 00:09	9° \mathring{U} 08'28	9°44'48
direct	-3188 Jun 24 j 14:38	18° \mathring{M} 24'06		direct	-3180 Jul 14 j 22:58	7° \mathring{U} 46'42	
conjunction	-3188 Oct 08 j 10:45	21° \mathring{M} 04'13	13°01'53	conjunction	-3180 Oct 27 j 04:31	10° \mathring{U} 16'49	8°50'51
minimum elong	-3188 Oct 08 j 11:10	21° \mathring{M} 04'16	13°01'54	minimum elong	-3180 Oct 27 j 04:52	10° \mathring{U} 16'51	8°50'50
max. Earth dist.	-3188 Oct 08 j 17:35	21° \mathring{M} 04'54	30.81819 AU	max. Earth dist.	-3180 Oct 28 j 13:22	10° \mathring{U} 19'56	31.74397 AU
retrograde	-3187 Jan 20 j 08:50	23° \mathring{M} 42'09		retrograde	-3179 Feb 08 j 05:15	12° \mathring{U} 46'43	
opposition	-3187 Apr 08 j 15:08	22° \mathring{M} 19'23	13°40'56	min. Earth dist.	-3179 Apr 27 j 06:05	11° \mathring{U} 28'03	29.84590 AU
min. Earth dist.	-3187 Apr 08 j 07:30	22° \mathring{M} 19'55	28.90939 AU	opposition	-3179 Apr 28 j 15:55	11° \mathring{U} 25'48	9°07'54
direct	-3187 Jun 27 j 12:58	20° \mathring{M} 55'09		direct	-3179 Jul 17 j 14:38	10° \mathring{U} 04'29	
conjunction	-3187 Oct 11 j 03:15	23° \mathring{M} 34'10	12°34'00	conjunction	-3179 Oct 29 j 15:41	12° \mathring{U} 33'14	8°16'12
minimum elong	-3187 Oct 11 j 03:40	23° \mathring{M} 34'12	12°34'01	minimum elong	-3179 Oct 29 j 16:01	12° \mathring{U} 33'16	8°16'11
max. Earth dist.	-3187 Oct 11 j 12:31	23° \mathring{M} 35'05	30.89745 AU	max. Earth dist.	-3179 Oct 31 j 03:31	12° \mathring{U} 36'37	31.90364 AU
retrograde	-3186 Jan 23 j 01:10	26° \mathring{M} 11'15		retrograde	-3178 Feb 10 j 15:51	15° \mathring{U} 02'02	
opposition	-3186 Apr 11 j 11:38	24° \mathring{M} 48'38	13°10'22	min. Earth dist.	-3178 Apr 29 j 17:49	13° \mathring{U} 43'53	30.00619 AU
min. Earth dist.	-3186 Apr 11 j 00:40	24° \mathring{M} 49'23	28.98980 AU	opposition	-3178 May 01 j 06:52	13° \mathring{U} 41'27	8°30'32
direct	-3186 Jun 30 j 08:42	23° \mathring{M} 24'41		direct	-3178 Jul 20 j 07:11	12° \mathring{U} 20'34	
conjunction	-3186 Oct 13 j 19:17	26° \mathring{M} 02'32	12°04'55	conjunction	-3178 Nov 01 j 02:12	14° \mathring{U} 47'57	7°41'09
minimum elong	-3186 Oct 13 j 19:41	26° \mathring{M} 02'34	12°04'56	minimum elong	-3178 Nov 01 j 02:31	14° \mathring{U} 47'58	7°41'07
max. Earth dist.	-3186 Oct 14 j 08:57	26° \mathring{M} 03'53	30.98684 AU	max. Earth dist.	-3178 Nov 02 j 16:01	14° \mathring{U} 51'29	32.07077 AU
retrograde	-3185 Jan 25 j 15:36	28° \mathring{M} 38'41		retrograde	-3177 Feb 13 j 02:45	17° \mathring{U} 15'36	
opposition	-3185 Apr 14 j 07:30	27° \mathring{M} 16'14	12°38'34	min. Earth dist.	-3177 May 02 j 05:40	15° \mathring{U} 57'55	30.17401 AU
min. Earth dist.	-3185 Apr 13 j 17:29	27° \mathring{M} 17'12	29.08040 AU	opposition	-3177 May 03 j 21:06	15° \mathring{U} 55'20	7°52'49
direct	-3185 Jul 03 j 04:49	25° \mathring{M} 52'35		direct	-3177 Jul 22 j 21:00	14° \mathring{U} 34'54	
conjunction	-3185 Oct 16 j 10:23	28° \mathring{M} 29'12	11°34'45	conjunction	-3177 Nov 03 j 12:11	17° \mathring{U} 00'54	7°05'49
minimum elong	-3185 Oct 16 j 10:48	28° \mathring{M} 29'14	11°34'46	minimum elong	-3177 Nov 03 j 12:28	17° \mathring{U} 00'56	7°05'47
max. Earth dist.	-3185 Oct 17 j 02:30	28° \mathring{M} 30'47	31.08666 AU	max. Earth dist.	-3177 Nov 05 j 05:09	17° \mathring{U} 04'43	32.24478 AU
retrograde	-3185 Nov 26 j 13:02	0° \mathring{U}		retrograde	-3176 Feb 15 j 11:17	19° \mathring{U} 27'23	
retrograde	-3184 Jan 28 j 07:57	1° \mathring{U} 04'24		min. Earth dist.	-3176 May 03 j 17:02	18° \mathring{U} 10'09	30.34832 AU
min. Earth dist.	-3184 Apr 05 j 01:02	30° \mathring{R} \mathring{M}		opposition	-3176 May 05 j 10:32	18° \mathring{U} 07'27	7°14'51
opposition	-3184 Apr 15 j 08:24	29° \mathring{M} 43'22	29.18174 AU	direct	-3176 Jul 24 j 11:50	16° \mathring{U} 47'27	
direct	-3184 Apr 16 j 02:36	29° \mathring{M} 42'08	12°05'38	conjunction	-3176 Nov 04 j 21:17	19° \mathring{U} 12'03	6°30'16
retrograde	-3184 Jul 04 j 23:06	28° \mathring{M} 18'47		minimum elong	-3176 Nov 04 j 21:33	19° \mathring{U} 12'05	6°30'13
retrograde	-3184 Sep 24 j 10:41	0° \mathring{U}		max. Earth dist.	-3176 Nov 06 j 15:29	19° \mathring{U} 15'57	32.42485 AU
conjunction	-3184 Oct 18 j 01:02	0° \mathring{U} 54'08	11°03'35	retrograde	-3175 Feb 16 j 20:57	21° \mathring{U} 37'22	
minimum elong	-3184 Oct 18 j 01:27	0° \mathring{U} 54'11	11°03'34	min. Earth dist.	-3175 May 06 j 02:42	20° \mathring{U} 20'37	30.52884 AU
max. Earth dist.	-3184 Oct 18 j 21:35	0° \mathring{U} 56'09	31.19721 AU	opposition	-3175 May 07 j 23:09	20° \mathring{U} 17'45	6°36'44
retrograde	-3183 Jan 29 j 21:23	3° \mathring{U} 28'20		direct	-3175 Jul 26 j 23:58	18° \mathring{U} 58'09	
opposition	-3183 Apr 18 j 21:03	2° \mathring{U} 06'17	11°31'41	conjunction	-3175 Nov 07 j 05:52	21° \mathring{U} 21'21	5°54'35
min. Earth dist.	-3183 Apr 18 j 00:12	2° \mathring{U} 07'41	29.29388 AU	minimum elong	-3175 Nov 07 j 06:07	21° \mathring{U} 21'23	5°54'33
direct	-3183 Jul 07 j 18:31	0° \mathring{U} 43'18		max. Earth dist.	-3175 Nov 09 j 03:19	21° \mathring{U} 25'31	32.61074 AU
conjunction	-3183 Oct 20 j 14:54	3° \mathring{U} 17'22	10°31'30	retrograde	-3174 Feb 19 j 03:40	23° \mathring{U} 45'29	
minimum elong	-3183 Oct 20 j 15:18	3° \mathring{U} 17'24	10°31'30	min. Earth dist.	-3174 May 08 j 13:17	22° \mathring{U} 29'07	30.71525 AU
max. Earth dist.	-3183 Oct 21 j 13:54	3° \mathring{U} 19'36	31.31869 AU	opposition	-3174 May 10 j 11:08	22° \mathring{U} 26'10	5°58'33
retrograde	-3182 Feb 01 j 12:51	5° \mathring{U} 50'31		direct	-3174 Jul 29 j 12:24	21° \mathring{U} 06'58	
opposition	-3182 Apr 21 j 14:49	4° \mathring{U} 28'42	10°56'49	conjunction	-3174 Nov 09 j 13:26	23° \mathring{U} 28'46	5°18'51
min. Earth dist.	-3182 Apr 20 j 13:28	4° \mathring{U} 30'25	29.41694 AU	minimum elong	-3174 Nov 09 j 13:39	23° \mathring{U} 28'47	5°18'48
direct	-3182 Jul 10 j 12:12	3° \mathring{U} 06'06		max. Earth dist.	-3174 Nov 11 j 12:04	23° \mathring{U} 33'00	32.80240 AU
conjunction	-3182 Oct 23 j 04:04	5° \mathring{U} 38'52	9°58'37	retrograde	-3173 Feb 21 j 12:17	25° \mathring{U} 51'42	
minimum elong	-3182 Oct 23 j 04:27	5° \mathring{U} 38'54	9°58'36	min. Earth dist.	-3173 May 10 j 21:00	24° \mathring{U} 35'48	30.90775 AU
max. Earth dist.	-3182 Oct 24 j 07:08	5° \mathring{U} 41'28	31.45070 AU	opposition	-3173 May 12 j 22:09	24° \mathring{U} 32'40	5°20'21
retrograde	-3181 Feb 04 j 01:53	8° \mathring{U} 10'58		direct	-3173 Jul 31 j 22:34	23° \mathring{U} 13'52	
min. Earth dist.	-3181 Apr 23 j 04:25	6° \mathring{U} 51'17	29.55043 AU				

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Attention, astronomical year style is used: The year -3173 in astronomical counting style is the year 3174 BCE in historical counting style.

conjunction	-3173 Nov 11 j 20:26	25°♁34'16	4°43'08	conjunction	-3165 Nov 27 j 03:50	11°♁16'02	0°04'42
minimum elong	-3173 Nov 11 j 20:38	25°♁34'17	4°43'05	minimum elong	-3165 Nov 27 j 03:49	11°♁16'02	0°04'38
max. Earth dist.	-3173 Nov 13 j 22:06	25°♁38'43	32.99990 AU	behind sun begin	-3165 Nov 26 j 21:35	11°♁15'32	
retrograde	-3172 Feb 23 j 18:42	27°♁56'00		behind sun end	-3165 Nov 27 j 10:03	11°♁16'32	
min. Earth dist.	-3172 May 12 j 06:02	26°♁40'28	31.10656 AU	max. Earth dist.	-3165 Nov 29 j 19:57	11°♁21'26	34.78499 AU
opposition	-3172 May 14 j 08:20	26°♁37'16	4°42'14	desc. node	-3164 Jan 16 j 23:29	12°♁48'44	
direct	-3172 Aug 02 j 08:34	25°♁18'51		retrograde	-3164 Mar 10 j 02:58	13°♁28'46	
conjunction	-3172 Nov 13 j 02:40	27°♁37'52	4°07'29	min. Earth dist.	-3164 May 27 j 21:25	12°♁16'50	32.90398 AU
minimum elong	-3172 Nov 13 j 02:50	27°♁37'53	4°07'25	opposition	-3164 May 30 j 15:40	12°♁12'49	0°-12'-56
max. Earth dist.	-3172 Nov 15 j 06:07	27°♁42'28	33.20372 AU	direct	-3164 Aug 18 j 19:17	10°♁57'48	
retrograde	-3171 Feb 25 j 02:09	29°♁58'25		conjunction	-3164 Nov 28 j 05:09	13°♁06'41	0°-28'-34
min. Earth dist.	-3171 May 14 j 12:08	28°♁43'23	31.31191 AU	minimum elong	-3164 Nov 28 j 05:08	13°♁06'41	0°28'39
opposition	-3171 May 16 j 17:44	28°♁40'00	4°04'15	max. Earth dist.	-3164 Nov 30 j 22:47	13°♁12'10	35.02483 AU
direct	-3171 Aug 04 j 19:48	27°♁22'00			-3163 Feb 04 j 10:59	15°♁	
conjunction	-3171 Nov 15 j 08:01	29°♁39'40	3°31'57	retrograde	-3163 Mar 12 j 04:50	15°♁18'22	
minimum elong	-3171 Nov 15 j 08:10	29°♁39'41	3°31'55		-3163 Apr 17 j 23:57	15°♁	
max. Earth dist.	-3171 Nov 17 j 13:56	29°♁44'26	33.41383 AU	min. Earth dist.	-3163 May 30 j 01:09	14°♁06'44	33.14490 AU
retrograde	-3171 Nov 24 j 22:37	0°♁		opposition	-3163 Jun 01 j 19:41	14°♁02'43	0°-47'-52
min. Earth dist.	-3170 Feb 27 j 09:19	1°♁59'03		direct	-3163 Aug 20 j 22:18	12°♁48'06	
opposition	-3170 May 16 j 19:12	0°♁44'25	31.52395 AU	conjunction	-3163 Nov 30 j 05:51	14°♁55'46	-1°-1'-15
retrograde	-3170 May 19 j 02:36	0°♁40'57	3°26'27	minimum elong	-3163 Nov 30 j 05:49	14°♁55'46	1°01'20
direct	-3170 Jun 16 j 16:04	30°♁			-3163 Dec 02 j 08:54	15°♁	
	-3170 Aug 07 j 04:25	29°♁23'22		max. Earth dist.	-3163 Dec 03 j 00:38	15°♁01'18	35.26627 AU
	-3170 Sep 25 j 09:37	0°♁		retrograde	-3162 Mar 14 j 05:38	17°♁06'22	
conjunction	-3170 Nov 17 j 12:57	1°♁39'43	2°56'38	min. Earth dist.	-3162 Jun 01 j 02:49	15°♁55'07	33.38726 AU
minimum elong	-3170 Nov 17 j 13:04	1°♁39'44	2°56'34	opposition	-3162 Jun 03 j 22:54	15°♁51'02	-1°-22'-15
max. Earth dist.	-3170 Nov 19 j 21:19	1°♁44'40	33.63035 AU		-3162 Jul 12 j 21:19	15°♁	
retrograde	-3169 Mar 01 j 12:48	3°♁57'56		direct	-3162 Aug 23 j 03:49	14°♁36'46	
min. Earth dist.	-3169 May 19 j 00:36	2°♁43'49	31.74222 AU		-3162 Oct 02 j 01:11	15°♁	
opposition	-3169 May 21 j 10:25	2°♁40'12	2°48'56	conjunction	-3162 Dec 02 j 05:57	16°♁43'16	-1°-33'-26
direct	-3169 Aug 09 j 13:58	1°♁23'03		minimum elong	-3162 Dec 02 j 05:53	16°♁43'16	1°33'32
conjunction	-3169 Nov 19 j 17:02	3°♁38'06	2°21'33	max. Earth dist.	-3162 Dec 05 j 01:15	16°♁48'48	35.50894 AU
minimum elong	-3169 Nov 19 j 17:08	3°♁38'07	2°21'30	retrograde	-3161 Mar 16 j 06:43	18°♁52'48	
max. Earth dist.	-3169 Nov 22 j 02:43	3°♁43'07	33.85259 AU	min. Earth dist.	-3161 Jun 03 j 04:17	17°♁41'52	33.63132 AU
retrograde	-3168 Mar 02 j 17:03	5°♁55'12		opposition	-3161 Jun 06 j 01:22	17°♁37'44	-1°-56'-3
min. Earth dist.	-3168 May 20 j 05:41	4°♁41'32	31.96630 AU	direct	-3161 Aug 25 j 06:42	16°♁23'48	
opposition	-3168 May 22 j 17:40	4°♁37'49	2°11'43	conjunction	-3161 Dec 04 j 05:32	18°♁29'09	-2°-5'-6
direct	-3168 Aug 10 j 21:30	3°♁21'07		minimum elong	-3161 Dec 04 j 05:28	18°♁29'09	2°05'11
conjunction	-3168 Nov 20 j 20:37	5°♁34'54	1°46'46	max. Earth dist.	-3161 Dec 07 j 02:44	18°♁34'48	35.75322 AU
minimum elong	-3168 Nov 20 j 20:41	5°♁34'54	1°46'41	retrograde	-3160 Mar 17 j 04:00	20°♁37'38	
max. Earth dist.	-3168 Nov 23 j 09:09	5°♁40'07	34.07999 AU	min. Earth dist.	-3160 Jun 04 j 05:31	19°♁26'59	33.87715 AU
retrograde	-3167 Mar 04 j 18:47	7°♁50'53		opposition	-3160 Jun 07 j 03:11	19°♁22'51	-2°-29'-15
min. Earth dist.	-3167 May 22 j 11:00	6°♁37'39	32.19524 AU	direct	-3160 Aug 26 j 10:43	18°♁09'15	
opposition	-3167 May 25 j 00:12	6°♁33'52	1°34'53	conjunction	-3160 Dec 05 j 04:17	20°♁13'27	-2°-36'-13
direct	-3167 Aug 13 j 05:45	5°♁17'37		minimum elong	-3160 Dec 05 j 04:12	20°♁13'27	2°36'19
conjunction	-3167 Nov 22 j 23:30	7°♁30'08	1°12'19	max. Earth dist.	-3160 Dec 08 j 01:40	20°♁19'04	35.99935 AU
minimum elong	-3167 Nov 22 j 23:33	7°♁30'08	1°12'16	retrograde	-3159 Mar 19 j 02:00	22°♁20'55	
max. Earth dist.	-3167 Nov 25 j 12:44	7°♁35'23	34.31174 AU	min. Earth dist.	-3159 Jun 06 j 04:38	21°♁10'39	34.12536 AU
retrograde	-3166 Mar 06 j 22:32	9°♁45'02		opposition	-3159 Jun 09 j 04:21	21°♁06'25	-3°-1'-50
min. Earth dist.	-3166 May 24 j 14:17	8°♁32'17	32.42849 AU	direct	-3159 Aug 28 j 12:19	19°♁53'09	
opposition	-3166 May 27 j 06:04	8°♁28'22	0°58'28	conjunction	-3159 Dec 07 j 02:41	21°♁56'15	-3°-6'-45
direct	-3166 Aug 15 j 10:53	7°♁12'33		minimum elong	-3159 Dec 07 j 02:34	21°♁56'15	3°06'50
conjunction	-3166 Nov 25 j 01:54	9°♁23'50	0°38'16	max. Earth dist.	-3159 Dec 10 j 02:22	22°♁02'01	36.24784 AU
minimum elong	-3166 Nov 25 j 01:56	9°♁23'50	0°38'11	retrograde	-3158 Mar 20 j 22:52	24°♁02'44	
max. Earth dist.	-3166 Nov 27 j 17:38	9°♁29'15	34.54701 AU	min. Earth dist.	-3158 Jun 08 j 05:02	22°♁52'46	34.37616 AU
retrograde	-3165 Mar 08 j 23:50	11°♁37'40		opposition	-3158 Jun 11 j 04:59	22°♁48'31	-3°-33'-46
min. Earth dist.	-3165 May 26 j 19:15	10°♁25'16	32.66499 AU	direct	-3158 Aug 30 j 13:29	21°♁35'37	
opposition	-3165 May 29 j 11:21	10°♁21'22	0°22'30	conjunction	-3158 Dec 09 j 00:30	23°♁37'39	-3°-36'-42
direct	-3165 Aug 17 j 15:59	9°♁05'58		minimum elong	-3158 Dec 09 j 00:22	23°♁37'38	3°36'49
				max. Earth dist.	-3158 Dec 12 j 00:34	23°♁43'24	36.49888 AU

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Attention, astronomical year style is used: The year -3157 in astronomical counting style is the year 3158 BCE in historical counting style.

