

	5600 Feb 10 10:52	0°♂	conjunction	5605 May 20 08:27	1°♂44'06 -0°53'49
retrograde	5600 Apr 19 15:21	6°♂35'11	minimum elong	5605 May 20 08:28	1°♂44'06 0°53'49
opposition	5600 Jun 19 13:27	1°♂42'20 0°58'48	max. Earth dist.	5605 May 21 03:22	1°♂55'38 5.92193 AU
min. Earth dist.	5600 Jun 20 18:26	1°♂33'05 4.46530 AU	morning rise	5605 Jun 02 16:51	4°♂59'03
	5600 Jul 03 04:22	30°♂♂	retrograde	5605 Oct 13 04:13	25°♂50'20
direct	5600 Aug 21 08:19	26°♂40'51	opposition	5605 Dec 11 17:58	20°♂47'56 -1°10'08
	5600 Oct 09 04:11	0°♂	min. Earth dist.	5605 Dec 10 17:13	20°♂56'18 3.92380 AU
evening set	5600 Dec 24 23:16	14°♂06'19	direct	5606 Feb 07 14:40	15°♂53'24
max. Earth dist.	5601 Jan 04 16:36	16°♂26'37 6.42643 AU		5606 May 20 06:19	0°♂
			evening set	5606 Jun 14 00:09	5°♂48'13
conjunction	5601 Jan 06 18:19	16°♂53'50 0°28'56			
minimum elong	5601 Jan 06 18:21	16°♂53'50 0°28'57	conjunction	5606 Jun 27 13:23	9°♂03'52 -0°34'41
morning rise	5601 Jan 19 11:31	19°♂40'35	minimum elong	5606 Jun 27 13:25	9°♂03'53 0°34'41
	5601 Mar 11 21:18	0°♂	max. Earth dist.	5606 Jun 29 15:22	9°♂33'59 5.95093 AU
retrograde	5601 May 20 23:11	6°♂45'37	morning rise	5606 Jul 11 05:05	12°♂20'41
opposition	5601 Jul 20 21:34	1°♂53'23 0°22'29		5606 Oct 08 12:48	0°♂
min. Earth dist.	5601 Jul 22 12:19	1°♂41'02 4.37094 AU	retrograde	5606 Nov 19 12:01	2°♂46'03
	5601 Aug 05 02:06	30°♂♂		5606 Dec 31 08:46	30°♂♂
direct	5601 Sep 21 08:31	26°♂53'12	min. Earth dist.	5607 Jan 16 10:57	27°♂53'50 4.00213 AU
	5601 Nov 06 22:42	0°♂	opposition	5607 Jan 17 23:15	27°♂41'28 -0°28'38
evening set	5602 Jan 24 18:45	14°♂46'11	direct	5607 Mar 17 01:57	22°♂44'36
	5602 Jan 25 19:29	15°♂		5607 May 25 23:14	0°♂
max. Earth dist.	5602 Feb 04 06:15	17°♂07'25 6.30133 AU	evening set	5607 Jul 21 14:44	12°♂08'36
				5607 Aug 02 20:50	15°♂
conjunction	5602 Feb 06 12:14	17°♂37'50 0°00'09			
minimum elong	5602 Feb 06 12:13	17°♂37'50 0°00'10	conjunction	5607 Aug 04 07:47	15°♂20'24 -0°02'28
behind sun begin	5602 Feb 06 04:19	17°♂33'24	minimum elong	5607 Aug 04 07:47	15°♂20'23 0°02'29
behind sun end	5602 Feb 06 20:08	17°♂42'16	behind sun begin	5607 Aug 03 23:23	15°♂15'31
desc. node	5602 Feb 08 07:54	18°♂02'28	behind sun end	5607 Aug 04 16:10	15°♂25'16
morning rise	5602 Feb 19 04:33	20°♂29'14	max. Earth dist.	5607 Aug 06 19:24	15°♂55'10 6.07031 AU
	5602 Apr 05 08:06	0°♂	morning rise	5607 Aug 18 02:08	18°♂32'31
retrograde	5602 Jun 23 08:15	8°♂28'31	asc. node	5607 Sep 01 16:42	21°♂52'38
opposition	5602 Aug 23 03:37	3°♂35'23 -0°22'30		5607 Oct 10 17:19	0°♂
min. Earth dist.	5602 Aug 24 15:47	3°♂23'47 4.22240 AU	retrograde	5607 Dec 24 05:33	7°♂51'53
	5602 Sep 23 11:10	30°♂♂	min. Earth dist.	5608 Feb 20 10:32	2°♂59'51 4.14881 AU
direct	5602 Oct 23 13:07	28°♂37'17	opposition	5608 Feb 21 22:10	2°♂47'46 0°21'17
	5602 Nov 22 12:14	0°♂		5608 Mar 14 22:00	30°♂♂
evening set	5603 Feb 26 01:52	17°♂13'06	direct	5608 Apr 21 00:20	27°♂48'12
max. Earth dist.	5603 Mar 09 00:42	19°♂46'11 6.14116 AU		5608 May 28 10:48	0°♂
			evening set	5608 Aug 25 14:18	16°♂26'31
conjunction	5603 Mar 10 20:05	20°♂11'33 -0°30'00			
minimum elong	5603 Mar 10 20:03	20°♂11'32 0°30'00	conjunction	5608 Sep 08 05:42	19°♂30'20 0°29'18
morning rise	5603 Mar 23 14:41	23°♂10'30	minimum elong	5608 Sep 08 05:41	19°♂30'19 0°29'18
	5603 Apr 22 22:14	0°♂	max. Earth dist.	5608 Sep 10 03:27	19°♂56'03 6.23117 AU
retrograde	5603 Jul 29 09:55	12°♂22'39	morning rise	5608 Sep 21 20:47	22°♂33'38
opposition	5603 Sep 27 18:31	7°♂27'17 -1°03'29		5608 Oct 26 15:53	0°♂
min. Earth dist.	5603 Sep 28 17:07	7°♂19'55 4.06258 AU	retrograde	5609 Jan 24 12:46	10°♂40'01
direct	5603 Nov 26 18:23	2°♂31'33	opposition	5609 Mar 25 12:33	5°♂38'39 1°00'40
evening set	5604 Mar 31 12:21	21°♂54'09	min. Earth dist.	5609 Mar 24 14:42	5°♂45'57 4.30863 AU
			direct	5609 May 25 00:19	0°♂37'12
conjunction	5604 Apr 13 10:46	25°♂00'44 -0°51'20	evening set	5609 Sep 28 09:46	18°♂32'51
minimum elong	5604 Apr 13 10:44	25°♂00'43 0°51'20			
max. Earth dist.	5604 Apr 12 18:30	24°♂50'56 5.99616 AU	conjunction	5609 Oct 11 19:55	21°♂28'17 0°50'14
morning rise	5604 Apr 26 10:51	28°♂08'29	minimum elong	5609 Oct 11 19:53	21°♂28'17 0°50'15
	5604 May 04 06:03	0°♂	max. Earth dist.	5609 Oct 12 16:23	21°♂39'28 6.37742 AU
	5604 Jul 18 17:24	15°♂	morning rise	5609 Oct 25 04:12	24°♂22'38
retrograde	5604 Sep 04 12:30	18°♂29'08		5609 Nov 20 21:35	0°♂
	5604 Oct 22 23:59	15°♂♂	retrograde	5610 Feb 23 23:31	11°♂32'40
opposition	5604 Nov 03 10:10	13°♂30'25 -1°23'26	opposition	5610 Apr 25 09:29	6°♂34'54 1°19'57
min. Earth dist.	5604 Nov 03 08:54	13°♂30'50 3.94743 AU	min. Earth dist.	5610 Apr 25 05:14	6°♂36'18 4.43136 AU
direct	5604 Dec 31 23:48	8°♂36'22	direct	5610 Jun 26 02:02	1°♂32'42
	5605 Mar 06 12:38	15°♂		5610 Oct 11 04:56	15°♂
evening set	5605 May 07 03:01	28°♂30'45	evening set	5610 Oct 30 06:38	18°♂59'47
	5605 May 13 05:50	0°♂			
			conjunction	5610 Nov 12 10:22	21°♂49'06 0°56'08

minimum elong	5610 Nov 12 10:23	21° \mathbb{M} 49'06	0°56'09		5616 Dec 12 11:54	15° \mathbb{R} \mathbb{B}	
max. Earth dist.	5610 Nov 12 00:49	21° \mathbb{M} 43'58	6.46766 AU	direct	5617 Jan 06 06:53	13° \mathbb{B} 58'13	
morning rise	5610 Nov 25 11:41	24° \mathbb{M} 37'12			5617 Jan 30 23:45	15° \mathbb{B}	
	5610 Dec 21 09:18	0° \mathbb{A}			5617 Apr 26 02:57	0° \mathbb{II}	
retrograde	5611 Mar 25 19:08	11° \mathbb{A} 17'44		evening set	5617 May 12 10:15	3° \mathbb{II} 54'02	
opposition	5611 May 25 12:07	6° \mathbb{A} 23'09	1°17'14				
min. Earth dist.	5611 May 26 03:54	6° \mathbb{A} 18'04	4.48462 AU	conjunction	5617 May 25 16:56	7° \mathbb{II} 07'56	-0°52'20
direct	5611 Jul 27 01:44	1° \mathbb{A} 21'01		minimum elong	5617 May 25 16:57	7° \mathbb{II} 07'57	0°52'21
evening set	5611 Nov 29 21:43	18° \mathbb{A} 38'31		max. Earth dist.	5617 May 26 18:47	7° \mathbb{II} 23'42	5.92195 AU
max. Earth dist.	5611 Dec 11 08:31	21° \mathbb{A} 06'09	6.47973 AU	morning rise	5617 Jun 08 02:16	10° \mathbb{II} 23'21	
					5617 Sep 21 01:57	0° \mathbb{B}	
conjunction	5611 Dec 12 20:05	21° \mathbb{A} 25'19	0°46'58	retrograde	5617 Oct 18 13:31	1° \mathbb{B} 13'14	
minimum elong	5611 Dec 12 20:06	21° \mathbb{A} 25'19	0°47'00		5617 Nov 14 20:01	30° \mathbb{R} \mathbb{II}	
morning rise	5611 Dec 25 16:06	24° \mathbb{A} 11'01		min. Earth dist.	5617 Dec 15 23:25	26° \mathbb{II} 19'24	3.93210 AU
	5612 Jan 22 16:05	0° \mathbb{B}		opposition	5617 Dec 17 02:00	26° \mathbb{II} 10'24	-1°05'37
retrograde	5612 Apr 23 22:31	10° \mathbb{B} 51'59		direct	5618 Feb 12 22:57	21° \mathbb{II} 15'39	
opposition	5612 Jun 23 20:33	5° \mathbb{B} 59'17	0°54'31		5618 Apr 30 16:22	0° \mathbb{B}	
min. Earth dist.	5612 Jun 25 03:42	5° \mathbb{B} 49'20	4.45549 AU	evening set	5618 Jun 19 07:40	11° \mathbb{B} 06'25	
direct	5612 Aug 25 15:16	0° \mathbb{B} 57'52					
evening set	5612 Dec 29 05:20	18° \mathbb{B} 26'25		conjunction	5618 Jul 02 21:35	14° \mathbb{B} 21'40	-0°30'38
max. Earth dist.	5613 Jan 08 21:57	20° \mathbb{B} 46'48	6.41108 AU	minimum elong	5618 Jul 02 21:36	14° \mathbb{B} 21'41	0°30'39
				max. Earth dist.	5618 Jul 05 02:15	14° \mathbb{B} 53'15	5.96637 AU
conjunction	5613 Jan 11 00:13	21° \mathbb{B} 14'25	0°25'15	morning rise	5618 Jul 16 14:02	17° \mathbb{B} 38'03	
minimum elong	5613 Jan 11 00:14	21° \mathbb{B} 14'25	0°25'16		5618 Sep 11 03:33	0° \mathbb{Q}	
morning rise	5613 Jan 23 17:00	24° \mathbb{B} 01'38		retrograde	5618 Nov 24 10:36	7° \mathbb{Q} 54'27	
	5613 Feb 20 21:29	0° \mathbb{A}		min. Earth dist.	5619 Jan 21 09:40	3° \mathbb{Q} 02'39	4.02292 AU
retrograde	5613 May 25 11:17	11° \mathbb{A} 13'12		opposition	5619 Jan 22 23:26	2° \mathbb{Q} 49'48	-0°21'39
opposition	5613 Jul 25 10:16	6° \mathbb{A} 20'57	0°16'25		5619 Feb 14 04:23	30° \mathbb{R} \mathbb{B}	
min. Earth dist.	5613 Jul 27 01:03	6° \mathbb{A} 08'36	4.35097 AU	direct	5619 Mar 22 03:55	27° \mathbb{B} 52'35	
direct	5613 Sep 25 17:49	1° \mathbb{A} 21'03			5619 Apr 27 07:10	0° \mathbb{Q}	
desc. node	5613 Dec 18 15:05	10° \mathbb{A} 32'06		asc. node	5619 Jul 12 23:49	14° \mathbb{Q} 01'16	
	5614 Jan 09 12:40	15° \mathbb{A}			5619 Jul 17 07:20	15° \mathbb{Q}	
evening set	5614 Jan 29 05:19	19° \mathbb{A} 19'57		evening set	5619 Jul 26 16:58	17° \mathbb{Q} 09'26	
max. Earth dist.	5614 Feb 08 16:30	21° \mathbb{A} 41'48	6.27822 AU				
				conjunction	5619 Aug 09 09:58	20° \mathbb{Q} 20'06	0°02'22
conjunction	5614 Feb 10 22:35	22° \mathbb{A} 12'28	-0°04'19	minimum elong	5619 Aug 09 09:58	20° \mathbb{Q} 20'06	0°02'22
minimum elong	5614 Feb 10 22:36	22° \mathbb{A} 12'28	0°04'17	behind sun begin	5619 Aug 09 01:35	20° \mathbb{Q} 15'15	
behind sun begin	5614 Feb 10 14:45	22° \mathbb{A} 08'03		behind sun end	5619 Aug 09 18:20	20° \mathbb{Q} 24'56	
behind sun end	5614 Feb 11 06:26	22° \mathbb{A} 16'54		max. Earth dist.	5619 Aug 11 19:29	20° \mathbb{Q} 53'28	6.09435 AU
morning rise	5614 Feb 23 15:12	25° \mathbb{A} 04'53		morning rise	5619 Aug 23 04:08	23° \mathbb{Q} 31'00	
	5614 Mar 17 21:44	0° \mathbb{H}			5619 Sep 21 06:31	0° \mathbb{H}	
retrograde	5614 Jun 28 07:45	13° \mathbb{H} 14'20		retrograde	5619 Dec 28 20:12	12° \mathbb{H} 39'11	
opposition	5614 Aug 28 00:41	8° \mathbb{H} 20'59	-0°28'55	min. Earth dist.	5620 Feb 25 04:03	7° \mathbb{H} 46'38	4.17349 AU
min. Earth dist.	5614 Aug 29 12:06	8° \mathbb{H} 09'36	4.19770 AU	opposition	5620 Feb 26 13:17	7° \mathbb{H} 35'23	0°27'40
direct	5614 Oct 28 06:23	3° \mathbb{H} 23'13		direct	5620 Apr 25 21:04	2° \mathbb{H} 35'29	
evening set	5615 Mar 02 19:22	22° \mathbb{H} 06'27		evening set	5620 Aug 30 08:47	21° \mathbb{H} 06'47	
max. Earth dist.	5615 Mar 13 22:11	24° \mathbb{H} 42'40	6.11721 AU				
				conjunction	5620 Sep 12 23:43	24° \mathbb{H} 09'22	0°32'59
conjunction	5615 Mar 15 14:07	25° \mathbb{H} 06'07	-0°33'49	minimum elong	5620 Sep 12 23:42	24° \mathbb{H} 09'21	0°32'58
minimum elong	5615 Mar 15 14:05	25° \mathbb{H} 06'06	0°33'49	max. Earth dist.	5620 Sep 14 19:12	24° \mathbb{H} 33'41	6.25451 AU
morning rise	5615 Mar 28 09:15	28° \mathbb{H} 06'21		morning rise	5620 Sep 26 13:52	27° \mathbb{H} 11'17	
	5615 Apr 05 12:52	0° \mathbb{Y}			5620 Oct 09 09:31	0° \mathbb{Q}	
retrograde	5615 Aug 03 17:00	17° \mathbb{Y} 29'36		retrograde	5621 Jan 28 18:33	15° \mathbb{Q} 08'26	
opposition	5615 Oct 03 00:04	12° \mathbb{Y} 33'52	-1°07'59	opposition	5621 Mar 29 20:10	10° \mathbb{Q} 07'37	1°04'36
min. Earth dist.	5615 Oct 03 19:06	12° \mathbb{Y} 27'39	4.04189 AU	min. Earth dist.	5621 Mar 29 00:04	10° \mathbb{Q} 14'18	4.32891 AU
direct	5615 Dec 01 17:33	7° \mathbb{Y} 38'34		direct	5621 May 29 11:02	5° \mathbb{Q} 06'03	
evening set	5616 Apr 05 14:02	27° \mathbb{Y} 07'08		evening set	5621 Oct 02 21:17	22° \mathbb{Q} 56'56	
	5616 Apr 17 12:41	0° \mathbb{B}					
				conjunction	5621 Oct 16 06:27	25° \mathbb{Q} 51'23	0°51'58
conjunction	5616 Apr 18 13:07	0° \mathbb{B} 14'47	-0°53'00	minimum elong	5621 Oct 16 06:26	25° \mathbb{Q} 51'22	0°51'58
minimum elong	5616 Apr 18 13:06	0° \mathbb{B} 14'46	0°53'01	max. Earth dist.	5621 Oct 16 21:09	25° \mathbb{Q} 59'23	6.39317 AU
max. Earth dist.	5616 Apr 18 01:17	0° \mathbb{B} 07'37	5.98075 AU	morning rise	5621 Oct 29 13:53	28° \mathbb{Q} 44'44	
morning rise	5616 May 01 14:20	3° \mathbb{B} 23'43			5621 Nov 04 09:54	0° \mathbb{M}	
	5616 Jun 22 12:58	15° \mathbb{B}			5622 Feb 05 04:42	15° \mathbb{M}	
retrograde	5616 Sep 09 23:13	23° \mathbb{B} 51'26		retrograde	5622 Feb 28 04:16	15° \mathbb{M} 49'29	
opposition	5616 Nov 08 20:21	18° \mathbb{B} 52'09	-1°23'39		5622 Mar 22 23:09	15° \mathbb{R} \mathbb{M}	
min. Earth dist.	5616 Nov 08 14:50	18° \mathbb{B} 54'00	3.93926 AU	opposition	5622 Apr 29 13:40	10° \mathbb{M} 52'17	1°20'52

min. Earth dist.	5622 Apr 29 13:21	10° \mathbb{M} 52'23	4.44175 AU	conjunction	5628 Apr 23 14:44	5° \mathcal{B} 26'00	-0°54'13
direct	5622 Jun 30 10:19	5° \mathbb{M} 50'03		minimum elong	5628 Apr 23 14:43	5° \mathcal{B} 26'00	0°54'14
	5622 Sep 23 16:54	15° \mathbb{M}		max. Earth dist.	5628 Apr 23 09:08	5° \mathcal{B} 22'37	5.96911 AU
evening set	5622 Nov 03 13:10	23° \mathbb{M} 15'16		morning rise	5628 May 06 16:47	8° \mathcal{B} 35'54	
					5628 Jun 03 00:37	15° \mathcal{B}	
conjunction	5622 Nov 16 16:14	26° \mathbb{M} 04'09	0°55'43	retrograde	5628 Sep 15 09:26	29° \mathcal{B} 08'48	
minimum elong	5622 Nov 16 16:14	26° \mathbb{M} 04'10	0°55'44	opposition	5628 Nov 14 04:07	24° \mathcal{B} 09'00	-1°23'09
max. Earth dist.	5622 Nov 16 02:47	25° \mathbb{M} 56'56	6.47197 AU	min. Earth dist.	5628 Nov 13 20:08	24° \mathcal{B} 11'40	3.93406 AU
morning rise	5622 Nov 29 16:44	28° \mathbb{M} 51'48		direct	5629 Jan 11 12:25	19° \mathcal{B} 15'03	
	5622 Dec 05 00:58	0° \mathcal{A}			5629 Apr 07 20:38	0° \mathbb{I}	
retrograde	5623 Mar 29 22:09	15° \mathcal{A} 31'29		evening set	5629 May 17 15:28	9° \mathbb{I} 11'22	
opposition	5623 May 29 16:15	10° \mathcal{A} 37'14	1°15'11				
min. Earth dist.	5623 May 30 09:53	10° \mathcal{A} 31'34	4.48294 AU	conjunction	5629 May 30 23:06	12° \mathbb{I} 25'41	-0°50'25
direct	5623 Jul 31 06:00	5° \mathcal{A} 35'11		minimum elong	5629 May 30 23:08	12° \mathbb{I} 25'42	0°50'27
evening set	5623 Dec 04 02:50	22° \mathcal{A} 53'55		max. Earth dist.	5629 Jun 01 04:26	12° \mathbb{I} 43'33	5.92345 AU
max. Earth dist.	5623 Dec 15 11:25	25° \mathcal{A} 20'38	6.47230 AU	morning rise	5629 Jun 13 09:43	15° \mathbb{I} 41'34	
					5629 Aug 18 07:55	0° \mathcal{E}	
conjunction	5623 Dec 17 00:41	25° \mathcal{A} 40'46	0°44'36	retrograde	5629 Oct 23 17:48	6° \mathcal{E} 29'18	
minimum elong	5623 Dec 17 00:43	25° \mathcal{A} 40'47	0°44'37	min. Earth dist.	5629 Dec 21 01:25	1° \mathcal{E} 36'06	3.94033 AU
morning rise	5623 Dec 29 20:05	28° \mathcal{A} 26'33		opposition	5629 Dec 22 06:57	1° \mathcal{E} 26'05	-1°00'38
	5624 Jan 06 03:06	0° \mathcal{B}			5630 Jan 02 01:00	30° \mathcal{R} \mathbb{I}	
retrograde	5624 Apr 28 06:07	15° \mathcal{B} 10'48		direct	5630 Feb 18 02:45	26° \mathbb{I} 31'03	
opposition	5624 Jun 28 04:09	10° \mathcal{B} 18'19	0°49'58		5630 Apr 05 11:52	0° \mathcal{E}	
min. Earth dist.	5624 Jun 29 13:04	10° \mathcal{B} 07'49	4.44281 AU	evening set	5630 Jun 24 13:02	16° \mathcal{E} 18'13	
direct	5624 Aug 29 22:12	5° \mathcal{B} 17'06					
evening set	5625 Jan 02 12:13	22° \mathcal{B} 49'30		conjunction	5630 Jul 08 03:37	19° \mathcal{E} 33'07	-0°26'25
max. Earth dist.	5625 Jan 13 02:02	25° \mathcal{B} 08'59	6.39407 AU	minimum elong	5630 Jul 08 03:39	19° \mathcal{E} 33'08	0°26'26
				max. Earth dist.	5630 Jul 10 09:17	20° \mathcal{E} 05'11	5.98040 AU
conjunction	5625 Jan 15 06:40	25° \mathcal{B} 38'01	0°21'26	morning rise	5630 Jul 21 20:38	22° \mathcal{E} 49'03	
minimum elong	5625 Jan 15 06:40	25° \mathcal{B} 38'01	0°21'28		5630 Aug 22 05:48	0° \mathcal{Q}	
morning rise	5625 Jan 27 23:27	28° \mathcal{B} 25'52		retrograde	5630 Nov 29 08:42	12° \mathcal{Q} 57'23	
	5625 Feb 04 03:54	0° \approx		min. Earth dist.	5631 Jan 26 08:26	8° \mathcal{Q} 05'17	4.04095 AU
	5625 May 08 04:09	15° \approx		opposition	5631 Jan 27 21:27	7° \mathcal{Q} 52'40	-0°14'38
retrograde	5625 May 30 02:37	15° \approx 44'28		direct	5631 Mar 27 06:03	2° \mathcal{Q} 55'00	
	5625 Jun 21 01:03	15° \mathcal{R} \approx		asc. node	5631 May 23 07:44	7° \mathcal{Q} 54'17	
opposition	5625 Jul 30 00:20	10° \approx 52'08	0°10'13		5631 Jun 29 20:34	15° \mathcal{Q}	
min. Earth dist.	5625 Jul 31 15:02	10° \approx 39'46	4.33067 AU	evening set	5631 Jul 31 18:02	22° \mathcal{Q} 06'04	
direct	5625 Sep 30 04:54	5° \approx 52'26					
desc. node	5625 Oct 28 05:27	7° \approx 03'06		conjunction	5631 Aug 14 11:11	25° \mathcal{Q} 15'50	0°07'02
	5625 Dec 22 12:52	15° \approx		minimum elong	5631 Aug 14 11:10	25° \mathcal{Q} 15'49	0°07'02
evening set	5626 Feb 02 16:26	23° \approx 57'04		behind sun begin	5631 Aug 14 03:27	25° \mathcal{Q} 11'23	
max. Earth dist.	5626 Feb 13 06:15	26° \approx 21'04	6.25633 AU	behind sun end	5631 Aug 14 18:53	25° \mathcal{Q} 20'15	
				max. Earth dist.	5631 Aug 16 20:45	25° \mathcal{Q} 49'04	6.11483 AU
conjunction	5626 Feb 15 09:56	26° \approx 50'30	-0°08'40	morning rise	5631 Aug 28 04:59	28° \mathcal{Q} 25'38	
minimum elong	5626 Feb 15 09:55	26° \approx 50'30	0°08'40		5631 Sep 04 02:52	0° \mathbb{N}	
behind sun begin	5626 Feb 15 02:58	26° \approx 46'33		retrograde	5632 Jan 02 09:38	17° \mathbb{N} 23'59	
behind sun end	5626 Feb 15 16:52	26° \approx 54'26		min. Earth dist.	5632 Feb 29 19:15	12° \mathbb{N} 31'24	4.19440 AU
morning rise	5626 Feb 28 02:33	29° \approx 43'51		opposition	5632 Mar 02 03:28	12° \mathbb{N} 20'32	0°33'49
	5626 Mar 01 07:05	0° \mathcal{H}		direct	5632 Apr 30 14:25	7° \mathbb{N} 20'21	
retrograde	5626 Jul 03 06:23	18° \mathcal{H} 02'49		evening set	5632 Sep 04 03:29	25° \mathbb{N} 46'07	
opposition	5626 Sep 01 22:34	13° \mathcal{H} 09'12	-0°35'10				
min. Earth dist.	5626 Sep 03 08:00	12° \mathcal{H} 58'26	4.17582 AU	conjunction	5632 Sep 17 17:39	28° \mathbb{N} 47'34	0°36'26
direct	5626 Nov 01 22:56	8° \mathcal{H} 11'48		minimum elong	5632 Sep 17 17:37	28° \mathbb{N} 47'34	0°36'27
evening set	5627 Mar 07 13:15	27° \mathcal{H} 01'06		max. Earth dist.	5632 Sep 19 08:05	29° \mathbb{N} 08'59	6.27404 AU
max. Earth dist.	5627 Mar 18 18:47	29° \mathcal{H} 39'40	6.09706 AU		5632 Sep 23 03:43	0° \mathcal{L}	
				morning rise	5632 Oct 01 07:10	1° \mathcal{L} 48'21	
conjunction	5627 Mar 20 08:13	0° \mathcal{Y} 01'45	-0°37'23	retrograde	5633 Feb 02 02:57	19° \mathcal{L} 37'39	
minimum elong	5627 Mar 20 08:11	0° \mathcal{Y} 01'44	0°37'23	min. Earth dist.	5633 Apr 02 11:55	14° \mathcal{L} 42'55	4.34567 AU
	5627 Mar 20 05:14	0° \mathcal{Y}		opposition	5633 Apr 03 04:46	14° \mathcal{L} 37'19	1°08'11
morning rise	5627 Apr 02 04:05	3° \mathcal{Y} 03'08		direct	5633 Jun 03 00:18	9° \mathcal{L} 35'35	
retrograde	5627 Aug 08 22:07	22° \mathcal{Y} 35'48		evening set	5633 Oct 07 09:38	27° \mathcal{L} 22'44	
opposition	5627 Oct 08 04:46	17° \mathcal{Y} 39'32	-1°11'55		5633 Oct 19 12:02	0° \mathbb{M}	
min. Earth dist.	5627 Oct 08 20:19	17° \mathcal{Y} 34'26	4.02520 AU				
direct	5627 Dec 06 18:05	12° \mathcal{Y} 44'26		conjunction	5633 Oct 20 18:09	0° \mathbb{M} 16'21	0°53'25
	5628 Apr 01 00:25	0° \mathcal{B}		minimum elong	5633 Oct 20 18:08	0° \mathbb{M} 16'21	0°53'25
evening set	5628 Apr 10 14:37	2° \mathcal{B} 17'26		max. Earth dist.	5633 Oct 21 06:16	0° \mathbb{M} 22'56	6.40601 AU
				morning rise	5633 Nov 03 00:28	3° \mathbb{M} 08'48	

	5634 Jan 03 07:02	15°♍		direct	5639 Dec 11 15:18	17°♑41'07	
retrograde	5634 Mar 04 08:03	20°♍09'09			5640 Mar 15 03:24	0°♎	
opposition	5634 May 03 19:20	15°♍12'27	1°21'21	evening set	5640 Apr 15 10:58	7°♎17'02	
min. Earth dist.	5634 May 03 20:38	15°♍12'01	4.45019 AU				
	5634 May 05 09:30	15°♍		conjunction	5640 Apr 28 11:45	10°♎26'21	-0°54'58
direct	5634 Jul 04 17:40	10°♍10'17		minimum elong	5640 Apr 28 11:45	10°♎26'21	0°54'59
	5634 Sep 02 08:16	15°♍		max. Earth dist.	5640 Apr 28 08:42	10°♎24'31	5.96093 AU
evening set	5634 Nov 07 21:39	27°♍34'09		morning rise	5640 May 11 14:58	13°♎37'07	
	5634 Nov 19 05:48	0°♊			5640 May 17 09:04	15°♎	
					5640 Jul 29 15:11	0°♐	
conjunction	5634 Nov 20 23:48	0°♊22'35	0°54'59	retrograde	5640 Sep 20 11:35	4°♐13'58	
minimum elong	5634 Nov 20 23:49	0°♊22'35	0°55'01		5640 Nov 13 11:25	30°♐♎	
max. Earth dist.	5634 Nov 20 06:21	0°♊13'12	6.47557 AU	opposition	5640 Nov 19 06:15	29°♎13'43	-1°21'59
morning rise	5634 Dec 03 23:35	3°♊09'49		min. Earth dist.	5640 Nov 18 18:47	29°♎17'33	3.93067 AU
retrograde	5635 Apr 03 04:43	19°♊48'44		direct	5641 Jan 16 10:57	24°♎19'43	
opposition	5635 Jun 02 22:23	14°♊54'55	1°12'43		5641 Mar 17 16:58	0°♐	
min. Earth dist.	5635 Jun 03 18:52	14°♊48'20	4.48186 AU	evening set	5641 May 22 15:45	14°♐16'29	
direct	5635 Aug 04 14:12	9°♊53'02					
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max. Earth dist.	5635 Dec 19 14:58	29°♊37'54	6.46677 AU	minimum elong	5641 Jun 05 00:29	17°♐31'14	0°48'15
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conjunction	5635 Dec 21 06:45	29°♊59'25	0°41'58	morning rise	5641 Jun 18 12:02	20°♐47'28	
minimum elong	5635 Dec 21 06:46	29°♊59'26	0°41'59		5641 Jul 28 12:49	0°♑	
	5635 Dec 21 07:49	0°♑		retrograde	5641 Oct 28 18:14	11°♑33'21	
morning rise	5636 Jan 03 01:39	2°♑45'15		min. Earth dist.	5641 Dec 26 00:27	6°♑40'02	3.94696 AU
retrograde	5636 May 02 14:41	19°♑32'11		opposition	5641 Dec 27 06:26	6°♑29'50	-0°55'27
opposition	5636 Jul 02 13:18	14°♑39'49	0°45'07	direct	5642 Feb 23 03:31	1°♑34'29	
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direct	5636 Sep 03 05:38	9°♑38'51					
evening set	5637 Jan 06 19:28	27°♑13'48		conjunction	5642 Jul 13 05:17	24°♑34'00	-0°22'13
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minimum elong	5637 Jan 19 13:40	0°♒02'40	0°17'33		5642 Aug 05 05:20	0°♒	
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retrograde	5637 Jun 03 16:48	20°♒15'02		min. Earth dist.	5643 Jan 31 02:22	12°♒59'20	4.05512 AU
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	5637 Aug 06 13:25	15°♒♒		asc. node	5643 Apr 04 17:54	7°♒50'06	
desc. node	5637 Sep 08 04:34	11°♒26'46			5643 Jun 10 04:36	15°♒	
direct	5637 Oct 04 16:27	10°♒23'21		evening set	5643 Aug 05 15:56	26°♒55'44	
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evening set	5638 Feb 07 02:51	28°♒31'44		conjunction	5643 Aug 19 08:55	0°♓04'44	0°11'26
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max. Earth dist.	5638 Feb 17 16:39	0°♓56'19	6.24055 AU	behind sun begin	5643 Aug 19 02:56	0°♓01'18	
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conjunction	5638 Feb 19 20:08	1°♓25'44	-0°12'52		5643 Aug 19 00:39	0°♓	
minimum elong	5638 Feb 19 20:07	1°♓25'44	0°12'51	max. Earth dist.	5643 Aug 21 15:40	0°♓36'13	6.13089 AU
behind sun begin	5638 Feb 19 15:05	1°♓22'52		morning rise	5643 Sep 02 02:42	3°♓13'44	
behind sun end	5638 Feb 20 01:10	1°♓28'36		retrograde	5644 Jan 06 20:49	22°♓04'11	
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opposition	5638 Sep 06 18:15	17°♓52'25	-0°40'58	direct	5644 May 05 06:09	12°♓00'33	
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	5639 Mar 04 09:41	0°♑					
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				minimum elong	5644 Sep 22 09:59	3°♑22'46	0°39'34
conjunction	5639 Mar 24 23:43	4°♑50'17	-0°40'33	max. Earth dist.	5644 Sep 23 22:48	3°♑43'13	6.28988 AU
minimum elong	5639 Mar 24 23:42	4°♑50'16	0°40'33	morning rise	5644 Oct 05 22:34	6°♑22'30	
max. Earth dist.	5639 Mar 23 14:47	4°♑30'47	6.08250 AU	retrograde	5645 Feb 06 09:18	24°♑05'04	
morning rise	5639 Apr 06 19:59	7°♑52'30		opposition	5645 Apr 07 12:16	19°♑05'12	1°11'14
retrograde	5639 Aug 14 00:33	27°♑32'35		min. Earth dist.	5645 Apr 06 21:03	19°♑10'15	4.35971 AU
opposition	5639 Oct 13 05:27	22°♑35'57	-1°15'07	direct	5645 Jun 07 11:20	14°♑03'22	
min. Earth dist.	5639 Oct 13 19:07	22°♑31'28	4.01335 AU		5645 Oct 03 12:37	0°♒	




























































































































evening set	5645 Oct 11 21:17	1°♄47'17		conjunction	5651 Mar 29 17:45	9°♃44'39	-0°43'33
				minimum elong	5651 Mar 29 17:44	9°♃44'38	0°43'34
conjunction	5645 Oct 25 04:48	4°♄40'06	0°54'29	morning rise	5651 Apr 11 14:55	12°♃48'08	
minimum elong	5645 Oct 25 04:47	4°♄40'05	0°54'30		5651 Jul 08 19:55	0°♂	
max. Earth dist.	5645 Oct 25 12:12	4°♄44'07	6.41716 AU	retrograde	5651 Aug 19 05:31	2°♂38'01	
morning rise	5645 Nov 07 10:22	7°♄31'46			5651 Sep 30 00:47	30°♂♃	
	5645 Dec 13 18:38	15°♄		opposition	5651 Oct 18 09:42	27°♃40'55	-1°17'59
retrograde	5646 Mar 08 12:55	24°♄27'58		min. Earth dist.	5651 Oct 18 19:26	27°♃37'43	3.99604 AU
opposition	5646 May 08 00:42	19°♄31'36	1°21'19	direct	5651 Dec 16 14:09	22°♃46'17	
min. Earth dist.	5646 May 08 04:55	19°♄30'14	4.45780 AU		5652 Feb 24 03:20	0°♂	
	5646 Jun 20 18:41	15°♄♄		evening set	5652 Apr 20 12:11	12°♂27'22	
direct	5646 Jul 09 02:45	14°♄29'21			5652 Apr 30 24:00	15°♂	
	5646 Jul 27 14:24	15°♄					
	5646 Nov 03 10:11	0°♂♂		conjunction	5652 May 03 14:03	15°♂37'44	-0°55'21
evening set	5646 Nov 12 04:50	1°♂♂51'30		minimum elong	5652 May 03 14:02	15°♂37'44	0°55'22
max. Earth dist.	5646 Nov 24 11:09	4°♂♂29'12	6.47892 AU	max. Earth dist.	5652 May 03 16:25	15°♂39'10	5.94863 AU
				morning rise	5652 May 16 18:17	18°♂49'34	
conjunction	5646 Nov 25 06:23	4°♂♂39'32	0°53'56		5652 Jul 05 05:13	0°♂♂	
minimum elong	5646 Nov 25 06:23	4°♂♂39'32	0°53'58	retrograde	5652 Sep 25 20:53	9°♂♂31'48	
morning rise	5646 Dec 08 05:14	7°♂♂26'19		opposition	5652 Nov 24 13:43	4°♂♂31'02	-1°20'11
retrograde	5647 Apr 07 08:05	24°♂♂04'20		min. Earth dist.	5652 Nov 23 23:59	4°♂♂35'39	3.92482 AU
opposition	5647 Jun 07 03:50	19°♂♂10'40	1°09'49		5653 Jan 06 18:16	30°♂♂♂	
min. Earth dist.	5647 Jun 08 01:13	19°♂♂03'49	4.48058 AU	direct	5653 Jan 21 16:35	29°♂♂37'00	
direct	5647 Aug 08 20:01	14°♂♂08'50			5653 Feb 05 13:53	0°♂♂	
	5647 Dec 05 16:40	0°♂♂		evening set	5653 May 27 22:00	19°♂♂34'59	
evening set	5647 Dec 12 14:54	1°♂♂28'47					
max. Earth dist.	5647 Dec 23 17:36	3°♂♂52'53	6.46064 AU	conjunction	5653 Jun 10 07:56	22°♂♂50'14	-0°45'32
				minimum elong	5653 Jun 10 07:58	22°♂♂50'15	0°45'33
conjunction	5647 Dec 25 11:32	4°♂♂15'38	0°39'06	max. Earth dist.	5653 Jun 11 21:29	23°♂♂13'02	5.92646 AU
minimum elong	5647 Dec 25 11:33	4°♂♂15'38	0°39'07	morning rise	5653 Jun 23 20:37	26°♂♂06'56	
morning rise	5648 Jan 07 05:57	7°♂♂01'30			5653 Jul 10 04:56	0°♂♂♂	
retrograde	5648 May 06 23:33	23°♂♂51'13		retrograde	5653 Nov 03 00:37	16°♂♂50'27	
opposition	5648 Jul 06 21:44	18°♂♂58'54	0°39'59	min. Earth dist.	5653 Dec 31 03:08	11°♂♂57'40	3.95538 AU
min. Earth dist.	5648 Jul 08 08:57	18°♂♂47'41	4.42241 AU	opposition	5654 Jan 01 11:21	11°♂♂46'43	-0°49'34
direct	5648 Sep 07 14:20	13°♂♂58'04		direct	5654 Feb 28 08:16	6°♂♂51'08	
	5649 Jan 03 18:24	0°♂♂♂		evening set	5654 Jul 04 20:23	26°♂♂32'35	
evening set	5649 Jan 11 01:58	1°♂♂♂36'01					
max. Earth dist.	5649 Jan 21 14:33	3°♂♂♂55'44	6.36636 AU	conjunction	5654 Jul 18 12:14	29°♂♂46'53	-0°17'38
				minimum elong	5654 Jul 18 12:15	29°♂♂46'53	0°17'38
conjunction	5649 Jan 23 19:51	4°♂♂♂25'20	0°13'29		5654 Jul 19 10:22	0°♂♂♂	
minimum elong	5649 Jan 23 19:52	4°♂♂♂25'20	0°13'30	max. Earth dist.	5654 Jul 20 20:44	0°♂♂♂20'23	6.00613 AU
behind sun begin	5649 Jan 23 15:19	4°♂♂♂22'50		morning rise	5654 Aug 01 06:18	3°♂♂♂01'59	
behind sun end	5649 Jan 24 00:24	4°♂♂♂27'51			5654 Sep 25 11:48	15°♂♂♂	
morning rise	5649 Feb 05 12:14	7°♂♂♂14'08		retrograde	5654 Dec 08 23:54	22°♂♂♂55'11	
	5649 Mar 14 07:09	15°♂♂♂		min. Earth dist.	5655 Feb 04 23:55	18°♂♂♂03'22	4.07465 AU
retrograde	5649 Jun 08 06:34	24°♂♂♂45'00		opposition	5655 Feb 06 13:21	17°♂♂♂50'36	-0°00'45
desc. node	5649 Jul 19 08:12	22°♂♂♂17'22		asc. node	5655 Feb 12 10:55	17°♂♂♂02'40	
opposition	5649 Aug 08 04:23	19°♂♂♂52'24	-0°02'16		5655 Feb 28 21:46	15°♂♂♂♂	
min. Earth dist.	5649 Aug 09 18:12	19°♂♂♂40'19	4.29711 AU	direct	5655 Apr 06 02:39	12°♂♂♂52'16	
	5649 Sep 30 15:39	15°♂♂♂♂			5655 May 12 12:54	15°♂♂♂	
direct	5649 Oct 09 02:29	14°♂♂♂53'18			5655 Aug 02 09:34	0°♂♂♂♂	
	5649 Oct 17 14:42	15°♂♂♂		evening set	5655 Aug 10 17:25	1°♂♂♂53'07	
	5650 Jan 28 16:32	0°♂♂♂♂					
evening set	5650 Feb 11 13:28	3°♂♂♂♂07'03		conjunction	5655 Aug 24 10:18	5°♂♂♂01'01	0°15'56
max. Earth dist.	5650 Feb 22 06:00	5°♂♂♂♂33'50	6.21949 AU	minimum elong	5655 Aug 24 10:17	5°♂♂♂01'00	0°15'56
				max. Earth dist.	5655 Aug 26 16:55	5°♂♂♂32'15	6.15377 AU
conjunction	5650 Feb 24 06:57	6°♂♂♂♂01'58	-0°17'05	morning rise	5655 Sep 07 03:25	8°♂♂♂08'42	
minimum elong	5650 Feb 24 06:56	6°♂♂♂♂01'57	0°17'04	retrograde	5656 Jan 11 10:02	26°♂♂♂48'33	
morning rise	5650 Mar 08 24:00	8°♂♂♂♂56'59		min. Earth dist.	5656 Mar 10 00:30	21°♂♂♂55'31	4.23489 AU
retrograde	5650 Jul 13 01:44	27°♂♂♂♂33'11		opposition	5656 Mar 11 05:26	21°♂♂♂45'47	0°45'05
opposition	5650 Sep 11 15:51	22°♂♂♂♂38'58	-0°46'44	direct	5656 May 10 01:08	16°♂♂♂45'07	
min. Earth dist.	5650 Sep 12 22:17	22°♂♂♂♂29'08	4.13818 AU		5656 Aug 21 08:03	0°♂♂♂♂	
direct	5650 Nov 11 08:22	17°♂♂♂♂42'12		evening set	5656 Sep 13 13:57	5°♂♂♂♂00'01	
	5651 Feb 15 12:17	0°♂♂♂♂					
evening set	5651 Mar 16 21:50	6°♂♂♂♂42'05		conjunction	5656 Sep 27 02:46	7°♂♂♂♂59'15	0°42'30
max. Earth dist.	5651 Mar 28 10:42	9°♂♂♂♂26'11	6.06192 AU	minimum elong	5656 Sep 27 02:44	7°♂♂♂♂59'14	0°42'31
				max. Earth dist.	5656 Sep 28 11:44	8°♂♂♂♂17'28	6.31300 AU

morning rise	5656 Oct 10 14:28	10°♄57'37			5663 Jan 27 00:27	0°♃	
retrograde	5657 Feb 10 14:10	28°♄31'16		evening set	5663 Mar 21 17:24	11°♃41'05	
opposition	5657 Apr 11 19:32	23°♄31'51	1°13'55	max. Earth dist.	5663 Apr 02 11:45	14°♃29'19	6.03731 AU
min. Earth dist.	5657 Apr 11 06:38	23°♄36'07	4.38029 AU				
direct	5657 Jun 11 23:06	18°♄29'53		conjunction	5663 Apr 03 14:05	14°♃45'04	-0°46'16
	5657 Sep 16 17:46	0°♄		minimum elong	5663 Apr 03 14:04	14°♃45'03	0°46'17
evening set	5657 Oct 16 07:06	6°♄08'32		morning rise	5663 Apr 16 12:05	17°♃50'02	
					5663 Jun 11 02:44	0°♄	
conjunction	5657 Oct 29 13:47	9°♄00'20	0°55'17	retrograde	5663 Aug 24 16:17	7°♄51'18	
minimum elong	5657 Oct 29 13:47	9°♄00'19	0°55'19	opposition	5663 Oct 23 16:54	2°♄53'42	-1°20'17
max. Earth dist.	5657 Oct 29 18:31	9°♄02'53	6.43367 AU	min. Earth dist.	5663 Oct 24 00:02	2°♄51'20	3.97599 AU
morning rise	5657 Nov 11 18:08	11°♄50'54			5663 Nov 16 04:44	30°♄♃	
	5657 Nov 26 15:24	15°♄		direct	5663 Dec 21 17:06	27°♃59'15	
retrograde	5658 Mar 12 14:10	28°♄41'44			5664 Jan 25 18:16	0°♄	
opposition	5658 May 12 04:04	23°♄45'50	1°20'53		5664 Apr 14 03:21	15°♄	
min. Earth dist.	5658 May 12 10:32	23°♄43'44	4.46917 AU	evening set	5664 Apr 25 16:36	17°♄46'19	
direct	5658 Jul 13 09:25	18°♄43'38					
	5658 Oct 18 00:24	0°♄♂		conjunction	5664 May 08 19:40	20°♄57'52	-0°55'16
evening set	5658 Nov 16 09:33	6°♄♂03'11		minimum elong	5664 May 08 19:40	20°♄57'53	0°55'18
max. Earth dist.	5658 Nov 28 09:34	8°♄♂37'29	6.48413 AU	max. Earth dist.	5664 May 09 03:55	21°♄02'54	5.93520 AU
				morning rise	5664 May 22 01:13	24°♄10'56	
conjunction	5658 Nov 29 10:07	8°♄♂50'40	0°52'39		5664 Jun 15 15:56	0°♄♂	
minimum elong	5658 Nov 29 10:08	8°♄♂50'40	0°52'40	retrograde	5664 Oct 01 08:52	14°♄♂58'15	
morning rise	5658 Dec 12 08:20	11°♄♂36'59		min. Earth dist.	5664 Nov 29 06:23	10°♄♂02'58	3.91993 AU
retrograde	5659 Apr 11 11:14	28°♄♂14'01		opposition	5664 Nov 30 00:10	9°♄♂56'59	-1°17'37
opposition	5659 Jun 11 06:56	23°♄♂20'37	1°06'39	direct	5665 Jan 26 23:31	5°♄♂02'53	
min. Earth dist.	5659 Jun 12 07:44	23°♄♂12'40	4.47929 AU	evening set	5665 Jun 02 07:45	25°♄♂01'20	
direct	5659 Aug 13 01:20	18°♄♂18'48					
	5659 Nov 19 14:45	0°♄♂		conjunction	5665 Jun 15 18:38	28°♄♂16'53	-0°42'23
evening set	5659 Dec 16 17:31	5°♄♂39'32		minimum elong	5665 Jun 15 18:40	28°♄♂16'54	0°42'25
max. Earth dist.	5659 Dec 27 17:25	8°♄♂02'23	6.45276 AU	max. Earth dist.	5665 Jun 17 11:40	28°♄♂41'46	5.93038 AU
					5665 Jun 22 20:50	0°♄♂	
conjunction	5659 Dec 29 13:47	8°♄♂26'29	0°36'06	morning rise	5665 Jun 29 08:31	1°♄♂33'53	
minimum elong	5659 Dec 29 13:48	8°♄♂26'30	0°36'08	retrograde	5665 Nov 08 06:06	22°♄♂13'10	
morning rise	5660 Jan 11 07:41	11°♄♂12'30		min. Earth dist.	5666 Jan 05 07:17	17°♄♂20'48	3.96750 AU
retrograde	5660 May 11 04:40	28°♄♂06'02		opposition	5666 Jan 06 17:52	17°♄♂09'01	-0°43'09
opposition	5660 Jul 11 04:11	23°♄♂13'44	0°34'45	direct	5666 Mar 05 16:04	12°♄♂12'59	
min. Earth dist.	5660 Jul 12 16:04	23°♄♂02'17	4.40831 AU		5666 Jul 02 09:19	0°♄♂	
direct	5660 Sep 11 18:13	18°♄♂13'03		evening set	5666 Jul 10 04:34	1°♄♂49'26	
	5660 Dec 18 14:15	0°♄♂					
evening set	5661 Jan 15 06:40	5°♄♂55'15		conjunction	5666 Jul 23 21:02	5°♄♂03'04	-0°12'50
max. Earth dist.	5661 Jan 25 18:30	8°♄♂15'11	6.34693 AU	minimum elong	5666 Jul 23 21:03	5°♄♂03'04	0°12'51
				behind sun begin	5666 Jul 23 15:59	5°♄♂00'05	
conjunction	5661 Jan 28 00:20	8°♄♂45'14	0°09'27	behind sun end	5666 Jul 24 02:07	5°♄♂06'03	
minimum elong	5661 Jan 28 00:20	8°♄♂45'14	0°09'27	max. Earth dist.	5666 Jul 26 08:01	5°♄♂37'53	6.02515 AU
behind sun begin	5661 Jan 27 17:40	8°♄♂41'32		morning rise	5666 Aug 06 15:10	8°♄♂17'18	
behind sun end	5661 Jan 28 07:00	8°♄♂48'56			5666 Sep 05 06:02	15°♄♂	
morning rise	5661 Feb 09 16:38	11°♄♂34'47		retrograde	5666 Dec 13 22:06	27°♄♂59'58	
	5661 Feb 25 07:25	15°♄♂		asc. node	5666 Dec 22 07:56	27°♄♂52'48	
desc. node	5661 May 30 10:00	28°♄♂57'09		min. Earth dist.	5667 Feb 09 23:05	23°♄♂07'52	4.09797 AU
retrograde	5661 Jun 12 21:57	29°♄♂14'07		opposition	5667 Feb 11 11:42	22°♄♂55'25	0°06'25
opposition	5661 Aug 12 17:57	24°♄♂21'25	-0°08'30	direct	5667 Apr 11 05:25	17°♄♂56'41	
min. Earth dist.	5661 Aug 14 08:55	24°♄♂08'56	4.27331 AU		5667 Jul 15 15:41	0°♄♂	
direct	5661 Oct 13 13:42	19°♄♂22'33		evening set	5667 Aug 15 18:51	6°♄♂49'57	
	5662 Jan 11 16:16	0°♄♂♂					
evening set	5662 Feb 16 00:13	7°♄♂♂43'31		conjunction	5667 Aug 29 11:19	9°♄♂♂56'32	0°20'22
max. Earth dist.	5662 Feb 26 16:54	10°♄♂♂11'17	6.19319 AU	minimum elong	5667 Aug 29 11:18	9°♄♂♂56'31	0°20'21
				max. Earth dist.	5667 Aug 31 15:59	10°♄♂♂26'28	6.17899 AU
conjunction	5662 Feb 28 17:53	10°♄♂♂39'35	-0°21'11	morning rise	5667 Sep 12 03:56	13°♄♂♂02'49	
minimum elong	5662 Feb 28 17:52	10°♄♂♂39'34	0°21'10		5667 Dec 15 20:12	0°♄♂	
morning rise	5662 Mar 13 11:28	13°♄♂♂35'54		retrograde	5668 Jan 15 20:44	1°♄♂♂31'30	
	5662 Jun 08 07:55	0°♄♂♂			5668 Feb 15 17:06	30°♄♂♂♂	
retrograde	5662 Jul 18 01:01	2°♄♂♂23'51		opposition	5668 Mar 15 18:57	26°♄♂♂29'06	0°50'23
	5662 Aug 27 04:32	30°♄♂♂♂		min. Earth dist.	5668 Mar 14 15:13	26°♄♂♂38'24	4.25965 AU
opposition	5662 Sep 16 14:21	27°♄♂♂29'18	-0°52'13	direct	5668 May 14 18:57	21°♄♂♂28'09	
min. Earth dist.	5662 Sep 17 17:56	27°♄♂♂20'21	4.11150 AU		5668 Aug 02 14:37	0°♄♂	
direct	5662 Nov 16 00:38	22°♄♂♂32'49		evening set	5668 Sep 18 07:07	9°♄♂♂36'16	

