






















































































































































































































































retrograde	5600 Jan 12 05:16	2°♏48'56		max. Earth dist.	5605 Dec 03 13:37	12°♏48'27	10.50339 AU
	5600 Mar 11 09:07	30°♏♏		morning rise	5605 Dec 20 20:09	14°♏56'25	
opposition	5600 Mar 19 03:31	29°♏22'09	1°28'53	retrograde	5606 Mar 31 08:26	22°♏24'26	
min. Earth dist.	5600 Mar 19 03:44	29°♏22'06	8.17790 AU	opposition	5606 Jun 07 02:49	19°♏03'11	2°23'10
direct	5600 May 25 15:46	25°♏53'50		min. Earth dist.	5606 Jun 07 04:20	19°♏02'53	8.54625 AU
	5600 Aug 04 13:57	0°♏		direct	5606 Aug 16 02:13	15°♏36'58	
evening set	5600 Sep 07 19:51	3°♏59'10		evening set	5606 Nov 29 10:53	23°♏20'06	
conjunction	5600 Sep 25 19:46	6°♏16'21	1°23'27	conjunction	5606 Dec 16 16:26	25°♏26'42	1°49'36
minimum elong	5600 Sep 25 19:43	6°♏16'20	1°23'27	minimum elong	5606 Dec 16 16:28	25°♏26'43	1°49'37
max. Earth dist.	5600 Sep 25 18:46	6°♏16'02	10.18863 AU	max. Earth dist.	5606 Dec 16 14:26	25°♏26'05	10.58685 AU
morning rise	5600 Oct 13 17:50	8°♏33'01		morning rise	5607 Jan 02 17:49	27°♏32'05	
retrograde	5601 Jan 25 02:23	16°♏30'56			5607 Jan 24 00:30	0°♏	
opposition	5601 Apr 01 21:55	13°♏04'53	1°57'03	retrograde	5607 Apr 13 00:19	4°♏54'20	
min. Earth dist.	5601 Apr 01 22:48	13°♏04'42	8.20548 AU	opposition	5607 Jun 20 02:53	1°♏33'59	2°05'51
direct	5601 Jun 08 18:42	9°♏36'16		min. Earth dist.	5607 Jun 20 04:43	1°♏33'38	8.62863 AU
evening set	5601 Sep 22 10:17	17°♏41'37			5607 Jul 11 05:27	30°♏♏	
conjunction	5601 Oct 10 07:43	19°♏57'34	1°43'35	direct	5607 Aug 29 08:19	28°♏08'49	
minimum elong	5601 Oct 10 07:41	19°♏57'33	1°43'35		5607 Oct 16 10:24	0°♏	
max. Earth dist.	5601 Oct 10 05:49	19°♏56'57	10.22512 AU	evening set	5607 Dec 12 06:34	5°♏45'22	
morning rise	5601 Oct 28 02:29	22°♏12'45		conjunction	5607 Dec 29 09:26	7°♏50'14	1°33'20
	5602 Jan 28 16:04	0°♏		minimum elong	5607 Dec 29 09:28	7°♏50'15	1°33'21
retrograde	5602 Feb 07 18:29	0°♏05'41		max. Earth dist.	5607 Dec 29 07:05	7°♏49'31	10.66777 AU
	5602 Feb 17 21:11	30°♏♏		morning rise	5608 Jan 15 08:35	9°♏54'00	
opposition	5602 Apr 15 14:35	26°♏40'31	2°18'22	retrograde	5608 Apr 24 10:11	17°♏11'12	
min. Earth dist.	5602 Apr 15 16:22	26°♏40'09	8.25098 AU	opposition	5608 Jul 01 23:19	13°♏51'38	1°43'02
direct	5602 Jun 22 21:35	23°♏11'53		min. Earth dist.	5608 Jul 02 01:23	13°♏51'14	8.70657 AU
	5602 Sep 26 13:16	0°♏		direct	5608 Sep 10 11:10	10°♏27'33	
evening set	5602 Oct 06 20:12	1°♏15'27		evening set	5608 Dec 23 19:06	17°♏57'43	
conjunction	5602 Oct 24 14:29	3°♏29'46	1°57'46	conjunction	5609 Jan 09 19:35	20°♏01'01	1°13'03
minimum elong	5602 Oct 24 14:27	3°♏29'45	1°57'46	minimum elong	5609 Jan 09 19:37	20°♏01'02	1°13'05
max. Earth dist.	5602 Oct 24 11:38	3°♏28'52	10.27833 AU	max. Earth dist.	5609 Jan 09 17:03	20°♏00'15	10.74246 AU
morning rise	5602 Nov 11 05:33	5°♏43'06		morning rise	5609 Jan 26 16:57	22°♏03'22	
retrograde	5603 Feb 21 05:39	13°♏30'13		retrograde	5609 May 06 17:59	29°♏16'34	
opposition	5603 Apr 29 04:44	10°♏06'01	2°31'47	opposition	5609 Jul 14 16:44	25°♏57'34	1°16'01
min. Earth dist.	5603 Apr 29 06:59	10°♏05'34	8.31162 AU	min. Earth dist.	5609 Jul 14 18:03	25°♏57'19	8.77661 AU
direct	5603 Jul 06 22:12	6°♏37'37		direct	5609 Sep 23 09:08	22°♏34'38	
evening set	5603 Oct 20 23:38	14°♏37'45		evening set	5610 Jan 05 01:14	29°♏58'48	
	5603 Oct 23 23:30	15°♏			5610 Jan 05 05:19	0°♏	
conjunction	5603 Nov 07 14:34	16°♏50'12	2°05'24	conjunction	5610 Jan 21 23:44	2°♏00'45	0°49'50
minimum elong	5603 Nov 07 14:33	16°♏50'12	2°05'24	minimum elong	5610 Jan 21 23:46	2°♏00'45	0°49'51
max. Earth dist.	5603 Nov 07 11:14	16°♏49'09	10.34506 AU	max. Earth dist.	5610 Jan 21 22:19	2°♏00'19	10.80766 AU
morning rise	5603 Nov 25 01:51	19°♏01'30		morning rise	5610 Feb 07 19:34	4°♏01'55	
retrograde	5604 Mar 05 11:34	26°♏42'17		retrograde	5610 May 19 00:07	11°♏12'14	
opposition	5604 May 11 15:42	23°♏19'04	2°36'54	opposition	5610 Jul 27 07:28	7°♏53'36	0°46'05
min. Earth dist.	5604 May 11 17:50	23°♏18'39	8.38371 AU	min. Earth dist.	5610 Jul 27 07:45	7°♏53'33	8.83582 AU
direct	5604 Jul 19 20:08	19°♏51'11		direct	5610 Oct 06 00:54	4°♏31'46	
evening set	5604 Nov 02 19:41	27°♏46'32		evening set	5611 Jan 17 02:28	11°♏50'37	
conjunction	5604 Nov 20 07:16	29°♏56'59	2°06'21	conjunction	5611 Feb 02 23:14	13°♏51'27	0°24'44
minimum elong	5604 Nov 20 07:17	29°♏56'59	2°06'21	minimum elong	5611 Feb 02 23:15	13°♏51'28	0°24'44
max. Earth dist.	5604 Nov 20 04:06	29°♏56'00	10.42143 AU	max. Earth dist.	5611 Feb 02 22:59	13°♏51'23	10.86067 AU
	5604 Nov 20 16:53	0°♏			5611 Feb 12 11:32	15°♏	
morning rise	5604 Dec 07 14:51	2°♏06'13		morning rise	5611 Feb 19 17:48	15°♏51'41	
retrograde	5605 Mar 18 11:57	9°♏40'31		retrograde	5611 May 31 04:26	23°♏00'18	
opposition	5605 May 24 23:01	6°♏18'17	2°33'49	opposition	5611 Aug 08 19:56	19°♏41'50	0°14'34
min. Earth dist.	5605 May 25 00:38	6°♏17'58	8.46326 AU	min. Earth dist.	5611 Aug 08 19:48	19°♏41'52	8.88184 AU
direct	5605 Aug 02 13:57	2°♏51'09		direct	5611 Oct 18 12:57	16°♏20'57	
evening set	5605 Nov 16 07:30	10°♏40'43		desc. node	5612 Jan 27 22:09	23°♏27'53	
				evening set	5612 Jan 28 23:59	23°♏35'27	
conjunction	5605 Dec 03 15:57	12°♏49'11	2°00'52	conjunction	5612 Feb 14 19:05	25°♏35'23	-0°01'16
minimum elong	5605 Dec 03 15:59	12°♏49'11	2°00'54				

minimum elong	5612 Feb 14 19:06	25° \approx 35'24	0°01'16	conjunction	5618 Apr 24 16:50	5° \mathfrak{B} 57'00	-2°00'16
behind sun begin	5612 Feb 14 12:06	25° \approx 33'19		minimum elong	5618 Apr 24 16:49	5° \mathfrak{B} 56'59	2°00'18
behind sun end	5612 Feb 15 02:06	25° \approx 37'28		max. Earth dist.	5618 Apr 24 17:46	5° \mathfrak{B} 57'17	10.77899 AU
max. Earth dist.	5612 Feb 14 19:02	25° \approx 35'23	10.89938 AU	morning rise	5618 May 11 13:56	7° \mathfrak{B} 58'57	
morning rise	5612 Mar 02 12:49	27° \approx 34'57			5618 Jul 30 22:37	15° \mathfrak{B}	
	5612 Mar 24 01:28	0° \mathfrak{H}		retrograde	5618 Aug 23 20:38	15° \mathfrak{B} 28'18	
retrograde	5612 Jun 11 08:28	4° \mathfrak{H} 43'05			5618 Sep 17 00:25	15° \mathfrak{R} \mathfrak{B}	
opposition	5612 Aug 20 07:06	1° \mathfrak{H} 24'34	-0°17'18	opposition	5618 Nov 02 08:17	12° \mathfrak{B} 05'20	-2°32'19
min. Earth dist.	5612 Aug 20 07:14	1° \mathfrak{H} 24'33	8.91288 AU	min. Earth dist.	5618 Nov 02 07:01	12° \mathfrak{B} 05'34	8.74560 AU
	5612 Sep 08 20:02	30° \mathfrak{R} \approx		direct	5619 Jan 10 02:42	8° \mathfrak{B} 45'51	
direct	5612 Oct 29 21:10	28° \approx 04'31			5619 Apr 11 12:49	15° \mathfrak{B}	
	5612 Dec 18 03:48	0° \mathfrak{H}		evening set	5619 Apr 20 04:27	16° \mathfrak{B} 01'09	
evening set	5613 Feb 08 18:50	5° \mathfrak{H} 15'38					
conjunction	5613 Feb 25 12:30	7° \mathfrak{H} 14'56	-0°26'59	conjunction	5619 May 07 00:36	18° \mathfrak{B} 03'35	-2°06'14
minimum elong	5613 Feb 25 12:29	7° \mathfrak{H} 14'56	0°26'59	minimum elong	5619 May 07 00:36	18° \mathfrak{B} 03'35	2°06'16
max. Earth dist.	5613 Feb 25 12:12	7° \mathfrak{H} 14'51	10.92227 AU	max. Earth dist.	5619 May 07 02:45	18° \mathfrak{B} 04'15	10.70714 AU
morning rise	5613 Mar 14 05:44	9° \mathfrak{H} 14'06		morning rise	5619 May 24 00:12	20° \mathfrak{B} 07'07	
retrograde	5613 Jun 23 10:44	16° \mathfrak{H} 23'01		retrograde	5619 Sep 05 20:13	27° \mathfrak{B} 42'37	
opposition	5613 Sep 01 17:26	13° \mathfrak{H} 04'13	-0°48'18	opposition	5619 Nov 15 03:32	24° \mathfrak{B} 18'29	-2°36'27
min. Earth dist.	5613 Sep 01 17:13	13° \mathfrak{H} 04'16	8.92759 AU	min. Earth dist.	5619 Nov 15 01:21	24° \mathfrak{B} 18'54	8.66939 AU
direct	5613 Nov 11 02:59	9° \mathfrak{H} 44'48		direct	5620 Jan 22 13:20	20° \mathfrak{B} 58'20	
evening set	5614 Feb 20 12:23	16° \mathfrak{H} 53'40		evening set	5620 May 01 15:40	28° \mathfrak{B} 17'55	
					5620 May 15 14:41	0° \mathfrak{I}	
conjunction	5614 Mar 09 05:06	18° \mathfrak{H} 52'37	-0°51'33	conjunction	5620 May 18 14:42	0° \mathfrak{I} 22'08	-2°06'33
minimum elong	5614 Mar 09 05:05	18° \mathfrak{H} 52'37	0°51'32	minimum elong	5620 May 18 14:43	0° \mathfrak{I} 22'08	2°06'34
max. Earth dist.	5614 Mar 09 05:29	18° \mathfrak{H} 52'44	10.92820 AU	max. Earth dist.	5620 May 18 17:21	0° \mathfrak{I} 22'57	10.62738 AU
morning rise	5614 Mar 25 22:06	20° \mathfrak{H} 51'39		morning rise	5620 Jun 04 17:34	2° \mathfrak{I} 27'34	
retrograde	5614 Jul 05 16:32	28° \mathfrak{H} 02'36		retrograde	5620 Sep 18 02:55	10° \mathfrak{I} 09'18	
opposition	5614 Sep 14 03:21	24° \mathfrak{H} 43'16	-1°17'16	opposition	5620 Nov 27 02:11	6° \mathfrak{I} 44'03	-2°33'24
min. Earth dist.	5614 Sep 14 02:21	24° \mathfrak{H} 43'27	8.92493 AU	min. Earth dist.	5620 Nov 26 23:40	6° \mathfrak{I} 44'32	8.58692 AU
direct	5614 Nov 23 08:58	21° \mathfrak{H} 24'17		direct	5621 Feb 03 01:59	3° \mathfrak{I} 23'03	
evening set	5615 Mar 04 05:53	28° \mathfrak{H} 32'04		evening set	5621 May 14 09:19	10° \mathfrak{I} 47'37	
	5615 Mar 16 14:33	0° \mathfrak{Y}					
conjunction	5615 Mar 20 22:08	0° \mathfrak{Y} 31'01	-1°14'00	conjunction	5621 May 31 11:55	12° \mathfrak{I} 53'54	-2°00'54
minimum elong	5615 Mar 20 22:06	0° \mathfrak{Y} 31'00	1°13'59	minimum elong	5621 May 31 11:57	12° \mathfrak{I} 53'54	2°00'55
max. Earth dist.	5615 Mar 20 23:27	0° \mathfrak{Y} 31'24	10.91622 AU	max. Earth dist.	5621 May 31 14:13	12° \mathfrak{I} 54'36	10.54333 AU
morning rise	5615 Apr 06 15:11	2° \mathfrak{Y} 30'14		morning rise	5621 Jun 17 18:47	15° \mathfrak{I} 01'29	
retrograde	5615 Jul 18 00:59	9° \mathfrak{Y} 44'21		retrograde	5621 Oct 01 12:58	22° \mathfrak{I} 49'15	
opposition	5615 Sep 26 13:54	6° \mathfrak{Y} 24'20	-1°43'08	opposition	5621 Dec 10 04:22	19° \mathfrak{I} 22'59	-2°22'56
min. Earth dist.	5615 Sep 26 12:20	6° \mathfrak{Y} 24'37	8.90412 AU	min. Earth dist.	5621 Dec 10 02:14	19° \mathfrak{I} 23'24	8.50189 AU
direct	5615 Dec 05 11:20	3° \mathfrak{Y} 05'35		direct	5622 Feb 15 19:22	16° \mathfrak{I} 00'59	
evening set	5616 Mar 15 00:40	10° \mathfrak{Y} 13'33		evening set	5622 May 27 10:13	23° \mathfrak{I} 31'11	
conjunction	5616 Mar 31 16:46	12° \mathfrak{Y} 12'48	-1°33'27	conjunction	5622 Jun 13 16:59	25° \mathfrak{I} 39'42	-1°49'16
minimum elong	5616 Mar 31 16:44	12° \mathfrak{Y} 12'48	1°33'28	minimum elong	5622 Jun 13 17:02	25° \mathfrak{I} 39'43	1°49'17
max. Earth dist.	5616 Mar 31 17:53	12° \mathfrak{Y} 13'08	10.88616 AU	max. Earth dist.	5622 Jun 13 18:43	25° \mathfrak{I} 40'14	10.45876 AU
morning rise	5616 Apr 17 10:30	14° \mathfrak{Y} 12'35		morning rise	5622 Jul 01 04:11	27° \mathfrak{I} 49'34	
retrograde	5616 Jul 29 11:19	21° \mathfrak{Y} 30'59			5622 Jul 19 13:18	0° \mathfrak{E}	
opposition	5616 Oct 08 01:54	18° \mathfrak{Y} 10'08	-2°04'53	retrograde	5622 Oct 15 02:53	5° \mathfrak{E} 42'54	
min. Earth dist.	5616 Oct 08 00:39	18° \mathfrak{Y} 10'22	8.86577 AU	opposition	5622 Dec 23 09:59	2° \mathfrak{E} 15'45	-2°05'08
direct	5616 Dec 16 14:14	14° \mathfrak{Y} 51'23		min. Earth dist.	5622 Dec 23 08:28	2° \mathfrak{E} 16'03	8.41826 AU
evening set	5617 Mar 26 22:03	22° \mathfrak{Y} 00'47			5623 Jan 23 17:19	30° \mathfrak{R} \mathfrak{I}	
				direct	5623 Feb 28 18:58	28° \mathfrak{I} 52'40	
conjunction	5617 Apr 12 14:37	24° \mathfrak{Y} 00'43	-1°49'08		5623 Apr 05 06:25	0° \mathfrak{E}	
minimum elong	5617 Apr 12 14:35	24° \mathfrak{Y} 00'43	1°49'09	evening set	5623 Jun 09 18:35	6° \mathfrak{E} 28'51	
max. Earth dist.	5617 Apr 12 15:13	24° \mathfrak{Y} 00'54	10.83958 AU				
morning rise	5617 Apr 29 09:44	26° \mathfrak{Y} 01'25		conjunction	5623 Jun 27 05:56	8° \mathfrak{E} 39'44	-1°31'55
	5617 Jun 05 04:33	0° \mathfrak{B}		minimum elong	5623 Jun 27 05:59	8° \mathfrak{E} 39'45	1°31'55
retrograde	5617 Aug 11 02:16	3° \mathfrak{B} 24'59		max. Earth dist.	5623 Jun 27 07:53	8° \mathfrak{E} 40'21	10.37770 AU
opposition	5617 Oct 20 15:53	0° \mathfrak{B} 03'08	-2°21'34	morning rise	5623 Jul 14 21:28	10° \mathfrak{E} 51'54	
min. Earth dist.	5617 Oct 20 14:55	0° \mathfrak{B} 03'19	8.81206 AU	retrograde	5623 Oct 28 21:42	18° \mathfrak{E} 50'02	
	5617 Oct 21 08:29	30° \mathfrak{R} \mathfrak{Y}		opposition	5624 Jan 05 19:12	15° \mathfrak{E} 22'12	-1°40'31
direct	5617 Dec 28 19:33	26° \mathfrak{Y} 44'08		min. Earth dist.	5624 Jan 05 17:37	15° \mathfrak{E} 22'31	8.34019 AU
	5618 Mar 02 17:13	0° \mathfrak{B}		direct	5624 Mar 12 23:15	11° \mathfrak{E} 58'00	
evening set	5618 Apr 07 22:53	3° \mathfrak{B} 55'59		evening set	5624 Jun 22 10:34	19° \mathfrak{E} 40'18	

conjunction	5624 Jul 10 02:29	21°  53'27	-1°09'28	min. Earth dist.	5630 Mar 27 02:41	7°  08'42	8.18327 AU
minimum elong	5624 Jul 10 02:32	21°  53'28	1°09'28	direct	5630 Jun 02 19:34	3°  40'15	
max. Earth dist.	5624 Jul 10 04:49	21°  54'12	10.30423 AU	evening set	5630 Sep 16 05:25	11°  46'21	
morning rise	5624 Jul 27 22:00	24°  07'46					
	5624 Sep 21 01:43	0°  ♊		conjunction	5630 Oct 04 04:04	14°  03'02	1°35'04
retrograde	5624 Nov 10 21:11	2°  ♊09'44		minimum elong	5630 Oct 04 04:01	14°  03'01	1°35'04
	5625 Jan 01 15:52	30°  ♊		max. Earth dist.	5630 Oct 04 03:03	14°  02'42	10.20079 AU
opposition	5625 Jan 18 07:37	28°  ♊41'25	-1°10'06	morning rise	5630 Oct 22 00:36	16°  01'05	
min. Earth dist.	5625 Jan 18 05:49	28°  ♊41'47	8.27174 AU	retrograde	5631 Feb 01 23:53	24°  01'50	
direct	5625 Mar 26 07:55	25°  ♊16'07		opposition	5631 Apr 09 20:23	20°  49'31	2°09'33
	5625 Jun 10 10:26	0°  ♊		min. Earth dist.	5631 Apr 09 20:32	20°  49'29	8.22454 AU
evening set	5625 Jul 06 10:16	3°  ♊04'27		direct	5631 Jun 16 22:47	17°  42'03	
				evening set	5631 Sep 30 18:17	25°  42'08	
conjunction	5625 Jul 24 06:13	5°  ♊19'38	-0°42'57				
minimum elong	5625 Jul 24 06:15	5°  ♊19'38	0°42'58	conjunction	5631 Oct 18 14:13	27°  41'21	1°52'02
max. Earth dist.	5625 Jul 24 08:31	5°  ♊20'22	10.24225 AU	minimum elong	5631 Oct 18 14:11	27°  41'21	1°52'02
morning rise	5625 Aug 11 04:59	7°  ♊35'44		max. Earth dist.	5631 Oct 18 13:26	27°  41'06	10.25048 AU
	5625 Oct 28 09:34	15°  ♊		morning rise	5631 Nov 05 07:03	29°  45'39	
retrograde	5625 Nov 24 22:46	15°  ♊40'14			5631 Nov 05 21:01	0°  ♋	
	5625 Dec 22 13:35	15°  ♋		retrograde	5632 Feb 15 15:33	7°  ♋46'03	
opposition	5626 Jan 31 22:44	12°  ♋11'44	-0°35'21	opposition	5632 Apr 22 12:18	4°  ♋21'39	2°26'36
min. Earth dist.	5626 Jan 31 20:56	12°  ♋12'06	8.21672 AU	min. Earth dist.	5632 Apr 22 12:43	4°  ♋21'34	8.28242 AU
direct	5626 Apr 08 21:46	8°  ♋45'25		direct	5632 Jun 29 23:31	0°  ♋53'30	
	5626 Jul 07 03:34	15°  ♋		evening set	5632 Oct 14 01:46	8°  ♋55'49	
evening set	5626 Jul 20 16:45	16°  ♋39'26					
conjunction	5626 Aug 07 15:46	18°  ♋56'10	-0°13'47	conjunction	5632 Oct 31 18:27	11°  ♋09'14	2°02'38
minimum elong	5626 Aug 07 15:46	18°  ♋56'11	0°13'48	minimum elong	5632 Oct 31 18:25	11°  ♋09'13	2°02'39
behind sun begin	5626 Aug 07 12:06	18°  ♋55'01		max. Earth dist.	5632 Oct 31 17:22	11°  ♋08'53	10.31516 AU
behind sun end	5626 Aug 07 19:27	18°  ♋57'20		morning rise	5632 Nov 18 07:21	13°  ♋21'31	
max. Earth dist.	5626 Aug 07 17:21	18°  ♋56'41	10.19535 AU		5632 Dec 01 20:26	15°  ♋	
morning rise	5626 Aug 25 16:44	21°  ♋13'34		retrograde	5633 Feb 28 01:49	21°  ♋05'38	
retrograde	5626 Dec 09 01:48	29°  ♋19'15		opposition	5633 May 06 01:29	17°  ♋42'22	2°35'25
asc. node	5627 Jan 27 19:44	27°  ♋15'42		min. Earth dist.	5633 May 06 02:35	17°  ♋42'09	8.35323 AU
opposition	5627 Feb 14 16:17	25°  ♋50'51	0°01'46		5633 Jun 14 04:28	15°  ♋	
min. Earth dist.	5627 Feb 14 15:04	25°  ♋51'06	8.17847 AU	direct	5633 Jul 13 22:58	14°  ♋14'43	
direct	5627 Apr 22 15:58	22°  ♋23'38			5633 Aug 12 15:50	15°  ♋	
	5627 Aug 01 04:12	0°  ♋		evening set	5633 Oct 28 02:07	22°  ♋12'43	
evening set	5627 Aug 04 04:30	0°  ♋22'34					
conjunction	5627 Aug 22 05:22	2°  ♋40'18	0°16'28	conjunction	5633 Nov 14 15:15	24°  ♋24'07	2°06'33
minimum elong	5627 Aug 22 05:21	2°  ♋40'18	0°16'27	minimum elong	5633 Nov 14 15:15	24°  ♋24'07	2°06'34
max. Earth dist.	5627 Aug 22 05:53	2°  ♋40'28	10.16646 AU	max. Earth dist.	5633 Nov 14 13:26	24°  ♋23'32	10.39071 AU
morning rise	5627 Sep 09 07:16	4°  ♋58'22		morning rise	5633 Dec 02 00:21	26°  ♋34'18	
retrograde	5627 Dec 23 05:03	13°  ♋03'46			5633 Dec 31 16:14	0°  ♌	
opposition	5628 Feb 28 11:22	9°  ♋35'45	0°39'04	retrograde	5634 Mar 13 04:42	4°  ♌11'49	
min. Earth dist.	5628 Feb 28 10:58	9°  ♋35'50	8.15952 AU	opposition	5634 May 19 11:13	0°  ♌49'38	2°35'55
direct	5628 May 05 13:52	6°  ♋07'50		min. Earth dist.	5634 May 19 13:17	0°  ♌49'14	8.43244 AU
evening set	5628 Aug 17 20:08	14°  ♋10'39			5634 May 30 00:53	30°  ♋	
				direct	5634 Jul 27 19:52	27°  ♋22'38	
conjunction	5628 Sep 04 21:30	16°  ♋28'42	0°45'50	evening set	5634 Sep 22 21:04	0°  ♌	
minimum elong	5628 Sep 04 21:28	16°  ♋28'41	0°45'49		5634 Nov 10 18:18	5°  ♌15'09	
max. Earth dist.	5628 Sep 04 21:05	16°  ♋28'34	10.15752 AU	conjunction	5634 Nov 28 04:02	7°  ♌24'30	2°03'52
morning rise	5628 Sep 22 22:56	18°  ♋46'45		minimum elong	5634 Nov 28 04:03	7°  ♌24'30	2°03'54
retrograde	5629 Jan 05 06:49	26°  ♋50'19		max. Earth dist.	5634 Nov 28 00:56	7°  ♌23'32	10.47229 AU
opposition	5629 Mar 13 06:55	23°  ♋22'58	1°14'12	morning rise	5634 Dec 15 09:46	9°  ♌32'38	
min. Earth dist.	5629 Mar 13 07:11	23°  ♋22'54	8.16114 AU	retrograde	5635 Mar 26 02:46	17°  ♌03'39	
direct	5629 May 19 15:46	19°  ♋54'35		opposition	5635 Jun 01 17:01	13°  ♌42'28	2°28'31
evening set	5629 Sep 01 13:18	27°  ♋59'54		min. Earth dist.	5635 Jun 01 19:36	13°  ♌41'58	8.51493 AU
	5629 Sep 17 07:05	0°  ♌		direct	5635 Aug 10 11:37	10°  ♌16'17	
conjunction	5629 Sep 19 13:54	0°  ♌17'35	1°12'35	evening set	5635 Nov 24 02:01	18°  ♌02'39	
minimum elong	5629 Sep 19 13:51	0°  ♌17'34	1°12'34				
max. Earth dist.	5629 Sep 19 12:51	0°  ♌17'14	10.16918 AU	conjunction	5635 Dec 11 08:44	20°  ♌10'05	1°55'03
morning rise	5629 Oct 07 13:27	2°  ♌34'55		minimum elong	5635 Dec 11 08:46	20°  ♌10'05	1°55'05
retrograde	5630 Jan 19 04:51	10°  ♌35'17		max. Earth dist.	5635 Dec 11 04:56	20°  ♌08'54	10.55473 AU
opposition	5630 Mar 27 02:16	7°  ♌08'47	1°44'59	morning rise	5635 Dec 28 11:32	22°  ♌16'19	
				retrograde	5636 Apr 06 20:55	29°  ♌41'23	
				opposition	5636 Jun 13 19:08	26°  ♌21'06	2°13'59