retrograde	-3157 Mar 22 j 21:27	25°M43'10		minimum elong	-3150 Dec 21 j 14:57	6°Z26'55	7°14'18
min. Earth dist.	-3157 Jun 10 j 02:44	24°M33'37	34.62948 AU	max. Earth dist.	-3150 Dec 24 j 20:15	6°Z32'44	38.54262 AU
opposition	-3157 Jun 13 j 04:52	24°M29'16	-4°-5'-2	retrograde	-3149 Apr 04 j 14:28	8°Z25'37	
direct	-3157 Sep 01 j 12:32	23°M16'43		min. Earth dist.	-3149 Jun 23 j 04:29	7°Z18'32	36.68639 AU
conjunction	-3157 Dec 10 j 21:49	25°M17'45	-4°-6'-3	opposition	-3149 Jun 26 j 09:51	7°Z14'11	-7°-50'-59
minimum elong	-3157 Dec 10 j 21:41	25°M17'44	4°06'08	direct	-3149 Sep 14 j 17:34	6°Z04'21	
max. Earth dist.	-3157 Dec 13 j 23:19	25°M23'33	36.75208 AU	conjunction	-3149 Dec 23 j 09:11	7°Z58'06	-7°-38'-36
retrograde	-3156 Mar 23 j 19:45	27°M22'21		minimum elong	-3149 Dec 23 j 09:00	7°Z58'05	7°38'43
min. Earth dist.	-3156 Jun 11 j 01:54	26°M13'06	34.88507 AU	max. Earth dist.	-3149 Dec 26 j 14:56	8°Z03'55	38.79479 AU
opposition	-3156 Jun 14 j 04:13	26°M08'46	-4°-35'-39	retrograde	-3148 Apr 05 j 08:34	9°Z55'57	
direct	-3156 Sep 02 j 11:06	24°M56'35		min. Earth dist.	-3148 Jun 23 j 23:23	8°Z49'07	36.93995 AU
conjunction	-3156 Dec 11 j 18:45	26°M56'38	-4°-34'-47	opposition	-3148 Jun 27 j 05:03	8°Z44'46	-8°-16'-12
minimum elong	-3156 Dec 11 j 18:36	26°M56'37	4°34'53	direct	-3148 Sep 15 j 13:13	7°Z35'12	
max. Earth dist.	-3156 Dec 14 j 21:22	27°M02'29	37.00732 AU	conjunction	-3148 Dec 24 j 02:37	9°Z28'06	-8°-2'-22
retrograde	-3155 Mar 25 j 17:37	29°M00'19		minimum elong	-3148 Dec 24 j 02:24	9°Z28'05	8°02'30
min. Earth dist.	-3155 Jun 12 j 23:27	27°M51'28	35.14236 AU	max. Earth dist.	-3148 Dec 27 j 07:59	9°Z33'51	39.04605 AU
opposition	-3155 Jun 16 j 03:03	27°M47'05	-5°-5'-35	retrograde	-3147 Apr 07 j 02:12	11°Z25'09	
direct	-3155 Sep 04 j 10:18	26°M35'16		min. Earth dist.	-3147 Jun 25 j 17:35	10°Z18'34	37.19315 AU
conjunction	-3155 Dec 13 j 14:58	28°M34'22	-5°-2'-54	opposition	-3147 Jun 29 j 00:02	10°Z14'12	-8°-40'-44
minimum elong	-3155 Dec 13 j 14:49	28°M34'21	5°03'00	direct	-3147 Sep 17 j 08:03	9°Z04'53	
max. Earth dist.	-3155 Dec 16 j 17:59	28°M40'13	37.26380 AU	conjunction	-3147 Dec 25 j 19:41	10°Z56'58	-8°-25'-31
retrograde	-3154 Feb 02 j 07:40	0°Z		minimum elong	-3147 Dec 25 j 19:29	10°Z56'57	8°25'38
min. Earth dist.	-3154 Mar 27 j 15:36	0°Z37'12		max. Earth dist.	-3147 Dec 29 j 02:39	11°Z02'48	39.29705 AU
opposition	-3154 Jun 14 j 21:02	29°M28'42	35.40088 AU	retrograde	-3146 Apr 08 j 15:46	12°Z53'14	
direct	-3154 Jun 18 j 01:31	29°M24'17	-5°-34'-50	min. Earth dist.	-3146 Jun 27 j 12:26	11°Z46'52	37.44617 AU
conjunction	-3154 Sep 06 j 07:51	28°M12'51		opposition	-3146 Jun 30 j 18:30	11°Z42'31	-9°-4'-35
minimum elong	-3154 Dec 09 j 12:40	0°Z		direct	-3146 Sep 19 j 05:50	10°Z33'29	
max. Earth dist.	-3154 Dec 15 j 11:06	0°Z11'01	-5°-30'-24	conjunction	-3146 Dec 27 j 12:26	12°Z24'45	-8°-48'-2
retrograde	-3154 Dec 15 j 10:56	0°Z11'01	5°30'31	minimum elong	-3146 Dec 27 j 12:12	12°Z24'45	8°48'09
min. Earth dist.	-3154 Dec 18 j 15:41	0°Z16'57	37.52098 AU	max. Earth dist.	-3146 Dec 30 j 18:47	12°Z30'31	39.54807 AU
opposition	-3153 Mar 29 j 09:08	2°Z13'00		retrograde	-3145 Apr 10 j 07:49	14°Z20'16	
direct	-3153 Jun 16 j 18:54	1°Z04'48	35.65968 AU	min. Earth dist.	-3145 Jun 29 j 04:53	13°Z14'13	37.69931 AU
conjunction	-3153 Jun 19 j 23:13	1°Z00'25	-6°-3'-25	opposition	-3145 Jul 02 j 12:19	13°Z09'49	-9°-27'-46
minimum elong	-3153 Aug 11 j 04:34	30°RM		direct	-3145 Sep 21 j 00:25	12°Z01'03	
max. Earth dist.	-3153 Sep 08 j 07:51	29°M49'21		conjunction	-3145 Dec 29 j 04:48	13°Z51'33	-9°-9'-55
retrograde	-3153 Oct 05 j 19:30	0°Z		minimum elong	-3145 Dec 29 j 04:36	13°Z51'32	9°10'02
min. Earth dist.	-3153 Dec 17 j 06:42	1°Z46'37	-5°-57'-16	max. Earth dist.	-3144 Jan 01 j 12:17	13°Z57'21	39.79904 AU
opposition	-3153 Dec 17 j 06:32	1°Z46'36	5°57'23	retrograde	-3144 Apr 10 j 23:55	15°Z46'21	
direct	-3153 Dec 20 j 10:37	1°Z52'28	37.77803 AU	min. Earth dist.	-3144 Jun 29 j 23:14	14°Z40'30	37.95241 AU
conjunction	-3152 Mar 30 j 04:15	3°Z47'46		opposition	-3144 Jul 03 j 05:57	14°Z36'09	-9°-50'-16
minimum elong	-3152 Jun 17 j 15:01	2°Z39'56	35.91818 AU	direct	-3144 Sep 21 j 18:04	13°Z27'41	
max. Earth dist.	-3152 Jun 20 j 20:33	2°Z35'30	-6°-31'-18	conjunction	-3144 Dec 29 j 20:43	15°Z17'26	-9°-31'-11
retrograde	-3152 Sep 09 j 05:49	1°Z24'46		minimum elong	-3144 Dec 29 j 20:30	15°Z17'25	9°31'18
min. Earth dist.	-3152 Dec 18 j 01:53	3°Z21'09	-6°-23'-32	max. Earth dist.	-3143 Jan 02 j 04:25	15°Z23'13	40.04993 AU
opposition	-3152 Dec 18 j 01:42	3°Z21'08	6°23'39	retrograde	-3143 Apr 12 j 16:39	17°Z11'32	
direct	-3152 Dec 21 j 07:07	3°Z27'04	38.03421 AU	min. Earth dist.	-3143 Jul 01 j 15:21	16°Z05'59	38.20510 AU
conjunction	-3151 Mar 31 j 22:31	5°Z21'29		opposition	-3143 Jul 04 j 23:06	16°Z01'36	-10°-12'-6
minimum elong	-3151 Jun 19 j 12:49	4°Z13'53	36.17561 AU	direct	-3143 Sep 23 j 10:40	14°Z53'25	
max. Earth dist.	-3151 Jun 22 j 17:32	4°Z09'31	-6°-58'-32	conjunction	-3143 Dec 31 j 12:22	16°Z42'28	-9°-51'-50
retrograde	-3151 Sep 11 j 03:15	2°Z59'07		minimum elong	-3143 Dec 31 j 12:10	16°Z42'27	9°51'57
min. Earth dist.	-3151 Dec 19 j 20:47	4°Z54'36	-6°-49'-10	max. Earth dist.	-3142 Jan 03 j 19:59	16°Z48'12	40.30015 AU
opposition	-3151 Dec 19 j 20:36	4°Z54'35	6°49'16	retrograde	-3142 Apr 14 j 11:10	18°Z35'53	
direct	-3151 Dec 23 j 01:37	5°Z00'26	38.28921 AU	min. Earth dist.	-3142 Jul 03 j 08:23	17°Z30'35	38.45708 AU
conjunction	-3150 Apr 02 j 18:02	6°Z54'07		opposition	-3142 Jul 06 j 15:56	17°Z26'14	-10°-33'-17
minimum elong	-3150 Jun 21 j 07:59	5°Z46'50	36.43167 AU	direct	-3142 Sep 25 j 00:59	16°Z18'20	
max. Earth dist.	-3150 Jun 24 j 13:52	5°Z42'25	-7°-25'-6	conjunction	-3141 Jan 02 j 03:53	18°Z06'42	-10°-11'-53
retrograde	-3150 Sep 12 j 23:09	4°Z32'19		minimum elong	-3141 Jan 02 j 03:40	18°Z06'41	10°12'00
min. Earth dist.	-3150 Dec 21 j 15:09	6°Z26'56	-7°-14'-12	max. Earth dist.	-3141 Jan 05 j 12:19	18°Z12'27	40.54929 AU
opposition				retrograde	-3141 Apr 16 j 01:51	19°Z59'27	

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Attention, astronomical year style is used: The year -3141 in astronomical counting style is the year 3142 BCE in historical counting style.

min. Earth dist.	-3141 Jul 05 j 01:17	18° \mathring{A} 54'24	38.70742 AU	opposition	-3133 Jul 19 j 07:22	29° \mathring{A} 33'10	-13°-16'-48
opposition	-3141 Jul 08 j 08:20	18° \mathring{A} 50'05	-10°-53'-50	direct	-3133 Oct 07 j 21:31	28° \mathring{A} 27'25	
direct	-3141 Sep 26 j 18:24	17° \mathring{A} 42'29			-3132 Jan 08 j 04:11	0° \mathring{C}	
conjunction	-3140 Jan 03 j 19:00	19° \mathring{A} 30'11	-10°-31'-20	conjunction	-3132 Jan 14 j 10:01	0° \mathring{C} 10'11	-12°-46'-58
minimum elong	-3140 Jan 03 j 18:47	19° \mathring{A} 30'10	10°31'28	minimum elong	-3132 Jan 14 j 09:49	0° \mathring{C} 10'10	12°47'06
max. Earth dist.	-3140 Jan 07 j 02:18	19° \mathring{A} 35'49	40.79644 AU	max. Earth dist.	-3132 Jan 17 j 15:53	0° \mathring{C} 15'29	42.67196 AU
retrograde	-3140 Apr 16 j 16:37	21° \mathring{A} 22'17		retrograde	-3132 Apr 27 j 04:11	1° \mathring{C} 57'28	
min. Earth dist.	-3140 Jul 05 j 16:54	20° \mathring{A} 17'30	38.95559 AU	min. Earth dist.	-3132 Jul 16 j 16:58	0° \mathring{C} 54'09	40.83798 AU
opposition	-3140 Jul 09 j 00:22	20° \mathring{A} 13'12	-11°-13'-46	opposition	-3132 Jul 19 j 20:46	0° \mathring{C} 50'09	-13°-32'-3
direct	-3140 Sep 27 j 10:48	19° \mathring{A} 05'52			-3132 Sep 02 j 18:34	30° \mathring{R} \mathring{A}	
				direct	-3132 Oct 08 j 11:12	29° \mathring{A} 44'38	
					-3132 Nov 12 j 06:28	0° \mathring{C}	
conjunction	-3139 Jan 04 j 09:59	20° \mathring{A} 52'55	-10°-50'-13	conjunction	-3131 Jan 14 j 22:39	1° \mathring{C} 26'51	-13°-1'-28
minimum elong	-3139 Jan 04 j 09:46	20° \mathring{A} 52'54	10°50'20	minimum elong	-3131 Jan 14 j 22:29	1° \mathring{C} 26'50	13°01'35
max. Earth dist.	-3139 Jan 07 j 18:00	20° \mathring{A} 58'35	41.04103 AU	max. Earth dist.	-3131 Jan 18 j 04:22	1° \mathring{C} 32'07	42.89700 AU
retrograde	-3139 Apr 18 j 05:32	22° \mathring{A} 44'24		retrograde	-3131 Apr 28 j 17:21	3° \mathring{C} 13'36	
min. Earth dist.	-3139 Jul 07 j 10:08	21° \mathring{A} 39'47	39.20087 AU	min. Earth dist.	-3131 Jul 18 j 05:34	2° \mathring{C} 10'32	41.06400 AU
opposition	-3139 Jul 10 j 16:14	21° \mathring{A} 35'34	-11°-33'-6	opposition	-3131 Jul 21 j 09:48	2° \mathring{C} 06'31	-13°-46'-44
direct	-3139 Sep 29 j 04:42	20° \mathring{A} 28'30		direct	-3131 Oct 09 j 23:28	1° \mathring{C} 01'13	
conjunction	-3138 Jan 06 j 00:37	22° \mathring{A} 14'54	-11°-8'-33	conjunction	-3130 Jan 16 j 10:53	2° \mathring{C} 42'55	-13°-15'-25
minimum elong	-3138 Jan 06 j 00:25	22° \mathring{A} 14'53	11°08'40	minimum elong	-3130 Jan 16 j 10:42	2° \mathring{C} 42'54	13°15'33
max. Earth dist.	-3138 Jan 09 j 07:31	22° \mathring{A} 20'27	41.28257 AU	max. Earth dist.	-3130 Jan 19 j 15:48	2° \mathring{C} 48'06	43.12011 AU
retrograde	-3138 Apr 19 j 20:21	24° \mathring{A} 05'45		retrograde	-3130 Apr 30 j 08:06	4° \mathring{C} 29'09	
min. Earth dist.	-3138 Jul 09 j 01:06	23° \mathring{A} 01'24	39.44280 AU	min. Earth dist.	-3130 Jul 19 j 19:05	3° \mathring{C} 26'16	41.28803 AU
opposition	-3138 Jul 12 j 07:40	22° \mathring{A} 57'10	-11°-51'-50	opposition	-3130 Jul 22 j 22:44	3° \mathring{C} 22'18	-14°00'-52
direct	-3138 Sep 30 j 20:12	21° \mathring{A} 50'21		direct	-3130 Oct 11 j 10:17	2° \mathring{C} 17'14	
conjunction	-3137 Jan 07 j 15:01	23° \mathring{A} 36'06	-11°-26'-19	conjunction	-3129 Jan 17 j 23:11	3° \mathring{C} 58'26	-13°-28'-52
minimum elong	-3137 Jan 07 j 14:49	23° \mathring{A} 36'06	11°26'25	minimum elong	-3129 Jan 17 j 23:02	3° \mathring{C} 58'25	13°29'00
max. Earth dist.	-3137 Jan 10 j 21:33	23° \mathring{A} 41'36	41.52060 AU	max. Earth dist.	-3129 Jan 21 j 04:45	4° \mathring{C} 03'38	43.34096 AU
retrograde	-3137 Apr 21 j 11:46	25° \mathring{A} 26'21		retrograde	-3129 May 01 j 19:31	5° \mathring{C} 44'09	
min. Earth dist.	-3137 Jul 10 j 17:28	24° \mathring{A} 22'07	39.68139 AU	min. Earth dist.	-3129 Jul 21 j 08:30	4° \mathring{C} 41'26	41.50931 AU
opposition	-3137 Jul 13 j 22:43	24° \mathring{A} 17'59	-12°-9'-59	opposition	-3129 Jul 24 j 11:07	4° \mathring{C} 37'32	-14°-14'-29
direct	-3137 Oct 02 j 10:14	23° \mathring{A} 11'23		direct	-3129 Oct 12 j 23:17	3° \mathring{C} 32'42	
conjunction	-3136 Jan 09 j 05:09	24° \mathring{A} 56'30	-11°-43'-33	conjunction	-3128 Jan 19 j 11:08	5° \mathring{C} 13'24	-13°-41'-50
minimum elong	-3136 Jan 09 j 04:57	24° \mathring{A} 56'30	11°43'40	minimum elong	-3128 Jan 19 j 10:58	5° \mathring{C} 13'24	13°41'57
max. Earth dist.	-3136 Jan 12 j 11:47	25° \mathring{A} 01'58	41.75548 AU	max. Earth dist.	-3128 Jan 22 j 15:03	5° \mathring{C} 18'28	43.55888 AU
retrograde	-3136 Apr 22 j 02:11	26° \mathring{A} 46'07		retrograde	-3128 May 02 j 07:59	6° \mathring{C} 58'38	
min. Earth dist.	-3136 Jul 11 j 08:18	25° \mathring{A} 42'05	39.91681 AU	min. Earth dist.	-3128 Jul 21 j 20:37	5° \mathring{C} 56'08	41.72740 AU
opposition	-3136 Jul 14 j 13:21	25° \mathring{A} 37'58	-12°-27'-34	opposition	-3128 Jul 24 j 23:24	5° \mathring{C} 52'14	-14°-27'-35
direct	-3136 Oct 03 j 00:47	24° \mathring{A} 31'35		direct	-3128 Oct 13 j 11:11	4° \mathring{C} 47'37	
conjunction	-3135 Jan 09 j 18:38	26° \mathring{A} 16'05	-12°00'-14	conjunction	-3127 Jan 19 j 22:51	6° \mathring{C} 27'50	-13°-54'-18
minimum elong	-3135 Jan 09 j 18:26	26° \mathring{A} 16'04	12°00'20	minimum elong	-3127 Jan 19 j 22:42	6° \mathring{C} 27'49	13°54'26
max. Earth dist.	-3135 Jan 13 j 00:11	26° \mathring{A} 21'27	41.98749 AU	max. Earth dist.	-3127 Jan 23 j 02:54	6° \mathring{C} 32'53	43.77317 AU
retrograde	-3135 Apr 23 j 17:15	28° \mathring{A} 05'04		retrograde	-3127 May 03 j 16:53	8° \mathring{C} 12'35	
min. Earth dist.	-3135 Jul 12 j 22:37	27° \mathring{A} 01'14	40.14985 AU	min. Earth dist.	-3127 Jul 23 j 10:41	7° \mathring{C} 10'11	41.94154 AU
opposition	-3135 Jul 16 j 03:48	26° \mathring{A} 57'08	-12°-44'-33	opposition	-3127 Jul 26 j 11:34	7° \mathring{C} 06'23	-14°-40'-11
direct	-3135 Oct 04 j 14:04	25° \mathring{A} 50'57		direct	-3127 Oct 15 j 01:50	6° \mathring{C} 01'58	
conjunction	-3134 Jan 11 j 08:06	27° \mathring{A} 34'52	-12°-16'-21	conjunction	-3126 Jan 21 j 10:35	7° \mathring{C} 41'42	-14°-6'-19
minimum elong	-3134 Jan 11 j 07:54	27° \mathring{A} 34'51	12°16'29	minimum elong	-3126 Jan 21 j 10:26	7° \mathring{C} 41'41	14°06'25
max. Earth dist.	-3134 Jan 14 j 14:33	27° \mathring{A} 40'15	42.21735 AU	max. Earth dist.	-3126 Jan 24 j 13:27	7° \mathring{C} 46'39	43.98344 AU
retrograde	-3134 Apr 25 j 04:01	29° \mathring{A} 23'15		retrograde	-3126 May 05 j 03:53	9° \mathring{C} 25'58	
min. Earth dist.	-3134 Jul 14 j 13:40	28° \mathring{A} 19'33	40.38084 AU	min. Earth dist.	-3126 Jul 24 j 22:27	8° \mathring{C} 23'44	42.15131 AU
opposition	-3134 Jul 17 j 17:45	28° \mathring{A} 15'31	-13°00'-58	opposition	-3126 Jul 27 j 23:14	8° \mathring{C} 19'57	-14°-52'-19
direct	-3134 Oct 06 j 06:01	27° \mathring{A} 09'33		direct	-3126 Oct 16 j 14:40	7° \mathring{C} 15'42	
conjunction	-3133 Jan 12 j 21:13	28° \mathring{A} 52'52	-12°-31'-56	conjunction	-3125 Jan 22 j 22:02	8° \mathring{C} 54'58	-14°-17'-53
minimum elong	-3133 Jan 12 j 21:03	28° \mathring{A} 52'51	12°32'03	minimum elong	-3125 Jan 22 j 21:54	8° \mathring{C} 54'57	14°18'00
max. Earth dist.	-3133 Jan 16 j 02:38	28° \mathring{A} 58'10	42.44550 AU	max. Earth dist.	-3125 Jan 25 j 23:43	8° \mathring{C} 59'49	44.18919 AU
retrograde	-3133 Feb 26 j 01:28	0° \mathring{C}		retrograde	-3125 May 06 j 17:41	10° \mathring{C} 38'44	
	-3133 Jun 27 j 14:18	30° \mathring{R} \mathring{A}		min. Earth dist.	-3125 Jul 26 j 11:30	9° \mathring{C} 36'34	42.35664 AU
min. Earth dist.	-3133 Jul 16 j 02:27	29° \mathring{A} 37'15	40.61021 AU				

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Attention, astronomical year style is used: The year -3125 in astronomical counting style is the year 3126 BCE in historical counting style.