conjunction	5668 Oct 01 19:07	12°♏34'12	0°45'13		5673 Dec 22 02:21	0°♐	
minimum elong	5668 Oct 01 19:06	12°♏34'12	0°45'13	evening set	5674 Feb 20 15:00	12°♐30'00	
max. Earth dist.	5668 Oct 03 00:10	12°♏50'12	6.33540 AU	max. Earth dist.	5674 Mar 03 10:37	15°♐00'18	6.16861 AU
morning rise	5668 Oct 15 05:43	15°♏31'12					
	5669 Jan 01 15:18	0°♍		conjunction	5674 Mar 05 08:54	15°♐27'12	-0°25'18
retrograde	5669 Feb 14 20:42	2°♍56'34		minimum elong	5674 Mar 05 08:53	15°♐27'11	0°25'18
	5669 Mar 31 04:07	30°♐♏		morning rise	5674 Mar 18 02:56	18°♐24'45	
opposition	5669 Apr 16 02:52	27°♏57'42	1°16'12		5674 May 11 14:03	0°♑	
min. Earth dist.	5669 Apr 15 17:11	28°♏00'53	4.39873 AU	retrograde	5674 Jul 23 06:55	7°♑24'05	
direct	5669 Jun 16 11:43	22°♏55'40		opposition	5674 Sep 21 17:17	2°♑29'14	-0°57'33
	5669 Aug 28 13:57	0°♍		min. Earth dist.	5674 Sep 22 19:07	2°♑20'51	4.08825 AU
evening set	5669 Oct 20 17:20	10°♍29'55			5674 Oct 11 18:59	30°♐♐	
				direct	5674 Nov 20 23:27	27°♐33'10	
conjunction	5669 Nov 02 23:03	13°♍20'51	0°55'49		5674 Dec 30 10:51	0°♑	
minimum elong	5669 Nov 02 23:03	13°♍20'51	0°55'50	evening set	5675 Mar 26 16:18	16°♑48'23	
max. Earth dist.	5669 Nov 02 22:27	13°♍20'31	6.44674 AU				
	5669 Nov 10 15:04	15°♍		conjunction	5675 Apr 08 13:46	19°♑53'34	-0°48'45
morning rise	5669 Nov 16 02:33	16°♍10'34		minimum elong	5675 Apr 08 13:44	19°♑53'33	0°48'45
	5670 Jan 31 02:31	0°♐		max. Earth dist.	5675 Apr 07 16:00	19°♑40'31	6.01778 AU
retrograde	5670 Mar 16 17:38	2°♐57'23		morning rise	5675 Apr 21 12:40	22°♑59'50	
	5670 Apr 30 16:55	30°♐♍			5675 May 21 19:44	0°♒	
opposition	5670 May 16 08:45	28°♍01'52	1°20'04	retrograde	5675 Aug 30 02:25	13°♒10'11	
min. Earth dist.	5670 May 16 18:09	27°♍58'50	4.47637 AU	opposition	5675 Oct 29 02:03	8°♒12'08	-1°21'59
direct	5670 Jul 17 16:42	22°♍59'40		min. Earth dist.	5675 Oct 29 04:51	8°♒11'13	3.96271 AU
	5670 Sep 29 03:51	0°♐		direct	5675 Dec 26 20:43	3°♒17'59	
evening set	5670 Nov 20 15:27	10°♐17'58			5676 Mar 26 23:35	15°♒	
				evening set	5676 Apr 30 22:42	23°♒08'25	
conjunction	5670 Dec 03 15:28	13°♐05'11	0°51'05				
minimum elong	5670 Dec 03 15:29	13°♐05'11	0°51'05	conjunction	5676 May 14 02:42	26°♒20'43	-0°54'47
max. Earth dist.	5670 Dec 02 12:35	12°♐50'44	6.48499 AU	minimum elong	5676 May 14 02:43	26°♒20'44	0°54'48
morning rise	5670 Dec 16 12:49	15°♐51'11		max. Earth dist.	5676 May 14 15:41	26°♒28'39	5.92948 AU
	5671 Mar 05 19:09	0°♓		morning rise	5676 May 27 09:31	29°♒34'36	
retrograde	5671 Apr 15 15:22	2°♓28'47			5676 May 29 03:32	0°♑	
	5671 May 26 19:51	30°♐♐♐		retrograde	5676 Oct 06 18:27	20°♑23'36	
opposition	5671 Jun 15 12:41	27°♐35'39	1°03'06	opposition	5676 Dec 05 09:36	15°♑21'48	-1°14'25
min. Earth dist.	5671 Jun 16 15:15	27°♐27'09	4.47382 AU	min. Earth dist.	5676 Dec 04 12:15	15°♑29'00	3.92260 AU
direct	5671 Aug 17 07:05	22°♐34'01		direct	5677 Feb 01 08:17	10°♑27'31	
	5671 Nov 01 03:23	0°♓			5677 Jun 06 00:24	0°♑	
evening set	5671 Dec 20 23:01	9°♓56'44		evening set	5677 Jun 07 15:54	0°♑23'43	
max. Earth dist.	5671 Dec 31 19:03	12°♓17'58	6.44126 AU				
				conjunction	5677 Jun 21 03:54	3°♑39'15	-0°38'58
conjunction	5672 Jan 02 18:40	12°♓43'56	0°32'50	minimum elong	5677 Jun 21 03:56	3°♑39'16	0°39'00
minimum elong	5672 Jan 02 18:41	12°♓43'56	0°32'52	max. Earth dist.	5677 Jun 23 02:11	4°♑07'14	5.94118 AU
morning rise	5672 Jan 15 12:21	15°♓30'17		morning rise	5677 Jul 04 18:28	6°♑56'03	
	5672 Apr 04 18:43	0°♑		retrograde	5677 Nov 13 09:55	27°♑28'28	
retrograde	5672 May 15 16:21	2°♑28'55		min. Earth dist.	5678 Jan 10 10:08	22°♑36'04	3.98499 AU
	5672 Jun 25 23:09	30°♐♓		opposition	5678 Jan 11 21:17	22°♑24'06	-0°36'36
opposition	5672 Jul 15 14:38	27°♓36'41	0°29'08	direct	5678 Mar 10 21:44	17°♑27'43	
min. Earth dist.	5672 Jul 17 04:35	27°♓24'35	4.39134 AU		5678 Jun 14 16:51	0°♒	
direct	5672 Sep 16 04:05	22°♓36'12		evening set	5678 Jul 15 09:10	6°♒57'35	
	5672 Nov 29 19:48	0°♑					
evening set	5673 Jan 19 15:07	10°♑23'30		conjunction	5678 Jul 29 01:48	10°♒10'16	-0°08'08
max. Earth dist.	5673 Jan 30 02:27	12°♑43'51	6.32579 AU	minimum elong	5678 Jul 29 01:48	10°♒10'16	0°08'09
				behind sun begin	5678 Jul 28 18:23	10°♒05'56	
conjunction	5673 Feb 01 08:47	13°♑14'18	0°05'12	behind sun end	5678 Jul 29 09:13	10°♒14'36	
minimum elong	5673 Feb 01 08:47	13°♑14'18	0°05'13	max. Earth dist.	5678 Jul 31 13:05	10°♒45'03	6.04736 AU
behind sun begin	5673 Feb 01 01:04	13°♑09'59		morning rise	5678 Aug 11 20:05	13°♒23'28	
behind sun end	5673 Feb 01 16:30	13°♑18'36			5678 Aug 18 18:57	15°♒	
	5673 Feb 09 05:20	15°♑		asc. node	5678 Nov 01 14:28	29°♒30'54	
morning rise	5673 Feb 14 01:05	16°♑04'42			5678 Nov 05 07:01	0°♑	
desc. node	5673 Apr 08 19:58	27°♑06'02		retrograde	5678 Dec 18 13:42	2°♑54'56	
	5673 Apr 27 02:18	0°♐			5679 Jan 30 19:53	30°♐♒	
retrograde	5673 Jun 17 15:33	3°♐53'11		min. Earth dist.	5679 Feb 14 17:00	28°♒03'01	4.12254 AU
	5673 Aug 09 16:16	30°♐♑		opposition	5679 Feb 16 05:39	27°♒50'35	0°13'14
opposition	5673 Aug 17 11:50	29°♑00'20	-0°14'59	direct	5679 Apr 16 02:53	22°♒51'28	
min. Earth dist.	5673 Aug 19 01:11	28°♑48'22	4.24945 AU		5679 Jun 25 17:45	0°♑	
direct	5673 Oct 18 02:18	24°♑01'51		evening set	5679 Aug 20 16:14	11°♑37'19	

conjunction	5679 Sep 03 08:12	14° \mathbb{M} 42'34	0°24'29	conjunction	5685 Feb 05 18:05	17° \approx 46'28	0°00'51
minimum elong	5679 Sep 03 08:11	14° \mathbb{M} 42'34	0°24'29	minimum elong	5685 Feb 05 18:06	17° \approx 46'28	0°00'53
max. Earth dist.	5679 Sep 05 09:10	15° \mathbb{M} 10'16	6.20377 AU	behind sun begin	5685 Feb 05 10:08	17° \approx 42'00	
morning rise	5679 Sep 17 00:07	17° \mathbb{M} 47'27		behind sun end	5685 Feb 06 02:04	17° \approx 50'56	
	5679 Nov 16 03:17	0° $\underline{\mathbf{L}}$		desc. node	5685 Feb 16 10:44	20° \approx 10'56	
retrograde	5680 Jan 20 06:29	6° $\underline{\mathbf{L}}$ 05'46		morning rise	5685 Feb 18 10:35	20° \approx 37'46	
min. Earth dist.	5680 Mar 19 04:23	1° $\underline{\mathbf{L}}$ 12'00	4.28245 AU		5685 Apr 03 21:01	0° \mathbb{H}	
opposition	5680 Mar 20 04:47	1° $\underline{\mathbf{L}}$ 03'50	0°55'10	retrograde	5685 Jun 22 12:56	8° \mathbb{H} 35'22	
	5680 Mar 28 04:54	30° \mathbb{R} \mathbb{M}		opposition	5685 Aug 22 07:14	3° \mathbb{H} 42'17	-0°21'24
direct	5680 May 19 10:44	26° \mathbb{M} 02'39		min. Earth dist.	5685 Aug 23 19:55	3° \mathbb{H} 30'31	4.22687 AU
	5680 Jul 10 14:02	0° $\underline{\mathbf{L}}$			5685 Sep 23 22:48	30° \mathbb{R} \approx	
evening set	5680 Sep 22 20:39	14° $\underline{\mathbf{L}}$ 04'56		direct	5685 Oct 22 18:34	28° \approx 44'05	
					5685 Nov 20 10:16	0° \mathbb{H}	
conjunction	5680 Oct 06 07:54	17° $\underline{\mathbf{L}}$ 01'46	0°47'35	evening set	5686 Feb 25 06:40	17° \mathbb{H} 18'37	
minimum elong	5680 Oct 06 07:52	17° $\underline{\mathbf{L}}$ 01'45	0°47'35	max. Earth dist.	5686 Mar 08 05:46	19° \mathbb{H} 51'39	6.14671 AU
max. Earth dist.	5680 Oct 07 09:07	17° $\underline{\mathbf{L}}$ 15'36	6.35442 AU				
morning rise	5680 Oct 19 17:31	19° $\underline{\mathbf{L}}$ 57'36		conjunction	5686 Mar 10 00:57	20° \mathbb{H} 16'51	-0°29'16
	5680 Dec 08 11:20	0° \mathbb{M}		minimum elong	5686 Mar 10 00:56	20° \mathbb{H} 16'50	0°29'16
retrograde	5681 Feb 18 23:26	7° \mathbb{M} 16'10		morning rise	5686 Mar 22 19:23	23° \mathbb{H} 15'31	
opposition	5681 Apr 20 07:40	2° \mathbb{M} 17'47	1°18'02		5686 Apr 21 18:33	0° \mathbb{Y}	
min. Earth dist.	5681 Apr 20 00:10	2° \mathbb{M} 20'15	4.41296 AU	retrograde	5686 Jul 28 10:35	12° \mathbb{Y} 24'45	
	5681 May 08 12:11	30° \mathbb{R} $\underline{\mathbf{L}}$		opposition	5686 Sep 26 20:06	7° \mathbb{Y} 29'30	-1°02'27
direct	5681 Jun 20 19:09	27° $\underline{\mathbf{L}}$ 15'40		min. Earth dist.	5686 Sep 27 18:33	7° \mathbb{Y} 22'12	4.06901 AU
	5681 Aug 03 12:06	0° \mathbb{M}		direct	5686 Nov 25 20:17	2° \mathbb{Y} 33'45	
evening set	5681 Oct 25 01:06	14° \mathbb{M} 46'57		evening set	5687 Mar 31 15:10	21° \mathbb{Y} 54'17	
	5681 Oct 26 01:32	15° \mathbb{M}					
conjunction	5681 Nov 07 06:00	17° \mathbb{M} 37'12	0°56'03	conjunction	5687 Apr 13 13:12	25° \mathbb{Y} 00'26	-0°50'49
minimum elong	5681 Nov 07 06:00	17° \mathbb{M} 37'12	0°56'04	minimum elong	5687 Apr 13 13:11	25° \mathbb{Y} 00'25	0°50'50
max. Earth dist.	5681 Nov 07 01:17	17° \mathbb{M} 34'40	6.45525 AU	max. Earth dist.	5687 Apr 12 19:22	24° \mathbb{Y} 49'42	6.00275 AU
morning rise	5681 Nov 20 08:32	20° \mathbb{M} 26'14		morning rise	5687 Apr 26 13:06	28° \mathbb{Y} 07'47	
	5682 Jan 07 09:32	0° \mathbb{Z}			5687 May 04 09:47	0° \mathbb{B}	
retrograde	5682 Mar 20 20:55	7° \mathbb{Z} 10'36		retrograde	5687 Jul 19 03:10	15° \mathbb{B}	
opposition	5682 May 20 12:22	2° \mathbb{Z} 15'33	1°18'54		5687 Sep 04 10:31	18° \mathbb{B} 25'11	
min. Earth dist.	5682 May 21 00:58	2° \mathbb{Z} 11'29	4.47886 AU		5687 Oct 22 11:01	15° \mathbb{R} \mathbb{B}	
	5682 Jun 07 15:58	30° \mathbb{R} \mathbb{M}		opposition	5687 Nov 03 09:34	13° \mathbb{B} 26'33	-1°22'59
direct	5682 Jul 21 22:58	27° \mathbb{M} 13'23		min. Earth dist.	5687 Nov 03 08:47	13° \mathbb{B} 26'49	3.95342 AU
	5682 Sep 04 09:20	0° \mathbb{Z}		direct	5688 Jan 01 01:08	8° \mathbb{B} 32'28	
evening set	5682 Nov 24 20:41	14° \mathbb{Z} 31'50			5688 Mar 05 23:27	15° \mathbb{B}	
				evening set	5688 May 06 02:50	28° \mathbb{B} 24'48	
conjunction	5682 Dec 07 19:58	17° \mathbb{Z} 18'55	0°49'16		5688 May 12 15:38	0° \mathbb{I}	
minimum elong	5682 Dec 07 19:59	17° \mathbb{Z} 18'55	0°49'18	conjunction	5688 May 19 08:03	1° \mathbb{I} 37'46	-0°53'50
max. Earth dist.	5682 Dec 06 12:27	17° \mathbb{Z} 01'57	6.48122 AU	minimum elong	5688 May 19 08:04	1° \mathbb{I} 37'46	0°53'51
morning rise	5682 Dec 20 16:51	20° \mathbb{Z} 04'53		max. Earth dist.	5688 May 20 03:23	1° \mathbb{I} 49'32	5.92686 AU
	5683 Feb 08 19:33	0° \mathbb{B}		morning rise	5688 Jun 01 15:50	4° \mathbb{I} 52'14	
retrograde	5683 Apr 19 21:31	6° \mathbb{B} 44'23		retrograde	5688 Oct 12 02:57	25° \mathbb{I} 41'30	
opposition	5683 Jun 19 18:39	1° \mathbb{B} 51'27	0°59'16	opposition	5688 Dec 10 16:13	20° \mathbb{I} 39'16	-1°10'38
min. Earth dist.	5683 Jun 20 23:22	1° \mathbb{B} 42'16	4.46428 AU	min. Earth dist.	5688 Dec 09 17:05	20° \mathbb{I} 47'05	3.92703 AU
	5683 Jul 04 15:50	30° \mathbb{R} \mathbb{Z}		direct	5689 Feb 06 14:19	15° \mathbb{I} 44'49	
direct	5683 Aug 21 13:06	26° \mathbb{Z} 49'52			5689 May 19 20:58	0° \mathbb{E}	
	5683 Oct 08 04:05	0° \mathbb{B}		evening set	5689 Jun 12 21:49	5° \mathbb{E} 38'29	
evening set	5683 Dec 25 04:46	14° \mathbb{B} 15'43					
max. Earth dist.	5684 Jan 05 00:13	16° \mathbb{B} 37'06	6.42670 AU	conjunction	5689 Jun 26 10:35	8° \mathbb{E} 53'53	-0°35'18
				minimum elong	5689 Jun 26 10:36	8° \mathbb{E} 53'54	0°35'19
conjunction	5684 Jan 07 00:13	17° \mathbb{B} 03'21	0°29'24	max. Earth dist.	5689 Jun 28 11:06	9° \mathbb{E} 23'07	5.95200 AU
minimum elong	5684 Jan 07 00:15	17° \mathbb{B} 03'22	0°29'25	morning rise	5689 Jul 10 02:05	12° \mathbb{E} 10'33	
morning rise	5684 Jan 19 17:28	19° \mathbb{B} 50'08			5689 Oct 08 18:20	0° \mathbb{Q}	
	5684 Mar 10 05:38	0° \approx		retrograde	5689 Nov 18 08:55	2° \mathbb{Q} 36'09	
retrograde	5684 May 20 03:11	6° \approx 54'43			5689 Dec 28 22:16	30° \mathbb{R} \mathbb{E}	
opposition	5684 Jul 20 02:12	2° \approx 02'30	0°23'21	min. Earth dist.	5690 Jan 15 08:44	27° \mathbb{E} 44'10	4.00102 AU
min. Earth dist.	5684 Jul 21 16:02	1° \approx 50'26	4.37273 AU	opposition	5690 Jan 16 21:29	27° \mathbb{E} 31'39	-0°29'53
	5684 Aug 05 13:56	30° \mathbb{R} \mathbb{B}		direct	5690 Mar 15 22:50	22° \mathbb{E} 34'55	
direct	5684 Sep 20 12:35	27° \mathbb{B} 02'17			5690 May 25 17:39	0° \mathbb{Q}	
	5684 Nov 04 23:07	0° \approx		evening set	5690 Jul 20 11:52	11° \mathbb{Q} 59'21	
evening set	5685 Jan 24 00:41	14° \approx 54'55			5690 Aug 02 09:31	15° \mathbb{Q}	
	5685 Jan 24 09:47	15° \approx					
max. Earth dist.	5685 Feb 03 11:49	17° \approx 15'53	6.30452 AU	conjunction	5690 Aug 03 04:44	15° \mathbb{Q} 11'14	-0°03'25

minimum elong	5690 Aug 03 04:44	15°♎11'13	0°03'27	min. Earth dist.	5696 Jul 26 04:43	6°♊18'48	4.35839 AU
behind sun begin	5690 Aug 02 20:24	15°♎06'23		direct	5696 Sep 24 23:18	1°♊30'56	
behind sun end	5690 Aug 03 13:03	15°♎16'04		desc. node	5696 Dec 28 00:41	12°♊41'30	
max. Earth dist.	5690 Aug 05 14:34	15°♎45'00	6.06706 AU		5697 Jan 08 02:40	15°♊	
morning rise	5690 Aug 16 23:00	18°♎23'28		evening set	5697 Jan 28 10:12	19°♊27'20	
asc. node	5690 Sep 11 23:42	24°♎15'26		max. Earth dist.	5697 Feb 07 23:30	21°♊49'59	6.28856 AU
	5690 Oct 10 08:04	0°♎					
retrograde	5690 Dec 23 06:20	7°♎45'09		conjunction	5697 Feb 10 03:39	22°♊19'29	-0°03'30
min. Earth dist.	5691 Feb 19 11:32	2°♎52'45	4.14366 AU	minimum elong	5697 Feb 10 03:38	22°♊19'28	0°03'29
opposition	5691 Feb 20 22:06	2°♎41'02	0°19'52	behind sun begin	5697 Feb 09 19:43	22°♊15'01	
	5691 Mar 13 21:50	30°♎♎		behind sun end	5697 Feb 10 11:33	22°♊23'55	
direct	5691 Apr 21 00:24	27°♎41'34		morning rise	5697 Feb 22 19:59	25°♊11'24	
	5691 May 29 08:14	0°♎			5697 Mar 16 15:46	0°♋	
evening set	5691 Aug 25 12:33	16°♎21'29		retrograde	5697 Jun 27 07:21	13°♋16'14	
				opposition	5697 Aug 27 01:40	8°♋22'57	-0°27'33
conjunction	5691 Sep 08 04:11	19°♎25'41	0°28'25	min. Earth dist.	5697 Aug 28 12:39	8°♋11'43	4.21043 AU
minimum elong	5691 Sep 08 04:10	19°♎25'40	0°28'25	direct	5697 Oct 27 08:29	3°♋25'07	
max. Earth dist.	5691 Sep 10 03:23	19°♎52'15	6.22459 AU	evening set	5698 Mar 01 20:42	22°♋03'53	
morning rise	5691 Sep 21 19:21	22°♎29'21		max. Earth dist.	5698 Mar 12 21:49	24°♋38'40	6.13104 AU
	5691 Oct 26 21:33	0°♏					
retrograde	5692 Jan 24 14:33	10°♏38'54		conjunction	5698 Mar 14 15:03	25°♋02'50	-0°32'55
opposition	5692 Mar 24 14:30	5°♏37'29	0°59'37	minimum elong	5698 Mar 14 15:01	25°♋02'49	0°32'55
min. Earth dist.	5692 Mar 23 15:26	5°♏45'11	4.30129 AU	morning rise	5698 Mar 27 10:01	28°♋02'21	
direct	5692 May 23 23:24	0°♏36'09			5698 Apr 04 21:11	0°♌	
evening set	5692 Sep 27 10:39	18°♏34'02		retrograde	5698 Aug 02 11:04	17°♌19'26	
				opposition	5698 Oct 01 20:08	12°♌23'43	-1°06'42
conjunction	5692 Oct 10 20:58	21°♏29'53	0°49'40	min. Earth dist.	5698 Oct 02 15:52	12°♌17'16	4.05536 AU
minimum elong	5692 Oct 10 20:57	21°♏29'52	0°49'41	direct	5698 Nov 30 16:41	7°♌28'12	
max. Earth dist.	5692 Oct 11 16:54	21°♏40'47	6.36990 AU	evening set	5699 Apr 05 10:19	26°♌52'05	
morning rise	5692 Oct 24 05:43	24°♏24'43					
	5692 Nov 19 17:56	0°♍		conjunction	5699 Apr 18 09:11	29°♌59'01	-0°52'25
retrograde	5693 Feb 23 06:00	11°♍37'44		minimum elong	5699 Apr 18 09:10	29°♌59'01	0°52'26
opposition	5693 Apr 24 13:39	6°♍39'56	1°19'27	max. Earth dist.	5699 Apr 17 20:36	29°♌51'26	5.99248 AU
min. Earth dist.	5693 Apr 24 09:48	6°♍41'12	4.42419 AU		5699 Apr 18 10:48	0°♎	
direct	5693 Jun 25 05:31	1°♍37'47		morning rise	5699 May 01 09:45	3°♎07'11	
	5693 Oct 09 18:58	15°♍			5699 Jun 23 22:13	15°♎	
evening set	5693 Oct 29 10:12	19°♍07'01		retrograde	5699 Sep 09 15:09	23°♎29'41	
				opposition	5699 Nov 08 12:14	18°♎30'37	-1°23'14
conjunction	5693 Nov 11 14:22	21°♍56'45	0°55'58	min. Earth dist.	5699 Nov 08 09:20	18°♎31'35	3.94779 AU
minimum elong	5693 Nov 11 14:23	21°♍56'45	0°55'59		5699 Dec 08 00:47	15°♏	
max. Earth dist.	5693 Nov 11 06:09	21°♍52'20	6.46150 AU	direct	5700 Jan 06 01:23	13°♏36'35	
morning rise	5693 Nov 24 16:03	24°♍45'15			5700 Feb 03 20:55	15°♏	
	5693 Dec 19 20:51	0°♐			5700 Apr 27 12:02	0°♐	
retrograde	5694 Mar 25 01:00	11°♐27'53		evening set	5700 May 12 02:33	3°♐29'45	
opposition	5694 May 24 17:46	6°♐33'14	1°17'17				
min. Earth dist.	5694 May 25 07:55	6°♐28'40	4.48017 AU	conjunction	5700 May 25 08:36	6°♐43'11	-0°52'30
direct	5694 Jul 26 04:57	1°♐31'12		minimum elong	5700 May 25 08:37	6°♐43'12	0°52'31
evening set	5694 Nov 29 03:23	18°♐50'01		max. Earth dist.	5700 May 26 06:18	6°♐56'24	5.92624 AU
max. Earth dist.	5694 Dec 10 17:06	21°♐19'13	6.47777 AU	morning rise	5700 Jun 07 17:37	9°♐58'13	
					5700 Sep 26 06:28	0°♑	
conjunction	5694 Dec 12 02:04	21°♐37'01	0°47'10	retrograde	5700 Oct 18 03:00	0°♑46'55	
minimum elong	5694 Dec 12 02:06	21°♐37'01	0°47'12		5700 Nov 08 21:36	30°♑♐	
morning rise	5694 Dec 24 22:15	24°♐22'53		opposition	5700 Dec 16 16:55	25°♐44'17	-1°06'30
	5695 Jan 20 22:10	0°♑		min. Earth dist.	5700 Dec 15 15:06	25°♐53'01	3.93173 AU
retrograde	5695 Apr 24 05:03	11°♑04'17		direct	5701 Feb 12 13:23	20°♐49'35	
opposition	5695 Jun 24 02:38	6°♑11'38	0°55'03		5701 May 02 11:21	0°♑	
min. Earth dist.	5695 Jun 25 08:52	6°♑02'00	4.45646 AU	evening set	5701 Jun 18 22:43	10°♑41'08	
direct	5695 Aug 25 21:07	1°♑10'21					
evening set	5695 Dec 29 11:48	18°♑38'29		conjunction	5701 Jul 02 12:21	13°♑56'29	-0°31'33
max. Earth dist.	5696 Jan 09 04:30	20°♑58'51	6.41524 AU	minimum elong	5701 Jul 02 12:23	13°♑56'30	0°31'34
				max. Earth dist.	5701 Jul 04 14:15	14°♑26'28	5.96153 AU
conjunction	5696 Jan 11 06:41	21°♑26'23	0°25'48	morning rise	5701 Jul 16 04:32	17°♑12'59	
minimum elong	5696 Jan 11 06:42	21°♑26'23	0°25'48		5701 Sep 12 20:59	0°♒	
morning rise	5696 Jan 23 23:46	24°♑13'32		retrograde	5701 Nov 24 05:19	7°♒32'46	
	5696 Feb 20 05:34	0°♒		min. Earth dist.	5702 Jan 21 05:08	2°♒40'27	4.01417 AU
retrograde	5696 May 24 16:22	11°♒23'08		opposition	5702 Jan 22 17:08	2°♒28'11	-0°23'19
opposition	5696 Jul 24 14:51	6°♒30'53	0°17'25		5702 Feb 10 18:05	30°♒♑	

direct	5702 Mar 21 21:49	27°  31'02		conjunction	5708 Jan 16 12:02	25°  45'47	0°22'02
	5702 Apr 30 00:36	0° 		minimum elong	5708 Jan 16 12:03	25°  45'47	0°22'04
	5702 Jul 18 09:01	15° 		morning rise	5708 Jan 29 04:43	28°  33'17	
evening set	5702 Jul 26 10:19	16°  51'21			5708 Feb 04 19:55	0° 	
asc. node	5702 Jul 26 10:49	16°  51'38			5708 May 07 06:15	15° 	
				retrograde	5708 May 30 04:31	15°  48'25	
conjunction	5702 Aug 09 03:32	20°  02'37	0°01'11		5708 Jun 22 02:29	15°  48'25	
minimum elong	5702 Aug 09 03:30	20°  02'36	0°01'11	opposition	5708 Jul 30 02:46	10°  56'08	0°11'21
behind sun begin	5702 Aug 08 19:06	19°  57'45		min. Earth dist.	5708 Jul 31 17:20	10°  43'49	4.34178 AU
behind sun end	5702 Aug 09 11:54	20°  07'28		direct	5708 Sep 30 08:50	5°  56'26	
max. Earth dist.	5702 Aug 11 13:55	20°  36'35	6.08275 AU	desc. node	5708 Nov 08 05:24	8°  59'19	
morning rise	5702 Aug 22 21:41	23°  01'4'05			5708 Dec 22 11:20	15° 	
	5702 Sep 22 05:39	0° 		evening set	5709 Feb 02 19:05	23°  57'27	
retrograde	5702 Dec 28 19:11	12°  17'41		max. Earth dist.	5709 Feb 13 07:24	26°  20'15	6.26905 AU
min. Earth dist.	5703 Feb 25 01:18	7°  17'35'22	4.16044 AU				
opposition	5703 Feb 26 11:19	7°  17'23'51	0°26'04	conjunction	5709 Feb 15 12:19	26°  50'19	-0°07'46
direct	5703 Apr 26 16:03	2°  17'24'06		minimum elong	5709 Feb 15 12:18	26°  50'18	0°07'45
evening set	5703 Aug 31 06:32	20°  17'59'42		behind sun begin	5709 Feb 15 05:06	26°  46'14	
				behind sun end	5709 Feb 15 19:31	26°  54'23	
conjunction	5703 Sep 13 21:34	24°  17'02'56	0°32'01	morning rise	5709 Feb 28 04:58	29°  43'07	
minimum elong	5703 Sep 13 21:32	24°  17'02'55	0°32'00		5709 Mar 01 10:51	0° 	
max. Earth dist.	5703 Sep 15 16:28	24°  17'27'01	6.24109 AU	retrograde	5709 Jul 03 03:22	17°  56'53	
morning rise	5703 Sep 27 12:13	27°  17'05'37		opposition	5709 Sep 01 20:34	13°  50'31'19	-0°33'40
	5703 Oct 10 17:18	0° 		min. Earth dist.	5709 Sep 03 06:03	12°  52'31	4.18914 AU
retrograde	5704 Jan 29 22:46	15°  07'57		direct	5709 Nov 01 22:57	8°  50'46	
opposition	5704 Mar 29 22:39	10°  06'56	1°03'32	evening set	5710 Mar 07 11:36	26°  50'46	
min. Earth dist.	5704 Mar 29 02:25	10°  05'13'41	4.31633 AU	max. Earth dist.	5710 Mar 18 17:12	29°  51'28'51	6.10990 AU
direct	5704 May 29 12:03	5°  05'24					
evening set	5704 Oct 02 23:05	22°  05'59'51		conjunction	5710 Mar 20 06:30	29°  50'48	-0°36'26
				minimum elong	5710 Mar 20 06:28	29°  50'47	0°36'26
conjunction	5704 Oct 16 08:48	25°  05'54'55	0°51'23		5710 Mar 20 22:08	0° 	
minimum elong	5704 Oct 16 08:47	25°  05'54'54	0°51'24	morning rise	5710 Apr 02 01:53	2°  51'27	
max. Earth dist.	5704 Oct 17 02:50	26°  04'45	6.38248 AU	retrograde	5710 Aug 08 15:14	22°  51'18'35	
morning rise	5704 Oct 29 16:30	28°  04'48'50		opposition	5710 Oct 07 22:12	17°  51'22'32	-1°10'40
	5704 Nov 04 04:35	0° 		min. Earth dist.	5710 Oct 08 15:57	17°  51'16'43	4.03626 AU
	5705 Feb 03 17:59	15° 		direct	5710 Dec 06 14:03	12°  51'27'20	
retrograde	5705 Feb 28 09:18	15°  57'03			5711 Apr 03 04:52	0° 	
	5705 Mar 24 22:13	15°  57'03		evening set	5711 Apr 11 08:53	1°  56'56	
opposition	5705 Apr 29 18:55	10°  59'39	1°20'22				
min. Earth dist.	5705 Apr 29 16:19	11°  59'00'30	4.43362 AU	conjunction	5711 Apr 24 08:29	5°  50'45'57	-0°53'42
direct	5705 Jun 30 12:46	5°  57'29		minimum elong	5711 Apr 24 08:28	5°  50'45'57	0°53'43
	5705 Sep 23 02:45	15° 		max. Earth dist.	5711 Apr 23 22:46	4°  59'05	5.97713 AU
evening set	5705 Nov 03 18:15	23°  57'24'42		morning rise	5711 May 07 10:17	8°  51'14'20	
					5711 Jun 05 09:40	15° 	
conjunction	5705 Nov 16 21:28	26°  57'13'53	0°55'32	retrograde	5711 Sep 15 22:30	28°  51'43'57	
minimum elong	5705 Nov 16 21:29	26°  57'13'53	0°55'34	opposition	5711 Nov 14 18:44	23°  51'44'24	-1°22'56
max. Earth dist.	5705 Nov 16 09:28	26°  57'07'25	6.46703 AU	min. Earth dist.	5711 Nov 14 11:41	23°  51'46'45	3.93803 AU
morning rise	5705 Nov 29 22:23	29°  57'01'51		direct	5712 Jan 12 03:27	18°  51'50'25	
	5705 Dec 04 11:37	0° 			5712 Apr 09 11:14	0° 	
retrograde	5706 Mar 30 06:01	15°  57'42'44		evening set	5712 May 17 07:03	8°  51'46'11	
opposition	5706 May 29 22:46	10°  57'48'23	1°15'13				
min. Earth dist.	5706 May 30 15:49	10°  57'42'54	4.48138 AU	conjunction	5712 May 30 14:21	12°  51'00'21	-0°50'43
direct	5706 Jul 31 12:42	5°  57'46'22		minimum elong	5712 May 30 14:22	12°  51'00'22	0°50'44
evening set	5706 Dec 04 08:54	23°  57'05'05		max. Earth dist.	5712 May 31 17:05	12°  51'16'39	5.92311 AU
max. Earth dist.	5706 Dec 15 19:06	25°  57'32'36	6.47424 AU	morning rise	5712 Jun 13 00:27	15°  51'16'03	
					5712 Aug 20 07:52	0° 	
conjunction	5706 Dec 17 06:59	25°  57'51'58	0°44'49	retrograde	5712 Oct 23 10:09	6°  51'05'01	
minimum elong	5706 Dec 17 07:00	25°  57'51'59	0°44'50	opposition	5712 Dec 21 22:46	1°  51'02'01	-1°01'40
morning rise	5706 Dec 30 02:36	28°  57'37'45		min. Earth dist.	5712 Dec 20 19:30	1°  51'11'16	3.93556 AU
	5707 Jan 05 12:34	0° 			5712 Dec 29 15:10	30°  51'00'21	
retrograde	5707 Apr 29 11:07	15°  57'20'54		direct	5713 Feb 17 19:24	26°  51'07'07	
opposition	5707 Jun 29 09:34	10°  57'28'18	0°50'32		5713 Apr 07 20:51	0° 	
min. Earth dist.	5707 Jun 30 16:33	10°  57'18'25	4.44822 AU	evening set	5713 Jun 24 05:11	15°  51'05'64'46	
direct	5707 Aug 31 02:58	5° 					
evening set	5708 Jan 03 17:26	22°  57'33		conjunction	5713 Jul 07 19:44	19°  51'12'02	-0°27'21
max. Earth dist.	5708 Jan 14 09:59	25°  57'18'13	6.40262 AU	minimum elong	5713 Jul 07 19:46	19°  51'12'03	0°27'23
				max. Earth dist.	5713 Jul 10 01:26	19°  51'12'44'11	5.97208 AU

morning rise	5713 Jul 21 12:34	22°♌28'20		direct	5719 Sep 04 08:25	9°♊38'27	
	5713 Aug 23 09:52	0°♏		evening set	5720 Jan 07 20:34	27°♊11'42	
retrograde	5713 Nov 29 05:47	12°♏41'14		max. Earth dist.	5720 Jan 18 09:54	29°♊31'07	6.38725 AU
min. Earth dist.	5714 Jan 26 03:54	7°♏49'20	4.03039 AU				
opposition	5714 Jan 27 17:04	7°♏36'41	-0°16'16	conjunction	5720 Jan 20 14:51	0°♊00'22	0°18'15
direct	5714 Mar 26 23:23	2°♏39'15		minimum elong	5720 Jan 20 14:52	0°♊00'23	0°18'16
asc. node	5714 Jun 05 04:26	9°♏54'28			5720 Jan 20 14:11	0°♊	
	5714 Jun 30 16:38	15°♏		morning rise	5720 Feb 02 07:28	2°♊48'26	
evening set	5714 Jul 31 13:37	21°♏54'15			5720 Apr 04 06:46	15°♊	
				retrograde	5720 Jun 03 14:50	20°♊10'19	
conjunction	5714 Aug 14 06:41	25°♏04'34	0°05'56	opposition	5720 Aug 03 13:01	15°♊17'51	0°05'19
minimum elong	5714 Aug 14 06:40	25°♏04'33	0°05'56	min. Earth dist.	5720 Aug 05 03:35	15°♊05'32	4.32120 AU
behind sun begin	5714 Aug 13 22:41	24°♏59'58			5720 Aug 05 20:54	15°♊	
behind sun end	5714 Aug 14 14:38	25°♏09'09		desc. node	5720 Sep 19 13:46	10°♊39'17	
max. Earth dist.	5714 Aug 16 15:25	25°♏37'24	6.10324 AU	direct	5720 Oct 04 15:16	10°♊18'18	
morning rise	5714 Aug 28 00:49	28°♏15'01			5720 Dec 01 07:12	15°♊	
	5714 Sep 04 16:54	0°♏		evening set	5721 Feb 07 02:49	28°♊25'29	
retrograde	5715 Jan 02 10:02	17°♏18'29			5721 Feb 14 01:14	0°♊	
min. Earth dist.	5715 Mar 01 18:41	12°♏26'00	4.18322 AU	max. Earth dist.	5721 Feb 17 16:56	0°♊50'02	6.24483 AU
opposition	5715 Mar 03 03:31	12°♏14'53	0°32'20				
direct	5715 May 01 12:36	7°♏14'51		conjunction	5721 Feb 19 20:15	1°♊19'21	-0°11'55
evening set	5715 Sep 05 02:30	25°♏43'48		minimum elong	5721 Feb 19 20:15	1°♊19'21	0°11'55
				behind sun begin	5721 Feb 19 14:39	1°♊16'10	
conjunction	5715 Sep 18 17:04	28°♏45'47	0°35'32	behind sun end	5721 Feb 20 01:50	1°♊22'32	
minimum elong	5715 Sep 18 17:02	28°♏45'46	0°35'33	morning rise	5721 Mar 04 13:01	4°♊13'13	
max. Earth dist.	5715 Sep 20 10:49	29°♏09'07	6.26455 AU	retrograde	5721 Jul 08 00:18	22°♊37'43	
	5715 Sep 24 06:02	0°♏		opposition	5721 Sep 06 15:22	17°♊43'53	-0°39'34
morning rise	5715 Oct 02 06:41	1°♏47'03		min. Earth dist.	5721 Sep 08 00:33	17°♊33'11	4.16291 AU
retrograde	5716 Feb 03 06:00	19°♏39'46		direct	5721 Nov 06 13:31	12°♊46'38	
opposition	5716 Apr 03 07:46	14°♏39'13	1°07'09		5722 Mar 05 00:20	0°♊	
min. Earth dist.	5716 Apr 02 13:04	14°♏45'26	4.33851 AU	evening set	5722 Mar 12 03:20	1°♊39'46	
direct	5716 Jun 03 01:26	9°♏37'35		max. Earth dist.	5722 Mar 23 10:43	4°♊19'51	6.08383 AU
evening set	5716 Oct 07 11:21	27°♏26'05					
	5716 Oct 19 07:14	0°♏		conjunction	5722 Mar 24 22:40	4°♊41'08	-0°39'43
				minimum elong	5722 Mar 24 22:39	4°♊41'07	0°39'43
conjunction	5716 Oct 20 19:57	0°♏19'57	0°52'52	morning rise	5722 Apr 06 19:01	7°♊43'17	
minimum elong	5716 Oct 20 19:56	0°♏19'57	0°52'52	retrograde	5722 Aug 13 20:20	27°♊22'27	
max. Earth dist.	5716 Oct 21 08:51	0°♏26'58	6.40160 AU	opposition	5722 Oct 13 02:01	22°♊25'55	-1°14'10
morning rise	5716 Nov 03 02:45	3°♏12'43		min. Earth dist.	5722 Oct 13 15:52	22°♊21'23	4.01288 AU
	5717 Jan 02 22:08	15°♏		direct	5722 Dec 11 11:52	17°♊30'57	
retrograde	5717 Mar 04 12:29	20°♏14'15			5723 Mar 16 19:21	0°♊	
opposition	5717 May 03 23:14	15°♏17'15	1°20'51	evening set	5723 Apr 16 09:53	7°♊07'51	
min. Earth dist.	5717 May 03 23:59	15°♏17'01	4.44849 AU				
	5717 May 06 04:06	15°♏		conjunction	5723 Apr 29 10:36	10°♊17'13	-0°54'35
direct	5717 Jul 04 21:37	10°♏15'00		minimum elong	5723 Apr 29 10:36	10°♊17'13	0°54'36
	5717 Sep 01 22:20	15°♏		max. Earth dist.	5723 Apr 29 07:05	10°♊15'05	5.95879 AU
evening set	5717 Nov 08 00:08	27°♏38'33		morning rise	5723 May 12 13:29	13°♊27'58	
	5717 Nov 19 00:18	0°♏			5723 May 18 22:53	15°♊	
max. Earth dist.	5717 Nov 20 11:57	0°♏19'09	6.47648 AU		5723 Jul 31 12:21	0°♊	
				retrograde	5723 Sep 21 10:32	4°♊05'38	
conjunction	5717 Nov 21 02:40	0°♏27'03	0°54'52		5723 Nov 13 08:28	30°♊	
minimum elong	5717 Nov 21 02:40	0°♏27'04	0°54'54	opposition	5723 Nov 20 04:14	29°♊05'31	-1°21'54
morning rise	5717 Dec 04 02:32	3°♏14'18		min. Earth dist.	5723 Nov 19 18:22	29°♊08'49	3.92691 AU
retrograde	5718 Apr 03 06:20	19°♏52'33		direct	5724 Jan 17 10:13	24°♊11'33	
opposition	5718 Jun 03 01:20	14°♏58'28	1°12'50		5724 Mar 18 09:44	0°♊	
min. Earth dist.	5718 Jun 03 19:58	14°♏52'28	4.48487 AU	evening set	5724 May 22 15:13	14°♊10'09	
direct	5718 Aug 04 16:11	9°♏56'28					
evening set	5718 Dec 08 11:35	27°♏14'33		conjunction	5724 Jun 04 23:46	17°♊25'02	-0°48'27
max. Earth dist.	5718 Dec 19 17:47	29°♏40'06	6.47135 AU	minimum elong	5724 Jun 04 23:47	17°♊25'03	0°48'28
				max. Earth dist.	5724 Jun 06 08:21	17°♊44'53	5.92036 AU
conjunction	5718 Dec 21 08:57	0°♊01'16	0°42'18	morning rise	5724 Jun 18 11:07	20°♊41'25	
minimum elong	5718 Dec 21 08:59	0°♊01'17	0°42'18		5724 Jul 28 21:44	0°♊	
	5718 Dec 21 06:36	0°♊		retrograde	5724 Oct 28 19:22	11°♊29'29	
morning rise	5719 Jan 03 04:03	2°♊46'58		min. Earth dist.	5724 Dec 26 00:27	6°♊36'25	3.94168 AU
retrograde	5719 May 03 16:28	19°♊32'04		opposition	5724 Dec 27 06:55	6°♊26'05	-0°56'11
opposition	5719 Jul 03 14:24	14°♊39'35	0°45'52	direct	5725 Feb 23 02:47	1°♊30'53	
min. Earth dist.	5719 Jul 05 00:17	14°♊28'47	4.43884 AU	evening set	5725 Jun 29 14:31	21°♊17'29	