min. Earth dist.	5636 Jun 13 21:36	26°  20'37	8.59588 AU	conjunction	5642 Feb 20 22:15	2°  33'51	-0°16'13
direct	5636 Aug 22 21:33	22°  55'53		minimum elong	5642 Feb 20 22:15	2°  33'50	0°16'13
	5636 Dec 01 01:33	0°  3		behind sun begin	5642 Feb 20 21:50	2°  33'43	
evening set	5636 Dec 06 01:43	0°  35'50		behind sun end	5642 Feb 20 22:40	2°  33'58	
				max. Earth dist.	5642 Feb 20 21:53	2°  33'44	10.89189 AU
conjunction	5636 Dec 23 05:47	2°  341'31	1°40'51	morning rise	5642 Mar 09 15:43	4°  33'25	
minimum elong	5636 Dec 23 05:49	2°  341'32	1°40'53	retrograde	5642 Jun 18 17:02	11°  42'47	
max. Earth dist.	5636 Dec 23 02:22	2°  340'28	10.63396 AU	opposition	5642 Aug 27 19:38	8°  23'33	-0°35'26
morning rise	5637 Jan 09 05:58	4°  346'04		min. Earth dist.	5642 Aug 27 19:23	8°  23'36	8.89906 AU
retrograde	5637 Apr 19 10:06	12°  305'56		direct	5642 Nov 06 07:59	5°  303'16	
opposition	5637 Jun 26 17:47	8°  346'24	1°53'25	evening set	5643 Feb 15 22:19	12°  313'55	
min. Earth dist.	5637 Jun 26 19:55	8°  345'59	8.67211 AU				
direct	5637 Sep 05 03:11	5°  322'11		conjunction	5643 Mar 04 15:39	14°  313'18	-0°41'26
evening set	5637 Dec 18 18:00	12°  355'46		minimum elong	5643 Mar 04 15:37	14°  313'17	0°41'25
				max. Earth dist.	5643 Mar 04 15:44	14°  313'19	10.90208 AU
conjunction	5638 Jan 04 19:43	14°  359'52	1°22'10	morning rise	5643 Mar 21 08:43	16°  312'38	
minimum elong	5638 Jan 04 19:45	14°  359'52	1°22'12	retrograde	5643 Jun 30 22:02	23°  323'30	
max. Earth dist.	5638 Jan 04 17:00	14°  359'02	10.70722 AU	opposition	5643 Sep 09 06:09	20°  303'46	-1°05'28
morning rise	5638 Jan 21 17:46	17°  302'56		min. Earth dist.	5643 Sep 09 05:48	20°  303'50	8.90151 AU
retrograde	5638 May 01 21:06	24°  318'30		direct	5643 Nov 18 13:26	16°  343'54	
opposition	5638 Jul 09 13:20	20°  359'28	1°28'03	evening set	5644 Feb 27 16:20	23°  353'03	
min. Earth dist.	5638 Jul 09 15:33	20°  359'03	8.74113 AU				
direct	5638 Sep 18 02:53	17°  336'13		conjunction	5644 Mar 15 08:45	25°  352'15	-1°04'56
evening set	5638 Dec 31 03:39	25°  303'42		minimum elong	5644 Mar 15 08:43	25°  352'14	1°04'55
				max. Earth dist.	5644 Mar 15 08:47	25°  352'16	10.89633 AU
conjunction	5639 Jan 17 03:10	27°  306'25	1°00'04	morning rise	5644 Apr 01 01:55	27°  351'40	
minimum elong	5639 Jan 17 03:11	27°  306'25	1°00'05		5644 Apr 19 23:39	0°  3	
max. Earth dist.	5639 Jan 17 00:24	27°  305'35	10.77193 AU	retrograde	5644 Jul 12 04:19	5°  305'13	
morning rise	5639 Feb 02 23:39	29°  308'15		opposition	5644 Sep 20 17:07	1°  344'50	-1°32'51
	5639 Feb 10 08:06	0°  3		min. Earth dist.	5644 Sep 20 16:33	1°  344'56	8.88809 AU
retrograde	5639 May 14 04:17	6°  320'28			5644 Oct 15 07:38	30°  338	
opposition	5639 Jul 22 06:00	3°  301'45	0°59'10	direct	5644 Nov 29 17:30	28°  325'16	
min. Earth dist.	5639 Jul 22 08:27	3°  301'17	8.80037 AU		5645 Jan 12 18:13	0°  3	
	5639 Sep 10 07:47	30°  338		evening set	5645 Mar 10 10:47	5°  334'01	
direct	5639 Sep 30 21:14	29°  339'23					
	5639 Oct 21 09:08	0°  3		conjunction	5645 Mar 27 02:55	7°  333'22	-1°25'48
evening set	5640 Jan 12 07:49	7°  301'20		minimum elong	5645 Mar 27 02:53	7°  333'22	1°25'47
				max. Earth dist.	5645 Mar 27 03:47	7°  333'38	10.87480 AU
conjunction	5640 Jan 29 05:19	9°  302'51	0°35'36	morning rise	5645 Apr 12 20:33	9°  333'10	
minimum elong	5640 Jan 29 05:20	9°  302'51	0°35'36	retrograde	5645 Jul 24 13:15	16°  3350'32	
max. Earth dist.	5640 Jan 29 02:22	9°  301'57	10.82555 AU	opposition	5645 Oct 03 04:58	13°  3329'21	-1°56'29
morning rise	5640 Feb 15 00:36	11°  303'41		min. Earth dist.	5645 Oct 03 03:21	13°  3329'39	8.85918 AU
	5640 Mar 22 12:32	15°  3		direct	5645 Dec 11 22:14	10°  3309'56	
retrograde	5640 May 25 07:43	18°  3013'43		evening set	5646 Mar 22 07:15	17°  3319'27	
	5640 Aug 01 17:42	15°  338					
opposition	5640 Aug 02 20:07	14°  3055'03	0°28'06	conjunction	5646 Apr 07 23:47	19°  3319'19	-1°43'10
min. Earth dist.	5640 Aug 02 22:05	14°  3054'40	8.84752 AU	minimum elong	5646 Apr 07 23:45	19°  3319'19	1°43'10
direct	5640 Oct 12 13:21	11°  3033'27		max. Earth dist.	5646 Apr 08 02:08	19°  3320'02	10.83817 AU
	5640 Dec 18 16:34	15°  3		morning rise	5646 Apr 24 18:18	21°  3319'49	
evening set	5641 Jan 23 07:26	18°  3050'41		retrograde	5646 Aug 06 03:58	28°  3341'52	
				opposition	5646 Oct 15 18:14	25°  3319'48	-2°15'25
conjunction	5641 Feb 09 03:19	20°  3051'13	0°09'52	min. Earth dist.	5646 Oct 15 15:34	25°  3320'19	8.81576 AU
minimum elong	5641 Feb 09 03:19	20°  3051'13	0°09'52	direct	5646 Dec 24 03:01	22°  3300'23	
behind sun begin	5641 Feb 08 21:34	20°  3049'31		evening set	5647 Apr 03 06:54	29°  3311'46	
behind sun end	5641 Feb 09 09:04	20°  3052'56			5647 Apr 10 00:22	0°  3	
max. Earth dist.	5641 Feb 09 01:16	20°  3050'37	10.86606 AU				
morning rise	5641 Feb 25 21:35	22°  3051'17		conjunction	5647 Apr 20 00:22	1°  3312'30	-1°56'17
	5641 Jun 03 18:59	0°  3		minimum elong	5647 Apr 20 00:21	1°  3312'30	1°56'18
retrograde	5641 Jun 06 12:39	0°  300'23		max. Earth dist.	5647 Apr 20 03:20	1°  3313'24	10.78784 AU
	5641 Jun 09 06:20	30°  338		morning rise	5647 May 06 20:28	3°  3314'04	
desc. node	5641 Jul 01 01:14	29°  3030'59		retrograde	5647 Aug 18 21:39	10°  3341'29	
opposition	5641 Aug 15 08:29	26°  3041'31	-0°03'50	opposition	5647 Oct 28 09:55	7°  3318'31	-2°28'43
min. Earth dist.	5641 Aug 15 09:07	26°  3041'24	8.88084 AU	min. Earth dist.	5647 Oct 28 06:51	7°  3319'06	8.75953 AU
direct	5641 Oct 25 01:05	23°  3020'38		direct	5648 Jan 05 07:43	3°  3358'54	
	5642 Jan 30 06:53	0°  3		evening set	5648 Apr 14 10:39	11°  3313'11	
evening set	5642 Feb 04 03:43	0°  3034'01					
				conjunction	5648 May 01 05:43	13°  3315'07	-2°04'26

minimum elong	5648 May 01 05:42	13°♄15'06	2°04'28	minimum elong	5654 Jul 18 17:35	29°♄59'42	0°54'13
max. Earth dist.	5648 May 01 08:26	13°♄15'56	10.72597 AU		5654 Jul 18 18:31	0°♄	
	5648 May 15 15:46	15°♄		max. Earth dist.	5654 Jul 18 19:21	0°♄00'16	10.28757 AU
morning rise	5648 May 18 04:14	15°♄18'05		morning rise	5654 Aug 05 14:59	2°♄14'49	
retrograde	5648 Aug 30 19:27	22°♄51'24		retrograde	5654 Nov 19 11:45	10°♄17'33	
opposition	5648 Nov 09 04:29	19°♄27'30	-2°35'37	opposition	5655 Jan 26 15:53	6°♄49'49	-0°50'00
min. Earth dist.	5648 Nov 09 01:42	19°♄28'02	8.69293 AU	min. Earth dist.	5655 Jan 26 14:43	6°♄50'03	8.25962 AU
direct	5649 Jan 16 17:00	16°♄07'29		direct	5655 Apr 03 15:07	3°♄24'36	
evening set	5649 Apr 26 19:43	23°♄25'34		evening set	5655 Jul 15 02:44	11°♄15'27	
conjunction	5649 May 13 17:19	25°♄29'05	-2°07'06	conjunction	5655 Aug 02 00:18	13°♄31'17	-0°26'01
minimum elong	5649 May 13 17:19	25°♄29'05	2°07'08	minimum elong	5655 Aug 02 00:19	13°♄31'17	0°26'01
max. Earth dist.	5649 May 13 20:19	25°♄30'00	10.65529 AU	max. Earth dist.	5655 Aug 02 01:09	13°♄31'33	10.23479 AU
morning rise	5649 May 30 18:53	27°♄33'47			5655 Aug 13 15:41	15°♄	
	5649 Jun 20 21:50	0°♄		morning rise	5655 Aug 20 00:27	15°♄47'54	
retrograde	5649 Sep 12 22:52	5°♄13'11		retrograde	5655 Dec 03 12:51	23°♄52'24	
opposition	5649 Nov 22 02:00	1°♄48'23	-2°35'30	opposition	5656 Feb 09 08:03	20°♄24'38	-0°13'42
min. Earth dist.	5649 Nov 21 23:10	1°♄48'55	8.61896 AU	min. Earth dist.	5656 Feb 09 07:26	20°♄24'45	8.21365 AU
	5649 Dec 16 19:01	30°♄		direct	5656 Apr 16 07:49	16°♄58'26	
direct	5650 Jan 29 05:20	28°♄27'47		asc. node	5656 Jun 27 00:46	21°♄13'30	
	5650 Mar 12 11:17	0°♄		evening set	5656 Jul 28 11:53	24°♄54'32	
evening set	5650 May 09 10:49	5°♄50'27		conjunction	5656 Aug 15 12:01	27°♄11'39	0°04'00
conjunction	5650 May 26 11:52	7°♄55'51	-2°03'54	minimum elong	5656 Aug 15 12:01	27°♄11'39	0°04'00
minimum elong	5650 May 26 11:53	7°♄55'52	2°03'56	behind sun begin	5656 Aug 15 04:47	27°♄09'22	
max. Earth dist.	5650 May 26 15:45	7°♄57'03	10.57893 AU	behind sun end	5656 Aug 15 19:14	27°♄13'56	
morning rise	5650 Jun 12 17:01	10°♄02'32		max. Earth dist.	5656 Aug 15 12:36	27°♄11'49	10.19674 AU
retrograde	5650 Sep 26 06:58	17°♄47'56		morning rise	5656 Sep 02 13:36	29°♄29'14	
opposition	5650 Dec 05 02:54	14°♄22'17	-2°28'02		5656 Sep 06 16:35	0°♄	
min. Earth dist.	5650 Dec 04 23:33	14°♄22'56	8.54087 AU	retrograde	5656 Dec 16 15:41	7°♄34'07	
direct	5651 Feb 10 21:48	11°♄01'00		opposition	5657 Feb 22 01:59	4°♄06'31	0°23'43
evening set	5651 May 22 08:48	18°♄28'51		min. Earth dist.	5657 Feb 22 01:25	4°♄06'37	8.18429 AU
conjunction	5651 Jun 08 13:50	20°♄36'23	-1°54'41	direct	5657 Apr 30 03:43	0°♄39'27	
minimum elong	5651 Jun 08 13:52	20°♄36'23	1°54'42	evening set	5657 Aug 12 01:42	8°♄39'55	
max. Earth dist.	5651 Jun 08 18:29	20°♄37'49	10.50033 AU	conjunction	5657 Aug 30 03:01	10°♄57'40	0°33'50
morning rise	5651 Jun 25 22:59	22°♄45'12		minimum elong	5657 Aug 30 03:00	10°♄57'40	0°33'49
	5651 Sep 13 03:39	0°♄		max. Earth dist.	5657 Aug 30 03:09	10°♄57'43	10.17657 AU
retrograde	5651 Oct 09 20:15	0°♄36'15		morning rise	5657 Sep 17 04:34	13°♄15'33	
	5651 Nov 05 17:00	30°♄		retrograde	5657 Dec 30 18:27	21°♄19'18	
opposition	5651 Dec 18 07:18	27°♄09'50	-2°13'09	opposition	5658 Mar 07 20:50	17°♄52'04	0°59'57
min. Earth dist.	5651 Dec 18 03:28	27°♄10'35	8.46232 AU	min. Earth dist.	5658 Mar 07 20:38	17°♄52'07	8.17407 AU
direct	5652 Feb 23 18:53	23°♄47'44		direct	5658 May 14 02:46	14°♄24'18	
	5652 May 23 08:30	0°♄		evening set	5658 Aug 26 17:54	22°♄27'54	
evening set	5652 Jun 03 14:13	1°♄21'09		conjunction	5658 Sep 13 18:58	24°♄45'35	1°01'50
conjunction	5652 Jun 20 23:36	3°♄30'56	-1°39'36	minimum elong	5658 Sep 13 18:55	24°♄45'34	1°01'50
minimum elong	5652 Jun 20 23:39	3°♄30'57	1°39'37	max. Earth dist.	5658 Sep 13 18:23	24°♄45'24	10.17612 AU
max. Earth dist.	5652 Jun 21 03:56	3°♄32'17	10.42330 AU	morning rise	5658 Oct 01 19:08	27°♄03'04	
morning rise	5652 Jul 08 13:05	5°♄42'00			5658 Oct 26 10:23	0°♄	
retrograde	5652 Oct 22 14:47	13°♄37'56		retrograde	5659 Jan 13 18:02	5°♄04'14	
opposition	5652 Dec 30 15:07	10°♄10'54	-1°51'14	opposition	5659 Mar 21 15:53	1°♄37'35	1°32'44
min. Earth dist.	5652 Dec 30 11:42	10°♄11'35	8.38713 AU	min. Earth dist.	5659 Mar 21 16:22	1°♄37'29	8.18398 AU
direct	5653 Mar 07 19:41	6°♄47'50			5659 Apr 11 10:30	30°♄	
evening set	5653 Jun 17 03:12	14°♄27'03		direct	5659 May 28 05:06	28°♄09'18	
conjunction	5653 Jul 04 17:01	16°♄39'04	-1°19'09		5659 Jul 13 08:44	0°♄	
minimum elong	5653 Jul 04 17:04	16°♄39'05	1°19'10	evening set	5659 Sep 10 09:59	6°♄14'26	
max. Earth dist.	5653 Jul 04 20:10	16°♄40'04	10.35140 AU	conjunction	5659 Sep 28 09:31	8°♄31'25	1°26'15
morning rise	5653 Jul 22 10:48	18°♄52'19		minimum elong	5659 Sep 28 09:28	8°♄31'24	1°26'15
retrograde	5653 Nov 05 12:58	26°♄52'09		max. Earth dist.	5659 Sep 28 08:00	8°♄30'56	10.19561 AU
opposition	5654 Jan 13 02:08	23°♄24'41	-1°23'05	morning rise	5659 Oct 16 07:16	10°♄47'52	
min. Earth dist.	5654 Jan 12 23:51	23°♄25'08	8.31859 AU	retrograde	5660 Jan 27 13:50	18°♄45'07	
direct	5654 Mar 21 01:57	20°♄00'31		opposition	5660 Apr 03 10:01	15°♄19'14	2°00'04
evening set	5654 Jun 30 23:33	27°♄45'37		min. Earth dist.	5660 Apr 03 11:29	15°♄18'56	8.21338 AU
conjunction	5654 Jul 18 17:33	29°♄59'42	-0°54'13	direct	5660 Jun 10 08:00	11°♄50'41	
				evening set	5660 Sep 23 23:52	19°♄55'38	

conjunction	5660 Oct 11 20:54	22° $\underline{\text{A}}$ 11'22	1°45'38	conjunction	5666 Dec 30 17:29	9° Z 53'40	1°30'52
minimum elong	5660 Oct 11 20:51	22° $\underline{\text{A}}$ 11'21	1°45'38	minimum elong	5666 Dec 30 17:32	9° Z 53'41	1°30'55
max. Earth dist.	5660 Oct 11 18:10	22° $\underline{\text{A}}$ 10'30	10.23377 AU	max. Earth dist.	5666 Dec 30 14:30	9° Z 52'45	10.67594 AU
morning rise	5660 Oct 29 15:22	24° $\underline{\text{A}}$ 26'18		morning rise	5667 Jan 16 16:36	11° Z 57'17	
	5660 Dec 19 19:36	0° M		retrograde	5667 Apr 26 17:50	19° Z 13'59	
retrograde	5661 Feb 09 05:28	2° M 18'29		opposition	5667 Jul 04 07:54	15° Z 54'25	1°39'44
	5661 Apr 03 02:47	30° R $\underline{\text{A}}$		min. Earth dist.	5667 Jul 04 09:47	15° Z 54'04	8.71395 AU
opposition	5661 Apr 17 02:12	28° $\underline{\text{A}}$ 53'29	2°20'24	direct	5667 Sep 12 21:03	12° Z 30'25	
min. Earth dist.	5661 Apr 17 04:15	28° $\underline{\text{A}}$ 53'04	8.26033 AU	evening set	5667 Dec 26 02:34	19° Z 59'54	
direct	5661 Jun 24 10:14	25° $\underline{\text{A}}$ 24'55					
	5661 Sep 08 17:17	0° M		conjunction	5668 Jan 12 02:59	22° Z 03'05	1°10'11
evening set	5661 Oct 08 09:05	3° M 27'58		minimum elong	5668 Jan 12 03:01	22° Z 03'05	1°10'13
				max. Earth dist.	5668 Jan 12 00:40	22° Z 02'22	10.74899 AU
conjunction	5661 Oct 26 03:01	5° M 42'03	1°59'00	morning rise	5668 Jan 29 00:15	24° Z 05'19	
minimum elong	5661 Oct 26 02:59	5° M 42'02	1°59'00		5668 Mar 29 18:43	0° \approx	
max. Earth dist.	5661 Oct 25 23:47	5° M 41'01	10.28819 AU	retrograde	5668 May 08 01:41	1° \approx 18'09	
morning rise	5661 Nov 12 17:45	7° M 55'08			5668 Jun 17 10:07	30° R Z	
	5662 Jan 26 03:14	15° M		opposition	5668 Jul 16 00:50	27° Z 59'07	1°12'17
retrograde	5662 Feb 22 16:07	15° M 41'26		min. Earth dist.	5668 Jul 16 01:43	27° Z 58'57	8.78212 AU
	5662 Mar 22 11:04	15° R M		direct	5668 Sep 24 17:07	24° Z 36'15	
opposition	5662 Apr 30 15:54	12° M 17'22	2°32'46		5668 Dec 19 21:08	0° \approx	
min. Earth dist.	5662 Apr 30 17:51	12° M 16'59	8.32187 AU	evening set	5669 Jan 06 08:11	1° \approx 59'52	
direct	5662 Jul 08 10:59	8° M 49'05					
	5662 Oct 07 10:35	15° M		conjunction	5669 Jan 23 06:39	4° \approx 01'44	0°46'40
evening set	5662 Oct 22 11:37	16° M 48'33		minimum elong	5669 Jan 23 06:41	4° \approx 01'44	0°46'41
				max. Earth dist.	5669 Jan 23 05:39	4° \approx 01'26	10.81215 AU
conjunction	5662 Nov 09 02:15	19° M 00'45	2°05'47	morning rise	5669 Feb 09 02:19	6° \approx 02'49	
minimum elong	5662 Nov 09 02:14	19° M 00'44	2°05'47	retrograde	5669 May 20 07:26	13° \approx 12'57	
max. Earth dist.	5662 Nov 08 23:17	18° M 59'48	10.35559 AU	opposition	5669 Jul 28 15:18	9° \approx 54'17	0°42'05
morning rise	5662 Nov 26 13:08	21° M 11'48		min. Earth dist.	5669 Jul 28 15:50	9° \approx 54'11	8.83920 AU
retrograde	5663 Mar 07 21:04	28° M 51'47		direct	5669 Oct 07 08:49	6° \approx 32'29	
opposition	5663 May 14 02:22	25° M 28'41	2°36'49	evening set	5670 Jan 18 09:03	13° \approx 50'58	
min. Earth dist.	5663 May 14 04:01	25° M 28'22	8.39436 AU		5670 Jan 28 01:23	15° \approx	
direct	5663 Jul 22 08:29	22° M 00'55					
evening set	5663 Nov 05 06:41	29° M 55'30		conjunction	5670 Feb 04 05:40	15° \approx 51'44	0°21'25
	5663 Nov 05 21:23	0° Z		minimum elong	5670 Feb 04 05:41	15° \approx 51'45	0°21'25
				max. Earth dist.	5670 Feb 04 04:59	15° \approx 51'32	10.86294 AU
conjunction	5663 Nov 22 18:03	2° Z 05'43	2°05'53	morning rise	5670 Feb 21 00:12	17° \approx 51'56	
minimum elong	5663 Nov 22 18:04	2° Z 05'43	2°05'54	retrograde	5670 Jun 01 12:04	25° \approx 00'31	
max. Earth dist.	5663 Nov 22 15:33	2° Z 04'56	10.43213 AU	opposition	5670 Aug 10 03:44	21° \approx 42'02	0°10'27
morning rise	5663 Dec 10 01:14	4° Z 14'42		min. Earth dist.	5670 Aug 10 04:22	21° \approx 41'54	8.88303 AU
retrograde	5664 Mar 19 22:04	11° Z 48'13		direct	5670 Oct 19 19:38	18° \approx 21'10	
opposition	5664 May 26 09:10	8° Z 26'06	2°32'45	desc. node	5670 Dec 11 17:12	20° \approx 33'03	
min. Earth dist.	5664 May 26 10:53	8° Z 25'46	8.47380 AU	evening set	5671 Jan 30 06:16	25° \approx 35'26	
direct	5664 Aug 04 00:27	4° Z 59'03					
evening set	5664 Nov 17 17:36	12° Z 47'48		conjunction	5671 Feb 16 01:15	27° \approx 35'21	-0°04'38
				minimum elong	5671 Feb 16 01:14	27° \approx 35'21	0°04'38
conjunction	5664 Dec 05 01:48	14° Z 56'04	1°59'39	behind sun begin	5671 Feb 15 18:22	27° \approx 33'19	
minimum elong	5664 Dec 05 01:49	14° Z 56'04	1°59'40	behind sun end	5671 Feb 16 08:05	27° \approx 37'23	
max. Earth dist.	5664 Dec 04 23:29	14° Z 55'21	10.51370 AU	max. Earth dist.	5671 Feb 16 00:17	27° \approx 35'05	10.89943 AU
morning rise	5664 Dec 22 05:43	17° Z 03'04		morning rise	5671 Mar 04 19:03	29° \approx 34'55	
retrograde	5665 Apr 01 17:52	24° Z 30'20			5671 Mar 08 09:03	0° H	
opposition	5665 Jun 08 12:26	21° Z 09'10	2°21'11	retrograde	5671 Jun 13 14:14	6° H 43'12	
min. Earth dist.	5665 Jun 08 14:41	21° Z 08'44	8.55616 AU	opposition	5671 Aug 22 14:46	3° H 24'38	-0°21'21
direct	5665 Aug 17 11:32	17° Z 43'02		min. Earth dist.	5671 Aug 22 15:13	3° H 24'33	8.91183 AU
evening set	5665 Nov 30 20:07	25° Z 25'23		direct	5671 Nov 01 04:20	0° H 04'35	
				evening set	5672 Feb 11 01:05	7° H 15'41	
conjunction	5665 Dec 18 01:20	27° Z 31'46	1°47'42				
minimum elong	5665 Dec 18 01:22	27° Z 31'47	1°47'44	conjunction	5672 Feb 27 18:44	9° H 14'59	-0°30'14
max. Earth dist.	5665 Dec 17 22:34	27° Z 30'55	10.59628 AU	minimum elong	5672 Feb 27 18:43	9° H 14'59	0°30'14
morning rise	5666 Jan 04 02:36	29° Z 37'00		max. Earth dist.	5672 Feb 27 18:27	9° H 14'54	10.92009 AU
	5666 Jan 07 07:15	0° Z		morning rise	5672 Mar 15 11:58	11° H 14'10	
retrograde	5666 Apr 14 07:11	6° Z 58'34		retrograde	5672 Jun 24 18:35	18° H 23'27	
opposition	5666 Jun 21 12:02	3° Z 38'17	2°03'08	opposition	5672 Sep 03 01:03	15° H 04'34	-0°52'09
min. Earth dist.	5666 Jun 21 14:24	3° Z 37'49	8.63747 AU	min. Earth dist.	5672 Sep 03 00:24	15° H 04'41	8.92436 AU
direct	5666 Aug 30 19:00	0° Z 13'10		direct	5672 Nov 12 11:44	11° H 45'09	
evening set	5666 Dec 13 14:53	7° Z 48'59		evening set	5673 Feb 21 18:45	18° H 54'08	