opposition	-3125 Jul 29 j 10:53	9°☾32'53	-15°-3'-58	conjunction	-3116 Feb 02 j 18:49	19°☾27'25	-15°-41'-44
direct	-3125 Oct 18 j 00:14	8°☾28'48		minimum elong	-3116 Feb 02 j 18:45	19°☾27'25	15°41'51
conjunction	-3124 Jan 24 j 09:16	10°☾07'34	-14°-29'00	max. Earth dist.	-3116 Feb 05 j 15:19	19°☾31'46	45.89921 AU
minimum elong	-3124 Jan 24 j 09:07	10°☾07'33	14°29'07	retrograde	-3116 May 16 j 09:09	21°☾07'18	
max. Earth dist.	-3124 Jan 27 j 10:50	10°☾12'23	44.39067 AU	min. Earth dist.	-3116 Aug 05 j 13:15	20°☾06'21	44.06661 AU
retrograde	-3124 May 07 j 03:43	11°☾50'50		opposition	-3116 Aug 08 j 07:18	20°☾03'01	-16°-27'-49
min. Earth dist.	-3124 Jul 26 j 23:33	10°☾48'46	42.55770 AU	direct	-3116 Oct 28 j 00:36	19°☾00'25	
opposition	-3124 Jul 29 j 22:03	10°☾45'09	-15°-15'-10	conjunction	-3115 Feb 03 j 04:20	20°☾35'34	-15°-48'-54
direct	-3124 Oct 18 j 12:30	9°☾41'12		minimum elong	-3115 Feb 03 j 04:14	20°☾35'33	15°49'01
conjunction	-3123 Jan 24 j 20:07	11°☾19'29	-14°-39'-40	max. Earth dist.	-3115 Feb 06 j 00:07	20°☾39'50	46.07485 AU
minimum elong	-3123 Jan 24 j 20:00	11°☾19'29	14°39'48	retrograde	-3115 May 17 j 19:12	22°☾15'06	
max. Earth dist.	-3123 Jan 27 j 20:01	11°☾24'10	44.58834 AU	min. Earth dist.	-3115 Aug 07 j 00:36	21°☾14'14	44.24139 AU
retrograde	-3123 May 08 j 14:43	13°☾02'15		opposition	-3115 Aug 09 j 16:41	21°☾11'00	-16°-34'-55
min. Earth dist.	-3123 Jul 28 j 10:44	12°☾00'20	42.75539 AU	direct	-3115 Oct 29 j 10:24	20°☾08'34	
opposition	-3123 Jul 31 j 09:04	11°☾56'43	-15°-25'-53	conjunction	-3114 Feb 04 j 13:50	21°☾43'22	-15°-55'-41
direct	-3123 Oct 19 j 23:01	10°☾52'55		minimum elong	-3114 Feb 04 j 13:47	21°☾43'22	15°55'48
conjunction	-3122 Jan 26 j 06:48	12°☾30'45	-14°-49'-53	max. Earth dist.	-3114 Feb 07 j 08:54	21°☾47'35	46.24622 AU
minimum elong	-3122 Jan 26 j 06:41	12°☾30'44	14°50'00	retrograde	-3114 May 19 j 04:38	23°☾22'32	
max. Earth dist.	-3122 Jan 29 j 07:12	12°☾35'26	44.78284 AU	min. Earth dist.	-3114 Aug 08 j 10:18	22°☾21'49	44.41137 AU
retrograde	-3122 May 09 j 22:53	14°☾13'02		opposition	-3114 Aug 11 j 01:46	22°☾18'37	-16°-41'-38
min. Earth dist.	-3122 Jul 29 j 23:00	13°☾11'11	42.95006 AU	direct	-3114 Oct 30 j 19:36	21°☾16'20	
opposition	-3122 Aug 01 j 19:51	13°☾07'39	-15°-36'-8	conjunction	-3113 Feb 05 j 23:08	22°☾50'48	-16°-2'-7
direct	-3122 Oct 21 j 12:05	12°☾03'59		minimum elong	-3113 Feb 05 j 23:03	22°☾50'47	16°02'13
conjunction	-3121 Jan 27 j 17:21	13°☾41'22	-14°-59'-39	max. Earth dist.	-3113 Feb 08 j 16:02	22°☾54'51	46.41268 AU
minimum elong	-3121 Jan 27 j 17:14	13°☾41'22	14°59'46	retrograde	-3113 May 20 j 16:29	24°☾29'36	
max. Earth dist.	-3121 Jan 30 j 16:39	13°☾45'59	44.97475 AU	min. Earth dist.	-3113 Aug 09 j 20:24	23°☾28'56	44.57653 AU
retrograde	-3121 May 11 j 07:54	15°☾23'12		opposition	-3113 Aug 12 j 10:40	23°☾25'50	-16°-47'-59
min. Earth dist.	-3121 Jul 31 j 08:48	14°☾21'32	43.14227 AU	direct	-3113 Nov 01 j 02:01	22°☾23'40	
opposition	-3121 Aug 03 j 06:06	14°☾17'59	-15°-45'-54	conjunction	-3112 Feb 07 j 08:18	23°☾57'47	-16°-8'-10
direct	-3121 Oct 22 j 23:35	13°☾14'29		minimum elong	-3112 Feb 07 j 08:16	23°☾57'47	16°08'17
conjunction	-3120 Jan 29 j 03:33	14°☾51'26	-15°-8'-57	max. Earth dist.	-3112 Feb 10 j 01:15	24°☾01'50	46.57442 AU
minimum elong	-3120 Jan 29 j 03:27	14°☾51'26	15°09'03	retrograde	-3112 May 21 j 00:30	25°☾36'12	
max. Earth dist.	-3120 Feb 01 j 02:22	14°☾55'59	45.16431 AU	min. Earth dist.	-3112 Aug 10 j 06:49	24°☾35'35	44.73695 AU
retrograde	-3120 May 11 j 18:59	16°☾32'51		opposition	-3112 Aug 12 j 19:25	24°☾32'34	-16°-53'-57
min. Earth dist.	-3120 Jul 31 j 20:21	15°☾31'16	43.33229 AU	direct	-3112 Nov 01 j 11:22	23°☾30'31	
opposition	-3120 Aug 03 j 16:27	15°☾27'48	-15°-55'-12	conjunction	-3111 Feb 07 j 17:02	25°☾04'18	-16°-13'-52
direct	-3120 Oct 23 j 09:33	14°☾24'28		minimum elong	-3111 Feb 07 j 16:58	25°☾04'17	16°13'58
conjunction	-3119 Jan 29 j 13:34	16°☾01'01	-15°-17'-48	max. Earth dist.	-3111 Feb 10 j 08:09	25°☾08'13	46.73186 AU
minimum elong	-3119 Jan 29 j 13:27	16°☾01'01	15°17'55	retrograde	-3111 May 22 j 08:07	26°☾42'20	
max. Earth dist.	-3119 Feb 01 j 12:39	16°☾05'34	45.35184 AU	min. Earth dist.	-3111 Aug 11 j 15:17	25°☾41'50	44.89335 AU
retrograde	-3119 May 13 j 06:02	17°☾42'01		opposition	-3111 Aug 14 j 03:55	25°☾38'49	-16°-59'-33
min. Earth dist.	-3119 Aug 02 j 06:38	16°☾40'36	43.52000 AU	direct	-3111 Nov 02 j 20:14	24°☾36'53	
opposition	-3119 Aug 05 j 02:28	16°☾37'09	-16°-4'-1	conjunction	-3110 Feb 09 j 01:47	26°☾10'18	-16°-19'-11
direct	-3119 Oct 24 j 18:28	15°☾34'00		minimum elong	-3110 Feb 09 j 01:45	26°☾10'18	16°19'18
conjunction	-3118 Jan 30 j 23:25	17°☾10'11	-15°-26'-12	max. Earth dist.	-3110 Feb 11 j 16:26	26°☾14'11	46.88546 AU
minimum elong	-3118 Jan 30 j 23:19	17°☾10'10	15°26'18	retrograde	-3110 May 23 j 13:50	27°☾47'59	
max. Earth dist.	-3118 Feb 02 j 21:01	17°☾14'37	45.53707 AU	min. Earth dist.	-3110 Aug 13 j 01:30	26°☾47'30	45.04623 AU
retrograde	-3118 May 14 j 18:16	18°☾50'47		opposition	-3110 Aug 15 j 12:12	26°☾44'35	-17°-4'-45
min. Earth dist.	-3118 Aug 03 j 16:40	17°☾49'32	43.70538 AU	direct	-3110 Nov 04 j 07:42	25°☾42'45	
opposition	-3118 Aug 06 j 12:16	17°☾46'07	-16°-12'-23	conjunction	-3109 Feb 10 j 10:27	27°☾15'50	-16°-24'-8
direct	-3118 Oct 26 j 01:50	16°☾43'08		minimum elong	-3109 Feb 10 j 10:25	27°☾15'50	16°24'14
conjunction	-3117 Feb 01 j 09:15	18°☾18'58	-15°-34'-11	max. Earth dist.	-3109 Feb 13 j 00:36	27°☾19'40	47.03597 AU
minimum elong	-3117 Feb 01 j 09:09	18°☾18'57	15°34'18	retrograde	-3109 May 24 j 21:47	28°☾53'10	
max. Earth dist.	-3117 Feb 04 j 07:14	18°☾23'24	45.71970 AU	min. Earth dist.	-3109 Aug 14 j 09:35	27°☾52'48	45.19603 AU
retrograde	-3117 May 16 j 01:34	19°☾59'12		opposition	-3109 Aug 16 j 20:14	27°☾49'53	-17°-9'-34
min. Earth dist.	-3117 Aug 05 j 03:56	18°☾58'04	43.88773 AU	direct	-3109 Nov 05 j 17:03	26°☾48'09	
opposition	-3117 Aug 07 j 21:55	18°☾54'44	-16°-20'-19	conjunction	-3108 Feb 11 j 18:41	28°☾20'55	-16°-28'-42
direct	-3117 Oct 27 j 13:15	17°☾51'57		minimum elong	-3108 Feb 11 j 18:40	28°☾20'55	16°28'49
				max. Earth dist.	-3108 Feb 14 j 07:24	28°☾24'39	47.18358 AU

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Attention, astronomical year style is used: The year -3108 in astronomical counting style is the year 3109 BCE in historical counting style.

retrograde	-3108 May 25 j 08:48	29°☾57'55		retrograde	-3100 Jun 02 j 20:14	8°☾25'14	
min. Earth dist.	-3108 Aug 14 j 18:27	28°☾57'38	45.34318 AU	min. Earth dist.	-3100 Aug 23 j 14:49	7°☾25'34	46.39206 AU
opposition	-3108 Aug 17 j 04:16	28°☾54'46	-17°-13'-59	opposition	-3100 Aug 25 j 15:14	7°☾23'12	-17°-36'-30
direct	-3108 Nov 05 j 22:19	27°☾53'09		direct	-3100 Nov 14 j 11:56	6°☾22'32	
conjunction	-3107 Feb 12 j 03:02	29°☾25'37	-16°-32'-54	conjunction	-3099 Feb 20 j 18:00	7°☾52'59	-16°-54'-11
minimum elong	-3107 Feb 12 j 03:02	29°☾25'37	16°32'59	minimum elong	-3099 Feb 20 j 18:04	7°☾53'00	16°54'18
max. Earth dist.	-3107 Feb 14 j 16:03	29°☾29'21	47.32867 AU	max. Earth dist.	-3099 Feb 22 j 21:40	7°☾56'05	48.35700 AU
	-3107 Mar 08 j 00:41	0°☾		retrograde	-3099 Jun 04 j 01:31	9°☾27'25	
retrograde	-3107 May 26 j 16:23	1°☾02'17		min. Earth dist.	-3099 Aug 24 j 21:49	8°☾27'49	46.50202 AU
min. Earth dist.	-3107 Aug 16 j 03:19	0°☾02'04	45.48761 AU	opposition	-3099 Aug 26 j 21:53	8°☾25'28	-17°-37'-53
	-3107 Aug 17 j 21:14	30°☾☽		direct	-3099 Nov 15 j 21:07	7°☾24'53	
opposition	-3107 Aug 18 j 12:04	29°☾59'16	-17°-18'-1				
direct	-3107 Nov 07 j 06:39	28°☾57'47		conjunction	-3098 Feb 22 j 01:19	8°☾55'06	-16°-55'-28
	-3106 Jan 23 j 15:59	0°☾		minimum elong	-3098 Feb 22 j 01:21	8°☾55'06	16°55'34
conjunction	-3106 Feb 13 j 11:10	0°☾29'58	-16°-36'-43	max. Earth dist.	-3098 Feb 24 j 03:12	8°☾58'05	48.46463 AU
minimum elong	-3106 Feb 13 j 11:09	0°☾29'58	16°36'50	retrograde	-3098 Jun 05 j 10:59	10°☾29'16	
max. Earth dist.	-3106 Feb 15 j 22:31	0°☾33'35	47.47119 AU	min. Earth dist.	-3098 Aug 26 j 06:04	9°☾29'40	46.60799 AU
retrograde	-3106 May 27 j 23:47	2°☾06'18		opposition	-3098 Aug 28 j 04:35	9°☾27'24	-17°-38'-57
min. Earth dist.	-3106 Aug 17 j 11:02	1°☾06'14	45.62930 AU	direct	-3098 Nov 17 j 02:20	8°☾26'53	
opposition	-3106 Aug 19 j 19:45	1°☾03'26	-17°-21'-40	conjunction	-3097 Feb 23 j 08:40	9°☾56'53	-16°-56'-26
direct	-3106 Nov 08 j 14:12	0°☾02'05		minimum elong	-3097 Feb 23 j 08:44	9°☾56'53	16°56'32
conjunction	-3105 Feb 14 j 19:15	1°☾34'00	-16°-40'-11	max. Earth dist.	-3097 Feb 25 j 10:31	9°☾59'51	48.56854 AU
minimum elong	-3105 Feb 14 j 19:16	1°☾34'00	16°40'16	retrograde	-3097 Jun 06 j 17:44	11°☾30'47	
max. Earth dist.	-3105 Feb 17 j 06:18	1°☾37'36	47.61065 AU	min. Earth dist.	-3097 Aug 27 j 13:23	10°☾31'14	46.71028 AU
retrograde	-3105 May 29 j 05:58	3°☾10'03		opposition	-3097 Aug 29 j 10:55	10°☾29'02	-17°-39'-42
min. Earth dist.	-3105 Aug 18 j 20:27	2°☾10'03	45.76772 AU	direct	-3097 Nov 18 j 09:04	9°☾28'35	
opposition	-3105 Aug 21 j 03:15	2°☾07'21	-17°-24'-58	conjunction	-3096 Feb 24 j 15:43	10°☾58'22	-16°-57'-5
direct	-3105 Nov 09 j 23:20	1°☾06'08		minimum elong	-3096 Feb 24 j 15:46	10°☾58'22	16°57'10
conjunction	-3104 Feb 16 j 03:17	2°☾37'48	-16°-43'-17	max. Earth dist.	-3096 Feb 26 j 15:39	11°☾01'13	48.66922 AU
minimum elong	-3104 Feb 16 j 03:17	2°☾37'48	16°43'24	retrograde	-3096 Jun 07 j 01:29	12°☾32'01	
max. Earth dist.	-3104 Feb 18 j 13:26	2°☾41'19	47.74680 AU	min. Earth dist.	-3096 Aug 27 j 20:00	11°☾32'33	46.80958 AU
retrograde	-3104 May 29 j 12:50	4°☾13'34		opposition	-3096 Aug 29 j 17:16	11°☾30'22	-17°-40'-6
min. Earth dist.	-3104 Aug 19 j 04:03	3°☾13'42	45.90234 AU	direct	-3096 Nov 18 j 13:42	10°☾30'00	
opposition	-3104 Aug 21 j 10:36	3°☾11'01	-17°-27'-54	conjunction	-3095 Feb 24 j 22:37	11°☾59'36	-16°-57'-24
direct	-3104 Nov 10 j 08:01	2°☾09'56		minimum elong	-3095 Feb 24 j 22:41	11°☾59'36	16°57'30
conjunction	-3103 Feb 16 j 11:02	3°☾41'21	-16°-46'-5	max. Earth dist.	-3095 Feb 26 j 22:26	12°☾02'25	48.76690 AU
minimum elong	-3103 Feb 16 j 11:03	3°☾41'21	16°46'10	retrograde	-3095 Jun 08 j 06:10	13°☾33'00	
max. Earth dist.	-3103 Feb 18 j 19:23	3°☾44'46	47.87879 AU	min. Earth dist.	-3095 Aug 29 j 04:06	12°☾33'34	46.90585 AU
retrograde	-3103 May 30 j 22:54	5°☾16'52		opposition	-3095 Aug 30 j 23:36	12°☾31'27	-17°-40'-11
min. Earth dist.	-3103 Aug 20 j 13:07	4°☾17'04	46.03259 AU	direct	-3095 Nov 19 j 21:40	11°☾31'11	
opposition	-3103 Aug 22 j 18:02	4°☾14'28	-17°-30'-31	conjunction	-3094 Feb 26 j 05:37	13°☾00'35	-16°-57'-25
direct	-3103 Nov 11 j 13:54	3°☾13'30		minimum elong	-3094 Feb 26 j 05:41	13°☾00'35	16°57'29
conjunction	-3102 Feb 17 j 19:04	4°☾44'41	-16°-48'-33	max. Earth dist.	-3094 Feb 28 j 04:23	13°☾03'21	48.86179 AU
minimum elong	-3102 Feb 17 j 19:04	4°☾44'41	16°48'39	retrograde	-3094 Jun 09 j 10:35	14°☾33'47	
max. Earth dist.	-3102 Feb 20 j 03:07	4°☾48'04	48.00608 AU	min. Earth dist.	-3094 Aug 30 j 09:59	13°☾34'28	46.99911 AU
retrograde	-3102 Jun 01 j 07:17	6°☾19'56		opposition	-3094 Sep 01 j 05:32	13°☾32'21	-17°-39'-57
min. Earth dist.	-3102 Aug 21 j 21:52	5°☾20'10	46.15766 AU	direct	-3094 Nov 21 j 05:44	12°☾32'10	
opposition	-3102 Aug 24 j 01:08	5°☾17'40	-17°-32'-49	conjunction	-3093 Feb 27 j 12:27	14°☾01'24	-16°-57'-6
direct	-3102 Nov 12 j 20:20	4°☾16'49		minimum elong	-3093 Feb 27 j 12:32	14°☾01'24	16°57'12
conjunction	-3101 Feb 19 j 02:53	5°☾47'46	-16°-50'-44	max. Earth dist.	-3093 Mar 01 j 09:41	14°☾04'04	48.95349 AU
minimum elong	-3101 Feb 19 j 02:55	5°☾47'46	16°50'49	retrograde	-3093 Apr 13 j 08:10	15°☾	
max. Earth dist.	-3101 Feb 21 j 08:28	5°☾51'00	48.12819 AU	retrograde	-3093 Jun 10 j 18:13	15°☾34'24	
retrograde	-3101 Jun 02 j 16:05	7°☾22'44			-3093 Aug 09 j 10:04	15°☾☽	
min. Earth dist.	-3101 Aug 23 j 05:31	6°☾23'04	46.27747 AU	min. Earth dist.	-3093 Aug 31 j 17:50	14°☾35'06	47.08911 AU
opposition	-3101 Aug 25 j 08:13	6°☾20'35	-17°-34'-49	opposition	-3093 Sep 02 j 11:40	14°☾33'05	-17°-39'-23
direct	-3101 Nov 14 j 02:08	5°☾19'50		direct	-3093 Nov 22 j 12:00	13°☾33'00	
conjunction	-3100 Feb 20 j 10:27	6°☾50'33	-16°-52'-36		-3092 Feb 27 j 08:09	15°☾	
minimum elong	-3100 Feb 20 j 10:28	6°☾50'33	16°52'42	conjunction	-3092 Feb 28 j 19:13	15°☾02'04	-16°-56'-30
max. Earth dist.	-3100 Feb 22 j 15:14	6°☾53'43	48.24496 AU	minimum elong	-3092 Feb 28 j 19:19	15°☾02'04	16°56'35
				max. Earth dist.	-3092 Mar 01 j 16:27	15°☾04'43	49.04177 AU

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

retrograde	-3092 Jun 11 j 02:18	16°34'53		min. Earth dist.	-3084 Sep 09 j 06:17	23°31'59	47.69449 AU
min. Earth dist.	-3092 Sep 01 j 00:46	15°35'38	47.17522 AU	opposition	-3084 Sep 10 j 13:52	23°30'28	-17°-21'-50
opposition	-3092 Sep 02 j 17:35	15°33'40	-17°-38'-32	direct	-3084 Nov 30 j 17:03	22°30'50	
	-3092 Oct 03 j 12:41	15°R					
direct	-3092 Nov 22 j 17:00	14°33'41		conjunction	-3083 Mar 09 j 05:46	23°58'30	-16°-38'-57
	-3091 Jan 10 j 22:35	15°		minimum elong	-3083 Mar 09 j 05:53	23°58'31	16°39'01
				max. Earth dist.	-3083 Mar 10 j 14:39	24°00'24	49.63106 AU
conjunction	-3091 Mar 01 j 01:59	16°02'35	-16°-55'-37	retrograde	-3083 Jun 20 j 05:52	25°29'36	
minimum elong	-3091 Mar 01 j 02:03	16°02'36	16°55'43	opposition	-3083 Sep 11 j 19:03	24°29'00	-17°-18'-29
max. Earth dist.	-3091 Mar 02 j 20:51	16°05'06	49.12600 AU	min. Earth dist.	-3083 Sep 10 j 13:10	24°30'26	47.74235 AU
retrograde	-3091 Jun 12 j 12:02	17°35'12		direct	-3083 Dec 01 j 23:17	23°29'26	
min. Earth dist.	-3091 Sep 02 j 07:26	16°36'02	47.25703 AU				
opposition	-3091 Sep 03 j 23:25	16°34'07	-17°-37'-23	conjunction	-3082 Mar 10 j 12:00	24°56'59	-16°-35'-37
direct	-3091 Nov 23 j 19:49	15°34'12		minimum elong	-3082 Mar 10 j 12:08	24°56'59	16°35'42
				max. Earth dist.	-3082 Mar 11 j 20:53	24°58'53	49.67808 AU
conjunction	-3090 Mar 02 j 08:51	17°02'57	-16°-54'-27	retrograde	-3082 Jun 21 j 12:06	26°27'56	
minimum elong	-3090 Mar 02 j 08:58	17°02'58	16°54'32	min. Earth dist.	-3082 Sep 11 j 18:50	25°28'50	47.78722 AU
max. Earth dist.	-3090 Mar 04 j 02:59	17°05'25	49.20546 AU	opposition	-3082 Sep 13 j 00:06	25°27'26	-17°-14'-49
retrograde	-3090 Jun 13 j 16:35	18°35'23		direct	-3082 Dec 03 j 04:39	24°27'55	
min. Earth dist.	-3090 Sep 03 j 15:39	17°36'11	47.33370 AU				
opposition	-3090 Sep 05 j 05:18	17°34'23	-17°-35'-58	conjunction	-3081 Mar 11 j 18:00	25°55'23	-16°-32'00
direct	-3090 Nov 25 j 03:03	16°34'32		minimum elong	-3081 Mar 11 j 18:08	25°55'24	16°32'04
				max. Earth dist.	-3081 Mar 13 j 00:45	25°57'10	49.72212 AU
conjunction	-3089 Mar 03 j 15:40	18°03'08	-16°-53'-2	retrograde	-3081 Jun 22 j 21:16	27°26'13	
minimum elong	-3089 Mar 03 j 15:45	18°03'08	16°53'07	min. Earth dist.	-3081 Sep 13 j 00:27	26°27'11	47.82904 AU
max. Earth dist.	-3089 Mar 05 j 08:07	18°05'30	49.27980 AU	opposition	-3081 Sep 14 j 05:03	26°25'49	-17°-10'-53
retrograde	-3089 Jun 14 j 19:37	19°35'20		direct	-3081 Dec 04 j 06:12	25°26'22	
min. Earth dist.	-3089 Sep 04 j 21:45	18°36'12	47.40504 AU				
opposition	-3089 Sep 06 j 10:53	18°34'25	-17°-34'-18	conjunction	-3080 Mar 12 j 00:04	26°53'47	-16°-28'-7
direct	-3089 Nov 26 j 11:53	17°34'38		minimum elong	-3080 Mar 12 j 00:12	26°53'47	16°28'12
				max. Earth dist.	-3080 Mar 13 j 06:30	26°55'31	49.76284 AU
conjunction	-3088 Mar 03 j 22:14	19°03'03	-16°-51'-21	retrograde	-3080 Jun 23 j 02:47	28°24'30	
minimum elong	-3088 Mar 03 j 22:21	19°03'03	16°51'27	min. Earth dist.	-3080 Sep 13 j 07:27	27°25'28	47.86720 AU
max. Earth dist.	-3088 Mar 05 j 12:41	19°05'18	49.34880 AU	opposition	-3080 Sep 14 j 10:03	27°24'11	-17°-6'-40
retrograde	-3088 Jun 15 j 01:55	20°35'04		direct	-3080 Dec 04 j 10:59	26°24'49	
min. Earth dist.	-3088 Sep 05 j 05:28	19°35'53	47.47126 AU				
opposition	-3088 Sep 06 j 16:37	19°34'12	-17°-32'-21	conjunction	-3079 Mar 13 j 06:05	27°52'10	-16°-23'-58
direct	-3088 Nov 26 j 18:30	18°34'27		minimum elong	-3079 Mar 13 j 06:14	27°52'10	16°24'02
				max. Earth dist.	-3079 Mar 14 j 11:05	27°53'50	49.79976 AU
conjunction	-3087 Mar 05 j 04:45	20°02'41	-16°-49'-25	retrograde	-3079 Jun 24 j 05:46	29°22'48	
minimum elong	-3087 Mar 05 j 04:50	20°02'42	16°49'30	opposition	-3079 Sep 15 j 14:56	28°22'34	-17°-2'-12
max. Earth dist.	-3087 Mar 06 j 18:46	20°04'54	49.41297 AU	min. Earth dist.	-3079 Sep 14 j 12:42	28°23'49	47.90108 AU
retrograde	-3087 Jun 16 j 07:32	21°34'30		direct	-3079 Dec 05 j 18:30	27°23'16	
min. Earth dist.	-3087 Sep 06 j 12:00	20°35'19	47.53267 AU				
opposition	-3087 Sep 07 j 22:05	20°33'41	-17°-30'-9	conjunction	-3078 Mar 14 j 12:14	28°50'33	-16°-19'-34
direct	-3087 Nov 28 j 00:58	19°33'57		minimum elong	-3078 Mar 14 j 12:22	28°50'34	16°19'39
				max. Earth dist.	-3078 Mar 15 j 15:09	28°52'06	49.83193 AU
conjunction	-3086 Mar 06 j 11:09	21°02'02	-16°-47'-13	retrograde	-3078 May 10 j 21:57	0°	
minimum elong	-3086 Mar 06 j 11:17	21°02'02	16°47'19		-3078 Jun 25 j 10:54	0°	21'06
max. Earth dist.	-3086 Mar 07 j 22:59	21°04'06	49.47272 AU		-3078 Aug 10 j 12:54	30°R	
retrograde	-3086 Jun 17 j 15:42	22°33'38		opposition	-3078 Sep 16 j 19:49	29°20'57	-16°-57'-28
min. Earth dist.	-3086 Sep 07 j 18:07	21°34'27	47.59007 AU	min. Earth dist.	-3078 Sep 15 j 19:54	29°22'05	47.93002 AU
opposition	-3086 Sep 09 j 03:21	21°32'52	-17°-27'-40	direct	-3078 Dec 07 j 00:56	28°21'42	
direct	-3086 Nov 29 j 04:18	20°33'10					
				conjunction	-3077 Mar 15 j 18:28	29°48'55	-16°-14'-57
conjunction	-3085 Mar 07 j 17:33	22°01'05	-16°-44'-45	minimum elong	-3077 Mar 15 j 18:38	29°48'56	16°15'00
minimum elong	-3085 Mar 07 j 17:39	22°01'06	16°44'49	max. Earth dist.	-3077 Mar 16 j 20:43	29°50'26	49.85901 AU
max. Earth dist.	-3085 Mar 09 j 04:59	22°03'08	49.52862 AU		-3077 Mar 23 j 20:04	0°	
retrograde	-3085 Jun 18 j 20:40	23°32'30		retrograde	-3077 Jun 26 j 16:25	1°	19'22
min. Earth dist.	-3085 Sep 09 j 01:15	22°33'17	47.64383 AU	min. Earth dist.	-3077 Sep 17 j 01:50	0°	20'22 47.95352 AU
opposition	-3085 Sep 10 j 08:42	22°31'47	-17°-24'-54	opposition	-3077 Sep 18 j 00:41	0°	19'17 -16°-52'-31
direct	-3085 Nov 30 j 10:25	21°32'07			-3077 Oct 05 j 04:29	30°R	
				direct	-3077 Dec 08 j 06:34	29°20'03	
conjunction	-3084 Mar 07 j 23:39	22°59'54	-16°-42'00		-3076 Feb 08 j 18:25	0°	
minimum elong	-3084 Mar 07 j 23:47	22°59'54	16°42'05				
max. Earth dist.	-3084 Mar 09 j 09:57	23°01'53	49.58133 AU	conjunction	-3076 Mar 16 j 00:20	0°	47'12 -16°-10'-5
retrograde	-3084 Jun 19 j 00:21	24°31'08		minimum elong	-3076 Mar 16 j 00:28	0°	47'13 16°10'09