conjunction	5725 Jul 13 05:38	24° \mathfrak{D} 32'23	-0°22'52	minimum elong	5730 Dec 25 13:44	4° \mathfrak{Z} 17'17	0°39'31
minimum elong	5725 Jul 13 05:39	24° \mathfrak{D} 32'24	0°22'54	morning rise	5731 Jan 07 08:14	7° \mathfrak{Z} 03'05	
max. Earth dist.	5725 Jul 15 12:44	25° \mathfrak{D} 05'15	5.98610 AU	retrograde	5731 May 07 23:31	23° \mathfrak{Z} 51'45	
morning rise	5725 Jul 26 23:10	27° \mathfrak{D} 48'14		opposition	5731 Jul 07 22:39	18° \mathfrak{Z} 59'23	0°40'49
	5725 Aug 05 07:43	0° \mathfrak{Q}		min. Earth dist.	5731 Jul 09 09:11	18° \mathfrak{Z} 48'21	4.42549 AU
	5725 Oct 22 09:29	15° \mathfrak{Q}		direct	5731 Sep 08 14:12	13° \mathfrak{Z} 58'27	
retrograde	5725 Dec 04 05:22	17° \mathfrak{Q} 52'27			5732 Jan 04 20:11	0° \mathfrak{Z}	
	5726 Jan 16 00:28	15° \mathfrak{R} \mathfrak{Q}		evening set	5732 Jan 12 03:41	1° \mathfrak{Z} 35'51	
min. Earth dist.	5726 Jan 31 04:29	13° \mathfrak{Q} 00'37	4.05034 AU	max. Earth dist.	5732 Jan 22 16:16	3° \mathfrak{Z} 55'28	6.36900 AU
opposition	5726 Feb 01 18:17	12° \mathfrak{Q} 47'44	-0°09'01				
direct	5726 Apr 01 03:54	7° \mathfrak{Q} 49'50		conjunction	5732 Jan 24 21:41	4° \mathfrak{Z} 25'08	0°14'13
asc. node	5726 Apr 14 00:36	8° \mathfrak{Q} 06'40		minimum elong	5732 Jan 24 21:42	4° \mathfrak{Z} 25'08	0°14'14
	5726 Jun 10 02:57	15° \mathfrak{Q}		behind sun begin	5732 Jan 24 17:48	4° \mathfrak{Z} 22'59	
evening set	5726 Aug 05 17:36	26° \mathfrak{Q} 58'00		behind sun end	5732 Jan 25 01:37	4° \mathfrak{Z} 27'18	
	5726 Aug 18 22:12	0° \mathfrak{R}		morning rise	5732 Feb 06 14:11	7° \mathfrak{Z} 13'53	
					5732 Mar 14 10:21	15° \mathfrak{Z}	
conjunction	5726 Aug 19 10:41	0° \mathfrak{R} 07'11	0°10'38	retrograde	5732 Jun 08 07:47	24° \mathfrak{Z} 43'37	
minimum elong	5726 Aug 19 10:40	0° \mathfrak{R} 07'10	0°10'37	desc. node	5732 Jul 30 03:39	20° \mathfrak{Z} 59'35	
behind sun begin	5726 Aug 19 04:17	0° \mathfrak{R} 03'30		opposition	5732 Aug 08 04:13	19° \mathfrak{Z} 51'08	-0°01'01
behind sun end	5726 Aug 19 17:04	0° \mathfrak{R} 10'50		min. Earth dist.	5732 Aug 09 19:49	19° \mathfrak{Z} 38'28	4.29900 AU
max. Earth dist.	5726 Aug 21 19:46	0° \mathfrak{R} 40'03	6.12712 AU		5732 Sep 29 19:28	15° \mathfrak{R} \mathfrak{Z}	
morning rise	5726 Sep 02 04:17	3° \mathfrak{R} 16'19		direct	5732 Oct 09 04:14	14° \mathfrak{Z} 51'54	
retrograde	5727 Jan 07 01:38	22° \mathfrak{R} 08'28			5732 Oct 18 12:24	15° \mathfrak{Z}	
opposition	5727 Mar 07 19:53	17° \mathfrak{R} 05'13	0°38'23		5733 Jan 28 20:27	0° \mathfrak{R}	
min. Earth dist.	5727 Mar 06 12:40	17° \mathfrak{R} 15'45	4.20831 AU	evening set	5733 Feb 11 15:05	3° \mathfrak{R} 05'42	
direct	5727 May 06 09:58	12° \mathfrak{R} 04'54		max. Earth dist.	5733 Feb 22 05:21	5° \mathfrak{R} 31'11	6.22046 AU
	5727 Sep 07 22:16	0° \mathfrak{Q}					
evening set	5727 Sep 09 22:36	0° \mathfrak{Q} 26'39		conjunction	5733 Feb 24 08:38	6° \mathfrak{R} 00'37	-0°16'13
				minimum elong	5733 Feb 24 08:37	6° \mathfrak{R} 00'37	0°16'12
conjunction	5727 Sep 23 12:16	3° \mathfrak{Q} 27'16	0°38'51	behind sun begin	5733 Feb 24 07:57	6° \mathfrak{R} 00'14	
minimum elong	5727 Sep 23 12:14	3° \mathfrak{Q} 27'15	0°38'52	behind sun end	5733 Feb 24 09:16	6° \mathfrak{R} 00'59	
max. Earth dist.	5727 Sep 25 01:50	3° \mathfrak{Q} 48'08	6.28852 AU	morning rise	5733 Mar 09 01:49	8° \mathfrak{R} 55'39	
morning rise	5727 Oct 07 01:06	6° \mathfrak{Q} 27'09		retrograde	5733 Jul 13 00:15	27° \mathfrak{R} 31'05	
retrograde	5728 Feb 07 12:49	24° \mathfrak{Q} 10'28		opposition	5733 Sep 11 15:06	22° \mathfrak{R} 36'59	-0°45'29
opposition	5728 Apr 07 16:48	19° \mathfrak{Q} 10'24	1°10'24	min. Earth dist.	5733 Sep 12 21:21	22° \mathfrak{R} 27'13	4.13833 AU
min. Earth dist.	5728 Apr 07 00:42	19° \mathfrak{Q} 15'45	4.35962 AU	direct	5733 Nov 11 07:22	17° \mathfrak{R} 40'08	
direct	5728 Jun 07 15:02	14° \mathfrak{Q} 08'36			5734 Feb 15 16:34	0° \mathfrak{Y}	
	5728 Oct 03 06:09	0° \mathfrak{R}		evening set	5734 Mar 16 23:34	6° \mathfrak{Y} 40'44	
evening set	5728 Oct 11 23:36	1° \mathfrak{R} 51'56					
				conjunction	5734 Mar 29 19:31	9° \mathfrak{Y} 43'21	-0°42'51
conjunction	5728 Oct 25 07:26	4° \mathfrak{R} 44'47	0°54'04	minimum elong	5734 Mar 29 19:30	9° \mathfrak{Y} 43'20	0°42'51
minimum elong	5728 Oct 25 07:25	4° \mathfrak{R} 44'47	0°54'05	max. Earth dist.	5734 Mar 28 12:32	9° \mathfrak{Y} 24'55	6.06142 AU
max. Earth dist.	5728 Oct 25 17:15	4° \mathfrak{R} 50'06	6.41834 AU	morning rise	5734 Apr 11 16:31	12° \mathfrak{Y} 46'49	
morning rise	5728 Nov 07 13:02	7° \mathfrak{R} 36'28			5734 Jul 09 01:35	0° \mathfrak{Z}	
	5728 Dec 13 12:01	15° \mathfrak{R}		retrograde	5734 Aug 19 07:13	2° \mathfrak{Z} 36'29	
retrograde	5729 Mar 08 15:57	24° \mathfrak{R} 32'30			5734 Sep 29 19:27	30° \mathfrak{R} \mathfrak{Y}	
opposition	5729 May 08 04:25	19° \mathfrak{R} 36'02	1°20'57	opposition	5734 Oct 18 09:34	27° \mathfrak{Y} 39'33	-1°17'13
min. Earth dist.	5729 May 08 07:35	19° \mathfrak{R} 35'00	4.45991 AU	min. Earth dist.	5734 Oct 18 20:50	27° \mathfrak{Y} 35'50	3.99502 AU
	5729 Jun 22 07:30	15° \mathfrak{R} \mathfrak{R}		direct	5734 Dec 16 15:33	22° \mathfrak{Y} 44'53	
direct	5729 Jul 09 05:58	14° \mathfrak{R} 33'51			5735 Feb 24 07:00	0° \mathfrak{Z}	
	5729 Jul 26 07:59	15° \mathfrak{R}		evening set	5735 Apr 21 14:03	12° \mathfrak{Z} 26'49	
	5729 Nov 03 05:34	0° \mathfrak{Z}			5735 May 02 02:38	15° \mathfrak{Z}	
evening set	5729 Nov 12 07:11	1° \mathfrak{Z} 55'02					
				conjunction	5735 May 04 15:47	15° \mathfrak{Z} 37'11	-0°55'05
conjunction	5729 Nov 25 08:45	4° \mathfrak{Z} 43'00	0°53'54	minimum elong	5735 May 04 15:47	15° \mathfrak{Z} 37'11	0°55'06
minimum elong	5729 Nov 25 08:45	4° \mathfrak{Z} 43'01	0°53'56	max. Earth dist.	5735 May 04 17:43	15° \mathfrak{Z} 38'22	5.94744 AU
max. Earth dist.	5729 Nov 24 12:34	4° \mathfrak{Z} 32'10	6.48167 AU	morning rise	5735 May 17 19:52	18° \mathfrak{Z} 49'00	
morning rise	5729 Dec 08 07:59	7° \mathfrak{Z} 29'47			5735 Jul 06 07:28	0° \mathfrak{R}	
retrograde	5730 Apr 07 11:44	24° \mathfrak{Z} 07'04		retrograde	5735 Sep 26 21:26	9° \mathfrak{R} 31'10	
opposition	5730 Jun 07 06:27	19° \mathfrak{Z} 13'20	1°10'04	opposition	5735 Nov 25 14:26	4° \mathfrak{R} 30'34	-1°20'12
min. Earth dist.	5730 Jun 08 04:31	19° \mathfrak{Z} 06'15	4.48368 AU	min. Earth dist.	5735 Nov 25 00:17	4° \mathfrak{R} 35'18	3.92383 AU
direct	5730 Aug 08 23:31	14° \mathfrak{Z} 11'25			5736 Jan 07 15:56	30° \mathfrak{R} \mathfrak{Z}	
	5730 Dec 05 15:19	0° \mathfrak{Z}		direct	5736 Jan 22 16:38	29° \mathfrak{Z} 36'36	
evening set	5730 Dec 12 16:44	1° \mathfrak{Z} 30'26			5736 Feb 06 18:49	0° \mathfrak{R}	
max. Earth dist.	5730 Dec 23 20:11	3° \mathfrak{Z} 54'46	6.46383 AU	evening set	5736 May 27 23:36	19° \mathfrak{R} 34'51	
conjunction	5730 Dec 25 13:43	4° \mathfrak{Z} 17'16	0°39'29	conjunction	5736 Jun 10 09:05	22° \mathfrak{R} 49'58	-0°45'49

minimum elong	5736 Jun 10 09:06	22° Π 49'59	0°45'50	opposition	5742 Jun 11 11:06	23° X 26'43	1°07'00
max. Earth dist.	5736 Jun 11 21:19	23° Π 11'59	5.92569 AU	min. Earth dist.	5742 Jun 12 10:58	23° X 19'04	4.47797 AU
morning rise	5736 Jun 23 21:34	26° Π 06'34		direct	5742 Aug 13 04:20	18° X 24'57	
	5736 Jul 10 06:16	0° E			5742 Nov 19 05:55	0° Z	
retrograde	5736 Nov 03 00:34	16° E 50'16		evening set	5742 Dec 16 22:00	5° Z 46'10	
min. Earth dist.	5736 Dec 31 04:14	11° E 57'35	3.95472 AU	max. Earth dist.	5742 Dec 27 21:32	8° Z 08'52	6.45243 AU
opposition	5737 Jan 01 12:56	11° E 46'28	-0°50'21				
direct	5737 Feb 28 10:18	6° E 50'53		conjunction	5742 Dec 29 18:21	8° Z 33'13	0°36'30
evening set	5737 Jul 04 21:04	26° E 32'00		minimum elong	5742 Dec 29 18:23	8° Z 33'14	0°36'32
				morning rise	5743 Jan 11 12:39	11° Z 19'22	
conjunction	5737 Jul 18 12:51	29° E 46'14	-0°18'20	retrograde	5743 May 12 10:20	28° Z 12'51	
minimum elong	5737 Jul 18 12:52	29° E 46'15	0°18'21	opposition	5743 Jul 12 08:16	23° Z 20'34	0°35'32
	5737 Jul 19 12:04	0° Ω		min. Earth dist.	5743 Jul 13 20:46	23° Z 08'55	4.40909 AU
max. Earth dist.	5737 Jul 20 22:41	0° Ω 20'33	6.00555 AU	direct	5743 Sep 12 23:27	18° Z 19'49	
morning rise	5737 Aug 01 06:31	3° Ω 01'14			5743 Dec 19 05:25	0° \approx	
	5737 Sep 25 13:21	15° Ω		evening set	5744 Jan 16 11:34	6° \approx 02'04	
retrograde	5737 Dec 09 02:27	22° Ω 54'54		max. Earth dist.	5744 Jan 26 23:48	8° \approx 22'08	6.34889 AU
min. Earth dist.	5738 Feb 05 02:29	18° Ω 02'50	4.07378 AU				
opposition	5738 Feb 06 15:33	17° Ω 50'14	-0°01'58	conjunction	5744 Jan 29 05:32	8° \approx 52'05	0°10'06
asc. node	5738 Feb 22 06:30	15° Ω 46'46		minimum elong	5744 Jan 29 05:32	8° \approx 52'05	0°10'07
	5738 Feb 28 22:28	15° R Ω		behind sun begin	5744 Jan 28 23:07	8° \approx 48'31	
direct	5738 Apr 06 05:06	12° Ω 51'56		behind sun end	5744 Jan 29 11:57	8° \approx 55'38	
	5738 May 12 16:06	15° Ω		morning rise	5744 Feb 10 21:55	11° \approx 41'36	
	5738 Aug 02 11:12	0° P			5744 Feb 26 00:16	15° \approx	
evening set	5738 Aug 10 17:49	1° P 52'28		desc. node	5744 Jun 08 21:27	29° \approx 18'11	
				retrograde	5744 Jun 12 23:49	29° \approx 19'46	
conjunction	5738 Aug 24 10:32	5° P 00'22	0°15'05	opposition	5744 Aug 12 20:51	24° \approx 27'08	-0°07'25
minimum elong	5738 Aug 24 10:31	5° P 00'21	0°15'05	min. Earth dist.	5744 Aug 14 10:45	24° \approx 15'00	4.27663 AU
behind sun begin	5738 Aug 24 07:58	4° P 58'54		direct	5744 Oct 13 16:06	19° \approx 28'15	
behind sun end	5738 Aug 24 13:04	5° P 01'48			5745 Jan 11 10:01	0° X	
max. Earth dist.	5738 Aug 26 17:17	5° P 31'41	6.15225 AU	evening set	5745 Feb 16 04:48	7° X 48'32	
morning rise	5738 Sep 07 03:45	8° P 08'08		max. Earth dist.	5745 Feb 26 21:58	10° X 16'26	6.19766 AU
retrograde	5739 Jan 11 11:08	26° P 49'02					
min. Earth dist.	5739 Mar 11 02:12	21° P 56'10	4.23283 AU	conjunction	5745 Feb 28 22:27	10° X 44'25	-0°20'25
opposition	5739 Mar 12 08:05	21° P 46'07	0°43'55	minimum elong	5745 Feb 28 22:26	10° X 44'25	0°20'24
direct	5739 May 11 02:29	16° P 45'28		morning rise	5745 Mar 13 15:57	13° X 40'32	
	5739 Aug 22 08:01	0° $\underline{\text{A}}$			5745 Jun 08 01:07	0° Y	
evening set	5739 Sep 14 14:36	5° $\underline{\text{A}}$ 00'33		retrograde	5745 Jul 18 03:39	2° Y 26'14	
					5745 Aug 27 14:45	30° R X	
conjunction	5739 Sep 28 03:35	7° $\underline{\text{A}}$ 59'56	0°41'49	opposition	5745 Sep 16 16:01	27° X 31'49	-0°51'06
minimum elong	5739 Sep 28 03:34	7° $\underline{\text{A}}$ 59'55	0°41'49	min. Earth dist.	5745 Sep 17 20:43	27° X 22'31	4.11683 AU
max. Earth dist.	5739 Sep 29 13:09	8° $\underline{\text{A}}$ 18'29	6.31055 AU	direct	5745 Nov 16 04:45	22° X 35'17	
morning rise	5739 Oct 11 15:23	10° $\underline{\text{A}}$ 58'28			5746 Jan 26 23:19	0° Y	
retrograde	5740 Feb 11 18:24	28° $\underline{\text{A}}$ 33'30		evening set	5746 Mar 21 20:14	11° Y 41'59	
opposition	5740 Apr 11 22:58	23° $\underline{\text{A}}$ 33'59	1°13'09				
min. Earth dist.	5740 Apr 11 10:08	23° $\underline{\text{A}}$ 38'13	4.37755 AU	conjunction	5746 Apr 03 16:49	14° Y 45'39	-0°45'39
direct	5740 Jun 12 02:19	18° $\underline{\text{A}}$ 32'04		minimum elong	5746 Apr 03 16:48	14° Y 45'39	0°45'40
	5740 Sep 16 14:36	0° M		max. Earth dist.	5746 Apr 02 13:42	14° Y 29'29	6.04312 AU
evening set	5740 Oct 16 09:01	6° M 11'15		morning rise	5746 Apr 16 14:37	17° Y 50'17	
					5746 Jun 11 06:52	0° B	
conjunction	5740 Oct 29 15:54	9° M 03'15	0°54'57	retrograde	5746 Aug 24 14:41	7° B 48'32	
minimum elong	5740 Oct 29 15:53	9° M 03'15	0°54'58	opposition	5746 Oct 23 16:25	2° B 51'07	-1°19'36
max. Earth dist.	5740 Oct 29 20:12	9° M 05'35	6.43079 AU	min. Earth dist.	5746 Oct 23 23:31	2° B 48'47	3.98191 AU
morning rise	5740 Nov 11 20:40	11° M 54'05			5746 Nov 15 19:01	30° R Y	
	5740 Nov 26 11:36	15° M		direct	5746 Dec 21 16:53	27° Y 56'42	
retrograde	5741 Mar 12 18:24	28° M 46'10			5747 Jan 26 05:12	0° B	
opposition	5741 May 12 07:56	23° M 50'07	1°20'40		5747 Apr 15 11:00	15° B	
min. Earth dist.	5741 May 12 14:08	23° M 48'06	4.46649 AU	evening set	5747 Apr 26 17:08	17° B 41'53	
direct	5741 Jul 13 12:13	18° M 47'53					
	5741 Oct 17 17:39	0° X		conjunction	5747 May 09 19:44	20° B 53'00	-0°55'06
evening set	5741 Nov 16 12:49	6° X 08'12		minimum elong	5747 May 09 19:44	20° B 53'00	0°55'08
				max. Earth dist.	5747 May 10 02:08	20° B 56'54	5.94052 AU
conjunction	5741 Nov 29 13:49	8° X 55'54	0°52'42	morning rise	5747 May 23 00:58	24° B 05'38	
minimum elong	5741 Nov 29 13:50	8° X 55'55	0°52'43		5747 Jun 17 01:30	0° Π	
max. Earth dist.	5741 Nov 28 15:08	8° X 43'43	6.48202 AU	retrograde	5747 Oct 02 05:27	14° Π 50'34	
morning rise	5741 Dec 12 12:10	11° X 42'23		opposition	5747 Nov 30 22:11	9° Π 49'26	-1°17'49
retrograde	5742 Apr 11 14:59	28° X 20'09		min. Earth dist.	5747 Nov 30 04:58	9° Π 55'13	3.92393 AU

direct	5748 Jan 27 23:25	4° Π 55'21		5753 Sep 28 14:20	0° X	
evening set	5748 Jun 02 05:38	24° Π 52'26		5753 Nov 20 19:40	10° X 26'03	
conjunction	5748 Jun 15 16:16	28° Π 07'43 -0°42'51		conjunction	5753 Dec 03 19:53	13° X 13'31 0°51'11
minimum elong	5748 Jun 15 16:18	28° Π 07'44 0°42'53		minimum elong	5753 Dec 03 19:54	13° X 13'32 0°51'12
max. Earth dist.	5748 Jun 17 09:43	28° Π 32'51 5.93282 AU		max. Earth dist.	5753 Dec 02 16:59	12° X 59'03 6.48104 AU
	5748 Jun 23 09:37	0° E		morning rise	5753 Dec 16 17:42	15° X 59'50
morning rise	5748 Jun 29 05:33	1° E 24'22			5754 Mar 04 16:12	0° E
retrograde	5748 Nov 08 04:30	22° E 03'11		retrograde	5754 Apr 15 21:34	2° E 38'34
min. Earth dist.	5749 Jan 05 06:26	17° E 10'31 3.96804 AU			5754 May 28 11:56	30° R X
opposition	5749 Jan 06 15:48	16° E 59'10 -0°44'14		opposition	5754 Jun 15 17:57	27° X 45'24 1°03'31
direct	5749 Mar 05 14:31	12° E 03'17		min. Earth dist.	5754 Jun 16 19:42	27° X 37'09 4.47205 AU
	5749 Jul 02 23:18	0° Ω		direct	5754 Aug 17 11:45	22° X 43'45
evening set	5749 Jul 10 01:17	1° Ω 39'28			5754 Oct 31 09:12	0° E
				evening set	5754 Dec 21 04:30	10° E 06'57
conjunction	5749 Jul 23 17:24	4° Ω 53'02 -0°13'44		max. Earth dist.	5755 Jan 01 03:41	12° E 29'47 6.44228 AU
minimum elong	5749 Jul 23 17:25	4° Ω 53'02 0°13'45				
behind sun begin	5749 Jul 23 13:06	4° Ω 50'31		conjunction	5755 Jan 03 00:33	12° E 54'14 0°33'17
behind sun end	5749 Jul 23 21:43	4° Ω 55'34		minimum elong	5755 Jan 03 00:34	12° E 54'15 0°33'19
max. Earth dist.	5749 Jul 26 03:26	5° Ω 27'18 6.02354 AU		morning rise	5755 Jan 15 18:15	15° E 40'36
morning rise	5749 Aug 06 11:29	8° Ω 07'19			5755 Apr 04 15:07	0° \approx
	5749 Sep 05 20:20	15° Ω		retrograde	5755 May 16 19:58	2° \approx 38'25
retrograde	5749 Dec 13 19:25	27° Ω 51'29			5755 Jun 28 14:08	30° R E
asc. node	5750 Jan 02 17:24	27° Ω 12'01		opposition	5755 Jul 16 19:14	27° E 46'12 0°30'01
min. Earth dist.	5750 Feb 09 21:07	22° Ω 59'39 4.09452 AU		min. Earth dist.	5755 Jul 18 07:31	27° E 34'38 4.39553 AU
opposition	5750 Feb 11 10:27	22° Ω 46'58 0°04'58		direct	5755 Sep 17 08:18	22° E 45'46
direct	5750 Apr 11 02:39	17° Ω 48'20			5755 Nov 30 04:33	0° \approx
	5750 Jul 16 03:47	0° M		evening set	5756 Jan 20 20:29	10° \approx 31'38
evening set	5750 Aug 15 16:10	6° M 42'40		max. Earth dist.	5756 Jan 31 08:20	12° \approx 52'04 6.33306 AU
conjunction	5750 Aug 29 08:37	9° M 49'28 0°19'24		conjunction	5756 Feb 02 14:03	13° \approx 22'08 0°05'56
minimum elong	5750 Aug 29 08:35	9° M 49'27 0°19'24		minimum elong	5756 Feb 02 14:03	13° \approx 22'08 0°05'57
max. Earth dist.	5750 Aug 31 12:28	10° M 19'00 6.17396 AU		behind sun begin	5756 Feb 02 06:27	13° \approx 17'54
morning rise	5750 Sep 12 01:16	12° M 56'01		behind sun end	5756 Feb 02 21:38	13° \approx 26'22
	5750 Dec 16 14:40	0° $\underline{\Omega}$			5756 Feb 09 20:54	15° \approx
retrograde	5751 Jan 15 22:56	1° $\underline{\Omega}$ 27'27		morning rise	5756 Feb 15 06:28	16° \approx 12'16
	5751 Feb 15 00:45	30° R M		desc. node	5756 Apr 19 04:01	28° \approx 52'56
opposition	5751 Mar 16 19:42	26° M 24'59 0°49'10			5756 Apr 26 15:14	0° H
min. Earth dist.	5751 Mar 15 16:44	26° M 34'02 4.25346 AU		retrograde	5756 Jun 17 18:17	3° H 57'25
direct	5751 May 15 19:34	21° M 24'08			5756 Aug 10 07:52	30° R \approx
	5751 Aug 03 20:30	0° $\underline{\Omega}$		opposition	5756 Aug 17 14:06	29° \approx 04'35 -0°13'43
evening set	5751 Sep 19 06:13	9° $\underline{\Omega}$ 34'00		min. Earth dist.	5756 Aug 19 03:34	28° \approx 52'35 4.25946 AU
				direct	5756 Oct 18 07:08	24° \approx 06'00
conjunction	5751 Oct 02 18:30	12° $\underline{\Omega}$ 32'20 0°44'32			5756 Dec 21 22:25	0° H
minimum elong	5751 Oct 02 18:29	12° $\underline{\Omega}$ 32'19 0°44'31		evening set	5757 Feb 20 17:39	12° H 30'38
max. Earth dist.	5751 Oct 04 00:39	12° $\underline{\Omega}$ 48'56 6.32845 AU		max. Earth dist.	5757 Mar 03 13:36	15° H 00'41 6.18068 AU
morning rise	5751 Oct 16 05:24	15° $\underline{\Omega}$ 29'45				
	5752 Jan 02 14:31	0° M		conjunction	5757 Mar 05 11:30	15° H 27'17 -0°24'25
retrograde	5752 Feb 15 22:56	2° M 58'02		minimum elong	5757 Mar 05 11:29	15° H 27'16 0°24'24
	5752 Mar 31 11:37	30° R $\underline{\Omega}$		morning rise	5757 Mar 18 05:14	18° H 24'13
opposition	5752 Apr 16 05:25	27° $\underline{\Omega}$ 59'01 1°15'31			5757 May 11 22:20	0° Y
min. Earth dist.	5752 Apr 15 18:32	28° $\underline{\Omega}$ 02'37 4.39170 AU		retrograde	5757 Jul 23 02:42	7° Y 17'56
direct	5752 Jun 16 11:36	22° $\underline{\Omega}$ 57'02		opposition	5757 Sep 21 15:11	2° Y 23'09 -0°56'11
	5752 Aug 28 10:00	0° M		min. Earth dist.	5757 Sep 22 16:45	2° Y 14'51 4.10149 AU
evening set	5752 Oct 20 19:06	10° M 33'19			5757 Oct 10 19:45	30° R H
				direct	5757 Nov 20 22:33	27° H 26'57
conjunction	5752 Nov 03 01:10	13° M 24'38 0°55'31			5757 Dec 31 09:44	0° Y
minimum elong	5752 Nov 03 01:09	13° M 24'37 0°55'33		evening set	5758 Mar 26 14:38	16° Y 37'27
max. Earth dist.	5752 Nov 03 01:40	13° M 24'54 6.44026 AU		max. Earth dist.	5758 Apr 07 11:58	19° Y 27'42 6.03070 AU
	5752 Nov 10 09:52	15° M				
morning rise	5752 Nov 16 04:58	16° M 14'44		conjunction	5758 Apr 08 11:36	19° Y 41'51 -0°48'01
	5753 Jan 30 11:23	0° X		minimum elong	5758 Apr 08 11:35	19° Y 41'50 0°48'01
retrograde	5753 Mar 16 23:10	3° X 03'51		morning rise	5758 Apr 21 10:10	22° Y 47'20
	5753 May 01 19:07	30° R M			5758 May 22 18:16	0° E
opposition	5753 May 16 13:03	28° M 08'18 1°19'57		retrograde	5758 Aug 29 17:55	12° E 51'51
min. Earth dist.	5753 May 16 22:10	28° M 05'21 4.47088 AU		opposition	5758 Oct 28 19:19	7° E 53'53 -1°21'14
direct	5753 Jul 17 20:15	23° M 06'09		min. Earth dist.	5758 Oct 28 23:34	7° E 52'28 3.97365 AU

direct	5758 Dec 26 17:06	2°♄59'32			5764 Aug 03 03:40	0°♍	
	5759 Mar 29 07:48	15°♄		evening set	5764 Oct 25 03:59	14°♍52'09	
evening set	5759 May 01 16:08	22°♄46'16			5764 Oct 25 18:39	15°♍	
conjunction	5759 May 14 19:49	25°♄58'00 -0°54'41		conjunction	5764 Nov 07 09:19	17°♍42'53 0°55'45	
minimum elong	5759 May 14 19:49	25°♄58'00 0°54'42		minimum elong	5764 Nov 07 09:19	17°♍42'53 0°55'46	
max. Earth dist.	5759 May 15 07:37	26°♄05'11 5.93733 AU		max. Earth dist.	5764 Nov 07 06:53	17°♍41'34 6.44767 AU	
morning rise	5759 May 28 01:56	29°♄11'14		morning rise	5764 Nov 20 12:14	20°♍32'22	
	5759 May 31 10:50	0°♂			5765 Jan 06 21:29	0°♄	
retrograde	5759 Oct 07 09:53	19°♂57'12		retrograde	5765 Mar 21 01:59	7°♄18'59	
min. Earth dist.	5759 Dec 05 05:41	15°♂01'59 3.92634 AU		opposition	5765 May 20 17:30	2°♄23'47 1°18'46	
opposition	5759 Dec 06 00:32	14°♂55'38 -1°14'53		min. Earth dist.	5765 May 21 04:01	2°♄20'23 4.47426 AU	
direct	5760 Feb 02 00:41	10°♂01'24			5765 Jun 09 01:54	30°♍	
evening set	5760 Jun 07 06:45	29°♂56'45		direct	5765 Jul 22 01:53	27°♍21'39	
	5760 Jun 07 12:09	0°♄			5765 Sep 03 08:23	0°♄	
conjunction	5760 Jun 20 18:10	3°♄12'05 -0°39'41		evening set	5765 Nov 25 01:41	14°♄41'08	
minimum elong	5760 Jun 20 18:12	3°♄12'06 0°39'43		max. Earth dist.	5765 Dec 06 20:39	17°♄12'59 6.48007 AU	
max. Earth dist.	5760 Jun 22 13:09	3°♄38'04 5.94036 AU		conjunction	5765 Dec 08 01:15	17°♄28'23 0°49'22	
morning rise	5760 Jul 04 08:31	6°♄28'49		minimum elong	5765 Dec 08 01:16	17°♄28'24 0°49'24	
retrograde	5760 Nov 13 00:55	27°♄02'44		morning rise	5765 Dec 20 22:17	20°♄14'28	
min. Earth dist.	5761 Jan 10 02:17	22°♄10'25 3.97995 AU			5766 Feb 08 02:42	0°♄	
opposition	5761 Jan 11 13:12	21°♄58'31 -0°38'07		retrograde	5766 Apr 20 02:50	6°♄53'57	
direct	5761 Mar 10 12:05	17°♄02'17		opposition	5766 Jun 19 23:53	2°♄01'00 0°59'40	
	5761 Jun 16 04:27	0°♏		min. Earth dist.	5766 Jun 21 03:30	1°♄52'10 4.46655 AU	
evening set	5761 Jul 15 00:44	6°♏34'28			5766 Jul 06 05:23	30°♍♄	
conjunction	5761 Jul 28 17:16	9°♏47'30 -0°09'16		direct	5766 Aug 21 18:26	26°♄59'29	
minimum elong	5761 Jul 28 17:17	9°♏47'31 0°09'17			5766 Oct 07 02:29	0°♄	
behind sun begin	5761 Jul 28 10:17	9°♏43'24		evening set	5766 Dec 25 09:50	14°♄24'19	
behind sun end	5761 Jul 29 00:17	9°♏51'37		max. Earth dist.	5767 Jan 05 05:23	16°♄45'37 6.43223 AU	
max. Earth dist.	5761 Jul 31 02:32	10°♏21'12 6.03877 AU		conjunction	5767 Jan 07 05:17	17°♄31'47 0°29'53	
morning rise	5761 Aug 11 11:30	13°♏01'07		minimum elong	5767 Jan 07 05:18	17°♄31'48 0°29'54	
	5761 Aug 20 00:54	15°♏		morning rise	5767 Jan 19 22:49	19°♄58'26	
	5761 Nov 07 12:59	0°♎			5767 Mar 10 18:08	0°♎	
asc. node	5761 Nov 15 04:53	0°♎51'30		retrograde	5767 May 21 06:36	7°♎00'41	
retrograde	5761 Dec 18 11:02	2°♎37'18		opposition	5767 Jul 21 05:24	2°♎08'26 0°24'18	
	5762 Jan 28 05:00	30°♎♏		min. Earth dist.	5767 Jul 22 18:31	1°♎56'36 4.38118 AU	
min. Earth dist.	5762 Feb 14 13:54	27°♏45'00 4.11137 AU			5767 Aug 07 13:47	30°♍♄	
opposition	5762 Feb 16 01:19	27°♏32'57 0°11'31		direct	5767 Sep 21 16:53	27°♄08'09	
direct	5762 Apr 15 21:55	22°♏33'59			5767 Nov 05 08:56	0°♎	
	5762 Jun 26 23:32	0°♎		evening set	5768 Jan 25 03:51	14°♎58'01	
evening set	5762 Aug 20 11:14	11°♎23'45			5768 Jan 25 07:26	15°♎	
conjunction	5762 Sep 03 03:30	14°♎29'42 0°23'24		max. Earth dist.	5768 Feb 04 16:46	17°♎19'34 6.31533 AU	
minimum elong	5762 Sep 03 03:29	14°♎29'41 0°23'25		conjunction	5768 Feb 06 21:24	17°♎49'09 0°01'42	
max. Earth dist.	5762 Sep 05 06:01	14°♎58'20 6.19116 AU		minimum elong	5768 Feb 06 21:26	17°♎49'09 0°01'43	
morning rise	5762 Sep 16 19:38	17°♎35'16		behind sun begin	5768 Feb 06 13:27	17°♎44'42	
	5762 Nov 16 22:06	0°♎		behind sun end	5768 Feb 07 05:24	17°♎53'37	
retrograde	5763 Jan 20 06:38	5°♎58'53		morning rise	5768 Feb 19 13:41	20°♎39'59	
min. Earth dist.	5763 Mar 20 02:39	1°♎05'35 4.26970 AU		desc. node	5768 Feb 28 07:52	22°♎36'42	
opposition	5763 Mar 21 04:40	0°♎56'52 0°53'53			5768 Apr 03 22:45	0°♎	
	5763 Mar 28 07:31	30°♍♎		retrograde	5768 Jun 22 10:48	8°♎33'02	
direct	5763 May 20 07:09	25°♎55'50		opposition	5768 Aug 22 06:27	3°♎40'03 -0°20'00	
	5763 Jul 12 05:00	0°♎		min. Earth dist.	5768 Aug 23 18:55	3°♎28'22 4.23936 AU	
evening set	5763 Sep 23 19:57	14°♎01'59			5768 Sep 23 12:19	30°♍♎	
conjunction	5763 Oct 07 07:26	16°♎59'26 0°46'52		direct	5768 Oct 22 18:52	28°♎41'47	
minimum elong	5763 Oct 07 07:25	16°♎59'25 0°46'52			5768 Nov 20 23:04	0°♎	
max. Earth dist.	5763 Oct 08 09:00	17°♎13'29 6.34261 AU		evening set	5769 Feb 25 06:30	17°♎12'15	
morning rise	5763 Oct 20 17:33	19°♎55'56		max. Earth dist.	5769 Mar 08 03:44	19°♎43'48 6.15970 AU	
	5763 Dec 09 11:28	0°♍		conjunction	5769 Mar 10 00:25	20°♎09'50 -0°28'18	
retrograde	5764 Feb 20 05:14	7°♍18'44		minimum elong	5769 Mar 10 00:24	20°♎09'49 0°28'18	
opposition	5764 Apr 20 11:07	2°♍20'13 1°17'21		morning rise	5769 Mar 22 18:43	23°♎07'51	
min. Earth dist.	5764 Apr 20 03:25	2°♍22'45 4.40290 AU			5769 Apr 22 10:29	0°♎	
	5764 May 08 23:18	30°♍♎		retrograde	5769 Jul 28 04:21	12°♎11'32	
direct	5764 Jun 20 21:40	27°♎18'09		opposition	5769 Sep 26 14:52	7°♎16'21 -1°01'03	

min. Earth dist.	5769 Sep 27 14:20	7° Υ 08'42	4.08122 AU	min. Earth dist.	5775 Mar 24 16:25	5° Ω 42'28	4.29225 AU
direct	5769 Nov 25 17:53	2° Υ 20'25		direct	5775 May 24 23:47	0° Ω 33'19	
evening set	5770 Mar 31 10:24	21° Υ 36'58		evening set	5775 Sep 28 10:34	18° Ω 33'16	
conjunction	5770 Apr 13 08:17	24° Υ 42'31	-0°50'07	conjunction	5775 Oct 11 21:20	21° Ω 29'32	0°49'00
minimum elong	5770 Apr 13 08:15	24° Υ 42'31	0°50'08	minimum elong	5775 Oct 11 21:19	21° Ω 29'31	0°49'01
max. Earth dist.	5770 Apr 12 13:35	24° Υ 31'18	6.01310 AU	max. Earth dist.	5775 Oct 12 21:02	21° Ω 42'30	6.36339 AU
morning rise	5770 Apr 26 07:38	27° Υ 49'11		morning rise	5775 Oct 25 06:16	24° Ω 24'43	
	5770 May 05 12:19	0° Υ			5775 Nov 20 17:45	0° Ω	
	5770 Jul 21 13:48	15° Υ		retrograde	5776 Feb 24 07:58	11° Ω 39'45	
retrograde	5770 Sep 04 01:40	18° Υ 02'04		opposition	5776 Apr 24 16:33	6° Ω 41'39	1°18'48
	5770 Oct 18 23:34	15° Υ		min. Earth dist.	5776 Apr 24 10:18	6° Ω 43'42	4.42053 AU
opposition	5770 Nov 03 00:43	13° Υ 03'41	-1°22'22	direct	5776 Jun 25 06:11	1° Ω 39'31	
min. Earth dist.	5770 Nov 03 02:17	13° Υ 03'10	3.96070 AU		5776 Oct 09 16:40	15° Ω	
direct	5770 Dec 31 18:25	8° Υ 09'31		evening set	5776 Oct 29 11:50	19° Ω 09'00	
	5771 Mar 08 20:21	15° Υ		conjunction	5776 Nov 11 16:07	21° Ω 58'49	0°55'43
evening set	5771 May 06 18:47	27° Υ 59'49		minimum elong	5776 Nov 11 16:07	21° Ω 58'49	0°55'43
	5771 May 15 00:36	0° Υ		max. Earth dist.	5776 Nov 11 09:07	21° Ω 55'03	6.46081 AU
conjunction	5771 May 19 23:24	1° Υ 12'24	-0°53'51	morning rise	5776 Nov 24 18:09	24° Ω 47'27	
minimum elong	5771 May 19 23:25	1° Υ 12'24	0°53'52		5776 Dec 19 18:42	0° Ω	
max. Earth dist.	5771 May 20 14:23	1° Υ 21'31	5.93013 AU	retrograde	5777 Mar 25 04:31	11° Ω 29'56	
morning rise	5771 Jun 02 06:55	4° Υ 26'33		opposition	5777 May 24 20:29	6° Ω 35'04	1°17'13
retrograde	5771 Oct 12 15:51	25° Υ 14'59		min. Earth dist.	5777 May 25 10:27	6° Ω 30'34	4.48204 AU
min. Earth dist.	5771 Dec 10 08:13	20° Υ 20'32	3.92594 AU	direct	5777 Jul 26 08:29	1° Ω 32'55	
opposition	5771 Dec 11 06:38	20° Υ 12'58	-1°11'19	evening set	5777 Nov 29 04:52	18° Ω 50'30	
direct	5772 Feb 07 04:20	15° Υ 18'33		max. Earth dist.	5777 Dec 10 19:20	21° Ω 19'57	6.48171 AU
	5772 May 21 08:44	0° Υ		conjunction	5777 Dec 12 03:46	21° Ω 37'25	0°47'22
evening set	5772 Jun 12 12:48	5° Υ 13'23		minimum elong	5777 Dec 12 03:47	21° Ω 37'25	0°47'24
conjunction	5772 Jun 26 01:18	8° Υ 28'54	-0°36'05	morning rise	5777 Dec 25 00:10	24° Ω 23'11	
minimum elong	5772 Jun 26 01:20	8° Υ 28'55	0°36'07		5778 Jan 21 00:21	0° Ω	
max. Earth dist.	5772 Jun 27 23:44	8° Υ 56'55	5.94686 AU	retrograde	5778 Apr 24 05:13	11° Ω 02'57	
morning rise	5772 Jul 09 16:27	11° Υ 45'41		opposition	5778 Jun 24 03:27	6° Ω 10'05	0°55'39
	5772 Oct 11 13:29	0° Υ		min. Earth dist.	5778 Jun 25 08:34	6° Ω 00'47	4.46190 AU
retrograde	5772 Nov 18 03:35	2° Υ 14'43		direct	5778 Aug 25 21:30	1° Ω 08'36	
	5772 Dec 25 13:32	30° Υ		evening set	5778 Dec 29 12:12	18° Ω 34'54	
min. Earth dist.	5773 Jan 15 03:54	27° Υ 22'17	3.99249 AU	max. Earth dist.	5779 Jan 09 06:23	20° Ω 55'47	6.42151 AU
opposition	5773 Jan 16 14:59	27° Υ 10'20	-0°31'26	conjunction	5779 Jan 11 07:19	21° Ω 22'36	0°26'26
direct	5773 Mar 15 16:41	22° Υ 13'44		minimum elong	5779 Jan 11 07:20	21° Ω 22'36	0°26'27
	5773 May 27 05:00	0° Υ		morning rise	5779 Jan 24 00:23	24° Ω 09'30	
evening set	5773 Jul 20 05:04	11° Ω 41'32			5779 Feb 20 15:15	0° Ω	
conjunction	5773 Aug 02 22:01	14° Ω 53'56	-0°04'32	retrograde	5779 May 25 14:30	11° Ω 16'39	
minimum elong	5773 Aug 02 22:02	14° Ω 53'57	0°04'34	opposition	5779 Jul 25 13:06	6° Ω 24'23	0°18'36
behind sun begin	5773 Aug 02 13:49	14° Ω 49'09		min. Earth dist.	5779 Jul 27 03:43	6° Ω 12'04	4.36474 AU
behind sun end	5773 Aug 03 06:15	14° Ω 58'44		direct	5779 Sep 25 22:38	1° Ω 24'16	
	5773 Aug 03 08:25	15° Ω		desc. node	5780 Jan 09 20:25	15° Ω 01'59	
max. Earth dist.	5773 Aug 05 09:10	15° Ω 28'34	6.05637 AU		5780 Jan 09 16:41	15° Ω	
morning rise	5773 Aug 16 16:20	18° Ω 06'45		evening set	5780 Jan 29 09:23	19° Ω 18'59	
asc. node	5773 Sep 25 00:37	26° Ω 48'44		max. Earth dist.	5780 Feb 08 20:08	21° Ω 40'04	6.29423 AU
	5773 Oct 11 09:18	0° Ω		conjunction	5780 Feb 11 02:46	22° Ω 10'55	-0°02'33
retrograde	5773 Dec 23 04:45	7° Ω 33'29		minimum elong	5780 Feb 11 02:44	22° Ω 10'54	0°02'32
min. Earth dist.	5774 Feb 19 08:03	2° Ω 41'28	4.13235 AU	behind sun begin	5780 Feb 10 18:47	22° Ω 06'26	
opposition	5774 Feb 20 19:47	2° Ω 29'21	0°18'16	behind sun end	5780 Feb 11 10:42	22° Ω 15'23	
	5774 Mar 12 02:25	30° Ω		morning rise	5780 Feb 23 19:18	25° Ω 02'39	
direct	5774 Apr 20 19:10	27° Ω 30'05			5780 Mar 17 08:11	0° Ω	
	5774 May 30 18:19	0° Ω		retrograde	5780 Jun 27 03:41	13° Ω 05'05	
evening set	5774 Aug 25 09:38	16° Ω 13'33		opposition	5780 Aug 26 21:42	8° Ω 11'50	-0°26'05
conjunction	5774 Sep 08 01:19	19° Ω 18'15	0°27'25	min. Earth dist.	5780 Aug 28 09:32	8° Ω 00'18	4.21477 AU
minimum elong	5774 Sep 08 01:17	19° Ω 18'14	0°27'25	direct	5780 Oct 27 05:37	3° Ω 13'47	
max. Earth dist.	5774 Sep 10 00:31	19° Ω 44'54	6.21386 AU	evening set	5781 Mar 01 18:31	21° Ω 51'49	
morning rise	5774 Sep 21 16:54	22° Ω 22'32		max. Earth dist.	5781 Mar 12 19:22	24° Ω 26'17	6.13374 AU
	5774 Oct 27 06:31	0° Ω		conjunction	5781 Mar 14 13:02	24° Ω 50'41	-0°31'59
retrograde	5775 Jan 24 17:10	10° Ω 36'15		minimum elong	5781 Mar 14 13:00	24° Ω 50'40	0°31'58
opposition	5775 Mar 25 15:55	5° Ω 34'36	0°58'25				

morning rise	5781 Mar 27 07:45	27° H 50'01	morning rise	5786 Sep 26 14:20	27° H 10'09	
	5781 Apr 05 16:35	0° Y		5786 Oct 09 11:03	0° A	
retrograde	5781 Aug 02 06:59	17° Y 05'40	retrograde	5787 Jan 29 02:44	15° A 13'34	
opposition	5781 Oct 01 15:13	12° Y 10'09 -1°05'30	min. Earth dist.	5787 Mar 29 05:22	10° A 19'40	4.31540 AU
min. Earth dist.	5781 Oct 02 12:50	12° Y 03'06 4.05610 AU	opposition	5787 Mar 30 03:06	10° A 12'25	1°02'35
direct	5781 Nov 30 12:37	7° Y 14'34	direct	5787 May 29 15:14	5° A 11'00	
evening set	5782 Apr 05 07:50	26° Y 39'05	evening set	5787 Oct 03 01:28	23° A 04'58	
conjunction	5782 Apr 18 06:26	29° Y 46'01 -0°51'52	conjunction	5787 Oct 16 11:08	26° A 00'01	0°50'52
minimum elong	5782 Apr 18 06:25	29° Y 46'00 0°51'53	minimum elong	5787 Oct 16 11:07	26° A 00'00	0°50'54
max. Earth dist.	5782 Apr 17 14:35	29° Y 36'27 5.99110 AU	max. Earth dist.	5787 Oct 17 05:13	26° A 09'52	6.38307 AU
	5782 Apr 19 05:38	0° B	morning rise	5787 Oct 29 19:12	28° A 54'02	
morning rise	5782 May 01 07:03	2° B 54'13		5787 Nov 03 21:39	0° M	
	5782 Jun 24 21:32	15° B		5788 Feb 02 18:32	15° M	
retrograde	5782 Sep 09 10:25	23° B 17'08	retrograde	5788 Feb 28 13:32	16° M 02'13	
opposition	5782 Nov 08 08:01	18° B 18'15 -1°22'53		5788 Mar 25 04:29	15° R M	
min. Earth dist.	5782 Nov 08 05:11	18° B 19'11 3.94434 AU	opposition	5788 Apr 28 22:55	11° M 04'37	1°19'51
	5782 Dec 05 16:23	15° R B	min. Earth dist.	5788 Apr 28 20:17	11° M 05'29	4.43554 AU
direct	5783 Jan 05 20:47	13° B 24'11	direct	5788 Jun 29 16:58	6° M 02'25	
	5783 Feb 05 19:57	15° B		5788 Sep 21 19:43	15° M	
	5783 Apr 28 04:00	0° II	evening set	5788 Nov 02 20:19	23° M 28'32	
evening set	5783 May 12 00:32	3° II 19'28				
conjunction	5783 May 25 06:31	6° II 33'05 -0°52'33	conjunction	5788 Nov 15 23:54	26° M 17'41	0°55'23
minimum elong	5783 May 25 06:32	6° II 33'05 0°52'34	minimum elong	5788 Nov 15 23:54	26° M 17'42	0°55'25
max. Earth dist.	5783 May 26 03:49	6° II 46'05 5.92121 AU	max. Earth dist.	5788 Nov 15 13:54	26° M 12'19	6.47006 AU
morning rise	5783 Jun 07 15:11	9° II 48'14	morning rise	5788 Nov 29 00:52	29° M 05'36	
	5783 Sep 28 02:46	0° E		5788 Dec 03 07:08	0° J	
retrograde	5783 Oct 18 02:38	0° E 39'20	retrograde	5789 Mar 29 07:17	15° J 45'33	
	5783 Nov 06 23:28	30° R II	opposition	5789 May 29 01:11	10° J 51'04	1°15'17
opposition	5783 Dec 16 15:32	25° II 36'50 -1°07'03	min. Earth dist.	5789 May 29 16:53	10° J 46'01	4.48520 AU
min. Earth dist.	5783 Dec 15 14:53	25° II 45'11 3.92552 AU	direct	5789 Jul 30 14:00	5° J 49'01	
direct	5784 Feb 12 12:30	20° II 42'15	evening set	5789 Dec 03 10:36	23° J 06'25	
	5784 May 01 22:30	0° E	max. Earth dist.	5789 Dec 14 20:49	25° J 33'47	6.47854 AU
evening set	5784 Jun 17 22:02	10° E 36'17				
conjunction	5784 Jul 01 11:33	13° E 51'54 -0°32'07	conjunction	5789 Dec 16 08:45	25° J 53'10	0°45'05
minimum elong	5784 Jul 01 11:35	13° E 51'55 0°32'07	minimum elong	5789 Dec 16 08:46	25° J 53'11	0°45'07
max. Earth dist.	5784 Jul 03 14:46	14° E 22'42 5.95490 AU	morning rise	5789 Dec 29 04:34	28° J 38'51	
morning rise	5784 Jul 15 03:34	17° E 08'40		5790 Jan 04 12:43	0° Z	
	5784 Sep 12 02:16	0° O	retrograde	5790 Apr 28 13:06	15° Z 20'34	
retrograde	5784 Nov 23 07:32	7° O 31'27	opposition	5790 Jun 28 10:27	10° Z 27'56	0°51'13
min. Earth dist.	5785 Jan 20 05:36	2° O 39'33 4.00794 AU	min. Earth dist.	5790 Jun 29 18:32	10° Z 17'41	4.45253 AU
opposition	5785 Jan 21 18:43	2° O 26'55 -0°24'24	direct	5790 Aug 30 05:10	5° Z 26'35	
	5785 Feb 09 15:15	30° R E	evening set	5791 Jan 02 18:19	22° Z 55'52	
direct	5785 Mar 20 21:45	27° E 29'57	max. Earth dist.	5791 Jan 13 09:20	25° Z 15'33	6.40650 AU
	5785 Apr 29 04:19	0° O				
	5785 Jul 17 08:58	15° O	conjunction	5791 Jan 15 13:05	25° Z 44'00	0°22'42
evening set	5785 Jul 25 11:26	16° O 52'07	minimum elong	5791 Jan 15 13:06	25° Z 44'01	0°22'44
asc. node	5785 Aug 03 19:18	19° O 02'20	morning rise	5791 Jan 28 06:01	28° Z 31'27	
				5791 Feb 04 00:43	0° W	
conjunction	5785 Aug 08 04:24	20° O 03'35 0°00'23		5791 May 08 01:37	15° W	
minimum elong	5785 Aug 08 04:23	20° O 03'34 0°00'23	retrograde	5791 May 30 03:22	15° W 45'03	
behind sun begin	5785 Aug 07 20:00	19° O 58'43		5791 Jun 21 05:47	15° R W	
behind sun end	5785 Aug 08 12:45	20° O 08'25	opposition	5791 Jul 30 01:45	10° W 52'42	0°12'32
max. Earth dist.	5785 Aug 10 14:30	20° O 37'25 6.07733 AU	min. Earth dist.	5791 Jul 31 16:20	10° W 40'22	4.34497 AU
morning rise	5785 Aug 21 22:43	23° O 15'20	direct	5791 Sep 30 07:33	5° W 52'47	
	5785 Sep 21 03:21	0° H	desc. node	5791 Nov 19 09:52	9° W 27'54	
retrograde	5785 Dec 27 22:30	12° H 31'18		5791 Dec 22 19:37	15° W	
min. Earth dist.	5786 Feb 24 04:24	7° H 39'02 4.15625 AU	evening set	5792 Feb 02 19:33	23° W 53'22	
opposition	5786 Feb 25 14:59	7° H 27'19 0°24'55	max. Earth dist.	5792 Feb 13 08:15	26° W 16'14	6.27124 AU
direct	5786 Apr 25 19:07	2° H 27'39				
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			minimum elong	5792 Feb 15 13:01	26° W 46'12	0°06'52
conjunction	5786 Sep 12 23:46	24° H 07'21 0°31'16	behind sun begin	5792 Feb 15 05:36	26° W 42'00	
minimum elong	5786 Sep 12 23:45	24° H 07'20 0°31'16	behind sun end	5792 Feb 15 20:27	26° W 50'24	
max. Earth dist.	5786 Sep 14 21:42	24° H 33'08 6.23853 AU	morning rise	5792 Feb 28 05:35	29° W 38'54	
				5792 Feb 29 18:59	0° H	
			retrograde	5792 Jul 02 02:19	17° H 51'26	




































































































