conjunction	5673 Mar 10 11:32	20° Υ 53'09	-0°54'33		5679 Apr 30 10:59	0° Π	
minimum elong	5673 Mar 10 11:30	20° Υ 53'08	0°54'33	evening set	5679 May 04 01:34	0° Π 25'55	
max. Earth dist.	5673 Mar 10 12:32	20° Υ 53'27	10.92398 AU				
morning rise	5673 Mar 27 04:26	22° Υ 52'14		conjunction	5679 May 21 00:52	2° Π 30'22	-2°06'02
	5673 Jun 28 10:50	0° Υ		minimum elong	5679 May 21 00:52	2° Π 30'22	2°06'04
retrograde	5673 Jul 07 01:19	0° Υ 03'40		max. Earth dist.	5679 May 21 02:50	2° Π 30'58	10.61705 AU
	5673 Jul 15 15:38	30° \Re Υ		morning rise	5679 Jun 07 04:10	4° Π 36'03	
opposition	5673 Sep 15 11:19	26° Υ 44'15	-1°20'46	retrograde	5679 Sep 20 14:40	12° Π 18'34	
min. Earth dist.	5673 Sep 15 09:51	26° Υ 44'32	8.91991 AU	opposition	5679 Nov 29 12:58	8° Π 53'15	-2°32'18
direct	5673 Nov 24 14:59	23° Υ 25'17		min. Earth dist.	5679 Nov 29 10:55	8° Π 53'39	8.57642 AU
	5674 Feb 28 18:04	0° Υ		direct	5680 Feb 05 11:02	5° Π 32'11	
evening set	5674 Mar 05 12:32	0° Υ 33'17		evening set	5680 May 15 20:01	12° Π 57'30	
conjunction	5674 Mar 22 04:45	2° Υ 32'18	-1°16'40	conjunction	5680 Jun 01 22:59	15° Π 04'02	-1°59'36
minimum elong	5674 Mar 22 04:43	2° Υ 32'17	1°16'40	minimum elong	5680 Jun 01 23:01	15° Π 04'02	1°59'37
max. Earth dist.	5674 Mar 22 06:07	2° Υ 32'42	10.91051 AU	max. Earth dist.	5680 Jun 02 00:48	15° Π 04'35	10.53291 AU
morning rise	5674 Apr 07 21:52	4° Υ 31'37		morning rise	5680 Jun 19 06:21	17° Π 11'53	
retrograde	5674 Jul 19 08:50	11° Υ 46'19		retrograde	5680 Oct 03 00:15	25° Π 00'24	
opposition	5674 Sep 27 22:15	8° Υ 26'12	-1°46'09	opposition	5680 Dec 11 15:49	21° Π 34'04	-2°20'52
min. Earth dist.	5674 Sep 27 20:56	8° Υ 26'27	8.89793 AU	min. Earth dist.	5680 Dec 11 14:06	21° Π 34'24	8.49159 AU
direct	5674 Dec 06 18:17	5° Υ 07'26		direct	5681 Feb 17 06:56	18° Π 11'59	
evening set	5675 Mar 17 07:49	12° Υ 15'44		evening set	5681 May 28 21:48	25° Π 42'55	
conjunction	5675 Apr 02 23:53	14° Υ 15'04	-1°35'40	conjunction	5681 Jun 15 05:06	27° Π 51'44	-1°47'12
minimum elong	5675 Apr 02 23:51	14° Υ 15'03	1°35'40	minimum elong	5681 Jun 15 05:09	27° Π 51'45	1°47'13
max. Earth dist.	5675 Apr 03 00:21	14° Υ 15'13	10.87948 AU	max. Earth dist.	5681 Jun 15 07:14	27° Π 52'24	10.44883 AU
morning rise	5675 Apr 19 17:48	16° Υ 14'58		morning rise	5681 Jul 02 16:45	0° Θ 01'52	
retrograde	5675 Jul 31 20:18	23° Υ 33'59			5681 Jul 02 10:38	0° Θ	
opposition	5675 Oct 10 10:29	20° Υ 13'02	-2°07'16	retrograde	5681 Oct 16 15:41	7° Θ 55'51	
min. Earth dist.	5675 Oct 10 09:46	20° Υ 13'10	8.85864 AU	opposition	5681 Dec 24 21:56	4° Θ 28'39	-2°02'08
direct	5675 Dec 18 22:26	16° Υ 54'14		min. Earth dist.	5681 Dec 24 20:14	4° Θ 28'59	8.40875 AU
evening set	5676 Mar 28 05:37	24° Υ 04'02		direct	5682 Mar 02 06:35	1° Θ 05'28	
conjunction	5676 Apr 13 22:19	26° Υ 04'06	-1°50'46	evening set	5682 Jun 11 07:08	8° Θ 42'22	
minimum elong	5676 Apr 13 22:18	26° Υ 04'06	1°50'48	conjunction	5682 Jun 28 19:04	10° Θ 53'31	-1°29'08
max. Earth dist.	5676 Apr 13 22:56	26° Υ 04'17	10.83190 AU	minimum elong	5682 Jun 28 19:07	10° Θ 53'32	1°29'09
morning rise	5676 Apr 30 17:36	28° Υ 04'57		max. Earth dist.	5682 Jun 28 21:51	10° Θ 54'24	10.36880 AU
	5676 May 17 11:08	0° \Re		morning rise	5682 Jul 16 10:57	13° Θ 05'56	
retrograde	5676 Aug 12 10:47	5° \Re 29'12		retrograde	5682 Oct 30 11:46	21° Θ 04'36	
opposition	5676 Oct 22 00:55	2° \Re 07'16	-2°23'13	opposition	5683 Jan 07 07:34	17° Θ 36'43	-1°36'43
min. Earth dist.	5676 Oct 21 23:50	2° \Re 07'28	8.80384 AU	min. Earth dist.	5683 Jan 07 05:23	17° Θ 37'09	8.33196 AU
	5676 Nov 21 12:39	30° \Re Υ		direct	5683 Mar 15 10:54	14° Θ 12'26	
direct	5676 Dec 30 03:24	28° Υ 48'13		evening set	5683 Jun 25 00:03	21° Θ 55'24	
	5677 Feb 05 20:00	0° \Re		conjunction	5683 Jul 12 16:24	24° Θ 08'47	-1°06'07
evening set	5677 Apr 09 07:01	6° \Re 00'36		minimum elong	5683 Jul 12 16:26	24° Θ 08'48	1°06'08
conjunction	5677 Apr 26 01:14	8° \Re 01'46	-2°01'15	max. Earth dist.	5683 Jul 12 19:14	24° Θ 09'41	10.29685 AU
minimum elong	5677 Apr 26 01:13	8° \Re 01'46	2°01'17	morning rise	5683 Jul 30 12:11	26° Θ 23'18	
max. Earth dist.	5677 Apr 26 02:56	8° \Re 02'17	10.77018 AU		5683 Aug 30 13:50	0° Ω	
morning rise	5677 May 12 22:27	10° \Re 03'54		retrograde	5683 Nov 13 11:05	4° Ω 25'37	
	5677 Jun 29 00:56	15° \Re		opposition	5684 Jan 20 20:25	0° Ω 57'16	-1°05'40
retrograde	5677 Aug 25 06:42	17° \Re 34'03		min. Earth dist.	5684 Jan 20 18:11	0° Ω 57'43	8.26529 AU
	5677 Oct 23 21:39	15° \Re \Re			5684 Feb 01 19:59	30° \Re Θ	
opposition	5677 Nov 03 17:51	14° \Re 10'58	-2°33'08	direct	5684 Mar 27 20:30	27° Θ 31'53	
min. Earth dist.	5677 Nov 03 15:55	14° \Re 11'20	8.73631 AU		5684 May 20 03:28	0° Ω	
direct	5678 Jan 11 12:03	10° \Re 51'28		evening set	5684 Jul 08 00:28	5° Ω 20'49	
	5678 Mar 24 19:42	15° \Re		conjunction	5684 Jul 25 20:40	7° Ω 36'09	-0°39'12
evening set	5678 Apr 21 13:25	18° \Re 07'22		minimum elong	5684 Jul 25 20:42	7° Ω 36'10	0°39'13
conjunction	5678 May 08 09:51	20° \Re 10'01	-2°06'30	max. Earth dist.	5684 Jul 25 22:51	7° Ω 36'51	10.23691 AU
minimum elong	5678 May 08 09:51	20° \Re 10'01	2°06'32	morning rise	5684 Aug 12 19:42	9° Ω 52'24	
max. Earth dist.	5678 May 08 12:09	20° \Re 10'43	10.69739 AU		5684 Sep 27 22:04	15° Ω	
morning rise	5678 May 25 09:43	22° \Re 13'46		retrograde	5684 Nov 26 13:07	17° Ω 57'04	
retrograde	5678 Sep 07 08:35	29° \Re 50'04			5685 Jan 20 00:43	15° \Re Ω	
opposition	5678 Nov 16 13:39	26° \Re 25'51	-2°36'19	opposition	5685 Feb 02 11:52	14° Ω 28'34	-0°30'32
min. Earth dist.	5678 Nov 16 11:19	26° \Re 26'18	8.65929 AU	min. Earth dist.	5685 Feb 02 10:13	14° Ω 28'54	8.21252 AU
direct	5679 Jan 23 21:40	23° \Re 05'40		direct	5685 Apr 10 10:15	11° Ω 02'08	

	5685 Jun 18 08:47	15°♈	min. Earth dist.	5691 Apr 25 00:48	6°♐34'28	8.29066 AU
evening set	5685 Jul 22 07:29	18°♈56'37	direct	5691 Jul 02 12:06	3°♐06'30	
			evening set	5691 Oct 16 14:20	11°♐08'16	
conjunction	5685 Aug 09 06:38	21°♈13'28 -0°09'51				
minimum elong	5685 Aug 09 06:38	21°♈13'28 0°09'52	conjunction	5691 Nov 03 06:34	13°♐21'26	2°03'25
behind sun begin	5685 Aug 09 00:43	21°♈11'36	minimum elong	5691 Nov 03 06:33	13°♐21'25	2°03'26
behind sun end	5685 Aug 09 12:32	21°♈15'20	max. Earth dist.	5691 Nov 03 05:04	13°♐20'57	10.32393 AU
max. Earth dist.	5685 Aug 09 07:35	21°♈13'46 10.19238 AU		5691 Nov 16 07:28	15°♐	
morning rise	5685 Aug 27 07:49	23°♈30'57	morning rise	5691 Nov 20 19:08	15°♐33'30	
	5685 Oct 28 15:53	0°♐	retrograde	5692 Mar 01 11:23	23°♐16'51	
retrograde	5685 Dec 10 16:10	1°♐36'33	opposition	5692 May 07 12:40	19°♐53'42	2°35'50
asc. node	5685 Dec 10 17:21	1°♐36'33	min. Earth dist.	5692 May 07 14:14	19°♐53'24	8.36253 AU
	5686 Jan 23 02:16	30°♐♌	direct	5692 Jul 15 12:00	16°♐26'06	
opposition	5686 Feb 16 05:31	28°♌08'11 0°06'42	evening set	5692 Oct 29 13:48	24°♐23'28	
min. Earth dist.	5686 Feb 16 04:49	28°♌08'19 8.17675 AU				
direct	5686 Apr 24 05:09	24°♌40'51	conjunction	5692 Nov 16 02:33	26°♐34'37	2°06'29
	5686 Jul 14 15:40	0°♐	minimum elong	5692 Nov 16 02:32	26°♐34'37	2°06'29
evening set	5686 Aug 05 19:36	2°♐40'07	max. Earth dist.	5692 Nov 16 00:05	26°♐33'50	10.40047 AU
			morning rise	5692 Dec 03 11:25	28°♐44'34	
conjunction	5686 Aug 23 20:27	4°♐57'51 0°20'22		5692 Dec 13 20:53	0°♐	
minimum elong	5686 Aug 23 20:26	4°♐57'51 0°20'21	retrograde	5693 Mar 14 14:23	6°♐21'19	
max. Earth dist.	5686 Aug 23 20:31	4°♐57'53 10.16594 AU	opposition	5693 May 20 21:46	2°♐59'16	2°35'17
morning rise	5686 Sep 10 22:22	7°♐15'55	min. Earth dist.	5693 May 20 23:45	2°♐58'52	8.44266 AU
retrograde	5686 Dec 24 18:26	15°♐21'02		5693 Jul 05 23:27	30°♐♐	
opposition	5687 Mar 02 00:29	11°♐53'03 0°43'47	direct	5693 Jul 29 07:36	29°♐32'22	
min. Earth dist.	5687 Mar 02 00:15	11°♐53'06 8.16027 AU		5693 Aug 21 13:32	0°♐	
direct	5687 May 08 04:33	8°♐25'03	evening set	5693 Nov 12 05:03	7°♐24'06	
evening set	5687 Aug 20 11:08	16°♐28'01				
			conjunction	5693 Nov 29 14:30	9°♐33'14	2°02'59
conjunction	5687 Sep 07 12:26	18°♐45'59 0°49'27	minimum elong	5693 Nov 29 14:31	9°♐33'15	2°03'00
minimum elong	5687 Sep 07 12:24	18°♐45'58 0°49'26	max. Earth dist.	5693 Nov 29 11:28	9°♐32'18	10.48303 AU
max. Earth dist.	5687 Sep 07 12:10	18°♐45'54 10.15942 AU	morning rise	5693 Dec 16 19:59	11°♐41'08	
morning rise	5687 Sep 25 13:39	21°♐03'56	retrograde	5694 Mar 27 12:01	19°♐11'21	
retrograde	5688 Jan 07 18:32	29°♐07'05	opposition	5694 Jun 03 03:04	15°♐50'16	2°26'56
opposition	5688 Mar 14 19:49	25°♐39'45 1°18'26	min. Earth dist.	5694 Jun 03 04:52	15°♐49'55	8.52610 AU
min. Earth dist.	5688 Mar 14 19:39	25°♐39'47 8.16425 AU	direct	5694 Aug 11 22:32	12°♐24'13	
direct	5688 May 21 06:36	22°♐11'20	evening set	5694 Nov 25 11:38	20°♐09'38	
	5688 Aug 31 22:59	0°♐				
evening set	5688 Sep 03 03:56	0°♐16'33	conjunction	5694 Dec 12 18:11	22°♐16'51	1°53'27
			minimum elong	5694 Dec 12 18:13	22°♐16'51	1°53'29
conjunction	5688 Sep 21 04:25	2°♐34'06 1°15'42	max. Earth dist.	5694 Dec 12 15:19	22°♐15'58	10.56638 AU
minimum elong	5688 Sep 21 04:22	2°♐34'05 1°15'42	morning rise	5694 Dec 29 20:41	24°♐22'51	
max. Earth dist.	5688 Sep 21 04:03	2°♐33'59 10.17333 AU		5695 Feb 22 14:10	0°♐	
morning rise	5688 Oct 09 03:35	4°♐51'16	retrograde	5695 Apr 09 04:49	1°♐47'05	
retrograde	5689 Jan 20 17:07	12°♐51'05		5695 May 26 07:23	30°♐♐	
opposition	5689 Mar 28 14:47	9°♐24'37 1°48'27	opposition	5695 Jun 16 04:33	28°♐26'52	2°11'35
min. Earth dist.	5689 Mar 28 14:34	9°♐24'40 8.18845 AU	min. Earth dist.	5695 Jun 16 06:29	28°♐26'30	8.60767 AU
direct	5689 Jun 04 08:35	5°♐56'03	direct	5695 Aug 25 08:19	25°♐01'46	
evening set	5689 Sep 17 19:38	14°♐01'52		5695 Nov 15 01:55	0°♐	
			evening set	5695 Dec 08 10:21	2°♐40'43	
conjunction	5689 Oct 05 18:04	16°♐18'24 1°37'31				
minimum elong	5689 Oct 05 18:01	16°♐18'23 1°37'31	conjunction	5695 Dec 25 14:17	4°♐46'11	1°38'38
max. Earth dist.	5689 Oct 05 17:44	16°♐18'17 10.20683 AU	minimum elong	5695 Dec 25 14:19	4°♐46'11	1°38'40
morning rise	5689 Oct 23 14:06	18°♐34'12	max. Earth dist.	5695 Dec 25 11:27	4°♐45'19	10.64575 AU
retrograde	5690 Feb 03 12:49	26°♐29'27	morning rise	5696 Jan 11 14:13	6°♐50'30	
opposition	5690 Apr 11 08:28	23°♐04'01 2°12'05	retrograde	5696 Apr 20 18:56	14°♐09'34	
min. Earth dist.	5690 Apr 11 08:28	23°♐04'01 8.23141 AU	opposition	5696 Jun 28 02:31	10°♐50'07	1°50'22
direct	5690 Jun 18 10:41	19°♐35'34	min. Earth dist.	5696 Jun 28 05:00	10°♐49'38	8.68351 AU
evening set	5690 Oct 02 07:48	27°♐40'13	direct	5696 Sep 06 11:54	7°♐26'00	
			evening set	5696 Dec 20 01:48	14°♐58'39	
conjunction	5690 Oct 20 03:22	29°♐55'13 1°53'40				
minimum elong	5690 Oct 20 03:20	29°♐55'13 1°53'41	conjunction	5697 Jan 06 03:16	17°♐02'34	1°19'30
max. Earth dist.	5690 Oct 20 02:46	29°♐55'02 10.25804 AU	minimum elong	5697 Jan 06 03:18	17°♐02'34	1°19'31
	5690 Oct 20 18:23	0°♐	max. Earth dist.	5697 Jan 06 00:04	17°♐01'35	10.71806 AU
morning rise	5690 Nov 06 19:43	2°♐09'17	morning rise	5697 Jan 23 01:13	19°♐05'27	
retrograde	5691 Feb 17 03:24	9°♐58'56	retrograde	5697 May 03 03:59	26°♐20'19	
opposition	5691 Apr 25 00:01	6°♐34'38 2°28'05	opposition	5697 Jul 10 21:33	23°♐01'24	1°24'30

min. Earth dist.	5697 Jul 11 00:32	23° \mathfrak{Z} 00'50	8.75116 AU	morning rise	5703 Apr 04 08:18	29° \mathfrak{H} 51'32
direct	5697 Sep 19 10:38	19° \mathfrak{Z} 38'14			5703 Apr 05 13:12	0° \mathfrak{Y}
evening set	5698 Jan 01 10:40	27° \mathfrak{Z} 04'56		retrograde	5703 Jul 15 11:27	7° \mathfrak{Y} 05'41
				opposition	5703 Sep 24 00:54	3° \mathfrak{Y} 45'11 -1°36'03
conjunction	5698 Jan 18 09:56	29° \mathfrak{Z} 07'29	0°57'03	min. Earth dist.	5703 Sep 24 00:20	3° \mathfrak{Y} 45'17 8.88171 AU
minimum elong	5698 Jan 18 09:57	29° \mathfrak{Z} 07'29	0°57'04	direct	5703 Dec 03 01:25	0° \mathfrak{Y} 25'35
max. Earth dist.	5698 Jan 18 06:15	29° \mathfrak{Z} 06'22	10.78101 AU	evening set	5704 Mar 12 17:28	7° \mathfrak{Y} 34'43
	5698 Jan 25 15:27	0° \approx				
morning rise	5698 Feb 04 06:24	1° \approx 09'11		conjunction	5704 Mar 29 09:44	9° \mathfrak{Y} 34'11 -1°28'11
retrograde	5698 May 15 09:39	8° \approx 20'57		minimum elong	5704 Mar 29 09:42	9° \mathfrak{Y} 34'11 1°28'11
opposition	5698 Jul 23 13:47	5° \approx 02'17	0°55'18	max. Earth dist.	5704 Mar 29 11:01	9° \mathfrak{Y} 34'34 10.86694 AU
min. Earth dist.	5698 Jul 23 16:24	5° \approx 01'48	8.80836 AU	morning rise	5704 Apr 15 03:20	11° \mathfrak{Y} 34'06
direct	5698 Oct 02 06:22	1° \approx 40'01		retrograde	5704 Jul 26 22:54	18° \mathfrak{Y} 52'13
evening set	5699 Jan 13 14:14	9° \approx 01'22		opposition	5704 Oct 05 13:08	15° \mathfrak{Y} 30'54 -1°59'09
				min. Earth dist.	5704 Oct 05 11:11	15° \mathfrak{Y} 31'15 8.85003 AU
conjunction	5699 Jan 30 11:40	11° \approx 02'46	0°32'22	direct	5704 Dec 14 05:50	12° \mathfrak{Y} 11'26
minimum elong	5699 Jan 30 11:41	11° \approx 02'46	0°32'23	evening set	5705 Mar 24 14:32	19° \mathfrak{Y} 21'29
max. Earth dist.	5699 Jan 30 08:38	11° \approx 01'51	10.83236 AU			
morning rise	5699 Feb 16 06:54	13° \approx 03'30		conjunction	5705 Apr 10 07:08	21° \mathfrak{Y} 21'30 -1°45'03
	5699 Mar 05 06:27	15° \approx		minimum elong	5705 Apr 10 07:06	21° \mathfrak{Y} 21'29 1°45'04
retrograde	5699 May 27 15:27	20° \approx 13'18		max. Earth dist.	5705 Apr 10 09:17	21° \mathfrak{Y} 22'09 10.82772 AU
opposition	5699 Aug 05 03:29	16° \approx 54'39	0°24'05	morning rise	5705 Apr 27 01:45	23° \mathfrak{Y} 22'11
min. Earth dist.	5699 Aug 05 05:08	16° \approx 54'20	8.85298 AU		5705 Jul 09 04:22	0° \mathfrak{B}
	5699 Sep 01 06:31	15° \mathfrak{R} \approx		retrograde	5705 Aug 08 13:27	0° \mathfrak{B} 45'06
direct	5699 Oct 14 21:18	13° \approx 33'11			5705 Sep 08 07:06	30° \mathfrak{R} \mathfrak{Y}
	5699 Nov 26 08:31	15° \approx		opposition	5705 Oct 18 03:04	27° \mathfrak{Y} 22'54 -2°17'24
evening set	5700 Jan 25 13:33	20° \approx 49'57		min. Earth dist.	5705 Oct 18 00:41	27° \mathfrak{Y} 23'21 8.80423 AU
				direct	5705 Dec 26 09:14	24° \mathfrak{Y} 03'23
conjunction	5700 Feb 11 09:26	22° \approx 50'27	0°06'35		5706 Mar 25 19:46	0° \mathfrak{B}
minimum elong	5700 Feb 11 09:26	22° \approx 50'27	0°06'35	evening set	5706 Apr 05 14:51	1° \mathfrak{B} 15'28
behind sun begin	5700 Feb 11 02:51	22° \approx 48'29				
behind sun end	5700 Feb 11 16:01	22° \approx 52'24		conjunction	5706 Apr 22 08:24	3° \mathfrak{B} 16'24 -1°57'33
max. Earth dist.	5700 Feb 11 07:43	22° \approx 49'57	10.87010 AU	minimum elong	5706 Apr 22 08:22	3° \mathfrak{B} 16'23 1°57'35
morning rise	5700 Feb 28 03:34	24° \approx 50'27		max. Earth dist.	5706 Apr 22 10:27	3° \mathfrak{B} 17'01 10.77528 AU
	5700 Apr 20 04:23	0° \mathfrak{H}		morning rise	5706 May 09 04:49	5° \mathfrak{B} 18'11
desc. node	5700 May 16 15:01	1° \mathfrak{H} 32'30		retrograde	5706 Aug 21 07:16	12° \mathfrak{B} 46'36
retrograde	5700 Jun 08 19:40	1° \mathfrak{H} 59'30		opposition	5706 Oct 30 19:23	9° \mathfrak{B} 23'29 -2°29'55
	5700 Jul 30 10:59	30° \mathfrak{R} \approx		min. Earth dist.	5706 Oct 30 17:06	9° \mathfrak{B} 23'55 8.74608 AU
opposition	5700 Aug 17 15:45	28° \approx 40'39	-0°07'53	direct	5707 Jan 07 16:33	6° \mathfrak{B} 03'42
min. Earth dist.	5700 Aug 17 16:29	28° \approx 40'31	8.88338 AU	evening set	5707 Apr 17 19:27	13° \mathfrak{B} 18'50
direct	5700 Oct 27 07:14	25° \approx 19'52			5707 May 01 17:52	15° \mathfrak{B}
	5701 Jan 14 15:09	0° \mathfrak{H}				
evening set	5701 Feb 06 09:48	2° \mathfrak{H} 33'02		conjunction	5707 May 04 14:45	15° \mathfrak{B} 21'01 -2°05'02
				minimum elong	5707 May 04 14:44	15° \mathfrak{B} 21'01 2°05'04
conjunction	5701 Feb 23 04:13	4° \mathfrak{H} 32'49	-0°19'27	max. Earth dist.	5707 May 04 17:00	15° \mathfrak{B} 21'43 10.71172 AU
minimum elong	5701 Feb 23 04:12	4° \mathfrak{H} 32'49	0°19'27	morning rise	5707 May 21 13:36	17° \mathfrak{B} 24'16
max. Earth dist.	5701 Feb 23 03:23	4° \mathfrak{H} 32'35	10.89291 AU	retrograde	5707 Sep 03 06:20	24° \mathfrak{B} 58'38
morning rise	5701 Mar 11 21:39	6° \mathfrak{H} 32'22		opposition	5707 Nov 12 14:31	21° \mathfrak{B} 34'34 -2°35'55
retrograde	5701 Jun 21 00:13	13° \mathfrak{H} 41'56		min. Earth dist.	5707 Nov 12 12:06	21° \mathfrak{B} 35'02 8.67802 AU
opposition	5701 Aug 30 03:03	10° \mathfrak{H} 22'42	-0°39'20	direct	5708 Jan 20 02:09	18° \mathfrak{B} 14'23
min. Earth dist.	5701 Aug 30 03:39	10° \mathfrak{H} 22'35	8.89857 AU	evening set	5708 Apr 29 05:21	25° \mathfrak{B} 33'25
direct	5701 Nov 08 14:54	7° \mathfrak{H} 02'27				
evening set	5702 Feb 18 04:27	14° \mathfrak{H} 13'06		conjunction	5708 May 16 03:23	27° \mathfrak{B} 37'13 -2°06'57
				minimum elong	5708 May 16 03:23	27° \mathfrak{B} 37'13 2°06'58
conjunction	5702 Mar 06 21:37	16° \mathfrak{H} 12'28	-0°44'30	max. Earth dist.	5708 May 16 06:51	27° \mathfrak{B} 38'17 10.63985 AU
minimum elong	5702 Mar 06 21:36	16° \mathfrak{H} 12'28	0°44'30	morning rise	5708 Jun 02 05:15	29° \mathfrak{B} 42'13
max. Earth dist.	5702 Mar 06 20:40	16° \mathfrak{H} 12'11	10.90008 AU		5708 Jun 04 16:37	0° \mathfrak{I}
morning rise	5702 Mar 23 14:49	18° \mathfrak{H} 11'51		retrograde	5708 Sep 15 10:17	7° \mathfrak{I} 22'44
retrograde	5702 Jul 03 05:02	25° \mathfrak{H} 23'06		opposition	5708 Nov 24 12:49	3° \mathfrak{I} 57'44 -2°34'52
opposition	5702 Sep 11 13:46	22° \mathfrak{H} 03'19	-1°09'06	min. Earth dist.	5708 Nov 24 09:33	3° \mathfrak{I} 58'21 8.60314 AU
min. Earth dist.	5702 Sep 11 14:10	22° \mathfrak{H} 03'14	8.89806 AU	direct	5709 Jan 31 15:16	0° \mathfrak{I} 36'59
direct	5702 Nov 20 19:53	18° \mathfrak{H} 43'27		evening set	5709 May 11 21:27	8° \mathfrak{I} 00'38
evening set	5703 Mar 01 22:36	25° \mathfrak{H} 52'47				
				conjunction	5709 May 28 22:59	10° \mathfrak{I} 06'23 -2°02'57
conjunction	5703 Mar 18 15:03	27° \mathfrak{H} 52'02	-1°07'43	minimum elong	5709 May 28 23:00	10° \mathfrak{I} 06'23 2°02'58
minimum elong	5703 Mar 18 15:01	27° \mathfrak{H} 52'02	1°07'43	max. Earth dist.	5709 May 29 03:24	10° \mathfrak{I} 07'45 10.56290 AU
max. Earth dist.	5703 Mar 18 14:44	27° \mathfrak{H} 51'57	10.89137 AU	morning rise	5709 Jun 15 04:30	12° \mathfrak{I} 13'24