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Attention, astronomical year style is used: The year -3076 in astronomical counting style is the year 3077 BCE in historical counting style.

max. Earth dist.	-3076 Mar 17 j 00:00	0° ✕ 48'34	49.88074 AU	min. Earth dist.	-3068 Sep 25 j 06:01	8° ✕ 59'00	47.97700 AU
retrograde	-3076 Jun 27 j 00:49	2° ✕ 17'32		direct	-3068 Dec 16 j 02:21	7° ✕ 59'15	
min. Earth dist.	-3076 Sep 17 j 07:57	1° ✕ 18'31	47.97182 AU				
opposition	-3076 Sep 18 j 05:34	1° ✕ 17'30	-16°-47'-20	conjunction	-3067 Mar 25 j 04:59	9° ✕ 26'02	-15°-15'-8
direct	-3076 Dec 08 j 09:08	0° ✕ 18'17		minimum elong	-3067 Mar 25 j 05:09	9° ✕ 26'03	15°15'12
				max. Earth dist.	-3067 Mar 25 j 18:41	9° ✕ 26'49	49.89644 AU
conjunction	-3075 Mar 17 j 06:24	1° ✕ 45'22	-16°-5'00	retrograde	-3067 Jul 05 j 20:49	10° ✕ 55'38	
minimum elong	-3075 Mar 17 j 06:35	1° ✕ 45'22	16°05'04	opposition	-3067 Sep 26 j 22:35	9° ✕ 55'53	-15°-49'00
max. Earth dist.	-3075 Mar 18 j 05:22	1° ✕ 46'40	49.89733 AU	min. Earth dist.	-3067 Sep 26 j 11:22	9° ✕ 56'25	47.96144 AU
retrograde	-3075 Jun 28 j 06:23	3° ✕ 15'34		direct	-3067 Dec 17 j 08:25	8° ✕ 56'44	
opposition	-3075 Sep 19 j 10:18	2° ✕ 15'33	-16°-41'-54				
min. Earth dist.	-3075 Sep 18 j 14:44	2° ✕ 16'29	47.98514 AU	conjunction	-3066 Mar 26 j 10:53	10° ✕ 23'31	-15°-7'-46
direct	-3075 Dec 09 j 13:49	1° ✕ 16'21		minimum elong	-3066 Mar 26 j 11:05	10° ✕ 23'32	15°07'49
				max. Earth dist.	-3066 Mar 26 j 21:59	10° ✕ 24'09	49.87965 AU
conjunction	-3074 Mar 18 j 12:25	2° ✕ 43'21	-15°-59'-40	retrograde	-3066 Jul 07 j 04:43	11° ✕ 53'06	
minimum elong	-3074 Mar 18 j 12:34	2° ✕ 43'22	15°59'44	opposition	-3066 Sep 28 j 03:09	10° ✕ 53'23	-15°-41'-14
max. Earth dist.	-3074 Mar 19 j 09:44	2° ✕ 44'34	49.90941 AU	min. Earth dist.	-3066 Sep 27 j 17:22	10° ✕ 53'51	47.94091 AU
retrograde	-3074 Jun 29 j 10:23	4° ✕ 13'26		direct	-3066 Dec 18 j 11:06	9° ✕ 54'14	
opposition	-3074 Sep 20 j 14:54	3° ✕ 13'27	-16°-36'-13				
min. Earth dist.	-3074 Sep 19 j 19:36	3° ✕ 14'22	47.99412 AU	conjunction	-3065 Mar 27 j 16:51	11° ✕ 21'03	-15°00'-11
direct	-3074 Dec 10 j 19:33	2° ✕ 14'14		minimum elong	-3065 Mar 27 j 17:02	11° ✕ 21'04	15°00'14
				max. Earth dist.	-3065 Mar 28 j 02:57	11° ✕ 21'37	49.85748 AU
conjunction	-3073 Mar 19 j 18:13	3° ✕ 41'10	-15°-54'-5	retrograde	-3065 Jul 08 j 10:49	12° ✕ 50'36	
minimum elong	-3073 Mar 19 j 18:24	3° ✕ 41'11	15°54'09	opposition	-3065 Sep 29 j 07:41	11° ✕ 50'54	-15°-33'-15
max. Earth dist.	-3073 Mar 20 j 13:55	3° ✕ 42'18	49.91727 AU	min. Earth dist.	-3065 Sep 29 j 00:01	11° ✕ 51'16	47.91477 AU
retrograde	-3073 Jun 30 j 13:54	5° ✕ 11'09		direct	-3065 Dec 19 j 15:11	10° ✕ 51'45	
opposition	-3073 Sep 21 j 19:32	4° ✕ 11'10	-16°-30'-17				
min. Earth dist.	-3073 Sep 21 j 02:16	4° ✕ 12'00	47.99929 AU	conjunction	-3064 Mar 27 j 22:46	12° ✕ 18'35	-14°-52'-23
direct	-3073 Dec 12 j 02:22	3° ✕ 11'57		minimum elong	-3064 Mar 27 j 22:58	12° ✕ 18'36	14°52'26
				max. Earth dist.	-3064 Mar 28 j 06:59	12° ✕ 19'03	49.82996 AU
conjunction	-3072 Mar 20 j 00:07	4° ✕ 38'49	-15°-48'-15	retrograde	-3064 Jul 08 j 15:52	13° ✕ 48'05	
minimum elong	-3072 Mar 20 j 00:17	4° ✕ 38'50	15°48'18	opposition	-3064 Sep 29 j 12:07	12° ✕ 48'24	-15°-25'-2
max. Earth dist.	-3072 Mar 20 j 19:37	4° ✕ 39'56	49.92172 AU	min. Earth dist.	-3064 Sep 29 j 04:59	12° ✕ 48'44	47.88326 AU
retrograde	-3072 Jun 30 j 17:46	6° ✕ 08'42		direct	-3064 Dec 19 j 20:11	11° ✕ 49'13	
min. Earth dist.	-3072 Sep 21 j 07:15	5° ✕ 09'33	48.00110 AU				
opposition	-3072 Sep 22 j 00:03	5° ✕ 08'45	-16°-24'-4	conjunction	-3063 Mar 29 j 04:35	13° ✕ 16'04	-14°-44'-22
direct	-3072 Dec 12 j 09:07	4° ✕ 09'32		minimum elong	-3063 Mar 29 j 04:46	13° ✕ 16'05	14°44'24
				max. Earth dist.	-3063 Mar 29 j 10:46	13° ✕ 16'25	49.79706 AU
conjunction	-3071 Mar 21 j 05:45	5° ✕ 36'21	-15°-42'-9	retrograde	-3063 Jul 09 j 19:48	14° ✕ 45'33	
minimum elong	-3071 Mar 21 j 05:56	5° ✕ 36'22	15°42'12	opposition	-3063 Sep 30 j 16:40	13° ✕ 45'51	-15°-16'-36
max. Earth dist.	-3071 Mar 21 j 23:07	5° ✕ 37'20	49.92305 AU	min. Earth dist.	-3063 Sep 30 j 11:55	13° ✕ 46'05	47.84664 AU
retrograde	-3071 Jul 02 j 02:29	7° ✕ 06'09		direct	-3063 Dec 21 j 02:24	12° ✕ 46'39	
opposition	-3071 Sep 23 j 04:38	6° ✕ 06'13	-16°-17'-35				
min. Earth dist.	-3071 Sep 22 j 12:38	6° ✕ 06'59	47.99992 AU	conjunction	-3062 Mar 30 j 10:35	14° ✕ 13'30	-14°-36'-6
direct	-3071 Dec 13 j 10:48	5° ✕ 07'00		minimum elong	-3062 Mar 30 j 10:48	14° ✕ 13'31	14°36'09
				max. Earth dist.	-3062 Mar 30 j 16:12	14° ✕ 13'49	49.75938 AU
conjunction	-3070 Mar 22 j 11:39	6° ✕ 33'48	-15°-35'-47	retrograde	-3062 Jul 10 j 22:58	15° ✕ 42'58	
minimum elong	-3070 Mar 22 j 11:49	6° ✕ 33'48	15°35'49	opposition	-3062 Oct 01 j 20:55	14° ✕ 43'15	-15°-7'-55
max. Earth dist.	-3070 Mar 23 j 04:43	6° ✕ 34'46	49.92133 AU	min. Earth dist.	-3062 Oct 01 j 16:53	14° ✕ 43'27	47.80539 AU
retrograde	-3070 Jul 03 j 08:54	8° ✕ 03'31		direct	-3062 Dec 22 j 09:22	13° ✕ 44'00	
opposition	-3070 Sep 24 j 09:07	7° ✕ 03'37	-16°-10'-50				
min. Earth dist.	-3070 Sep 23 j 18:48	7° ✕ 04'18	47.99561 AU	conjunction	-3061 Mar 31 j 16:23	15° ✕ 10'53	-14°-27'-37
direct	-3070 Dec 14 j 14:21	6° ✕ 04'25		minimum elong	-3061 Mar 31 j 16:34	15° ✕ 10'53	14°27'39
				max. Earth dist.	-3061 Mar 31 j 19:35	15° ✕ 11'04	49.71746 AU
conjunction	-3069 Mar 23 j 17:26	7° ✕ 31'11	-15°-29'-9	retrograde	-3061 Jul 12 j 07:09	16° ✕ 40'20	
minimum elong	-3069 Mar 23 j 17:37	7° ✕ 31'12	15°29'13	opposition	-3061 Oct 03 j 01:20	15° ✕ 40'36	-14°-58'-59
max. Earth dist.	-3069 Mar 24 j 09:13	7° ✕ 32'05	49.91666 AU	min. Earth dist.	-3061 Oct 02 j 22:24	15° ✕ 40'45	47.76032 AU
retrograde	-3069 Jul 04 j 12:37	9° ✕ 00'51		direct	-3061 Dec 23 j 11:23	14° ✕ 41'19	
opposition	-3069 Sep 25 j 13:35	8° ✕ 01'00	-16°-3'-48				
min. Earth dist.	-3069 Sep 24 j 23:24	8° ✕ 01'41	47.98815 AU	conjunction	-3060 Mar 31 j 22:05	16° ✕ 08'14	-14°-18'-52
direct	-3069 Dec 15 j 20:02	7° ✕ 01'49		minimum elong	-3060 Mar 31 j 22:18	16° ✕ 08'14	14°18'55
				max. Earth dist.	-3060 Apr 01 j 01:02	16° ✕ 08'24	49.67186 AU
conjunction	-3068 Mar 23 j 23:01	8° ✕ 28'35	-15°-22'-16	retrograde	-3060 Jul 12 j 14:06	17° ✕ 37'40	
minimum elong	-3068 Mar 23 j 23:13	8° ✕ 28'36	15°22'19	opposition	-3060 Oct 03 j 05:48	16° ✕ 37'56	-14°-49'-48
max. Earth dist.	-3068 Mar 24 j 13:10	8° ✕ 29'24	49.90850 AU	min. Earth dist.	-3060 Oct 03 j 04:29	16° ✕ 38'00	47.71176 AU
retrograde	-3068 Jul 04 j 16:26	9° ✕ 58'13		direct	-3060 Dec 23 j 14:20	15° ✕ 38'36	
opposition	-3068 Sep 25 j 18:12	8° ✕ 58'25	-15°-56'-31				

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Attention, astronomical year style is used: The year -3059 in astronomical counting style is the year 3060 BCE in historical counting style.

conjunction	-3059 Apr 02 j 03:55	17° ✠ 05'34	-14°-9'-52	retrograde	-3051 Jul 21 j 12:20	26° ✠ 17'36	
minimum elong	-3059 Apr 02 j 04:07	17° ✠ 05'35	14°09'54	opposition	-3051 Oct 11 j 22:09	25° ✠ 17'45	-13°-15'-26
max. Earth dist.	-3059 Apr 02 j 05:31	17° ✠ 05'40	49.62320 AU	min. Earth dist.	-3051 Oct 12 j 07:30	25° ✠ 17'18	47.11445 AU
retrograde	-3059 Jul 13 j 18:26	18° ✠ 35'00		direct	-3050 Jan 01 j 12:39	24° ✠ 18'03	
opposition	-3059 Oct 04 j 10:02	17° ✠ 35'16	-14°-40'-20				
min. Earth dist.	-3059 Oct 04 j 08:46	17° ✠ 35'20	47.66024 AU	conjunction	-3050 Apr 11 j 10:30	25° ✠ 45'52	-12°-37'-44
direct	-3059 Dec 24 j 19:17	16° ✠ 35'54		minimum elong	-3050 Apr 11 j 10:42	25° ✠ 45'53	12°37'46
				max. Earth dist.	-3050 Apr 10 j 23:38	25° ✠ 45'15	49.02026 AU
conjunction	-3058 Apr 03 j 09:47	18° ✠ 02'56	-14°00'-37	retrograde	-3050 Jul 22 j 19:17	27° ✠ 15'46	
minimum elong	-3058 Apr 03 j 09:59	18° ✠ 02'57	14°00'40	opposition	-3050 Oct 13 j 02:51	26° ✠ 15'52	-13°-3'-44
max. Earth dist.	-3058 Apr 03 j 09:46	18° ✠ 02'56	49.57155 AU	min. Earth dist.	-3050 Oct 13 j 13:58	26° ✠ 15'20	47.02519 AU
retrograde	-3058 Jul 14 j 21:31	19° ✠ 32'24		direct	-3049 Jan 02 j 16:24	25° ✠ 16'04	
opposition	-3058 Oct 05 j 14:34	18° ✠ 32'40	-14°-30'-36				
min. Earth dist.	-3058 Oct 05 j 15:08	18° ✠ 32'38	47.60584 AU	conjunction	-3049 Apr 12 j 16:38	26° ✠ 44'00	-12°-26'-19
direct	-3058 Dec 26 j 02:18	17° ✠ 33'16		minimum elong	-3049 Apr 12 j 16:51	26° ✠ 44'01	12°26'21
				max. Earth dist.	-3049 Apr 12 j 04:13	26° ✠ 43'17	48.93059 AU
conjunction	-3057 Apr 04 j 15:39	19° ✠ 00'23	-13°-51'-6	retrograde	-3049 Jul 24 j 01:44	28° ✠ 13'58	
minimum elong	-3057 Apr 04 j 15:52	19° ✠ 00'24	13°51'08	opposition	-3049 Oct 14 j 07:25	27° ✠ 14'00	-12°-51'-47
max. Earth dist.	-3057 Apr 04 j 15:33	19° ✠ 00'23	49.51709 AU	min. Earth dist.	-3049 Oct 14 j 18:46	27° ✠ 13'27	46.93213 AU
retrograde	-3057 Jul 16 j 00:50	20° ✠ 29'54		direct	-3048 Jan 03 j 20:15	26° ✠ 14'06	
opposition	-3057 Oct 06 j 18:55	19° ✠ 30'10	-14°-20'-37				
min. Earth dist.	-3057 Oct 06 j 19:53	19° ✠ 30'07	47.54839 AU	conjunction	-3048 Apr 12 j 22:50	27° ✠ 42'09	-12°-14'-39
direct	-3057 Dec 27 j 09:12	18° ✠ 30'45		minimum elong	-3048 Apr 12 j 23:02	27° ✠ 42'10	12°14'40
				max. Earth dist.	-3048 Apr 12 j 08:46	27° ✠ 41'21	48.83728 AU
conjunction	-3056 Apr 04 j 21:28	19° ✠ 57'57	-13°-41'-20	retrograde	-3048 Jul 24 j 05:53	29° ✠ 12'11	
minimum elong	-3056 Apr 04 j 21:40	19° ✠ 57'58	13°41'23	opposition	-3048 Oct 14 j 12:08	28° ✠ 12'09	-12°-39'-34
max. Earth dist.	-3056 Apr 04 j 19:08	19° ✠ 57'49	49.45956 AU	min. Earth dist.	-3048 Oct 15 j 01:25	28° ✠ 11'31	46.83579 AU
retrograde	-3056 Jul 16 j 08:26	21° ✠ 27'31		direct	-3047 Jan 04 j 02:52	27° ✠ 12'10	
opposition	-3056 Oct 06 j 23:20	20° ✠ 27'48	-14°-10'-21				
min. Earth dist.	-3056 Oct 07 j 01:32	20° ✠ 27'42	47.48776 AU	conjunction	-3047 Apr 14 j 05:11	28° ✠ 40'22	-12°-2'-44
direct	-3056 Dec 27 j 11:47	19° ✠ 28'23		minimum elong	-3047 Apr 14 j 05:24	28° ✠ 40'23	12°02'45
				max. Earth dist.	-3047 Apr 13 j 14:59	28° ✠ 39'33	48.74097 AU
conjunction	-3055 Apr 06 j 03:29	20° ✠ 55'41	-13°-31'-19		-3047 Jun 23 j 22:12	0° ☿	
minimum elong	-3055 Apr 06 j 03:42	20° ✠ 55'41	13°31'20	retrograde	-3047 Jul 25 j 08:52	0° ☿ 10'30	
max. Earth dist.	-3055 Apr 06 j 00:36	20° ✠ 55'31	49.39838 AU		-3047 Aug 26 j 01:15	30° ♁	
retrograde	-3055 Jul 17 j 15:36	22° ✠ 25'19		opposition	-3047 Oct 15 j 16:50	29° ✠ 10'25	-12°-27'-4
opposition	-3055 Oct 08 j 03:52	21° ✠ 25'35	-13°-59'-51	min. Earth dist.	-3047 Oct 16 j 06:25	29° ✠ 09'46	46.73645 AU
min. Earth dist.	-3055 Oct 08 j 07:51	21° ✠ 25'24	47.42300 AU	direct	-3046 Jan 05 j 10:36	28° ✠ 10'21	
direct	-3055 Dec 28 j 15:04	20° ✠ 26'09					
				conjunction	-3046 Apr 15 j 11:31	29° ✠ 38'42	-11°-50'-32
conjunction	-3054 Apr 07 j 09:38	21° ✠ 53'33	-13°-21'-3	minimum elong	-3046 Apr 15 j 11:43	29° ✠ 38'43	11°50'33
minimum elong	-3054 Apr 07 j 09:50	21° ✠ 53'34	13°21'05	max. Earth dist.	-3046 Apr 14 j 19:06	29° ✠ 37'46	48.64183 AU
max. Earth dist.	-3054 Apr 07 j 04:57	21° ✠ 53'18	49.33289 AU		-3046 May 01 j 02:18	0° ☿	
retrograde	-3054 Jul 18 j 22:36	23° ✠ 23'14		retrograde	-3046 Jul 26 j 15:59	1° ☿ 08'58	
opposition	-3054 Oct 09 j 08:15	22° ✠ 23'31	-13°-49'-6	opposition	-3046 Oct 16 j 21:35	0° ☿ 08'50	-12°-14'-18
min. Earth dist.	-3054 Oct 09 j 12:53	22° ✠ 23'18	47.35359 AU	min. Earth dist.	-3046 Oct 17 j 12:16	0° ☿ 08'08	46.63448 AU
direct	-3054 Dec 29 j 18:51	21° ✠ 24'01			-3046 Oct 24 j 13:18	30° ♁	
				direct	-3045 Jan 06 j 14:10	29° ✠ 08'42	
conjunction	-3053 Apr 08 j 15:48	22° ✠ 51'34	-13°-10'-34		-3045 Mar 19 j 20:56	0° ☿	
minimum elong	-3053 Apr 08 j 16:01	22° ✠ 51'35	13°10'35				
max. Earth dist.	-3053 Apr 08 j 09:03	22° ✠ 51'11	49.26233 AU	conjunction	-3045 Apr 16 j 18:02	0° ☿ 37'14	-11°-38'-5
retrograde	-3053 Jul 20 j 03:21	24° ✠ 21'18		minimum elong	-3045 Apr 16 j 18:14	0° ☿ 37'15	11°38'07
opposition	-3053 Oct 10 j 12:58	23° ✠ 21'33	-13°-38'-7	max. Earth dist.	-3045 Apr 16 j 01:20	0° ☿ 36'17	48.53998 AU
min. Earth dist.	-3053 Oct 10 j 20:01	23° ✠ 21'13	47.27902 AU	retrograde	-3045 Jul 27 j 22:51	2° ☿ 07'38	
direct	-3053 Dec 31 j 00:30	22° ✠ 22'00		opposition	-3045 Oct 18 j 02:31	1° ☿ 07'29	-12°-1'-15
				min. Earth dist.	-3045 Oct 18 j 18:30	1° ☿ 06'42	46.52967 AU
conjunction	-3052 Apr 08 j 21:56	23° ✠ 49'38	-12°-59'-51	direct	-3044 Jan 07 j 18:20	0° ☿ 07'17	
minimum elong	-3052 Apr 08 j 22:08	23° ✠ 49'39	12°59'53	max. Earth dist.	-3044 Apr 16 j 06:24	1° ☿ 34'59	48.43537 AU
max. Earth dist.	-3052 Apr 08 j 14:24	23° ✠ 49'13	49.18665 AU				
retrograde	-3052 Jul 20 j 05:40	25° ✠ 19'26		conjunction	-3044 Apr 17 j 00:24	1° ☿ 36'01	-11°-25'-22
opposition	-3052 Oct 10 j 17:36	24° ✠ 19'39	-13°-26'-54	minimum elong	-3044 Apr 17 j 00:37	1° ☿ 36'02	11°25'23
min. Earth dist.	-3052 Oct 11 j 01:23	24° ✠ 19'16	47.19916 AU	retrograde	-3044 Jul 28 j 06:54	3° ☿ 06'35	
direct	-3052 Dec 31 j 08:28	23° ✠ 20'01		opposition	-3044 Oct 18 j 07:26	2° ☿ 06'24	-11°-47'-56
				min. Earth dist.	-3044 Oct 18 j 23:44	2° ☿ 05'37	46.42182 AU
conjunction	-3051 Apr 10 j 04:07	24° ✠ 47'45	-12°-48'-55	direct	-3043 Jan 07 j 21:55	1° ☿ 06'09	
minimum elong	-3051 Apr 10 j 04:21	24° ✠ 47'46	12°48'56	max. Earth dist.	-3043 Apr 17 j 11:22	2° ☿ 33'59	48.32721 AU
max. Earth dist.	-3051 Apr 09 j 17:57	24° ✠ 47'10	49.10583 AU				