opposition	5792 Aug 31 18:34	12° H 57'59	-0°32'20	conjunction	5798 Sep 17 17:46	28° H 46'08	0°34'47
min. Earth dist.	5792 Sep 02 05:53	12° H 46'38	4.19015 AU	minimum elong	5798 Sep 17 17:44	28° H 46'07	0°34'48
direct	5792 Oct 31 22:25	8° H 00'19		max. Earth dist.	5798 Sep 19 11:15	29° H 09'18	6.26263 AU
evening set	5793 Mar 06 12:05	26° H 45'45			5798 Sep 23 06:08	0° A	
max. Earth dist.	5793 Mar 17 14:44	29° H 22'09	6.10960 AU	morning rise	5798 Oct 01 07:40	1° A 47'33	
				retrograde	5799 Feb 02 08:30	19° A 41'29	
conjunction	5793 Mar 19 06:52	29° H 45'47	-0°35'37	opposition	5799 Apr 03 11:03	14° A 40'46	1°06'15
minimum elong	5793 Mar 19 06:50	29° H 45'46	0°35'36	min. Earth dist.	5799 Apr 02 16:01	14° A 47'06	4.33637 AU
	5793 Mar 20 07:02	0° Y		direct	5799 Jun 03 03:45	9° A 39'09	
morning rise	5793 Apr 01 02:23	2° Y 46'28		evening set	5799 Oct 07 12:43	27° A 27'59	
retrograde	5793 Aug 07 12:57	22° Y 13'15			5799 Oct 19 05:08	0° M	
opposition	5793 Oct 06 20:22	17° Y 17'18	-1°09'41				
min. Earth dist.	5793 Oct 07 14:04	17° Y 11'31	4.03485 AU	conjunction	5799 Oct 20 21:41	0° M 22'03	0°52'24
direct	5793 Dec 05 12:16	12° Y 22'01		minimum elong	5799 Oct 20 21:40	0° M 22'02	0°52'25
	5794 Apr 02 12:34	0° B		max. Earth dist.	5799 Oct 21 12:26	0° M 30'04	6.39946 AU
evening set	5794 Apr 10 09:35	1° B 52'50		morning rise	5799 Nov 03 04:35	3° M 14'58	
					5800 Jan 02 17:24	15° M	
conjunction	5794 Apr 23 09:12	5° B 00'57	-0°53'17	retrograde	5800 Mar 04 15:59	20° M 17'39	
minimum elong	5794 Apr 23 09:11	5° B 00'56	0°53'18	opposition	5800 May 04 02:50	15° M 20'36	1°20'28
max. Earth dist.	5794 Apr 22 23:54	4° B 55'19	5.97502 AU	min. Earth dist.	5800 May 04 02:45	15° M 20'37	4.44644 AU
morning rise	5794 May 06 10:43	8° B 10'19			5800 May 06 17:59	15° R M	
	5794 Jun 04 16:47	15° B		direct	5800 Jul 05 00:00	10° M 18'26	
retrograde	5794 Sep 14 23:16	28° B 40'28			5800 Sep 01 15:02	15° M	
opposition	5794 Nov 13 18:21	23° B 41'02	-1°22'43	evening set	5800 Nov 08 02:51	27° M 42'30	
min. Earth dist.	5794 Nov 13 12:36	23° B 42'57	3.93550 AU		5800 Nov 18 19:30	0° A	
direct	5795 Jan 11 04:24	18° B 47'04					
	5795 Apr 09 17:15	0° H		conjunction	5800 Nov 21 05:29	0° A 31'10	0°54'48
evening set	5795 May 17 08:11	8° H 43'58		minimum elong	5800 Nov 21 05:30	0° A 31'10	0°54'50
				max. Earth dist.	5800 Nov 20 13:45	0° A 22'42	6.47466 AU
conjunction	5795 May 30 15:16	11° H 58'09	-0°50'50	morning rise	5800 Dec 04 05:50	3° A 18'38	
minimum elong	5795 May 30 15:17	11° H 58'10	0°50'52	retrograde	5801 Apr 03 11:55	19° A 57'41	
max. Earth dist.	5795 May 31 18:11	12° H 14'33	5.92055 AU	opposition	5801 Jun 03 05:15	15° A 03'35	1°13'01
morning rise	5795 Jun 13 01:09	15° H 13'52		min. Earth dist.	5801 Jun 04 00:28	14° A 57'24	4.48345 AU
	5795 Aug 20 12:12	0° E		direct	5801 Aug 04 20:17	10° A 01'34	
retrograde	5795 Oct 23 11:03	6° E 03'32		evening set	5801 Dec 08 15:15	27° A 20'12	
opposition	5795 Dec 21 23:50	1° E 00'36	-1°02'15	max. Earth dist.	5801 Dec 19 22:48	29° A 46'26	6.47059 AU
min. Earth dist.	5795 Dec 20 19:43	1° E 10'07	3.93343 AU		5801 Dec 20 23:54	0° B	
	5795 Dec 29 12:12	30° R H					
direct	5796 Feb 17 19:43	26° H 05'46		conjunction	5801 Dec 21 13:02	0° B 07'06	0°42'36
	5796 Apr 07 01:49	0° E		minimum elong	5801 Dec 21 13:03	0° B 07'06	0°42'37
evening set	5796 Jun 23 06:16	15° E 55'48		morning rise	5802 Jan 03 08:16	2° B 52'55	
				retrograde	5802 May 03 19:33	19° B 38'15	
conjunction	5796 Jul 06 20:23	19° E 10'59	-0°27'57	opposition	5802 Jul 03 18:03	14° B 45'45	0°46'33
minimum elong	5796 Jul 06 20:24	19° E 11'00	0°27'59	min. Earth dist.	5802 Jul 05 02:42	14° B 35'20	4.43901 AU
max. Earth dist.	5796 Jul 09 01:02	19° E 42'32	5.97030 AU	direct	5802 Sep 04 10:21	9° B 44'38	
morning rise	5796 Jul 20 13:06	22° E 27'16		evening set	5803 Jan 08 01:05	27° B 18'09	
	5796 Aug 22 12:00	0° O		max. Earth dist.	5803 Jan 18 15:24	29° B 38'03	6.38846 AU
retrograde	5796 Nov 28 06:29	12° O 40'58					
min. Earth dist.	5797 Jan 25 05:43	7° O 49'03	4.02885 AU	conjunction	5803 Jan 20 19:32	0° \approx 06'51	0°18'51
opposition	5797 Jan 26 19:15	7° O 36'16	-0°17'23	minimum elong	5803 Jan 20 19:32	0° \approx 06'52	0°18'53
direct	5797 Mar 26 01:48	2° O 38'50			5803 Jan 20 07:06	0° \approx	
asc. node	5797 Jun 13 20:39	11° O 43'39		morning rise	5803 Feb 02 12:16	2° \approx 54'57	
	5797 Jun 29 18:34	15° O			5803 Apr 04 19:53	15° \approx	
evening set	5797 Jul 30 14:14	21° O 53'43		retrograde	5803 Jun 04 19:20	20° \approx 16'06	
				opposition	5803 Aug 04 16:06	15° \approx 23'46	0°06'22
conjunction	5797 Aug 13 07:20	25° O 04'02	0°05'07	min. Earth dist.	5803 Aug 06 07:35	15° \approx 11'09	4.32346 AU
minimum elong	5797 Aug 13 07:19	25° O 04'02	0°05'06		5803 Aug 07 18:34	15° R \approx	
behind sun begin	5797 Aug 12 23:12	24° O 59'21		desc. node	5803 Sep 30 04:09	10° \approx 27'09	
behind sun end	5797 Aug 13 15:27	25° O 08'43		direct	5803 Oct 05 19:52	10° \approx 24'13	
max. Earth dist.	5797 Aug 15 17:52	25° O 37'57	6.10184 AU		5803 Dec 01 19:30	15° \approx	
morning rise	5797 Aug 27 01:13	28° O 14'29		evening set	5804 Feb 08 07:18	28° \approx 31'05	
	5797 Sep 03 18:16	0° H			5804 Feb 14 19:57	0° H	
retrograde	5798 Jan 01 13:09	17° H 18'51		max. Earth dist.	5804 Feb 18 20:09	0° H 54'50	6.24803 AU
min. Earth dist.	5798 Feb 28 21:21	12° H 26'19	4.18169 AU				
opposition	5798 Mar 02 06:22	12° H 15'10	0°31'08	conjunction	5804 Feb 21 00:47	1° H 24'52	-0°11'10
direct	5798 Apr 30 15:04	7° H 15'13		minimum elong	5804 Feb 21 00:46	1° H 24'52	0°11'09
evening set	5798 Sep 04 03:19	25° H 44'05		behind sun begin	5804 Feb 20 18:47	1° H 21'28	

behind sun end	5804 Feb 21 06:46	1° H 28'16	retrograde	5810 Jan 07 00:17	22° H 03'04	
morning rise	5804 Mar 04 17:40	4° H 18'39	min. Earth dist.	5810 Mar 06 12:00	17° H 10'28	4.20350 AU
retrograde	5804 Jul 08 00:48	22° H 41'23	opposition	5810 Mar 07 19:54	16° H 59'41	0°37'03
opposition	5804 Sep 06 17:09	17° H 47'40 -0°38'25	direct	5810 May 06 08:31	11° H 59'25	
min. Earth dist.	5804 Sep 08 01:28	17° H 37'14 4.16705 AU		5810 Sep 08 04:20	0° A	
direct	5804 Nov 06 15:24	12° H 50'23	evening set	5810 Sep 09 21:01	0° A 22'28	
	5805 Mar 04 22:48	0° Y				
evening set	5805 Mar 12 06:44	1° Y 42'30	conjunction	5810 Sep 23 10:55	3° A 23'23	0°38'04
max. Earth dist.	5805 Mar 23 14:55	4° Y 22'52 6.08868 AU	minimum elong	5810 Sep 23 10:53	3° A 23'22	0°38'05
			max. Earth dist.	5810 Sep 25 00:59	3° A 44'34	6.28285 AU
conjunction	5805 Mar 25 02:02	4° Y 43'38 -0°39'01	morning rise	5810 Oct 06 23:51	6° A 23'34	
minimum elong	5805 Mar 25 02:01	4° Y 43'38 0°39'01	retrograde	5811 Feb 07 15:49	24° A 09'28	
morning rise	5805 Apr 06 22:04	7° Y 45'30	opposition	5811 Apr 08 18:42	19° A 09'18	1°09'32
retrograde	5805 Aug 13 21:44	27° Y 22'08	min. Earth dist.	5811 Apr 08 02:38	19° A 14'37	4.35346 AU
opposition	5805 Oct 13 02:25	22° Y 25'47 -1°13'18	direct	5811 Jun 08 16:20	14° A 07'33	
min. Earth dist.	5805 Oct 13 17:42	22° Y 20'46 4.01802 AU		5811 Oct 04 05:58	0° M	
direct	5805 Dec 11 14:44	17° Y 30'48	evening set	5811 Oct 13 00:13	1° M 52'29	
	5806 Mar 16 23:15	0° B				
evening set	5806 Apr 16 11:19	7° B 06'04	conjunction	5811 Oct 26 08:15	4° M 45'42	0°53'39
			minimum elong	5811 Oct 26 08:14	4° M 45'42	0°53'40
conjunction	5806 Apr 29 11:46	10° B 15'05 -0°54'15	max. Earth dist.	5811 Oct 26 17:52	4° M 50'55	6.41205 AU
minimum elong	5806 Apr 29 11:45	10° B 15'05 0°54'16	morning rise	5811 Nov 08 14:21	7° M 37'48	
max. Earth dist.	5806 Apr 29 07:04	10° B 12'14 5.96375 AU		5811 Dec 14 09:19	15° M	
morning rise	5806 May 12 14:23	13° B 25'28	retrograde	5812 Mar 08 19:53	24° M 36'12	
	5806 May 19 04:01	15° B	opposition	5812 May 08 07:53	19° M 39'34	1°20'40
	5806 Jul 31 23:42	0° II	min. Earth dist.	5812 May 08 10:34	19° M 38'41	4.45405 AU
retrograde	5806 Sep 21 08:01	4° II 00'32		5812 Jun 23 14:44	15° R M	
	5806 Nov 12 15:58	30° R B	direct	5812 Jul 09 08:01	14° M 37'20	
opposition	5806 Nov 20 02:53	29° B 00'37 -1°21'48		5812 Jul 25 04:36	15° M	
min. Earth dist.	5806 Nov 19 16:58	29° B 03'55 3.93128 AU		5812 Nov 02 22:59	0° J	
direct	5807 Jan 17 08:46	24° B 06'41	evening set	5812 Nov 12 10:11	2° J 00'11	
	5807 Mar 19 21:46	0° II				
evening set	5807 May 23 14:22	14° II 03'48	conjunction	5812 Nov 25 12:14	4° J 48'30	0°53'53
			minimum elong	5812 Nov 25 12:14	4° J 48'30	0°53'55
conjunction	5807 Jun 05 22:23	17° II 18'19 -0°48'42	max. Earth dist.	5812 Nov 24 18:19	4° J 38'52	6.47685 AU
minimum elong	5807 Jun 05 22:24	17° II 18'20 0°48'43	morning rise	5812 Dec 08 11:38	7° J 35'34	
max. Earth dist.	5807 Jun 07 04:51	17° II 36'52 5.92356 AU	retrograde	5813 Apr 07 15:53	24° J 14'21	
morning rise	5807 Jun 19 09:22	20° II 34'22	opposition	5813 Jun 07 10:55	19° J 20'34	1°10'20
	5807 Jul 30 09:43	0° E	min. Earth dist.	5813 Jun 08 07:43	19° J 13'54	4.48035 AU
retrograde	5807 Oct 29 16:14	11° E 21'18	direct	5813 Aug 09 02:36	14° J 18'44	
min. Earth dist.	5807 Dec 26 23:02	6° E 28'09 3.94326 AU		5813 Dec 05 04:35	0° Z	
opposition	5807 Dec 28 05:03	6° E 17'58 -0°57'00	evening set	5813 Dec 12 21:45	1° Z 38'45	
direct	5808 Feb 24 02:09	1° E 22'49	max. Earth dist.	5813 Dec 24 01:28	4° Z 03'19	6.46251 AU
evening set	5808 Jun 29 11:40	21° E 08'41				
			conjunction	5813 Dec 25 18:48	4° Z 25'42	0°39'50
conjunction	5808 Jul 13 02:37	24° E 23'29 -0°23'39	minimum elong	5813 Dec 25 18:49	4° Z 25'43	0°39'52
minimum elong	5808 Jul 13 02:39	24° E 23'29 0°23'41	morning rise	5814 Jan 07 13:43	7° Z 11'42	
max. Earth dist.	5808 Jul 15 10:21	24° E 56'43 5.98602 AU	retrograde	5814 May 08 05:50	24° Z 00'30	
morning rise	5808 Jul 26 19:41	27° E 39'11	opposition	5814 Jul 08 03:34	19° Z 08'08	0°41'32
	5808 Aug 05 19:51	0° O	min. Earth dist.	5814 Jul 09 14:05	18° Z 57'07	4.42664 AU
	5808 Oct 23 09:41	15° O	direct	5814 Sep 08 20:14	14° Z 07'13	
retrograde	5808 Dec 04 04:39	17° O 44'10		5815 Jan 04 10:01	0° X	
	5809 Jan 14 19:49	15° R O	evening set	5815 Jan 12 09:02	1° X 44'13	
min. Earth dist.	5809 Jan 31 03:58	12° O 52'07 4.04857 AU	max. Earth dist.	5815 Jan 22 23:04	4° X 04'29	6.37293 AU
opposition	5809 Feb 01 17:05	12° O 39'29 -0°10'23				
direct	5809 Apr 01 02:24	7° O 41'43	conjunction	5815 Jan 25 03:19	4° X 33'27	0°14'52
asc. node	5809 Apr 25 05:28	8° O 39'45	minimum elong	5815 Jan 25 03:19	4° X 33'27	0°14'53
	5809 Jun 10 18:30	15° O	behind sun begin	5815 Jan 25 00:05	4° X 31'40	
evening set	5809 Aug 05 14:49	26° O 50'14	behind sun end	5815 Jan 25 06:33	4° X 35'14	
			morning rise	5815 Feb 06 19:51	7° X 22'05	
conjunction	5809 Aug 19 07:42	29° O 59'30 0°09'40		5815 Mar 15 00:17	15° X	
minimum elong	5809 Aug 19 07:41	29° O 59'29 0°09'39	retrograde	5815 Jun 09 09:31	24° X 49'49	
behind sun begin	5809 Aug 19 00:51	29° O 55'34	opposition	5815 Aug 09 07:29	19° X 57'20	0°00'06
behind sun end	5809 Aug 19 14:31	0° H 03'25	desc. node	5815 Aug 10 04:49	19° X 50'31	
	5809 Aug 19 08:35	0° H	min. Earth dist.	5815 Aug 10 21:17	19° X 45'15	4.30594 AU
max. Earth dist.	5809 Aug 21 16:06	0° H 31'59 6.12359 AU		5815 Oct 05 18:45	15° R X	
morning rise	5809 Sep 02 01:26	3° H 08'49	direct	5815 Oct 10 07:19	14° X 58'06	

	5815 Oct 14 20:03	15°♊		5821 May 15 04:57	15°♊	
	5816 Jan 29 16:46	0°♋		5821 Aug 03 10:58	0°♋	
evening set	5816 Feb 12 19:13	3°♋09'36	evening set	5821 Aug 10 11:23	1°♋35'41	
max. Earth dist.	5816 Feb 23 10:45	5°♋35'29 6.22999 AU				
			conjunction	5821 Aug 24 04:15	4°♋44'07 0°13'58	
conjunction	5816 Feb 25 12:40	6°♋04'06 -0°15'22	minimum elong	5821 Aug 24 04:14	4°♋44'07 0°13'57	
minimum elong	5816 Feb 25 12:39	6°♋04'06 0°15'21	behind sun begin	5821 Aug 24 00:11	4°♋41'48	
behind sun begin	5816 Feb 25 09:58	6°♋02'34	behind sun end	5821 Aug 24 08:16	4°♋46'25	
behind sun end	5816 Feb 25 15:20	6°♋05'38	max. Earth dist.	5821 Aug 26 10:20	5°♋15'09 6.14169 AU	
morning rise	5816 Mar 09 05:41	8°♋58'41	morning rise	5821 Sep 06 21:36	7°♋52'28	
retrograde	5816 Jul 13 00:36	27°♋29'43	retrograde	5822 Jan 11 11:38	26°♋38'24	
opposition	5816 Sep 11 15:15	22°♋35'41 -0°44'09	min. Earth dist.	5822 Mar 11 01:12	21°♋45'19 4.22108 AU	
min. Earth dist.	5816 Sep 12 22:23	22°♋25'38 4.14977 AU	opposition	5822 Mar 12 06:29	21°♋35'28 0°42'29	
direct	5816 Nov 11 10:47	17°♋38'44	direct	5822 May 10 23:48	16°♋34'59	
	5817 Feb 16 01:05	0°♌		5822 Aug 22 19:49	0°♌	
evening set	5817 Mar 17 00:04	6°♌35'17	evening set	5822 Sep 14 11:59	4°♌53'47	
max. Earth dist.	5817 Mar 28 11:42	9°♌18'13 6.07371 AU				
			conjunction	5822 Sep 28 01:19	7°♌53'49 0°40'59	
conjunction	5817 Mar 29 19:46	9°♌37'14 -0°42'03	minimum elong	5822 Sep 28 01:17	7°♌53'48 0°40'59	
minimum elong	5817 Mar 29 19:45	9°♌37'13 0°42'04	max. Earth dist.	5822 Sep 29 12:25	8°♌13'16 6.29863 AU	
morning rise	5817 Apr 11 16:28	12°♌40'00	morning rise	5822 Oct 11 13:31	10°♌53'02	
	5817 Jul 10 12:57	0°♍	retrograde	5823 Feb 11 20:13	28°♌32'40	
retrograde	5817 Aug 19 00:36	2°♍23'55	min. Earth dist.	5823 Apr 12 10:17	23°♌37'47 4.36656 AU	
	5817 Sep 27 18:44	30°♍♌	opposition	5823 Apr 13 00:48	23°♌32'59 1°12'17	
opposition	5817 Oct 18 05:10	27°♌27'06 -1°16'13	direct	5823 Jun 13 01:05	18°♌31'10	
min. Earth dist.	5817 Oct 18 16:35	27°♌23'20 4.00700 AU		5823 Sep 17 12:51	0°♎	
direct	5817 Dec 16 12:22	22°♌32'20	evening set	5823 Oct 17 10:13	6°♎13'27	
	5818 Feb 25 10:20	0°♏				
evening set	5818 Apr 21 09:55	12°♏10'05	conjunction	5823 Oct 30 17:30	9°♎05'59 0°54'31	
	5818 May 03 02:36	15°♏	minimum elong	5823 Oct 30 17:29	9°♎05'58 0°54'33	
			max. Earth dist.	5823 Oct 30 23:48	9°♎09'24 6.42169 AU	
conjunction	5818 May 04 11:07	15°♏19'45 -0°54'45	morning rise	5823 Nov 12 22:38	11°♎57'20	
minimum elong	5818 May 04 11:07	15°♏19'44 0°54'47		5823 Nov 27 06:45	15°♎	
max. Earth dist.	5818 May 04 10:33	15°♏19'24 5.95762 AU	retrograde	5824 Mar 12 23:55	28°♎52'23	
morning rise	5818 May 17 14:44	18°♏30'51	opposition	5824 May 12 12:14	23°♎56'15 1°20'23	
	5818 Jul 07 17:31	0°♐	min. Earth dist.	5824 May 12 17:33	23°♎54'31 4.45975 AU	
retrograde	5818 Sep 26 12:08	9°♐08'47	direct	5824 Jul 13 15:37	18°♎54'05	
opposition	5818 Nov 25 06:38	4°♐08'20 -1°20'15		5824 Oct 17 06:12	0°♑	
min. Earth dist.	5818 Nov 24 18:16	4°♐12'29 3.93075 AU	evening set	5824 Nov 16 16:46	6°♑16'03	
	5819 Jan 01 07:30	30°♑♏				
direct	5819 Jan 22 11:21	29°♏14'19	conjunction	5824 Nov 29 18:01	9°♑04'02 0°52'41	
	5819 Feb 12 14:11	0°♒	minimum elong	5824 Nov 29 18:01	9°♑04'02 0°52'41	
evening set	5819 May 28 15:36	19°♒10'29	max. Earth dist.	5824 Nov 28 20:03	8°♑52'14 6.47811 AU	
			morning rise	5824 Dec 12 16:50	11°♑50'50	
conjunction	5819 Jun 11 00:47	22°♒25'16 -0°46'16	retrograde	5825 Apr 11 20:38	28°♑29'32	
minimum elong	5819 Jun 11 00:48	22°♒25'17 0°46'17	opposition	5825 Jun 11 16:10	23°♑35'59 1°07'15	
max. Earth dist.	5819 Jun 12 12:06	22°♒46'43 5.92875 AU	min. Earth dist.	5825 Jun 12 14:55	23°♑28'41 4.47714 AU	
morning rise	5819 Jun 24 12:38	25°♒41'29	direct	5825 Aug 13 09:00	18°♑34'11	
	5819 Jul 12 16:37	0°♓		5825 Nov 18 15:52	0°♓	
retrograde	5819 Nov 03 17:21	16°♓24'54	evening set	5825 Dec 17 02:47	5°♓55'19	
min. Earth dist.	5819 Dec 31 22:06	11°♓31'47 3.95362 AU	max. Earth dist.	5825 Dec 28 05:40	8°♓19'40 6.45489 AU	
opposition	5820 Jan 02 04:52	11°♓21'20 -0°51'34				
direct	5820 Feb 29 02:30	6°♓25'55	conjunction	5825 Dec 29 23:30	8°♓42'23 0°36'52	
evening set	5820 Jul 04 12:22	26°♓07'56	minimum elong	5825 Dec 29 23:31	8°♓42'24 0°36'54	
			morning rise	5826 Jan 11 17:47	11°♓28'28	
conjunction	5820 Jul 18 03:47	29°♓22'17 -0°19'22	retrograde	5826 May 12 12:50	28°♓20'38	
minimum elong	5820 Jul 18 03:48	29°♓22'18 0°19'24	opposition	5826 Jul 12 12:08	23°♓28'18 0°36'19	
max. Earth dist.	5820 Jul 20 11:17	29°♓55'16 6.00039 AU	min. Earth dist.	5826 Jul 13 22:55	23°♓17'13 4.41475 AU	
	5820 Jul 20 19:15	0°♔	direct	5826 Sep 13 03:13	18°♓27'35	
morning rise	5820 Jul 31 21:27	2°♔37'32		5826 Dec 18 20:46	0°♕	
	5820 Sep 27 04:28	15°♔	evening set	5827 Jan 16 15:40	6°♕07'50	
retrograde	5820 Dec 08 20:00	22°♔34'40	max. Earth dist.	5827 Jan 27 04:10	8°♕27'49 6.35731 AU	
min. Earth dist.	5821 Feb 04 20:31	17°♔42'47 4.06545 AU				
opposition	5821 Feb 06 09:53	17°♔30'04 -0°03'40	conjunction	5827 Jan 29 09:32	8°♕57'31 0°10'48	
	5821 Feb 25 17:51	15°♕♔	minimum elong	5827 Jan 29 09:32	8°♕57'31 0°10'49	
asc. node	5821 Mar 07 14:42	13°♕57'25	behind sun begin	5827 Jan 29 03:25	8°♕54'08	
direct	5821 Apr 05 21:08	12°♕31'58	behind sun end	5827 Jan 29 15:39	9°♕00'54	

morning rise	5827 Feb 11 02:03	11° \approx 46'43	retrograde	5832 Dec 13 17:23	27° Ω 35'33	
	5827 Feb 25 19:33	15° \approx	asc. node	5833 Jan 15 13:14	25° Ω 50'32	
retrograde	5827 Jun 14 01:11	29° \approx 21'19	min. Earth dist.	5833 Feb 09 18:21	22° Ω 43'24	4.08400 AU
desc. node	5827 Jun 20 09:46	29° \approx 17'30	opposition	5833 Feb 11 06:42	22° Ω 31'01	0°03'20
opposition	5827 Aug 13 21:50	24° \approx 28'41 -0°06'10	direct	5833 Apr 10 22:26	17° Ω 32'33	
min. Earth dist.	5827 Aug 15 12:10	24° \approx 16'25 4.28718 AU		5833 Jul 17 00:32	0° Π	
direct	5827 Oct 14 19:45	19° \approx 29'40	evening set	5833 Aug 15 11:46	6° Π 30'29	
	5828 Jan 12 12:56	0° X				
evening set	5828 Feb 17 06:04	7° X 46'26	conjunction	5833 Aug 29 04:26	9° Π 37'52	0°18'21
max. Earth dist.	5828 Feb 27 23:03	10° X 13'48 6.20952 AU	minimum elong	5833 Aug 29 04:25	9° Π 37'52	0°18'21
			max. Earth dist.	5833 Aug 31 10:18	10° Π 08'37	6.16290 AU
conjunction	5828 Feb 29 23:43	10° X 41'49 -0°19'30	morning rise	5833 Sep 11 21:18	12° Π 45'02	
minimum elong	5828 Feb 29 23:42	10° X 41'48 0°19'29		5833 Dec 17 19:56	0° Ω	
morning rise	5828 Mar 13 16:59	13° X 37'20	retrograde	5834 Jan 15 22:49	1° Ω 21'02	
	5828 Jun 09 01:08	0° Υ		5834 Feb 13 21:01	30° R Π	
retrograde	5828 Jul 17 22:22	2° Υ 17'46	opposition	5834 Mar 16 19:42	26° Π 18'27	0°47'50
	5828 Aug 26 04:31	30° R X	min. Earth dist.	5834 Mar 15 14:47	26° Π 28'10	4.24328 AU
opposition	5828 Sep 16 12:39	27° X 23'25 -0°49'40	direct	5834 May 15 16:31	21° Π 17'45	
min. Earth dist.	5828 Sep 17 17:12	27° X 14'11 4.12913 AU		5834 Aug 04 05:54	0° Ω	
direct	5828 Nov 16 02:21	22° X 26'47	evening set	5834 Sep 19 05:23	9° Ω 30'24	
	5829 Jan 27 19:32	0° Υ				
evening set	5829 Mar 21 17:36	11° Υ 29'20	conjunction	5834 Oct 02 17:49	12° Ω 29'10	0°43'46
max. Earth dist.	5829 Apr 02 08:53	14° Υ 15'08 6.05462 AU	minimum elong	5834 Oct 02 17:47	12° Ω 29'09	0°43'46
			max. Earth dist.	5834 Oct 04 00:53	12° Ω 46'19	6.32023 AU
conjunction	5829 Apr 03 13:46	14° Υ 32'20 -0°44'51	morning rise	5834 Oct 16 05:05	15° Ω 27'03	
minimum elong	5829 Apr 03 13:44	14° Υ 32'20 0°44'51		5835 Jan 02 17:18	0° M	
morning rise	5829 Apr 16 11:15	17° Υ 36'17	retrograde	5835 Feb 16 03:10	2° M 58'11	
	5829 Jun 12 13:55	0° X		5835 Apr 01 14:12	30° R Ω	
retrograde	5829 Aug 24 06:05	7° X 29'27	opposition	5835 Apr 17 08:03	27° Ω 58'59	1°14'42
opposition	5829 Oct 23 09:09	2° X 32'07 -1°18'41	min. Earth dist.	5835 Apr 16 20:40	28° Ω 02'44	4.38602 AU
min. Earth dist.	5829 Oct 23 17:56	2° X 29'13 3.99121 AU	direct	5835 Jun 17 13:53	22° Ω 57'01	
	5829 Nov 12 15:02	30° R Υ		5835 Aug 29 09:51	0° M	
direct	5829 Dec 21 12:36	27° Υ 37'31	evening set	5835 Oct 21 20:13	10° M 34'15	
	5830 Jan 28 19:36	0° X				
	5830 Apr 16 17:23	15° X	conjunction	5835 Nov 04 02:38	13° M 25'48	0°55'09
evening set	5830 Apr 26 10:25	17° X 19'42	minimum elong	5835 Nov 04 02:37	13° M 25'47	0°55'11
			max. Earth dist.	5835 Nov 04 05:43	13° M 27'28	6.43752 AU
conjunction	5830 May 09 12:46	20° X 30'22 -0°54'53		5835 Nov 11 09:09	15° M	
minimum elong	5830 May 09 12:46	20° X 30'22 0°54'54	morning rise	5835 Nov 17 06:44	16° M 16'07	
max. Earth dist.	5830 May 09 17:46	20° X 33'24 5.94678 AU		5836 Jan 31 08:06	0° X	
morning rise	5830 May 22 17:24	23° X 42'28	retrograde	5836 Mar 17 01:06	3° X 05'52	
	5830 Jun 18 11:27	0° II		5836 May 02 04:15	30° R M	
retrograde	5830 Oct 01 20:58	14° II 24'53	opposition	5836 May 16 15:50	28° M 10'04	1°19'44
opposition	5830 Nov 30 12:58	9° II 23'59 -1°18'04	min. Earth dist.	5836 May 16 22:57	28° M 07'46	4.47106 AU
min. Earth dist.	5830 Nov 29 22:03	9° II 28'59 3.92632 AU	direct	5836 Jul 17 21:32	23° M 07'52	
direct	5831 Jan 27 15:23	4° II 29'54		5836 Sep 28 12:36	0° X	
evening set	5831 Jun 02 21:00	24° II 26'43	evening set	5836 Nov 20 21:25	10° X 27'04	
conjunction	5831 Jun 16 07:06	27° II 41'52 -0°43'24	conjunction	5836 Dec 03 21:52	13° X 14'30	0°51'15
minimum elong	5831 Jun 16 07:07	27° II 41'53 0°43'26	minimum elong	5836 Dec 03 21:53	13° X 14'30	0°51'16
max. Earth dist.	5831 Jun 17 20:56	28° II 04'49 5.93097 AU	max. Earth dist.	5836 Dec 02 21:19	13° X 01'18	6.48402 AU
	5831 Jun 25 19:08	0° X	morning rise	5836 Dec 16 19:46	16° X 00'45	
morning rise	5831 Jun 29 20:11	0° X 58'30		5837 Mar 04 18:15	0° X	
retrograde	5831 Nov 08 19:44	21° X 39'02	retrograde	5837 Apr 15 22:35	2° X 38'08	
min. Earth dist.	5832 Jan 05 22:52	16° X 46'26 3.96234 AU		5837 May 28 11:39	30° R X	
opposition	5832 Jan 07 08:03	16° X 35'09 -0°45'34	opposition	5837 Jun 15 19:17	27° X 44'51	1°03'55
direct	5832 Mar 05 05:23	11° X 39'23	min. Earth dist.	5837 Jun 16 20:35	27° X 36'45	4.47717 AU
	5832 Jul 04 04:26	0° Ω	direct	5837 Aug 17 13:50	22° X 43'08	
evening set	5832 Jul 09 17:30	1° Ω 18'06		5837 Oct 31 13:28	0° X	
			evening set	5837 Dec 21 05:20	10° X 04'27	
conjunction	5832 Jul 23 09:33	4° Ω 32'03 -0°14'47	max. Earth dist.	5838 Jan 01 03:22	12° X 26'30	6.44878 AU
minimum elong	5832 Jul 23 09:34	4° Ω 32'03 0°14'48				
behind sun begin	5832 Jul 23 06:28	4° Ω 30'13	conjunction	5838 Jan 03 01:22	12° X 51'31	0°33'48
behind sun end	5832 Jul 23 12:40	4° Ω 33'53	minimum elong	5838 Jan 03 01:23	12° X 51'31	0°33'50
max. Earth dist.	5832 Jul 25 18:22	5° Ω 05'41 6.01486 AU	morning rise	5838 Jan 15 19:21	15° X 37'41	
morning rise	5832 Aug 06 03:30	7° Ω 46'43		5838 Apr 05 07:43	0° \approx	
	5832 Sep 07 00:47	15° Ω	retrograde	5838 May 16 19:07	2° \approx 33'02	

	5838 Jun 27 17:11	30° κ 3		opposition	5844 Jan 12 13:46	21° ϕ 55'32	-0°39'05
opposition	5838 Jul 16 18:03	27° ϕ 40'44	0°31'03	direct	5844 Mar 10 12:58	16° ϕ 59'25	
min. Earth dist.	5838 Jul 18 06:40	27° ϕ 29'03	4.40264 AU		5844 Jun 16 06:52	0° Ω	
direct	5838 Sep 17 08:16	22° ϕ 40'04		evening set	5844 Jul 15 01:14	6° Ω 34'11	
	5838 Nov 30 18:29	0° \approx					
evening set	5839 Jan 20 19:31	10° \approx 23'56		conjunction	5844 Jul 28 17:47	9° Ω 47'33	-0°10'01
max. Earth dist.	5839 Jan 31 07:48	12° \approx 44'18	6.34000 AU	minimum elong	5844 Jul 28 17:48	9° Ω 47'34	0°10'02
				behind sun begin	5844 Jul 28 11:06	9° Ω 43'38	
conjunction	5839 Feb 02 13:21	13° \approx 14'14	0°06'49	behind sun end	5844 Jul 29 00:31	9° Ω 51'30	
minimum elong	5839 Feb 02 13:21	13° \approx 14'14	0°06'50	max. Earth dist.	5844 Jul 31 05:22	10° Ω 22'39	6.03152 AU
behind sun begin	5839 Feb 02 05:56	13° \approx 10'06		morning rise	5844 Aug 11 11:59	13° Ω 01'30	
behind sun end	5839 Feb 02 20:46	13° \approx 18'21			5844 Aug 20 00:18	15° Ω	
	5839 Feb 10 10:37	15° \approx			5844 Nov 07 05:28	0° η	
morning rise	5839 Feb 15 05:40	16° \approx 04'05		asc. node	5844 Nov 24 10:00	1° η 43'38	
	5839 Apr 28 18:14	0° χ		retrograde	5844 Dec 18 14:23	2° η 40'41	
desc. node	5839 May 02 04:05	0° χ 27'46			5845 Jan 28 19:56	30° κ 0	
retrograde	5839 Jun 18 13:28	3° χ 46'24		min. Earth dist.	5845 Feb 14 15:33	27° Ω 48'53	4.10542 AU
	5839 Aug 09 16:42	30° κ		opposition	5845 Feb 16 04:42	27° Ω 36'16	0°10'23
opposition	5839 Aug 18 09:57	28° \approx 53'39	-0°12'16	direct	5845 Apr 15 23:19	22° Ω 37'24	
min. Earth dist.	5839 Aug 20 00:03	28° \approx 41'27	4.26558 AU		5845 Jun 26 17:08	0° η	
direct	5839 Oct 19 03:25	23° \approx 54'54		evening set	5845 Aug 20 13:34	11° η 28'32	
	5839 Dec 23 23:22	0° χ					
evening set	5840 Feb 21 15:18	12° χ 18'15		conjunction	5845 Sep 03 05:44	14° η 34'39	0°22'39
max. Earth dist.	5840 Mar 03 08:39	14° χ 46'41	6.18519 AU	minimum elong	5845 Sep 03 05:43	14° η 34'38	0°22'39
				max. Earth dist.	5845 Sep 05 08:28	15° η 03'27	6.18685 AU
conjunction	5840 Mar 05 09:00	15° χ 14'41	-0°23'25	morning rise	5845 Sep 16 22:05	17° η 40'27	
minimum elong	5840 Mar 05 08:59	15° χ 14'40	0°23'25		5845 Nov 16 10:39	0° $\underline{\Omega}$	
morning rise	5840 Mar 18 02:48	18° χ 11'25		retrograde	5846 Jan 20 12:06	6° $\underline{\Omega}$ 05'44	
	5840 May 13 01:49	0° Υ		min. Earth dist.	5846 Mar 20 07:21	1° $\underline{\Omega}$ 12'19	4.26720 AU
retrograde	5840 Jul 22 21:56	7° Υ 03'08		opposition	5846 Mar 21 09:37	1° $\underline{\Omega}$ 03'30	0°52'54
opposition	5840 Sep 21 09:22	2° Υ 08'28	-0°54'50		5846 Mar 29 08:25	30° κ 0	
min. Earth dist.	5840 Sep 22 12:38	1° Υ 59'37	4.10376 AU	direct	5846 May 20 12:02	26° η 02'29	
	5840 Oct 08 11:01	30° κ 0			5846 Jul 11 13:38	0° $\underline{\Omega}$	
direct	5840 Nov 20 18:25	27° χ 12'05		evening set	5846 Sep 23 22:45	14° $\underline{\Omega}$ 08'31	
	5841 Jan 02 05:29	0° Υ					
evening set	5841 Mar 26 11:09	16° Υ 22'45		conjunction	5846 Oct 07 10:30	17° $\underline{\Omega}$ 06'04	0°46'17
max. Earth dist.	5841 Apr 07 07:31	19° Υ 12'24	6.03063 AU	minimum elong	5846 Oct 07 10:28	17° $\underline{\Omega}$ 06'03	0°46'18
				max. Earth dist.	5846 Oct 08 15:17	17° $\underline{\Omega}$ 21'53	6.34210 AU
conjunction	5841 Apr 08 08:12	19° Υ 27'11	-0°47'19	morning rise	5846 Oct 20 20:38	20° $\underline{\Omega}$ 02'36	
minimum elong	5841 Apr 08 08:11	19° Υ 27'10	0°47'19		5846 Dec 08 23:49	0° \mathbb{L}	
morning rise	5841 Apr 21 06:30	22° Υ 32'35		retrograde	5847 Feb 20 08:31	7° \mathbb{L} 25'35	
	5841 May 23 17:23	0° \mathcal{B}		opposition	5847 Apr 21 15:49	2° \mathbb{L} 26'52	1°16'43
retrograde	5841 Aug 29 13:28	12° \mathcal{B} 36'54		min. Earth dist.	5847 Apr 21 06:09	2° \mathbb{L} 30'02	4.40422 AU
opposition	5841 Oct 28 13:47	7° \mathcal{B} 39'12	-1°20'36		5847 May 11 03:08	30° κ 0	
min. Earth dist.	5841 Oct 28 19:44	7° \mathcal{B} 37'14	3.97116 AU	direct	5847 Jun 22 00:43	27° $\underline{\Omega}$ 24'50	
direct	5841 Dec 26 11:42	2° \mathcal{B} 44'51			5847 Aug 03 09:09	0° \mathbb{L}	
	5842 Mar 30 05:02	15° \mathcal{B}		evening set	5847 Oct 26 06:47	14° \mathbb{L} 57'39	
evening set	5842 May 01 13:09	22° \mathcal{B} 33'27			5847 Oct 26 11:11	15° \mathbb{L}	
conjunction	5842 May 14 16:31	25° \mathcal{B} 45'19	-0°54'34	conjunction	5847 Nov 08 12:08	17° \mathbb{L} 48'17	0°55'29
minimum elong	5842 May 14 16:31	25° \mathcal{B} 45'20	0°54'35	minimum elong	5847 Nov 08 12:08	17° \mathbb{L} 48'17	0°55'30
max. Earth dist.	5842 May 15 01:08	25° \mathcal{B} 50'35	5.93255 AU	max. Earth dist.	5847 Nov 08 10:06	17° \mathbb{L} 47'11	6.45067 AU
morning rise	5842 May 27 22:38	28° \mathcal{B} 58'44		morning rise	5847 Nov 21 15:20	20° \mathbb{L} 37'44	
	5842 Jun 01 04:10	0° \mathbb{I}			5848 Jan 07 13:35	0° \mathcal{X}	
retrograde	5842 Oct 07 06:07	19° \mathbb{I} 46'50		retrograde	5848 Mar 21 06:09	7° \mathcal{X} 23'22	
opposition	5842 Dec 05 21:19	14° \mathbb{I} 45'26	-1°15'14	opposition	5848 May 20 20:59	2° \mathcal{X} 28'01	1°18'39
min. Earth dist.	5842 Dec 05 02:13	14° \mathbb{I} 51'52	3.91974 AU	min. Earth dist.	5848 May 21 07:48	2° \mathcal{X} 24'31	4.47845 AU
direct	5843 Feb 01 20:32	9° \mathbb{I} 51'16			5848 Jun 09 20:02	30° κ 0	
evening set	5843 Jun 08 05:11	29° \mathbb{I} 49'37		direct	5848 Jul 22 06:17	27° \mathbb{L} 25'48	
	5843 Jun 08 22:25	0° ϕ			5848 Sep 02 21:37	0° \mathcal{X}	
				evening set	5848 Nov 25 03:42	14° \mathcal{X} 43'35	
conjunction	5843 Jun 21 16:32	3° ϕ 05'16	-0°40'08	max. Earth dist.	5848 Dec 06 22:51	17° \mathcal{X} 15'20	6.48503 AU
minimum elong	5843 Jun 21 16:34	3° ϕ 05'17	0°40'10				
max. Earth dist.	5843 Jun 23 11:36	3° ϕ 31'22	5.93281 AU	conjunction	5848 Dec 08 03:28	17° \mathcal{X} 30'43	0°49'31
morning rise	5843 Jul 05 06:35	6° ϕ 22'15		minimum elong	5848 Dec 08 03:29	17° \mathcal{X} 30'43	0°49'33
retrograde	5843 Nov 14 02:33	26° ϕ 59'43		morning rise	5848 Dec 21 00:43	20° \mathcal{X} 16'40	
min. Earth dist.	5844 Jan 11 03:33	22° ϕ 07'11	3.97214 AU		5849 Feb 08 02:03	0° ϕ	