retrograde	5709 Sep 28 19:46	19° Π 59'54			5715 Aug 22 16:18	0° Π	
opposition	5709 Dec 07 14:30	16° Π 34'03	-2°26'24	morning rise	5715 Sep 06 06:06	1° Π 50'51	
min. Earth dist.	5709 Dec 07 10:37	16° Π 34'49	8.52480 AU	retrograde	5715 Dec 20 07:52	9° Π 55'36	
direct	5710 Feb 13 08:45	13° Π 12'36		opposition	5716 Feb 25 16:41	6° Π 28'01	0°28'42
evening set	5710 May 24 20:39	20° Π 41'28		min. Earth dist.	5716 Feb 25 15:41	6° Π 28'13	8.18381 AU
				direct	5716 May 02 18:28	3° Π 00'54	
conjunction	5710 Jun 11 02:08	22° Π 49'22	-1°52'56	evening set	5716 Aug 14 18:23	11° Π 01'36	
minimum elong	5710 Jun 11 02:11	22° Π 49'23	1°52'57				
max. Earth dist.	5710 Jun 11 06:35	22° Π 50'45	10.48448 AU	conjunction	5716 Sep 01 19:38	13° Π 19'19	0°37'43
morning rise	5710 Jun 28 11:48	24° Π 58'34		minimum elong	5716 Sep 01 19:36	13° Π 19'18	0°37'42
	5710 Aug 13 19:43	0° Ξ		max. Earth dist.	5716 Sep 01 19:52	13° Π 19'23	10.17761 AU
retrograde	5710 Oct 12 11:13	2° Ξ 50'35		morning rise	5716 Sep 19 21:03	15° Π 37'08	
	5710 Dec 13 04:15	30° κ Π		retrograde	5717 Jan 02 09:25	23° Π 40'33	
opposition	5710 Dec 20 19:38	29° Π 24'02	-2°10'33	opposition	5717 Mar 10 11:32	20° Π 13'24	1°04'33
min. Earth dist.	5710 Dec 20 15:50	29° Π 24'47	8.44682 AU	min. Earth dist.	5717 Mar 10 11:33	20° Π 13'24	8.17661 AU
direct	5711 Feb 26 05:02	26° Π 01'44		direct	5717 May 16 18:25	16° Π 45'36	
	5711 May 06 16:19	0° Ξ		evening set	5717 Aug 29 10:39	24° Π 49'16	
evening set	5711 Jun 07 03:12	3° Ξ 36'13					
conjunction	5711 Jun 24 13:01	5° Ξ 46'21	-1°37'05	conjunction	5717 Sep 16 11:27	27° Π 06'50	1°05'18
minimum elong	5711 Jun 24 13:04	5° Ξ 46'21	1°37'06	minimum elong	5717 Sep 16 11:24	27° Π 06'49	1°05'18
max. Earth dist.	5711 Jun 24 16:44	5° Ξ 47'31	10.40849 AU	max. Earth dist.	5717 Sep 16 10:22	27° Π 06'29	10.17999 AU
morning rise	5711 Jul 12 03:05	7° Ξ 57'47		morning rise	5717 Oct 04 11:26	29° Π 24'10	
retrograde	5711 Oct 26 05:35	15° Ξ 54'35			5717 Oct 09 06:32	0° Ω	
opposition	5712 Jan 03 04:17	12° Ξ 27'27	-1°47'43	retrograde	5718 Jan 16 08:29	7° Ω 24'50	
min. Earth dist.	5712 Jan 03 01:13	12° Ξ 28'03	8.37313 AU	opposition	5718 Mar 24 06:28	3° Ω 58'19	1°36'40
direct	5712 Mar 10 07:43	9° Ξ 04'11		min. Earth dist.	5718 Mar 24 07:25	3° Ω 58'08	8.18918 AU
evening set	5712 Jun 19 17:10	16° Ξ 44'27		direct	5718 May 30 20:16	0° Ω 30'03	
				evening set	5718 Sep 13 02:27	8° Ω 35'02	
conjunction	5712 Jul 07 07:28	18° Ξ 56'47	-1°15'59	conjunction	5718 Oct 01 01:36	10° Ω 51'50	1°29'05
minimum elong	5712 Jul 07 07:31	18° Ξ 56'48	1°15'59	minimum elong	5718 Oct 01 01:33	10° Ω 51'49	1°29'05
max. Earth dist.	5712 Jul 07 10:39	18° Ξ 57'48	10.33865 AU	max. Earth dist.	5718 Sep 30 23:32	10° Ω 51'11	10.20195 AU
morning rise	5712 Jul 25 01:45	21° Ξ 10'21		morning rise	5718 Oct 18 23:03	13° Ω 08'06	
retrograde	5712 Nov 08 02:32	29° Ξ 10'55		retrograde	5719 Jan 30 04:04	21° Ω 04'42	
opposition	5713 Jan 15 15:59	25° Ξ 43'21	-1°18'49	opposition	5719 Apr 07 00:20	17° Ω 38'58	2°03'07
min. Earth dist.	5713 Jan 15 13:38	25° Ξ 43'50	8.30725 AU	min. Earth dist.	5719 Apr 07 01:52	17° Ω 38'39	8.22089 AU
direct	5713 Mar 23 16:44	22° Ξ 19'03		direct	5719 Jun 13 23:26	14° Ω 10'28	
	5713 Jul 02 22:19	0° Ω		evening set	5719 Sep 27 15:41	22° Ω 15'05	
evening set	5713 Jul 03 14:36	0° Ω 05'03					
conjunction	5713 Jul 21 09:06	2° Ω 19'24	-0°50'31	conjunction	5719 Oct 15 12:22	24° Ω 30'35	1°47'42
minimum elong	5713 Jul 21 09:08	2° Ω 19'25	0°50'32	minimum elong	5719 Oct 15 12:19	24° Ω 30'34	1°47'43
max. Earth dist.	5713 Jul 21 11:49	2° Ω 20'16	10.27801 AU	max. Earth dist.	5719 Oct 15 09:39	24° Ω 29'43	10.24224 AU
morning rise	5713 Aug 08 06:53	4° Ω 34'46		morning rise	5719 Nov 02 06:28	26° Ω 45'17	
retrograde	5713 Nov 22 02:12	12° Ω 37'56			5719 Nov 29 18:22	0° Π	
opposition	5714 Jan 29 06:08	9° Ω 10'08	-0°45'11	retrograde	5720 Feb 12 18:32	4° Π 36'44	
min. Earth dist.	5714 Jan 29 04:17	9° Ω 10'30	8.25197 AU	opposition	5720 Apr 19 16:04	1° Π 11'52	2°22'24
direct	5714 Apr 06 05:24	5° Ω 44'47		min. Earth dist.	5720 Apr 19 17:38	1° Π 11'33	8.26971 AU
evening set	5714 Jul 17 18:39	13° Ω 36'16			5720 May 04 19:44	30° κ Ω	
	5714 Jul 28 20:25	15° Ω		direct	5720 Jun 27 01:59	27° Ω 43'26	
					5720 Aug 18 05:21	0° Π	
conjunction	5714 Aug 04 16:36	15° Ω 52'17	-0°22'01	evening set	5720 Oct 11 00:09	5° Π 45'56	
minimum elong	5714 Aug 04 16:37	15° Ω 52'17	0°22'01				
max. Earth dist.	5714 Aug 04 18:42	15° Ω 52'57	10.22907 AU	conjunction	5720 Oct 28 17:48	7° Π 59'46	2°00'12
morning rise	5714 Aug 22 16:52	18° Ω 09'03		minimum elong	5720 Oct 28 17:46	7° Π 59'45	2°00'13
retrograde	5714 Dec 06 04:56	26° Ω 13'39		max. Earth dist.	5720 Oct 28 15:08	7° Π 58'55	10.29830 AU
opposition	5715 Feb 11 22:35	22° Ω 45'50	-0°08'39	morning rise	5720 Nov 15 08:04	10° Π 12'35	
min. Earth dist.	5715 Feb 11 21:04	22° Ω 46'09	8.20979 AU		5720 Dec 28 06:51	15° Π	
direct	5715 Apr 19 21:48	19° Ω 19'33		retrograde	5721 Feb 25 04:26	17° Π 58'06	
asc. node	5715 May 10 10:46	19° Ω 42'49			5721 Apr 27 20:07	15° κ Π	
evening set	5715 Aug 01 04:17	27° Ω 16'03		opposition	5721 May 03 05:17	14° Π 34'12	2°33'40
				min. Earth dist.	5721 May 03 06:43	14° Π 33'54	8.33256 AU
conjunction	5715 Aug 19 04:35	29° Ω 33'14	0°08'03	direct	5721 Jul 11 01:59	11° Π 06'03	
minimum elong	5715 Aug 19 04:34	29° Ω 33'14	0°08'03		5721 Sep 19 05:32	15° Π	
behind sun begin	5715 Aug 18 22:04	29° Ω 31'10		evening set	5721 Oct 25 01:53	19° Π 04'50	
behind sun end	5715 Aug 19 11:04	29° Ω 35'17					
max. Earth dist.	5715 Aug 19 06:00	29° Ω 33'40	10.19459 AU	conjunction	5721 Nov 11 16:14	21° Π 16'47	2°06'04
				minimum elong	5721 Nov 11 16:14	21° Π 16'46	2°06'06

max. Earth dist.	5721 Nov 11 13:56	21° \mathbb{M} 16'03	10.36673 AU	max. Earth dist.	5728 Jan 26 14:01	6° \approx 07'18	10.81811 AU
morning rise	5721 Nov 29 02:36	23° \mathbb{M} 27'33		morning rise	5728 Feb 12 10:56	8° \approx 08'41	
	5722 Feb 03 03:25	0° \mathbb{A}			5728 May 03 14:59	15° \approx	
retrograde	5722 Mar 10 10:32	1° \mathbb{A} 06'42		retrograde	5728 May 22 17:08	15° \approx 18'30	
	5722 Apr 15 05:57	30° $\mathbb{R}\mathbb{M}$			5728 Jun 10 21:39	15° $\mathbb{R}\mathbb{M}$	
opposition	5722 May 16 15:18	27° \mathbb{M} 43'47	2°36'36	opposition	5728 Jul 31 01:05	11° \approx 59'51	0°37'54
min. Earth dist.	5722 May 16 16:58	27° \mathbb{M} 43'27	8.40577 AU	min. Earth dist.	5728 Jul 31 02:22	11° \approx 59'37	8.84408 AU
direct	5722 Jul 24 21:07	24° \mathbb{M} 16'10		direct	5728 Oct 09 18:08	8° \approx 38'05	
	5722 Oct 20 13:00	0° \mathbb{A}			5729 Jan 12 16:06	15° \approx	
evening set	5722 Nov 07 19:59	2° \mathbb{A} 09'56		evening set	5729 Jan 20 17:27	15° \approx 56'05	
conjunction	5722 Nov 25 07:00	4° \mathbb{A} 19'55	2°05'19	conjunction	5729 Feb 06 13:51	17° \approx 56'46	0°17'57
minimum elong	5722 Nov 25 07:00	4° \mathbb{A} 19'55	2°05'20	minimum elong	5729 Feb 06 13:51	17° \approx 56'46	0°17'57
max. Earth dist.	5722 Nov 25 04:38	4° \mathbb{A} 19'11	10.44372 AU	max. Earth dist.	5729 Feb 06 12:13	17° \approx 56'17	10.86670 AU
morning rise	5722 Dec 12 13:47	6° \mathbb{A} 28'39		morning rise	5729 Feb 23 08:24	19° \approx 56'54	
retrograde	5723 Mar 23 10:02	14° \mathbb{A} 01'19		retrograde	5729 Jun 03 19:14	27° \approx 05'21	
opposition	5723 May 29 21:36	10° \mathbb{A} 39'22	2°31'30	opposition	5729 Aug 12 13:17	23° \approx 46'50	0°06'11
min. Earth dist.	5723 May 29 23:56	10° \mathbb{A} 38'55	8.48542 AU	min. Earth dist.	5729 Aug 12 14:20	23° \approx 46'38	8.88564 AU
direct	5723 Aug 07 13:03	7° \mathbb{A} 12'27		direct	5729 Oct 22 04:55	20° \approx 25'59	
evening set	5723 Nov 21 05:51	15° \mathbb{A} 00'21		desc. node	5729 Oct 24 16:35	20° \approx 26'18	
				evening set	5730 Feb 01 14:13	27° \approx 39'55	
conjunction	5723 Dec 08 13:41	17° \mathbb{A} 08'23	1°58'16	conjunction	5730 Feb 18 09:05	29° \approx 39'47	-0°08'05
minimum elong	5723 Dec 08 13:42	17° \mathbb{A} 08'23	1°58'18	minimum elong	5730 Feb 18 09:04	29° \approx 39'47	0°08'05
max. Earth dist.	5723 Dec 08 10:41	17° \mathbb{A} 07'27	10.52521 AU	behind sun begin	5730 Feb 18 02:49	29° \approx 37'56	
morning rise	5723 Dec 25 17:25	19° \mathbb{A} 15'11		behind sun end	5730 Feb 18 15:20	29° \approx 41'38	
retrograde	5724 Apr 04 03:30	26° \mathbb{A} 41'38		max. Earth dist.	5730 Feb 18 07:57	29° \approx 39'27	10.90086 AU
opposition	5724 Jun 11 00:15	23° \mathbb{A} 20'37	2°19'01		5730 Feb 21 04:33	0° \mathbb{H}	
min. Earth dist.	5724 Jun 11 02:58	23° \mathbb{A} 20'05	8.56738 AU	morning rise	5730 Mar 07 02:52	1° \mathbb{H} 39'19	
direct	5724 Aug 20 01:08	19° \mathbb{A} 54'35		retrograde	5730 Jun 15 23:12	8° \mathbb{H} 47'43	
evening set	5724 Dec 03 07:26	27° \mathbb{A} 36'06		opposition	5730 Aug 25 00:09	5° \mathbb{H} 29'04	-0°25'32
conjunction	5724 Dec 20 12:21	29° \mathbb{A} 42'16	1°45'38	min. Earth dist.	5730 Aug 25 00:12	5° \mathbb{H} 29'03	8.91207 AU
minimum elong	5724 Dec 20 12:23	29° \mathbb{A} 42'16	1°45'40	direct	5730 Nov 03 14:49	2° \mathbb{H} 09'01	
max. Earth dist.	5724 Dec 20 08:53	29° \mathbb{A} 41'12	10.60709 AU	evening set	5731 Feb 13 08:54	9° \mathbb{H} 19'55	
	5724 Dec 22 22:01	0° \mathbb{B}		conjunction	5731 Mar 02 02:36	11° \mathbb{H} 19'14	-0°33'33
morning rise	5725 Jan 06 13:29	1° \mathbb{B} 47'17		minimum elong	5731 Mar 02 02:34	11° \mathbb{H} 19'14	0°33'33
retrograde	5725 Apr 16 17:25	9° \mathbb{B} 08'10		max. Earth dist.	5731 Mar 02 02:53	11° \mathbb{H} 19'19	10.91912 AU
opposition	5725 Jun 23 23:10	5° \mathbb{B} 47'57	2°00'12	morning rise	5731 Mar 18 19:43	13° \mathbb{H} 18'25	
min. Earth dist.	5725 Jun 24 01:23	5° \mathbb{B} 47'32	8.64770 AU	retrograde	5731 Jun 28 04:34	20° \mathbb{H} 27'56	
direct	5725 Sep 02 07:37	2° \mathbb{B} 22'57		opposition	5731 Sep 06 10:18	17° \mathbb{H} 08'58	-0°56'06
evening set	5725 Dec 16 01:13	9° \mathbb{B} 57'56		min. Earth dist.	5731 Sep 06 09:20	17° \mathbb{H} 09'08	8.92226 AU
conjunction	5726 Jan 02 03:41	12° \mathbb{B} 02'26	1°28'15	direct	5731 Nov 15 19:50	13° \mathbb{H} 49'34	
minimum elong	5726 Jan 02 03:43	12° \mathbb{B} 02'27	1°28'17	evening set	5732 Feb 25 02:43	20° \mathbb{H} 58'32	
max. Earth dist.	5726 Jan 02 00:51	12° \mathbb{B} 01'35	10.68554 AU	conjunction	5732 Mar 12 19:26	22° \mathbb{H} 57'34	-0°57'38
morning rise	5726 Jan 19 02:36	14° \mathbb{B} 05'53		minimum elong	5732 Mar 12 19:25	22° \mathbb{H} 57'33	0°57'37
retrograde	5726 Apr 29 03:35	21° \mathbb{B} 22'00		max. Earth dist.	5732 Mar 12 20:23	22° \mathbb{H} 57'51	10.92076 AU
opposition	5726 Jul 06 18:35	18° \mathbb{B} 02'28	1°36'12	morning rise	5732 Mar 29 12:20	24° \mathbb{H} 56'42	
min. Earth dist.	5726 Jul 06 19:58	18° \mathbb{B} 02'12	8.72273 AU		5732 May 18 08:52	0° \mathbb{Y}	
direct	5726 Sep 15 07:52	14° \mathbb{B} 38'35		retrograde	5732 Jul 09 10:12	2° \mathbb{Y} 08'31	
evening set	5726 Dec 28 11:58	22° \mathbb{B} 07'16			5732 Sep 01 15:02	30° $\mathbb{R}\mathbb{H}$	
conjunction	5727 Jan 14 12:20	24° \mathbb{B} 10'18	1°07'08	opposition	5732 Sep 17 20:50	28° \mathbb{H} 49'01	-1°24'20
minimum elong	5727 Jan 14 12:22	24° \mathbb{B} 10'19	1°07'09	min. Earth dist.	5732 Sep 17 19:42	28° \mathbb{H} 49'14	8.91576 AU
max. Earth dist.	5727 Jan 14 10:35	24° \mathbb{B} 09'46	10.75694 AU	direct	5732 Nov 26 23:14	25° \mathbb{H} 30'03	
morning rise	5727 Jan 31 09:23	26° \mathbb{B} 12'24			5733 Feb 12 05:45	0° \mathbb{Y}	
	5727 Mar 07 02:24	0° \approx		evening set	5733 Mar 07 20:45	2° \mathbb{Y} 38'13	
retrograde	5727 May 11 11:05	3° \approx 24'48		conjunction	5733 Mar 24 12:50	4° \mathbb{Y} 37'16	-1°19'22
opposition	5727 Jul 19 11:02	0° \approx 05'48	1°08'20	minimum elong	5733 Mar 24 12:48	4° \mathbb{Y} 37'15	1°19'21
min. Earth dist.	5727 Jul 19 12:03	0° \approx 05'36	8.78909 AU	max. Earth dist.	5733 Mar 24 13:31	4° \mathbb{Y} 37'28	10.90555 AU
	5727 Jul 20 17:39	30° $\mathbb{R}\mathbb{B}$		morning rise	5733 Apr 10 06:05	6° \mathbb{Y} 36'40	
direct	5727 Sep 28 03:44	26° \mathbb{B} 43'00		retrograde	5733 Jul 21 18:46	13° \mathbb{Y} 51'52	
	5727 Dec 02 14:23	0° \approx		opposition	5733 Sep 30 08:05	10° \mathbb{Y} 31'41	-1°49'11
evening set	5728 Jan 09 17:03	4° \approx 05'58		min. Earth dist.	5733 Sep 30 07:17	10° \mathbb{Y} 31'50	8.89238 AU
conjunction	5728 Jan 26 15:21	6° \approx 07'42	0°43'21	direct	5733 Dec 09 03:25	7° \mathbb{Y} 12'52	
minimum elong	5728 Jan 26 15:23	6° \approx 07'43	0°43'21	evening set	5734 Mar 19 16:21	14° \mathbb{Y} 21'25	