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Attention, astronomical year style is used: The year -3043 in astronomical counting style is the year 3044 BCE in historical counting style.

conjunction	-3043 Apr 18 j 07:08	2°V35'07	-11°-12'-24	opposition	-3035 Oct 27 j 07:55	11°V08'41	-9°-36'-26
minimum elong	-3043 Apr 18 j 07:20	2°V35'08	11°12'25	min. Earth dist.	-3035 Oct 28 j 12:40	11°V07'16	45.24863 AU
retrograde	-3043 Jul 29 j 13:22	4°V05'51		direct	-3034 Jan 17 j 04:14	10°V07'24	
opposition	-3043 Oct 19 j 12:27	3°V05'39	-11°-34'-21	max. Earth dist.	-3034 Apr 26 j 15:32	11°V36'38	47.14893 AU
min. Earth dist.	-3043 Oct 20 j 07:06	3°V04'45	46.31017 AU				
direct	-3042 Jan 09 j 03:16	2°V05'20		conjunction	-3034 Apr 28 j 00:04	11°V38'33	-9°-4'-30
				minimum elong	-3034 Apr 28 j 00:15	11°V38'33	9°04'30
conjunction	-3042 Apr 19 j 14:07	3°V34'33	-10°-59'-10	retrograde	-3034 Aug 08 j 00:30	13°V11'00	
minimum elong	-3042 Apr 19 j 14:19	3°V34'34	10°59'11	opposition	-3034 Oct 28 j 13:46	12°V10'00	-9°-20'-27
max. Earth dist.	-3042 Apr 18 j 17:40	3°V33'22	48.21495 AU	min. Earth dist.	-3034 Oct 29 j 18:48	12°V08'34	45.09949 AU
retrograde	-3042 Jul 30 j 17:07	5°V05'28		direct	-3033 Jan 18 j 07:44	11°V08'34	
opposition	-3042 Oct 20 j 17:35	4°V05'13	-11°-20'-30	max. Earth dist.	-3033 Apr 27 j 21:44	12°V38'01	46.99984 AU
min. Earth dist.	-3042 Oct 21 j 12:51	4°V04'17	46.19394 AU				
direct	-3041 Jan 10 j 11:08	3°V04'51		conjunction	-3033 Apr 29 j 07:37	12°V40'01	-8°-48'-59
				minimum elong	-3033 Apr 29 j 07:48	12°V40'02	8°48'58
conjunction	-3041 Apr 20 j 20:55	4°V34'17	-10°-45'-42	retrograde	-3033 Aug 09 j 09:41	14°V12'43	
minimum elong	-3041 Apr 20 j 21:06	4°V34'18	10°45'43	opposition	-3033 Oct 29 j 19:51	13°V11'36	-9°-4'-12
max. Earth dist.	-3041 Apr 19 j 21:47	4°V32'57	48.09780 AU	min. Earth dist.	-3033 Oct 31 j 02:43	13°V10'05	44.94766 AU
retrograde	-3041 Jul 31 j 23:55	6°V05'24		direct	-3032 Jan 19 j 12:36	12°V10'03	
opposition	-3041 Oct 21 j 22:52	5°V05'06	-11°-6'-25	max. Earth dist.	-3032 Apr 28 j 05:15	13°V39'48	46.84816 AU
min. Earth dist.	-3041 Oct 22 j 19:54	5°V04'05	46.07273 AU				
direct	-3040 Jan 11 j 16:09	4°V04'38		conjunction	-3032 Apr 29 j 15:27	13°V41'49	-8°-33'-11
max. Earth dist.	-3040 Apr 20 j 04:06	5°V32'55	47.97546 AU	minimum elong	-3032 Apr 29 j 15:38	13°V41'50	8°33'12
				retrograde	-3032 Aug 09 j 15:02	15°V14'46	
conjunction	-3040 Apr 21 j 04:04	5°V34'18	-10°-32'00	opposition	-3032 Oct 30 j 01:50	14°V13'34	-8°-47'-38
minimum elong	-3040 Apr 21 j 04:17	5°V34'19	10°32'00	min. Earth dist.	-3032 Oct 31 j 08:54	14°V12'02	44.79294 AU
retrograde	-3040 Aug 01 j 07:46	7°V05'36		direct	-3031 Jan 19 j 20:58	13°V11'53	
opposition	-3040 Oct 22 j 04:13	6°V05'14	-10°-52'-5	max. Earth dist.	-3031 Apr 29 j 10:53	14°V41'50	46.69325 AU
min. Earth dist.	-3040 Oct 23 j 03:03	6°V04'07	45.94623 AU				
direct	-3039 Jan 11 j 20:10	5°V04'39		conjunction	-3031 Apr 30 j 23:25	14°V44'00	-8°-17'-7
max. Earth dist.	-3039 Apr 21 j 09:10	6°V33'03	47.84809 AU	minimum elong	-3031 Apr 30 j 23:36	14°V44'01	8°17'06
				retrograde	-3031 Aug 10 j 21:38	16°V17'15	
conjunction	-3039 Apr 22 j 11:11	6°V34'33	-10°-18'-3	opposition	-3031 Oct 31 j 08:06	15°V15'57	-8°-30'-48
minimum elong	-3039 Apr 22 j 11:23	6°V34'34	10°18'04	min. Earth dist.	-3031 Nov 01 j 16:57	15°V14'19	44.63478 AU
retrograde	-3039 Aug 02 j 16:53	8°V06'01		direct	-3030 Jan 21 j 03:57	14°V14'08	
opposition	-3039 Oct 23 j 09:34	7°V05'34	-10°-37'-29	max. Earth dist.	-3030 Apr 30 j 18:40	15°V44'24	46.53439 AU
min. Earth dist.	-3039 Oct 24 j 09:02	7°V04'26	45.81477 AU				
direct	-3038 Jan 12 j 23:15	6°V04'51		conjunction	-3030 May 02 j 07:44	15°V46'36	-8°00'-46
				minimum elong	-3030 May 02 j 07:55	15°V46'37	8°00'46
conjunction	-3038 Apr 23 j 18:27	7°V35'00	-10°-3'-52	retrograde	-3030 Aug 12 j 04:32	17°V20'09	
minimum elong	-3038 Apr 23 j 18:40	7°V35'01	10°03'52	opposition	-3030 Nov 01 j 14:30	16°V18'45	-8°-13'-41
max. Earth dist.	-3038 Apr 22 j 14:30	7°V33'22	47.71573 AU	min. Earth dist.	-3030 Nov 03 j 00:50	16°V17'03	44.47232 AU
retrograde	-3038 Aug 03 j 22:31	9°V06'38		direct	-3029 Jan 22 j 10:52	15°V16'47	
opposition	-3038 Oct 24 j 15:03	8°V06'05	-10°-22'-38	max. Earth dist.	-3029 May 02 j 00:54	16°V47'17	46.37113 AU
min. Earth dist.	-3038 Oct 25 j 16:49	8°V04'49	45.67869 AU				
direct	-3037 Jan 14 j 06:37	7°V05'14		conjunction	-3029 May 03 j 16:06	16°V49'37	-7°-44'-10
max. Earth dist.	-3037 Apr 23 j 21:22	8°V33'57	47.57916 AU	minimum elong	-3029 May 03 j 16:17	16°V49'38	7°44'09
				retrograde	-3029 Aug 13 j 14:50	18°V23'29	
conjunction	-3037 Apr 25 j 01:47	8°V35'37	-9°-49'-25	opposition	-3029 Nov 02 j 21:03	17°V21'58	-7°-56'-17
minimum elong	-3037 Apr 25 j 01:59	8°V35'37	9°49'25	min. Earth dist.	-3029 Nov 04 j 08:08	17°V20'13	44.30529 AU
retrograde	-3037 Aug 05 j 01:53	10°V07'25		direct	-3028 Jan 23 j 14:53	16°V19'51	
opposition	-3037 Oct 25 j 20:33	9°V06'45	-10°-7'-31	max. Earth dist.	-3028 May 02 j 07:36	17°V50'35	46.20294 AU
min. Earth dist.	-3037 Oct 26 j 22:42	9°V05'29	45.53862 AU				
direct	-3036 Jan 15 j 15:55	8°V05'46		conjunction	-3028 May 04 j 00:36	17°V53'02	-7°-27'-18
max. Earth dist.	-3036 Apr 24 j 02:11	9°V34'36	47.43884 AU	minimum elong	-3028 May 04 j 00:46	17°V53'03	7°27'17
				retrograde	-3028 Aug 13 j 23:38	19°V27'13	
conjunction	-3036 Apr 25 j 08:55	9°V36'24	-9°-34'-43	opposition	-3028 Nov 03 j 03:55	18°V25'34	-7°-38'-36
minimum elong	-3036 Apr 25 j 09:08	9°V36'24	9°34'43	min. Earth dist.	-3028 Nov 04 j 17:22	18°V23'42	44.13330 AU
retrograde	-3036 Aug 05 j 08:30	11°V08'24		direct	-3027 Jan 23 j 21:35	17°V23'16	
opposition	-3036 Oct 26 j 02:13	10°V07'37	-9°-52'-7	max. Earth dist.	-3027 May 03 j 15:35	18°V54'20	46.02997 AU
min. Earth dist.	-3036 Oct 27 j 05:49	10°V06'16	45.39518 AU				
direct	-3035 Jan 15 j 21:54	9°V06'29		conjunction	-3027 May 05 j 09:27	18°V56'51	-7°-10'-11
max. Earth dist.	-3035 Apr 25 j 09:26	10°V35'32	47.29526 AU	minimum elong	-3027 May 05 j 09:37	18°V56'51	7°10'10
				retrograde	-3027 Aug 15 j 06:35	20°V31'19	
conjunction	-3035 Apr 26 j 16:30	10°V37'21	-9°-19'-44	opposition	-3027 Nov 04 j 10:39	19°V29'31	-7°-20'-39
minimum elong	-3035 Apr 26 j 16:41	10°V37'22	9°19'44	min. Earth dist.	-3027 Nov 06 j 00:38	19°V27'37	43.95660 AU
retrograde	-3035 Aug 06 j 14:45	12°V09'35		direct	-3026 Jan 25 j 07:09	18°V27'02	

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Attention, astronomical year style is used: The year -3026 in astronomical counting style is the year 3027 BCE in historical counting style.

max. Earth dist.	-3026 May 04 j 21:47	19°V58'19	45.85239 AU	minimum elong	-3018 May 15 j 23:27	28°V50'00	4°23'28
					-3018 Jul 06 j 19:40	0°R	
conjunction	-3026 May 06 j 18:20	20°V01'00	-6°-52'-47	retrograde	-3018 Aug 25 j 16:58	0°R28'03	
minimum elong	-3026 May 06 j 18:29	20°V01'01	6°52'47		-3018 Oct 15 j 03:51	30°R	
retrograde	-3026 Aug 16 j 14:21	21°V35'48		opposition	-3018 Nov 14 j 08:06	29°V24'49	-4°-25'-37
opposition	-3026 Nov 05 j 17:43	20°V33'51	-7°-2'-25	min. Earth dist.	-3018 Nov 16 j 08:14	29°V22'20	42.22860 AU
min. Earth dist.	-3026 Nov 07 j 09:36	20°V31'50	43.77571 AU	direct	-3017 Feb 04 j 03:14	28°V20'31	
direct	-3025 Jan 26 j 15:04	19°V31'09		max. Earth dist.	-3017 May 15 j 03:54	29°V55'23	44.12147 AU
max. Earth dist.	-3025 May 06 j 06:27	21°V02'48	45.67079 AU				
				conjunction	-3017 May 17 j 09:55	29°V58'45	-4°-3'-34
conjunction	-3025 May 08 j 03:17	21°V05'31	-6°-35'-7	minimum elong	-3017 May 17 j 10:01	29°V58'46	4°03'32
minimum elong	-3025 May 08 j 03:27	21°V05'31	6°35'07		-3017 May 18 j 05:46	0°R	
retrograde	-3025 Aug 17 j 20:51	22°V40'39		retrograde	-3017 Aug 27 j 05:13	1°R37'17	
opposition	-3025 Nov 07 j 00:54	21°V38'32	-6°-43'-53	opposition	-3017 Nov 15 j 16:56	0°R33'53	-4°-4'-38
min. Earth dist.	-3025 Nov 08 j 17:44	21°V36'28	43.59105 AU	min. Earth dist.	-3017 Nov 17 j 17:25	0°R31'22	42.02216 AU
direct	-3024 Jan 27 j 23:42	20°V35'38			-3017 Dec 14 j 09:34	30°R	
max. Earth dist.	-3024 May 06 j 13:45	22°V07'34	45.48587 AU	direct	-3016 Feb 05 j 12:21	29°V29'21	
					-3016 Mar 29 j 02:40	0°R	
conjunction	-3024 May 08 j 12:20	22°V10'23	-6°-17'-11	max. Earth dist.	-3016 May 15 j 12:21	1°R04'36	43.91375 AU
minimum elong	-3024 May 08 j 12:29	22°V10'24	6°17'10				
retrograde	-3024 Aug 18 j 07:24	23°V45'53		conjunction	-3016 May 17 j 20:53	1°R08'09	-3°-43'-20
opposition	-3024 Nov 07 j 08:02	22°V43'36	-6°-25'-3	minimum elong	-3016 May 17 j 20:59	1°R08'10	3°43'18
min. Earth dist.	-3024 Nov 09 j 01:31	22°V41'30	43.40347 AU	retrograde	-3016 Aug 27 j 17:07	2°R47'10	
direct	-3023 Jan 28 j 04:45	21°V40'29		opposition	-3016 Nov 16 j 01:58	1°R43'33	-3°-43'-21
max. Earth dist.	-3023 May 07 j 21:56	23°V12'46	45.29803 AU	min. Earth dist.	-3016 Nov 18 j 04:41	1°R40'55	41.81156 AU
				direct	-3015 Feb 05 j 21:51	0°R38'46	
conjunction	-3023 May 09 j 21:42	23°V15'41	-5°-58'-57	max. Earth dist.	-3015 May 16 j 23:15	2°R14'33	43.70183 AU
minimum elong	-3023 May 09 j 21:51	23°V15'41	5°58'56				
retrograde	-3023 Aug 19 j 18:39	24°V51'32		conjunction	-3015 May 19 j 08:16	2°R18'09	-3°-22'-50
opposition	-3023 Nov 08 j 15:37	23°V49'05	-6°-5'-55	minimum elong	-3015 May 19 j 08:21	2°R18'10	3°22'48
min. Earth dist.	-3023 Nov 10 j 10:51	23°V46'53	43.21327 AU	retrograde	-3015 Aug 29 j 01:24	3°R57'39	
direct	-3022 Jan 29 j 10:30	22°V45'46		opposition	-3015 Nov 17 j 11:20	2°R53'49	-3°-21'-47
max. Earth dist.	-3022 May 09 j 07:00	24°V18'28	45.10790 AU	min. Earth dist.	-3015 Nov 19 j 14:47	2°R51'08	41.59675 AU
				direct	-3014 Feb 07 j 09:42	1°R48'46	
conjunction	-3022 May 11 j 07:11	24°V21'25	-5°-40'-27	max. Earth dist.	-3014 May 18 j 08:23	3°R24'57	43.48589 AU
minimum elong	-3022 May 11 j 07:19	24°V21'25	5°40'25				
retrograde	-3022 Aug 21 j 03:40	25°V57'40		conjunction	-3014 May 20 j 19:41	3°R28'43	-3°-2'-2
opposition	-3022 Nov 09 j 23:12	24°V55'03	-5°-46'-28	minimum elong	-3014 May 20 j 19:46	3°R28'44	3°02'00
min. Earth dist.	-3022 Nov 11 j 18:14	24°V52'51	43.02094 AU	retrograde	-3014 Aug 30 j 11:22	5°R08'43	
direct	-3021 Jan 30 j 19:07	23°V51'32		opposition	-3014 Nov 18 j 20:50	4°R04'39	-2°-59'-54
max. Earth dist.	-3021 May 10 j 14:39	25°V24'35	44.91569 AU	min. Earth dist.	-3014 Nov 21 j 01:31	4°R01'53	41.37832 AU
				direct	-3013 Feb 08 j 19:17	2°R59'19	
conjunction	-3021 May 12 j 16:47	25°V27'39	-5°-21'-39	max. Earth dist.	-3013 May 19 j 19:18	4°R36'00	43.26636 AU
minimum elong	-3021 May 12 j 16:55	25°V27'40	5°21'38				
retrograde	-3021 Aug 22 j 11:49	27°V04'19		conjunction	-3013 May 22 j 07:29	4°R39'51	-2°-40'-58
opposition	-3021 Nov 11 j 07:08	26°V01'33	-5°-26'-43	minimum elong	-3013 May 22 j 07:33	4°R39'51	2°40'57
min. Earth dist.	-3021 Nov 13 j 03:45	25°V59'16	42.82672 AU	retrograde	-3013 Aug 31 j 22:23	6°R20'22	
direct	-3020 Feb 01 j 04:04	24°V57'50		opposition	-3013 Nov 20 j 06:42	5°R16'03	-2°-37'-42
max. Earth dist.	-3020 May 11 j 00:38	26°V31'23	44.72147 AU	min. Earth dist.	-3013 Nov 22 j 13:00	5°R13'12	41.15667 AU
				direct	-3012 Feb 10 j 04:02	4°R10'25	
conjunction	-3020 May 13 j 02:39	26°V34'28	-5°-2'-33	max. Earth dist.	-3012 May 20 j 06:12	5°R47'38	43.04404 AU
minimum elong	-3020 May 13 j 02:47	26°V34'29	5°02'31				
retrograde	-3020 Aug 22 j 18:30	28°V11'34		conjunction	-3012 May 22 j 19:20	5°R51'33	-2°-19'-37
opposition	-3020 Nov 11 j 15:15	27°V08'39	-5°-6'-40	minimum elong	-3012 May 22 j 19:24	5°R51'34	2°19'35
min. Earth dist.	-3020 Nov 13 j 12:32	27°V06'19	42.63023 AU	retrograde	-3012 Sep 01 j 11:34	7°R32'37	
direct	-3019 Feb 01 j 14:27	26°V04'45		opposition	-3012 Nov 20 j 16:42	6°R28'03	-2°-15'-13
max. Earth dist.	-3019 May 12 j 08:47	27°V38'40	44.52482 AU	min. Earth dist.	-3012 Nov 22 j 23:02	6°R25'10	40.93251 AU
				direct	-3011 Feb 10 j 12:36	5°R22'07	
conjunction	-3019 May 14 j 12:47	27°V41'54	-4°-43'-10	max. Earth dist.	-3011 May 21 j 16:44	6°R59'49	42.81920 AU
minimum elong	-3019 May 14 j 12:55	27°V41'55	4°43'09				
retrograde	-3019 Aug 24 j 05:38	29°V19'28		conjunction	-3011 May 24 j 07:37	7°R03'53	-1°-57'-59
opposition	-3019 Nov 12 j 23:25	28°V16'24	-4°-46'-17	minimum elong	-3011 May 24 j 07:40	7°R03'53	1°57'56
min. Earth dist.	-3019 Nov 14 j 21:34	28°V14'01	42.43115 AU	retrograde	-3011 Sep 03 j 00:13	8°R45'29	
direct	-3018 Feb 02 j 20:27	27°V12'18		opposition	-3011 Nov 22 j 03:03	7°R40'40	-1°-52'-24
max. Earth dist.	-3018 May 13 j 18:15	28°V46'42	44.32497 AU	min. Earth dist.	-3011 Nov 24 j 11:15	7°R37'41	40.70632 AU
				direct	-3010 Feb 11 j 23:13	6°R34'27	
conjunction	-3018 May 15 j 23:20	28°V50'00	-4°-23'-31	max. Earth dist.	-3010 May 23 j 05:33	8°R12'48	42.59261 AU

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Attention, astronomical year style is used: The year -3010 in astronomical counting style is the year 3011 BCE in historical counting style.