retrograde	5849 Apr 20 03:46	6°  54'29		morning rise	5854 Jun 02 07:15	4°  22'50	
opposition	5849 Jun 20 01:20	2°  01'22	1°00'10	retrograde	5854 Oct 12 17:38	25°  12'48	
min. Earth dist.	5849 Jun 21 04:13	1°  52'46	4.47190 AU	min. Earth dist.	5854 Dec 10 09:55	20°  18'09	3.92192 AU
	5849 Jul 06 08:11	30°  R 		opposition	5854 Dec 11 07:25	20°  10'53	-1°11'42
direct	5849 Aug 21 19:17	26°  R  59'42		direct	5855 Feb 07 06:00	15°  16'34	
	5849 Oct 07 04:08	0°  R			5855 May 22 11:44	0°  R	
evening set	5849 Dec 25 10:50	14°  R22'52		evening set	5855 Jun 13 14:12	5°  R12'47	
max. Earth dist.	5850 Jan 05 07:30	16°  R44'31	6.43759 AU				
				conjunction	5855 Jun 27 02:28	8°  R28'22	-0°36'33
conjunction	5850 Jan 07 06:31	17°  R10'11	0°30'27	minimum elong	5855 Jun 27 02:30	8°  R28'23	0°36'35
minimum elong	5850 Jan 07 06:32	17°  R10'12	0°30'28	max. Earth dist.	5855 Jun 29 02:02	8°  R57'05	5.94321 AU
morning rise	5850 Jan 20 00:01	19°  R56'38		morning rise	5855 Jul 10 17:25	11°  R45'14	
	5850 Mar 11 01:25	0°  R			5855 Oct 12 12:08	0°  R	
retrograde	5850 May 21 06:00	6°  R56'55		retrograde	5855 Nov 19 05:51	2°  R15'40	
opposition	5850 Jul 21 04:44	2°  R04'39	0°25'22		5855 Dec 26 19:34	30°  R 	
min. Earth dist.	5850 Jul 22 18:41	1°  R52'34	4.38605 AU	min. Earth dist.	5856 Jan 16 05:11	27°  R23'39	3.98962 AU
	5850 Aug 06 23:48	30°  R 		opposition	5856 Jan 17 17:32	27°  R11'17	-0°32'24
direct	5850 Sep 21 17:01	27°  R04'13		direct	5856 Mar 15 18:03	22°  R14'48	
	5850 Nov 05 22:35	0°  R			5856 May 27 04:30	0°  R	
evening set	5851 Jan 25 04:06	14°  R52'54		evening set	5856 Jul 20 06:40	11°  R43'00	
	5851 Jan 25 16:52	15°  R					
max. Earth dist.	5851 Feb 04 14:26	17°  R12'55	6.31916 AU	conjunction	5856 Aug 02 23:18	14°  R55'23	-0°05'18
				minimum elong	5856 Aug 02 23:18	14°  R55'23	0°05'19
conjunction	5851 Feb 06 21:37	17°  R43'54	0°02'34	behind sun begin	5856 Aug 02 15:13	14°  R50'40	
minimum elong	5851 Feb 06 21:39	17°  R43'55	0°02'36	behind sun end	5856 Aug 03 07:24	15°  R00'07	
behind sun begin	5851 Feb 06 13:41	17°  R39'28			5856 Aug 03 07:13	15°  R	
behind sun end	5851 Feb 07 05:36	17°  R48'21		max. Earth dist.	5856 Aug 05 09:49	15°  R29'41	6.05410 AU
morning rise	5851 Feb 19 14:10	20°  R34'38		morning rise	5856 Aug 16 17:36	18°  R08'16	
desc. node	5851 Mar 11 16:24	24°  R59'02		asc. node	5856 Oct 04 08:35	28°  R41'41	
	5851 Apr 05 11:35	0°  R			5856 Oct 11 06:26	0°  R	
retrograde	5851 Jun 23 09:07	8°  R26'01		retrograde	5856 Dec 23 07:37	7°  R36'10	
opposition	5851 Aug 23 04:05	3°  R33'02	-0°18'38	min. Earth dist.	5857 Feb 19 11:32	2°  R44'02	4.13049 AU
min. Earth dist.	5851 Aug 24 17:32	3°  R21'01	4.24175 AU	opposition	5857 Feb 20 23:21	2°  R31'52	0°17'06
	5851 Sep 23 01:24	30°  R 			5857 Mar 12 14:47	30°  R 	
direct	5851 Oct 23 17:22	28°  R34'32		direct	5857 Apr 20 22:54	27°  R32'37	
	5851 Nov 23 06:23	0°  R			5857 May 30 12:11	0°  R	
evening set	5852 Feb 26 06:09	17°  R04'58		evening set	5857 Aug 25 11:09	16°  R16'04	
max. Earth dist.	5852 Mar 08 03:11	19°  R36'18	6.16049 AU				
				conjunction	5857 Sep 08 02:58	19°  R20'51	0°26'39
conjunction	5852 Mar 10 00:19	20°  R02'34	-0°27'25	minimum elong	5857 Sep 08 02:57	19°  R20'51	0°26'39
minimum elong	5852 Mar 10 00:18	20°  R02'33	0°27'25	max. Earth dist.	5857 Sep 10 04:26	19°  R48'47	6.21227 AU
morning rise	5852 Mar 22 18:26	23°  R00'31		morning rise	5857 Sep 21 18:25	22°  R25'11	
	5852 Apr 23 00:05	0°  R			5857 Oct 27 02:29	0°  R	
retrograde	5852 Jul 28 02:25	12°  R03'28		retrograde	5858 Jan 24 20:45	10°  R39'55	
opposition	5852 Sep 26 12:14	7°  R08'28	-0°59'54	opposition	5858 Mar 25 19:48	5°  R38'11	0°57'26
min. Earth dist.	5852 Sep 27 13:15	7°  R00'20	4.08040 AU	min. Earth dist.	5858 Mar 24 19:21	5°  R46'21	4.29076 AU
direct	5852 Nov 25 15:43	2°  R12'28		direct	5858 May 25 02:20	0°  R37'01	
evening set	5853 Mar 31 10:24	21°  R30'09		evening set	5858 Sep 28 12:36	18°  R36'59	
max. Earth dist.	5853 Apr 12 10:38	24°  R22'54	6.01076 AU				
				conjunction	5858 Oct 11 23:18	21°  R33'19	0°48'27
conjunction	5853 Apr 13 08:02	24°  R35'46	-0°49'33	minimum elong	5858 Oct 11 23:17	21°  R33'19	0°48'29
minimum elong	5853 Apr 13 08:01	24°  R35'45	0°49'34	max. Earth dist.	5858 Oct 12 22:13	21°  R45'52	6.36186 AU
morning rise	5853 Apr 26 07:28	27°  R42'32		morning rise	5858 Oct 25 08:36	24°  R28'41	
	5853 May 05 23:13	0°  R			5858 Nov 20 12:04	0°  R	
	5853 Jul 22 08:05	15°  R		retrograde	5859 Feb 24 12:54	11°  R44'44	
retrograde	5853 Sep 03 23:45	17°  R56'07		opposition	5859 Apr 25 20:48	6°  R46'32	1°18'16
	5853 Oct 18 03:01	15°  R 		min. Earth dist.	5859 Apr 25 14:55	6°  R48'28	4.41905 AU
opposition	5853 Nov 02 23:16	12°  R57'53	-1°21'55	direct	5859 Jun 26 10:05	1°  R44'25	
min. Earth dist.	5853 Nov 03 00:37	12°  R57'26	3.95719 AU		5859 Oct 10 09:22	15°  R	
direct	5853 Dec 31 16:49	8°  R03'42		evening set	5859 Oct 30 14:26	19°  R14'08	
	5854 Mar 09 07:28	15°  R					
evening set	5854 May 06 19:32	27°  R55'54		conjunction	5859 Nov 12 19:09	22°  R04'09	0°55'32
	5854 May 15 07:38	0°  R		minimum elong	5859 Nov 12 19:09	22°  R04'09	0°55'33
				max. Earth dist.	5859 Nov 12 13:52	22°  R01'18	6.45951 AU
conjunction	5854 May 20 00:07	1°  R08'37	-0°53'49	morning rise	5859 Nov 25 21:19	24°  R52'55	
minimum elong	5854 May 20 00:08	1°  R08'38	0°53'50		5859 Dec 20 10:55	0°  R	
max. Earth dist.	5854 May 20 15:44	1°  R18'09	5.92616 AU	retrograde	5860 Mar 25 08:05	11°  R36'09	

opposition	5860 May 25 00:33	6° \mathbb{A} 41'13	1°17'14	conjunction	5866 May 25 06:51	6° \mathbb{I} 29'51	-0°52'36
min. Earth dist.	5860 May 25 13:15	6° \mathbb{A} 37'07	4.48104 AU	minimum elong	5866 May 25 06:52	6° \mathbb{I} 29'52	0°52'38
direct	5860 Jul 26 10:29	1° \mathbb{A} 39'07		max. Earth dist.	5866 May 26 03:11	6° \mathbb{I} 42'15	5.92450 AU
evening set	5860 Nov 29 08:41	18° \mathbb{A} 57'05		morning rise	5866 Jun 07 15:14	9° \mathbb{I} 44'41	
max. Earth dist.	5860 Dec 10 23:24	21° \mathbb{A} 26'41	6.48118 AU		5866 Sep 29 09:49	0° \mathbb{B}	
				retrograde	5866 Oct 18 00:48	0° \mathbb{B} 34'09	
conjunction	5860 Dec 12 07:44	21° \mathbb{A} 44'06	0°47'34		5866 Nov 05 13:52	30° \mathbb{R} \mathbb{I}	
minimum elong	5860 Dec 12 07:45	21° \mathbb{A} 44'07	0°47'36	opposition	5866 Dec 16 14:45	25° \mathbb{I} 31'48	-1°07'35
morning rise	5860 Dec 25 04:25	24° \mathbb{A} 30'00		min. Earth dist.	5866 Dec 15 13:47	25° \mathbb{I} 40'14	3.92781 AU
	5861 Jan 20 14:54	0° \mathbb{B}		direct	5867 Feb 12 11:22	20° \mathbb{I} 37'16	
retrograde	5861 Apr 24 11:03	11° \mathbb{B} 10'00			5867 May 03 08:51	0° \mathbb{B}	
opposition	5861 Jun 24 07:31	6° \mathbb{B} 17'11	0°56'11	evening set	5867 Jun 18 20:55	10° \mathbb{B} 30'20	
min. Earth dist.	5861 Jun 25 13:23	6° \mathbb{B} 07'38	4.46190 AU				
direct	5861 Aug 26 02:06	1° \mathbb{B} 15'42		conjunction	5867 Jul 02 09:57	13° \mathbb{B} 45'41	-0°32'43
evening set	5861 Dec 29 16:39	18° \mathbb{B} 42'13		minimum elong	5867 Jul 02 09:58	13° \mathbb{B} 45'42	0°32'44
max. Earth dist.	5862 Jan 09 10:13	21° \mathbb{B} 02'45	6.42213 AU	max. Earth dist.	5867 Jul 04 11:02	14° \mathbb{B} 15'13	5.95583 AU
				morning rise	5867 Jul 16 01:42	17° \mathbb{B} 02'16	
conjunction	5862 Jan 11 11:58	21° \mathbb{B} 30'00	0°26'57		5867 Sep 13 14:20	0° \mathbb{Q}	
minimum elong	5862 Jan 11 11:59	21° \mathbb{B} 30'00	0°26'59	retrograde	5867 Nov 24 05:45	7° \mathbb{Q} 25'11	
morning rise	5862 Jan 24 05:18	24° \mathbb{B} 16'59		min. Earth dist.	5868 Jan 21 05:34	2° \mathbb{Q} 33'07	4.00734 AU
	5862 Feb 20 05:37	0° \mathbb{A}		opposition	5868 Jan 22 18:16	2° \mathbb{Q} 20'36	-0°25'36
retrograde	5862 May 25 18:13	11° \mathbb{A} 23'44			5868 Feb 09 17:49	30° \mathbb{R} \mathbb{B}	
opposition	5862 Jul 25 16:33	6° \mathbb{A} 31'27	0°19'33	direct	5868 Mar 20 21:51	27° \mathbb{B} 23'41	
min. Earth dist.	5862 Jul 27 06:29	6° \mathbb{A} 19'21	4.36618 AU		5868 Apr 30 00:01	0° \mathbb{Q}	
direct	5862 Sep 26 01:10	1° \mathbb{A} 31'17			5868 Jul 17 18:16	15° \mathbb{Q}	
	5863 Jan 09 08:07	15° \mathbb{A}		evening set	5868 Jul 25 09:25	16° \mathbb{Q} 45'44	
desc. node	5863 Jan 19 08:45	17° \mathbb{A} 10'03					
evening set	5863 Jan 29 14:02	19° \mathbb{A} 25'56		conjunction	5868 Aug 08 02:25	19° \mathbb{Q} 57'14	-0°00'34
max. Earth dist.	5863 Feb 09 02:24	21° \mathbb{A} 47'47	6.29651 AU	minimum elong	5868 Aug 08 02:23	19° \mathbb{Q} 57'13	0°00'34
				behind sun begin	5868 Aug 07 18:00	19° \mathbb{Q} 52'21	
conjunction	5863 Feb 11 07:39	22° \mathbb{A} 17'51	-0°01'49	behind sun end	5868 Aug 08 10:46	20° \mathbb{Q} 02'05	
minimum elong	5863 Feb 11 07:39	22° \mathbb{A} 17'51	0°01'48	max. Earth dist.	5868 Aug 10 13:42	20° \mathbb{Q} 31'48	6.07538 AU
behind sun begin	5863 Feb 10 23:40	22° \mathbb{A} 13'22		asc. node	5868 Aug 14 13:04	21° \mathbb{Q} 27'20	
behind sun end	5863 Feb 11 15:37	22° \mathbb{A} 22'19		morning rise	5868 Aug 21 20:27	23° \mathbb{Q} 09'00	
morning rise	5863 Feb 24 00:07	25° \mathbb{A} 09'30			5868 Sep 21 12:34	0° \mathbb{P}	
	5863 Mar 18 00:31	0° \mathbb{H}		retrograde	5868 Dec 27 23:29	12° \mathbb{P} 26'26	
retrograde	5863 Jun 28 06:57	13° \mathbb{H} 10'37		min. Earth dist.	5869 Feb 24 05:00	7° \mathbb{P} 34'06	4.15307 AU
opposition	5863 Aug 28 00:13	8° \mathbb{H} 17'29	-0°24'57	opposition	5869 Feb 25 15:33	7° \mathbb{P} 22'24	0°23'35
min. Earth dist.	5863 Aug 29 12:55	8° \mathbb{H} 05'42	4.21790 AU	direct	5869 Apr 25 18:51	2° \mathbb{P} 22'50	
direct	5863 Oct 28 09:20	3° \mathbb{H} 19'25		evening set	5869 Aug 30 07:22	20° \mathbb{P} 59'48	
evening set	5864 Mar 01 22:47	21° \mathbb{H} 56'48					
max. Earth dist.	5864 Mar 12 21:40	24° \mathbb{H} 30'04	6.13744 AU	conjunction	5869 Sep 12 22:32	24° \mathbb{P} 03'24	0°30'26
				minimum elong	5869 Sep 12 22:31	24° \mathbb{P} 03'23	0°30'26
conjunction	5864 Mar 14 17:06	24° \mathbb{H} 55'28	-0°31'15	max. Earth dist.	5869 Sep 14 19:42	24° \mathbb{P} 28'46	6.23417 AU
minimum elong	5864 Mar 14 17:05	24° \mathbb{H} 55'27	0°31'15	morning rise	5869 Sep 26 13:27	27° \mathbb{P} 06'29	
morning rise	5864 Mar 27 11:55	27° \mathbb{H} 54'39			5869 Oct 09 16:29	0° \mathbb{L}	
	5864 Apr 05 12:45	0° \mathbb{Y}		retrograde	5870 Jan 29 04:07	15° \mathbb{L} 12'05	
retrograde	5864 Aug 02 06:59	17° \mathbb{Y} 08'12		min. Earth dist.	5870 Mar 29 07:07	10° \mathbb{L} 18'05	4.31032 AU
opposition	5864 Oct 01 16:26	12° \mathbb{Y} 12'46	-1°04'32	opposition	5870 Mar 30 05:03	10° \mathbb{L} 10'45	1°01'35
min. Earth dist.	5864 Oct 02 13:36	12° \mathbb{Y} 05'52	4.06022 AU	direct	5870 May 29 16:02	5° \mathbb{L} 09'21	
direct	5864 Nov 30 14:42	7° \mathbb{Y} 17'06		evening set	5870 Oct 03 01:43	23° \mathbb{L} 04'34	
evening set	5865 Apr 05 10:30	26° \mathbb{Y} 40'26					
				conjunction	5870 Oct 16 11:48	25° \mathbb{L} 59'58	0°50'21
conjunction	5865 Apr 18 09:02	29° \mathbb{Y} 47'06	-0°51'24	minimum elong	5870 Oct 16 11:47	25° \mathbb{L} 59'57	0°50'22
minimum elong	5865 Apr 18 09:01	29° \mathbb{Y} 47'06	0°51'25	max. Earth dist.	5870 Oct 17 07:42	26° \mathbb{L} 10'50	6.37770 AU
max. Earth dist.	5865 Apr 17 18:03	29° \mathbb{Y} 38'05	5.99541 AU	morning rise	5870 Oct 29 20:00	28° \mathbb{L} 54'17	
	5865 Apr 19 06:25	0° \mathbb{B}			5870 Nov 03 21:53	0° \mathbb{M}	
morning rise	5865 May 01 09:13	2° \mathbb{B} 54'57			5871 Feb 02 10:10	15° \mathbb{M}	
	5865 Jun 24 23:38	15° \mathbb{B}		retrograde	5871 Feb 28 16:57	16° \mathbb{M} 04'40	
retrograde	5865 Sep 09 11:17	23° \mathbb{B} 15'33			5871 Mar 26 20:26	15° \mathbb{R} \mathbb{M}	
opposition	5865 Nov 08 08:07	18° \mathbb{B} 16'47	-1°22'31	opposition	5871 Apr 30 02:14	11° \mathbb{M} 06'58	1°19'24
min. Earth dist.	5865 Nov 08 06:48	18° \mathbb{B} 17'14	3.94836 AU	min. Earth dist.	5871 Apr 29 22:40	11° \mathbb{M} 08'08	4.43023 AU
	5865 Dec 05 11:02	15° \mathbb{R} \mathbb{B}		direct	5871 Jun 30 18:40	6° \mathbb{M} 04'50	
direct	5866 Jan 05 22:57	13° \mathbb{B} 22'42			5871 Sep 22 14:53	15° \mathbb{M}	
	5866 Feb 06 03:45	15° \mathbb{B}		evening set	5871 Nov 03 22:52	23° \mathbb{M} 32'22	
	5866 Apr 28 09:23	0° \mathbb{I}					
evening set	5866 May 12 01:15	3° \mathbb{I} 16'33		conjunction	5871 Nov 17 02:37	26° \mathbb{M} 21'49	0°55'15

minimum elong	5871 Nov 17 02:37	26° \mathbb{M} 21'49	0°55'17	opposition	5877 Nov 13 13:02	23° \mathcal{B} 26'00	-1°22'23
max. Earth dist.	5871 Nov 16 15:48	26° \mathbb{M} 16'01	6.46517 AU	min. Earth dist.	5877 Nov 13 07:44	23° \mathcal{B} 27'46	3.94450 AU
morning rise	5871 Nov 30 04:07	29° \mathbb{M} 10'05		direct	5878 Jan 10 23:45	18° \mathcal{B} 32'00	
	5871 Dec 04 01:50	0° \mathcal{A}			5878 Apr 10 19:50	0° \mathbb{I}	
retrograde	5872 Mar 29 13:33	15° \mathcal{A} 51'47		evening set	5878 May 17 02:56	8° \mathbb{I} 25'56	
opposition	5872 May 29 05:38	10° \mathcal{A} 57'13	1°15'22				
min. Earth dist.	5872 May 29 21:41	10° \mathcal{A} 52'02	4.48111 AU	conjunction	5878 May 30 09:26	11° \mathbb{I} 39'35	-0°51'01
direct	5872 Jul 30 18:16	5° \mathcal{A} 55'08		minimum elong	5878 May 30 09:28	11° \mathbb{I} 39'35	0°51'03
evening set	5872 Dec 03 14:58	23° \mathcal{A} 13'48		max. Earth dist.	5878 May 31 09:22	11° \mathbb{I} 54'09	5.92663 AU
max. Earth dist.	5872 Dec 15 03:09	25° \mathcal{A} 42'16	6.47574 AU	morning rise	5878 Jun 12 18:50	14° \mathbb{I} 54'46	
					5878 Aug 22 05:04	0° \mathcal{B}	
conjunction	5872 Dec 16 13:34	26° \mathcal{A} 00'50	0°45'19	retrograde	5878 Oct 23 03:05	5° \mathcal{B} 42'31	
minimum elong	5872 Dec 16 13:36	26° \mathcal{A} 00'51	0°45'21	opposition	5878 Dec 21 16:52	0° \mathcal{B} 39'46	-1°03'05
morning rise	5872 Dec 29 09:35	28° \mathcal{A} 46'44		min. Earth dist.	5878 Dec 20 14:24	0° \mathcal{B} 48'44	3.93569 AU
	5873 Jan 04 02:49	0° \mathcal{B}			5878 Dec 26 14:43	30° \mathcal{R} \mathbb{I}	
retrograde	5873 Apr 28 17:30	15° \mathcal{B} 29'15		direct	5879 Feb 17 14:31	25° \mathbb{I} 45'00	
opposition	5873 Jun 28 15:23	10° \mathcal{B} 36'36	0°51'48		5879 Apr 10 02:46	0° \mathcal{B}	
min. Earth dist.	5873 Jun 29 21:43	10° \mathcal{B} 26'54	4.45156 AU	evening set	5879 Jun 23 22:42	15° \mathcal{B} 34'40	
direct	5873 Aug 30 08:11	5° \mathcal{B} 35'19					
evening set	5874 Jan 02 23:56	23° \mathcal{B} 05'03		conjunction	5879 Jul 07 12:38	18° \mathcal{B} 49'48	-0°28'48
max. Earth dist.	5874 Jan 13 16:47	25° \mathcal{B} 25'41	6.40782 AU	minimum elong	5879 Jul 07 12:40	18° \mathcal{B} 49'49	0°28'51
				max. Earth dist.	5879 Jul 09 16:49	19° \mathcal{B} 21'06	5.96875 AU
conjunction	5874 Jan 15 18:51	25° \mathcal{B} 53'13	0°23'15	morning rise	5879 Jul 21 04:52	22° \mathcal{B} 06'00	
minimum elong	5874 Jan 15 18:53	25° \mathcal{B} 53'14	0°23'16		5879 Aug 24 18:21	0° \mathcal{Q}	
morning rise	5874 Jan 28 11:56	28° \mathcal{B} 40'41		retrograde	5879 Nov 29 02:03	12° \mathcal{Q} 21'40	
	5874 Feb 03 13:43	0° \approx		min. Earth dist.	5880 Jan 26 01:18	7° \mathcal{Q} 29'31	4.02384 AU
	5874 May 06 05:54	15° \approx		opposition	5880 Jan 27 13:44	7° \mathcal{Q} 17'07	-0°18'57
retrograde	5874 May 30 09:01	15° \approx 53'28		direct	5880 Mar 25 19:17	2° \mathcal{Q} 19'53	
	5874 Jun 23 10:58	15° $\mathcal{R}\approx$		asc. node	5880 Jun 26 15:12	14° \mathcal{Q} 05'40	
opposition	5874 Jul 30 06:18	11° \approx 01'13	0°13'30		5880 Jun 30 21:03	15° \mathcal{Q}	
min. Earth dist.	5874 Jul 31 21:03	10° \approx 48'52	4.34884 AU	evening set	5880 Jul 30 07:42	21° \mathcal{Q} 36'49	
direct	5874 Sep 30 13:32	6° \approx 01'23					
desc. node	5874 Nov 29 00:22	10° \approx 57'43		conjunction	5880 Aug 13 00:39	24° \mathcal{Q} 47'30	0°04'01
	5874 Dec 22 07:51	15° \approx		minimum elong	5880 Aug 13 00:38	24° \mathcal{Q} 47'29	0°04'00
evening set	5875 Feb 03 00:52	24° \approx 00'47		behind sun begin	5880 Aug 12 16:21	24° \mathcal{Q} 42'42	
max. Earth dist.	5875 Feb 13 13:11	26° \approx 23'16	6.27763 AU	behind sun end	5880 Aug 13 08:54	24° \mathcal{Q} 52'16	
				max. Earth dist.	5880 Aug 15 09:40	25° \mathcal{Q} 20'35	6.09380 AU
conjunction	5875 Feb 15 18:20	26° \approx 53'24	-0°06'07	morning rise	5880 Aug 26 18:47	27° \mathcal{Q} 58'24	
minimum elong	5875 Feb 15 18:20	26° \approx 53'25	0°06'07		5880 Sep 04 15:44	0° \mathcal{P}	
behind sun begin	5875 Feb 15 10:46	26° \approx 49'08		retrograde	5881 Jan 01 09:57	17° \mathcal{P} 07'01	
behind sun end	5875 Feb 16 01:55	26° \approx 57'41		min. Earth dist.	5881 Feb 28 18:20	12° \mathcal{P} 14'38	4.17176 AU
morning rise	5875 Feb 28 11:00	29° \approx 45'53		opposition	5881 Mar 02 03:51	12° \mathcal{P} 03'17	0°29'37
	5875 Mar 01 12:03	0° \mathcal{H}		direct	5881 Apr 30 10:21	7° \mathcal{P} 03'27	
retrograde	5875 Jul 03 02:45	17° \mathcal{H} 55'23		evening set	5881 Sep 03 23:56	25° \mathcal{P} 35'40	
opposition	5875 Sep 01 20:41	13° \mathcal{H} 01'59	-0°31'07				
min. Earth dist.	5875 Sep 03 06:38	12° \mathcal{H} 51'04	4.19897 AU	conjunction	5881 Sep 17 14:43	28° \mathcal{P} 38'18	0°33'52
direct	5875 Nov 02 01:06	8° \mathcal{H} 04'17		minimum elong	5881 Sep 17 14:41	28° \mathcal{P} 38'18	0°33'53
evening set	5876 Mar 06 15:03	26° \mathcal{H} 46'47		max. Earth dist.	5881 Sep 19 09:04	29° \mathcal{P} 02'01	6.25181 AU
max. Earth dist.	5876 Mar 17 18:55	29° \mathcal{H} 23'31	6.12017 AU		5881 Sep 23 16:42	0° \mathcal{L}	
				morning rise	5881 Oct 01 04:48	1° \mathcal{L} 40'19	
conjunction	5876 Mar 19 09:44	29° \mathcal{H} 46'18	-0°34'50	retrograde	5882 Feb 02 11:13	19° \mathcal{L} 38'42	
minimum elong	5876 Mar 19 09:42	29° \mathcal{H} 46'18	0°34'49	opposition	5882 Apr 03 12:09	14° \mathcal{L} 37'55	1°05'14
	5876 Mar 20 09:03	0° \mathcal{Y}		min. Earth dist.	5882 Apr 02 16:49	14° \mathcal{L} 44'21	4.32561 AU
morning rise	5876 Apr 01 04:52	2° \mathcal{Y} 46'24		direct	5882 Jun 03 03:29	9° \mathcal{L} 36'25	
retrograde	5876 Aug 07 11:36	22° \mathcal{Y} 08'16		evening set	5882 Oct 07 13:05	27° \mathcal{L} 28'21	
opposition	5876 Oct 06 19:02	17° \mathcal{Y} 12'27	-1°08'35		5882 Oct 19 04:09	0° \mathbb{L}	
min. Earth dist.	5876 Oct 07 14:11	17° \mathcal{Y} 06'12	4.04616 AU				
direct	5876 Dec 05 14:16	12° \mathcal{Y} 17'06		conjunction	5882 Oct 20 22:17	0° \mathbb{L} 22'57	0°51'52
	5877 Apr 03 02:08	0° \mathcal{B}		minimum elong	5882 Oct 20 22:16	0° \mathbb{L} 22'56	0°51'53
evening set	5877 Apr 10 08:24	1° \mathcal{B} 43'52		max. Earth dist.	5882 Oct 21 13:34	0° \mathbb{L} 31'15	6.38955 AU
				morning rise	5882 Nov 03 05:44	3° \mathbb{L} 16'28	
conjunction	5877 Apr 23 07:35	4° \mathcal{B} 51'17	-0°52'47		5883 Jan 02 10:49	15° \mathbb{L}	
minimum elong	5877 Apr 23 07:34	4° \mathcal{B} 51'17	0°52'49	retrograde	5883 Mar 04 20:20	20° \mathbb{L} 22'33	
max. Earth dist.	5877 Apr 22 20:15	4° \mathcal{B} 44'27	5.98579 AU	opposition	5883 May 04 06:36	15° \mathbb{L} 25'18	1°20'02
morning rise	5877 May 06 08:46	8° \mathcal{B} 00'00		min. Earth dist.	5883 May 04 05:32	15° \mathbb{L} 25'39	4.43821 AU
	5877 Jun 05 11:06	15° \mathcal{B}			5883 May 07 12:03	15° \mathcal{R} \mathbb{L}	
retrograde	5877 Sep 14 15:57	28° \mathcal{B} 25'15		direct	5883 Jul 05 02:10	10° \mathbb{L} 23'07	

	5883 Sep 01 02:52	15°♍		max. Earth dist.	5889 Apr 28 00:05	9°♏53'09	5.97209 AU
evening set	5883 Nov 08 06:09	27°♍49'20		morning rise	5889 May 11 09:14	13°♏07'09	
	5883 Nov 18 09:56	0°♏			5889 May 19 05:58	15°♏	
					5889 Aug 02 03:25	0°♐	
conjunction	5883 Nov 21 09:18	0°♏38'23	0°54'40	retrograde	5889 Sep 19 23:22	3°♐38'40	
minimum elong	5883 Nov 21 09:19	0°♏38'23	0°54'42		5889 Nov 08 12:55	30°♐♏	
max. Earth dist.	5883 Nov 20 20:40	0°♏31'35	6.46884 AU	opposition	5889 Nov 18 19:04	28°♏38'52	-1°21'40
morning rise	5883 Dec 04 09:51	3°♏26'11		min. Earth dist.	5889 Nov 18 11:12	28°♏41'30	3.93632 AU
retrograde	5884 Apr 02 16:22	20°♏06'50		direct	5890 Jan 16 03:31	23°♏44'50	
opposition	5884 Jun 02 10:15	15°♏12'36	1°13'06		5890 Mar 20 17:54	0°♐	
min. Earth dist.	5884 Jun 03 03:44	15°♏06'58	4.48034 AU	evening set	5890 May 22 07:03	13°♐40'39	
direct	5884 Aug 04 00:01	10°♏10'38					
evening set	5884 Dec 07 20:27	27°♏29'52		conjunction	5890 Jun 04 14:50	16°♐54'57	-0°49'00
max. Earth dist.	5884 Dec 19 04:39	29°♏56'30	6.47043 AU	minimum elong	5890 Jun 04 14:52	16°♐54'58	0°49'02
	5884 Dec 19 11:08	0°♑		max. Earth dist.	5890 Jun 05 20:16	17°♐12'52	5.92490 AU
				morning rise	5890 Jun 18 01:17	20°♐10'44	
conjunction	5884 Dec 20 18:17	0°♑16'50	0°42'50		5890 Jul 30 22:21	0°♑	
minimum elong	5884 Dec 20 18:18	0°♑16'50	0°42'51	retrograde	5890 Oct 28 09:42	10°♑57'47	
morning rise	5885 Jan 02 13:54	3°♑02'46		opposition	5890 Dec 26 21:32	5°♑54'42	-0°58'01
retrograde	5885 May 03 01:22	19°♑47'38		min. Earth dist.	5890 Dec 25 17:16	6°♑04'17	3.94070 AU
opposition	5885 Jul 02 22:55	14°♑55'03	0°47'08	direct	5891 Feb 22 18:36	0°♑59'40	
min. Earth dist.	5885 Jul 04 07:25	14°♑44'41	4.44180 AU	evening set	5891 Jun 29 04:16	20°♑47'02	
direct	5885 Sep 03 16:45	9°♑53'53					
evening set	5886 Jan 07 06:01	27°♑26'14		conjunction	5891 Jul 12 18:50	24°♑01'58	-0°24'33
max. Earth dist.	5886 Jan 17 21:46	29°♑46'44	6.39409 AU	minimum elong	5891 Jul 12 18:51	24°♑01'59	0°24'35
	5886 Jan 18 21:50	0°♒		max. Earth dist.	5891 Jul 15 00:02	24°♑33'45	5.97981 AU
				morning rise	5891 Jul 26 11:54	27°♑17'57	
conjunction	5886 Jan 20 00:41	0°♒14'48	0°19'25		5891 Aug 07 00:03	0°♒	
minimum elong	5886 Jan 20 00:42	0°♒14'49	0°19'28		5891 Oct 25 15:56	15°♒	
morning rise	5886 Feb 01 17:28	3°♒02'41		retrograde	5891 Dec 03 23:26	17°♒26'38	
	5886 Apr 03 08:37	15°♒			5892 Jan 12 04:19	15°♒♒	
retrograde	5886 Jun 03 20:07	20°♒21'14		min. Earth dist.	5892 Jan 30 23:00	12°♒34'49	4.03972 AU
opposition	5886 Aug 03 18:40	15°♒28'49	0°07'25	opposition	5892 Feb 01 12:32	12°♒22'02	-0°11'56
min. Earth dist.	5886 Aug 05 08:31	15°♒16'44	4.33174 AU	direct	5892 Mar 30 19:43	7°♒24'26	
	5886 Aug 07 13:04	15°♒♒		asc. node	5892 May 06 12:54	9°♒35'13	
direct	5886 Oct 04 22:34	10°♒29'11			5892 Jun 10 23:49	15°♒	
desc. node	5886 Oct 09 02:58	10°♒30'48		evening set	5892 Aug 04 09:52	26°♒36'18	
	5886 Nov 30 11:26	15°♒					
evening set	5887 Feb 07 10:28	28°♒33'18		conjunction	5892 Aug 18 02:54	29°♒46'07	0°08'38
	5887 Feb 13 19:38	0°♓		minimum elong	5892 Aug 18 02:52	29°♒46'06	0°08'36
max. Earth dist.	5887 Feb 18 00:15	0°♓57'14	6.25825 AU	behind sun begin	5892 Aug 17 19:38	29°♒41'57	
				behind sun end	5892 Aug 18 10:07	29°♒50'16	
conjunction	5887 Feb 20 03:53	1°♓26'39	-0°10'20		5892 Aug 19 02:56	0°♓	
minimum elong	5887 Feb 20 03:52	1°♓26'38	0°10'20	max. Earth dist.	5892 Aug 20 11:20	0°♓18'43	6.11332 AU
behind sun begin	5887 Feb 19 21:31	1°♓23'02		morning rise	5892 Aug 31 20:41	2°♓55'59	
behind sun end	5887 Feb 20 10:13	1°♓30'14		retrograde	5893 Jan 06 01:48	21°♓55'01	
morning rise	5887 Mar 04 20:38	4°♓19'56		min. Earth dist.	5893 Mar 05 11:45	17°♓02'20	4.19302 AU
retrograde	5887 Jul 08 00:08	22°♓38'08		opposition	5893 Mar 06 19:26	16°♓51'38	0°35'40
opposition	5887 Sep 06 16:11	17°♓44'28	-0°37'05	direct	5893 May 05 07:01	11°♓51'34	
min. Earth dist.	5887 Sep 08 01:49	17°♓33'38	4.17836 AU		5893 Sep 07 11:31	0°♔	
direct	5887 Nov 06 17:45	12°♓47'01		evening set	5893 Sep 08 19:42	0°♔17'49	
	5888 Mar 04 10:30	0°♕					
evening set	5888 Mar 11 06:26	1°♕35'20		conjunction	5893 Sep 22 09:50	3°♔19'16	0°37'14
max. Earth dist.	5888 Mar 22 12:37	4°♕14'08	6.10005 AU	minimum elong	5893 Sep 22 09:48	3°♔19'15	0°37'15
				max. Earth dist.	5893 Sep 24 01:56	3°♔41'36	6.27334 AU
conjunction	5888 Mar 24 01:30	4°♕35'52	-0°38'11	morning rise	5893 Oct 05 23:07	6°♔20'01	
minimum elong	5888 Mar 24 01:29	4°♕35'52	0°38'11	retrograde	5894 Feb 06 17:47	24°♔09'30	
morning rise	5888 Apr 05 21:19	7°♕37'07		opposition	5894 Apr 07 21:10	19°♔09'10	1°08'37
retrograde	5888 Aug 12 14:27	27°♕08'29		min. Earth dist.	5894 Apr 07 03:03	19°♔15'11	4.34600 AU
opposition	5888 Oct 11 21:15	22°♕12'13	-1°12'12	direct	5894 Jun 07 16:16	14°♔07'33	
min. Earth dist.	5888 Oct 12 12:46	22°♕07'08	4.02843 AU		5894 Oct 03 04:10	0°♕	
direct	5888 Dec 10 10:35	17°♕17'06		evening set	5894 Oct 12 01:28	1°♕54'11	
	5889 Mar 17 00:21	0°♖					
evening set	5889 Apr 15 07:02	6°♖48'56		conjunction	5894 Oct 25 09:48	4°♕47'43	0°53'11
				minimum elong	5894 Oct 25 09:47	4°♕47'42	0°53'12
conjunction	5889 Apr 28 07:03	9°♖57'22	-0°53'50	max. Earth dist.	5894 Oct 25 21:55	4°♕54'17	6.40745 AU
minimum elong	5889 Apr 28 07:02	9°♖57'22	0°53'50	morning rise	5894 Nov 07 16:08	7°♕40'05	









































































































































































































































































































	5894 Dec 13 05:41	15°♍		retrograde	5900 Aug 18 19:12	2°♏08'17	
retrograde	5895 Mar 09 00:02	24°♍39'55			5900 Sep 25 03:32	30°♏°	
opposition	5895 May 08 11:31	19°♍43'09	1°20'17	opposition	5900 Oct 17 23:06	27°♏11'35	-1°15'20
min. Earth dist.	5895 May 08 13:08	19°♍42'38	4.45243 AU	min. Earth dist.	5900 Oct 18 12:33	27°♏07'10	4.00600 AU
	5895 Jun 25 00:54	15°♍		direct	5900 Dec 16 07:55	22°♏16'41	
direct	5895 Jul 09 11:26	14°♍41'00			5901 Feb 26 13:58	0°♏	
	5895 Jul 23 23:10	15°♍		evening set	5901 Apr 21 06:09	11°♏55'44	
	5895 Nov 02 18:37	0°♏			5901 May 03 22:15	15°♏	
evening set	5895 Nov 12 12:32	2°♏03'39					
				conjunction	5901 May 04 07:22	15°♏05'32	-0°54'27
conjunction	5895 Nov 25 14:43	4°♏51'59	0°53'50	minimum elong	5901 May 04 07:22	15°♏05'32	0°54'29
minimum elong	5895 Nov 25 14:43	4°♏51'59	0°53'51	max. Earth dist.	5901 May 04 05:39	15°♏04'30	5.95385 AU
max. Earth dist.	5895 Nov 24 21:33	4°♏42'46	6.47821 AU	morning rise	5901 May 17 10:43	18°♏16'44	
morning rise	5895 Dec 08 14:30	7°♏39'07			5901 Jul 08 16:21	0°♐	
retrograde	5896 Apr 06 18:27	24°♏17'11		retrograde	5901 Sep 26 09:33	8°♐56'16	
opposition	5896 Jun 06 13:32	19°♏23'13	1°10'32	opposition	5901 Nov 25 02:27	3°♐56'02	-1°20'20
min. Earth dist.	5896 Jun 07 09:31	19°♏16'47	4.48437 AU	min. Earth dist.	5901 Nov 24 15:23	3°♐59'44	3.92458 AU
direct	5896 Aug 08 05:31	14°♏21'16			5901 Dec 29 09:25	30°♏	
	5896 Dec 04 04:17	0°♑		direct	5902 Jan 22 07:00	29°♏02'03	
evening set	5896 Dec 11 23:24	1°♑39'39			5902 Feb 15 03:05	0°♐	
max. Earth dist.	5896 Dec 23 05:37	4°♑05'16	6.46871 AU	evening set	5902 May 28 13:30	19°♐01'12	
conjunction	5896 Dec 24 20:46	4°♑26'27	0°40'13	conjunction	5902 Jun 10 22:20	22°♐16'15	-0°46'35
minimum elong	5896 Dec 24 20:48	4°♑26'28	0°40'15	minimum elong	5902 Jun 10 22:22	22°♐16'16	0°46'36
morning rise	5897 Jan 06 15:38	7°♑12'12		max. Earth dist.	5902 Jun 12 07:17	22°♐36'18	5.92068 AU
retrograde	5897 May 07 04:23	23°♑58'39		morning rise	5902 Jun 24 10:12	25°♐32'50	
opposition	5897 Jul 07 03:40	19°♑06'11	0°42'23		5902 Jul 13 03:59	0°♑	
min. Earth dist.	5897 Jul 08 13:14	18°♑55'29	4.43428 AU	retrograde	5902 Nov 03 16:04	16°♑19'54	
direct	5897 Sep 07 20:39	14°♑05'11		min. Earth dist.	5902 Dec 31 20:45	11°♑27'04	3.94459 AU
	5898 Jan 03 17:48	0°♒		opposition	5903 Jan 02 04:15	11°♑16'22	-0°52'25
evening set	5898 Jan 11 09:04	1°♒39'46		direct	5903 Mar 01 00:23	6°♑21'01	
max. Earth dist.	5898 Jan 21 22:00	3°♒59'12	6.38105 AU	evening set	5903 Jul 05 12:35	26°♑06'24	
conjunction	5898 Jan 24 03:16	4°♒28'40	0°15'39	conjunction	5903 Jul 19 03:59	29°♑21'08	-0°20'03
minimum elong	5898 Jan 24 03:16	4°♒28'40	0°15'39	minimum elong	5903 Jul 19 04:00	29°♑21'09	0°20'04
behind sun begin	5898 Jan 24 01:12	4°♒27'32			5903 Jul 21 21:13	0°♒	
behind sun end	5898 Jan 24 05:20	4°♒29'49		max. Earth dist.	5903 Jul 21 12:22	29°♑54'43	5.99144 AU
morning rise	5898 Feb 05 19:57	7°♒17'01		morning rise	5903 Aug 01 21:29	2°♒36'45	
	5898 Mar 14 12:37	15°♒			5903 Sep 28 02:31	15°♒	
retrograde	5898 Jun 08 07:20	24°♒41'40		retrograde	5903 Dec 10 00:39	22°♒37'44	
opposition	5898 Aug 08 04:37	19°♒49'11	0°01'27	min. Earth dist.	5904 Feb 06 00:02	17°♒45'43	4.05737 AU
min. Earth dist.	5898 Aug 09 19:57	19°♒36'37	4.31359 AU	opposition	5904 Feb 07 13:16	17°♒33'02	-0°04'46
desc. node	5898 Aug 21 02:42	18°♒11'49			5904 Feb 27 07:06	15°♒♒	
	5898 Sep 28 17:32	15°♒♒		asc. node	5904 Mar 16 12:54	13°♒17'29	
direct	5898 Oct 09 06:56	14°♒49'43		direct	5904 Apr 06 00:40	12°♒35'01	
	5898 Oct 19 19:15	15°♒			5904 May 14 20:08	15°♒	
	5899 Jan 29 09:08	0°♓			5904 Aug 03 04:40	0°♓	
evening set	5899 Feb 11 17:11	2°♓59'13		evening set	5904 Aug 10 13:53	1°♓40'51	
max. Earth dist.	5899 Feb 22 07:04	5°♓23'54	6.23635 AU				
				conjunction	5904 Aug 24 06:49	4°♓49'36	0°13'14
conjunction	5899 Feb 24 10:45	5°♓53'28	-0°14'23	minimum elong	5904 Aug 24 06:48	4°♓49'35	0°13'13
minimum elong	5899 Feb 24 10:44	5°♓53'28	0°14'22	behind sun begin	5904 Aug 24 02:04	4°♓46'53	
behind sun begin	5899 Feb 24 06:54	5°♓51'17		behind sun end	5904 Aug 24 11:32	4°♓52'18	
behind sun end	5899 Feb 24 14:35	5°♓55'39		max. Earth dist.	5904 Aug 26 15:35	5°♓22'12	6.13513 AU
morning rise	5899 Mar 09 03:42	8°♓47'46		morning rise	5904 Sep 07 00:16	7°♓58'17	
retrograde	5899 Jul 12 17:59	27°♓16'01		retrograde	5905 Jan 11 16:09	26°♓46'35	
opposition	5899 Sep 11 09:34	22°♓22'06	-0°42'43	min. Earth dist.	5905 Mar 11 04:30	21°♓54'02	4.21658 AU
min. Earth dist.	5899 Sep 12 17:20	22°♓11'51	4.15423 AU	opposition	5905 Mar 12 11:56	21°♓43'27	0°41'30
direct	5899 Nov 11 05:15	17°♓24'58		direct	5905 May 11 03:16	16°♓43'01	
	5900 Feb 16 23:51	0°♔			5905 Aug 22 07:44	0°♔	
evening set	5900 Mar 16 20:42	6°♔20'52		evening set	5905 Sep 14 15:59	5°♔02'23	
max. Earth dist.	5900 Mar 28 05:55	9°♔02'20	6.07570 AU				
				conjunction	5905 Sep 28 05:17	8°♔02'30	0°40'23
conjunction	5900 Mar 29 16:14	9°♔22'41	-0°41'13	minimum elong	5905 Sep 28 05:15	8°♔02'29	0°40'23
minimum elong	5900 Mar 29 16:13	9°♔22'40	0°41'14	max. Earth dist.	5905 Sep 29 17:17	8°♔22'28	6.29643 AU
morning rise	5900 Apr 11 12:48	12°♔25'18		morning rise	5905 Oct 11 17:40	11°♔01'51	
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



























































































































opposition	5906 Apr 13 06:58	23° <u>♌</u> 42'16	1°11'35	max. Earth dist.	5912 Apr 02 07:29	14° <u>♍</u> 06'49	6.05310 AU
min. Earth dist.	5906 Apr 12 16:12	23° <u>♌</u> 47'09	4.36655 AU				
direct	5906 Jun 13 07:45	18° <u>♌</u> 40'26		conjunction	5912 Apr 03 13:23	14° <u>♍</u> 24'38	-0°44'09
	5906 Sep 16 23:35	0° <u>♍</u>		minimum elong	5912 Apr 03 13:21	14° <u>♍</u> 24'37	0°44'09
evening set	5906 Oct 17 14:10	6° <u>♍</u> 21'47		morning rise	5912 Apr 16 10:40	17° <u>♍</u> 28'36	
					5912 Jun 13 05:02	0° <u>♌</u>	
conjunction	5906 Oct 30 21:38	9° <u>♍</u> 14'17	0°54'11	retrograde	5912 Aug 24 04:55	7° <u>♌</u> 22'09	
minimum elong	5906 Oct 30 21:37	9° <u>♍</u> 14'16	0°54'13	opposition	5912 Oct 23 06:59	2° <u>♌</u> 25'04	-1°18'00
max. Earth dist.	5906 Oct 31 06:02	9° <u>♍</u> 18'50	6.42376 AU	min. Earth dist.	5912 Oct 23 16:58	2° <u>♌</u> 21'47	3.98787 AU
morning rise	5906 Nov 13 02:55	12° <u>♍</u> 05'36			5912 Nov 11 11:55	30° <u>♏</u>	
	5906 Nov 26 19:30	15° <u>♍</u>		direct	5912 Dec 21 10:00	27° <u>♏</u> 30'31	
retrograde	5907 Mar 14 03:31	28° <u>♍</u> 59'54			5913 Jan 29 17:06	0° <u>♌</u>	
opposition	5907 May 13 17:11	24° <u>♍</u> 03'32	1°20'07		5913 Apr 17 02:16	15° <u>♌</u>	
min. Earth dist.	5907 May 13 20:57	24° <u>♍</u> 02'18	4.46362 AU	evening set	5913 Apr 26 10:54	17° <u>♌</u> 14'50	
direct	5907 Jul 14 19:31	19° <u>♍</u> 01'18					
	5907 Oct 17 21:12	0° <u>♏</u>		conjunction	5913 May 09 12:59	20° <u>♌</u> 25'39	-0°54'41
evening set	5907 Nov 17 20:04	6° <u>♏</u> 21'31		minimum elong	5913 May 09 12:59	20° <u>♌</u> 25'39	0°54'42
				max. Earth dist.	5913 May 09 15:29	20° <u>♌</u> 27'11	5.94205 AU
conjunction	5907 Nov 30 21:28	9° <u>♏</u> 09'20	0°52'42	morning rise	5913 May 22 17:39	23° <u>♌</u> 37'58	
minimum elong	5907 Nov 30 21:29	9° <u>♏</u> 09'20	0°52'43		5913 Jun 18 18:42	0° <u>♏</u>	
max. Earth dist.	5907 Nov 30 01:10	8° <u>♏</u> 58'25	6.48349 AU	retrograde	5913 Oct 01 20:40	14° <u>♏</u> 22'20	
morning rise	5907 Dec 13 20:22	11° <u>♏</u> 55'56		opposition	5913 Nov 30 13:06	9° <u>♏</u> 21'35	-1°18'14
retrograde	5908 Apr 11 23:13	28° <u>♏</u> 32'51		min. Earth dist.	5913 Nov 29 21:39	9° <u>♏</u> 26'47	3.92083 AU
opposition	5908 Jun 11 19:08	23° <u>♏</u> 39'12	1°07'33	direct	5914 Jan 27 15:00	4° <u>♏</u> 27'34	
min. Earth dist.	5908 Jun 12 17:49	23° <u>♏</u> 31'55	4.48342 AU	evening set	5914 Jun 02 22:44	24° <u>♏</u> 26'49	
direct	5908 Aug 13 12:48	18° <u>♏</u> 37'20					
	5908 Nov 18 14:43	0° <u>♏</u>		conjunction	5914 Jun 16 08:47	27° <u>♏</u> 42'12	-0°43'44
evening set	5908 Dec 17 04:57	5° <u>♏</u> 56'22		minimum elong	5914 Jun 16 08:48	27° <u>♏</u> 42'13	0°43'46
max. Earth dist.	5908 Dec 28 06:14	8° <u>♏</u> 19'40	6.46147 AU	max. Earth dist.	5914 Jun 17 23:33	28° <u>♏</u> 05'45	5.92556 AU
					5914 Jun 25 19:51	0° <u>♏</u>	
conjunction	5908 Dec 30 01:39	8° <u>♏</u> 43'12	0°37'18	morning rise	5914 Jun 29 21:32	0° <u>♏</u> 58'58	
minimum elong	5908 Dec 30 01:40	8° <u>♏</u> 43'12	0°37'20	retrograde	5914 Nov 08 23:40	21° <u>♏</u> 41'51	
morning rise	5909 Jan 11 20:13	11° <u>♏</u> 29'05		min. Earth dist.	5915 Jan 06 02:23	16° <u>♏</u> 49'06	3.95747 AU
retrograde	5909 May 12 13:49	28° <u>♏</u> 19'00		opposition	5915 Jan 07 11:03	16° <u>♏</u> 37'59	-0°46'22
opposition	5909 Jul 12 12:42	23° <u>♏</u> 26'36	0°37'12	direct	5915 Mar 06 08:48	11° <u>♏</u> 42'20	
min. Earth dist.	5909 Jul 14 00:06	23° <u>♏</u> 15'18	4.42111 AU		5915 Jul 04 23:57	0° <u>♏</u>	
direct	5909 Sep 13 04:47	18° <u>♏</u> 25'40		evening set	5915 Jul 10 20:08	1° <u>♏</u> 22'23	
	5909 Dec 19 03:32	0° <u>♏</u>					
evening set	5910 Jan 16 16:20	6° <u>♏</u> 04'11		conjunction	5915 Jul 24 12:02	4° <u>♏</u> 36'27	-0°15'27
max. Earth dist.	5910 Jan 27 05:11	8° <u>♏</u> 24'06	6.36296 AU	minimum elong	5915 Jul 24 12:03	4° <u>♏</u> 36'27	0°15'28
				behind sun begin	5915 Jul 24 10:09	4° <u>♏</u> 35'20	
conjunction	5910 Jan 29 10:28	8° <u>♏</u> 53'42	0°11'35	behind sun end	5915 Jul 24 13:58	4° <u>♏</u> 37'35	
minimum elong	5910 Jan 29 10:28	8° <u>♏</u> 53'43	0°11'36	max. Earth dist.	5915 Jul 26 22:50	5° <u>♏</u> 11'16	6.01086 AU
behind sun begin	5910 Jan 29 04:45	8° <u>♏</u> 50'32		morning rise	5915 Aug 07 05:53	7° <u>♏</u> 51'15	
behind sun end	5910 Jan 29 16:12	8° <u>♏</u> 56'53			5915 Sep 07 17:54	15° <u>♏</u>	
morning rise	5910 Feb 11 02:54	11° <u>♏</u> 42'41		retrograde	5915 Dec 14 21:20	27° <u>♏</u> 41'42	
	5910 Feb 26 04:31	15° <u>♏</u>		asc. node	5916 Jan 25 09:24	24° <u>♏</u> 58'55	
retrograde	5910 Jun 13 22:40	29° <u>♏</u> 15'05		min. Earth dist.	5916 Feb 10 21:20	22° <u>♏</u> 50'00	4.08109 AU
desc. node	5910 Jul 01 16:25	28° <u>♏</u> 45'53		opposition	5916 Feb 12 11:18	22° <u>♏</u> 37'06	0°02'15
opposition	5910 Aug 13 19:58	24° <u>♏</u> 22'30	-0°04'52	direct	5916 Apr 11 01:33	17° <u>♏</u> 38'43	
min. Earth dist.	5910 Aug 15 10:52	24° <u>♏</u> 10'04	4.29166 AU		5916 Jul 16 15:52	0° <u>♏</u>	
direct	5910 Oct 14 18:00	19° <u>♏</u> 23'20		evening set	5916 Aug 15 14:52	6° <u>♏</u> 36'55	
	5911 Jan 13 01:56	0° <u>♏</u>					
evening set	5911 Feb 17 05:56	7° <u>♏</u> 39'21		conjunction	5916 Aug 29 07:22	9° <u>♏</u> 44'20	0°17'36
max. Earth dist.	5911 Feb 27 20:34	10° <u>♏</u> 05'18	6.21227 AU	minimum elong	5916 Aug 29 07:20	9° <u>♏</u> 44'19	0°17'37
				max. Earth dist.	5916 Aug 31 12:51	10° <u>♏</u> 14'53	6.16085 AU
conjunction	5911 Mar 01 23:30	10° <u>♏</u> 34'37	-0°18'35	morning rise	5916 Sep 12 00:20	12° <u>♏</u> 51'36	
minimum elong	5911 Mar 01 23:29	10° <u>♏</u> 34'36	0°18'34		5916 Dec 16 15:33	0° <u>♏</u>	
morning rise	5911 Mar 14 16:54	13° <u>♏</u> 30'03		retrograde	5917 Jan 16 04:33	1° <u>♏</u> 28'39	
	5911 Jun 11 05:45	0° <u>♏</u>			5917 Feb 15 10:59	30° <u>♏</u>	
retrograde	5911 Jul 18 20:52	2° <u>♏</u> 09'13		min. Earth dist.	5917 Mar 15 20:23	26° <u>♏</u> 35'31	4.24177 AU
	5911 Aug 25 17:51	30° <u>♏</u>		opposition	5917 Mar 17 00:58	26° <u>♏</u> 25'54	0°46'50
opposition	5911 Sep 17 09:43	27° <u>♏</u> 15'00	-0°48'24	direct	5917 May 15 22:05	21° <u>♏</u> 25'11	
min. Earth dist.	5911 Sep 18 16:04	27° <u>♏</u> 05'10	4.12970 AU		5917 Aug 03 17:40	0° <u>♏</u>	
direct	5911 Nov 17 00:57	22° <u>♏</u> 18'10		evening set	5917 Sep 19 08:32	9° <u>♏</u> 37'42	
	5912 Jan 29 12:05	0° <u>♏</u>					
evening set	5912 Mar 21 17:04	11° <u>♏</u> 21'32		conjunction	5917 Oct 02 21:12	12° <u>♏</u> 36'35	0°43'10





























































































