conjunction	5734 Apr 05 08:27	16° Υ 20'50	-1°37'53	conjunction	5740 Jun 17 18:26	0° Θ 06'30	-1°45'00
minimum elong	5734 Apr 05 08:25	16° Υ 20'50	1°37'53	minimum elong	5740 Jun 17 18:29	0° Θ 06'31	1°45'01
max. Earth dist.	5734 Apr 05 08:58	16° Υ 21'00	10.87345 AU	max. Earth dist.	5740 Jun 17 21:22	0° Θ 07'25	10.43979 AU
morning rise	5734 Apr 22 02:32	18° Υ 20'51		morning rise	5740 Jul 05 06:27	2° Θ 16'53	
retrograde	5734 Aug 03 05:38	25° Υ 40'26		retrograde	5740 Oct 19 06:02	10° Θ 11'31	
opposition	5734 Oct 12 20:31	22° Υ 19'21	-2°09'39	opposition	5740 Dec 27 10:59	6° Θ 44'16	-1°58'59
min. Earth dist.	5734 Oct 12 19:38	22° Υ 19'31	8.85222 AU	min. Earth dist.	5740 Dec 27 08:37	6° Θ 44'44	8.40009 AU
direct	5734 Dec 21 07:34	19° Υ 00'31		direct	5741 Mar 04 18:57	3° Θ 21'03	
evening set	5735 Mar 31 14:35	26° Υ 10'40		evening set	5741 Jun 13 20:50	10° Θ 58'39	
conjunction	5735 Apr 17 07:30	28° Υ 10'50	-1°52'23	conjunction	5741 Jul 01 09:16	13° Θ 10'04	-1°26'14
minimum elong	5735 Apr 17 07:28	28° Υ 10'50	1°52'25	minimum elong	5741 Jul 01 09:19	13° Θ 10'05	1°26'15
max. Earth dist.	5735 Apr 17 08:51	28° Υ 11'15	10.82497 AU	max. Earth dist.	5741 Jul 01 12:24	13° Θ 11'03	10.36069 AU
	5735 May 02 11:00	0° \mathcal{B}		morning rise	5741 Jul 19 01:33	15° Θ 22'43	
morning rise	5735 May 04 02:51	0° \mathcal{B} 11'48		retrograde	5741 Nov 02 02:30	23° Θ 21'54	
retrograde	5735 Aug 15 21:30	7° \mathcal{B} 36'42		opposition	5742 Jan 09 21:05	19° Θ 53'59	-1°32'45
opposition	5735 Oct 25 11:12	4° \mathcal{B} 14'38	-2°24'48	min. Earth dist.	5742 Jan 09 18:35	19° Θ 54'29	8.32447 AU
min. Earth dist.	5735 Oct 25 09:33	4° \mathcal{B} 14'56	8.79646 AU	direct	5742 Mar 17 23:56	16° Θ 29'38	
direct	5736 Jan 02 13:57	0° \mathcal{B} 55'34		evening set	5742 Jun 27 14:44	24° Θ 13'18	
evening set	5736 Apr 11 16:35	8° \mathcal{B} 08'22		conjunction	5742 Jul 15 07:26	26° Θ 26'54	-1°02'39
conjunction	5736 Apr 28 11:00	10° \mathcal{B} 09'42	-2°02'11	minimum elong	5742 Jul 15 07:28	26° Θ 26'55	1°02'40
minimum elong	5736 Apr 28 10:59	10° \mathcal{B} 09'42	2°02'13	max. Earth dist.	5742 Jul 15 09:51	26° Θ 27'40	10.29016 AU
max. Earth dist.	5736 Apr 28 12:58	10° \mathcal{B} 10'18	10.76225 AU	morning rise	5742 Aug 02 03:37	28° Θ 41'37	
morning rise	5736 May 15 08:22	12° \mathcal{B} 11'59			5742 Aug 12 20:42	0° \mathcal{Q}	
	5736 Jun 09 02:22	15° \mathcal{B}		retrograde	5742 Nov 16 02:37	6° \mathcal{Q} 44'15	
retrograde	5736 Aug 27 19:33	19° \mathcal{B} 42'49		opposition	5743 Jan 23 10:18	3° \mathcal{Q} 15'56	-1°01'06
opposition	5736 Nov 06 04:39	16° \mathcal{B} 19'40	-2°33'50	min. Earth dist.	5743 Jan 23 08:22	3° \mathcal{Q} 16'20	8.25945 AU
min. Earth dist.	5736 Nov 06 02:31	16° \mathcal{B} 20'04	8.72795 AU		5743 Mar 18 06:55	30° $\mathcal{R}\Theta$	
	5736 Nov 24 02:53	15° $\mathcal{R}\mathcal{B}$		direct	5743 Mar 31 09:10	29° Θ 50'28	
direct	5737 Jan 13 20:49	13° \mathcal{B} 00'08			5743 Apr 13 12:18	0° \mathcal{Q}	
	5737 Mar 03 17:34	15° \mathcal{B}		evening set	5743 Jul 11 15:50	7° \mathcal{Q} 40'01	
evening set	5737 Apr 23 23:42	20° \mathcal{B} 16'33		conjunction	5743 Jul 29 12:16	9° \mathcal{Q} 55'31	-0°35'21
conjunction	5737 May 10 20:18	22° \mathcal{B} 19'23	-2°06'41	minimum elong	5743 Jul 29 12:17	9° \mathcal{Q} 55'31	0°35'22
minimum elong	5737 May 10 20:18	22° \mathcal{B} 19'23	2°06'42	max. Earth dist.	5743 Jul 29 13:46	9° \mathcal{Q} 56'00	10.23209 AU
max. Earth dist.	5737 May 10 22:00	22° \mathcal{B} 19'54	10.68865 AU	morning rise	5743 Aug 16 11:37	12° \mathcal{Q} 11'55	
morning rise	5737 May 27 20:33	24° \mathcal{B} 23'21			5743 Sep 08 22:56	15° \mathcal{Q}	
	5737 Jul 21 17:39	0° \mathcal{I}		retrograde	5743 Nov 30 04:51	20° \mathcal{Q} 16'43	
retrograde	5737 Sep 09 20:38	2° \mathcal{I} 00'22		opposition	5744 Feb 06 02:03	16° \mathcal{Q} 48'15	-0°25'36
	5737 Oct 31 07:04	30° $\mathcal{R}\mathcal{B}$		min. Earth dist.	5744 Feb 06 00:53	16° \mathcal{Q} 48'29	8.20875 AU
opposition	5737 Nov 19 01:04	28° \mathcal{B} 36'07	-2°36'05		5744 Feb 29 10:52	15° $\mathcal{R}\mathcal{Q}$	
min. Earth dist.	5737 Nov 18 23:14	28° \mathcal{B} 36'28	8.65023 AU	direct	5744 Apr 13 00:25	13° \mathcal{Q} 21'44	
direct	5738 Jan 26 07:20	25° \mathcal{B} 15'51			5744 May 25 22:33	15° \mathcal{Q}	
	5738 Apr 13 20:20	0° \mathcal{I}		evening set	5744 Jul 24 23:14	21° \mathcal{Q} 16'43	
evening set	5738 May 06 12:37	2° \mathcal{I} 36'47		conjunction	5744 Aug 11 22:32	23° \mathcal{Q} 33'38	-0°05'50
conjunction	5738 May 23 12:15	4° \mathcal{I} 41'27	-2°05'25	minimum elong	5744 Aug 11 22:33	23° \mathcal{Q} 33'38	0°05'51
minimum elong	5738 May 23 12:15	4° \mathcal{I} 41'27	2°05'27	behind sun begin	5744 Aug 11 15:34	23° \mathcal{Q} 31'26	
max. Earth dist.	5738 May 23 13:39	4° \mathcal{I} 41'53	10.60782 AU	behind sun end	5744 Aug 12 05:32	23° \mathcal{Q} 35'51	
morning rise	5738 Jun 09 16:03	6° \mathcal{I} 47'23		max. Earth dist.	5744 Aug 11 23:16	23° \mathcal{Q} 33'51	10.18974 AU
retrograde	5738 Sep 23 02:24	14° \mathcal{I} 30'37		morning rise	5744 Aug 29 23:55	25° \mathcal{Q} 51'12	
opposition	5738 Dec 02 00:56	11° \mathcal{I} 05'16	-2°31'04		5744 Oct 04 19:28	0° \mathcal{M}	
min. Earth dist.	5738 Dec 01 23:25	11° \mathcal{I} 05'33	8.56702 AU	asc. node	5744 Oct 23 17:13	1° \mathcal{M} 45'13	
direct	5739 Feb 07 23:03	7° \mathcal{I} 44'07		retrograde	5744 Dec 13 06:19	3° \mathcal{M} 56'46	
evening set	5739 May 19 07:56	15° \mathcal{I} 10'09		opposition	5745 Feb 18 19:45	0° \mathcal{M} 28'25	0°11'42
conjunction	5739 Jun 05 11:24	17° \mathcal{I} 16'57	-1°58'11	min. Earth dist.	5745 Feb 18 19:10	0° \mathcal{M} 28'32	8.17525 AU
minimum elong	5739 Jun 05 11:25	17° \mathcal{I} 16'57	1°58'12		5745 Feb 24 15:17	30° $\mathcal{R}\mathcal{Q}$	
max. Earth dist.	5739 Jun 05 13:28	17° \mathcal{I} 17'35	10.52352 AU	direct	5745 Apr 26 20:59	27° \mathcal{Q} 01'01	
morning rise	5739 Jun 22 19:10	19° \mathcal{I} 25'03			5745 Jun 24 21:51	0° \mathcal{M}	
retrograde	5739 Oct 06 14:00	27° \mathcal{I} 14'16		evening set	5745 Aug 08 11:44	5° \mathcal{M} 00'37	
opposition	5739 Dec 15 04:16	23° \mathcal{I} 47'54	-2°18'38	conjunction	5745 Aug 26 12:42	7° \mathcal{M} 18'23	0°24'19
min. Earth dist.	5739 Dec 15 02:26	23° \mathcal{I} 48'16	8.48228 AU	minimum elong	5745 Aug 26 12:40	7° \mathcal{M} 18'22	0°24'19
direct	5740 Feb 20 18:31	20° \mathcal{I} 25'46		max. Earth dist.	5745 Aug 26 13:03	7° \mathcal{M} 18'29	10.16555 AU
evening set	5740 May 31 10:34	27° \mathcal{I} 57'25		morning rise	5745 Sep 13 14:33	9° \mathcal{M} 36'25	
	5740 Jun 16 21:40	0° Θ		retrograde	5745 Dec 27 07:47	17° \mathcal{M} 41'18	

opposition	5746 Mar 04 14:33	14° \mathring{M} 13'21	0°48'33	min. Earth dist.	5752 May 23 10:58	5° \mathring{A} 11'48	8.45165 AU
min. Earth dist.	5746 Mar 04 13:56	14° \mathring{M} 13'28	8.16100 AU	direct	5752 Jul 31 20:43	1° \mathring{A} 45'15	
direct	5746 May 10 20:07	10° \mathring{M} 45'17		evening set	5752 Nov 14 16:59	9° \mathring{A} 36'17	
evening set	5746 Aug 23 03:17	18° \mathring{M} 48'22					
conjunction	5746 Sep 10 04:34	21° \mathring{M} 06'18	0°53'06	conjunction	5752 Dec 02 02:16	11° \mathring{A} 45'13	2°01'58
minimum elong	5746 Sep 10 04:32	21° \mathring{M} 06'17	0°53'05	minimum elong	5752 Dec 02 02:17	11° \mathring{A} 45'13	2°01'59
max. Earth dist.	5746 Sep 10 04:59	21° \mathring{M} 06'25	10.16117 AU	max. Earth dist.	5752 Dec 02 00:04	11° \mathring{A} 44'32	10.49242 AU
morning rise	5746 Sep 28 05:29	23° \mathring{M} 24'08		morning rise	5752 Dec 19 07:25	13° \mathring{A} 52'55	
retrograde	5746 Dec 01 01:30	0° \mathring{A}		retrograde	5753 Mar 29 22:26	21° \mathring{A} 22'26	
retrograde	5747 Jan 10 08:50	1° \mathring{A} 26'54		opposition	5753 Jun 05 14:32	18° \mathring{A} 01'26	2°25'10
	5747 Feb 20 04:08	30° \mathring{R} \mathring{M}		min. Earth dist.	5753 Jun 05 15:45	18° \mathring{A} 01'12	8.53579 AU
opposition	5747 Mar 18 09:45	27° \mathring{M} 59'35	1°22'39	direct	5753 Aug 14 11:17	14° \mathring{A} 35'30	
min. Earth dist.	5747 Mar 18 09:03	27° \mathring{M} 59'44	8.16706 AU	evening set	5753 Nov 27 22:44	22° \mathring{A} 20'06	
direct	5747 May 24 20:23	24° \mathring{M} 31'07		conjunction	5753 Dec 15 05:05	24° \mathring{A} 27'06	1°51'42
	5747 Aug 16 05:16	0° \mathring{A}		minimum elong	5753 Dec 15 05:07	24° \mathring{A} 27'06	1°51'44
evening set	5747 Sep 06 19:45	2° \mathring{A} 36'14		max. Earth dist.	5753 Dec 15 03:09	24° \mathring{A} 26'30	10.57659 AU
conjunction	5747 Sep 24 20:02	4° \mathring{A} 53'41	1°18'48	morning rise	5754 Jan 01 07:15	26° \mathring{A} 32'53	
minimum elong	5747 Sep 24 19:59	4° \mathring{A} 53'40	1°18'48		5754 Jan 31 20:23	0° \mathring{B}	
max. Earth dist.	5747 Sep 24 20:15	4° \mathring{A} 53'45	10.17706 AU	retrograde	5754 Apr 11 15:44	3° \mathring{B} 56'24	
morning rise	5747 Oct 12 18:48	7° \mathring{A} 10'41		opposition	5754 Jun 18 15:38	0° \mathring{B} 36'16	2°09'00
retrograde	5748 Jan 24 08:13	15° \mathring{A} 09'57		min. Earth dist.	5754 Jun 18 17:35	0° \mathring{B} 35'53	8.61826 AU
opposition	5748 Mar 31 04:29	11° \mathring{A} 43'31	1°51'53		5754 Jun 26 12:20	30° \mathring{R} \mathring{A}	
min. Earth dist.	5748 Mar 31 04:09	11° \mathring{A} 43'35	8.19312 AU	direct	5754 Aug 27 19:32	27° \mathring{A} 11'16	
direct	5748 Jun 06 22:19	8° \mathring{A} 14'54			5754 Oct 26 16:28	0° \mathring{B}	
evening set	5748 Sep 20 11:00	16° \mathring{A} 20'29		evening set	5754 Dec 10 20:33	4° \mathring{B} 49'17	
conjunction	5748 Oct 08 09:07	18° \mathring{A} 36'49	1°39'55	conjunction	5754 Dec 28 00:12	6° \mathring{B} 54'32	1°36'16
minimum elong	5748 Oct 08 09:05	18° \mathring{A} 36'48	1°39'55	minimum elong	5754 Dec 28 00:14	6° \mathring{B} 54'32	1°36'19
max. Earth dist.	5748 Oct 08 08:46	18° \mathring{A} 36'42	10.21229 AU	max. Earth dist.	5754 Dec 27 21:25	6° \mathring{B} 53'40	10.65671 AU
morning rise	5748 Oct 26 04:45	20° \mathring{A} 52'26		morning rise	5755 Jan 13 23:59	8° \mathring{B} 58'39	
retrograde	5749 Feb 06 01:57	28° \mathring{A} 47'00		retrograde	5755 Apr 24 03:57	16° \mathring{B} 16'58	
opposition	5749 Apr 13 21:45	25° \mathring{A} 21'38	2°14'33	opposition	5755 Jul 01 13:00	12° \mathring{B} 57'34	1°47'07
min. Earth dist.	5749 Apr 13 22:16	25° \mathring{A} 21'31	8.23765 AU	min. Earth dist.	5755 Jul 01 15:53	12° \mathring{B} 57'01	8.69454 AU
direct	5749 Jun 21 01:20	21° \mathring{A} 53'08		direct	5755 Sep 09 22:14	9° \mathring{B} 33'33	
evening set	5749 Oct 04 22:32	29° \mathring{A} 57'25		evening set	5755 Dec 23 11:09	17° \mathring{B} 05'17	
	5749 Oct 05 06:51	0° \mathring{M}		conjunction	5756 Jan 09 12:20	19° \mathring{B} 08'59	1°16'39
conjunction	5749 Oct 22 17:40	2° \mathring{M} 12'11	1°55'15	minimum elong	5756 Jan 09 12:23	19° \mathring{B} 08'59	1°16'41
minimum elong	5749 Oct 22 17:37	2° \mathring{M} 12'11	1°55'15	max. Earth dist.	5756 Jan 09 08:34	19° \mathring{B} 07'50	10.72893 AU
max. Earth dist.	5749 Oct 22 16:22	2° \mathring{M} 11'47	10.26489 AU	morning rise	5756 Jan 26 10:16	21° \mathring{B} 11'42	
morning rise	5749 Nov 09 09:41	4° \mathring{M} 26'02		retrograde	5756 May 05 11:41	28° \mathring{B} 25'55	
retrograde	5750 Feb 19 14:52	12° \mathring{M} 14'57		opposition	5756 Jul 13 07:23	25° \mathring{B} 07'03	1°20'46
opposition	5750 Apr 27 12:57	8° \mathring{M} 50'44	2°29'28	min. Earth dist.	5756 Jul 13 10:25	25° \mathring{B} 06'28	8.76158 AU
min. Earth dist.	5750 Apr 27 14:15	8° \mathring{M} 50'28	8.29809 AU	direct	5756 Sep 21 22:12	21° \mathring{B} 44'00	
direct	5750 Jul 05 02:52	5° \mathring{M} 22'36		evening set	5757 Jan 03 19:16	29° \mathring{B} 09'53	
evening set	5750 Oct 19 04:07	13° \mathring{M} 23'51			5757 Jan 10 19:15	0° \mathring{A}	
	5750 Oct 31 23:27	15° \mathring{M}		conjunction	5757 Jan 20 18:21	1° \mathring{A} 12'15	0°53'52
conjunction	5750 Nov 05 19:54	15° \mathring{M} 36'46	2°04'07	minimum elong	5757 Jan 20 18:23	1° \mathring{A} 12'15	0°53'54
minimum elong	5750 Nov 05 19:53	15° \mathring{M} 36'46	2°04'08	max. Earth dist.	5757 Jan 20 14:42	1° \mathring{A} 11'08	10.79083 AU
max. Earth dist.	5750 Nov 05 17:44	15° \mathring{M} 36'05	10.33182 AU	morning rise	5757 Feb 06 14:43	3° \mathring{A} 13'47	
morning rise	5750 Nov 23 08:11	17° \mathring{M} 48'37		retrograde	5757 May 17 18:41	10° \mathring{A} 25'05	
retrograde	5751 Mar 04 22:57	25° \mathring{M} 31'15		opposition	5757 Jul 25 23:07	7° \mathring{A} 06'28	0°51'15
opposition	5751 May 11 01:06	22° \mathring{M} 08'10	2°36'07	min. Earth dist.	5757 Jul 26 01:12	7° \mathring{A} 06'05	8.81736 AU
min. Earth dist.	5751 May 11 02:36	22° \mathring{M} 07'53	8.37085 AU	direct	5757 Oct 04 16:30	3° \mathring{A} 44'21	
direct	5751 Jul 19 01:23	18° \mathring{M} 40'38		evening set	5758 Jan 15 22:12	11° \mathring{A} 04'59	
evening set	5751 Nov 02 02:37	26° \mathring{M} 37'20		conjunction	5758 Feb 01 19:34	13° \mathring{A} 06'15	0°29'00
conjunction	5751 Nov 19 15:04	28° \mathring{M} 48'16	2°06'17	minimum elong	5758 Feb 01 19:35	13° \mathring{A} 06'15	0°29'01
minimum elong	5751 Nov 19 15:04	28° \mathring{M} 48'16	2°06'18	max. Earth dist.	5758 Feb 01 17:11	13° \mathring{A} 05'32	10.84046 AU
max. Earth dist.	5751 Nov 19 12:38	28° \mathring{M} 47'30	10.40918 AU		5758 Feb 17 15:22	15° \mathring{A}	
	5751 Nov 29 04:14	0° \mathring{A}		morning rise	5758 Feb 18 14:35	15° \mathring{A} 06'51	
morning rise	5751 Dec 06 23:40	0° \mathring{A} 58'01		retrograde	5758 May 29 23:46	22° \mathring{A} 16'21	
retrograde	5752 Mar 17 01:17	8° \mathring{A} 34'02		opposition	5758 Aug 07 12:33	18° \mathring{A} 57'46	0°19'54
opposition	5752 May 23 09:38	5° \mathring{A} 12'04	2°34'30	min. Earth dist.	5758 Aug 07 14:00	18° \mathring{A} 57'29	8.86007 AU
				direct	5758 Oct 17 05:27	15° \mathring{A} 36'27	

evening set	5759 Jan 27 21:07	22° \approx 52'42		min. Earth dist.	5764 Oct 19 10:53	29° Υ 27'56	8.79614 AU
				direct	5764 Dec 27 18:10	26° Υ 08'03	
conjunction	5759 Feb 13 16:52	24° \approx 53'04	0°03'10		5765 Mar 07 20:06	0° \mathcal{B}	
minimum elong	5759 Feb 13 16:52	24° \approx 53'04	0°03'10	evening set	5765 Apr 06 23:14	3° \mathcal{B} 20'36	
behind sun begin	5759 Feb 13 09:54	24° \approx 51'00					
behind sun end	5759 Feb 13 23:51	24° \approx 55'08		conjunction	5765 Apr 23 16:52	5° \mathcal{B} 21'41	-1°58'46
max. Earth dist.	5759 Feb 13 15:05	24° \approx 52'35	10.87608 AU	minimum elong	5765 Apr 23 16:51	5° \mathcal{B} 21'41	1°58'47
morning rise	5759 Mar 02 10:55	26° \approx 53'00		max. Earth dist.	5765 Apr 23 18:20	5° \mathcal{B} 22'08	10.76611 AU
desc. node	5759 Mar 30 13:09	29° \approx 59'11		morning rise	5765 May 10 13:34	7° \mathcal{B} 23'40	
	5759 Mar 30 16:24	0° \mathcal{H}		retrograde	5765 Aug 22 17:39	14° \mathcal{B} 52'50	
retrograde	5759 Jun 11 04:26	4° \mathcal{H} 01'55		opposition	5765 Nov 01 05:10	11° \mathcal{B} 29'35	-2°31'00
opposition	5759 Aug 20 00:34	0° \mathcal{H} 43'08	-0°12'02	min. Earth dist.	5765 Nov 01 03:21	11° \mathcal{B} 29'55	8.73589 AU
min. Earth dist.	5759 Aug 20 01:57	0° \mathcal{H} 42'53	8.88820 AU	direct	5766 Jan 09 01:17	8° \mathcal{B} 09'42	
	5759 Aug 29 17:11	30° $\mathcal{R}\approx$			5766 Apr 15 14:54	15° \mathcal{B}	
direct	5759 Oct 29 15:37	27° \approx 22'28		evening set	5766 Apr 19 04:27	15° \mathcal{B} 25'25	
	5759 Dec 26 15:27	0° \mathcal{H}					
evening set	5760 Feb 08 17:14	4° \mathcal{H} 35'18		conjunction	5766 May 06 00:06	17° \mathcal{B} 27'49	-2°05'32
				minimum elong	5766 May 06 00:05	17° \mathcal{B} 27'49	2°05'34
conjunction	5760 Feb 25 11:26	6° \mathcal{H} 35'02	-0°22'48	max. Earth dist.	5766 May 06 02:36	17° \mathcal{B} 28'35	10.70057 AU
minimum elong	5760 Feb 25 11:26	6° \mathcal{H} 35'01	0°22'48	morning rise	5766 May 22 23:10	19° \mathcal{B} 31'16	
max. Earth dist.	5760 Feb 25 09:35	6° \mathcal{H} 34'29	10.89647 AU	retrograde	5766 Sep 04 16:27	27° \mathcal{B} 06'29	
morning rise	5760 Mar 13 04:55	8° \mathcal{H} 34'32		opposition	5766 Nov 14 00:36	23° \mathcal{B} 42'14	-2°36'07
retrograde	5760 Jun 22 08:00	15° \mathcal{H} 44'08		min. Earth dist.	5766 Nov 13 21:59	23° \mathcal{B} 42'45	8.66599 AU
opposition	5760 Aug 31 11:42	12° \mathcal{H} 24'56	-0°43'19	direct	5767 Jan 21 11:47	20° \mathcal{B} 21'55	
min. Earth dist.	5760 Aug 31 13:02	12° \mathcal{H} 24'41	8.90088 AU	evening set	5767 May 01 15:08	27° \mathcal{B} 41'41	
direct	5760 Nov 09 22:35	9° \mathcal{H} 04'47					
evening set	5761 Feb 19 11:44	16° \mathcal{H} 15'17		conjunction	5767 May 18 13:34	29° \mathcal{B} 45'45	-2°06'42
				minimum elong	5767 May 18 13:34	29° \mathcal{B} 45'45	2°06'43
conjunction	5761 Mar 08 04:49	18° \mathcal{H} 14'38	-0°47'38	max. Earth dist.	5767 May 18 17:19	29° \mathcal{B} 46'54	10.62700 AU
minimum elong	5761 Mar 08 04:47	18° \mathcal{H} 14'37	0°47'38		5767 May 20 11:54	0° \mathcal{I}	
max. Earth dist.	5761 Mar 08 03:26	18° \mathcal{H} 14'13	10.90105 AU	morning rise	5767 Jun 04 15:41	1° \mathcal{I} 51'00	
morning rise	5761 Mar 24 22:01	20° \mathcal{H} 14'00		retrograde	5767 Sep 17 21:59	9° \mathcal{I} 32'24	
retrograde	5761 Jul 04 12:25	27° \mathcal{H} 25'30		opposition	5767 Nov 26 23:28	6° \mathcal{I} 07'13	-2°34'06
opposition	5761 Sep 12 22:28	24° \mathcal{H} 05'42	-1°12'45	min. Earth dist.	5767 Nov 26 19:54	6° \mathcal{I} 07'54	8.58961 AU
min. Earth dist.	5761 Sep 12 22:48	24° \mathcal{H} 05'38	8.89771 AU	direct	5768 Feb 03 01:31	2° \mathcal{I} 46'18	
direct	5761 Nov 22 04:52	20° \mathcal{H} 45'55		evening set	5768 May 13 08:05	10° \mathcal{I} 10'46	
evening set	5762 Mar 03 05:50	27° \mathcal{H} 55'14					
				conjunction	5768 May 30 09:57	12° \mathcal{I} 16'49	-2°01'54
conjunction	5762 Mar 19 22:21	29° \mathcal{H} 54'31	-1°10'32	minimum elong	5768 May 30 09:59	12° \mathcal{I} 16'50	2°01'56
minimum elong	5762 Mar 19 22:19	29° \mathcal{H} 54'30	1°10'32	max. Earth dist.	5768 May 30 13:54	12° \mathcal{I} 18'02	10.54886 AU
max. Earth dist.	5762 Mar 19 22:28	29° \mathcal{H} 54'33	10.88963 AU	morning rise	5768 Jun 16 15:55	14° \mathcal{I} 24'09	
	5762 Mar 20 16:38	0° Υ		retrograde	5768 Sep 30 09:33	22° \mathcal{I} 11'33	
morning rise	5762 Apr 05 15:32	1° Υ 54'02		opposition	5768 Dec 09 01:53	18° \mathcal{I} 45'31	-2°24'40
retrograde	5762 Jul 16 21:41	9° Υ 08'36		min. Earth dist.	5768 Dec 08 22:18	18° \mathcal{I} 46'14	8.51035 AU
opposition	5762 Sep 25 09:40	5° Υ 48'03	-1°39'15	direct	5769 Feb 14 17:48	15° \mathcal{I} 23'52	
min. Earth dist.	5762 Sep 25 08:45	5° Υ 48'13	8.87865 AU	evening set	5769 May 26 08:16	22° \mathcal{I} 53'39	
direct	5762 Dec 04 09:43	2° Υ 28'30					
evening set	5763 Mar 15 01:03	9° Υ 37'46		conjunction	5769 Jun 12 14:10	25° \mathcal{I} 01'52	-1°51'06
				minimum elong	5769 Jun 12 14:12	25° \mathcal{I} 01'53	1°51'07
conjunction	5763 Mar 31 17:20	11° Υ 37'18	-1°30'33	max. Earth dist.	5769 Jun 12 17:43	25° \mathcal{I} 02'58	10.46990 AU
minimum elong	5763 Mar 31 17:18	11° Υ 37'17	1°30'34	morning rise	5769 Jun 30 00:25	27° \mathcal{I} 11'25	
max. Earth dist.	5763 Mar 31 18:34	11° Υ 37'40	10.86250 AU		5769 Jul 24 02:45	0° \mathcal{E}	
morning rise	5763 Apr 17 10:57	13° Υ 37'17		retrograde	5769 Oct 14 00:12	5° \mathcal{E} 04'18	
retrograde	5763 Jul 29 08:10	20° Υ 55'55		opposition	5769 Dec 22 07:42	1° \mathcal{E} 37'35	-2°07'52
opposition	5763 Oct 07 22:03	17° Υ 34'32	-2°01'46	min. Earth dist.	5769 Dec 22 04:36	1° \mathcal{E} 38'12	8.43214 AU
min. Earth dist.	5763 Oct 07 20:25	17° Υ 34'51	8.84433 AU		5770 Jan 12 19:34	30° $\mathcal{R}\mathcal{I}$	
direct	5763 Dec 16 12:40	14° Υ 15'04		direct	5770 Feb 27 16:27	28° \mathcal{I} 15'03	
evening set	5764 Mar 25 22:31	21° Υ 25'27			5770 Apr 13 09:56	0° \mathcal{E}	
				evening set	5770 Jun 08 15:53	5° \mathcal{E} 50'34	
conjunction	5764 Apr 11 15:05	23° Υ 25'34	-1°46'53	conjunction	5770 Jun 26 02:13	8° \mathcal{E} 01'02	-1°34'32
minimum elong	5764 Apr 11 15:03	23° Υ 25'33	1°46'54	minimum elong	5770 Jun 26 02:16	8° \mathcal{E} 01'03	1°34'33
max. Earth dist.	5764 Apr 11 16:15	23° Υ 25'55	10.82078 AU	max. Earth dist.	5770 Jun 26 05:33	8° \mathcal{E} 02'05	10.39405 AU
morning rise	5764 Apr 28 09:53	25° Υ 26'22		morning rise	5770 Jul 13 16:51	10° \mathcal{E} 12'48	
	5764 Jun 10 13:19	0° \mathcal{B}		retrograde	5770 Oct 27 18:14	18° \mathcal{E} 10'27	
retrograde	5764 Aug 09 22:26	2° \mathcal{B} 49'57		opposition	5771 Jan 04 17:03	14° \mathcal{E} 43'10	-1°44'10
	5764 Oct 12 08:32	30° $\mathcal{R}\Upsilon$		min. Earth dist.	5771 Jan 04 14:20	14° \mathcal{E} 43'42	8.35899 AU
opposition	5764 Oct 19 12:27	29° Υ 27'39	-2°19'18				