conjunction	-3010 May 25 j 20:14	8°♃16'53	-1°-36'-4	opposition	-3003 Dec 02 j 02:23	17°♃53'30	1°20'52
minimum elong	-3010 May 25 j 20:17	8°♃16'53	1°36'02	min. Earth dist.	-3003 Dec 04 j 18:08	17°♃49'58	38.82991 AU
retrograde	-3010 Sep 04 j 11:11	9°♃59'04		direct	-3002 Feb 21 j 23:30	16°♃44'54	
opposition	-3010 Nov 23 j 13:46	8°♃54'01	-1°-29'-18	max. Earth dist.	-3002 Jun 02 j 12:59	18°♃28'44	40.70679 AU
min. Earth dist.	-3010 Nov 25 j 21:58	8°♃51'01	40.47859 AU				
direct	-3009 Feb 13 j 12:33	7°♃47'30		conjunction	-3002 Jun 05 j 13:33	18°♃33'43	1°29'07
max. Earth dist.	-3009 May 24 j 16:14	9°♃26'24	42.36460 AU	minimum elong	-3002 Jun 05 j 13:31	18°♃33'42	1°29'11
				retrograde	-3002 Sep 15 j 04:27	20°♃21'36	
conjunction	-3009 May 27 j 08:50	9°♃30'38	-1°-13'-52	opposition	-3002 Dec 03 j 16:02	19°♃14'33	1°46'20
minimum elong	-3009 May 27 j 08:52	9°♃30'38	1°13'50	min. Earth dist.	-3002 Dec 06 j 08:24	19°♃10'58	38.58289 AU
retrograde	-3009 Sep 06 j 00:08	11°♃13'27		direct	-3001 Feb 23 j 11:37	18°♃05'35	
opposition	-3009 Nov 25 j 00:47	10°♃08'09	-1°-5'-53	max. Earth dist.	-3001 Jun 04 j 03:45	19°♃50'10	40.45796 AU
min. Earth dist.	-3009 Nov 27 j 09:55	10°♃05'06	40.24969 AU				
direct	-3008 Feb 14 j 23:03	9°♃01'22		conjunction	-3001 Jun 07 j 05:23	19°♃55'15	1°53'26
max. Earth dist.	-3008 May 25 j 05:22	10°♃40'58	42.13521 AU	minimum elong	-3001 Jun 07 j 05:20	19°♃55'15	1°53'31
				retrograde	-3001 Sep 16 j 19:55	21°♃43'56	
conjunction	-3008 May 27 j 22:07	10°♃45'14	0°-51'-24	opposition	-3001 Dec 05 j 06:09	20°♃36'33	2°12'04
minimum elong	-3008 May 27 j 22:08	10°♃45'14	0°51'22	min. Earth dist.	-3001 Dec 08 j 00:15	20°♃32'52	38.33343 AU
retrograde	-3008 Sep 06 j 11:29	12°♃28'43		direct	-3000 Feb 25 j 00:08	19°♃27'13	
opposition	-3008 Nov 25 j 12:03	11°♃23'12	0°-42'-9	max. Earth dist.	-3000 Jun 04 j 19:42	21°♃12'37	40.20710 AU
min. Earth dist.	-3008 Nov 27 j 22:17	11°♃20'04	40.01932 AU				
direct	-3007 Feb 15 j 10:11	10°♃16'08		conjunction	-3000 Jun 07 j 21:41	21°♃17'46	2°17'59
max. Earth dist.	-3007 May 26 j 17:47	11°♃56'24	41.90429 AU	minimum elong	-3000 Jun 07 j 21:37	21°♃17'46	2°18'03
				retrograde	-3000 Sep 17 j 14:03	23°♃07'14	
conjunction	-3007 May 29 j 11:40	12°♃00'46	0°-28'-39	opposition	-3000 Dec 05 j 20:24	21°♃59'31	2°38'04
minimum elong	-3007 May 29 j 11:41	12°♃00'46	0°28'36	min. Earth dist.	-3000 Dec 08 j 14:26	21°♃55'49	38.08232 AU
retrograde	-3007 Sep 08 j 02:45	13°♃44'56		direct	-2999 Feb 25 j 14:10	20°♃49'47	
opposition	-3007 Nov 26 j 23:40	12°♃39'13	0°-18'-8	max. Earth dist.	-2999 Jun 06 j 10:36	22°♃35'58	39.95466 AU
min. Earth dist.	-3007 Nov 29 j 10:12	12°♃36'03	39.78723 AU				
direct	-3006 Feb 16 j 19:38	11°♃31'52		conjunction	-2999 Jun 09 j 14:25	22°♃41'16	2°42'46
max. Earth dist.	-3006 May 28 j 06:10	13°♃12'49	41.67099 AU	minimum elong	-2999 Jun 09 j 14:20	22°♃41'15	2°42'51
				retrograde	-2999 Sep 19 j 08:32	24°♃31'33	
conjunction	-3006 May 31 j 01:38	13°♃17'19	0°-5'-41	opposition	-2999 Dec 07 j 11:21	23°♃23'29	3°04'19
minimum elong	-3006 May 31 j 01:38	13°♃17'19	0°05'38	min. Earth dist.	-2999 Dec 10 j 06:59	23°♃19'41	37.83023 AU
behind sun begin	-3006 May 30 j 19:21	13°♃16'55		direct	-2998 Feb 27 j 04:13	22°♃13'21	
behind sun end	-3006 May 31 j 07:54	13°♃17'42		max. Earth dist.	-2998 Jun 08 j 04:11	24°♃00'28	39.70145 AU
	-3006 Aug 27 j 13:26	15°♃					
asc. node	-3006 Aug 28 j 00:36	15°♃00'09		conjunction	-2998 Jun 11 j 07:32	24°♃05'47	3°07'46
retrograde	-3006 Sep 09 j 19:13	15°♃02'13		minimum elong	-2998 Jun 11 j 07:26	24°♃05'47	3°07'50
	-3006 Sep 22 j 22:14	15°♃		retrograde	-2998 Sep 20 j 23:56	25°♃56'56	
opposition	-3006 Nov 28 j 11:48	13°♃56'15	0°06'10	opposition	-2998 Dec 09 j 02:43	24°♃48'31	3°30'49
min. Earth dist.	-3006 Dec 01 j 00:24	13°♃52'58	39.55263 AU	min. Earth dist.	-2998 Dec 11 j 22:13	24°♃44'42	37.57770 AU
direct	-3005 Feb 18 j 05:20	12°♃48'38		direct	-2997 Feb 28 j 21:34	23°♃37'59	
max. Earth dist.	-3005 May 29 j 20:10	14°♃30'21	41.43495 AU	max. Earth dist.	-2997 Jun 09 j 20:10	25°♃25'56	39.44808 AU
conjunction	-3005 Jun 01 j 16:01	14°♃34'54	0°17'41	conjunction	-2997 Jun 13 j 01:01	25°♃31'24	3°32'58
minimum elong	-3005 Jun 01 j 16:00	14°♃34'54	0°17'46	minimum elong	-2997 Jun 13 j 00:54	25°♃31'24	3°33'03
	-3005 Jun 17 j 09:01	15°♃		retrograde	-2997 Sep 22 j 17:10	27°♃23'26	
retrograde	-3005 Sep 11 j 09:24	16°♃20'31		opposition	-2997 Dec 10 j 18:28	26°♃14'42	3°57'31
opposition	-3005 Nov 30 j 00:13	15°♃14'19	0°30'47	min. Earth dist.	-2997 Dec 13 j 14:30	26°♃10'49	37.32543 AU
min. Earth dist.	-3005 Dec 02 j 13:01	15°♃11'01	39.31504 AU	direct	-2996 Mar 01 j 13:36	25°♃03'46	
	-3005 Dec 11 j 00:37	15°♃		max. Earth dist.	-2996 Jun 10 j 14:22	26°♃52'42	39.19478 AU
direct	-3004 Feb 19 j 18:59	14°♃06'24					
	-3004 Apr 28 j 17:34	15°♃		conjunction	-2996 Jun 13 j 19:08	26°♃58'13	3°58'21
max. Earth dist.	-3004 May 30 j 08:25	15°♃48'46	41.19561 AU	minimum elong	-2996 Jun 13 j 19:01	26°♃58'12	3°58'25
				retrograde	-2996 Sep 23 j 09:51	28°♃51'10	
conjunction	-3004 Jun 02 j 06:42	15°♃53'30	0°41'14	opposition	-2996 Dec 11 j 10:53	27°♃42'06	4°24'27
minimum elong	-3004 Jun 02 j 06:40	15°♃53'30	0°41'18	min. Earth dist.	-2996 Dec 14 j 07:53	27°♃38'08	37.07323 AU
retrograde	-3004 Sep 12 j 00:13	17°♃39'52		direct	-2995 Mar 03 j 05:12	26°♃30'47	
opposition	-3004 Nov 30 j 13:08	16°♃33'25	0°55'41	max. Earth dist.	-2995 Jun 12 j 08:17	28°♃20'41	38.94157 AU
min. Earth dist.	-3004 Dec 03 j 03:46	16°♃29'59	39.07418 AU				
direct	-3003 Feb 20 j 08:28	15°♃25'10		conjunction	-2995 Jun 15 j 13:44	28°♃26'17	4°23'55
max. Earth dist.	-3003 May 31 j 23:22	17°♃08'19	40.95276 AU	minimum elong	-2995 Jun 15 j 13:35	28°♃26'17	4°24'00
					-2995 Aug 17 j 09:46	0°♂	
conjunction	-3003 Jun 03 j 22:02	17°♃13'07	1°05'03	retrograde	-2995 Sep 25 j 05:03	0°♂	20'13
minimum elong	-3003 Jun 03 j 22:00	17°♃13'07	1°05'08		-2995 Nov 03 j 14:48	30°♂	
retrograde	-3003 Sep 13 j 12:39	19°♃00'14		opposition	-2995 Dec 13 j 03:36	29°♃10'50	4°51'34

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

min. Earth dist.	-2995 Dec 16 j 00:26	29° 8 06'52	36.82110 AU	min. Earth dist.	-2987 Dec 28 j 18:41	11° II 48'06	34.77661 AU
direct	-2994 Mar 04 j 20:18	27° 8 59'08		direct	-2986 Mar 17 j 01:58	10° II 37'24	
max. Earth dist.	-2994 Jun 14 j 02:19	29° 8 50'00	38.68788 AU	max. Earth dist.	-2986 Jun 27 j 04:39	12° II 37'16	36.62729 AU
conjunction	-2994 Jun 17 j 08:57	29° 8 55'45	4°49'38	conjunction	-2986 Jun 30 j 15:04	12° II 43'44	8°19'07
minimum elong	-2994 Jun 17 j 08:47	29° 8 55'44	4°49'43	minimum elong	-2986 Jun 30 j 14:47	12° II 43'42	8°19'13
	-2994 Jun 19 j 19:10	0° II		retrograde	-2986 Oct 10 j 12:01	14° II 47'28	
retrograde	-2994 Sep 27 j 01:37	1° II 50'41		opposition	-2986 Dec 27 j 14:16	13° II 34'39	9°01'32
opposition	-2994 Dec 14 j 21:09	0° II 40'58	5°18'52	min. Earth dist.	-2986 Dec 30 j 16:14	13° II 30'09	34.52257 AU
min. Earth dist.	-2994 Dec 17 j 19:37	0° II 36'53	36.56846 AU	direct	-2985 Mar 19 j 00:55	12° II 18'58	
	-2993 Jan 15 j 04:50	30° R 8		max. Earth dist.	-2985 Jun 29 j 03:56	14° II 20'01	36.37202 AU
direct	-2993 Mar 06 j 11:41	29° 8 28'53		conjunction	-2985 Jul 02 j 15:17	14° II 26'37	8°45'21
	-2993 Apr 25 j 01:35	0° II		minimum elong	-2985 Jul 02 j 14:58	14° II 26'35	8°45'26
max. Earth dist.	-2993 Jun 15 j 22:10	1° II 20'51	38.43341 AU	retrograde	-2985 Oct 12 j 14:21	16° II 31'35	
conjunction	-2993 Jun 19 j 04:33	1° II 26'37	5°15'30	opposition	-2985 Dec 29 j 13:22	15° II 18'22	9°29'26
minimum elong	-2993 Jun 19 j 04:23	1° II 26'37	5°15'36	min. Earth dist.	-2984 Jan 01 j 15:45	15° II 13'48	34.27113 AU
retrograde	-2993 Sep 28 j 23:03	3° II 22'35		direct	-2984 Mar 19 j 22:54	14° II 02'13	
opposition	-2993 Dec 16 j 15:10	2° II 12'32	5°46'20	max. Earth dist.	-2984 Jun 30 j 06:16	16° II 04'40	36.11934 AU
min. Earth dist.	-2993 Dec 19 j 13:31	2° II 08'26	36.31482 AU	conjunction	-2984 Jul 03 j 16:29	16° II 11'15	9°11'27
direct	-2992 Mar 07 j 06:08	1° II 00'03		minimum elong	-2984 Jul 03 j 16:11	16° II 11'14	9°11'33
max. Earth dist.	-2992 Jun 16 j 16:29	2° II 52'59	38.17760 AU	retrograde	-2984 Oct 13 j 15:14	18° II 17'28	
conjunction	-2992 Jun 20 j 00:53	2° II 58'57	5°41'31	opposition	-2984 Dec 30 j 13:07	17° II 03'52	9°57'12
minimum elong	-2992 Jun 20 j 00:42	2° II 58'56	5°41'36	min. Earth dist.	-2983 Jan 02 j 15:26	16° II 59'17	34.02243 AU
retrograde	-2992 Sep 29 j 20:38	4° II 55'57		direct	-2983 Mar 21 j 23:50	15° II 47'17	
opposition	-2992 Dec 17 j 09:41	3° II 45'32	6°13'58	max. Earth dist.	-2983 Jul 02 j 07:32	17° II 51'03	35.86955 AU
min. Earth dist.	-2992 Dec 20 j 09:36	3° II 41'20	36.05999 AU	conjunction	-2983 Jul 05 j 18:16	17° II 57'44	9°37'24
direct	-2991 Mar 08 j 23:33	2° II 32'38		minimum elong	-2983 Jul 05 j 17:56	17° II 57'43	9°37'29
max. Earth dist.	-2991 Jun 18 j 13:38	4° II 26'42	37.92037 AU	retrograde	-2983 Oct 15 j 19:17	20° II 05'15	
conjunction	-2991 Jun 21 j 21:58	4° II 32'43	6°07'38	opposition	-2982 Jan 01 j 13:40	18° II 51'17	10°24'49
minimum elong	-2991 Jun 21 j 21:45	4° II 32'42	6°07'43	min. Earth dist.	-2982 Jan 04 j 15:26	18° II 46'41	33.77669 AU
retrograde	-2991 Oct 01 j 16:21	6° II 30'47		direct	-2982 Mar 23 j 22:57	17° II 34'15	
opposition	-2991 Dec 19 j 04:59	5° II 20'01	6°41'44	max. Earth dist.	-2982 Jul 04 j 10:31	19° II 39'26	35.62226 AU
min. Earth dist.	-2991 Dec 22 j 05:26	5° II 15'44	35.80381 AU	conjunction	-2982 Jul 07 j 20:49	19° II 46'10	10°03'10
direct	-2990 Mar 10 j 20:26	4° II 06'40		minimum elong	-2982 Jul 07 j 20:29	19° II 46'08	10°03'16
max. Earth dist.	-2990 Jun 20 j 09:30	6° II 01'46	37.66199 AU	retrograde	-2982 Oct 17 j 20:17	21° II 55'01	
conjunction	-2990 Jun 23 j 19:18	6° II 07'57	6°33'52	opposition	-2981 Jan 03 j 15:10	20° II 40'40	10°52'13
minimum elong	-2990 Jun 23 j 19:05	6° II 07'56	6°33'57	min. Earth dist.	-2981 Jan 06 j 17:43	20° II 36'00	33.53342 AU
retrograde	-2990 Oct 03 j 14:21	8° II 07'05		direct	-2981 Mar 25 j 22:10	19° II 23'12	
opposition	-2990 Dec 21 j 00:45	6° II 55'56	7°09'36	max. Earth dist.	-2981 Jul 06 j 14:14	21° II 29'49	35.37736 AU
min. Earth dist.	-2990 Dec 24 j 01:34	6° II 51'36	35.54686 AU	conjunction	-2981 Jul 10 j 00:07	21° II 36'35	10°28'41
direct	-2989 Mar 12 j 15:18	5° II 42'08		minimum elong	-2981 Jul 09 j 23:45	21° II 36'33	10°28'46
max. Earth dist.	-2989 Jun 22 j 07:17	7° II 38'22	37.40276 AU	retrograde	-2981 Oct 20 j 00:27	23° II 46'47	
conjunction	-2989 Jun 25 j 17:27	7° II 44'38	7°00'09	opposition	-2980 Jan 05 j 17:13	22° II 32'03	11°19'22
minimum elong	-2989 Jun 25 j 17:12	7° II 44'37	7°00'14	min. Earth dist.	-2980 Jan 08 j 18:55	22° II 27'24	33.29240 AU
retrograde	-2989 Oct 05 j 11:13	9° II 44'53		direct	-2980 Mar 26 j 22:35	21° II 14'09	
opposition	-2989 Dec 22 j 21:10	8° II 33'19	7°37'33	max. Earth dist.	-2980 Jul 07 j 17:43	23° II 22'07	35.13429 AU
min. Earth dist.	-2989 Dec 25 j 23:17	8° II 28'53	35.28952 AU	conjunction	-2980 Jul 11 j 04:19	23° II 29'01	10°53'57
direct	-2988 Mar 13 j 09:41	7° II 19'04		minimum elong	-2980 Jul 11 j 03:58	23° II 28'59	10°54'03
max. Earth dist.	-2988 Jun 23 j 05:40	9° II 16'27	37.14351 AU	retrograde	-2980 Oct 21 j 05:52	25° II 40'35	
conjunction	-2988 Jun 26 j 16:01	9° II 22'48	7°26'29	opposition	-2979 Jan 06 j 20:23	24° II 25'27	11°46'15
minimum elong	-2988 Jun 26 j 15:46	9° II 22'47	7°26'35	min. Earth dist.	-2979 Jan 09 j 23:14	24° II 20'43	33.05325 AU
retrograde	-2988 Oct 06 j 10:30	11° II 24'11		direct	-2979 Mar 28 j 22:00	23° II 07'05	
opposition	-2988 Dec 23 j 18:08	10° II 12'12	8°05'33	max. Earth dist.	-2979 Jul 09 j 23:40	25° II 16'34	34.89304 AU
min. Earth dist.	-2988 Dec 26 j 19:46	10° II 07'47	35.03253 AU	conjunction	-2979 Jul 13 j 09:18	25° II 23'27	11°18'53
direct	-2987 Mar 15 j 06:19	8° II 57'28		minimum elong	-2979 Jul 13 j 08:55	25° II 23'25	11°18'58
max. Earth dist.	-2987 Jun 25 j 03:48	10° II 56'00	36.88468 AU	retrograde	-2979 Oct 27 j 11:57	27° II 36'23	
conjunction	-2987 Jun 28 j 15:15	11° II 02'29	7°52'49	opposition	-2978 Jan 09 j 00:19	26° II 20'50	12°12'47
minimum elong	-2987 Jun 28 j 14:58	11° II 02'27	7°52'55	min. Earth dist.	-2978 Jan 12 j 02:17	26° II 16'07	32.81593 AU
retrograde	-2987 Oct 08 j 11:35	13° II 05'02		direct	-2978 Mar 31 j 02:22	25° II 02'00	
opposition	-2987 Dec 25 j 15:51	11° II 52'38	8°33'34	max. Earth dist.	-2978 Jul 12 j 04:22	27° II 12'50	34.65371 AU

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Attention, astronomical year style is used: The year -2978 in astronomical counting style is the year 2979 BCE in historical counting style.