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max. Earth dist.	5917 Oct 04 06:31	12°♌54'59	6.31910 AU	max. Earth dist.	5923 Mar 04 14:40	14°♋54'19	6.18793 AU
morning rise	5917 Oct 16 08:29	15°♌34'33					
	5918 Jan 01 20:25	0°♌		conjunction	5923 Mar 06 14:15	15°♋21'50	-0°22'42
retrograde	5918 Feb 16 07:32	3°♌06'26		minimum elong	5923 Mar 06 14:14	15°♋21'49	0°22'42
	5918 Apr 02 22:45	30°♌♌		morning rise	5923 Mar 19 07:52	18°♋18'25	
opposition	5918 Apr 17 13:21	28°♌07'06	1°14'03		5923 May 13 16:26	0°♐	
min. Earth dist.	5918 Apr 17 00:33	28°♌11'19	4.38518 AU	retrograde	5923 Jul 24 00:19	7°♐08'25	
direct	5918 Jun 17 17:12	23°♌05'12		opposition	5923 Sep 22 11:53	2°♐13'52	-0°53'49
	5918 Aug 28 18:43	0°♌		min. Earth dist.	5923 Sep 23 15:43	2°♐04'51	4.10701 AU
evening set	5918 Oct 21 23:49	10°♌42'18			5923 Oct 10 08:11	30°♋♋	
				direct	5923 Nov 21 21:37	27°♋17'27	
conjunction	5918 Nov 04 06:18	13°♌33'55	0°54'52		5924 Jan 02 16:46	0°♐	
minimum elong	5918 Nov 04 06:17	13°♌33'55	0°54'53	evening set	5924 Mar 26 15:26	16°♐27'19	
max. Earth dist.	5918 Nov 04 09:08	13°♌35'27	6.43692 AU	max. Earth dist.	5924 Apr 07 09:41	19°♐15'38	6.03403 AU
	5918 Nov 10 21:46	15°♌					
morning rise	5918 Nov 17 10:44	16°♌24'23		conjunction	5924 Apr 08 12:11	19°♐31'29	-0°46'46
	5919 Jan 30 09:57	0°♐		minimum elong	5924 Apr 08 12:10	19°♐31'28	0°46'46
retrograde	5919 Mar 18 07:43	3°♐14'39		morning rise	5924 Apr 21 10:27	22°♐36'42	
	5919 May 04 14:16	30°♐♌			5924 May 23 14:24	0°♄	
opposition	5919 May 17 21:07	28°♌18'46	1°19'34	retrograde	5924 Aug 29 13:47	12°♄39'01	
min. Earth dist.	5919 May 18 04:46	28°♌16'17	4.47067 AU	opposition	5924 Oct 28 15:21	7°♄41'22	-1°20'02
direct	5919 Jul 19 02:55	23°♌16'34		min. Earth dist.	5924 Oct 28 21:00	7°♄39'30	3.97447 AU
	5919 Sep 28 19:57	0°♐		direct	5924 Dec 26 14:25	2°♄46'57	
evening set	5919 Nov 22 01:36	10°♐35'45			5925 Mar 30 05:10	15°♄	
max. Earth dist.	5919 Dec 04 01:46	13°♐10'06	6.48383 AU	evening set	5925 May 01 15:41	22°♄34'28	
conjunction	5919 Dec 05 02:21	13°♐23'18	0°51'19	conjunction	5925 May 14 18:55	25°♄46'06	-0°54'26
minimum elong	5919 Dec 05 02:22	13°♐23'19	0°51'21	minimum elong	5925 May 14 18:56	25°♄46'06	0°54'28
morning rise	5919 Dec 18 00:34	16°♐09'40		max. Earth dist.	5925 May 15 04:18	25°♄51'49	5.93560 AU
	5920 Mar 03 17:32	0°♄		morning rise	5925 May 28 00:33	28°♄59'11	
retrograde	5920 Apr 16 03:31	2°♄47'14			5925 Jun 01 05:25	0°♄	
	5920 May 30 00:12	30°♐♐		retrograde	5925 Oct 07 07:26	19°♄45'45	
opposition	5920 Jun 16 00:03	27°♐53'51	1°04'16	opposition	5925 Dec 05 22:21	14°♄44'26	-1°15'27
min. Earth dist.	5920 Jun 17 00:31	27°♐46'00	4.47733 AU	min. Earth dist.	5925 Dec 05 04:38	14°♄50'24	3.92209 AU
direct	5920 Aug 17 17:03	22°♐52'04		direct	5926 Feb 01 23:13	9°♄50'17	
	5920 Oct 30 21:06	0°♄		evening set	5926 Jun 08 06:08	29°♄47'40	
evening set	5920 Dec 21 10:14	10°♄13'30			5926 Jun 09 02:35	0°♄	
max. Earth dist.	5921 Jan 01 09:55	12°♄36'21	6.44943 AU				
				conjunction	5926 Jun 21 17:06	3°♄03'04	-0°40'33
conjunction	5921 Jan 03 06:34	13°♄00'38	0°34'13	minimum elong	5926 Jun 21 17:08	3°♄03'05	0°40'35
minimum elong	5921 Jan 03 06:36	13°♄00'39	0°34'15	max. Earth dist.	5926 Jun 23 11:44	3°♄28'54	5.93413 AU
morning rise	5921 Jan 16 00:38	15°♄46'50		morning rise	5926 Jul 05 06:52	6°♄19'51	
	5921 Apr 04 06:49	0°♄		retrograde	5926 Nov 14 02:34	26°♄56'54	
retrograde	5921 May 17 00:00	2°♄41'50		min. Earth dist.	5927 Jan 11 03:48	22°♄04'38	3.97246 AU
	5921 Jun 29 05:17	30°♐♄		opposition	5927 Jan 12 14:41	21°♄52'47	-0°40'03
opposition	5921 Jul 16 22:25	27°♄49'33	0°31'51	direct	5927 Mar 11 13:09	16°♄56'46	
min. Earth dist.	5921 Jul 18 11:12	27°♄37'50	4.40385 AU		5927 Jun 17 12:30	0°♄	
direct	5921 Sep 17 12:36	22°♄48'52		evening set	5927 Jul 16 01:07	6°♄31'08	
	5921 Nov 30 03:21	0°♄					
evening set	5922 Jan 21 00:46	10°♄32'36		conjunction	5927 Jul 29 17:17	9°♄44'24	-0°10'48
max. Earth dist.	5922 Jan 31 11:41	12°♄52'11	6.34172 AU	minimum elong	5927 Jul 29 17:18	9°♄44'25	0°10'50
				behind sun begin	5927 Jul 29 10:59	9°♄40'42	
conjunction	5922 Feb 02 18:36	13°♄22'52	0°07'28	behind sun end	5927 Jul 29 23:37	9°♄48'07	
minimum elong	5922 Feb 02 18:37	13°♄22'52	0°07'29	max. Earth dist.	5927 Aug 01 03:14	10°♄18'34	6.03065 AU
behind sun begin	5922 Feb 02 11:21	13°♄18'50		morning rise	5927 Aug 12 11:23	12°♄58'20	
behind sun end	5922 Feb 03 01:53	13°♄26'54			5927 Aug 21 05:08	15°♄	
	5922 Feb 10 00:34	15°♄			5927 Nov 08 13:43	0°♐	
morning rise	5922 Feb 15 11:14	16°♄12'44		asc. node	5927 Dec 05 11:27	2°♐18'36	
	5922 Apr 28 00:19	0°♋		retrograde	5927 Dec 19 15:34	2°♐38'34	
desc. node	5922 May 11 09:25	1°♋41'27			5928 Jan 29 14:00	30°♐♌	
retrograde	5922 Jun 18 17:56	3°♋54'07		min. Earth dist.	5928 Feb 15 17:48	27°♌46'30	4.10340 AU
	5922 Aug 10 21:03	30°♐♋		opposition	5928 Feb 17 06:25	27°♌34'03	0°09'07
opposition	5922 Aug 18 13:33	29°♋01'21	-0°11'12	direct	5928 Apr 16 01:23	22°♌35'15	
min. Earth dist.	5922 Aug 20 03:47	28°♋49'06	4.26781 AU		5928 Jun 26 22:00	0°♐	
direct	5922 Oct 19 07:28	24°♋02'28		evening set	5928 Aug 20 13:22	11°♐26'40	
	5922 Dec 23 10:05	0°♋					

conjunction	5928 Sep 03 05:43	14° \mathbb{M} 32'57	0°21'49	conjunction	5934 Feb 07 04:20	17° \approx 55'04	0°03'14
minimum elong	5928 Sep 03 05:41	14° \mathbb{M} 32'56	0°21'49	minimum elong	5934 Feb 07 04:19	17° \approx 55'04	0°03'15
max. Earth dist.	5928 Sep 05 10:12	15° \mathbb{M} 02'47	6.18389 AU	behind sun begin	5934 Feb 06 20:24	17° \approx 50'39	
morning rise	5928 Sep 16 21:58	17° \mathbb{M} 38'54		behind sun end	5934 Feb 07 12:14	17° \approx 59'29	
	5928 Nov 16 12:46	0° $\underline{\mathbb{L}}$		morning rise	5934 Feb 19 20:45	20° \approx 45'39	
retrograde	5929 Jan 20 14:44	6° $\underline{\mathbb{L}}$ 05'55		desc. node	5934 Mar 20 17:43	27° \approx 00'28	
min. Earth dist.	5929 Mar 20 09:18	1° $\underline{\mathbb{L}}$ 12'41	4.26352 AU		5934 Apr 04 20:00	0° \mathbb{H}	
opposition	5929 Mar 21 12:19	1° $\underline{\mathbb{L}}$ 03'37	0°51'49	retrograde	5934 Jun 23 13:46	8° \mathbb{H} 35'12	
	5929 Mar 29 11:37	30° \mathbb{R} \mathbb{M}		opposition	5934 Aug 23 08:16	3° \mathbb{H} 42'22	-0°17'33
direct	5929 May 20 13:06	26° \mathbb{M} 02'43		min. Earth dist.	5934 Aug 24 21:47	3° \mathbb{H} 30'21	4.24776 AU
	5929 Jul 11 13:50	0° $\underline{\mathbb{L}}$			5934 Sep 25 01:11	30° \mathbb{R} \approx	
evening set	5929 Sep 23 23:53	14° $\underline{\mathbb{L}}$ 09'38		direct	5934 Oct 23 22:40	28° \approx 43'56	
					5934 Nov 21 17:34	0° \mathbb{H}	
conjunction	5929 Oct 07 11:37	17° $\underline{\mathbb{L}}$ 07'23	0°45'41	evening set	5935 Feb 26 11:28	17° \mathbb{H} 12'30	
minimum elong	5929 Oct 07 11:36	17° $\underline{\mathbb{L}}$ 07'22	0°45'42	max. Earth dist.	5935 Mar 09 07:15	19° \mathbb{H} 42'54	6.16852 AU
max. Earth dist.	5929 Oct 08 15:24	17° $\underline{\mathbb{L}}$ 22'39	6.33780 AU				
morning rise	5929 Oct 20 22:09	20° $\underline{\mathbb{L}}$ 04'14		conjunction	5935 Mar 11 05:24	20° \mathbb{H} 09'44	-0°26'40
	5929 Dec 08 20:20	0° \mathbb{M}		minimum elong	5935 Mar 11 05:23	20° \mathbb{H} 09'43	0°26'40
retrograde	5930 Feb 20 13:23	7° \mathbb{M} 29'14		morning rise	5935 Mar 23 23:34	23° \mathbb{H} 07'19	
opposition	5930 Apr 21 19:46	2° \mathbb{M} 30'22	1°16'06		5935 Apr 23 17:52	0° \mathbb{Y}	
min. Earth dist.	5930 Apr 21 10:32	2° \mathbb{M} 33'25	4.39966 AU	retrograde	5935 Jul 29 01:59	12° \mathbb{Y} 06'23	
	5930 May 11 19:07	30° \mathbb{R} $\underline{\mathbb{L}}$		opposition	5935 Sep 27 13:33	7° \mathbb{Y} 11'27	-0°58'48
direct	5930 Jun 22 04:06	27° $\underline{\mathbb{L}}$ 28'21		min. Earth dist.	5935 Sep 28 13:56	7° \mathbb{Y} 03'31	4.08992 AU
	5930 Aug 02 22:33	0° \mathbb{M}		direct	5935 Nov 26 18:34	2° \mathbb{Y} 15'23	
evening set	5930 Oct 26 09:23	15° \mathbb{M} 02'23		evening set	5936 Mar 31 12:23	21° \mathbb{Y} 29'44	
	5930 Oct 26 04:56	15° \mathbb{M}					
conjunction	5930 Nov 08 15:12	17° \mathbb{M} 53'21	0°55'15	conjunction	5936 Apr 13 09:52	24° \mathbb{Y} 34'47	-0°48'58
minimum elong	5930 Nov 08 15:12	17° \mathbb{M} 53'21	0°55'15	minimum elong	5936 Apr 13 09:51	24° \mathbb{Y} 34'46	0°48'59
max. Earth dist.	5930 Nov 08 15:02	17° \mathbb{M} 53'15	6.44620 AU	max. Earth dist.	5936 Apr 12 13:20	24° \mathbb{Y} 22'28	6.02092 AU
morning rise	5930 Nov 21 18:35	20° \mathbb{M} 43'05		morning rise	5936 Apr 26 08:44	27° \mathbb{Y} 40'53	
	5931 Jan 07 03:45	0° \mathbb{Z}			5936 May 06 03:55	0° \mathbb{B}	
retrograde	5931 Mar 22 10:37	7° \mathbb{Z} 30'28		retrograde	5936 Jul 23 00:06	15° \mathbb{B}	
opposition	5931 May 22 01:43	2° \mathbb{Z} 35'02	1°18'35		5936 Sep 03 21:59	17° \mathbb{B} 49'39	
min. Earth dist.	5931 May 22 11:08	2° \mathbb{Z} 31'59	4.47442 AU		5936 Oct 17 02:57	15° \mathbb{R} \mathbb{B}	
	5931 Jun 12 01:49	30° \mathbb{R} \mathbb{M}		opposition	5936 Nov 02 21:11	12° \mathbb{B} 51'33	-1°21'19
direct	5931 Jul 23 08:31	27° \mathbb{M} 32'53		min. Earth dist.	5936 Nov 03 00:23	12° \mathbb{B} 50'29	3.96679 AU
	5931 Sep 02 23:43	0° \mathbb{Z}		direct	5936 Dec 31 17:39	7° \mathbb{B} 57'19	
evening set	5931 Nov 26 08:20	14° \mathbb{Z} 51'57			5937 Mar 09 23:15	15° \mathbb{B}	
max. Earth dist.	5931 Dec 08 04:00	17° \mathbb{Z} 24'05	6.48181 AU	evening set	5937 May 06 17:29	27° \mathbb{B} 46'03	
					5937 May 15 22:01	0° \mathbb{I}	
conjunction	5931 Dec 09 08:19	17° \mathbb{Z} 39'19	0°49'38	conjunction	5937 May 19 21:34	0° \mathbb{I} 58'11	-0°53'46
minimum elong	5931 Dec 09 08:20	17° \mathbb{Z} 39'19	0°49'40	minimum elong	5937 May 19 21:34	0° \mathbb{I} 58'11	0°53'46
morning rise	5931 Dec 22 05:55	20° \mathbb{Z} 25'32		max. Earth dist.	5937 May 20 10:49	1° \mathbb{I} 06'15	5.93395 AU
	5932 Feb 08 09:54	0° \mathbb{B}		morning rise	5937 Jun 02 04:21	4° \mathbb{I} 11'50	
retrograde	5932 Apr 20 11:17	7° \mathbb{B} 04'26		retrograde	5937 Oct 12 11:10	24° \mathbb{I} 58'31	
opposition	5932 Jun 20 06:51	2° \mathbb{B} 11'22	1°00'35	min. Earth dist.	5937 Dec 10 05:30	20° \mathbb{I} 03'54	3.92694 AU
min. Earth dist.	5932 Jun 21 10:12	2° \mathbb{B} 02'37	4.46975 AU	opposition	5937 Dec 11 02:36	19° \mathbb{I} 56'47	-1°12'07
	5932 Jul 07 23:49	30° \mathbb{R} \mathbb{Z}		direct	5938 Feb 07 01:02	15° \mathbb{I} 02'30	
direct	5932 Aug 22 00:59	27° \mathbb{Z} 09'46			5938 May 23 09:44	0° \mathbb{B}	
	5932 Oct 05 23:15	0° \mathbb{B}		evening set	5938 Jun 13 09:13	4° \mathbb{B} 57'13	
evening set	5932 Dec 25 16:52	14° \mathbb{B} 33'49					
max. Earth dist.	5933 Jan 05 13:36	16° \mathbb{B} 55'32	6.43691 AU	conjunction	5938 Jun 26 20:59	8° \mathbb{B} 12'30	-0°37'10
				minimum elong	5938 Jun 26 21:01	8° \mathbb{B} 12'31	0°37'12
conjunction	5933 Jan 07 12:47	17° \mathbb{B} 21'16	0°30'53	max. Earth dist.	5938 Jun 28 17:18	8° \mathbb{B} 39'16	5.94486 AU
minimum elong	5933 Jan 07 12:48	17° \mathbb{B} 21'17	0°30'54	morning rise	5938 Jul 10 11:34	11° \mathbb{B} 29'07	
morning rise	5933 Jan 20 06:35	20° \mathbb{B} 07'52			5938 Oct 14 15:44	0° \mathbb{I}	
	5933 Mar 10 06:20	0° \approx		retrograde	5938 Nov 19 00:44	1° \mathbb{I} 59'53	
retrograde	5933 May 21 11:47	7° \approx 08'11			5938 Dec 24 05:24	30° \mathbb{R} \mathbb{B}	
opposition	5933 Jul 21 10:13	2° \approx 15'58	0°26'11	min. Earth dist.	5939 Jan 16 01:58	27° \mathbb{B} 07'31	3.98768 AU
min. Earth dist.	5933 Jul 22 22:55	2° \approx 04'15	4.38734 AU	opposition	5939 Jan 17 12:59	26° \mathbb{B} 55'36	-0°33'43
	5933 Aug 08 20:56	30° \mathbb{R} \mathbb{B}		direct	5939 Mar 16 14:15	21° \mathbb{B} 59'12	
direct	5933 Sep 21 21:20	27° \mathbb{B} 15'34			5939 May 29 07:34	0° \mathbb{I}	
	5933 Nov 04 14:38	0° \approx		evening set	5939 Jul 21 01:05	11° \mathbb{I} 28'20	
evening set	5934 Jan 25 10:32	15° \approx 04'06					
	5934 Jan 25 03:09	15° \approx		conjunction	5939 Aug 03 17:44	14° \mathbb{I} 40'55	-0°06'18
max. Earth dist.	5934 Feb 04 23:23	17° \approx 25'21	6.32274 AU	minimum elong	5939 Aug 03 17:45	14° \mathbb{I} 40'56	0°06'19

behind sun begin	5939 Aug 03 09:50	14°♎36'19		min. Earth dist.	5945 Jul 27 11:16	6°♊28'01	4.37201 AU
behind sun end	5939 Aug 04 01:39	14°♎45'33		direct	5945 Sep 26 07:38	1°♊39'57	
	5939 Aug 05 02:15	15°♎			5946 Jan 08 23:29	15°♊	
max. Earth dist.	5939 Aug 06 04:40	15°♎15'30	6.04903 AU	desc. node	5946 Jan 28 15:11	19°♊17'06	
morning rise	5939 Aug 17 11:48	17°♎53'59		evening set	5946 Jan 29 18:58	19°♊32'36	
	5939 Oct 13 05:13	0°♏		max. Earth dist.	5946 Feb 09 06:39	21°♊53'50	6.30452 AU
asc. node	5939 Oct 17 08:00	0°♏44'17					
retrograde	5939 Dec 24 06:25	7°♏25'03		conjunction	5946 Feb 11 12:34	22°♊24'12	-0°01'06
min. Earth dist.	5940 Feb 20 09:33	2°♏32'52	4.12304 AU	minimum elong	5946 Feb 11 12:34	22°♊24'12	0°01'05
opposition	5940 Feb 21 21:10	2°♏20'47	0°15'36	behind sun begin	5946 Feb 11 04:36	22°♊19'44	
	5940 Mar 10 22:27	30°♏♎		behind sun end	5946 Feb 11 20:33	22°♊28'40	
direct	5940 Apr 20 18:53	27°♎21'42		morning rise	5946 Feb 24 05:08	25°♊15'33	
	5940 May 31 20:21	0°♏			5946 Mar 17 19:17	0°♏	
evening set	5940 Aug 25 08:01	16°♏07'41		retrograde	5946 Jun 28 06:48	13°♏13'05	
				opposition	5946 Aug 28 01:47	8°♏19'56	-0°23'46
conjunction	5940 Sep 07 23:50	19°♏12'55	0°25'42	min. Earth dist.	5946 Aug 29 13:27	8°♏08'28	4.22763 AU
minimum elong	5940 Sep 07 23:48	19°♏12'54	0°25'42	direct	5946 Oct 28 11:46	3°♏21'44	
max. Earth dist.	5940 Sep 10 00:11	19°♏40'17	6.20305 AU	evening set	5947 Mar 03 01:03	21°♏55'56	
morning rise	5940 Sep 21 15:41	22°♏17'48		max. Earth dist.	5947 Mar 14 00:45	24°♏29'15	6.14805 AU
	5940 Oct 27 12:24	0°♎					
retrograde	5941 Jan 24 21:37	10°♎36'37		conjunction	5947 Mar 15 19:20	24°♏54'07	-0°30'27
opposition	5941 Mar 25 20:41	5°♎34'43	0°56'18	minimum elong	5947 Mar 15 19:18	24°♏54'06	0°30'27
min. Earth dist.	5941 Mar 24 20:02	5°♎42'59	4.28083 AU	morning rise	5947 Mar 28 13:46	27°♏52'43	
direct	5941 May 25 01:34	0°♎33'36			5947 Apr 06 18:37	0°♏	
evening set	5941 Sep 28 12:40	18°♎36'33		retrograde	5947 Aug 03 04:57	17°♏01'25	
				opposition	5947 Oct 02 14:18	12°♏06'08	-1°03'23
conjunction	5941 Oct 11 23:51	21°♎33'26	0°47'50	min. Earth dist.	5947 Oct 03 13:16	11°♏58'39	4.07071 AU
minimum elong	5941 Oct 11 23:50	21°♎33'26	0°47'52	direct	5947 Dec 01 15:46	7°♏10'21	
max. Earth dist.	5941 Oct 13 01:00	21°♎47'14	6.35218 AU	evening set	5948 Apr 05 09:05	26°♏30'11	
morning rise	5941 Oct 25 09:20	24°♎29'19					
	5941 Nov 20 10:15	0°♏		conjunction	5948 Apr 18 07:12	29°♏36'16	-0°50'50
retrograde	5942 Feb 24 17:03	11°♏48'52		minimum elong	5948 Apr 18 07:11	29°♏36'16	0°50'52
opposition	5942 Apr 26 00:32	6°♏50'31	1°17'41	max. Earth dist.	5948 Apr 17 13:29	29°♏25'37	6.00466 AU
min. Earth dist.	5942 Apr 25 17:18	6°♏52'53	4.41036 AU		5948 Apr 19 22:39	0°♏	
direct	5942 Jun 26 11:48	1°♏48'29		morning rise	5948 May 01 07:07	2°♏43'33	
	5942 Oct 10 00:51	15°♏			5948 Jun 26 00:43	15°♏	
evening set	5942 Oct 30 17:43	19°♏20'29		retrograde	5948 Sep 09 03:55	22°♏59'57	
				opposition	5948 Nov 08 02:40	18°♏01'21	-1°22'03
conjunction	5942 Nov 12 22:36	22°♏10'53	0°55'17	min. Earth dist.	5948 Nov 08 01:50	18°♏01'37	3.95540 AU
minimum elong	5942 Nov 12 22:36	22°♏10'53	0°55'19		5948 Dec 02 16:57	15°♏	
max. Earth dist.	5942 Nov 12 17:19	22°♏08'02	6.45244 AU	direct	5949 Jan 05 18:08	13°♏07'13	
morning rise	5942 Nov 26 01:20	25°♏00'05			5949 Feb 08 12:05	15°♏	
	5942 Dec 19 23:52	0°♏		evening set	5949 Apr 29 09:57	0°♏	
retrograde	5943 Mar 26 15:17	11°♏45'29			5949 May 11 20:24	2°♏58'58	
opposition	5943 May 26 06:08	6°♏50'23	1°17'10				
min. Earth dist.	5943 May 26 18:37	6°♏46'20	4.47609 AU	conjunction	5949 May 25 01:33	6°♏11'52	-0°52'40
direct	5943 Jul 27 15:57	1°♏48'13		minimum elong	5949 May 25 01:34	6°♏11'52	0°52'42
evening set	5943 Nov 30 14:01	19°♏07'21		max. Earth dist.	5949 May 25 19:17	6°♏22'40	5.92851 AU
max. Earth dist.	5943 Dec 12 07:28	21°♏38'25	6.47877 AU	morning rise	5949 Jun 07 09:28	9°♏26'18	
					5949 Oct 05 15:10	0°♏	
conjunction	5943 Dec 13 13:31	21°♏54'36	0°47'41	retrograde	5949 Oct 17 18:01	0°♏14'39	
minimum elong	5943 Dec 13 13:32	21°♏54'37	0°47'43		5949 Oct 29 20:30	30°♏♏	
morning rise	5943 Dec 26 10:22	24°♏40'41		min. Earth dist.	5949 Dec 15 09:26	25°♏20'15	3.92806 AU
	5944 Jan 20 23:23	0°♏		opposition	5949 Dec 16 08:28	25°♏12'28	-1°08'13
retrograde	5944 Apr 24 15:43	11°♏21'01		direct	5950 Feb 12 06:49	20°♏17'58	
opposition	5944 Jun 24 13:10	6°♏28'04	0°56'35		5950 May 04 16:24	0°♏	
min. Earth dist.	5944 Jun 25 17:02	6°♏19'09	4.46226 AU	evening set	5950 Jun 18 14:41	10°♏11'31	
direct	5944 Aug 26 06:18	1°♏26'34					
evening set	5944 Dec 29 22:47	18°♏52'46		conjunction	5950 Jul 02 03:34	13°♏26'56	-0°33'26
max. Earth dist.	5945 Jan 09 18:12	21°♏14'11	6.42532 AU	minimum elong	5950 Jul 02 03:35	13°♏26'57	0°33'28
				max. Earth dist.	5950 Jul 04 04:20	13°♏56'19	5.95246 AU
conjunction	5945 Jan 11 18:12	21°♏40'27	0°27'23	morning rise	5950 Jul 15 18:54	16°♏43'33	
minimum elong	5945 Jan 11 18:13	21°♏40'28	0°27'25		5950 Sep 14 22:01	0°♏	
morning rise	5945 Jan 24 11:38	24°♏27'22		retrograde	5950 Nov 24 02:48	7°♏09'00	
	5945 Feb 19 16:06	0°♏		min. Earth dist.	5951 Jan 21 02:11	2°♏16'48	4.00087 AU
retrograde	5945 May 25 23:24	11°♏32'27		opposition	5951 Jan 22 14:01	2°♏04'36	-0°26'59
opposition	5945 Jul 25 21:11	6°♏40'10	0°20'23		5951 Feb 07 08:31	30°♏♏	

direct	5951 Mar 21 16:29	27°  07'54		conjunction	5957 Jan 15 20:36	25°  53'19	0°23'53	
	5951 May 02 20:19	0°  Ω		minimum elong	5957 Jan 15 20:37	25°  53'20	0°23'55	
	5951 Jul 19 12:46	15°  Ω		morning rise	5957 Jan 28 13:39	28°   40'27		
evening set	5951 Jul 26 04:45	16°  Ω32'37			5957 Feb 03 16:09	0°  ≈		
					5957 May 07 00:00	15°  ≈		
conjunction	5951 Aug 08 21:29	19°  Ω44'28	-0°01'34	retrograde	5957 May 30 06:06	15°  ≈49'57		
minimum elong	5951 Aug 08 21:31	19°  Ω44'29	0°01'35		5957 Jun 22 13:51	15°   ≈		
behind sun begin	5951 Aug 08 13:06	19°  Ω39'36		opposition	5957 Jul 30 05:13	10°  ≈57'35	0°14'41	
behind sun end	5951 Aug 09 05:55	19°  Ω49'22		min. Earth dist.	5957 Jul 31 19:16	10°  ≈45'27	4.35781 AU	
max. Earth dist.	5951 Aug 11 07:23	20°  Ω18'17	6.06645 AU	direct	5957 Sep 30 12:53	5°  ≈57'34		
morning rise	5951 Aug 22 15:48	22°  Ω56'46		desc. node	5957 Dec 10 15:25	12°  ≈47'20		
asc. node	5951 Aug 27 04:15	23°  Ω59'21			5957 Dec 22 18:27	15°  ≈		
	5951 Sep 23 05:03	0°                                		evening set	5958 Feb 03 00:15	23°  ≈54'16		
retrograde	5951 Dec 28 22:15	12°                                		max. Earth dist.	5958 Feb 13 12:07	26°  ≈16'12	6.28602 AU	
min. Earth dist.	5952 Feb 25 03:34	7°                                	4.14300 AU					
opposition	5952 Feb 26 14:51	7°                                	0°22'11	conjunction	5958 Feb 15 17:43	26°  ≈46'32	-0°05'12	
direct	5952 Apr 25 15:53	2°                                	0°22'11	minimum elong	5958 Feb 15 17:43	26°  ≈46'32	0°05'11	
evening set	5952 Aug 30 05:54	20°                                	0°22'11	behind sun begin	5958 Feb 15 09:59	26°  ≈42'11		
				behind sun end	5958 Feb 16 01:27	26°  ≈50'53		
conjunction	5952 Sep 12 21:23	23°                                	0°29'34	morning rise	5958 Feb 28 10:18	29°  ≈38'38		
minimum elong	5952 Sep 12 21:22	23°                                	0°29'34		5958 Mar 02 00:20	0°        		
max. Earth dist.	5952 Sep 14 20:11</							

morning rise	5962 Jul 21 04:52	22°  03'40		direct	5968 Sep 03 19:19	9°  56'45	
	5962 Aug 24 20:21	0°  0		evening set	5969 Jan 07 08:14	27°  26'51	
retrograde	5962 Nov 29 04:19	12°  23'46		max. Earth dist.	5969 Jan 17 22:32	29°  46'20	6.40160 AU
min. Earth dist.	5963 Jan 26 03:00	7°  31'59	4.01382 AU		5969 Jan 18 23:22	0°  0	
opposition	5963 Jan 27 16:40	7°  19'08	-0°19'59				
direct	5963 Mar 26 20:21	2°  21'59		conjunction	5969 Jan 20 02:50	0°  15'07	0°20'05
	5963 Jul 01 15:48	15°  0		minimum elong	5969 Jan 20 02:51	0°  15'08	0°20'08
asc. node	5963 Jul 06 06:02	15°  59'54		morning rise	5969 Feb 01 19:46	3°  02'45	
evening set	5963 Jul 31 10:34	21°  42'03			5969 Apr 03 14:08	15°  0	
				retrograde	5969 Jun 03 20:47	20°  18'42	
conjunction	5963 Aug 14 03:39	24°  53'10	0°03'18	opposition	5969 Aug 03 18:28	15°  26'19	0°08'35
minimum elong	5963 Aug 14 03:37	24°  53'09	0°03'18	min. Earth dist.	5969 Aug 05 10:00	15°  13'42	4.33825 AU
behind sun begin	5963 Aug 13 19:17	24°  48'20			5969 Aug 07 04:56	15°  0	
behind sun end	5963 Aug 14 11:57	24°  57'59		direct	5969 Oct 05 00:32	10°  26'29	
max. Earth dist.	5963 Aug 16 14:23	25°  27'20	6.08507 AU	desc. node	5969 Oct 20 03:21	10°  47'29	
morning rise	5963 Aug 27 21:43	28°  04'28			5969 Nov 30 20:23	15°  0	
	5963 Sep 05 07:40	0°  0		evening set	5970 Feb 07 10:56	28°  29'02	
retrograde	5964 Jan 02 17:37	17°  16'30			5970 Feb 14 03:46	0°  0	
min. Earth dist.	5964 Mar 01 00:16	12°  24'05	4.16489 AU	max. Earth dist.	5970 Feb 17 23:04	0°  51'51	6.26319 AU
opposition	5964 Mar 02 10:13	12°  12'36	0°28'38				
direct	5964 Apr 30 16:25	7°  12'51		conjunction	5970 Feb 20 04:32	1°  22'15	-0°09'28
evening set	5964 Sep 04 05:01	25°  46'28		minimum elong	5970 Feb 20 04:31	1°  22'14	0°09'27
				behind sun begin	5970 Feb 19 21:49	1°  18'27	
conjunction	5964 Sep 17 19:53	28°  49'21	0°33'16	behind sun end	5970 Feb 20 11:12	1°  26'01	
minimum elong	5964 Sep 17 19:51	28°  49'20	0°33'17	morning rise	5970 Mar 04 21:16	4°  15'21	
max. Earth dist.	5964 Sep 19 16:33	29°  14'23	6.24723 AU	retrograde	5970 Jul 07 20:53	22°  31'33	
	5964 Sep 23 02:03	0°  0		opposition	5970 Sep 06 13:44	17°  37'59	-0°35'46
morning rise	5964 Oct 01 10:11	1°  51'37		min. Earth dist.	5970 Sep 07 23:52	17°  26'59	4.18129 AU
retrograde	5965 Feb 02 17:23	19°  51'28		direct	5970 Nov 06 15:09	12°  40'23	
opposition	5965 Apr 03 19:37	14°  50'26	1°04'30		5971 Mar 05 21:41	0°  0	
min. Earth dist.	5965 Apr 02 22:17	14°  57'32	4.32356 AU	evening set	5971 Mar 12 06:16	1°  28'42	
direct	5965 Jun 03 09:27	9°  48'58		max. Earth dist.	5971 Mar 23 10:32	4°  06'22	6.10057 AU
evening set	5965 Oct 07 18:50	27°  40'38					
	5965 Oct 18 11:28	0°  0		conjunction	5971 Mar 25 01:16	4°  29'13	-0°37'24
				minimum elong	5971 Mar 25 01:15	4°  29'12	0°37'24
conjunction	5965 Oct 21 04:11	0°  35'15	0°51'29	morning rise	5971 Apr 06 21:01	7°  30'24	
minimum elong	5965 Oct 21 04:09	0°  35'14	0°51'30	retrograde	5971 Aug 13 13:37	27°  01'30	
max. Earth dist.	5965 Oct 21 21:35	0°  44'44	6.39017 AU	opposition	5971 Oct 12 18:49	22°  05'26	-1°11'19
morning rise	5965 Nov 03 11:41	3°  28'46		min. Earth dist.	5971 Oct 13 12:24	21°  05'40	4.02627 AU
	5966 Jan 01 10:46	15°  0		direct	5971 Dec 11 09:34	17°  10'13	
retrograde	5966 Mar 05 03:24	20°  34'33			5972 Mar 17 10:19	0°  0	
opposition	5966 May 04 13:44	15°  37'09	1°19'39	evening set	5972 Apr 15 07:09	6°  43'55	
min. Earth dist.	5966 May 04 11:54	15°  37'45	4.44115 AU				
	5966 May 09 07:40	15°  0		conjunction	5972 Apr 28 07:13	9°  52'33	-0°53'28
direct	5966 Jul 05 09:42	10°  35'00		minimum elong	5972 Apr 28 07:12	9°  52'33	0°53'29
	5966 Aug 31 01:03	15°  0		max. Earth dist.	5972 Apr 27 23:13	9°  47'42	5.96771 AU
evening set	5966 Nov 08 11:16	27°  59'34		morning rise	5972 May 11 09:13	13°  02'30	
	5966 Nov 17 20:12	0°  0			5972 May 19 13:32	15°  0	
					5972 Aug 02 12:37	0°  0	
conjunction	5966 Nov 21 14:27	0°  48'28	0°54'34	retrograde	5972 Sep 20 00:19	3°  35'50	
minimum elong	5966 Nov 21 14:27	0°  48'28	0°54'37		5972 Nov 08 04:27	30°  0	
max. Earth dist.	5966 Nov 21 02:04	0°  41'49	6.47371 AU	opposition	5972 Nov 18 18:48	28°  36'18	-1°21'36
morning rise	5966 Dec 04 15:17	3°  36'09		min. Earth dist.	5972 Nov 18 11:39	28°  38'41	3.93039 AU
retrograde	5967 Apr 03 21:11	20°  41'14		direct	5973 Jan 16 02:27	23°  42'22	
opposition	5967 Jun 03 15:27	15°  42'50	1°13'13		5973 Mar 20 22:15	0°  0	
min. Earth dist.	5967 Jun 04 08:30	15°  41'52	4.48670 AU	evening set	5973 May 22 08:58	13°  41'04	
direct	5967 Aug 05 05:41	10°  41'46					
evening set	5967 Dec 09 00:12	27°  43'47		conjunction	5973 Jun 04 16:27	16°  55'37	-0°49'11
max. Earth dist.	5967 Dec 20 10:22	0°  30'08	6.47780 AU	minimum elong	5973 Jun 04 16:28	16°  55'38	0°49'13
	5967 Dec 20 04:34	0°  0		max. Earth dist.	5973 Jun 05 19:58	17°  12'23	5.91809 AU
				morning rise	5973 Jun 18 02:57	20°  11'43	
conjunction	5967 Dec 21 22:20	0°  32'22	0°43'08		5973 Jul 30 19:55	0°  0	
minimum elong	5967 Dec 21 22:21	0°  32'22	0°43'09	retrograde	5973 Oct 28 11:51	11°  01'42	
morning rise	5968 Jan 03 17:53	3°  08'11		min. Earth dist.	5973 Dec 25 19:16	6°  08'33	3.93389 AU
retrograde	5968 May 03 02:17	19°  50'36		opposition	5973 Dec 27 00:24	5°  05'40	-0°58'40
opposition	5968 Jul 03 01:15	14°  57'59	0°47'49	direct	5974 Feb 22 20:33	1°  03'42	
min. Earth dist.	5968 Jul 04 09:09	14°  47'49	4.44960 AU	evening set	5974 Jun 29 07:49	20°  53'30	

conjunction	5974 Jul 12 22:21	24°  08'41	-0°25'07	minimum elong	5979 Dec 26 02:51	4°  37'51	0°40'33
minimum elong	5974 Jul 12 22:23	24°  08'42	0°25'09	morning rise	5980 Jan 07 22:05	7°  23'41	
max. Earth dist.	5974 Jul 15 05:02	24°  41'26	5.97383 AU	retrograde	5980 May 07 11:00	24°  09'45	
morning rise	5974 Jul 26 15:09	27°  24'52		opposition	5980 Jul 07 09:16	19°  17'15	0°43'01
	5974 Aug 06 15:06	0°  Ω		min. Earth dist.	5980 Jul 08 19:08	19°  06'26	4.43535 AU
	5974 Oct 24 14:31	15°  Ω		direct	5980 Sep 08 02:24	14°  16'05	
retrograde	5974 Dec 04 05:53	17°  Ω36'01			5981 Jan 03 03:52	0°  ≈	
	5975 Jan 13 17:38	15°  RΩ		evening set	5981 Jan 11 15:11	1°  ≈50'35	
min. Earth dist.	5975 Jan 31 04:51	12°  Ω44'02	4.03490 AU	max. Earth dist.	5981 Jan 22 05:22	4°  ≈10'34	6.38245 AU
opposition	5975 Feb 01 18:12	12°  Ω31'19	-0°12'55				
direct	5975 Apr 01 01:58	7°  Ω33'48		conjunction	5981 Jan 24 09:43	4°  ≈39'31	0°16'12
asc. node	5975 May 15 21:03	10°  Ω45'04		minimum elong	5981 Jan 24 09:44	4°  ≈39'32	0°16'13
	5975 Jun 11 07:34	15°  Ω		morning rise	5981 Feb 06 02:24	7°  ≈27'50	
evening set	5975 Aug 05 14:24	26°  Ω46'33			5981 Mar 13 21:23	15°  ≈	
				retrograde	5981 Jun 08 11:40	24°  ≈51'41	
conjunction	5975 Aug 19 07:22	29°  Ω56'29	0°07'56	opposition	5981 Aug 08 09:23	19°  ≈59'14	0°02'24
minimum elong	5975 Aug 19 07:21	29°  Ω56'28	0°07'55	min. Earth dist.	5981 Aug 10 00:22	19°  ≈46'47	4.31544 AU
behind sun begin	5975 Aug 18 23:53	29°  Ω52'11		desc. node	5981 Aug 29 20:49	17°  ≈22'46	
behind sun end	5975 Aug 19 14:50	0°  ൬00'46			5981 Oct 07 17:19	15°  R≈	
	5975 Aug 19 13:30	0°  ൬		direct	5981 Oct 09 11:11	14°  ≈59'43	
max. Earth dist.	5975 Aug 21 17:57	0°  ൬30'20	6.10979 AU		5981 Oct 11 05:02	15°  ≈	
morning rise	5975 Sep 02 01:11	3°  ൬06'30			5982 Jan 28 21:24	0°  X	
retrograde	5976 Jan 07 07:15	22°  ൬06'50		evening set	5982 Feb 11 23:31	3°  X08'59	
min. Earth dist.	5976 Mar 05 16:42	17°  ൬14'32	4.19075 AU	max. Earth dist.	5982 Feb 22 12:33	5°  X33'09	6.23853 AU
opposition	5976 Mar 07 02:07	17°  ൬03'14	0°34'41				
direct	5976 May 05 12:15	12°  ൬03'10		conjunction	5982 Feb 24 17:02	6°  X03'10	-0°13'42
	5976 Sep 06 19:36	0°  Ω		minimum elong	5982 Feb 24 17:01	6°  X03'10	0°13'41
evening set	5976 Sep 09 00:40	0°  Ω29'21		behind sun begin	5982 Feb 24 12:35	6°  X00'38	
				behind sun end	5982 Feb 24 21:27	6°  X05'42	
conjunction	5976 Sep 22 14:46	3°  Ω30'51	0°36'37	morning rise	5982 Mar 09 10:08	8°  X57'25	
minimum elong	5976 Sep 22 14:45	3°  Ω30'50	0°36'38	retrograde	5982 Jul 12 23:15	27°  X24'23	
max. Earth dist.	5976 Sep 24 06:57	3°  Ω53'15	6.27206 AU	opposition	5982 Sep 11 13:34	22°  X30'32	-0°41'42
morning rise	5976 Oct 06 04:12	6°  Ω31'40		min. Earth dist.	5982 Sep 12 22:14	22°  X19'58	4.15659 AU
retrograde	5977 Feb 07 01:48	24°  Ω21'46		direct	5982 Nov 11 10:48	17°  X33'15	
min. Earth dist.	5977 Apr 07 10:29	19°  Ω27'10	4.34531 AU		5983 Feb 16 14:31	0°  Y	
opposition	5977 Apr 08 04:13	19°  Ω21'16	1°07'52	evening set	5983 Mar 17 02:23	6°  Y28'48	
direct	5977 Jun 07 23:48	14°  Ω19'37		max. Earth dist.	5983 Mar 28 11:43	9°  Y10'11	6.07820 AU
	5977 Oct 02 11:17	0°  ℳ					
evening set	5977 Oct 12 06:30	2°  ℳ05'51		conjunction	5983 Mar 29 22:02	9°  Y30'31	-0°40'38
				minimum elong	5983 Mar 29 22:00	9°  Y30'30	0°40'39
conjunction	5977 Oct 25 15:02	4°  ℳ59'26	0°52'48	morning rise	5983 Apr 11 18:24	12°  Y32'58	
minimum elong	5977 Oct 25 15:01	4°  ℳ59'26	0°52'49		5983 Jul 11 20:10	0°  X	
max. Earth dist.	5977 Oct 26 04:20	5°  ℳ06'39	6.40714 AU	retrograde	5983 Aug 18 22:13	2°  X14'15	
morning rise	5977 Nov 07 21:33	7°  ℳ51'54			5983 Sep 26 05:20	30°  R Y	
	5977 Dec 12 10:40	15°  ℳ		opposition	5983 Oct 18 02:17	27°  Y17'44	-1°14'37
retrograde	5978 Mar 09 05:49	24°  ℳ52'02		min. Earth dist.	5983 Oct 18 16:05	27°  Y13'12	4.00863 AU
opposition	5978 May 08 18:09	19°  ℳ55'05	1°19'58	direct	5983 Dec 16 11:14	22°  Y22'50	
min. Earth dist.	5978 May 08 18:41	19°  ℳ54'55	4.45247 AU		5984 Feb 26 06:23	0°  X	
	5978 Jun 30 21:37	15°  Rℳ		evening set	5984 Apr 20 10:52	12°  X01'14	
direct	5978 Jul 09 16:30	14°  ℳ52'53			5984 May 02 17:55	15°  X	
	5978 Jul 18 12:41	15°  ℳ					
	5978 Nov 02 01:46	0°  X		conjunction	5984 May 03 11:41	15°  X10'48	-0°54'11
evening set	5978 Nov 12 17:56	2°  X15'14		minimum elong	5984 May 03 11:41	15°  X10'47	0°54'13
				max. Earth dist.	5984 May 03 08:07	15°  X08'38	5.95630 AU
conjunction	5978 Nov 25 20:22	5°  X03'37	0°53'47	morning rise	5984 May 16 14:55	18°  X21'47	
minimum elong	5978 Nov 25 20:23	5°  X03'38	0°53'49		5984 Jul 07 10:58	0°  II	
max. Earth dist.	5978 Nov 25 04:18	4°  X54'59	6.47863 AU	retrograde	5984 Sep 25 10:53	8°  II59'57	
morning rise	5978 Dec 08 20:18	7°  X50'49		opposition	5984 Nov 24 05:09	3°  II59'48	-1°20'17
retrograde	5979 Apr 08 00:56	24°  X28'50		min. Earth dist.	5984 Nov 23 17:46	4°  II03'36	3.92656 AU
opposition	5979 Jun 07 19:40	19°  X34'49	1°10'42		5984 Dec 29 08:11	30°  R X	
min. Earth dist.	5979 Jun 08 15:42	19°  X28'23	4.48503 AU	direct	5985 Jan 21 10:30	29°  X05'49	
direct	5979 Aug 09 11:41	14°  X32'49			5985 Feb 13 11:38	0°  II	
	5979 Dec 04 12:38	0°  X		evening set	5985 May 27 16:45	19°  II04'20	
evening set	5979 Dec 13 05:22	1°  X51'00					
max. Earth dist.	5979 Dec 24 10:14	4°  X15'54	6.46957 AU	conjunction	5985 Jun 10 01:26	22°  II19'13	-0°46'48
				minimum elong	5985 Jun 10 01:27	22°  II19'14	0°46'49
conjunction	5979 Dec 26 02:50	4°  X37'51	0°40'31	max. Earth dist.	5985 Jun 11 10:54	22°  II39'36	5.92216 AU