direct	5771 Mar 12 21:07	11°♊19'41		opposition	5777 Mar 25 21:37	6°♊20'25	1°40'33
evening set	5771 Jun 22 06:54	19°♊00'59		min. Earth dist.	5777 Mar 25 22:33	6°♊20'14	8.19158 AU
				direct	5777 Jun 01 12:38	2°♊52'10	
conjunction	5771 Jul 09 21:46	21°♊13'40 -1°12'47		evening set	5777 Sep 14 19:37	10°♊57'16	
minimum elong	5771 Jul 09 21:49	21°♊13'41 1°12'48					
max. Earth dist.	5771 Jul 10 01:29	21°♊14'51 10.32516 AU		conjunction	5777 Oct 02 18:32	13°♊13'57	1°31'52
morning rise	5771 Jul 27 16:27	23°♊27'32		minimum elong	5777 Oct 02 18:29	13°♊13'56	1°31'52
	5771 Sep 29 23:21	0°♊		max. Earth dist.	5777 Oct 02 16:35	13°♊13'20	10.20549 AU
retrograde	5771 Nov 10 16:45	1°♊28'53		morning rise	5777 Oct 20 15:37	15°♊30'04	
	5771 Dec 22 22:21	30°♊		retrograde	5778 Jan 31 18:14	23°♊26'17	
opposition	5772 Jan 18 05:27	28°♊01'12 -1°14'32		opposition	5778 Apr 08 15:21	20°♊00'40	2°06'05
min. Earth dist.	5772 Jan 18 02:39	28°♊01'46 8.29461 AU		min. Earth dist.	5778 Apr 08 16:20	20°♊00'28	8.22561 AU
direct	5772 Mar 25 05:52	24°♊36'44		direct	5778 Jun 15 16:18	16°♊32'16	
	5772 Jun 15 05:58	0°♊		evening set	5778 Sep 29 08:28	24°♊36'46	
evening set	5772 Jul 05 05:26	2°♊23'42					
				conjunction	5778 Oct 17 04:53	26°♊52'07	1°49'41
conjunction	5772 Jul 23 00:27	4°♊38'22 -0°46'49		minimum elong	5778 Oct 17 04:50	26°♊52'06	1°49'42
minimum elong	5772 Jul 23 00:29	4°♊38'22 0°46'51		max. Earth dist.	5778 Oct 17 02:56	26°♊51'29	10.24799 AU
max. Earth dist.	5772 Jul 23 04:13	4°♊39'33 10.26657 AU		morning rise	5778 Nov 03 22:29	29°♊06'37	
morning rise	5772 Aug 09 22:31	6°♊54'00			5778 Nov 11 03:40	0°♊	
retrograde	5772 Nov 23 18:26	14°♊57'46		retrograde	5779 Feb 14 09:09	6°♊57'35	
opposition	5773 Jan 30 20:16	11°♊29'52 -0°40'24		opposition	5779 Apr 22 06:59	3°♊32'53	2°24'18
min. Earth dist.	5773 Jan 30 17:35	11°♊30'25 8.24201 AU		min. Earth dist.	5779 Apr 22 07:53	3°♊32'42	8.27649 AU
direct	5773 Apr 07 18:41	8°♊04'23		direct	5779 Jun 29 17:33	0°♊04'34	
	5773 Jul 11 18:46	15°♊		evening set	5779 Oct 13 16:19	8°♊06'44	
evening set	5773 Jul 19 10:35	15°♊56'43					
				conjunction	5779 Oct 31 09:41	10°♊20'23	2°01'17
conjunction	5773 Aug 06 08:52	18°♊12'57 -0°18'01		minimum elong	5779 Oct 31 09:39	10°♊20'23	2°01'18
minimum elong	5773 Aug 06 08:53	18°♊12'57 0°18'03		max. Earth dist.	5779 Oct 31 07:53	10°♊19'49	10.30599 AU
max. Earth dist.	5773 Aug 06 11:43	18°♊13'51 10.22082 AU		morning rise	5779 Nov 17 23:27	12°♊32'59	
morning rise	5773 Aug 24 09:17	20°♊29'53			5779 Dec 08 11:55	15°♊	
retrograde	5773 Dec 07 20:59	28°♊34'47		retrograde	5780 Feb 27 19:52	20°♊17'55	
opposition	5774 Feb 13 13:13	25°♊06'55 -0°03'37		opposition	5780 May 04 19:57	16°♊54'11	2°34'26
min. Earth dist.	5774 Feb 13 11:17	25°♊07'19 8.20331 AU		min. Earth dist.	5780 May 04 21:18	16°♊53'55	8.34107 AU
asc. node	5774 Mar 22 03:36	22°♊30'06			5780 May 30 01:21	15°♊	
direct	5774 Apr 21 12:28	21°♊40'30		direct	5780 Jul 12 16:09	13°♊26'11	
evening set	5774 Aug 02 21:01	29°♊37'39			5780 Aug 24 19:45	15°♊	
	5774 Aug 05 20:11	0°♊		evening set	5780 Oct 26 17:28	21°♊24'28	
conjunction	5774 Aug 20 21:22	1°♊54'56 0°12'05		conjunction	5780 Nov 13 07:28	23°♊36'13	2°06'15
minimum elong	5774 Aug 20 21:21	1°♊54'56 0°12'04		minimum elong	5780 Nov 13 07:27	23°♊36'12	2°06'16
behind sun begin	5774 Aug 20 16:28	1°♊53'23		max. Earth dist.	5780 Nov 13 05:19	23°♊35'32	10.37596 AU
behind sun end	5774 Aug 21 02:14	1°♊56'29		morning rise	5780 Nov 30 17:25	25°♊46'46	
max. Earth dist.	5774 Aug 20 22:45	1°♊55'22 10.18979 AU			5781 Jan 07 03:19	0°♊	
morning rise	5774 Sep 07 22:55	4°♊12'38		retrograde	5781 Mar 12 00:33	3°♊25'13	
retrograde	5774 Dec 21 23:31	12°♊17'26		opposition	5781 May 18 05:36	0°♊02'29	2°36'14
opposition	5775 Feb 27 07:40	8°♊49'51 0°33'39		min. Earth dist.	5781 May 18 07:42	0°♊02'04	8.41560 AU
min. Earth dist.	5775 Feb 27 06:53	8°♊50'01 8.18064 AU			5781 May 18 18:09	30°♊	
direct	5775 May 05 09:37	5°♊22'38		direct	5781 Jul 26 12:03	26°♊35'01	
evening set	5775 Aug 17 11:27	13°♊23'48			5781 Sep 30 05:38	0°♊	
				evening set	5781 Nov 09 10:45	4°♊28'10	
conjunction	5775 Sep 04 12:35	15°♊41'32 0°41'34		conjunction	5781 Nov 26 21:20	6°♊37'55	2°04'36
minimum elong	5775 Sep 04 12:33	15°♊41'31 0°41'33		minimum elong	5781 Nov 26 21:21	6°♊37'55	2°04'37
max. Earth dist.	5775 Sep 04 12:17	15°♊41'26 10.17591 AU		max. Earth dist.	5781 Nov 26 18:28	6°♊37'01	10.45405 AU
morning rise	5775 Sep 22 13:57	17°♊59'21		morning rise	5781 Dec 14 03:52	8°♊46'26	
retrograde	5776 Jan 05 01:03	26°♊02'39		retrograde	5782 Mar 24 22:11	16°♊18'23	
opposition	5776 Mar 12 02:42	22°♊35'34 1°09'06		opposition	5782 May 31 11:33	12°♊56'36	2°30'04
min. Earth dist.	5776 Mar 12 03:07	22°♊35'29 8.17639 AU		min. Earth dist.	5782 May 31 14:08	12°♊56'06	8.49610 AU
direct	5776 May 18 09:46	19°♊07'43		direct	5782 Aug 09 04:47	9°♊29'50	
evening set	5776 Aug 31 03:49	27°♊11'39		evening set	5782 Nov 22 19:30	17°♊16'58	
conjunction	5776 Sep 18 04:26	29°♊29'10 1°08'43		conjunction	5782 Dec 10 03:00	19°♊24'45	1°56'45
minimum elong	5776 Sep 18 04:23	29°♊29'09 1°08'43		minimum elong	5782 Dec 10 03:02	19°♊24'46	1°56'46
max. Earth dist.	5776 Sep 18 02:56	29°♊28'42 10.18107 AU		max. Earth dist.	5782 Dec 09 23:37	19°♊23'42	10.53614 AU
	5776 Sep 22 04:45	0°♊		morning rise	5782 Dec 27 06:35	21°♊31'21	
morning rise	5776 Oct 06 04:15	1°♊46'27		retrograde	5783 Apr 06 15:56	28°♊57'06	
retrograde	5777 Jan 17 23:56	9°♊46'50					

opposition	5783 Jun 13 13:36	25° ♁ 36'12	2°16'39	minimum elong	5789 Feb 19 18:03	1° ♁ 46'45	0°11'36
min. Earth dist.	5783 Jun 13 15:57	25° ♁ 35'44	8.57837 AU	behind sun begin	5789 Feb 19 12:59	1° ♁ 45'15	
direct	5783 Aug 22 15:40	22° ♁ 10'19		behind sun end	5789 Feb 19 23:06	1° ♁ 48'15	
evening set	5783 Dec 05 20:07	29° ♁ 50'57		max. Earth dist.	5789 Feb 19 17:31	1° ♁ 46'36	10.90528 AU
	5783 Dec 07 02:11	0° ♁		morning rise	5789 Mar 08 11:40	3° ♁ 46'11	
				retrograde	5789 Jun 17 09:36	10° ♁ 54'26	
conjunction	5783 Dec 23 00:51	1° ♁ 56'55	1°43'24	opposition	5789 Aug 26 10:32	7° ♁ 35'43	-0°29'47
minimum elong	5783 Dec 23 00:54	1° ♁ 56'56	1°43'25	min. Earth dist.	5789 Aug 26 10:09	7° ♁ 35'47	8.91541 AU
max. Earth dist.	5783 Dec 22 21:45	1° ♁ 55'58	10.61807 AU	direct	5789 Nov 05 00:19	4° ♁ 15'42	
morning rise	5784 Jan 09 01:47	4° ♁ 01'44		evening set	5790 Feb 14 17:39	11° ♁ 26'10	
retrograde	5784 Apr 18 05:12	11° ♁ 21'54					
opposition	5784 Jun 25 11:51	8° ♁ 01'46	1°57'04	conjunction	5790 Mar 03 11:15	13° ♁ 25'24	-0°36'55
min. Earth dist.	5784 Jun 25 13:27	8° ♁ 01'28	8.65840 AU	minimum elong	5790 Mar 03 11:13	13° ♁ 25'24	0°36'54
direct	5784 Sep 03 20:46	4° ♁ 36'54		max. Earth dist.	5790 Mar 03 11:42	13° ♁ 25'32	10.92136 AU
evening set	5784 Dec 17 12:58	12° ♁ 10'59		morning rise	5790 Mar 20 04:17	15° ♁ 24'32	
				retrograde	5790 Jun 29 13:43	22° ♁ 34'04	
conjunction	5785 Jan 03 15:19	14° ♁ 15'18	1°25'27	opposition	5790 Sep 07 20:30	19° ♁ 15'00	-1°00'03
minimum elong	5785 Jan 03 15:22	14° ♁ 15'18	1°25'29	min. Earth dist.	5790 Sep 07 19:53	19° ♁ 15'07	8.92343 AU
max. Earth dist.	5785 Jan 03 13:15	14° ♁ 14'40	10.69597 AU	direct	5790 Nov 17 05:02	15° ♁ 55'36	
morning rise	5785 Jan 20 13:59	16° ♁ 18'33		evening set	5791 Feb 26 11:22	23° ♁ 04'20	
retrograde	5785 Apr 30 15:03	23° ♁ 34'02					
opposition	5785 Jul 08 06:50	20° ♁ 14'33	1°32'29	conjunction	5791 Mar 15 03:55	25° ♁ 03'19	-1°00'42
min. Earth dist.	5785 Jul 08 08:07	20° ♁ 14'18	8.73266 AU	minimum elong	5791 Mar 15 03:53	25° ♁ 03'19	1°00'41
direct	5785 Sep 16 20:58	16° ♁ 50'46		max. Earth dist.	5791 Mar 15 04:05	25° ♁ 03'22	10.92083 AU
evening set	5785 Dec 29 22:53	24° ♁ 18'34		morning rise	5791 Mar 31 20:54	27° ♁ 02'27	
					5791 Apr 27 15:27	0° ♁	
conjunction	5786 Jan 15 23:01	26° ♁ 21'24	1°03'56	retrograde	5791 Jul 11 20:12	4° ♁ 14'25	
minimum elong	5786 Jan 15 23:03	26° ♁ 21'25	1°03'57	opposition	5791 Sep 20 06:53	0° ♁ 54'51	-1°27'51
max. Earth dist.	5786 Jan 15 21:23	26° ♁ 20'55	10.76638 AU	min. Earth dist.	5791 Sep 20 06:27	0° ♁ 54'56	8.91483 AU
morning rise	5786 Feb 01 19:54	28° ♁ 23'20			5791 Oct 02 17:02	30° ♁	
	5786 Feb 15 17:58	0° ♁		direct	5791 Nov 29 09:07	27° ♁ 35'51	
retrograde	5786 May 12 22:23	5° ♁ 35'10			5792 Jan 23 08:22	0° ♁	
opposition	5786 Jul 20 22:49	2° ♁ 16'12	1°04'13	evening set	5792 Mar 09 05:24	4° ♁ 43'57	
min. Earth dist.	5786 Jul 21 00:23	2° ♁ 15'54	8.79791 AU				
	5786 Aug 22 22:27	30° ♁		conjunction	5792 Mar 25 21:24	6° ♁ 43'00	-1°22'01
direct	5786 Sep 29 14:54	28° ♁ 53'28		minimum elong	5792 Mar 25 21:22	6° ♁ 43'00	1°22'01
	5786 Nov 05 16:53	0° ♁		max. Earth dist.	5792 Mar 25 21:43	6° ♁ 43'06	10.90363 AU
evening set	5787 Jan 11 03:14	6° ♁ 15'36		morning rise	5792 Apr 11 14:45	8° ♁ 42'26	
				retrograde	5792 Jul 23 03:35	15° ♁ 57'57	
conjunction	5787 Jan 28 01:16	8° ♁ 17'12	0°39'53	opposition	5792 Oct 01 18:09	12° ♁ 37'40	-1°52'08
minimum elong	5787 Jan 28 01:18	8° ♁ 17'12	0°39'54	min. Earth dist.	5792 Oct 01 17:22	12° ♁ 37'48	8.88965 AU
max. Earth dist.	5787 Jan 27 23:11	8° ♁ 16'34	10.82626 AU	direct	5792 Dec 10 12:47	9° ♁ 18'50	
morning rise	5787 Feb 13 20:51	10° ♁ 18'03		evening set	5793 Mar 21 01:05	16° ♁ 27'28	
	5787 Mar 30 23:14	15° ♁					
retrograde	5787 May 25 01:40	17° ♁ 27'24		conjunction	5793 Apr 06 17:18	18° ♁ 26'56	-1°40'01
	5787 Jul 21 23:58	15° ♁		minimum elong	5793 Apr 06 17:16	18° ♁ 26'55	1°40'01
opposition	5787 Aug 02 12:13	14° ♁ 08'44	0°33'34	max. Earth dist.	5793 Apr 06 18:33	18° ♁ 27'19	10.86996 AU
min. Earth dist.	5787 Aug 02 13:50	14° ♁ 08'25	8.85144 AU	morning rise	5793 Apr 23 11:22	20° ♁ 26'59	
direct	5787 Oct 12 05:17	10° ♁ 47'00		retrograde	5793 Aug 04 15:54	27° ♁ 47'01	
	5787 Dec 26 08:28	15° ♁		opposition	5793 Oct 14 06:43	24° ♁ 25'50	-2°11'55
evening set	5788 Jan 23 02:59	18° ♁ 04'19		min. Earth dist.	5793 Oct 14 05:09	24° ♁ 26'07	8.84820 AU
				direct	5793 Dec 22 17:59	21° ♁ 06'58	
conjunction	5788 Feb 08 23:14	20° ♁ 04'51	0°14'24	evening set	5794 Apr 01 23:38	28° ♁ 17'16	
minimum elong	5788 Feb 08 23:15	20° ♁ 04'51	0°14'24		5794 Apr 16 06:37	0° ♁	
behind sun begin	5788 Feb 08 19:54	20° ♁ 03'51					
behind sun end	5788 Feb 09 02:35	20° ♁ 05'50		conjunction	5794 Apr 18 16:41	0° ♁ 17'33	-1°53'55
max. Earth dist.	5788 Feb 08 21:23	20° ♁ 04'18	10.87318 AU	minimum elong	5794 Apr 18 16:39	0° ♁ 17'32	1°53'56
morning rise	5788 Feb 25 17:46	22° ♁ 04'52		max. Earth dist.	5794 Apr 18 18:29	0° ♁ 18'05	10.82034 AU
retrograde	5788 Jun 05 05:06	29° ♁ 13'02		morning rise	5794 May 05 12:08	2° ♁ 18'35	
opposition	5788 Aug 13 23:58	25° ♁ 54'27	0°01'49	retrograde	5794 Aug 17 09:34	9° ♁ 43'58	
min. Earth dist.	5788 Aug 14 00:38	25° ♁ 54'19	8.89111 AU	opposition	5794 Oct 26 21:35	6° ♁ 21'48	-2°26'16
desc. node	5788 Sep 04 12:01	24° ♁ 21'43		min. Earth dist.	5794 Oct 26 19:44	6° ♁ 22'09	8.79130 AU
direct	5788 Oct 23 17:29	22° ♁ 33'38		direct	5795 Jan 03 22:40	3° ♁ 02'43	
evening set	5789 Feb 02 23:14	29° ♁ 47'00		evening set	5795 Apr 14 02:11	10° ♁ 15'48	
	5789 Feb 04 19:33	0° ♁					
				conjunction	5795 Apr 30 20:39	12° ♁ 17'15	-2°03'01
conjunction	5789 Feb 19 18:03	1° ♁ 46'45	-0°11'36	minimum elong	5795 Apr 30 20:38	12° ♁ 17'14	2°03'03

max. Earth dist.	5795 Apr 30 22:00	12°♄17'39	10.75645 AU	morning rise	5801 Aug 04 18:54	0°♄59'45	
morning rise	5795 May 17 18:17	14°♄19'40		retrograde	5801 Nov 18 17:48	9°♄02'47	
	5795 May 23 11:03	15°♄		opposition	5802 Jan 25 23:56	5°♄34'30	-0°56'30
retrograde	5795 Aug 30 06:12	21°♄51'02		min. Earth dist.	5802 Jan 25 22:38	5°♄34'46	8.25234 AU
opposition	5795 Nov 08 15:21	18°♄27'50	-2°34'25	direct	5802 Apr 02 22:44	2°♄08'57	
min. Earth dist.	5795 Nov 08 13:47	18°♄28'08	8.72153 AU	evening set	5802 Jul 14 07:06	9°♄59'16	
direct	5796 Jan 16 06:04	15°♄08'16					
evening set	5796 Apr 25 09:49	22°♄25'10		conjunction	5802 Aug 01 03:53	12°♄14'57	-0°31'29
				minimum elong	5802 Aug 01 03:55	12°♄14'58	0°31'30
conjunction	5796 May 12 06:35	24°♄28'10	-2°06'45	max. Earth dist.	5802 Aug 01 05:09	12°♄15'21	10.22583 AU
minimum elong	5796 May 12 06:35	24°♄28'10	2°06'47	morning rise	5802 Aug 19 03:33	14°♄31'32	
max. Earth dist.	5796 May 12 07:33	24°♄28'27	10.68164 AU		5802 Aug 22 23:16	15°♄	
morning rise	5796 May 29 07:13	26°♄32'18		retrograde	5802 Dec 02 18:32	22°♄36'36	
	5796 Jun 29 04:21	0°♄		opposition	5803 Feb 08 16:07	19°♄08'10	-0°20'40
retrograde	5796 Sep 11 07:54	4°♄09'58		min. Earth dist.	5803 Feb 08 15:04	19°♄08'23	8.20338 AU
opposition	5796 Nov 20 12:16	0°♄45'40	-2°35'42	direct	5803 Apr 16 15:53	15°♄41'35	
min. Earth dist.	5796 Nov 20 11:02	0°♄45'55	8.64264 AU	evening set	5803 Jul 28 15:05	23°♄37'11	
	5796 Nov 30 11:31	30°♄					
direct	5797 Jan 27 18:15	27°♄25'23		conjunction	5803 Aug 15 14:41	25°♄54'15	-0°01'49
	5797 Mar 24 07:05	0°♄		minimum elong	5803 Aug 15 14:41	25°♄54'15	0°01'50
evening set	5797 May 07 23:18	4°♄46'52		behind sun begin	5803 Aug 15 07:22	25°♄51'56	
				behind sun end	5803 Aug 15 22:01	25°♄56'34	
conjunction	5797 May 24 23:21	6°♄51'46	-2°04'42	max. Earth dist.	5803 Aug 15 15:53	25°♄54'35	10.18537 AU
minimum elong	5797 May 24 23:22	6°♄51'46	2°04'44	morning rise	5803 Sep 02 16:07	28°♄11'54	
max. Earth dist.	5797 May 25 00:54	6°♄52'15	10.59975 AU	asc. node	5803 Sep 06 18:12	28°♄42'26	
morning rise	5797 Jun 11 03:31	8°♄57'55			5803 Sep 17 09:50	0°♄	
retrograde	5797 Sep 24 15:06	16°♄41'52		retrograde	5803 Dec 16 20:44	6°♄17'35	
opposition	5797 Dec 03 12:32	13°♄16'29	-2°29'42	opposition	5804 Feb 22 10:04	2°♄49'15	0°16'40
min. Earth dist.	5797 Dec 03 11:00	13°♄16'47	8.55850 AU	min. Earth dist.	5804 Feb 22 09:00	2°♄49'28	8.17196 AU
direct	5798 Feb 09 09:48	9°♄55'19			5804 Apr 02 22:35	30°♄	
evening set	5798 May 20 19:33	17°♄22'02		direct	5804 Apr 29 11:31	29°♄21'48	
					5804 May 25 20:48	0°♄	
conjunction	5798 Jun 06 23:32	19°♄29'05	-1°56'40	evening set	5804 Aug 11 04:04	7°♄21'50	
minimum elong	5798 Jun 06 23:34	19°♄29'05	1°56'41				
max. Earth dist.	5798 Jun 07 02:05	19°♄29'52	10.51467 AU	conjunction	5804 Aug 29 05:12	9°♄39'40	0°28'15
morning rise	5798 Jun 24 07:38	21°♄37'26		minimum elong	5804 Aug 29 05:11	9°♄39'40	0°28'14
retrograde	5798 Oct 08 03:02	29°♄27'21		max. Earth dist.	5804 Aug 29 06:21	9°♄40'02	10.16336 AU
opposition	5798 Dec 16 16:16	26°♄00'58	-2°16'18	morning rise	5804 Sep 16 06:56	11°♄57'43	
min. Earth dist.	5798 Dec 16 14:01	26°♄01'25	8.47319 AU	retrograde	5804 Dec 29 23:36	20°♄02'30	
direct	5799 Feb 22 06:01	22°♄38'48		opposition	5805 Mar 07 04:57	16°♄34'33	0°53'16
	5799 Jun 01 10:24	0°♄		min. Earth dist.	5805 Mar 07 03:49	16°♄34'47	8.15996 AU
evening set	5799 Jun 02 23:08	0°♄11'14		direct	5805 May 13 10:03	13°♄06'26	
				evening set	5805 Aug 25 19:55	21°♄09'47	
conjunction	5799 Jun 20 07:27	2°♄20'35	-1°42'43				
minimum elong	5799 Jun 20 07:30	2°♄20'36	1°42'44	conjunction	5805 Sep 12 21:09	23°♄27'41	0°56'42
max. Earth dist.	5799 Jun 20 10:24	2°♄21'31	10.43067 AU	minimum elong	5805 Sep 12 21:07	23°♄27'40	0°56'41
morning rise	5799 Jul 07 19:51	4°♄31'14		max. Earth dist.	5805 Sep 12 22:00	23°♄27'57	10.16121 AU
retrograde	5799 Oct 21 20:21	12°♄26'32		morning rise	5805 Sep 30 21:48	25°♄45'27	
opposition	5799 Dec 29 23:37	8°♄59'17	-1°55'45		5805 Nov 06 13:18	0°♄	
min. Earth dist.	5799 Dec 29 21:04	8°♄59'47	8.39101 AU	retrograde	5806 Jan 13 00:44	3°♄47'55	
direct	5800 Mar 07 06:29	5°♄36'02		opposition	5806 Mar 21 00:13	0°♄20'37	1°26'48
evening set	5800 Jun 16 10:18	13°♄14'25		min. Earth dist.	5806 Mar 20 23:30	0°♄20'46	8.16825 AU
					5806 Mar 25 05:13	30°♄	
conjunction	5800 Jul 03 23:06	15°♄26'06	-1°23'17	direct	5806 May 27 11:11	26°♄52'05	
minimum elong	5800 Jul 03 23:09	15°♄26'07	1°23'18		5806 Jul 27 13:23	0°♄	
max. Earth dist.	5800 Jul 04 01:36	15°♄26'54	10.35193 AU	evening set	5806 Sep 09 12:14	4°♄57'16	
morning rise	5800 Jul 21 15:52	17°♄39'02					
retrograde	5800 Nov 04 17:59	25°♄38'46		conjunction	5806 Sep 27 12:14	7°♄14'35	1°21'51
opposition	5801 Jan 12 10:20	22°♄10'53	-1°28'45	minimum elong	5806 Sep 27 12:11	7°♄14'34	1°21'51
min. Earth dist.	5801 Jan 12 08:14	22°♄11'19	8.31607 AU	max. Earth dist.	5806 Sep 27 12:18	7°♄14'36	10.17928 AU
direct	5801 Mar 20 11:34	18°♄46'28		morning rise	5806 Oct 15 10:39	9°♄31'27	
evening set	5801 Jun 30 05:11	26°♄30'56		retrograde	5807 Jan 26 22:11	17°♄30'16	
				opposition	5807 Apr 03 18:50	14°♄03'51	1°55'14
conjunction	5801 Jul 17 22:14	28°♄44'46	-0°59'09	min. Earth dist.	5807 Apr 03 18:56	14°♄03'50	8.19646 AU
minimum elong	5801 Jul 17 22:17	28°♄44'47	0°59'10	direct	5807 Jun 10 14:08	10°♄35'10	
max. Earth dist.	5801 Jul 17 23:51	28°♄45'17	10.28241 AU	evening set	5807 Sep 24 03:01	18°♄40'35	
	5801 Jul 27 19:59	0°♄					