conjunction	-2978 Jul 15 j 15:00	27°II19'51	11°43'28	conjunction	-2970 Aug 01 j 15:39	14°☾01'56	14°38'32
minimum elong	-2978 Jul 15 j 14:37	27°II19'50	11°43'34	minimum elong	-2970 Aug 01 j 15:17	14°☾01'54	14°38'38
retrograde	-2978 Oct 25 j 20:52	29°II34'11		retrograde	-2970 Nov 12 j 04:43	16°☾27'26	
opposition	-2977 Jan 11 j 05:08	28°II18'11	12°38'55	opposition	-2969 Jan 28 j 02:38	15°☾08'08	15°44'21
min. Earth dist.	-2977 Jan 14 j 07:34	28°II13'25	32.58089 AU	min. Earth dist.	-2969 Jan 30 j 22:07	15°☾03'36	30.85453 AU
direct	-2977 Apr 02 j 06:20	26°II58'52		direct	-2969 Apr 18 j 18:18	13°☾45'14	
max. Earth dist.	-2977 Jul 14 j 12:14	29°II11'15	34.41673 AU	max. Earth dist.	-2969 Aug 01 j 02:52	16°☾09'50	32.68700 AU
conjunction	-2977 Jul 17 j 21:27	29°II18'13	12°07'37	conjunction	-2969 Aug 04 j 04:04	16°☾16'38	14°56'34
minimum elong	-2977 Jul 17 j 21:03	29°II18'11	12°07'42	minimum elong	-2969 Aug 04 j 03:42	16°☾16'36	14°56'39
	-2977 Aug 07 j 10:30	0°☾		retrograde	-2969 Nov 14 j 21:00	18°☾43'33	
retrograde	-2977 Oct 28 j 03:40	1°☾33'55		opposition	-2968 Jan 30 j 15:24	17°☾23'54	16°03'18
opposition	-2976 Jan 13 j 10:48	0°☾17'29	13°04'35	min. Earth dist.	-2968 Feb 02 j 09:56	17°☾19'25	30.66585 AU
min. Earth dist.	-2976 Jan 16 j 12:54	0°☾12'42	32.34834 AU	direct	-2968 Apr 20 j 05:52	16°☾00'39	
	-2976 Jan 24 j 19:36	30°RII		max. Earth dist.	-2968 Aug 02 j 18:55	18°☾26'55	32.49849 AU
direct	-2976 Apr 03 j 12:43	28°II57'41		conjunction	-2968 Aug 05 j 17:34	18°☾33'32	15°13'30
	-2976 Jun 09 j 03:17	0°☾		minimum elong	-2968 Aug 05 j 17:13	18°☾33'30	15°13'35
max. Earth dist.	-2976 Jul 15 j 18:57	1°☾11'26	34.18264 AU	retrograde	-2968 Nov 16 j 11:17	21°☾01'50	
conjunction	-2976 Jul 19 j 04:37	1°☾18'31	12°31'16	opposition	-2967 Feb 01 j 05:10	19°☾41'51	16°21'03
minimum elong	-2976 Jul 19 j 04:14	1°☾18'29	12°31'22	min. Earth dist.	-2967 Feb 03 j 22:43	19°☾37'24	30.48310 AU
retrograde	-2976 Oct 29 j 12:38	3°☾35'35		direct	-2967 Apr 22 j 19:21	18°☾18'16	
opposition	-2975 Jan 14 j 17:06	2°☾18'42	13°29'43	max. Earth dist.	-2967 Aug 05 j 09:43	20°☾45'57	32.31621 AU
min. Earth dist.	-2975 Jan 17 j 18:41	2°☾13'55	32.11915 AU	conjunction	-2967 Aug 08 j 07:42	20°☾52'34	15°29'16
direct	-2975 Apr 05 j 18:15	0°☾58'24		minimum elong	-2967 Aug 08 j 07:21	20°☾52'32	15°29'20
max. Earth dist.	-2975 Jul 18 j 04:14	3°☾13'42	33.95208 AU	retrograde	-2967 Nov 19 j 04:26	23°☾22'13	
conjunction	-2975 Jul 21 j 12:42	3°☾20'45	12°54'22	opposition	-2966 Feb 06 j 19:52	22°☾01'54	16°37'32
minimum elong	-2975 Jul 21 j 12:17	3°☾20'43	12°54'27	min. Earth dist.	-2966 Feb 03 j 11:38	21°☾57'33	30.30650 AU
retrograde	-2975 Oct 31 j 20:13	5°☾39'11		direct	-2966 Apr 25 j 08:45	20°☾37'59	
opposition	-2974 Jan 17 j 00:34	4°☾21'51	13°54'14	max. Earth dist.	-2966 Aug 08 j 02:52	23°☾07'11	32.14011 AU
min. Earth dist.	-2974 Jan 20 j 02:07	4°☾17'02	31.89393 AU	conjunction	-2966 Aug 10 j 22:35	23°☾13'39	15°43'47
direct	-2974 Apr 08 j 00:52	3°☾01'04		minimum elong	-2966 Aug 10 j 22:17	23°☾13'37	15°43'53
max. Earth dist.	-2974 Jul 20 j 13:33	5°☾17'51	33.72610 AU	retrograde	-2966 Nov 21 j 20:22	25°☾44'35	
conjunction	-2974 Jul 23 j 21:10	5°☾24'54	13°16'49	opposition	-2965 Feb 06 j 11:33	24°☾23'56	16°52'40
minimum elong	-2974 Jul 23 j 20:46	5°☾24'52	13°16'55	min. Earth dist.	-2965 Feb 09 j 02:39	24°☾19'37	30.13601 AU
retrograde	-2974 Nov 03 j 06:44	7°☾44'43		direct	-2965 Apr 27 j 23:19	22°☾59'42	
opposition	-2973 Jan 19 j 08:44	6°☾26'57	14°18'02	max. Earth dist.	-2965 Aug 10 j 19:49	25°☾30'16	31.97065 AU
min. Earth dist.	-2973 Jan 22 j 08:32	6°☾22'13	31.67373 AU	conjunction	-2965 Aug 13 j 14:09	25°☾36'38	15°57'00
direct	-2973 Apr 10 j 07:47	5°☾05'40		minimum elong	-2965 Aug 13 j 13:51	25°☾36'37	15°57'04
max. Earth dist.	-2973 Jul 22 j 23:58	7°☾23'59	33.50540 AU	retrograde	-2965 Nov 24 j 14:42	28°☾08'48	
conjunction	-2973 Jul 26 j 06:37	7°☾31'01	13°38'32	opposition	-2964 Feb 09 j 03:44	26°☾47'50	17°06'21
minimum elong	-2973 Jul 26 j 06:13	7°☾30'59	13°38'37	min. Earth dist.	-2964 Feb 11 j 16:21	26°☾43'39	29.97212 AU
retrograde	-2973 Nov 05 j 15:33	9°☾52'15		direct	-2964 Apr 29 j 14:55	25°☾23'15	
opposition	-2972 Jan 21 j 17:48	8°☾34'03	14°41'02	max. Earth dist.	-2964 Aug 12 j 14:03	27°☾55'11	31.80808 AU
min. Earth dist.	-2972 Jan 24 j 17:37	8°☾29'18	31.45927 AU	conjunction	-2964 Aug 15 j 06:31	28°☾01'25	16°08'49
direct	-2972 Apr 11 j 14:07	7°☾12'20		minimum elong	-2964 Aug 15 j 06:15	28°☾01'24	16°08'54
max. Earth dist.	-2972 Jul 24 j 12:09	9°☾32'15	33.29094 AU		-2964 Oct 12 j 06:58	0°♁	
conjunction	-2972 Jul 27 j 16:51	9°☾39'11	13°59'27	retrograde	-2964 Nov 26 j 06:14	0°♁34'46	
minimum elong	-2972 Jul 27 j 16:28	9°☾39'09	13°59'33		-2963 Jan 11 j 23:42	30°R☾	
retrograde	-2972 Nov 07 j 02:43	12°☾01'49		opposition	-2963 Feb 10 j 21:01	29°☾13'27	17°18'30
opposition	-2971 Jan 23 j 03:47	10°☾43'14	15°03'08	min. Earth dist.	-2963 Feb 13 j 09:00	29°☾09'18	29.81525 AU
min. Earth dist.	-2971 Jan 26 j 01:29	10°☾38'36	31.25110 AU	direct	-2963 May 02 j 06:04	27°☾48'32	
direct	-2971 Apr 13 j 23:27	9°☾21'05			-2963 Aug 06 j 00:15	0°♁	
max. Earth dist.	-2971 Jul 26 j 23:39	11°☾42'31	33.08295 AU	max. Earth dist.	-2963 Aug 15 j 09:21	0°♁21'48	31.65325 AU
conjunction	-2971 Jul 30 j 03:48	11°☾49'28	14°19'28	conjunction	-2963 Aug 17 j 23:15	0°♁27'51	16°19'09
minimum elong	-2971 Jul 30 j 03:24	11°☾49'26	14°19'33	minimum elong	-2963 Aug 17 j 23:00	0°♁27'50	16°19'14
retrograde	-2971 Nov 09 j 15:31	14°☾13'32		retrograde	-2963 Nov 29 j 00:17	3°♁02'17	
opposition	-2970 Jan 25 j 14:46	12°☾54'35	15°24'16	opposition	-2962 Feb 13 j 14:57	1°♁40'39	17°29'02
min. Earth dist.	-2970 Jan 28 j 12:04	12°☾49'57	31.04957 AU	min. Earth dist.	-2962 Feb 15 j 23:55	1°♁36'41	29.66616 AU
direct	-2970 Apr 16 j 07:12	11°☾32'02		direct	-2962 May 04 j 23:35	0°♁15'26	
max. Earth dist.	-2970 Jul 29 j 14:03	13°☾55'10	32.88172 AU	max. Earth dist.	-2962 Aug 18 j 04:34	2°♁49'54	31.50679 AU

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Attention, astronomical year style is used: The year -2962 in astronomical counting style is the year 2963 BCE in historical counting style.

conjunction	-2962 Aug 20 j 16:35	2°Ω55'48	16°27'55	conjunction	-2954 Sep 10 j 01:30	23°Ω22'55	16°33'37
minimum elong	-2962 Aug 20 j 16:23	2°Ω55'46	16°28'00	minimum elong	-2954 Sep 10 j 01:37	23°Ω22'56	16°33'40
retrograde	-2962 Dec 01 j 18:23	5°Ω31'17		retrograde	-2954 Dec 22 j 15:44	26°Ω04'04	
opposition	-2961 Feb 16 j 09:36	4°Ω09'18	17°37'50	opposition	-2953 Mar 09 j 11:44	24°Ω40'40	17°37'53
min. Earth dist.	-2961 Feb 18 j 17:19	4°Ω05'26	29.52581 AU	min. Earth dist.	-2953 Mar 10 j 20:06	24°Ω38'23	28.77112 AU
direct	-2961 May 07 j 14:47	2°Ω43'47		direct	-2953 May 28 j 12:03	23°Ω14'19	
max. Earth dist.	-2961 Aug 21 j 01:50	5°Ω19'32	31.36982 AU				
conjunction	-2961 Aug 23 j 10:20	5°Ω25'08	16°35'02	conjunction	-2953 Sep 12 j 21:51	26°Ω00'06	16°25'48
minimum elong	-2961 Aug 23 j 10:08	5°Ω25'06	16°35'06	minimum elong	-2953 Sep 12 j 21:58	26°Ω00'07	16°25'52
retrograde	-2961 Dec 04 j 12:17	8°Ω01'35		max. Earth dist.	-2953 Sep 11 j 13:51	25°Ω56'50	30.65785 AU
opposition	-2960 Feb 19 j 04:55	6°Ω39'19	17°44'49	retrograde	-2953 Dec 25 j 12:07	28°Ω41'31	
min. Earth dist.	-2960 Feb 21 j 09:20	6°Ω35'39	29.39488 AU	opposition	-2952 Mar 11 j 10:57	27°Ω18'02	17°28'40
direct	-2960 May 09 j 10:43	5°Ω13'33		min. Earth dist.	-2952 Mar 12 j 17:27	27°Ω15'54	28.72239 AU
max. Earth dist.	-2960 Aug 22 j 21:57	7°Ω50'21	31.24293 AU	direct	-2952 May 30 j 09:53	25°Ω51'43	
conjunction	-2960 Aug 25 j 04:31	7°Ω55'47	16°40'25	conjunction	-2952 Sep 14 j 18:07	28°Ω37'31	16°16'05
minimum elong	-2960 Aug 25 j 04:24	7°Ω55'46	16°40'29	minimum elong	-2952 Sep 14 j 18:19	28°Ω37'32	16°16'07
retrograde	-2960 Dec 06 j 07:55	10°Ω33'09		max. Earth dist.	-2952 Sep 13 j 13:19	28°Ω34'35	30.61584 AU
opposition	-2959 Feb 21 j 00:52	9°Ω10'36	17°49'53		-2952 Oct 20 j 00:57	0°♄	
min. Earth dist.	-2959 Feb 23 j 03:03	9°Ω07'06	29.27426 AU	retrograde	-2952 Dec 27 j 09:49	1°♄19'05	
direct	-2959 May 12 j 04:26	7°Ω44'38			-2951 Mar 11 j 19:01	30°♂♂	
max. Earth dist.	-2959 Aug 25 j 20:52	10°Ω22'38	31.12696 AU	opposition	-2951 Mar 14 j 10:07	29°Ω55'33	17°17'23
conjunction	-2959 Aug 27 j 23:17	10°Ω27'41	16°43'59	min. Earth dist.	-2951 Mar 15 j 12:33	29°Ω53'41	28.68356 AU
minimum elong	-2959 Aug 27 j 23:10	10°Ω27'40	16°44'03	direct	-2951 Jun 02 j 09:50	28°Ω29'16	
retrograde	-2959 Dec 09 j 03:16	13°Ω05'53			-2951 Aug 16 j 19:21	0°♄	
opposition	-2959 Feb 23 j 21:33	11°Ω43'08	17°53'00	conjunction	-2951 Sep 17 j 14:23	1°♄14'58	16°04'27
min. Earth dist.	-2958 Feb 25 j 20:39	11°Ω39'49	29.16424 AU	minimum elong	-2951 Sep 17 j 14:35	1°♄15'00	16°04'30
direct	-2958 May 15 j 00:13	10°Ω17'00		max. Earth dist.	-2951 Sep 16 j 12:38	1°♄12'21	30.58415 AU
max. Earth dist.	-2958 Aug 28 j 17:55	12°Ω55'55	31.02211 AU	retrograde	-2951 Dec 30 j 07:08	3°♄56'35	
conjunction	-2958 Aug 30 j 18:10	13°Ω00'46	16°45'43	opposition	-2950 Mar 17 j 09:32	2°♄33'00	17°04'03
minimum elong	-2958 Aug 30 j 18:07	13°Ω00'45	16°45'47	min. Earth dist.	-2950 Mar 18 j 09:38	2°♄31'18	28.65510 AU
retrograde	-2958 Oct 25 j 12:03	15°Ω		direct	-2950 Jun 05 j 07:15	1°♄06'46	
opposition	-2958 Dec 12 j 00:56	15°Ω39'45		conjunction	-2950 Sep 20 j 10:22	3°♄52'14	15°50'56
min. Earth dist.	-2957 Jan 30 j 20:27	15°♂♂		minimum elong	-2950 Sep 20 j 10:37	3°♄52'16	15°50'59
direct	-2957 Feb 26 j 18:39	14°Ω16'49	17°54'06	max. Earth dist.	-2950 Sep 19 j 12:34	3°♄50'01	30.56338 AU
max. Earth dist.	-2957 Aug 31 j 17:38	15°Ω30'32	30.92824 AU	retrograde	-2949 Jan 02 j 02:54	6°♄33'46	
conjunction	-2957 Sep 02 j 13:41	15°Ω34'58	16°45'33	opposition	-2949 Mar 20 j 08:45	5°♄10'10	16°48'41
minimum elong	-2957 Sep 02 j 13:39	15°Ω34'58	16°45'37	min. Earth dist.	-2949 Mar 21 j 04:45	5°♄08'45	28.63731 AU
retrograde	-2957 Dec 14 j 21:11	18°Ω14'38		direct	-2949 Jun 08 j 07:35	3°♄44'01	
opposition	-2956 Feb 29 j 16:13	16°Ω51'33	17°53'09	max. Earth dist.	-2949 Sep 22 j 11:12	6°♄27'11	30.55383 AU
min. Earth dist.	-2956 Mar 02 j 10:01	16°Ω48'37	28.97639 AU	conjunction	-2949 Sep 23 j 06:08	6°♄29'07	15°35'34
direct	-2956 May 19 j 17:42	15°Ω25'15		minimum elong	-2949 Sep 23 j 06:24	6°♄29'09	15°35'36
max. Earth dist.	-2956 Sep 02 j 15:32	18°Ω05'56	30.84516 AU	retrograde	-2948 Jan 04 j 22:48	9°♄10'29	
conjunction	-2956 Sep 04 j 09:22	18°Ω10'10	16°43'30	opposition	-2948 Mar 22 j 07:49	7°♄46'52	16°31'19
minimum elong	-2956 Sep 04 j 09:24	18°Ω10'10	16°43'33	min. Earth dist.	-2948 Mar 23 j 00:49	7°♄45'40	28.63098 AU
retrograde	-2956 Dec 16 j 19:35	20°Ω50'26		direct	-2948 Jun 10 j 05:06	6°♄20'49	
opposition	-2955 Mar 03 j 14:20	19°Ω27'13	17°50'08	max. Earth dist.	-2948 Sep 24 j 11:29	9°♄04'02	30.55631 AU
min. Earth dist.	-2955 Mar 05 j 04:35	19°Ω24'32	28.89803 AU	conjunction	-2948 Sep 25 j 01:44	9°♄05'29	15°18'22
direct	-2955 May 22 j 14:55	18°Ω00'53		minimum elong	-2948 Sep 25 j 02:03	9°♄05'31	15°18'23
max. Earth dist.	-2955 Sep 05 j 15:24	20°Ω42'22	30.77245 AU	retrograde	-2947 Jan 06 j 18:08	11°♄46'35	
conjunction	-2955 Sep 07 j 05:23	20°Ω46'13	16°39'31	opposition	-2947 Mar 25 j 06:53	10°♄22'59	16°11'59
minimum elong	-2955 Sep 07 j 05:25	20°Ω46'13	16°39'35	min. Earth dist.	-2947 Mar 25 j 19:58	10°♄22'04	28.63654 AU
retrograde	-2955 Dec 19 j 16:37	23°Ω26'58		direct	-2947 Jun 13 j 03:59	8°♄57'06	
opposition	-2954 Mar 06 j 13:02	22°Ω03'40	17°45'03	conjunction	-2947 Sep 27 j 20:46	11°♄41'11	14°59'21
min. Earth dist.	-2954 Mar 08 j 01:15	22°Ω01'07	28.82961 AU	minimum elong	-2947 Sep 27 j 21:06	11°♄41'13	14°59'23
direct	-2954 May 25 j 12:52	20°Ω37'19		max. Earth dist.	-2947 Sep 27 j 09:27	11°♄40'02	30.57119 AU
max. Earth dist.	-2954 Sep 08 j 14:07	23°Ω19'19	30.71011 AU	retrograde	-2946 Jan 09 j 14:22	14°♄21'57	
				opposition	-2946 Mar 28 j 05:43	12°♄58'25	15°50'43
				min. Earth dist.	-2946 Mar 28 j 14:52	12°♄57'47	28.65456 AU
				direct	-2946 Jun 16 j 01:28	11°♄32'44	
				conjunction	-2946 Sep 30 j 15:45	14°♄16'11	14°38'37

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Attention, astronomical year style is used: The year -2946 in astronomical counting style is the year 2947 BCE in historical counting style.

minimum elong	-2946 Sep 30 j 16:07	14° \mathring{M} 16'13	14°38'38	minimum elong	-2938 Oct 20 j 06:19	4° \mathring{U} 17'50	11°01'16
max. Earth dist.	-2946 Sep 30 j 09:22	14° \mathring{M} 15'32	30.59874 AU	max. Earth dist.	-2938 Oct 21 j 01:07	4° \mathring{U} 19'40	31.21641 AU
retrograde	-2945 Jan 12 j 08:34	16° \mathring{M} 56'31		retrograde	-2937 Feb 01 j 04:58	6° \mathring{U} 51'56	
opposition	-2945 Mar 31 j 04:08	15° \mathring{M} 33'06	15°27'38	min. Earth dist.	-2937 Apr 20 j 04:11	5° \mathring{U} 31'25	29.31224 AU
min. Earth dist.	-2945 Mar 31 j 09:56	15° \mathring{M} 32'41	28.68483 AU	opposition	-2937 Apr 21 j 00:41	5° \mathring{U} 30'02	11°29'11
direct	-2945 Jun 19 j 00:19	14° \mathring{M} 07'39		direct	-2937 Jul 09 j 23:07	4° \mathring{U} 07'10	
conjunction	-2945 Oct 03 j 10:10	16° \mathring{M} 50'23	14°16'13	conjunction	-2937 Oct 22 j 20:02	6° \mathring{U} 41'15	10°29'10
minimum elong	-2945 Oct 03 j 10:32	16° \mathring{M} 50'25	14°16'16	minimum elong	-2937 Oct 22 j 20:26	6° \mathring{U} 41'17	10°29'11
max. Earth dist.	-2945 Oct 03 j 06:25	16° \mathring{M} 50'00	30.63867 AU	max. Earth dist.	-2937 Oct 23 j 19:00	6° \mathring{U} 43'29	31.33627 AU
retrograde	-2944 Jan 15 j 04:58	19° \mathring{M} 30'13		retrograde	-2936 Feb 03 j 17:36	9° \mathring{U} 14'19	
opposition	-2944 Apr 02 j 02:16	18° \mathring{M} 06'56	15°02'47	opposition	-2936 Apr 22 j 18:29	7° \mathring{U} 52'38	10°54'20
min. Earth dist.	-2944 Apr 02 j 03:43	18° \mathring{M} 06'50	28.72717 AU	min. Earth dist.	-2936 Apr 21 j 18:54	7° \mathring{U} 54'13	29.43284 AU
direct	-2944 Jun 20 j 21:06	16° \mathring{M} 41'46		direct	-2936 Jul 11 j 18:36	6° \mathring{U} 30'06	
conjunction	-2944 Oct 05 j 04:15	19° \mathring{M} 23'41	13°52'16	conjunction	-2936 Oct 24 j 09:08	9° \mathring{U} 02'50	9°56'18
minimum elong	-2944 Oct 05 j 04:38	19° \mathring{M} 23'44	13°52'17	minimum elong	-2936 Oct 24 j 09:31	9° \mathring{U} 02'53	9°56'16
max. Earth dist.	-2944 Oct 05 j 05:09	19° \mathring{M} 23'47	30.69042 AU	max. Earth dist.	-2936 Oct 25 j 10:23	9° \mathring{U} 05'16	31.46528 AU
retrograde	-2943 Jan 16 j 22:53	22° \mathring{M} 02'56		retrograde	-2935 Feb 05 j 07:27	11° \mathring{U} 34'50	
opposition	-2943 Apr 05 j 00:13	20° \mathring{M} 39'50	14°36'18	min. Earth dist.	-2935 Apr 24 j 08:25	10° \mathring{U} 15'11	29.56309 AU
min. Earth dist.	-2943 Apr 04 j 23:00	20° \mathring{M} 39'55	28.78084 AU	opposition	-2935 Apr 25 j 11:39	10° \mathring{U} 13'21	10°18'41
direct	-2943 Jun 23 j 18:54	19° \mathring{M} 14'59		direct	-2935 Jul 14 j 10:58	8° \mathring{U} 51'11	
conjunction	-2943 Oct 07 j 21:49	21° \mathring{M} 56'00	13°26'50	conjunction	-2935 Oct 26 j 21:47	11° \mathring{U} 22'33	9°22'44
minimum elong	-2943 Oct 07 j 22:13	21° \mathring{M} 56'02	13°26'52	minimum elong	-2935 Oct 26 j 22:09	11° \mathring{U} 22'36	9°22'44
max. Earth dist.	-2943 Oct 08 j 01:21	21° \mathring{M} 56'21	30.75349 AU	max. Earth dist.	-2935 Oct 28 j 03:14	11° \mathring{U} 25'23	31.60392 AU
retrograde	-2942 Jan 19 j 19:02	24° \mathring{M} 34'35		retrograde	-2934 Feb 07 j 18:00	13° \mathring{U} 53'26	
opposition	-2942 Apr 07 j 21:36	23° \mathring{M} 11'40	14°08'17	min. Earth dist.	-2934 Apr 26 j 22:10	12° \mathring{U} 34'12	29.70309 AU
min. Earth dist.	-2942 Apr 07 j 16:01	23° \mathring{M} 12'03	28.84546 AU	opposition	-2934 Apr 28 j 04:00	12° \mathring{U} 32'13	9°42'21
direct	-2942 Jun 26 j 17:23	21° \mathring{M} 47'08		direct	-2934 Jul 17 j 04:13	11° \mathring{U} 10'26	
conjunction	-2942 Oct 10 j 14:57	24° \mathring{M} 27'11	13°00'03	conjunction	-2934 Oct 29 j 09:30	13° \mathring{U} 40'27	8°48'34
minimum elong	-2942 Oct 10 j 15:22	24° \mathring{M} 27'13	13°00'03	minimum elong	-2934 Oct 29 j 09:51	13° \mathring{U} 40'28	8°48'32
max. Earth dist.	-2942 Oct 10 j 22:34	24° \mathring{M} 27'57	30.82707 AU	max. Earth dist.	-2934 Oct 30 j 16:56	13° \mathring{U} 43'26	31.75227 AU
retrograde	-2941 Jan 22 j 12:03	27° \mathring{M} 05'02		retrograde	-2933 Feb 10 j 06:54	16° \mathring{U} 10'12	
opposition	-2941 Apr 10 j 18:39	25° \mathring{M} 42'18	13°38'51	min. Earth dist.	-2933 Apr 29 j 09:37	14° \mathring{U} 51'31	29.85290 AU
min. Earth dist.	-2941 Apr 10 j 10:54	25° \mathring{M} 42'50	28.92022 AU	opposition	-2933 Apr 30 j 19:30	14° \mathring{U} 49'16	9°05'27
direct	-2941 Jun 29 j 13:50	24° \mathring{M} 18'06		direct	-2933 Jul 19 j 18:42	13° \mathring{U} 27'54	
conjunction	-2941 Oct 13 j 07:35	26° \mathring{M} 57'06	12°31'59	conjunction	-2933 Oct 31 j 20:39	15° \mathring{U} 56'33	8°13'55
minimum elong	-2941 Oct 13 j 08:00	26° \mathring{M} 57'08	12°32'00	minimum elong	-2933 Oct 31 j 20:59	15° \mathring{U} 56'35	8°13'53
max. Earth dist.	-2941 Oct 13 j 17:56	26° \mathring{M} 58'07	30.91065 AU	max. Earth dist.	-2933 Nov 02 j 08:03	15° \mathring{U} 59'53	31.91000 AU
retrograde	-2940 Jan 25 j 06:09	29° \mathring{M} 34'07		retrograde	-2932 Feb 12 j 17:10	18° \mathring{U} 25'11	
opposition	-2940 Apr 12 j 14:56	28° \mathring{M} 11'36	13°08'07	min. Earth dist.	-2932 Apr 30 j 22:30	17° \mathring{U} 06'56	30.01200 AU
min. Earth dist.	-2940 Apr 12 j 03:02	28° \mathring{M} 12'25	29.00457 AU	opposition	-2932 May 02 j 10:21	17° \mathring{U} 04'35	8°28'05
direct	-2940 Jul 01 j 11:43	26° \mathring{M} 47'44		direct	-2932 Jul 21 j 08:44	15° \mathring{U} 43'39	
conjunction	-2940 Oct 14 j 23:43	29° \mathring{M} 25'36	12°02'47	conjunction	-2932 Nov 02 j 07:02	18° \mathring{U} 10'56	7°38'51
minimum elong	-2940 Oct 15 j 00:08	29° \mathring{M} 25'38	12°02'46	minimum elong	-2932 Nov 02 j 07:20	18° \mathring{U} 10'57	7°38'49
max. Earth dist.	-2940 Oct 15 j 13:16	29° \mathring{M} 26'56	31.00354 AU	max. Earth dist.	-2932 Nov 03 j 20:33	18° \mathring{U} 14'26	32.07672 AU
retrograde	-2940 Oct 29 j 14:32	0° \mathring{U}		retrograde	-2931 Feb 14 j 05:27	20° \mathring{U} 38'26	
retrograde	-2939 Jan 26 j 23:18	2° \mathring{U} 01'44		min. Earth dist.	-2931 May 03 j 08:36	19° \mathring{U} 20'46	30.17990 AU
opposition	-2939 Apr 15 j 10:59	0° \mathring{U} 39'24	12°36'11	opposition	-2931 May 05 j 00:25	19° \mathring{U} 18'10	7°50'21
min. Earth dist.	-2939 Apr 14 j 20:46	0° \mathring{U} 40'22	29.09820 AU	direct	-2931 Jul 23 j 23:51	17° \mathring{U} 57'41	
direct	-2939 May 10 j 13:46	30° \mathring{R} \mathring{M}		conjunction	-2931 Nov 04 j 16:41	20° \mathring{U} 23'37	7°03'29
conjunction	-2939 Oct 17 j 15:08	1° \mathring{U} 52'33	11°32'30	minimum elong	-2931 Nov 04 j 16:58	20° \mathring{U} 23'39	7°03'27
minimum elong	-2939 Oct 17 j 15:32	1° \mathring{U} 52'35	11°32'31	max. Earth dist.	-2931 Nov 06 j 09:27	20° \mathring{U} 27'24	32.25152 AU
max. Earth dist.	-2939 Oct 18 j 07:50	1° \mathring{U} 54'11	31.10560 AU	retrograde	-2930 Feb 16 j 16:35	22° \mathring{U} 50'00	
retrograde	-2938 Jan 29 j 14:37	4° \mathring{U} 27'42		min. Earth dist.	-2930 May 05 j 20:21	21° \mathring{U} 32'46	30.35581 AU
opposition	-2938 Apr 18 j 06:14	3° \mathring{U} 05'36	12°03'11	opposition	-2930 May 07 j 13:53	21° \mathring{U} 30'04	7°12'21
min. Earth dist.	-2938 Apr 17 j 12:21	3° \mathring{U} 06'48	29.20070 AU	direct	-2930 Jul 26 j 13:05	20° \mathring{U} 10'03	
direct	-2938 Jul 07 j 05:12	1° \mathring{U} 42'24		conjunction	-2930 Nov 07 j 01:48	22° \mathring{U} 34'38	6°27'53
conjunction	-2938 Oct 20 j 05:55	4° \mathring{U} 17'48	11°01'16	minimum elong	-2930 Nov 07 j 02:04	22° \mathring{U} 34'39	6°27'51
				max. Earth dist.	-2930 Nov 08 j 20:49	22° \mathring{U} 38'35	32.43374 AU
				retrograde	-2929 Feb 19 j 01:56	24° \mathring{U} 59'51	