morning rise	5985 Jun 23 12:47	25° Π 35'32	direct	5991 Aug 13 17:03	18° X 49'41	
	5985 Jul 12 02:02	0° \mathfrak{D}		5991 Nov 17 18:28	0° \mathfrak{Z}	
retrograde	5985 Nov 02 19:22	16° \mathfrak{D} 22'04	evening set	5991 Dec 17 11:36	6° \mathfrak{Z} 09'44	
min. Earth dist.	5985 Dec 31 00:44	11° \mathfrak{D} 28'56 3.94528 AU	max. Earth dist.	5991 Dec 28 14:56	8° \mathfrak{Z} 34'09	6.45986 AU
opposition	5986 Jan 01 07:02	11° \mathfrak{D} 18'38 -0°53'06				
direct	5986 Feb 28 04:16	6° \mathfrak{D} 23'24	conjunction	5991 Dec 30 08:38	8° \mathfrak{Z} 56'46	0°37'37
evening set	5986 Jul 04 14:43	26° \mathfrak{D} 08'21	minimum elong	5991 Dec 30 08:39	8° \mathfrak{Z} 56'47	0°37'39
			morning rise	5992 Jan 12 03:18	11° \mathfrak{Z} 42'48	
conjunction	5986 Jul 18 05:49	29° \mathfrak{D} 22'59 -0°20'41	retrograde	5992 May 11 21:03	28° \mathfrak{Z} 33'07	
minimum elong	5986 Jul 18 05:50	29° \mathfrak{D} 23'00 0°20'43	opposition	5992 Jul 11 19:14	23° \mathfrak{Z} 40'49	0°37'51
	5986 Jul 20 19:58	0° Ω	min. Earth dist.	5992 Jul 13 06:25	23° \mathfrak{Z} 29'36	4.42083 AU
max. Earth dist.	5986 Jul 20 14:30	29° \mathfrak{D} 56'45 5.99118 AU	direct	5992 Sep 12 11:01	18° \mathfrak{Z} 39'58	
morning rise	5986 Jul 31 23:07	2° Ω 38'31		5992 Dec 17 05:57	0° \approx	
	5986 Sep 26 23:54	15° Ω	evening set	5993 Jan 15 23:58	6° \approx 18'50	
retrograde	5986 Dec 09 02:57	22° Ω 40'03	max. Earth dist.	5993 Jan 26 12:09	8° \approx 38'24	6.36429 AU
min. Earth dist.	5987 Feb 05 02:19	17° Ω 48'23 4.05634 AU				
opposition	5987 Feb 06 16:29	17° Ω 35'23 -0°05'53	conjunction	5993 Jan 28 18:05	9° \approx 08'22	0°12'08
	5987 Feb 26 18:41	15° $\mathfrak{R}\Omega$	minimum elong	5993 Jan 28 18:06	9° \approx 08'22	0°12'09
asc. node	5987 Mar 25 19:01	12° Ω 50'39	behind sun begin	5993 Jan 28 12:40	9° \approx 05'22	
direct	5987 Apr 06 02:35	12° Ω 37'30	behind sun end	5993 Jan 28 23:32	9° \approx 11'22	
	5987 May 14 14:20	15° Ω	morning rise	5993 Feb 10 10:50	11° \approx 57'24	
	5987 Aug 03 01:56	0° \mathfrak{P}		5993 Feb 24 09:05	15° \approx	
evening set	5987 Aug 10 15:39	1° \mathfrak{P} 43'24	retrograde	5993 Jun 13 05:42	29° \approx 28'58	
			desc. node	5993 Jul 09 02:17	28° \approx 27'32	
conjunction	5987 Aug 24 08:23	4° \mathfrak{P} 52'10 0°12'27	opposition	5993 Aug 13 02:06	24° \approx 36'26	-0°03'56
minimum elong	5987 Aug 24 08:22	4° \mathfrak{P} 52'09 0°12'26	min. Earth dist.	5993 Aug 14 16:34	24° \approx 24'08	4.29492 AU
behind sun begin	5987 Aug 24 03:02	4° \mathfrak{P} 49'06	direct	5993 Oct 14 00:27	19° \approx 37'15	
behind sun end	5987 Aug 24 13:41	4° \mathfrak{P} 55'12		5994 Jan 11 06:16	0° \mathfrak{H}	
max. Earth dist.	5987 Aug 26 16:01	5° \mathfrak{P} 24'09 6.13328 AU	evening set	5994 Feb 16 13:02	7° \mathfrak{H} 52'22	
morning rise	5987 Sep 07 01:52	8° \mathfrak{P} 00'56	max. Earth dist.	5994 Feb 27 05:30	10° \mathfrak{H} 19'09	6.21756 AU
retrograde	5988 Jan 11 20:55	26° \mathfrak{P} 50'42				
min. Earth dist.	5988 Mar 10 09:25	21° \mathfrak{P} 57'50 4.21401 AU	conjunction	5994 Mar 01 06:48	10° \mathfrak{H} 47'29	-0°17'55
opposition	5988 Mar 11 16:07	21° \mathfrak{P} 47'28 0°40'24	minimum elong	5994 Mar 01 06:47	10° \mathfrak{H} 47'28	0°17'54
direct	5988 May 10 07:47	16° \mathfrak{P} 47'07	morning rise	5994 Mar 13 24:00	13° \mathfrak{H} 42'39	
	5988 Aug 21 01:36	0° \mathfrak{L}		5994 Jun 08 21:51	0° \mathfrak{Y}	
evening set	5988 Sep 13 18:17	5° \mathfrak{L} 07'00	retrograde	5994 Jul 18 00:29	2° \mathfrak{Y} 19'04	
				5994 Aug 26 10:55	30° $\mathfrak{R}\mathfrak{H}$	
conjunction	5988 Sep 27 07:51	8° \mathfrak{L} 07'21 0°39'44	opposition	5994 Sep 16 13:54	27° \mathfrak{H} 24'57	-0°47'22
minimum elong	5988 Sep 27 07:49	8° \mathfrak{L} 07'20 0°39'44	min. Earth dist.	5994 Sep 17 20:08	27° \mathfrak{H} 15'10	4.13700 AU
max. Earth dist.	5988 Sep 28 21:39	8° \mathfrak{L} 28'20 6.29328 AU	direct	5994 Nov 16 05:57	22° \mathfrak{H} 28'07	
morning rise	5988 Oct 10 20:16	11° \mathfrak{L} 06'53		5995 Jan 27 22:31	0° \mathfrak{Y}	
retrograde	5989 Feb 11 07:30	28° \mathfrak{L} 48'50	evening set	5995 Mar 21 22:18	11° \mathfrak{Y} 28'58	
opposition	5989 Apr 12 11:48	23° \mathfrak{L} 48'52 1°10'52	max. Earth dist.	5995 Apr 02 11:05	14° \mathfrak{Y} 13'03	6.06165 AU
min. Earth dist.	5989 Apr 11 19:50	23° \mathfrak{L} 54'09 4.36308 AU				
direct	5989 Jun 12 10:25	18° \mathfrak{L} 47'08	conjunction	5995 Apr 03 18:13	14° \mathfrak{Y} 31'34	-0°43'33
	5989 Sep 15 12:26	0° \mathfrak{M}	minimum elong	5995 Apr 03 18:12	14° \mathfrak{Y} 31'33	0°43'33
evening set	5989 Oct 16 17:53	6° \mathfrak{M} 29'24	morning rise	5995 Apr 16 15:23	17° \mathfrak{Y} 35'04	
				5995 Jun 12 23:16	0° \mathfrak{B}	
conjunction	5989 Oct 30 01:26	9° \mathfrak{M} 22'06 0°53'50	retrograde	5995 Aug 24 04:12	7° \mathfrak{B} 24'20	
minimum elong	5989 Oct 30 01:25	9° \mathfrak{M} 22'06 0°53'52	opposition	5995 Oct 23 08:09	2° \mathfrak{B} 27'17	-1°17'15
max. Earth dist.	5989 Oct 30 09:22	9° \mathfrak{M} 26'24 6.42017 AU	min. Earth dist.	5995 Oct 23 18:02	2° \mathfrak{B} 24'02	3.99682 AU
morning rise	5989 Nov 12 07:04	12° \mathfrak{M} 13'42		5995 Nov 11 21:36	30° $\mathfrak{R}\mathfrak{Y}$	
	5989 Nov 25 07:55	15° \mathfrak{M}	direct	5995 Dec 21 13:25	27° \mathfrak{Y} 32'37	
retrograde	5990 Mar 13 11:05	29° \mathfrak{M} 09'35		5996 Jan 29 14:14	0° \mathfrak{B}	
opposition	5990 May 12 23:03	24° \mathfrak{M} 13'09 1°19'53		5996 Apr 16 05:25	15° \mathfrak{B}	
min. Earth dist.	5990 May 13 03:22	24° \mathfrak{M} 11'45 4.46011 AU	evening set	5996 Apr 25 12:19	17° \mathfrak{B} 13'35	
direct	5990 Jul 14 01:09	19° \mathfrak{M} 10'57				
	5990 Oct 16 04:49	0° X	conjunction	5996 May 08 14:09	20° \mathfrak{B} 23'51	-0°54'27
evening set	5990 Nov 17 01:08	6° X 32'12	minimum elong	5996 May 08 14:09	20° \mathfrak{B} 23'51	0°54'29
max. Earth dist.	5990 Nov 29 06:48	9° X 09'30 6.48024 AU	max. Earth dist.	5996 May 08 17:09	20° \mathfrak{B} 25'40	5.95047 AU
			morning rise	5996 May 21 18:12	23° \mathfrak{B} 35'31	
conjunction	5990 Nov 30 02:53	9° X 20'17 0°52'42		5996 Jun 18 00:48	0° \mathfrak{H}	
minimum elong	5990 Nov 30 02:53	9° X 20'17 0°52'44	retrograde	5996 Sep 30 19:02	14° \mathfrak{H} 16'03	
morning rise	5990 Dec 13 02:06	12° X 07'09	opposition	5996 Nov 29 11:34	9° \mathfrak{H} 15'24	-1°18'17
retrograde	5991 Apr 12 05:53	28° X 45'16	min. Earth dist.	5996 Nov 28 22:05	9° \mathfrak{H} 19'56	3.92752 AU
opposition	5991 Jun 12 01:25	23° X 51'33 1°07'48	direct	5997 Jan 26 15:39	4° \mathfrak{H} 21'21	
min. Earth dist.	5991 Jun 12 23:07	23° X 44'35 4.48080 AU	evening set	5997 Jun 01 20:48	24° \mathfrak{H} 18'10	

conjunction	5997 Jun 15 06:21	27° Π 33'07	-0°44'06	minimum elong	6002 Dec 04 08:29	13° \mathbb{A} 35'08	0°51'21
minimum elong	5997 Jun 15 06:22	27° Π 33'08	0°44'09	morning rise	6002 Dec 17 07:03	16° \mathbb{A} 21'46	
max. Earth dist.	5997 Jun 16 19:01	27° Π 55'23	5.92959 AU		6003 Mar 02 06:45	0° \mathbb{B}	
	5997 Jun 25 08:41	0° \mathbb{C}		retrograde	6003 Apr 16 12:09	3° \mathbb{B} 00'21	
morning rise	5997 Jun 28 18:47	0° \mathbb{C} 49'32			6003 Jun 01 04:09	30° \mathbb{R} \mathbb{A}	
retrograde	5997 Nov 07 19:43	21° \mathbb{C} 31'10		opposition	6003 Jun 16 07:02	28° \mathbb{A} 06'55	1°04'30
min. Earth dist.	5998 Jan 04 23:49	16° \mathbb{C} 38'32	3.95847 AU	min. Earth dist.	6003 Jun 17 07:27	27° \mathbb{A} 59'05	4.47573 AU
opposition	5998 Jan 06 08:24	16° \mathbb{C} 27'28	-0°47'22	direct	6003 Aug 18 00:25	23° \mathbb{A} 05'08	
direct	5998 Mar 05 05:39	11° \mathbb{C} 31'54			6003 Oct 29 20:36	0° \mathbb{B}	
	5998 Jul 04 14:42	0° \mathbb{Q}		evening set	6003 Dec 21 17:19	10° \mathbb{B} 26'52	
evening set	5998 Jul 09 16:43	1° \mathbb{Q} 11'45		max. Earth dist.	6004 Jan 01 17:37	12° \mathbb{B} 50'01	6.45030 AU
conjunction	5998 Jul 23 08:15	4° \mathbb{Q} 25'45	-0°16'18	conjunction	6004 Jan 03 13:52	13° \mathbb{B} 14'04	0°34'32
minimum elong	5998 Jul 23 08:16	4° \mathbb{Q} 25'46	0°16'19	minimum elong	6004 Jan 03 13:53	13° \mathbb{B} 14'04	0°34'33
max. Earth dist.	5998 Jul 25 16:23	4° \mathbb{Q} 59'02	6.00872 AU	morning rise	6004 Jan 16 08:11	16° \mathbb{B} 00'19	
morning rise	5998 Aug 06 01:55	7° \mathbb{Q} 40'35			6004 Apr 01 19:46	0° \approx	
	5998 Sep 07 09:09	15° \mathbb{Q}		retrograde	6004 May 16 06:10	2° \approx 54'36	
retrograde	5998 Dec 13 20:10	27° \mathbb{Q} 33'02			6004 Jun 30 07:58	30° \mathbb{R} \mathbb{B}	
asc. node	5999 Feb 04 09:59	23° \mathbb{Q} 25'20		opposition	6004 Jul 16 04:46	28° \mathbb{B} 02'16	0°32'29
min. Earth dist.	5999 Feb 09 21:19	22° \mathbb{Q} 40'57	4.07616 AU	min. Earth dist.	6004 Jul 17 16:08	27° \mathbb{B} 50'58	4.40725 AU
opposition	5999 Feb 11 10:09	22° \mathbb{Q} 28'25	0°00'52	direct	6004 Sep 16 18:17	23° \mathbb{B} 01'33	
direct	5999 Apr 11 00:34	17° \mathbb{Q} 30'07			6004 Nov 28 05:42	0° \approx	
	5999 Jul 17 03:39	0° \mathbb{P}		evening set	6005 Jan 20 07:28	10° \approx 44'09	
evening set	5999 Aug 15 12:22	6° \mathbb{P} 30'00		max. Earth dist.	6005 Jan 30 20:50	13° \approx 04'52	6.34752 AU
conjunction	5999 Aug 29 05:05	9° \mathbb{P} 37'48	0°16'41	conjunction	6005 Feb 02 01:30	13° \approx 34'14	0°08'02
minimum elong	5999 Aug 29 05:04	9° \mathbb{P} 37'47	0°16'41	minimum elong	6005 Feb 02 01:30	13° \approx 34'14	0°08'03
max. Earth dist.	5999 Aug 31 11:55	10° \mathbb{P} 09'10	6.15381 AU	behind sun begin	6005 Feb 01 18:23	13° \approx 30'18	
morning rise	5999 Sep 11 22:02	12° \mathbb{P} 45'25		behind sun end	6005 Feb 02 08:36	13° \approx 38'11	
	5999 Dec 17 05:20	0° \mathbb{U}			6005 Feb 08 11:11	15° \approx	
retrograde	6000 Jan 16 06:23	1° \mathbb{U} 25'57		morning rise	6005 Feb 14 17:58	16° \approx 23'51	
	6000 Feb 15 01:04	30° \mathbb{R} \mathbb{P}			6005 Apr 26 03:48	0° \mathbb{H}	
min. Earth dist.	6000 Mar 14 21:02	26° \mathbb{P} 33'01	4.23348 AU	desc. node	6005 May 18 21:44	2° \mathbb{H} 40'14	
opposition	6000 Mar 16 02:22	26° \mathbb{P} 23'09	0°45'39	retrograde	6005 Jun 17 22:07	4° \mathbb{H} 02'38	
direct	6000 May 14 21:07	21° \mathbb{P} 22'35			6005 Aug 11 04:29	30° \mathbb{R} \approx	
	6000 Aug 02 20:46	0° \mathbb{U}		opposition	6005 Aug 17 17:51	29° \approx 09'57	-0°10'12
evening set	6000 Sep 18 09:02	9° \mathbb{U} 37'38		min. Earth dist.	6005 Aug 19 08:12	28° \approx 57'41	4.27570 AU
				direct	6005 Oct 18 13:06	24° \approx 11'04	
conjunction	6000 Oct 01 21:47	12° \mathbb{U} 36'57	0°42'29		6005 Dec 21 20:39	0° \mathbb{H}	
minimum elong	6000 Oct 01 21:45	12° \mathbb{U} 36'56	0°42'29	evening set	6006 Feb 21 01:14	12° \mathbb{H} 31'30	
max. Earth dist.	6000 Oct 03 06:16	12° \mathbb{U} 54'55	6.31023 AU	max. Earth dist.	6006 Mar 03 17:54	14° \mathbb{H} 59'08	6.19715 AU
morning rise	6000 Oct 15 09:34	15° \mathbb{U} 35'28					
	6000 Dec 31 12:23	0° \mathbb{M}		conjunction	6006 Mar 05 18:56	15° \mathbb{H} 27'26	-0°21'58
retrograde	6001 Feb 15 12:59	3° \mathbb{M} 10'52		minimum elong	6006 Mar 05 18:55	15° \mathbb{H} 27'26	0°21'58
	6001 Apr 02 17:01	30° \mathbb{R} \mathbb{U}		morning rise	6006 Mar 18 12:36	18° \mathbb{H} 23'37	
opposition	6001 Apr 16 17:35	28° \mathbb{U} 11'22	1°13'21		6006 May 12 13:14	0° \mathbb{Y}	
min. Earth dist.	6001 Apr 16 04:55	28° \mathbb{U} 15'33	4.37652 AU	retrograde	6006 Jul 22 23:39	7° \mathbb{Y} 09'30	
direct	6001 Jun 16 20:28	23° \mathbb{U} 09'29		opposition	6006 Sep 21 12:43	2° \mathbb{Y} 14'59	-0°52'42
	6001 Aug 27 08:59	0° \mathbb{M}		min. Earth dist.	6006 Sep 22 16:25	2° \mathbb{Y} 06'00	4.11680 AU
evening set	6001 Oct 21 03:09	10° \mathbb{M} 48'59			6006 Oct 09 13:32	30° \mathbb{R} \mathbb{H}	
				direct	6006 Nov 21 00:03	27° \mathbb{H} 18'27	
conjunction	6001 Nov 03 10:08	13° \mathbb{M} 41'03	0°54'32		6007 Jan 01 17:15	0° \mathbb{Y}	
minimum elong	6001 Nov 03 10:07	13° \mathbb{M} 41'03	0°54'33	evening set	6007 Mar 26 17:00	16° \mathbb{Y} 25'09	
max. Earth dist.	6001 Nov 03 15:29	13° \mathbb{M} 43'57	6.42928 AU	max. Earth dist.	6007 Apr 07 11:28	19° \mathbb{Y} 13'11	6.04353 AU
	6001 Nov 09 12:07	15° \mathbb{M}					
morning rise	6001 Nov 16 14:46	16° \mathbb{M} 31'56		conjunction	6007 Apr 08 13:39	19° \mathbb{Y} 28'49	-0°46'08
	6002 Jan 28 10:45	0° \mathbb{A}		minimum elong	6007 Apr 08 13:38	19° \mathbb{Y} 28'48	0°46'09
retrograde	6002 Mar 17 13:29	3° \mathbb{A} 24'46		morning rise	6007 Apr 21 11:25	22° \mathbb{Y} 33'25	
	6002 May 05 05:29	30° \mathbb{R} \mathbb{M}			6007 May 23 23:07	0° \mathbb{B}	
opposition	6002 May 17 03:12	28° \mathbb{M} 28'44	1°19'22	retrograde	6007 Aug 29 11:50	12° \mathbb{B} 31'26	
min. Earth dist.	6002 May 17 08:55	28° \mathbb{M} 26'53	4.46462 AU	opposition	6007 Oct 28 13:00	7° \mathbb{B} 33'59	-1°19'20
direct	6002 Jul 18 06:22	23° \mathbb{M} 26'35		min. Earth dist.	6007 Oct 28 20:45	7° \mathbb{B} 31'25	3.98260 AU
	6002 Sep 26 23:35	0° \mathbb{A}		direct	6007 Dec 26 14:45	2° \mathbb{B} 39'31	
evening set	6002 Nov 21 07:31	10° \mathbb{A} 47'19			6008 Mar 29 20:25	15° \mathbb{B}	
max. Earth dist.	6002 Dec 03 08:54	13° \mathbb{A} 22'27	6.47992 AU	evening set	6008 Apr 30 13:46	22° \mathbb{B} 24'24	
conjunction	6002 Dec 04 08:28	13° \mathbb{A} 35'08	0°51'19	conjunction	6008 May 13 16:31	25° \mathbb{B} 35'33	-0°54'18

minimum elong	6008 May 13 16:31	25°♄35'33	0°54'19	minimum elong	6013 Nov 07 19:52	18°♍03'51	0°55'00
max. Earth dist.	6008 May 13 22:59	25°♄39'29	5.94140 AU	max. Earth dist.	6013 Nov 07 20:24	18°♍04'08	6.44353 AU
morning rise	6008 May 26 21:52	28°♄48'12		morning rise	6013 Nov 20 23:41	20°♍53'49	
	6008 May 31 21:05	0°♂			6014 Jan 05 08:19	0°♄	
retrograde	6008 Oct 06 01:44	19°♂32'28		retrograde	6014 Mar 21 17:45	7°♄41'52	
opposition	6008 Dec 04 18:05	14°♂31'22	-1°15'43	opposition	6014 May 21 07:57	2°♄46'14	1°18'28
min. Earth dist.	6008 Dec 04 00:47	14°♂37'11	3.92487 AU	min. Earth dist.	6014 May 21 16:48	2°♄43'22	4.47485 AU
direct	6009 Jan 31 18:35	9°♂37'14			6014 Jun 13 01:03	30°♍	
evening set	6009 Jun 07 02:11	29°♂34'10		direct	6014 Jul 22 15:15	27°♍44'03	
	6009 Jun 08 21:02	0°♄			6014 Aug 31 12:31	0°♄	
conjunction	6009 Jun 20 12:46	2°♄49'25	-0°41'03	evening set	6014 Nov 25 13:11	15°♄02'17	
minimum elong	6009 Jun 20 12:48	2°♄49'26	0°41'05	max. Earth dist.	6014 Dec 07 11:53	17°♄35'50	6.48536 AU
max. Earth dist.	6009 Jun 22 04:35	3°♄13'34	5.93354 AU	conjunction	6014 Dec 08 13:31	17°♄49'36	0°49'44
morning rise	6009 Jul 04 02:11	6°♄06'05		minimum elong	6014 Dec 08 13:32	17°♄49'37	0°49'47
retrograde	6009 Nov 12 23:23	26°♄44'22		morning rise	6014 Dec 21 11:11	20°♄35'43	
min. Earth dist.	6010 Jan 10 02:02	21°♄51'45	3.96842 AU		6015 Feb 06 17:34	0°♄	
opposition	6010 Jan 11 11:23	21°♄40'23	-0°41'11	retrograde	6015 Apr 20 13:59	7°♄13'04	
direct	6010 Mar 10 10:37	16°♄44'29		opposition	6015 Jun 20 11:21	2°♄19'48	1°01'00
	6010 Jun 17 05:01	0°♌		min. Earth dist.	6015 Jun 21 12:46	2°♄11'40	4.47606 AU
evening set	6010 Jul 14 21:28	6°♌20'43			6015 Jul 09 10:08	30°♍♄	
conjunction	6010 Jul 28 13:40	9°♌34'18	-0°11'41	direct	6015 Aug 22 04:47	27°♄18'07	
minimum elong	6010 Jul 28 13:40	9°♌34'18	0°11'43		6015 Oct 05 00:53	0°♄	
behind sun begin	6010 Jul 28 07:50	9°♌30'52		evening set	6015 Dec 25 20:43	14°♄39'46	
behind sun end	6010 Jul 28 19:31	9°♌37'44		max. Earth dist.	6016 Jan 05 18:37	17°♄01'50	6.44534 AU
max. Earth dist.	6010 Jul 31 00:11	10°♌08'51	6.02379 AU	conjunction	6016 Jan 07 16:38	17°♄26'54	0°31'23
morning rise	6010 Aug 11 07:32	12°♌48'31		minimum elong	6016 Jan 07 16:40	17°♄26'55	0°31'24
	6010 Aug 20 17:57	15°♌		morning rise	6016 Jan 20 10:29	20°♄13'10	
	6010 Nov 08 10:04	0°♍			6016 Mar 09 01:10	0°♍	
asc. node	6010 Dec 15 07:25	2°♍31'26		retrograde	6016 May 20 13:19	7°♍10'12	
retrograde	6010 Dec 18 16:37	2°♍32'34		opposition	6016 Jul 20 11:46	2°♍17'54	0°27'09
	6011 Jan 27 18:01	30°♍♌		min. Earth dist.	6016 Jul 22 01:20	2°♍05'55	4.39696 AU
min. Earth dist.	6011 Feb 14 17:27	27°♌40'38	4.09470 AU		6016 Aug 08 05:06	30°♍♄	
opposition	6011 Feb 16 06:13	27°♌28'08	0°07'46	direct	6016 Sep 21 01:26	27°♄17'19	
direct	6011 Apr 15 22:55	22°♌29'34			6016 Nov 03 12:49	0°♍	
	6011 Jun 27 06:34	0°♍		evening set	6017 Jan 24 11:57	15°♍02'41	
evening set	6011 Aug 20 12:28	11°♍24'03			6017 Jan 24 07:06	15°♍	
conjunction	6011 Sep 03 04:46	14°♍30'48	0°20'57	max. Earth dist.	6017 Feb 03 22:47	17°♍22'31	6.33249 AU
minimum elong	6011 Sep 03 04:44	14°♍30'47	0°20'57	conjunction	6017 Feb 06 05:42	17°♍53'15	0°04'03
max. Earth dist.	6011 Sep 05 08:36	15°♍00'19	6.17420 AU	minimum elong	6017 Feb 06 05:41	17°♍53'15	0°04'06
morning rise	6011 Sep 16 21:25	17°♍37'20		behind sun begin	6017 Feb 05 21:50	17°♍48'52	
	6011 Nov 16 11:31	0°♌		behind sun end	6017 Feb 06 13:33	17°♍57'37	
retrograde	6012 Jan 20 17:58	6°♌08'40		morning rise	6017 Feb 18 22:12	20°♍43'26	
min. Earth dist.	6012 Mar 19 11:55	1°♌15'32	4.25413 AU	desc. node	6017 Mar 30 22:45	29°♍11'09	
opposition	6012 Mar 20 15:34	1°♌06'15	0°50'46		6017 Apr 04 05:01	0°♍	
	6012 Mar 28 22:40	30°♍♍		retrograde	6017 Jun 22 10:06	8°♍29'06	
direct	6012 May 19 14:37	26°♍05'29		opposition	6017 Aug 22 06:06	3°♍36'10	-0°16'11
	6012 Jul 10 05:47	0°♌		min. Earth dist.	6017 Aug 23 19:43	3°♍24'06	4.25667 AU
evening set	6012 Sep 23 02:11	14°♌15'08			6017 Sep 22 17:59	30°♍♍	
conjunction	6012 Oct 06 14:20	17°♌13'22	0°45'05	direct	6017 Oct 22 21:34	28°♍37'26	
minimum elong	6012 Oct 06 14:18	17°♌13'21	0°45'06		6017 Nov 21 23:27	0°♍	
max. Earth dist.	6012 Oct 07 21:08	17°♌30'20	6.32992 AU	evening set	6018 Feb 25 10:15	17°♍03'28	
morning rise	6012 Oct 20 00:59	20°♌10'39		max. Earth dist.	6018 Mar 08 05:26	19°♍33'13	6.17562 AU
	6012 Dec 07 06:40	0°♍		conjunction	6018 Mar 10 04:15	20°♍00'23	-0°25'45
retrograde	6013 Feb 19 19:02	7°♍38'26		minimum elong	6018 Mar 10 04:14	20°♍00'22	0°25'45
opposition	6013 Apr 21 01:20	2°♍39'28	1°15'31	morning rise	6018 Mar 22 22:09	22°♍57'35	
min. Earth dist.	6013 Apr 20 14:15	2°♍43'07	4.39409 AU		6018 Apr 23 12:09	0°♍	
	6013 May 12 08:51	30°♍♌		retrograde	6018 Jul 27 22:01	11°♍53'33	
direct	6013 Jun 21 07:50	27°♌37'37		opposition	6018 Sep 26 08:42	6°♍58'44	-0°57'33
	6013 Jul 31 17:34	0°♍		min. Earth dist.	6018 Sep 27 11:50	6°♍49'55	4.09427 AU
	6013 Oct 24 14:14	15°♍		direct	6018 Nov 25 16:08	2°♍02'26	
evening set	6013 Oct 25 14:00	15°♍12'43		evening set	6019 Mar 31 09:33	21°♍16'06	
conjunction	6013 Nov 07 19:52	18°♍03'51	0°54'59	max. Earth dist.	6019 Apr 12 06:15	24°♍06'18	6.02195 AU

conjunction	6019 Apr 13 06:49	24° Υ 21'01	-0°48'21	minimum elong	6024 Oct 11 07:24	21° Ω 50'16	0°47'26
minimum elong	6019 Apr 13 06:48	24° Υ 21'01	0°48'22	max. Earth dist.	6024 Oct 12 09:52	22° Ω 04'47	6.35046 AU
morning rise	6019 Apr 26 05:40	27° Υ 27'02		morning rise	6024 Oct 24 17:14	24° Ω 46'20	
	6019 May 07 00:23	0° \mathcal{B}			6024 Nov 18 08:43	0° \mathcal{M}	
	6019 Jul 24 18:22	15° \mathcal{B}		retrograde	6025 Feb 24 01:33	12° \mathcal{M} 06'19	
retrograde	6019 Sep 03 16:04	17° \mathcal{B} 35'15		opposition	6025 Apr 25 09:43	7° \mathcal{M} 07'46	1°17'13
	6019 Oct 14 21:16	15° $\mathcal{R}\mathcal{B}$		min. Earth dist.	6025 Apr 25 01:15	7° \mathcal{M} 10'33	4.41134 AU
opposition	6019 Nov 02 16:01	12° \mathcal{B} 37'19	-1°20'50	direct	6025 Jun 25 20:38	2° \mathcal{M} 05'45	
min. Earth dist.	6019 Nov 02 20:01	12° \mathcal{B} 35'59	3.96423 AU		6025 Oct 07 23:56	15° \mathcal{M}	
direct	6019 Dec 31 12:00	7° \mathcal{B} 42'57		evening set	6025 Oct 30 00:59	19° \mathcal{M} 36'40	
	6020 Mar 10 01:10	15° \mathcal{B}					
evening set	6020 May 05 14:48	27° \mathcal{B} 33'41		conjunction	6025 Nov 12 06:07	22° \mathcal{M} 27'00	0°55'07
	6020 May 15 15:21	0° Π		minimum elong	6025 Nov 12 06:07	22° \mathcal{M} 26'59	0°55'08
				max. Earth dist.	6025 Nov 12 03:56	22° \mathcal{M} 25'49	6.45610 AU
conjunction	6020 May 18 18:45	0° Π 46'00	-0°53'44	morning rise	6025 Nov 25 08:48	25° \mathcal{M} 16'05	
minimum elong	6020 May 18 18:46	0° Π 46'01	0°53'45		6025 Dec 18 00:17	0° \mathcal{A}	
max. Earth dist.	6020 May 19 06:00	0° Π 52'52	5.92812 AU	retrograde	6026 Mar 25 21:26	12° \mathcal{A} 00'13	
morning rise	6020 Jun 01 01:18	3° Π 59'51		opposition	6026 May 25 13:48	7° \mathcal{A} 05'01	1°17'06
retrograde	6020 Oct 11 10:08	24° Π 49'26		min. Earth dist.	6026 May 26 00:49	7° \mathcal{A} 01'27	4.48190 AU
min. Earth dist.	6020 Dec 09 05:02	19° Π 54'23	3.91822 AU	direct	6026 Jul 26 23:24	2° \mathcal{A} 02'55	
opposition	6020 Dec 10 00:28	19° Π 47'50	-1°12'35	evening set	6026 Nov 29 20:13	19° \mathcal{A} 19'48	
direct	6021 Feb 05 23:34	14° Π 53'32					
	6021 May 22 19:24	0° \mathcal{E}		conjunction	6026 Dec 12 19:38	22° \mathcal{A} 06'46	0°47'50
evening set	6021 Jun 12 08:51	4° \mathcal{E} 52'11		minimum elong	6026 Dec 12 19:39	22° \mathcal{A} 06'47	0°47'52
				max. Earth dist.	6026 Dec 11 13:14	21° \mathcal{A} 50'26	6.48625 AU
conjunction	6021 Jun 25 20:42	8° \mathcal{E} 07'59	-0°37'40	morning rise	6026 Dec 25 16:45	24° \mathcal{A} 52'39	
minimum elong	6021 Jun 25 20:44	8° \mathcal{E} 08'00	0°37'41		6027 Jan 19 07:02	0° \mathcal{B}	
max. Earth dist.	6021 Jun 27 17:49	8° \mathcal{E} 35'18	5.93432 AU	retrograde	6027 Apr 24 21:13	11° \mathcal{B} 30'32	
morning rise	6021 Jul 09 11:08	11° \mathcal{E} 25'05		opposition	6027 Jun 24 18:14	6° \mathcal{B} 37'31	0°57'03
	6021 Oct 13 17:04	0° \mathcal{O}		min. Earth dist.	6027 Jun 25 22:47	6° \mathcal{B} 28'23	4.47071 AU
retrograde	6021 Nov 18 04:55	2° \mathcal{O} 00'37		direct	6027 Aug 26 13:17	1° \mathcal{B} 35'55	
	6021 Dec 23 11:15	30° $\mathcal{R}\mathcal{E}$		evening set	6027 Dec 30 02:56	18° \mathcal{B} 59'29	
min. Earth dist.	6022 Jan 15 04:15	27° \mathcal{E} 08'23	3.97652 AU	max. Earth dist.	6028 Jan 09 22:21	21° \mathcal{B} 20'35	6.43407 AU
opposition	6022 Jan 16 15:27	26° \mathcal{E} 56'24	-0°34'41				
direct	6022 Mar 15 14:54	22° \mathcal{E} 00'09		conjunction	6028 Jan 11 22:32	21° \mathcal{B} 46'54	0°27'55
	6022 May 28 04:26	0° \mathcal{O}		minimum elong	6028 Jan 11 22:33	21° \mathcal{B} 46'55	0°27'57
evening set	6022 Jul 20 04:15	11° \mathcal{O} 33'18		morning rise	6028 Jan 24 15:58	24° \mathcal{B} 33'29	
					6028 Feb 19 09:46	0° \mathcal{A}	
conjunction	6022 Aug 02 20:44	14° \mathcal{O} 46'22	-0°06'58	retrograde	6028 May 24 23:45	11° \mathcal{A} 35'34	
minimum elong	6022 Aug 02 20:45	14° \mathcal{O} 46'22	0°07'00	opposition	6028 Jul 24 22:58	6° \mathcal{A} 43'15	0°21'23
behind sun begin	6022 Aug 02 13:00	14° \mathcal{O} 41'50		min. Earth dist.	6028 Jul 26 12:32	6° \mathcal{A} 31'16	4.38043 AU
behind sun end	6022 Aug 03 04:30	14° \mathcal{O} 50'55		direct	6028 Sep 25 09:34	1° \mathcal{A} 42'55	
	6022 Aug 03 19:56	15° \mathcal{O}			6029 Jan 07 23:30	15° \mathcal{A}	
max. Earth dist.	6022 Aug 05 07:27	15° \mathcal{O} 20'54	6.03821 AU	evening set	6029 Jan 28 21:07	19° \mathcal{A} 33'15	
morning rise	6022 Aug 16 15:04	18° \mathcal{O} 00'01		desc. node	6029 Feb 07 07:22	21° \mathcal{A} 39'55	
	6022 Oct 11 15:10	0° \mathcal{M}		max. Earth dist.	6029 Feb 08 08:18	21° \mathcal{A} 53'57	6.31187 AU
asc. node	6022 Oct 24 16:16	2° \mathcal{M} 15'54					
retrograde	6022 Dec 23 12:19	7° \mathcal{M} 35'30		conjunction	6029 Feb 10 14:43	22° \mathcal{A} 24'33	-0°00'16
min. Earth dist.	6023 Feb 19 14:41	2° \mathcal{M} 43'40	4.11364 AU	minimum elong	6029 Feb 10 14:43	22° \mathcal{A} 24'33	0°00'15
opposition	6023 Feb 21 03:44	2° \mathcal{M} 31'04	0°14'38	behind sun begin	6029 Feb 10 06:49	22° \mathcal{A} 20'08	
	6023 Mar 12 16:04	30° $\mathcal{R}\mathcal{O}$		behind sun end	6029 Feb 10 22:38	22° \mathcal{A} 28'59	
direct	6023 Apr 20 23:43	27° \mathcal{O} 32'05		morning rise	6029 Feb 23 07:14	25° \mathcal{A} 15'36	
	6023 May 30 13:36	0° \mathcal{M}			6029 Mar 16 22:08	0° \mathcal{H}	
evening set	6023 Aug 25 13:57	16° \mathcal{M} 20'39		retrograde	6029 Jun 27 06:48	13° \mathcal{H} 10'24	
				opposition	6029 Aug 27 00:58	8° \mathcal{H} 17'20	-0°22'28
conjunction	6023 Sep 08 06:01	19° \mathcal{M} 26'17	0°25'06	min. Earth dist.	6029 Aug 28 14:57	8° \mathcal{H} 05'09	4.23312 AU
minimum elong	6023 Sep 08 05:59	19° \mathcal{M} 26'16	0°25'05	direct	6029 Oct 27 13:20	3° \mathcal{H} 18'57	
max. Earth dist.	6023 Sep 10 09:02	19° \mathcal{M} 55'12	6.19598 AU	evening set	6030 Mar 02 01:41	21° \mathcal{H} 52'04	
morning rise	6023 Sep 21 21:54	22° \mathcal{M} 31'30		max. Earth dist.	6030 Mar 12 22:04	24° \mathcal{H} 23'22	6.15109 AU
	6023 Oct 26 14:11	0° Ω					
retrograde	6024 Jan 25 07:18	10° Ω 52'48		conjunction	6030 Mar 14 19:56	24° \mathcal{H} 50'06	-0°29'37
min. Earth dist.	6024 Mar 24 03:50	5° Ω 59'24	4.27635 AU	minimum elong	6030 Mar 14 19:55	24° \mathcal{H} 50'06	0°29'37
opposition	6024 Mar 25 05:38	5° Ω 50'46	0°55'33	morning rise	6030 Mar 27 14:26	27° \mathcal{H} 48'35	
direct	6024 May 24 09:44	0° Ω 49'45			6030 Apr 06 02:32	0° Υ	
evening set	6024 Sep 27 20:14	18° Ω 53'17		retrograde	6030 Aug 02 02:00	16° Υ 55'53	
				opposition	6030 Oct 01 11:57	12° Υ 00'45	-1°02'20
conjunction	6024 Oct 11 07:25	21° Ω 50'17	0°47'24	min. Earth dist.	6030 Oct 02 11:34	11° Υ 53'04	4.07094 AU

direct	6030 Nov 30 13:10	7° Υ 04'48	direct	6036 May 29 01:00	5° Ω 26'32	
evening set	6031 Apr 05 09:26	26° Υ 25'40	evening set	6036 Oct 02 10:23	23° Ω 23'39	
conjunction	6031 Apr 18 07:31	29° Υ 31'51 -0°50'21	conjunction	6036 Oct 15 20:44	26° Ω 19'27	0°49'22
minimum elong	6031 Apr 18 07:30	29° Υ 31'51 0°50'22	minimum elong	6036 Oct 15 20:43	26° Ω 19'26	0°49'23
max. Earth dist.	6031 Apr 17 12:09	29° Υ 20'12 6.00210 AU	max. Earth dist.	6036 Oct 16 19:00	26° Ω 31'37	6.37094 AU
	6031 Apr 20 06:15	0° \mathcal{B}	morning rise	6036 Oct 29 05:25	29° Ω 14'13	
morning rise	6031 May 01 07:14	2° \mathcal{B} 39'11		6036 Nov 01 18:09	0° \mathcal{M}	
	6031 Jun 26 08:35	15° \mathcal{B}		6037 Jan 28 15:19	15° \mathcal{M}	
retrograde	6031 Sep 09 04:26	22° \mathcal{B} 56'45	retrograde	6037 Feb 28 06:13	16° \mathcal{M} 26'59	
opposition	6031 Nov 08 01:57	17° \mathcal{B} 58'20 -1°21'45		6037 Mar 30 17:04	15° $\mathcal{R}\mathcal{M}$	
min. Earth dist.	6031 Nov 08 03:03	17° \mathcal{B} 57'58 3.95012 AU	opposition	6037 Apr 29 15:18	11° \mathcal{M} 28'57	1°18'27
	6031 Dec 02 04:43	15° $\mathcal{R}\mathcal{B}$	min. Earth dist.	6037 Apr 29 10:16	11° \mathcal{M} 30'36	4.42683 AU
direct	6032 Jan 05 18:21	13° \mathcal{B} 04'09	direct	6037 Jun 30 06:58	6° \mathcal{M} 26'51	
	6032 Feb 08 22:29	15° \mathcal{B}		6037 Sep 20 00:59	15° \mathcal{M}	
	6032 Apr 28 12:32	0° \mathcal{I}	evening set	6037 Nov 03 09:05	23° \mathcal{M} 54'16	
evening set	6032 May 10 21:59	2° \mathcal{I} 58'45				
conjunction	6032 May 24 03:10	6° \mathcal{I} 11'58 -0°52'42	conjunction	6037 Nov 16 13:16	26° \mathcal{M} 43'53	0°54'56
minimum elong	6032 May 24 03:11	6° \mathcal{I} 11'59 0°52'44	minimum elong	6037 Nov 16 13:16	26° \mathcal{M} 43'53	0°54'58
max. Earth dist.	6032 May 24 20:38	6° \mathcal{I} 22'38 5.92139 AU	max. Earth dist.	6037 Nov 16 05:34	26° \mathcal{M} 39'44	6.46535 AU
morning rise	6032 Jun 06 10:56	9° \mathcal{I} 26'43	morning rise	6037 Nov 29 15:12	29° \mathcal{M} 32'17	
	6032 Oct 03 08:45	0° \mathcal{E}		6037 Dec 01 19:10	0° \mathcal{J}	
retrograde	6032 Oct 16 22:25	0° \mathcal{E} 18'10	retrograde	6038 Mar 30 00:33	16° \mathcal{J} 13'48	
	6032 Oct 30 09:31	30° $\mathcal{R}\mathcal{I}$	opposition	6038 May 29 17:45	11° \mathcal{J} 18'56	1°15'24
opposition	6032 Dec 15 11:06	25° \mathcal{I} 16'07 -1°08'41	min. Earth dist.	6038 May 30 07:53	11° \mathcal{J} 14'22	4.48463 AU
min. Earth dist.	6032 Dec 14 12:11	25° \mathcal{I} 23'51 3.92014 AU	direct	6038 Jul 31 05:35	6° \mathcal{J} 16'47	
direct	6033 Feb 11 08:24	20° \mathcal{I} 21'44	evening set	6038 Dec 04 01:20	23° \mathcal{J} 33'43	
	6033 May 03 09:30	0° \mathcal{E}	max. Earth dist.	6038 Dec 15 15:40	26° \mathcal{J} 03'03	6.48226 AU
evening set	6033 Jun 17 18:50	10° \mathcal{E} 18'27				
conjunction	6033 Jul 01 07:25	13° \mathcal{E} 34'10 -0°33'54	conjunction	6038 Dec 17 00:18	26° \mathcal{J} 20'37	0°45'44
minimum elong	6033 Jul 01 07:27	13° \mathcal{E} 34'11 0°33'55	minimum elong	6038 Dec 17 00:19	26° \mathcal{J} 20'38	0°45'45
max. Earth dist.	6033 Jul 03 07:12	14° \mathcal{E} 03'00 5.94453 AU	morning rise	6038 Dec 29 20:39	29° \mathcal{J} 06'24	
morning rise	6033 Jul 14 22:51	16° \mathcal{E} 51'09		6039 Jan 03 01:10	0° \mathcal{Z}	
	6033 Sep 13 05:49	0° \mathcal{Q}	retrograde	6039 Apr 29 02:24	15° \mathcal{Z} 46'25	
retrograde	6033 Nov 23 07:48	7° \mathcal{Q} 19'49	opposition	6039 Jun 29 00:38	10° \mathcal{Z} 53'36	0°52'52
min. Earth dist.	6034 Jan 20 06:58	2° \mathcal{Q} 27'56 3.99382 AU	min. Earth dist.	6039 Jun 30 06:37	10° \mathcal{Z} 44'02	4.46032 AU
opposition	6034 Jan 21 20:00	2° \mathcal{Q} 15'19 -0°27'51	direct	6039 Aug 30 18:55	5° \mathcal{Z} 52'10	
	6034 Feb 08 01:56	30° $\mathcal{R}\mathcal{E}$	evening set	6040 Jan 03 09:01	23° \mathcal{Z} 19'06	
direct	6034 Mar 20 21:12	27° \mathcal{E} 18'39	max. Earth dist.	6040 Jan 14 01:18	25° \mathcal{Z} 39'06	6.41795 AU
	6034 Apr 30 14:50	0° \mathcal{Q}	conjunction	6040 Jan 16 04:07	26° \mathcal{Z} 06'58	0°24'20
	6034 Jul 17 20:48	15° \mathcal{Q}	minimum elong	6040 Jan 16 04:08	26° \mathcal{Z} 06'58	0°24'23
evening set	6034 Jul 25 10:36	16° \mathcal{Q} 45'19	morning rise	6040 Jan 28 21:27	28° \mathcal{Z} 54'06	
				6040 Feb 02 22:46	0° \mathcal{X}	
conjunction	6034 Aug 08 03:26	19° \mathcal{Q} 57'26 -0°02'13		6040 May 03 08:52	15° \mathcal{X}	
minimum elong	6034 Aug 08 03:25	19° \mathcal{Q} 57'26 0°02'14	retrograde	6040 May 29 13:52	16° \mathcal{X} 02'56	
behind sun begin	6034 Aug 07 19:01	19° \mathcal{Q} 52'32		6040 Jun 24 18:40	15° $\mathcal{R}\mathcal{X}$	
behind sun end	6034 Aug 08 11:48	20° \mathcal{Q} 02'19	opposition	6040 Jul 29 11:37	11° \mathcal{X} 10'37	0°15'30
max. Earth dist.	6034 Aug 10 15:10	20° \mathcal{Q} 32'24 6.06095 AU	min. Earth dist.	6040 Jul 31 02:45	10° \mathcal{X} 58'07	4.35945 AU
morning rise	6034 Aug 21 21:30	23° \mathcal{Q} 09'54	direct	6040 Sep 29 20:38	6° \mathcal{X} 10'29	
asc. node	6034 Sep 03 02:18	25° \mathcal{Q} 57'50	desc. node	6040 Dec 17 21:38	14° \mathcal{X} 25'58	
	6034 Sep 21 09:11	0° \mathcal{M}		6040 Dec 20 22:26	15° \mathcal{X}	
retrograde	6034 Dec 28 07:18	12° \mathcal{M} 33'54	evening set	6041 Feb 02 07:39	24° \mathcal{X} 07'04	
min. Earth dist.	6035 Feb 24 11:37	7° \mathcal{M} 41'42 4.13913 AU	max. Earth dist.	6041 Feb 12 19:07	26° \mathcal{X} 28'41	6.28775 AU
opposition	6035 Feb 25 23:07	7° \mathcal{M} 29'39 0°21'15				
direct	6035 Apr 26 00:27	2° \mathcal{M} 30'18	conjunction	6041 Feb 15 01:20	26° \mathcal{X} 59'20	-0°04'34
evening set	6035 Aug 30 12:34	21° \mathcal{M} 10'58	minimum elong	6041 Feb 15 01:19	26° \mathcal{X} 59'20	0°04'34
			behind sun begin	6041 Feb 14 17:30	26° \mathcal{X} 54'56	
conjunction	6035 Sep 13 04:02	24° \mathcal{M} 15'12 0°28'58	behind sun end	6041 Feb 15 09:08	27° \mathcal{X} 03'44	
minimum elong	6035 Sep 13 04:00	24° \mathcal{M} 15'11 0°28'58	morning rise	6041 Feb 27 17:57	29° \mathcal{X} 51'24	
max. Earth dist.	6035 Sep 15 04:24	24° \mathcal{M} 42'26 6.22185 AU		6041 Feb 28 09:15	0° \mathcal{H}	
morning rise	6035 Sep 26 19:14	27° \mathcal{M} 18'57	retrograde	6041 Jul 02 03:57	17° \mathcal{H} 56'27	
	6035 Oct 08 22:35	0° \mathcal{Q}	opposition	6041 Aug 31 21:54	13° \mathcal{H} 03'12	-0°28'42
retrograde	6036 Jan 29 15:27	15° \mathcal{Q} 29'27	min. Earth dist.	6041 Sep 02 09:36	12° \mathcal{H} 51'43	4.20767 AU
opposition	6036 Mar 29 16:29	10° \mathcal{Q} 27'48 0°59'49	direct	6041 Nov 01 04:34	8° \mathcal{H} 05'11	
min. Earth dist.	6036 Mar 28 16:23	10° \mathcal{Q} 35'51 4.30044 AU	evening set	6042 Mar 06 19:37	26° \mathcal{H} 45'56	
			max. Earth dist.	6042 Mar 17 20:02	29° \mathcal{H} 20'26	6.12654 AU