conjunction	5807 Oct 12 00:44	20° Ω 56'44	1°42'14	conjunction	5813 Dec 30 10:53	9° Σ 04'28	1°33'48
minimum elong	5807 Oct 12 00:41	20° Ω 56'44	1°42'14	minimum elong	5813 Dec 30 10:55	9° Σ 04'29	1°33'51
max. Earth dist.	5807 Oct 11 23:46	20° Ω 56'26	10.21659 AU	max. Earth dist.	5813 Dec 30 07:45	9° Σ 03'31	10.66741 AU
morning rise	5807 Oct 29 20:04	23° Ω 12'11		morning rise	5814 Jan 16 10:35	11° Σ 08'25	
	5808 Jan 05 16:39	0° \mathbb{M}		retrograde	5814 Apr 26 12:47	18° Σ 26'02	
retrograde	5808 Feb 09 15:10	1° \mathbb{M} 06'08		opposition	5814 Jul 04 00:14	15° Σ 06'43	1°43'45
	5808 Mar 15 22:50	30° \mathbb{R} Ω		min. Earth dist.	5814 Jul 04 02:52	15° Σ 06'12	8.70552 AU
opposition	5808 Apr 16 11:45	27° Ω 40'48	2°16'55	direct	5814 Sep 12 11:24	11° Σ 42'48	
min. Earth dist.	5808 Apr 16 12:41	27° Ω 40'37	8.24294 AU	evening set	5814 Dec 25 21:06	19° Σ 13'37	
direct	5808 Jun 23 16:30	24° Ω 12'14					
	5808 Sep 18 17:05	0° \mathbb{M}		conjunction	5815 Jan 11 22:07	21° Σ 17'07	1°13'43
evening set	5808 Oct 07 13:51	2° \mathbb{M} 16'10		minimum elong	5815 Jan 11 22:09	21° Σ 17'07	1°13'45
				max. Earth dist.	5815 Jan 11 18:35	21° Σ 16'02	10.74002 AU
conjunction	5808 Oct 25 08:36	4° \mathbb{M} 30'45	1°56'44	morning rise	5815 Jan 28 19:57	23° Σ 19'38	
minimum elong	5808 Oct 25 08:34	4° \mathbb{M} 30'44	1°56'44		5815 Apr 13 12:42	0° \approx	
max. Earth dist.	5808 Oct 25 06:44	4° \mathbb{M} 30'09	10.27095 AU	retrograde	5815 May 08 21:45	0° \approx 33'14	
morning rise	5808 Nov 12 00:20	6° \mathbb{M} 44'22			5815 Jun 03 15:38	30° \mathbb{R} Σ	
retrograde	5809 Feb 22 03:49	14° \mathbb{M} 32'36		opposition	5815 Jul 16 17:56	27° Σ 14'25	1°16'56
opposition	5809 Apr 30 02:29	11° \mathbb{M} 08'24	2°30'45	min. Earth dist.	5815 Jul 16 20:14	27° Σ 13'59	8.77243 AU
min. Earth dist.	5809 Apr 30 03:42	11° \mathbb{M} 08'10	8.30490 AU	direct	5815 Sep 25 09:14	23° Σ 51'32	
direct	5809 Jul 07 17:40	7° \mathbb{M} 40'15			5815 Dec 27 04:52	0° \approx	
	5809 Oct 16 04:52	15° \mathbb{M}		evening set	5816 Jan 07 04:26	1° \approx 16'32	
evening set	5809 Oct 21 18:37	15° \mathbb{M} 40'58					
				conjunction	5816 Jan 24 03:28	3° \approx 18'44	0°50'38
conjunction	5809 Nov 08 10:05	17° \mathbb{M} 53'41	2°04'42	minimum elong	5816 Jan 24 03:29	3° \approx 18'44	0°50'39
minimum elong	5809 Nov 08 10:04	17° \mathbb{M} 53'41	2°04'43	max. Earth dist.	5816 Jan 24 00:35	3° \approx 17'51	10.80127 AU
max. Earth dist.	5809 Nov 08 08:01	17° \mathbb{M} 53'02	10.33924 AU	morning rise	5816 Feb 09 23:37	5° \approx 20'06	
morning rise	5809 Nov 25 22:00	20° \mathbb{M} 05'18		retrograde	5816 May 20 03:51	12° \approx 30'53	
retrograde	5810 Mar 07 10:58	27° \mathbb{M} 47'12		opposition	5816 Jul 28 09:06	9° \approx 12'21	0°47'09
opposition	5810 May 13 14:11	24° \mathbb{M} 24'10	2°36'16	min. Earth dist.	5816 Jul 28 10:51	9° \approx 12'01	8.82712 AU
min. Earth dist.	5810 May 13 15:03	24° \mathbb{M} 23'59	8.37878 AU	direct	5816 Oct 07 02:13	5° \approx 50'24	
direct	5810 Jul 21 16:14	20° \mathbb{M} 56'39		evening set	5817 Jan 18 06:47	13° \approx 10'19	
evening set	5810 Nov 04 16:09	28° \mathbb{M} 52'41			5817 Feb 02 14:05	15° \approx	
	5810 Nov 13 17:42	0° \mathbb{X}					
conjunction	5810 Nov 22 04:22	1° \mathbb{X} 03'25	2°05'59	conjunction	5817 Feb 04 04:00	15° \approx 11'25	0°25'36
minimum elong	5810 Nov 22 04:22	1° \mathbb{X} 03'25	2°06'01	minimum elong	5817 Feb 04 04:01	15° \approx 11'25	0°25'37
max. Earth dist.	5810 Nov 22 02:44	1° \mathbb{X} 02'54	10.41758 AU	max. Earth dist.	5817 Feb 04 01:47	15° \approx 10'45	10.84945 AU
morning rise	5810 Dec 09 12:34	3° \mathbb{X} 12'57		morning rise	5817 Feb 20 22:51	17° \approx 11'52	
retrograde	5811 Mar 20 12:56	10° \mathbb{X} 48'15		retrograde	5817 Jun 01 09:11	24° \approx 21'03	
opposition	5811 May 26 22:15	7° \mathbb{X} 26'20	2°33'35	opposition	5817 Aug 09 22:19	21° \approx 02'33	0°15'40
min. Earth dist.	5811 May 26 23:07	7° \mathbb{X} 26'09	8.46040 AU	min. Earth dist.	5817 Aug 10 00:12	21° \approx 02'12	8.86817 AU
direct	5811 Aug 04 10:35	3° \mathbb{X} 59'36		direct	5817 Oct 19 15:08	17° \approx 41'24	
evening set	5811 Nov 18 05:37	11° \mathbb{X} 49'53		evening set	5818 Jan 30 05:13	24° \approx 57'04	
				desc. node	5818 Feb 11 04:11	26° \approx 22'21	
conjunction	5811 Dec 05 14:42	13° \mathbb{X} 58'37	2°00'50	conjunction	5818 Feb 16 00:45	26° \approx 57'20	-0°00'21
minimum elong	5811 Dec 05 14:43	13° \mathbb{X} 58'37	2°00'52	minimum elong	5818 Feb 16 00:43	26° \approx 57'19	0°00'21
max. Earth dist.	5811 Dec 05 13:14	13° \mathbb{X} 58'09	10.50156 AU	behind sun begin	5818 Feb 15 17:44	26° \approx 55'15	
morning rise	5811 Dec 22 19:31	16° \mathbb{X} 06'06		behind sun end	5818 Feb 16 07:43	26° \approx 59'24	
retrograde	5812 Apr 01 10:54	23° \mathbb{X} 34'55		max. Earth dist.	5818 Feb 15 22:13	26° \approx 56'38	10.88320 AU
opposition	5812 Jun 08 02:44	20° \mathbb{X} 14'00	2°23'17	morning rise	5818 Mar 04 18:47	28° \approx 57'09	
min. Earth dist.	5812 Jun 08 04:05	20° \mathbb{X} 13'44	8.54523 AU		5818 Mar 13 20:01	0° \mathbb{H}	
direct	5812 Aug 16 23:03	16° \mathbb{X} 48'10		retrograde	5818 Jun 13 12:45	6° \mathbb{H} 05'55	
evening set	5812 Nov 30 10:38	24° \mathbb{X} 31'59		opposition	5818 Aug 22 10:03	2° \mathbb{H} 47'13	-0°16'12
				min. Earth dist.	5818 Aug 22 12:01	2° \mathbb{H} 46'51	8.89428 AU
conjunction	5812 Dec 17 16:41	26° \mathbb{X} 38'48	1°49'50		5818 Oct 05 16:03	30° \mathbb{R} \approx	
minimum elong	5812 Dec 17 16:43	26° \mathbb{X} 38'48	1°49'52	direct	5818 Oct 31 23:52	29° \approx 26'42	
max. Earth dist.	5812 Dec 17 14:47	26° \mathbb{X} 38'12	10.58644 AU		5818 Nov 27 01:35	0° \mathbb{H}	
morning rise	5813 Jan 03 18:39	28° \mathbb{X} 44'24		evening set	5819 Feb 11 01:03	6° \mathbb{H} 39'08	
	5813 Jan 14 09:30	0° Σ					
retrograde	5813 Apr 14 02:12	6° Σ 07'11		conjunction	5819 Feb 27 19:07	8° \mathbb{H} 38'46	-0°26'07
opposition	5813 Jun 21 03:23	2° Σ 47'09	2°06'17	minimum elong	5819 Feb 27 19:06	8° \mathbb{H} 38'46	0°26'07
min. Earth dist.	5813 Jun 21 05:40	2° Σ 46'43	8.62851 AU	max. Earth dist.	5819 Feb 27 16:45	8° \mathbb{H} 38'04	10.90138 AU
	5813 Aug 02 13:45	30° \mathbb{R} \mathbb{X}		morning rise	5819 Mar 16 12:36	10° \mathbb{H} 38'13	
direct	5813 Aug 30 07:29	29° \mathbb{X} 22'16		retrograde	5819 Jun 25 15:46	17° \mathbb{H} 47'50	
	5813 Sep 26 21:38	0° Σ		opposition	5819 Sep 03 20:52	14° \mathbb{H} 28'41	-0°47'16
evening set	5813 Dec 13 07:34	6° Σ 59'26		min. Earth dist.	5819 Sep 03 22:10	14° \mathbb{H} 28'27	8.90458 AU

direct	5819 Nov 13 08:19	11° ✕ 08'39	direct	5826 Jan 23 21:25	22° 8 29'34
evening set	5820 Feb 22 19:25	18° ✕ 18'56	evening set	5826 May 04 00:56	29° 8 49'52
				5826 May 05 10:30	0° II
conjunction	5820 Mar 10 12:30	20° ✕ 18'15 -0°50'44	conjunction	5826 May 20 23:39	1° II 54'10 -2°06'20
minimum elong	5820 Mar 10 12:28	20° ✕ 18'14 0°50'44	minimum elong	5826 May 20 23:40	1° II 54'11 2°06'21
max. Earth dist.	5820 Mar 10 11:31	20° ✕ 17'57 10.90345 AU	max. Earth dist.	5826 May 21 02:55	1° II 55'11 10.61635 AU
morning rise	5820 Mar 27 05:35	22° ✕ 17'34	morning rise	5826 Jun 07 02:10	3° II 59'40
retrograde	5820 Jul 06 22:38	29° ✕ 29'16	retrograde	5826 Sep 20 10:38	11° II 41'45
opposition	5820 Sep 15 07:37	26° ✕ 09'28 -1°16'21	opposition	5826 Nov 29 10:05	8° II 16'25 -2°33'12
min. Earth dist.	5820 Sep 15 07:30	26° ✕ 09'30 8.89881 AU	min. Earth dist.	5826 Nov 29 06:53	8° II 17'02 8.57832 AU
direct	5820 Nov 24 14:06	22° ✕ 49'48	direct	5827 Feb 05 10:03	4° II 55'20
evening set	5821 Mar 05 13:32	29° ✕ 59'00	evening set	5827 May 16 18:39	12° II 20'29
	5821 Mar 05 16:57	0° Y			
conjunction	5821 Mar 22 06:01	1° Y 58'17 -1°13'17	conjunction	5827 Jun 02 20:49	14° II 26'46 -2°00'46
minimum elong	5821 Mar 22 05:59	1° Y 58'16 1°13'16	minimum elong	5827 Jun 02 20:50	14° II 26'46 2°00'47
max. Earth dist.	5821 Mar 22 06:19	1° Y 58'22 10.88940 AU	max. Earth dist.	5827 Jun 02 23:46	14° II 27'41 10.53712 AU
morning rise	5821 Apr 07 23:08	3° Y 57'49	morning rise	5827 Jun 20 03:16	16° II 34'22
retrograde	5821 Jul 19 06:44	11° Y 12'41	retrograde	5827 Oct 03 20:59	24° II 22'29
opposition	5821 Sep 27 18:57	7° Y 52'07 -1°42'22	opposition	5827 Dec 12 13:04	20° II 56'17 -2°22'49
min. Earth dist.	5821 Sep 27 18:10	7° Y 52'16 8.87717 AU	min. Earth dist.	5827 Dec 12 10:14	20° II 56'51 8.49820 AU
direct	5821 Dec 06 16:41	4° Y 32'38	direct	5828 Feb 18 04:24	17° II 34'26
evening set	5822 Mar 17 09:02	11° Y 41'58	evening set	5828 May 28 19:34	25° II 05'00
conjunction	5822 Apr 03 01:14	13° Y 41'31 -1°32'51	conjunction	5828 Jun 15 01:55	27° II 13'29 -1°49'12
minimum elong	5822 Apr 03 01:11	13° Y 41'31 1°32'51	minimum elong	5828 Jun 15 01:57	27° II 13'30 1°49'14
max. Earth dist.	5822 Apr 03 01:37	13° Y 41'39 10.85977 AU	max. Earth dist.	5828 Jun 15 05:06	27° II 14'29 10.45762 AU
morning rise	5822 Apr 19 18:59	15° Y 41'34	morning rise	5828 Jul 02 12:41	29° II 23'19
retrograde	5822 Jul 31 17:21	23° Y 00'37		5828 Jul 07 13:33	0° ☾
opposition	5822 Oct 10 07:24	19° Y 39'11 -2°04'15	retrograde	5828 Oct 16 11:37	7° ☾ 16'56
min. Earth dist.	5822 Oct 10 06:37	19° Y 39'20 8.84043 AU	opposition	5828 Dec 24 19:28	3° ☾ 50'03 -2°05'06
direct	5822 Dec 18 21:34	16° Y 19'41	min. Earth dist.	5828 Dec 24 16:44	3° ☾ 50'35 8.41974 AU
evening set	5823 Mar 29 06:45	23° Y 30'18	direct	5829 Mar 02 04:38	0° ☾ 27'18
			evening set	5829 Jun 11 04:04	8° ☾ 03'37
conjunction	5823 Apr 14 23:20	25° Y 30'30 -1°48'37	conjunction	5829 Jun 28 15:00	10° ☾ 14'25 -1°31'55
minimum elong	5823 Apr 14 23:18	25° Y 30'29 1°48'38	minimum elong	5829 Jun 28 15:02	10° ☾ 14'25 1°31'57
max. Earth dist.	5823 Apr 14 23:46	25° Y 30'38 10.81570 AU	max. Earth dist.	5829 Jun 28 18:45	10° ☾ 15'36 10.38179 AU
morning rise	5823 May 01 18:20	27° Y 31'24	morning rise	5829 Jul 16 06:03	12° ☾ 26'29
	5823 May 23 14:48	0° 8	retrograde	5829 Oct 30 07:48	20° ☾ 24'48
retrograde	5823 Aug 13 08:10	4° 8 55'30	opposition	5830 Jan 07 05:18	16° ☾ 57'22 -1°40'34
opposition	5823 Oct 22 21:57	1° 8 33'07 -2°21'04	min. Earth dist.	5830 Jan 07 02:17	16° ☾ 57'58 8.34693 AU
min. Earth dist.	5823 Oct 22 20:55	1° 8 33'19 8.78996 AU	direct	5830 Mar 15 08:42	13° ☾ 33'42
	5823 Nov 13 06:06	30° 8 Y	evening set	5830 Jun 24 20:09	21° ☾ 15'51
direct	5823 Dec 31 03:01	28° Y 13'28			
	5824 Feb 15 08:36	0° 8	conjunction	5830 Jul 12 11:33	23° ☾ 28'50 -1°09'34
evening set	5824 Apr 09 07:47	5° 8 26'22	minimum elong	5830 Jul 12 11:36	23° ☾ 28'51 1°09'35
conjunction	5824 Apr 26 01:38	7° 8 27'34 -1°59'52	max. Earth dist.	5830 Jul 12 15:56	23° ☾ 30'13 10.31354 AU
minimum elong	5824 Apr 26 01:37	7° 8 27'33 1°59'53	morning rise	5830 Jul 30 06:32	25° ☾ 42'58
max. Earth dist.	5824 Apr 26 03:20	7° 8 28'05 10.75886 AU		5830 Sep 05 21:53	0° ♈
morning rise	5824 May 12 22:27	9° 8 29'41	retrograde	5830 Nov 13 07:16	3° ♈ 44'57
	5824 Jul 06 02:52	15° 8	opposition	5831 Jan 20 18:13	0° ♈ 17'09 -1°10'16
retrograde	5824 Aug 25 02:53	16° 8 59'29	min. Earth dist.	5831 Jan 20 14:48	0° ♈ 17'50 8.28363 AU
	5824 Oct 15 16:38	15° 8 8		5831 Jan 24 07:36	30° 8 ☾
opposition	5824 Nov 03 14:57	13° 8 36'05 -2°31'56	direct	5831 Mar 28 17:57	26° ☾ 52'31
min. Earth dist.	5824 Nov 03 12:54	13° 8 36'28 8.72767 AU		5831 May 28 06:39	0° ♈
direct	5825 Jan 11 10:45	10° 8 16'07	evening set	5831 Jul 08 19:40	4° ♈ 40'22
	5825 Mar 30 09:12	15° 8			
evening set	5825 Apr 21 13:32	17° 8 32'18	conjunction	5831 Jul 26 15:02	6° ♈ 55'17 -0°43'10
conjunction	5825 May 08 09:29	19° 8 34'53 -2°05'56	minimum elong	5831 Jul 26 15:04	6° ♈ 55'17 0°43'11
minimum elong	5825 May 08 09:28	19° 8 34'52 2°05'57	max. Earth dist.	5831 Jul 26 19:05	6° ♈ 56'34 10.25652 AU
max. Earth dist.	5825 May 08 12:23	19° 8 35'46 10.69143 AU	morning rise	5831 Aug 13 13:20	9° ♈ 11'09
morning rise	5825 May 25 08:44	21° 8 38'31		5831 Oct 06 15:09	15° ♈
retrograde	5825 Sep 07 04:06	29° 8 14'25	retrograde	5831 Nov 27 09:00	17° ♈ 15'26
				5832 Jan 19 03:43	15° 8 ♈
opposition	5825 Nov 16 10:44	25° 8 50'01 -2°36'10	opposition	5832 Feb 03 09:40	13° ♈ 47'29 -0°35'40
min. Earth dist.	5825 Nov 16 07:49	25° 8 50'34 8.65606 AU	min. Earth dist.	5832 Feb 03 06:43	13° ♈ 48'05 8.23314 AU