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Attention, astronomical year style is used: The year -2929 in astronomical counting style is the year 2930 BCE in historical counting style.

min. Earth dist.	-2929 May 08 j 05:38	23° $\underline{\text{A}}$ 43'10	30.53875 AU	min. Earth dist.	-2921 May 24 j 15:19	10° M 01'07	32.19554 AU
opposition	-2929 May 10 j 02:15	23° $\underline{\text{A}}$ 40'17	6°34'11	opposition	-2921 May 27 j 03:31	9° M 57'24	1°32'19
direct	-2929 Jul 29 j 02:52	22° $\underline{\text{A}}$ 20'43		direct	-2921 Aug 15 j 07:03	8° M 41'01	
conjunction	-2929 Nov 09 j 10:10	24° $\underline{\text{A}}$ 43'57	5°52'10	conjunction	-2921 Nov 25 j 04:27	10° M 53'27	1°09'54
minimum elong	-2929 Nov 09 j 10:25	24° $\underline{\text{A}}$ 43'58	5°52'09	minimum elong	-2921 Nov 25 j 04:30	10° M 53'27	1°09'51
max. Earth dist.	-2929 Nov 11 j 07:10	24° $\underline{\text{A}}$ 48'03	32.62229 AU	max. Earth dist.	-2921 Nov 27 j 17:20	10° M 58'39	34.31049 AU
retrograde	-2928 Feb 21 j 10:48	27° $\underline{\text{A}}$ 08'02		retrograde	-2920 Mar 08 j 02:34	13° M 08'09	
min. Earth dist.	-2928 May 09 j 15:46	25° $\underline{\text{A}}$ 51'47	30.72808 AU	min. Earth dist.	-2920 May 25 j 18:44	11° M 55'14	32.42598 AU
opposition	-2928 May 11 j 14:13	25° $\underline{\text{A}}$ 48'48	5°55'57	opposition	-2920 May 28 j 09:13	11° M 51'23	0°55'55
direct	-2928 Jul 30 j 14:54	24° $\underline{\text{A}}$ 29'41		direct	-2920 Aug 16 j 14:13	10° M 35'25	
conjunction	-2928 Nov 10 j 17:55	26° $\underline{\text{A}}$ 51'33	5°16'24	conjunction	-2920 Nov 26 j 06:29	12° M 46'36	0°35'52
minimum elong	-2928 Nov 10 j 18:08	26° $\underline{\text{A}}$ 51'34	5°16'21	minimum elong	-2920 Nov 26 j 06:31	12° M 46'36	0°35'48
max. Earth dist.	-2928 Nov 12 j 17:37	26° $\underline{\text{A}}$ 55'52	32.81662 AU	max. Earth dist.	-2920 Nov 28 j 20:39	12° M 51'52	34.54379 AU
retrograde	-2927 Feb 22 j 17:40	29° $\underline{\text{A}}$ 14'27		retrograde	-2919 Mar 06 j 07:58	15° M	
min. Earth dist.	-2927 May 12 j 00:51	27° $\underline{\text{A}}$ 58'40	30.92286 AU	retrograde	-2919 Mar 10 j 05:11	15° M 00'13	
opposition	-2927 May 14 j 01:23	27° $\underline{\text{A}}$ 55'34	5°17'44	retrograde	-2919 Mar 14 j 01:53	15° R M	
direct	-2927 Aug 02 j 04:36	26° $\underline{\text{A}}$ 36'53		min. Earth dist.	-2919 May 27 j 21:59	13° M 47'43	32.66143 AU
conjunction	-2927 Nov 13 j 00:57	28° $\underline{\text{A}}$ 57'23	4°40'39	opposition	-2919 May 30 j 14:22	13° M 43'47	0°19'58
minimum elong	-2927 Nov 13 j 01:09	28° $\underline{\text{A}}$ 57'24	4°40'37	direct	-2919 Aug 18 j 19:31	12° M 28'14	
max. Earth dist.	-2927 Nov 15 j 01:45	29° $\underline{\text{A}}$ 01'46	33.01589 AU	conjunction	-2919 Nov 28 j 08:15	14° M 38'12	0°02'18
retrograde	-2927 Dec 13 j 02:03	0° M		minimum elong	-2919 Nov 28 j 08:14	14° M 38'12	0°02'15
retrograde	-2926 Feb 25 j 01:16	1° M 19'07		behind sun begin	-2919 Nov 28 j 01:53	14° M 37'41	
min. Earth dist.	-2926 May 14 j 08:45	0° M 03'47	31.12275 AU	behind sun end	-2919 Nov 28 j 14:36	14° M 38'42	
opposition	-2926 May 16 j 11:42	0° M 00'33	4°39'35	max. Earth dist.	-2919 Dec 01 j 01:01	14° M 43'39	34.78154 AU
direct	-2926 May 16 j 20:20	30° R $\underline{\text{A}}$		retrograde	-2919 Dec 09 j 04:11	15° M	
direct	-2926 Aug 04 j 14:29	28° $\underline{\text{A}}$ 42'16		desc. node	-2919 Dec 22 j 21:53	15° M 26'42	
conjunction	-2926 Nov 15 j 07:26	1° M 01'23	4°04'59	retrograde	-2918 Mar 12 j 04:56	16° M 50'45	
minimum elong	-2926 Nov 15 j 07:36	1° M 01'24	4°04'56	min. Earth dist.	-2918 May 30 j 01:14	15° M 38'39	32.90103 AU
max. Earth dist.	-2926 Nov 17 j 11:02	1° M 06'00	33.21979 AU	opposition	-2918 Jun 01 j 18:39	15° M 34'40	0°-15'-27
retrograde	-2925 Feb 27 j 04:40	3° M 21'56		direct	-2918 Jun 26 j 11:05	15° R M	
min. Earth dist.	-2925 May 16 j 17:11	2° M 06'58	31.32719 AU	direct	-2918 Aug 21 j 02:08	14° M 19'32	
opposition	-2925 May 18 j 21:16	2° M 03'41	4°01'36	retrograde	-2918 Oct 12 j 20:34	15° M	
direct	-2925 Aug 07 j 01:34	0° M 45'48		conjunction	-2918 Nov 30 j 09:15	16° M 28'19	0°-30'-55
conjunction	-2925 Nov 17 j 12:57	3° M 03'31	3°29'28	minimum elong	-2918 Nov 30 j 09:14	16° M 28'19	0°31'01
minimum elong	-2925 Nov 17 j 13:06	3° M 03'32	3°29'26	max. Earth dist.	-2918 Dec 03 j 02:28	16° M 33'46	35.02291 AU
max. Earth dist.	-2925 Nov 19 j 17:19	3° M 08'10	33.42806 AU	retrograde	-2917 Mar 14 j 06:58	18° M 39'49	
retrograde	-2924 Feb 29 j 10:26	5° M 22'53		min. Earth dist.	-2917 Jun 01 j 02:38	17° M 28'12	33.14416 AU
min. Earth dist.	-2924 May 17 j 23:00	4° M 08'22	31.53640 AU	opposition	-2917 Jun 03 j 22:21	17° M 24'06	0°-50'-22
opposition	-2924 May 20 j 05:57	4° M 04'55	3°23'49	direct	-2917 Aug 23 j 05:17	16° M 09'23	
direct	-2924 Aug 08 j 09:32	2° M 47'24		conjunction	-2917 Dec 02 j 09:47	18° M 17'00	-1°-3'-36
conjunction	-2924 Nov 18 j 17:53	5° M 03'46	2°54'09	minimum elong	-2917 Dec 02 j 09:44	18° M 17'00	1°03'40
minimum elong	-2924 Nov 18 j 18:00	5° M 03'46	2°54'06	max. Earth dist.	-2917 Dec 05 j 05:18	18° M 22'36	35.26708 AU
max. Earth dist.	-2924 Nov 21 j 01:07	5° M 08'36	33.64095 AU	retrograde	-2916 Mar 15 j 06:01	20° M 27'30	
retrograde	-2923 Mar 02 j 14:14	7° M 21'56		min. Earth dist.	-2916 Jun 02 j 05:40	19° M 16'13	33.38986 AU
min. Earth dist.	-2923 May 20 j 06:10	6° M 07'44	31.75070 AU	opposition	-2916 Jun 05 j 01:32	19° M 12'08	-1°-24'-43
opposition	-2923 May 22 j 14:03	6° M 04'15	2°46'19	direct	-2916 Aug 24 j 08:50	17° M 57'50	
direct	-2923 Aug 10 j 17:18	4° M 47'06		conjunction	-2916 Dec 03 j 09:51	20° M 04'19	-1°-35'-45
conjunction	-2923 Nov 20 j 22:00	7° M 02'07	2°19'05	minimum elong	-2916 Dec 03 j 09:47	20° M 04'19	1°35'51
minimum elong	-2923 Nov 20 j 22:05	7° M 02'07	2°19'02	max. Earth dist.	-2916 Dec 06 j 05:38	20° M 09'54	35.51340 AU
max. Earth dist.	-2923 Nov 23 j 06:38	7° M 07'02	33.85893 AU	retrograde	-2915 Mar 17 j 07:23	22° M 13'48	
retrograde	-2922 Mar 04 j 19:20	9° M 19'07		min. Earth dist.	-2915 Jun 04 j 06:08	21° M 02'57	33.63750 AU
min. Earth dist.	-2922 May 22 j 10:15	8° M 05'22	31.97035 AU	opposition	-2915 Jun 07 j 04:00	20° M 58'47	-1°-58'-29
opposition	-2922 May 24 j 21:10	8° M 01'43	2°09'08	direct	-2915 Aug 26 j 10:16	19° M 44'52	
direct	-2922 Aug 13 j 01:20	6° M 44'57		conjunction	-2915 Dec 05 j 09:22	21° M 50'15	-2°-7'-23
conjunction	-2922 Nov 23 j 01:30	8° M 58'39	1°44'19	minimum elong	-2915 Dec 05 j 09:18	21° M 50'15	2°07'28
minimum elong	-2922 Nov 23 j 01:34	8° M 58'39	1°44'15	max. Earth dist.	-2915 Dec 08 j 06:33	21° M 55'54	35.76098 AU
max. Earth dist.	-2922 Nov 25 j 12:21	9° M 03'43	34.08203 AU	retrograde	-2914 Mar 19 j 08:07	23° M 58'45	
retrograde	-2921 Mar 07 j 00:18	11° M 14'30		min. Earth dist.	-2914 Jun 06 j 08:04	22° M 48'12	33.88636 AU
				opposition	-2914 Jun 09 j 06:00	22° M 44'03	-2°-31'-39
				direct	-2914 Aug 28 j 10:28	21° M 30'32	

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Attention, astronomical year style is used: The year -2914 in astronomical counting style is the year 2915 BCE in historical counting style.

conjunction	-2914 Dec 07 j 08:32	23°M.34'49	-2°-38'-28	direct	-2906 Sep 11 j 07:50	4°A.46'21	
minimum elong	-2914 Dec 07 j 08:26	23°M.34'48	2°38'34				
max. Earth dist.	-2914 Dec 10 j 06:31	23°M.40'29	36.00943 AU	conjunction	-2906 Dec 20 j 05:43	6°A.42'41	-6°-25'-36
retrograde	-2913 Mar 21 j 06:46	25°M.42'18		minimum elong	-2906 Dec 20 j 05:31	6°A.42'40	6°25'42
min. Earth dist.	-2913 Jun 08 j 07:55	24°M.32'08	34.13587 AU	max. Earth dist.	-2906 Dec 23 j 10:18	6°A.48'32	38.03646 AU
opposition	-2913 Jun 11 j 07:05	24°M.27'56	-3°-4'-12	retrograde	-2905 Apr 03 j 05:25	8°A.42'54	
direct	-2913 Aug 30 j 13:37	23°M.14'45		min. Earth dist.	-2905 Jun 21 j 14:06	7°A.35'20	36.17932 AU
				opposition	-2905 Jun 24 j 20:04	7°A.30'55	-7°00'-40
conjunction	-2913 Dec 09 j 06:57	25°M.17'58	-3°-8'-59	direct	-2905 Sep 13 j 03:43	6°A.20'27	
minimum elong	-2913 Dec 09 j 06:51	25°M.17'57	3°09'04				
max. Earth dist.	-2913 Dec 12 j 05:11	25°M.23'36	36.25835 AU	conjunction	-2905 Dec 22 j 00:29	8°A.15'55	-6°-51'-10
retrograde	-2912 Mar 22 j 06:10	27°M.24'28		minimum elong	-2905 Dec 22 j 00:18	8°A.15'54	6°51'16
min. Earth dist.	-2912 Jun 09 j 07:49	26°M.14'37	34.38628 AU	max. Earth dist.	-2905 Dec 25 j 06:32	8°A.21'50	38.29451 AU
opposition	-2912 Jun 12 j 07:50	26°M.10'23	-3°-36'-6	retrograde	-2904 Apr 03 j 22:11	10°A.15'20	
direct	-2912 Aug 31 j 14:41	24°M.57'33		min. Earth dist.	-2904 Jun 22 j 10:50	9°A.08'03	36.43898 AU
				opposition	-2904 Jun 25 j 16:26	9°A.03'39	-7°-27'-9
conjunction	-2912 Dec 10 j 04:50	26°M.59'41	-3°-38'-55	direct	-2904 Sep 14 j 01:43	7°A.53'32	
minimum elong	-2912 Dec 10 j 04:42	26°M.59'41	3°39'01				
max. Earth dist.	-2912 Dec 13 j 04:53	27°M.05'26	36.50811 AU	conjunction	-2904 Dec 22 j 18:43	9°A.48'09	-7°-16'-7
retrograde	-2911 Mar 24 j 02:21	29°M.05'13		minimum elong	-2904 Dec 22 j 18:30	9°A.48'08	7°16'13
min. Earth dist.	-2911 Jun 11 j 07:34	27°M.55'39	34.63765 AU	max. Earth dist.	-2904 Dec 26 j 00:05	9°A.53'59	38.55193 AU
opposition	-2911 Jun 14 j 07:54	27°M.51'25	-4°-7'-22	retrograde	-2903 Apr 05 j 15:27	11°A.46'47	
direct	-2911 Sep 02 j 17:08	26°M.38'54		min. Earth dist.	-2903 Jun 24 j 05:40	10°A.39'50	36.69777 AU
				opposition	-2903 Jun 27 j 12:22	10°A.35'24	-7°-52'-57
conjunction	-2911 Dec 12 j 02:09	28°M.40'00	-4°-8'-15	direct	-2903 Sep 15 j 22:44	9°A.25'36	
minimum elong	-2911 Dec 12 j 02:01	28°M.39'59	4°08'20				
max. Earth dist.	-2911 Dec 15 j 02:12	28°M.45'42	36.75897 AU	conjunction	-2903 Dec 24 j 12:50	11°A.19'23	-7°-40'-27
retrograde	-2910 Jan 26 j 20:58	0°A.0'		minimum elong	-2903 Dec 24 j 12:38	11°A.19'22	7°40'33
min. Earth dist.	-2910 Mar 25 j 22:55	0°A.44'34		max. Earth dist.	-2903 Dec 27 j 19:14	11°A.25'15	38.80791 AU
opposition	-2910 May 26 j 00:48	30°R.M.		retrograde	-2902 Apr 07 j 08:35	13°A.17'14	
direct	-2910 Jun 13 j 05:02	29°M.35'22	34.89063 AU	min. Earth dist.	-2902 Jun 26 j 02:09	12°A.10'29	36.95489 AU
	-2910 Jun 16 j 07:12	29°M.31'03	-4°-37'-58	opposition	-2902 Jun 29 j 07:47	12°A.06'08	-8°-18'-6
conjunction	-2910 Sep 04 j 16:39	28°M.18'52		direct	-2902 Sep 17 j 18:49	10°A.56'38	
minimum elong	-2910 Dec 03 j 20:53	0°A.0'					
max. Earth dist.	-2910 Dec 13 j 23:03	0°A.18'57	-4°-36'-59	conjunction	-2902 Dec 26 j 06:34	12°A.49'36	-8°-4'-10
retrograde	-2910 Dec 13 j 22:54	0°A.18'56	4°37'05	minimum elong	-2902 Dec 26 j 06:22	12°A.49'35	8°04'15
min. Earth dist.	-2910 Dec 17 j 01:06	0°A.24'47	37.01136 AU	max. Earth dist.	-2902 Dec 29 j 12:25	12°A.55'23	39.06203 AU
opposition	-2909 Mar 27 j 17:54	2°A.22'37		retrograde	-2901 Apr 09 j 02:35	14°A.46'40	
direct	-2909 Jun 15 j 03:57	1°A.13'40	35.14534 AU	min. Earth dist.	-2901 Jun 27 j 20:17	13°A.40'13	37.20986 AU
	-2909 Jun 18 j 06:04	1°A.09'22	-5°-7'-53	opposition	-2901 Jul 01 j 02:44	13°A.35'50	-8°-42'-35
conjunction	-2909 Aug 24 j 07:59	30°R.M.		direct	-2901 Sep 19 j 13:32	12°A.26'37	
minimum elong	-2909 Sep 06 j 16:33	29°M.57'32					
max. Earth dist.	-2909 Sep 19 j 18:36	0°A.0'		conjunction	-2901 Dec 27 j 23:42	14°A.18'45	-8°-27'-16
retrograde	-2909 Dec 15 j 19:18	1°A.56'37	-5°-5'-5	minimum elong	-2901 Dec 27 j 23:29	14°A.18'44	8°27'23
min. Earth dist.	-2909 Dec 15 j 19:09	1°A.56'36	5°05'10	max. Earth dist.	-2901 Dec 31 j 05:27	14°A.24'29	39.31380 AU
opposition	-2909 Dec 18 j 21:36	2°A.02'25	37.26555 AU	retrograde	-2900 Apr 09 j 21:17	16°A.15'03	
direct	-2908 Mar 28 j 15:02	3°A.59'23		min. Earth dist.	-2900 Jun 28 j 15:34	15°A.08'47	37.46274 AU
	-2908 Jun 16 j 00:12	2°A.50'50	35.40187 AU	opposition	-2900 Jul 01 j 21:28	15°A.04'27	-9°-6'-24
conjunction	-2908 Jun 19 j 04:19	2°A.46'27	-5°-37'-7	direct	-2900 Sep 20 j 07:08	13°A.55'30	
minimum elong	-2908 Sep 07 j 13:40	1°A.34'57					
max. Earth dist.	-2908 Dec 16 j 15:11	3°A.33'05	-5°-32'-33	conjunction	-2900 Dec 28 j 16:39	15°A.46'50	-8°-49'-46
retrograde	-2908 Dec 16 j 15:00	3°A.33'04	5°32'39	minimum elong	-2900 Dec 28 j 16:26	15°A.46'49	8°49'52
min. Earth dist.	-2908 Dec 19 j 18:43	3°A.38'56	37.52133 AU				
opposition	-2907 Mar 30 j 12:05	5°A.34'59					
direct	-2907 Jun 17 j 21:57	4°A.26'44	35.66012 AU				
	-2907 Jun 21 j 02:10	4°A.22'21	-6°-5'-40				
conjunction	-2907 Sep 09 j 10:09	3°A.11'12					
conjunction	-2907 Dec 18 j 10:42	5°A.08'25	-5°-59'-23				
minimum elong	-2907 Dec 18 j 10:31	5°A.08'24	5°59'29				
max. Earth dist.	-2907 Dec 21 j 15:20	5°A.14'19	37.77859 AU				
retrograde	-2906 Apr 01 j 08:28	7°A.09'28					
min. Earth dist.	-2906 Jun 19 j 18:08	6°A.01'34	35.91942 AU				
opposition	-2906 Jun 22 j 23:21	5°A.57'09	-6°-33'-31				