conjunction	6042 Mar 19 14:12	29° H 45'09 -0°33'19	retrograde	6048 Feb 03 01:05	20° Ω 02'14	
minimum elong	6042 Mar 19 14:11	29° H 45'09 0°33'18	min. Earth dist.	6048 Apr 02 05:25	15° Ω 08'02	4.32110 AU
	6042 Mar 20 15:31	0° Υ	opposition	6048 Apr 03 02:04	15° Ω 01'09	1°03'42
morning rise	6042 Apr 01 09:14	2° Υ 44'55	direct	6048 Jun 02 16:13	9° Ω 59'43	
retrograde	6042 Aug 07 10:59	22° Υ 03'29	evening set	6048 Oct 06 23:40	27° Ω 51'53	
opposition	6042 Oct 06 17:53	17° Υ 07'56 -1°06'41		6048 Oct 16 19:32	0° \mathbb{M}	
min. Earth dist.	6042 Oct 07 15:02	17° Υ 01'01 4.04946 AU				
direct	6042 Dec 05 14:50	12° Υ 12'20	conjunction	6048 Oct 20 09:15	0° \mathbb{M} 46'41	0°51'03
	6043 Apr 03 12:42	0° B	minimum elong	6048 Oct 20 09:14	0° \mathbb{M} 46'41	0°51'04
evening set	6043 Apr 10 11:16	1° B 39'20	max. Earth dist.	6048 Oct 21 03:34	0° \mathbb{M} 56'40	6.38741 AU
			morning rise	6048 Nov 02 16:59	3° \mathbb{M} 40'25	
conjunction	6043 Apr 23 10:14	4° B 46'38 -0°51'57		6048 Dec 30 10:13	15° \mathbb{M}	
minimum elong	6043 Apr 23 10:13	4° B 46'38 0°51'58	retrograde	6049 Mar 04 09:50	20° \mathbb{M} 47'31	
max. Earth dist.	6043 Apr 22 20:25	4° B 38'18 5.98581 AU	opposition	6049 May 03 20:42	15° \mathbb{M} 49'59	1°19'16
morning rise	6043 May 06 10:57	7° B 55'10	min. Earth dist.	6049 May 03 17:51	15° \mathbb{M} 50'54	4.43830 AU
	6043 Jun 05 21:39	15° B		6049 May 10 06:12	15° R \mathbb{M}	
retrograde	6043 Sep 14 16:17	28° B 20'01	direct	6049 Jul 04 14:46	10° \mathbb{M} 47'50	
opposition	6043 Nov 13 12:44	23° B 21'06 -1°21'55		6049 Aug 28 18:14	15° \mathbb{M}	
min. Earth dist.	6043 Nov 13 09:36	23° B 22'09 3.94109 AU	evening set	6049 Nov 07 17:16	28° \mathbb{M} 13'07	
direct	6044 Jan 11 00:24	18° B 27'06		6049 Nov 16 00:57	0° Z	
	6044 Apr 10 05:03	0° \mathbb{I}				
evening set	6044 May 16 05:49	8° \mathbb{I} 23'22	conjunction	6049 Nov 20 20:43	1° Z 02'13	0°54'28
			minimum elong	6049 Nov 20 20:43	1° Z 02'13	0°54'30
conjunction	6044 May 29 11:54	11° \mathbb{I} 37'07 -0°51'13	max. Earth dist.	6049 Nov 20 09:22	0° Z 56'07	6.47105 AU
minimum elong	6044 May 29 11:55	11° \mathbb{I} 37'08 0°51'15	morning rise	6049 Dec 03 21:45	3° Z 50'06	
max. Earth dist.	6044 May 30 09:27	11° \mathbb{I} 50'17 5.92024 AU	retrograde	6050 Apr 03 05:20	20° Z 30'13	
morning rise	6044 Jun 11 20:55	14° \mathbb{I} 52'27	opposition	6050 Jun 02 22:56	15° Z 35'47	1°13'17
	6044 Aug 21 08:12	0° E	min. Earth dist.	6050 Jun 03 15:55	15° Z 30'19	4.48434 AU
retrograde	6044 Oct 22 06:41	5° E 43'06	direct	6050 Aug 04 12:48	10° Z 33'45	
opposition	6044 Dec 20 20:01	0° E 40'35 -1°04'11	evening set	6050 Dec 08 07:37	27° Z 51'30	
min. Earth dist.	6044 Dec 19 17:55	0° E 49'25 3.92697 AU		6050 Dec 18 06:39	0° Z	
	6044 Dec 25 20:22	30° R \mathbb{I}	max. Earth dist.	6050 Dec 19 16:45	0° Z 18'23	6.47587 AU
direct	6045 Feb 16 17:01	25° \mathbb{I} 45'56				
	6045 Apr 09 02:14	0° E	conjunction	6050 Dec 21 05:53	0° Z 38'25	0°43'20
evening set	6045 Jun 23 03:12	15° E 39'10	minimum elong	6050 Dec 21 05:54	0° Z 38'26	0°43'21
			morning rise	6051 Jan 03 01:51	3° Z 24'17	
conjunction	6045 Jul 06 16:45	18° E 54'36 -0°29'52	retrograde	6051 May 03 11:11	20° Z 07'17	
minimum elong	6045 Jul 06 16:46	18° E 54'37 0°29'55	opposition	6051 Jul 03 08:59	15° Z 14'39	0°48'18
max. Earth dist.	6045 Jul 08 20:26	19° E 25'41 5.95862 AU	min. Earth dist.	6051 Jul 04 16:54	15° Z 04'27	4.44838 AU
morning rise	6045 Jul 20 08:40	22° E 11'10	direct	6051 Sep 04 02:45	10° Z 13'20	
	6045 Aug 23 10:11	0° Ω	evening set	6052 Jan 07 16:37	27° Z 44'02	
retrograde	6045 Nov 28 09:58	12° Ω 31'38	max. Earth dist.	6052 Jan 18 08:48	0° \approx 04'29	6.40146 AU
min. Earth dist.	6046 Jan 25 09:03	7° Ω 39'35 4.01330 AU		6052 Jan 18 00:39	0° \approx	
opposition	6046 Jan 26 21:50	7° Ω 27'03 -0°20'55				
direct	6046 Mar 26 02:18	2° Ω 30'03	conjunction	6052 Jan 20 11:36	0° \approx 32'27	0°20'32
	6046 Jun 30 05:14	15° Ω	minimum elong	6052 Jan 20 11:37	0° \approx 32'27	0°20'34
asc. node	6046 Jul 13 17:02	17° Ω 58'19	morning rise	6052 Feb 02 04:33	3° \approx 20'08	
evening set	6046 Jul 30 14:23	21° Ω 49'59		6052 Apr 01 03:43	15° \approx	
			retrograde	6052 Jun 03 03:53	20° \approx 35'47	
conjunction	6046 Aug 13 07:15	25° Ω 01'04 0°02'36	opposition	6052 Aug 03 02:02	15° \approx 43'28	0°09'23
minimum elong	6046 Aug 13 07:14	25° Ω 01'03 0°02'35	min. Earth dist.	6052 Aug 04 16:37	15° \approx 31'10	4.33962 AU
behind sun begin	6046 Aug 12 22:51	24° Ω 56'12		6052 Aug 08 18:42	15° R \approx	
behind sun end	6046 Aug 13 15:36	25° Ω 05'54	direct	6052 Oct 04 07:20	10° \approx 43'41	
max. Earth dist.	6046 Aug 15 18:42	25° Ω 35'38 6.08386 AU	desc. node	6052 Oct 26 22:20	11° \approx 29'59	
morning rise	6046 Aug 27 01:17	28° Ω 12'24		6052 Nov 28 05:48	15° \approx	
	6046 Sep 03 21:06	0° \mathbb{P}	evening set	6053 Feb 06 19:44	28° \approx 45'59	
retrograde	6047 Jan 01 22:03	17° \mathbb{P} 25'27		6053 Feb 12 06:45	0° H	
min. Earth dist.	6047 Mar 01 04:48	12° \mathbb{P} 33'24 4.16321 AU	max. Earth dist.	6053 Feb 17 08:00	1° H 08'49	6.26622 AU
opposition	6047 Mar 02 15:53	12° \mathbb{P} 21'31 0°27'36				
direct	6047 Apr 30 20:37	7° \mathbb{P} 21'53	conjunction	6053 Feb 19 13:15	1° H 39'05	-0°08'52
evening set	6047 Sep 04 09:03	25° \mathbb{P} 55'42	minimum elong	6053 Feb 19 13:14	1° H 39'05	0°08'51
			behind sun begin	6053 Feb 19 06:21	1° H 35'11	
conjunction	6047 Sep 17 23:53	28° \mathbb{P} 58'40 0°32'36	behind sun end	6053 Feb 19 20:08	1° H 42'59	
minimum elong	6047 Sep 17 23:51	28° \mathbb{P} 58'39 0°32'37	morning rise	6053 Mar 04 06:08	4° H 32'06	
max. Earth dist.	6047 Sep 19 20:02	29° \mathbb{P} 23'26 6.24516 AU	retrograde	6053 Jul 07 04:37	22° H 46'39	
	6047 Sep 22 13:17	0° Ω	opposition	6053 Sep 05 20:27	17° H 53'08	-0°34'49
morning rise	6047 Oct 01 14:18	2° Ω 01'05	min. Earth dist.	6053 Sep 07 06:53	17° H 42'02	4.18605 AU

direct	6053 Nov 05 23:32	12° ✕ 55'27		evening set	6059 Sep 09 01:43	0° ♂ 30'56	
	6054 Mar 04 05:48	0° ♀					
evening set	6054 Mar 11 13:52	1° ♀ 42'11		conjunction	6059 Sep 22 16:10	3° ♂ 32'52	0°35'55
max. Earth dist.	6054 Mar 22 18:49	4° ♀ 19'59	6.10690 AU	minimum elong	6059 Sep 22 16:08	3° ♂ 32'52	0°35'55
				max. Earth dist.	6059 Sep 24 10:07	3° ♂ 56'18	6.26448 AU
conjunction	6054 Mar 24 08:55	4° ♀ 42'25	-0°36'48	morning rise	6059 Oct 06 05:45	6° ♂ 34'08	
minimum elong	6054 Mar 24 08:53	4° ♀ 42'24	0°36'49	retrograde	6060 Feb 07 06:26	24° ♂ 27'34	
morning rise	6054 Apr 06 04:26	7° ♀ 43'14		opposition	6060 Apr 07 08:57	19° ♂ 26'59	1°07'05
retrograde	6054 Aug 12 16:39	27° ♀ 10'54		min. Earth dist.	6060 Apr 06 13:53	19° ♂ 33'19	4.33743 AU
opposition	6054 Oct 11 23:07	22° ♀ 14'55	-1°10'30	direct	6060 Jun 07 01:46	14° ♂ 25'27	
min. Earth dist.	6054 Oct 12 16:34	22° ♀ 09'13	4.03389 AU		6060 Oct 01 00:13	0° ♂	
direct	6054 Dec 10 14:32	17° ♀ 19'40		evening set	6060 Oct 11 10:33	2° ♂ 14'02	
	6055 Mar 17 02:07	0° ♂					
evening set	6055 Apr 15 12:11	6° ♂ 50'31		conjunction	6060 Oct 24 19:15	5° ♂ 08'01	0°52'24
				minimum elong	6060 Oct 24 19:14	5° ♂ 08'00	0°52'25
conjunction	6055 Apr 28 11:46	9° ♂ 58'36	-0°53'07	max. Earth dist.	6060 Oct 25 08:31	5° ♂ 15'14	6.39964 AU
minimum elong	6055 Apr 28 11:45	9° ♂ 58'36	0°53'08	morning rise	6060 Nov 07 02:10	8° ♂ 00'56	
max. Earth dist.	6055 Apr 28 02:11	9° ♂ 52'48	5.97566 AU		6060 Dec 10 19:18	15° ♂	
morning rise	6055 May 11 13:32	13° ♂ 08'01		retrograde	6061 Mar 08 14:42	25° ♂ 03'50	
	6055 May 19 08:52	15° ♂		opposition	6061 May 08 01:09	20° ♂ 06'49	1°19'39
	6055 Aug 02 07:39	0° ♂		min. Earth dist.	6061 May 08 01:48	20° ♂ 06'36	4.44592 AU
retrograde	6055 Sep 20 00:01	3° ♂ 37'29		direct	6061 Jul 08 23:00	15° ♂ 04'40	
	6055 Nov 08 11:14	30° ♂			6061 Oct 31 06:28	0° ♂	
opposition	6055 Nov 18 20:27	28° ♂ 37'57	-1°21'22	evening set	6061 Nov 12 00:19	2° ♂ 28'48	
min. Earth dist.	6055 Nov 18 13:29	28° ♂ 40'17	3.93760 AU				
direct	6056 Jan 16 06:09	23° ♂ 43'55		conjunction	6061 Nov 25 03:06	5° ♂ 17'32	0°53'42
	6056 Mar 19 23:27	0° ♂		minimum elong	6061 Nov 25 03:06	5° ♂ 17'33	0°53'43
evening set	6056 May 21 10:19	13° ♂ 39'51		max. Earth dist.	6061 Nov 24 12:14	5° ♂ 09'33	6.47355 AU
				morning rise	6061 Dec 08 03:22	8° ♂ 05'04	
conjunction	6056 Jun 03 17:33	16° ♂ 53'57	-0°49'20	retrograde	6062 Apr 07 09:07	24° ♂ 44'41	
minimum elong	6056 Jun 03 17:35	16° ♂ 53'58	0°49'22	opposition	6062 Jun 07 03:41	19° ♂ 50'34	1°10'48
max. Earth dist.	6056 Jun 04 21:03	17° ♂ 10'42	5.92378 AU	min. Earth dist.	6062 Jun 07 22:08	19° ♂ 44'38	4.48190 AU
morning rise	6056 Jun 17 03:26	20° ♂ 09'32		direct	6062 Aug 08 17:34	14° ♂ 48'36	
	6056 Jul 30 01:57	0° ♂			6062 Dec 02 13:05	0° ♂	
retrograde	6056 Oct 27 12:10	10° ♂ 57'23		evening set	6062 Dec 12 13:21	2° ♂ 07'38	
min. Earth dist.	6056 Dec 24 21:13	6° ♂ 03'42	3.93717 AU	max. Earth dist.	6062 Dec 23 20:59	4° ♂ 33'59	6.46873 AU
opposition	6056 Dec 26 00:32	5° ♂ 54'27	-0°59'18				
direct	6057 Feb 21 22:05	0° ♂ 59'32		conjunction	6062 Dec 25 11:08	4° ♂ 54'37	0°40'42
evening set	6057 Jun 28 07:04	20° ♂ 48'12		minimum elong	6062 Dec 25 11:10	4° ♂ 54'38	0°40'45
				morning rise	6063 Jan 07 06:30	7° ♂ 40'33	
conjunction	6057 Jul 11 21:12	24° ♂ 03'12	-0°25'47	retrograde	6063 May 07 19:11	24° ♂ 26'37	
minimum elong	6057 Jul 11 21:14	24° ♂ 03'13	0°25'49	opposition	6063 Jul 07 17:14	19° ♂ 34'09	0°43'29
max. Earth dist.	6057 Jul 14 02:33	24° ♂ 35'07	5.97419 AU	min. Earth dist.	6063 Jul 09 02:29	19° ♂ 23'32	4.43686 AU
morning rise	6057 Jul 25 13:49	27° ♂ 19'15		direct	6063 Sep 08 10:22	14° ♂ 33'03	
	6057 Aug 05 23:16	0° ♂			6064 Jan 02 05:28	0° ♂	
	6057 Oct 24 06:31	15° ♂		evening set	6064 Jan 11 23:37	2° ♂ 07'03	
retrograde	6057 Dec 03 05:20	17° ♂ 31'05		max. Earth dist.	6064 Jan 22 13:24	4° ♂ 26'45	6.38622 AU
	6058 Jan 12 01:33	15° ♂					
min. Earth dist.	6058 Jan 30 04:51	12° ♂ 39'18	4.03261 AU	conjunction	6064 Jan 24 18:07	4° ♂ 55'53	0°16'39
opposition	6058 Jan 31 18:32	12° ♂ 26'28	-0°14'07	minimum elong	6064 Jan 24 18:08	4° ♂ 55'53	0°16'40
direct	6058 Mar 31 00:54	7° ♂ 29'05		morning rise	6064 Feb 06 11:03	7° ♂ 44'07	
asc. node	6058 May 24 23:04	12° ♂ 08'14			6064 Mar 11 21:45	15° ♂	
	6058 Jun 10 16:48	15° ♂		retrograde	6064 Jun 07 18:45	25° ♂ 06'15	
evening set	6058 Aug 04 13:39	26° ♂ 42'45		opposition	6064 Aug 07 16:02	20° ♂ 13'49	0°03'13
				min. Earth dist.	6064 Aug 09 06:39	20° ♂ 01'28	4.32128 AU
conjunction	6058 Aug 18 06:27	29° ♂ 52'50	0°07'05	desc. node	6064 Sep 05 15:21	16° ♂ 51'51	
minimum elong	6058 Aug 18 06:26	29° ♂ 52'49	0°07'03	direct	6064 Oct 08 18:39	15° ♂ 14'15	
behind sun begin	6058 Aug 17 22:44	29° ♂ 48'23			6065 Jan 27 04:51	0° ♂	
behind sun end	6058 Aug 18 14:09	29° ♂ 57'16		evening set	6065 Feb 11 06:33	3° ♂ 21'40	
	6058 Aug 18 18:52	0° ♂		max. Earth dist.	6065 Feb 21 21:07	5° ♂ 46'24	6.24611 AU
max. Earth dist.	6058 Aug 20 15:17	0° ♂ 25'44	6.10509 AU				
morning rise	6058 Sep 01 00:18	3° ♂ 03'05		conjunction	6065 Feb 24 00:14	6° ♂ 15'35	-0°13'04
retrograde	6059 Jan 06 10:48	22° ♂ 06'17		minimum elong	6065 Feb 24 00:13	6° ♂ 15'34	0°13'03
min. Earth dist.	6059 Mar 05 20:13	17° ♂ 13'37	4.18428 AU	behind sun begin	6065 Feb 23 19:18	6° ♂ 12'47	
opposition	6059 Mar 07 04:38	17° ♂ 02'40	0°33'30	behind sun end	6065 Feb 24 05:07	6° ♂ 18'22	
direct	6059 May 05 14:38	12° ♂ 02'42		morning rise	6065 Mar 08 17:07	9° ♂ 09'27	
	6059 Sep 06 17:55	0° ♂		retrograde	6065 Jul 12 02:22	27° ♂ 33'00	

opposition	6065 Sep 10 17:21	22° H 39'15	-0°40'40	min. Earth dist.	6071 Mar 10 12:00	22° H 01'56	4.20480 AU
min. Earth dist.	6065 Sep 12 02:06	22° H 28'41	4.16546 AU	opposition	6071 Mar 11 19:50	21° H 51'12	0°39'20
direct	6065 Nov 10 15:26	17° H 41'57		direct	6071 May 10 08:45	16° H 51'01	
	6066 Feb 15 06:52	0° Y			6071 Aug 20 17:00	0° A	
evening set	6066 Mar 16 07:00	6° Y 34'37		evening set	6071 Sep 13 21:23	5° A 13'45	
max. Earth dist.	6066 Mar 27 14:16	9° Y 14'31	6.08739 AU				
				conjunction	6071 Sep 27 11:00	8° A 14'32	0°39'06
conjunction	6066 Mar 29 02:18	9° Y 35'49	-0°40'00	minimum elong	6071 Sep 27 10:59	8° A 14'31	0°39'06
minimum elong	6066 Mar 29 02:17	9° Y 35'49	0°40'00	max. Earth dist.	6071 Sep 29 00:36	8° A 35'27	6.28454 AU
morning rise	6066 Apr 10 22:35	12° Y 37'48		morning rise	6071 Oct 10 23:54	11° A 14'36	
	6066 Jul 10 17:12	0° B		retrograde	6072 Feb 11 15:07	28° A 59'54	
retrograde	6066 Aug 17 21:13	2° B 14'53		opposition	6072 Apr 11 18:23	23° A 59'47	1°10'11
	6066 Sep 25 07:43	30° R Y		min. Earth dist.	6072 Apr 11 02:04	24° A 05'12	4.35585 AU
opposition	6066 Oct 17 02:46	27° Y 18'26	-1°13'48	direct	6072 Jun 11 16:08	18° A 58'07	
min. Earth dist.	6066 Oct 17 17:07	27° Y 13'44	4.01715 AU		6072 Sep 13 17:08	0° M	
direct	6066 Dec 15 13:51	22° Y 23'25		evening set	6072 Oct 15 23:32	6° M 42'08	
	6067 Feb 25 09:21	0° B					
evening set	6067 Apr 20 11:55	11° B 59'00		conjunction	6072 Oct 29 07:31	9° M 35'10	0°53'30
	6067 May 02 23:11	15° B		minimum elong	6072 Oct 29 07:30	9° M 35'10	0°53'32
				max. Earth dist.	6072 Oct 29 18:47	9° M 41'17	6.41539 AU
conjunction	6067 May 03 12:35	15° B 08'07	-0°53'53	morning rise	6072 Nov 11 13:17	12° M 27'02	
minimum elong	6067 May 03 12:34	15° B 08'07	0°53'54		6072 Nov 23 12:34	15° M	
max. Earth dist.	6067 May 03 08:56	15° B 05'54	5.96338 AU	retrograde	6073 Mar 12 17:58	29° M 24'19	
morning rise	6067 May 16 15:14	18° B 18'33		opposition	6073 May 12 06:50	24° M 27'43	1°19'39
	6067 Jul 07 19:58	0° I		min. Earth dist.	6073 May 12 08:41	24° M 27'06	4.45828 AU
retrograde	6067 Sep 25 09:49	8° I 53'39		direct	6073 Jul 13 06:47	19° M 25'35	
opposition	6067 Nov 24 03:27	3° I 53'40	-1°20'13		6073 Oct 14 05:20	0° J	
min. Earth dist.	6067 Nov 23 18:13	3° I 56'45	3.93128 AU	evening set	6073 Nov 16 07:58	6° J 46'41	
	6067 Dec 27 23:41	30° R B					
direct	6068 Jan 21 10:39	28° B 59'40		conjunction	6073 Nov 29 09:47	9° J 34'45	0°52'42
	6068 Feb 14 18:38	0° I		minimum elong	6073 Nov 29 09:48	9° J 34'46	0°52'43
evening set	6068 May 26 15:16	18° I 56'48		max. Earth dist.	6073 Nov 28 15:15	9° J 24'48	6.48172 AU
				morning rise	6073 Dec 12 09:16	12° J 21'39	
conjunction	6068 Jun 08 23:29	22° I 11'24	-0°47'05	retrograde	6074 Apr 11 13:48	28° J 58'54	
minimum elong	6068 Jun 08 23:31	22° I 11'25	0°47'06	opposition	6074 Jun 11 08:33	24° J 05'04	1°08'01
max. Earth dist.	6068 Jun 10 06:16	22° I 30'08	5.92387 AU	min. Earth dist.	6074 Jun 12 05:56	23° J 58'12	4.48536 AU
morning rise	6068 Jun 22 10:38	25° I 27'31		direct	6074 Aug 13 01:25	19° J 03'08	
	6068 Jul 11 13:41	0° E			6074 Nov 15 23:51	0° Z	
retrograde	6068 Nov 01 16:11	16° E 13'51		evening set	6074 Dec 16 17:43	6° Z 21'13	
min. Earth dist.	6068 Dec 29 22:51	11° E 20'50	3.94381 AU	max. Earth dist.	6074 Dec 27 21:37	8° Z 45'41	6.46708 AU
opposition	6068 Dec 31 05:04	11° E 10'35	-0°53'57				
direct	6069 Feb 27 01:19	6° E 15'24		conjunction	6074 Dec 29 14:51	9° Z 08'00	0°37'58
evening set	6069 Jul 03 12:46	26° E 01'19		minimum elong	6074 Dec 29 14:52	9° Z 08'01	0°38'00
				morning rise	6075 Jan 11 09:41	11° Z 53'48	
conjunction	6069 Jul 17 03:36	29° E 16'03	-0°21'26	retrograde	6075 May 12 00:20	28° Z 41'15	
minimum elong	6069 Jul 17 03:37	29° E 16'04	0°21'27	opposition	6075 Jul 11 23:31	23° Z 48'47	0°38'36
max. Earth dist.	6069 Jul 19 09:49	29° E 48'24	5.98667 AU	min. Earth dist.	6075 Jul 13 09:40	23° Z 37'53	4.43012 AU
	6069 Jul 20 05:17	0° O		direct	6075 Sep 12 15:37	18° Z 47'45	
morning rise	6069 Jul 30 20:46	2° O 31'45			6075 Dec 16 22:36	0° A	
	6069 Sep 26 09:47	15° O		evening set	6076 Jan 16 03:51	6° A 23'30	
retrograde	6069 Dec 08 04:01	22° O 36'10		max. Earth dist.	6076 Jan 26 17:31	8° A 43'28	6.37476 AU
min. Earth dist.	6070 Feb 04 03:54	17° O 44'09	4.04927 AU				
opposition	6070 Feb 05 16:57	17° O 31'32	-0°07'08	conjunction	6076 Jan 28 22:07	9° A 12'37	0°12'50
	6070 Feb 25 05:47	15° R O		minimum elong	6076 Jan 28 22:08	9° A 12'37	0°12'51
asc. node	6070 Apr 03 20:08	12° O 33'55		behind sun begin	6076 Jan 28 17:08	9° A 09'52	
direct	6070 Apr 05 03:10	12° O 33'44		behind sun end	6076 Jan 29 03:07	9° A 15'23	
	6070 May 14 01:30	15° O		morning rise	6076 Feb 10 14:40	12° A 01'11	
	6070 Aug 02 04:13	0° H			6076 Feb 24 06:52	15° A	
evening set	6070 Aug 09 15:22	1° H 42'12		retrograde	6076 Jun 12 05:34	29° A 28'38	
				desc. node	6076 Jul 18 19:01	27° A 29'36	
conjunction	6070 Aug 23 08:18	4° H 51'26	0°11'37	opposition	6076 Aug 12 02:41	24° A 36'05	-0°02'43
minimum elong	6070 Aug 23 08:17	4° H 51'25	0°11'36	min. Earth dist.	6076 Aug 13 18:07	24° A 23'29	4.30554 AU
behind sun begin	6070 Aug 23 02:25	4° H 48'03		direct	6076 Oct 13 02:59	19° A 36'43	
behind sun end	6070 Aug 23 14:09	4° H 54'47			6077 Jan 10 12:33	0° H	
max. Earth dist.	6070 Aug 25 17:32	5° H 24'23	6.12458 AU	evening set	6077 Feb 15 14:01	7° H 48'33	
morning rise	6070 Sep 06 01:47	8° H 00'38		max. Earth dist.	6077 Feb 26 03:19	10° H 13'14	6.22708 AU
retrograde	6071 Jan 11 01:17	26° H 54'27					

conjunction	6077 Feb 28 07:34	10° H 43'12	-0°17'01	retrograde	6083 Jan 15 15:50	1° Q 44'49	
minimum elong	6077 Feb 28 07:33	10° H 43'11	0°17'01		6083 Feb 17 16:33	30° R H	
morning rise	6077 Mar 13 00:50	13° H 37'57		min. Earth dist.	6083 Mar 15 05:35	26° H 52'05	4.22602 AU
	6077 Jun 09 00:46	0° Y		opposition	6083 Mar 16 12:05	26° H 41'48	0°44'53
retrograde	6077 Jul 16 20:31	2° Y 10'30		direct	6083 May 15 05:36	21° H 41'18	
	6077 Aug 23 23:35	30° R H			6083 Aug 01 11:03	0° Q	
opposition	6077 Sep 15 10:49	27° H 16'23	-0°46'03	evening set	6083 Sep 18 17:42	9° Q 58'03	
min. Earth dist.	6077 Sep 16 18:11	27° H 06'14	4.14429 AU				
direct	6077 Nov 15 04:33	22° H 19'16		conjunction	6083 Oct 02 06:46	12° Q 57'39	0°42'02
	6078 Jan 27 17:42	0° Y		minimum elong	6083 Oct 02 06:44	12° Q 57'38	0°42'02
evening set	6078 Mar 20 20:41	11° Y 18'22		max. Earth dist.	6083 Oct 03 18:48	13° Q 17'37	6.30575 AU
max. Earth dist.	6078 Apr 01 08:14	14° Y 01'29	6.06597 AU	morning rise	6083 Oct 15 18:33	15° Q 56'24	
					6083 Dec 29 04:09	0° M	
conjunction	6078 Apr 02 16:40	14° Y 20'45	-0°42'49	retrograde	6084 Feb 15 23:26	3° M 33'07	
minimum elong	6078 Apr 02 16:38	14° Y 20'44	0°42'49		6084 Apr 05 02:58	30° R Q	
morning rise	6078 Apr 15 13:28	17° Y 23'56		opposition	6084 Apr 16 04:26	28° Q 33'28	1°12'50
	6078 Jun 12 23:03	0° B		min. Earth dist.	6084 Apr 15 13:53	28° Q 38'17	4.37504 AU
retrograde	6078 Aug 23 00:51	7° B 11'20		direct	6084 Jun 16 06:00	23° Q 31'43	
opposition	6078 Oct 22 03:32	2° B 14'31	-1°16'30		6084 Aug 24 14:07	0° M	
min. Earth dist.	6078 Oct 22 16:19	2° B 10'19	3.99747 AU	evening set	6084 Oct 20 12:40	11° M 10'50	
	6078 Nov 08 20:25	30° R Y					
direct	6078 Dec 20 10:29	27° Y 19'42		conjunction	6084 Nov 02 19:32	14° M 02'52	0°54'17
	6079 Jan 30 05:06	0° B		minimum elong	6084 Nov 02 19:32	14° M 02'52	0°54'19
	6079 Apr 16 23:29	15° B		max. Earth dist.	6084 Nov 03 01:27	14° M 06'03	6.43076 AU
evening set	6079 Apr 25 10:01	17° B 01'33			6084 Nov 07 05:16	15° M	
				morning rise	6084 Nov 16 00:29	16° M 53'46	
conjunction	6079 May 08 11:34	20° B 11'52	-0°54'14		6085 Jan 25 05:24	0° J	
minimum elong	6079 May 08 11:34	20° B 11'52	0°54'17	retrograde	6085 Mar 17 00:10	3° J 45'55	
max. Earth dist.	6079 May 08 10:33	20° B 11'15	5.94725 AU		6085 May 07 10:51	30° R M	
morning rise	6079 May 21 15:34	23° B 23'38		opposition	6085 May 16 13:26	28° M 49'44	1°19'10
	6079 Jun 18 18:28	0° H		min. Earth dist.	6085 May 16 18:50	28° M 47'58	4.46876 AU
retrograde	6079 Sep 30 15:56	14° H 05'51		direct	6085 Jul 17 17:32	23° M 47'34	
opposition	6079 Nov 29 08:38	9° H 05'25	-1°18'31		6085 Sep 24 07:08	0° J	
min. Earth dist.	6079 Nov 28 19:35	9° H 09'47	3.92071 AU	evening set	6085 Nov 20 15:54	11° J 06'22	
direct	6080 Jan 26 11:25	4° H 11'22					
evening set	6080 May 31 20:02	24° H 11'45		conjunction	6085 Dec 03 17:06	13° J 53'59	0°51'22
				minimum elong	6085 Dec 03 17:06	13° J 54'00	0°51'24
conjunction	6080 Jun 14 05:30	27° H 27'07	-0°44'29	max. Earth dist.	6085 Dec 02 19:54	13° J 42'37	6.48642 AU
minimum elong	6080 Jun 14 05:31	27° H 27'08	0°44'31	morning rise	6085 Dec 16 15:38	16° J 40'23	
max. Earth dist.	6080 Jun 15 16:29	27° H 48'26	5.92000 AU		6086 Feb 27 10:00	0° Z	
	6080 Jun 24 17:04	0° Q		retrograde	6086 Apr 15 17:57	3° Z 16'44	
morning rise	6080 Jun 27 17:48	0° Q 43'58			6086 Jun 02 18:37	30° R J	
retrograde	6080 Nov 06 22:36	21° Q 30'23		opposition	6086 Jun 15 14:43	28° J 23'10	1°04'46
min. Earth dist.	6081 Jan 04 02:24	16° Q 37'29	3.94697 AU	min. Earth dist.	6086 Jun 16 13:33	28° J 15'51	4.48403 AU
opposition	6081 Jan 05 09:57	16° Q 26'45	-0°48'15	direct	6086 Aug 17 07:31	23° J 21'22	
direct	6081 Mar 04 07:06	11° Q 31'16			6086 Oct 27 16:02	0° Z	
	6081 Jul 03 11:05	0° Q		evening set	6086 Dec 20 23:59	10° Z 40'17	
evening set	6081 Jul 08 19:26	1° Q 15'44		max. Earth dist.	6087 Jan 01 00:51	13° Z 03'26	6.45976 AU
conjunction	6081 Jul 22 11:08	4° Q 30'22	-0°16'57	conjunction	6087 Jan 02 20:31	13° Z 27'07	0°34'55
minimum elong	6081 Jul 22 11:09	4° Q 30'22	0°16'58	minimum elong	6087 Jan 02 20:32	13° Z 27'08	0°34'57
max. Earth dist.	6081 Jul 24 21:07	5° Q 04'50	5.99662 AU	morning rise	6087 Jan 15 14:53	16° Z 13'01	
morning rise	6081 Aug 05 04:45	7° Q 45'47			6087 Mar 31 16:37	0° \approx	
	6081 Sep 05 23:50	15° Q		retrograde	6087 May 16 10:49	3° \approx 04'02	
retrograde	6081 Dec 13 04:02	27° Q 43'24			6087 Jul 01 20:28	30° R Z	
min. Earth dist.	6082 Feb 09 02:34	22° Q 51'42	4.06477 AU	opposition	6087 Jul 16 09:18	28° Z 11'41	0°33'17
opposition	6082 Feb 10 16:30	22° Q 38'48	-0°00'07	min. Earth dist.	6087 Jul 17 21:48	28° Z 00'03	4.41702 AU
asc. node	6082 Feb 11 14:01	22° Q 31'28		direct	6087 Sep 17 01:04	23° Z 10'51	
direct	6082 Apr 10 04:32	17° Q 40'40			6087 Nov 27 15:43	0° \approx	
	6082 Jul 15 09:13	0° H		evening set	6088 Jan 20 11:43	10° \approx 50'27	
evening set	6082 Aug 14 18:50	6° H 44'11		max. Earth dist.	6088 Jan 30 22:50	13° \approx 09'39	6.35677 AU
conjunction	6082 Aug 28 11:28	9° H 52'26	0°16'04	conjunction	6088 Feb 02 05:43	13° \approx 40'11	0°08'44
minimum elong	6082 Aug 28 11:27	9° H 52'26	0°16'04	minimum elong	6088 Feb 02 05:43	13° \approx 40'11	0°08'46
max. Earth dist.	6082 Aug 30 18:45	10° H 24'09	6.14399 AU	behind sun begin	6088 Feb 01 22:49	13° \approx 36'22	
morning rise	6082 Sep 11 04:45	13° H 00'37		behind sun end	6088 Feb 02 12:37	13° \approx 44'00	
	6082 Dec 13 09:54	0° Q			6088 Feb 08 05:09	15° \approx	

morning rise	6088 Feb 14 22:17	16° \approx 29'26	retrograde	6093 Dec 18 00:21	2° \mathbb{M} 49'14	
	6088 Apr 24 21:52	0° \mathbb{H}	asc. node	6093 Dec 21 23:14	2° \mathbb{M} 47'39	
desc. node	6088 May 28 04:42	3° \mathbb{H} 28'34		6094 Jan 29 10:17	30° \mathbb{R} \mathbb{Q}	
retrograde	6088 Jun 16 22:10	4° \mathbb{H} 04'48	min. Earth dist.	6094 Feb 14 01:03	27° \mathbb{Q} 57'32	4.08850 AU
	6088 Aug 10 12:33	30° \mathbb{R} \approx	opposition	6094 Feb 15 15:04	27° \mathbb{Q} 44'35	0°06'52
opposition	6088 Aug 16 18:58	29° \approx 12'04 -0°09'00	direct	6094 Apr 15 06:49	22° \mathbb{Q} 46'01	
min. Earth dist.	6088 Aug 18 09:32	28° \approx 59'43 4.28367 AU		6094 Jun 25 01:02	0° \mathbb{M}	
direct	6088 Oct 17 15:04	24° \approx 12'57	evening set	6094 Aug 19 20:20	11° \mathbb{M} 41'46	
	6088 Dec 20 20:01	0° \mathbb{H}				
evening set	6089 Feb 20 03:14	12° \mathbb{H} 31'17	conjunction	6094 Sep 02 12:46	14° \mathbb{M} 48'43	0°20'21
max. Earth dist.	6089 Mar 02 19:25	14° \mathbb{H} 58'22 6.20316 AU	minimum elong	6094 Sep 02 12:45	14° \mathbb{M} 48'42	0°20'21
			max. Earth dist.	6094 Sep 04 19:01	15° \mathbb{M} 19'39	6.17001 AU
conjunction	6089 Mar 04 21:02	15° \mathbb{H} 26'58 -0°21'08	morning rise	6094 Sep 16 05:19	17° \mathbb{M} 55'24	
minimum elong	6089 Mar 04 21:01	15° \mathbb{H} 26'58 0°21'08		6094 Nov 13 23:43	0° \mathbb{Q}	
morning rise	6089 Mar 17 14:29	18° \mathbb{H} 22'50	retrograde	6095 Jan 20 04:31	6° \mathbb{Q} 28'06	
	6089 May 11 18:59	0° \mathbb{Y}	min. Earth dist.	6095 Mar 19 21:24	1° \mathbb{Q} 35'01	4.25171 AU
retrograde	6089 Jul 21 23:20	7° \mathbb{Y} 06'12	opposition	6095 Mar 21 01:48	1° \mathbb{Q} 25'29	0°49'59
opposition	6089 Sep 20 11:33	2° \mathbb{Y} 11'49 -0°51'31		6095 Mar 31 20:09	30° \mathbb{R} \mathbb{M}	
min. Earth dist.	6089 Sep 21 17:49	2° \mathbb{Y} 02'01 4.12009 AU	direct	6095 May 20 00:34	26° \mathbb{M} 24'43	
	6089 Oct 08 01:07	30° \mathbb{R} \mathbb{H}		6095 Jul 08 07:07	0° \mathbb{Q}	
direct	6089 Nov 20 00:56	27° \mathbb{H} 15'05	evening set	6095 Sep 23 10:46	14° \mathbb{Q} 34'15	
	6090 Jan 01 04:54	0° \mathbb{Y}				
evening set	6090 Mar 25 17:55	16° \mathbb{Y} 21'31	conjunction	6095 Oct 06 22:52	17° \mathbb{Q} 32'31	0°44'37
max. Earth dist.	6090 Apr 06 08:14	19° \mathbb{Y} 07'08 6.04366 AU	minimum elong	6095 Oct 06 22:51	17° \mathbb{Q} 32'30	0°44'38
			max. Earth dist.	6095 Oct 08 06:04	17° \mathbb{Q} 49'41	6.32889 AU
conjunction	6090 Apr 07 14:24	19° \mathbb{Y} 25'08 -0°45'31	morning rise	6095 Oct 20 09:49	20° \mathbb{Q} 29'54	
minimum elong	6090 Apr 07 14:23	19° \mathbb{Y} 25'07 0°45'31		6095 Dec 05 21:00	0° \mathbb{M}	
morning rise	6090 Apr 20 12:13	22° \mathbb{Y} 29'43	retrograde	6096 Feb 20 04:26	7° \mathbb{M} 58'01	
	6090 May 23 06:34	0° \mathbb{B}	opposition	6096 Apr 20 11:28	2° \mathbb{M} 58'49	1°14'59
retrograde	6090 Aug 28 10:11	12° \mathbb{B} 27'33	min. Earth dist.	6096 Apr 19 23:50	3° \mathbb{M} 02'39	4.39410 AU
opposition	6090 Oct 27 11:47	7° \mathbb{B} 30'16 -1°18'46		6096 May 14 18:37	30° \mathbb{R} \mathbb{Q}	
min. Earth dist.	6090 Oct 27 20:09	7° \mathbb{B} 27'30 3.97946 AU	direct	6096 Jun 20 17:41	27° \mathbb{Q} 56'53	
direct	6090 Dec 25 12:57	2° \mathbb{B} 35'41		6096 Jul 28 03:35	0° \mathbb{M}	
	6091 Mar 30 01:52	15° \mathbb{B}		6096 Oct 22 11:39	15° \mathbb{M}	
evening set	6091 Apr 30 15:13	22° \mathbb{B} 22'47	evening set	6096 Oct 24 22:31	15° \mathbb{M} 31'27	
conjunction	6091 May 13 17:54	25° \mathbb{B} 34'10 -0°54'10	conjunction	6096 Nov 07 04:40	18° \mathbb{M} 22'37	0°54'44
minimum elong	6091 May 13 17:54	25° \mathbb{B} 34'10 0°54'12	minimum elong	6096 Nov 07 04:40	18° \mathbb{M} 22'37	0°54'46
max. Earth dist.	6091 May 13 22:59	25° \mathbb{B} 37'16 5.93552 AU	max. Earth dist.	6096 Nov 07 07:13	18° \mathbb{M} 24'00	6.44438 AU
morning rise	6091 May 26 23:01	28° \mathbb{B} 47'01	morning rise	6096 Nov 20 08:28	21° \mathbb{M} 12'35	
	6091 Jun 01 00:03	0° \mathbb{I}		6097 Jan 03 00:01	0° \mathbb{J}	
retrograde	6091 Oct 06 04:52	19° \mathbb{I} 34'04	retrograde	6097 Mar 21 02:17	8° \mathbb{J} 00'28	
opposition	6091 Dec 04 19:58	14° \mathbb{I} 33'05 -1°15'59	opposition	6097 May 20 17:28	3° \mathbb{J} 04'44	1°18'18
min. Earth dist.	6091 Dec 04 04:10	14° \mathbb{I} 38'24 3.91683 AU	min. Earth dist.	6097 May 21 01:26	3° \mathbb{J} 02'10	4.47622 AU
direct	6092 Jan 31 21:07	9° \mathbb{I} 39'00		6097 Jun 15 09:21	30° \mathbb{R} \mathbb{M}	
evening set	6092 Jun 06 05:53	29° \mathbb{I} 39'26	direct	6097 Jul 22 00:05	28° \mathbb{M} 02'36	
	6092 Jun 07 15:53	0° \mathbb{Q}		6097 Aug 27 23:09	0° \mathbb{J}	
			evening set	6097 Nov 24 21:43	15° \mathbb{J} 20'12	
conjunction	6092 Jun 19 16:30	2° \mathbb{Q} 55'08 -0°41'24				
minimum elong	6092 Jun 19 16:32	2° \mathbb{Q} 55'09 0°41'26	conjunction	6097 Dec 07 22:03	18° \mathbb{J} 07'29	0°49'47
max. Earth dist.	6092 Jun 21 09:22	3° \mathbb{Q} 19'57 5.92456 AU	minimum elong	6097 Dec 07 22:03	18° \mathbb{J} 07'30	0°49'50
morning rise	6092 Jul 03 05:47	6° \mathbb{Q} 12'12	max. Earth dist.	6097 Dec 06 19:28	17° \mathbb{J} 53'13	6.48702 AU
retrograde	6092 Nov 12 06:29	26° \mathbb{Q} 54'17	morning rise	6097 Dec 20 20:04	20° \mathbb{J} 53'39	
min. Earth dist.	6093 Jan 09 07:15	22° \mathbb{Q} 01'53 3.95967 AU		6098 Feb 04 10:21	0° \mathbb{Z}	
opposition	6093 Jan 10 17:10	21° \mathbb{Q} 50'21 -0°41'58	retrograde	6098 Apr 19 23:53	7° \mathbb{Z} 30'37	
direct	6093 Mar 09 14:51	16° \mathbb{Q} 54'33	opposition	6098 Jun 19 20:07	2° \mathbb{Z} 37'19	1°01'16
	6093 Jun 15 13:19	0° \mathbb{Q}	min. Earth dist.	6098 Jun 20 22:21	2° \mathbb{Z} 28'55	4.47785 AU
evening set	6093 Jul 14 03:59	6° \mathbb{Q} 33'45		6098 Jul 11 09:56	30° \mathbb{R} \mathbb{J}	
			direct	6098 Aug 21 14:28	27° \mathbb{J} 35'34	
conjunction	6093 Jul 27 19:57	9° \mathbb{Q} 47'37 -0°12'16		6098 Oct 01 20:08	0° \mathbb{Z}	
minimum elong	6093 Jul 27 19:58	9° \mathbb{Q} 47'38 0°12'18	evening set	6098 Dec 25 05:11	14° \mathbb{Z} 56'49	
behind sun begin	6093 Jul 27 14:29	9° \mathbb{Q} 44'24	max. Earth dist.	6099 Jan 05 03:24	17° \mathbb{Z} 18'57	6.44715 AU
behind sun end	6093 Jul 28 01:26	9° \mathbb{Q} 50'51				
max. Earth dist.	6093 Jul 30 06:11	10° \mathbb{Q} 22'05 6.01599 AU	conjunction	6099 Jan 07 01:26	17° \mathbb{Z} 44'00	0°31'43
morning rise	6093 Aug 10 13:59	13° \mathbb{Q} 02'13	minimum elong	6099 Jan 07 01:27	17° \mathbb{Z} 44'00	0°31'44
	6093 Aug 19 00:11	15° \mathbb{Q}	morning rise	6099 Jan 19 19:22	20° \mathbb{Z} 30'15	
	6093 Nov 05 13:19	0° \mathbb{M}		6099 Mar 07 20:15	0° \approx	

retrograde	6099 May 20 20:23	7° \approx 26'40	
opposition	6099 Jul 20 19:24	2° \approx 34'22	0°27'49
min. Earth dist.	6099 Jul 22 08:06	2° \approx 22'39	4.39885 AU
	6099 Aug 11 00:15	30° \approx 3	
direct	6099 Sep 21 08:07	27° \approx 33'46	
	6099 Nov 01 12:12	0° \approx	
	6100 Jan 23 10:16	15° \approx	
evening set	6100 Jan 24 20:33	15° \approx 18'58	
max. Earth dist.	6100 Feb 04 07:51	17° \approx 39'00	6.33438 AU
conjunction	6100 Feb 06 14:23	18° \approx 09'31	0°04'36
minimum elong	6100 Feb 06 14:23	18° \approx 09'31	0°04'38
behind sun begin	6100 Feb 06 06:36	18° \approx 05'10	
behind sun end	6100 Feb 06 22:11	18° \approx 13'51	
morning rise	6100 Feb 19 06:56	20° \approx 59'40	
	6100 Apr 03 03:57	0° \approx	
desc. node	6100 Apr 07 18:36	0° \approx 51'45	
retrograde	6100 Jun 22 18:23	8° \approx 44'30	
opposition	6100 Aug 22 13:11	3° \approx 51'42	-0°15'18
min. Earth dist.	6100 Aug 24 04:08	3° \approx 39'13	4.25847 AU
	6100 Sep 26 03:14	30° \approx	
direct	6100 Oct 23 06:04	28° \approx 52'56	
	6100 Nov 19 06:12	0° \approx	
evening set	6101 Feb 25 18:36	17° \approx 18'53	
max. Earth dist.	6101 Mar 08 12:07	19° \approx 47'38	6.17726 AU
conjunction	6101 Mar 10 12:38	20° \approx 15'45	-0°25'09
minimum elong	6101 Mar 10 12:36	20° \approx 15'45	0°25'09
morning rise	6101 Mar 23 06:39	23° \approx 12'56	
	6101 Apr 22 15:53	0° \approx	
retrograde	6101 Jul 28 03:21	12° \approx 07'55	
opposition	6101 Sep 26 14:57	7° \approx 13'13	-0°56'42
min. Earth dist.	6101 Sep 27 17:29	7° \approx 04'37	4.09580 AU
direct	6101 Nov 25 22:06	2° \approx 16'54	