direct	5832 Apr 10 07:54	10°♏21'53		opposition	5838 Apr 24 20:57	5°♍51'38	2°25'59
	5832 Jun 24 13:58	15°♏		min. Earth dist.	5838 Apr 24 21:54	5°♍51'26	8.28253 AU
evening set	5832 Jul 22 01:42	18°♏15'00		direct	5838 Jul 02 07:05	2°♍23'25	
				evening set	5838 Oct 16 07:33	10°♍25'21	
conjunction	5832 Aug 09 00:10	20°♏31'25	-0°14'07				
minimum elong	5832 Aug 09 00:11	20°♏31'26	0°14'08	conjunction	5838 Nov 03 00:32	12°♍38'50	2°02'13
behind sun begin	5832 Aug 08 20:48	20°♏30'22		minimum elong	5838 Nov 03 00:31	12°♍38'50	2°02'14
behind sun end	5832 Aug 09 03:34	20°♏32'30		max. Earth dist.	5838 Nov 02 22:44	12°♍38'16	10.31266 AU
max. Earth dist.	5832 Aug 09 02:54	20°♏32'17	10.21344 AU	morning rise	5838 Nov 20 13:54	14°♍51'15	
morning rise	5832 Aug 27 00:49	22°♏48'32			5838 Nov 21 18:12	15°♍	
	5832 Nov 08 16:23	0°♐		retrograde	5839 Mar 02 09:26	22°♍35'39	
retrograde	5832 Dec 10 11:54	0°♐53'44		opposition	5839 May 08 09:47	19°♍12'07	2°35'00
	5833 Jan 11 10:02	30°♐♏		min. Earth dist.	5839 May 08 11:38	19°♍11'45	8.34836 AU
asc. node	5833 Feb 03 02:34	28°♏28'26		direct	5839 Jul 16 06:50	15°♍44'14	
opposition	5833 Feb 16 03:06	27°♏25'51	0°01'17	evening set	5839 Oct 30 08:05	23°♍42'09	
min. Earth dist.	5833 Feb 16 01:19	27°♏26'13	8.19761 AU				
direct	5833 Apr 24 01:44	23°♏59'18		conjunction	5839 Nov 16 21:40	25°♍53'42	2°06'16
	5833 Jul 20 12:38	0°♐		minimum elong	5839 Nov 16 21:40	25°♍53'42	2°06'17
evening set	5833 Aug 05 12:55	1°♐57'05		max. Earth dist.	5839 Nov 16 18:53	25°♍52'49	10.38375 AU
				morning rise	5839 Dec 04 07:23	28°♍04'05	
conjunction	5833 Aug 23 13:17	4°♐14'27	0°16'00		5839 Dec 20 10:50	0°♐	
minimum elong	5833 Aug 23 13:16	4°♐14'27	0°16'00	retrograde	5840 Mar 14 12:22	5°♐41'58	
max. Earth dist.	5833 Aug 23 14:14	4°♐14'45	10.18582 AU	opposition	5840 May 20 19:05	2°♐19'25	2°35'42
morning rise	5833 Sep 10 14:56	6°♐32'13		min. Earth dist.	5840 May 20 21:31	2°♐18'57	8.42382 AU
retrograde	5833 Dec 24 14:39	14°♐37'00			5840 Jun 22 01:59	30°♐♍	
opposition	5834 Mar 01 21:42	11°♐09'27	0°38'25	direct	5840 Jul 29 03:19	28°♍52'05	
min. Earth dist.	5834 Mar 01 21:16	11°♐09'33	8.17833 AU		5840 Sep 03 20:25	0°♐	
direct	5834 May 08 00:03	7°♐42'08		evening set	5840 Nov 12 00:37	6°♐44'44	
evening set	5834 Aug 20 03:39	15°♐43'44					
				conjunction	5840 Nov 29 10:53	8°♐54'17	2°03'45
conjunction	5834 Sep 07 04:42	18°♐01'28	0°45'16	minimum elong	5840 Nov 29 10:54	8°♐54'17	2°03'47
minimum elong	5834 Sep 07 04:40	18°♐01'27	0°45'15	max. Earth dist.	5840 Nov 29 07:31	8°♐53'14	10.46261 AU
max. Earth dist.	5834 Sep 07 04:10	18°♐01'18	10.17504 AU	morning rise	5840 Dec 16 17:13	11°♐02'38	
morning rise	5834 Sep 25 05:58	20°♐19'15		retrograde	5841 Mar 27 10:57	18°♐34'00	
retrograde	5835 Jan 07 15:13	28°♐22'23		opposition	5841 Jun 03 00:44	15°♐12'22	2°28'30
opposition	5835 Mar 15 16:51	24°♐55'22	1°13'27	min. Earth dist.	5841 Jun 03 02:58	15°♐11'56	8.50482 AU
min. Earth dist.	5835 Mar 15 17:12	24°♐55'18	8.17689 AU	direct	5841 Aug 11 18:32	11°♐45'46	
direct	5835 May 22 01:30	21°♐27'30		evening set	5841 Nov 25 08:30	19°♐32'14	
evening set	5835 Sep 03 19:58	29°♐31'41					
	5835 Sep 07 14:05	0°♑		conjunction	5841 Dec 12 15:48	21°♐39'52	1°55'07
				minimum elong	5841 Dec 12 15:50	21°♐39'52	1°55'09
conjunction	5835 Sep 21 20:28	1°♑49'08	1°11'57	max. Earth dist.	5841 Dec 12 12:46	21°♐38'55	10.54504 AU
minimum elong	5835 Sep 21 20:25	1°♑49'07	1°11'57	morning rise	5841 Dec 29 19:08	23°♐46'17	
max. Earth dist.	5835 Sep 21 19:18	1°♑48'45	10.18269 AU		5842 Mar 03 05:28	0°♑	
morning rise	5835 Oct 09 20:02	4°♑06'19		retrograde	5842 Apr 09 03:47	1°♑11'28	
retrograde	5836 Jan 21 13:17	12°♑06'26			5842 May 16 21:39	30°♐♐	
opposition	5836 Mar 28 11:42	8°♑40'07	1°44'11	opposition	5842 Jun 16 02:26	27°♐50'40	2°14'12
min. Earth dist.	5836 Mar 28 12:09	8°♑40'02	8.19431 AU	min. Earth dist.	5842 Jun 16 04:04	27°♐50'21	8.58721 AU
direct	5836 Jun 04 04:23	5°♑11'54		direct	5842 Aug 25 05:10	24°♐24'56	
evening set	5836 Sep 17 11:43	13°♑17'05			5842 Nov 20 11:16	0°♑	
				evening set	5842 Dec 08 08:17	2°♑04'49	
conjunction	5836 Oct 05 10:29	15°♑33'40	1°34'27				
minimum elong	5836 Oct 05 10:26	15°♑33'39	1°34'27	conjunction	5842 Dec 25 12:56	4°♑10'38	1°41'05
max. Earth dist.	5836 Oct 05 09:11	15°♑33'15	10.20913 AU	minimum elong	5842 Dec 25 12:58	4°♑10'39	1°41'07
morning rise	5836 Oct 23 07:09	17°♑49'38		max. Earth dist.	5842 Dec 25 10:44	4°♑09'57	10.62692 AU
retrograde	5837 Feb 03 08:36	25°♑45'29		morning rise	5843 Jan 11 13:36	6°♑15'17	
opposition	5837 Apr 11 05:19	22°♑20'01	2°08'48	retrograde	5843 Apr 21 16:45	13°♑34'55	
min. Earth dist.	5837 Apr 11 05:53	22°♑19'54	8.23014 AU	opposition	5843 Jun 29 00:16	10°♑14'51	1°53'51
direct	5837 Jun 18 06:07	18°♑51'41		min. Earth dist.	5843 Jun 29 01:44	10°♑14'34	8.66702 AU
evening set	5837 Oct 02 00:19	26°♑56'07		direct	5843 Sep 07 10:04	6°♑50'06	
				evening set	5843 Dec 21 00:29	14°♑23'25	
conjunction	5837 Oct 19 20:27	29°♑11'20	1°51'29				
minimum elong	5837 Oct 19 20:25	29°♑11'19	1°51'30	conjunction	5844 Jan 07 02:40	16°♑27'34	1°22'37
max. Earth dist.	5837 Oct 19 19:01	29°♑10'52	10.25328 AU	minimum elong	5844 Jan 07 02:42	16°♑27'35	1°22'39
	5837 Oct 26 05:33	0°♒		max. Earth dist.	5844 Jan 07 00:49	16°♑27'00	10.70441 AU
morning rise	5837 Nov 06 13:34	1°♒25'39		morning rise	5844 Jan 24 01:09	18°♑30'40	
retrograde	5838 Feb 17 00:28	9°♒16'10		retrograde	5844 May 03 03:02	25°♑45'37	

opposition	5844 Jul 10 18:54	22°♄26'11	1°28'42	conjunction	5850 Mar 17 12:27	27°♄09'03	-1°03'42
min. Earth dist.	5844 Jul 10 20:40	22°♄25'51	8.74075 AU	minimum elong	5850 Mar 17 12:25	27°♄09'02	1°03'42
direct	5844 Sep 19 08:31	19°♄02'28		max. Earth dist.	5850 Mar 17 12:14	27°♄08'59	10.92197 AU
evening set	5845 Jan 01 09:46	26°♄29'31		morning rise	5850 Apr 03 05:31	29°♄08'09	
					5850 Apr 10 16:48	0°♄	
conjunction	5845 Jan 18 09:37	28°♄32'12	1°00'42	retrograde	5850 Jul 14 04:43	6°♄20'14	
minimum elong	5845 Jan 18 09:39	28°♄32'13	1°00'43	opposition	5850 Sep 22 17:03	3°♄00'34	-1°31'17
max. Earth dist.	5845 Jan 18 07:27	28°♄31'33	10.77413 AU	min. Earth dist.	5850 Sep 22 16:37	3°♄00'39	8.91522 AU
	5845 Jan 30 12:27	0°♄			5850 Nov 12 09:48	30°♄	
morning rise	5845 Feb 04 06:28	0°♄34'00		direct	5850 Dec 01 18:41	29°♄41'33	
retrograde	5845 May 15 07:35	7°♄45'22			5850 Dec 20 23:29	0°♄	
opposition	5845 Jul 23 10:30	4°♄26'24	1°00'03	evening set	5851 Mar 12 13:58	6°♄49'32	
min. Earth dist.	5845 Jul 23 12:19	4°♄26'03	8.80523 AU				
direct	5845 Oct 02 02:54	1°♄03'42		conjunction	5851 Mar 29 06:03	8°♄48'34	-1°24'35
evening set	5846 Jan 13 13:24	8°♄25'09		minimum elong	5851 Mar 29 06:00	8°♄48'33	1°24'36
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conjunction	5846 Jan 30 11:15	10°♄26'35	0°36'24	morning rise	5851 Apr 14 23:21	10°♄47'59	
minimum elong	5846 Jan 30 11:16	10°♄26'35	0°36'25	retrograde	5851 Jul 26 13:46	18°♄03'45	
max. Earth dist.	5846 Jan 30 09:01	10°♄25'54	10.83312 AU	opposition	5851 Oct 05 04:09	14°♄43'22	-1°54'59
morning rise	5846 Feb 16 06:49	12°♄27'18		min. Earth dist.	5851 Oct 05 02:44	14°♄43'38	8.88858 AU
	5846 Mar 10 21:12	15°♄		direct	5851 Dec 13 23:26	11°♄24'34	
retrograde	5846 May 27 11:33	19°♄36'19		evening set	5852 Mar 23 09:47	18°♄33'10	
opposition	5846 Aug 04 23:25	16°♄17'36	0°29'12				
min. Earth dist.	5846 Aug 05 00:32	16°♄17'23	8.85774 AU	conjunction	5852 Apr 09 02:04	20°♄32'40	-1°42'03
	5846 Aug 22 15:44	15°♄		minimum elong	5852 Apr 09 02:02	20°♄32'39	1°42'04
direct	5846 Oct 14 18:08	12°♄55'54		max. Earth dist.	5852 Apr 09 03:56	20°♄33'14	10.86826 AU
	5846 Dec 04 22:50	15°♄		morning rise	5852 Apr 25 20:08	22°♄32'44	
evening set	5847 Jan 25 12:32	20°♄12'33		retrograde	5852 Aug 07 03:11	29°♄53'05	
				opposition	5852 Oct 16 16:53	26°♄31'50	-2°14'03
conjunction	5847 Feb 11 08:45	22°♄12'59	0°10'50	min. Earth dist.	5852 Oct 16 14:51	26°♄32'13	8.84610 AU
minimum elong	5847 Feb 11 08:45	22°♄12'59	0°10'50	direct	5852 Dec 25 02:25	23°♄13'01	
behind sun begin	5847 Feb 11 03:22	22°♄11'23			5853 Apr 01 01:05	0°♄	
behind sun end	5847 Feb 11 14:09	22°♄14'34		evening set	5853 Apr 04 08:31	0°♄23'21	
max. Earth dist.	5847 Feb 11 07:36	22°♄12'38	10.87886 AU				
morning rise	5847 Feb 28 03:09	24°♄12'53		conjunction	5853 Apr 21 01:34	2°♄23'40	-1°55'20
	5847 Apr 29 03:59	0°♄		minimum elong	5853 Apr 21 01:33	2°♄23'39	1°55'21
retrograde	5847 Jun 08 15:56	1°♄20'47		max. Earth dist.	5853 Apr 21 03:09	2°♄24'08	10.81790 AU
desc. node	5847 Jul 18 04:11	0°♄07'25		morning rise	5853 May 07 21:13	4°♄24'47	
	5847 Jul 20 06:32	30°♄		retrograde	5853 Aug 19 19:22	11°♄50'30	
opposition	5847 Aug 17 10:42	28°♄02'07	-0°02'33	opposition	5853 Oct 29 07:51	8°♄28'17	-2°27'35
min. Earth dist.	5847 Aug 17 10:47	28°♄02'06	8.89609 AU	min. Earth dist.	5853 Oct 29 06:19	8°♄28'34	8.78862 AU
direct	5847 Oct 27 03:54	24°♄41'21		direct	5854 Jan 06 07:31	5°♄09'11	
	5848 Jan 20 14:05	0°♄		evening set	5854 Apr 16 11:24	12°♄22'26	
evening set	5848 Feb 06 08:26	1°♄54'09					
				conjunction	5854 May 03 05:58	14°♄23'57	-2°03'44
conjunction	5848 Feb 23 03:10	3°♄53'48	-0°15'07	minimum elong	5854 May 03 05:57	14°♄23'56	2°03'46
minimum elong	5848 Feb 23 03:09	3°♄53'48	0°15'06	max. Earth dist.	5854 May 03 06:44	14°♄24'11	10.75345 AU
behind sun begin	5848 Feb 23 00:30	3°♄53'01			5854 May 08 04:40	15°♄	
behind sun end	5848 Feb 23 05:48	3°♄54'35		morning rise	5854 May 20 03:54	16°♄26'28	
max. Earth dist.	5848 Feb 23 03:03	3°♄53'46	10.90950 AU	retrograde	5854 Sep 01 16:31	23°♄58'11	
morning rise	5848 Mar 10 20:38	5°♄53'09		opposition	5854 Nov 11 01:33	20°♄34'57	-2°34'51
retrograde	5848 Jun 19 19:09	13°♄01'15		min. Earth dist.	5854 Nov 11 00:33	20°♄35'09	8.71814 AU
opposition	5848 Aug 28 21:02	9°♄42'27	-0°34'00	direct	5855 Jan 18 16:13	17°♄15'22	
min. Earth dist.	5848 Aug 28 20:46	9°♄42'30	8.91887 AU	evening set	5855 Apr 28 19:17	24°♄32'31	
direct	5848 Nov 07 10:10	6°♄22'27					
evening set	5849 Feb 17 02:34	13°♄32'30		conjunction	5855 May 15 16:22	26°♄35'38	-2°06'43
				minimum elong	5855 May 15 16:22	26°♄35'38	2°06'45
conjunction	5849 Mar 05 19:57	15°♄31'39	-0°40'14	max. Earth dist.	5855 May 15 17:26	26°♄35'58	10.67779 AU
minimum elong	5849 Mar 05 19:56	15°♄31'38	0°40'14	morning rise	5855 Jun 01 17:13	28°♄39'54	
max. Earth dist.	5849 Mar 05 19:52	15°♄31'37	10.92403 AU		5855 Jun 13 01:30	0°♄	
morning rise	5849 Mar 22 13:01	17°♄30'43		retrograde	5855 Sep 14 18:43	6°♄17'59	
retrograde	5849 Jul 01 23:33	24°♄40'13		opposition	5855 Nov 23 22:36	2°♄53'41	-2°35'12
opposition	5849 Sep 10 06:53	21°♄21'05	-1°03'57	min. Earth dist.	5855 Nov 23 21:21	2°♄53'55	8.63828 AU
min. Earth dist.	5849 Sep 10 06:51	21°♄21'06	8.92537 AU		5856 Jan 08 11:32	30°♄	
direct	5849 Nov 19 14:58	18°♄01'40		direct	5856 Jan 31 03:43	29°♄33'24	
evening set	5850 Feb 28 20:00	25°♄10'07			5856 Feb 22 13:56	0°♄	
				evening set	5856 May 10 09:11	6°♄55'14	
































































































































conjunction	5856 May 27 09:39	9° Π 00'17	-2°03'54	minimum elong	5862 Aug 17 05:08	28° Ω 10'48	0°02'07
minimum elong	5856 May 27 09:40	9° Π 00'18	2°03'55	behind sun begin	5862 Aug 16 21:48	28° Ω 08'29	
max. Earth dist.	5856 May 27 11:47	9° Π 00'57	10.59489 AU	behind sun end	5862 Aug 17 12:27	28° Ω 13'07	
morning rise	5856 Jun 13 14:02	11° Π 06'36		max. Earth dist.	5862 Aug 17 06:52	28° Ω 11'18	10.18100 AU
retrograde	5856 Sep 27 02:07	18° Π 51'01			5862 Aug 31 11:46	0° \mathbb{M}	
opposition	5856 Dec 05 23:07	15° Π 25'38	-2°28'15	morning rise	5862 Sep 04 06:31	0° \mathbb{M} 28'32	
min. Earth dist.	5856 Dec 05 21:06	15° Π 26'01	8.55317 AU	retrograde	5862 Dec 18 11:28	8° \mathbb{M} 34'21	
direct	5857 Feb 11 20:04	12° Π 04'29		opposition	5863 Feb 23 22:45	5° \mathbb{M} 06'01	0°21'25
evening set	5857 May 23 06:08	19° Π 31'39		min. Earth dist.	5863 Feb 23 21:20	5° \mathbb{M} 06'19	8.16828 AU
				direct	5863 May 01 23:39	1° \mathbb{M} 38'29	
conjunction	5857 Jun 09 10:31	21° Π 38'54	-1°55'06	evening set	5863 Aug 13 18:46	9° \mathbb{M} 39'01	
minimum elong	5857 Jun 09 10:33	21° Π 38'55	1°55'07				
max. Earth dist.	5857 Jun 09 12:57	21° Π 39'39	10.50895 AU	conjunction	5863 Aug 31 19:55	11° \mathbb{M} 56'54	0°31'59
morning rise	5857 Jun 26 18:58	23° Π 47'27		minimum elong	5863 Aug 31 19:54	11° \mathbb{M} 56'54	0°31'58
	5857 Aug 27 03:20	0° \mathfrak{S}		max. Earth dist.	5863 Aug 31 21:15	11° \mathbb{M} 57'20	10.16042 AU
retrograde	5857 Oct 10 15:26	1° \mathfrak{S} 37'50		morning rise	5863 Sep 18 21:31	14° \mathbb{M} 14'59	
	5857 Nov 24 20:36	30° \mathbb{R} Π		retrograde	5864 Jan 01 13:45	22° \mathbb{M} 19'45	
opposition	5857 Dec 19 03:06	28° Π 11'28	-2°13'56	opposition	5864 Mar 08 17:53	18° \mathbb{M} 51'49	0°57'43
min. Earth dist.	5857 Dec 19 00:52	28° Π 11'54	8.46709 AU	min. Earth dist.	5864 Mar 08 16:54	18° \mathbb{M} 52'01	8.15787 AU
direct	5858 Feb 24 15:53	24° Π 49'17		direct	5864 May 14 23:25	15° \mathbb{M} 23'36	
	5858 May 16 08:19	0° \mathfrak{S}		evening set	5864 Aug 27 10:57	23° \mathbb{M} 27'20	
evening set	5858 Jun 05 10:28	2° \mathfrak{S} 22'15					
				conjunction	5864 Sep 14 12:01	25° \mathbb{M} 45'12	1°00'05
conjunction	5858 Jun 22 19:08	4° \mathfrak{S} 31'50	-1°40'26	minimum elong	5864 Sep 14 11:58	25° \mathbb{M} 45'11	1°00'04
minimum elong	5858 Jun 22 19:11	4° \mathfrak{S} 31'51	1°40'27	max. Earth dist.	5864 Sep 14 12:23	25° \mathbb{M} 45'19	10.15992 AU
max. Earth dist.	5858 Jun 22 21:11	4° \mathfrak{S} 32'28	10.42437 AU	morning rise	5864 Oct 02 12:29	28° \mathbb{M} 02'56	
morning rise	5858 Jul 10 08:01	6° \mathfrak{S} 42'43			5864 Oct 18 11:30	0° \mathfrak{L}	
retrograde	5858 Oct 24 09:57	14° \mathfrak{S} 38'26		retrograde	5865 Jan 14 13:49	6° \mathfrak{L} 05'14	
opposition	5859 Jan 01 10:54	11° \mathfrak{S} 11'14	-1°52'32	opposition	5865 Mar 22 13:17	2° \mathfrak{L} 37'58	1°30'43
min. Earth dist.	5859 Jan 01 08:59	11° \mathfrak{S} 11'36	8.38448 AU	min. Earth dist.	5865 Mar 22 13:12	2° \mathfrak{L} 37'59	8.16785 AU
direct	5859 Mar 09 15:56	7° \mathfrak{S} 47'55			5865 Apr 28 05:02	30° \mathbb{R} \mathbb{M}	
evening set	5859 Jun 18 22:18	15° \mathfrak{S} 26'57		direct	5865 May 29 01:17	29° \mathbb{M} 09'19	
					5865 Jun 28 19:06	0° \mathfrak{L}	
conjunction	5859 Jul 06 11:28	17° \mathfrak{S} 38'50	-1°20'23	evening set	5865 Sep 11 03:22	7° \mathfrak{L} 14'44	
minimum elong	5859 Jul 06 11:31	17° \mathfrak{S} 38'51	1°20'24				
max. Earth dist.	5859 Jul 06 13:02	17° \mathfrak{S} 39'20	10.34547 AU	conjunction	5865 Sep 29 03:02	9° \mathfrak{L} 31'57	1°24'42
morning rise	5859 Jul 24 04:42	19° \mathfrak{S} 51'59		minimum elong	5865 Sep 29 02:59	9° \mathfrak{L} 31'56	1°24'42
retrograde	5859 Nov 07 06:18	27° \mathfrak{S} 52'07		max. Earth dist.	5865 Sep 29 02:15	9° \mathfrak{L} 31'42	10.17965 AU
opposition	5860 Jan 14 22:04	24° \mathfrak{S} 24'17	-1°24'49	morning rise	5865 Oct 17 01:13	11° \mathfrak{L} 48'43	
min. Earth dist.	5860 Jan 14 20:43	24° \mathfrak{S} 24'33	8.30963 AU	retrograde	5866 Jan 28 10:51	19° \mathfrak{L} 47'14	
direct	5860 Mar 21 23:36	20° \mathfrak{S} 59'47		opposition	5866 Apr 05 07:53	16° \mathfrak{L} 20'50	1°58'21
evening set	5860 Jul 01 17:55	28° \mathfrak{S} 44'55		min. Earth dist.	5866 Apr 05 08:27	16° \mathfrak{L} 20'43	8.19774 AU
	5860 Jul 11 17:25	0° Ω		direct	5866 Jun 12 03:57	12° \mathfrak{L} 52'03	
				evening set	5866 Sep 25 17:50	20° \mathfrak{L} 57'29	
conjunction	5860 Jul 19 11:25	0° Ω 58'58	-0°55'44				
minimum elong	5860 Jul 19 11:27	0° Ω 58'59	0°55'46	conjunction	5866 Oct 13 15:12	23° \mathfrak{L} 13'31	1°44'22
max. Earth dist.	5860 Jul 19 12:48	0° Ω 59'25	10.27626 AU	minimum elong	5866 Oct 13 15:09	23° \mathfrak{L} 13'30	1°44'22
morning rise	5860 Aug 06 08:27	3° Ω 14'07		max. Earth dist.	5866 Oct 13 13:44	23° \mathfrak{L} 13'03	10.21862 AU
retrograde	5860 Nov 20 05:29	11° Ω 17'30		morning rise	5866 Oct 31 10:15	25° \mathfrak{L} 28'49	
opposition	5861 Jan 27 12:01	7° Ω 49'15	-0°52'03		5866 Dec 10 02:40	0° \mathbb{M}	
min. Earth dist.	5861 Jan 27 10:55	7° Ω 49'28	8.24646 AU	retrograde	5867 Feb 11 03:51	3° \mathbb{M} 22'22	
direct	5861 Apr 04 12:00	4° Ω 23'38			5867 Apr 18 10:01	30° \mathbb{R} \mathfrak{L}	
evening set	5861 Jul 15 20:38	12° Ω 14'34		opposition	5867 Apr 19 00:40	29° \mathfrak{L} 57'02	2°19'04
				min. Earth dist.	5867 Apr 19 01:27	29° \mathfrak{L} 56'53	8.24582 AU
conjunction	5861 Aug 02 17:50	14° Ω 30'28	-0°27'45	direct	5867 Jun 26 06:46	26° \mathfrak{L} 28'25	
minimum elong	5861 Aug 02 17:51	14° Ω 30'28	0°27'46		5867 Aug 31 03:45	0° \mathbb{M}	
max. Earth dist.	5861 Aug 02 19:28	14° Ω 30'59	10.22039 AU	evening set	5867 Oct 10 04:08	4° \mathbb{M} 32'09	
	5861 Aug 06 14:27	15° Ω					
morning rise	5861 Aug 20 17:40	16° Ω 47'11		conjunction	5867 Oct 27 22:37	6° \mathbb{M} 46'35	1°58'03
retrograde	5861 Dec 04 07:32	24° Ω 52'30		minimum elong	5867 Oct 27 22:35	6° \mathbb{M} 46'35	1°58'04
opposition	5862 Feb 10 04:29	21° Ω 24'05	-0°15'56	max. Earth dist.	5867 Oct 27 20:56	6° \mathbb{M} 46'04	10.27454 AU
min. Earth dist.	5862 Feb 10 03:08	21° Ω 24'21	8.19842 AU	morning rise	5867 Nov 14 13:59	9° \mathbb{M} 00'04	
direct	5862 Apr 18 03:56	17° Ω 57'26			5868 Jan 10 14:01	15° \mathbb{M}	
asc. node	5862 Jul 21 23:45	24° Ω 52'29		retrograde	5868 Feb 24 15:26	16° \mathbb{M} 47'48	
evening set	5862 Jul 30 05:18	25° Ω 53'36			5868 Apr 10 18:57	15° \mathbb{R} \mathbb{M}	
				opposition	5868 May 01 15:08	13° \mathbb{M} 23'37	2°31'50
conjunction	5862 Aug 17 05:09	28° Ω 10'48	0°02'08	min. Earth dist.	5868 May 01 15:42	13° \mathbb{M} 23'30	8.30915 AU

direct	5868 Jul 09 08:09	9° \mathbb{M} 55'27		direct	5874 Sep 26 19:48	25° \mathfrak{Z} 59'15	
	5868 Sep 28 11:12	15° \mathbb{M}			5874 Dec 08 20:24	0° \approx	
evening set	5868 Oct 23 08:22	17° \mathbb{M} 55'49		evening set	5875 Jan 08 13:35	3° \approx 23'25	
conjunction	5868 Nov 09 23:37	20° \mathbb{M} 08'23	2°05'09	conjunction	5875 Jan 25 12:30	5° \approx 25'26	0°47'22
minimum elong	5868 Nov 09 23:36	20° \mathbb{M} 08'23	2°05'10	minimum elong	5875 Jan 25 12:31	5° \approx 25'27	0°47'23
max. Earth dist.	5868 Nov 09 22:18	20° \mathbb{M} 07'58	10.34409 AU	max. Earth dist.	5875 Jan 25 10:19	5° \approx 24'47	10.81147 AU
morning rise	5868 Nov 27 11:06	22° \mathbb{M} 19'49		morning rise	5875 Feb 11 08:29	7° \approx 26'38	
	5869 Mar 04 07:29	0° \mathfrak{A}		retrograde	5875 May 22 13:40	14° \approx 36'54	
retrograde	5869 Mar 08 22:50	0° \mathfrak{A} 01'12		opposition	5875 Jul 30 19:06	11° \approx 18'28	0°43'01
	5869 Mar 13 14:35	30° \mathfrak{R} \mathbb{M}		min. Earth dist.	5875 Jul 30 21:02	11° \approx 18'06	8.83718 AU
opposition	5869 May 15 02:33	26° \mathbb{M} 38'11	2°36'16	direct	5875 Oct 09 12:12	7° \approx 56'40	
min. Earth dist.	5869 May 15 03:03	26° \mathbb{M} 38'05	8.38413 AU		5876 Jan 18 09:24	15° \approx	
direct	5869 Jul 23 05:33	23° \mathbb{M} 10'41		evening set	5876 Jan 20 15:21	15° \approx 15'49	
	5869 Oct 28 01:55	0° \mathfrak{A}					
evening set	5869 Nov 06 05:11	1° \mathfrak{A} 06'17		conjunction	5876 Feb 06 12:20	17° \approx 16'46	0°22'12
				minimum elong	5876 Feb 06 12:20	17° \approx 16'46	0°22'12
conjunction	5869 Nov 23 17:09	3° \mathfrak{A} 16'51	2°05'34	max. Earth dist.	5876 Feb 06 09:42	17° \approx 15'59	10.85924 AU
minimum elong	5869 Nov 23 17:10	3° \mathfrak{A} 16'51	2°05'36	morning rise	5876 Feb 23 07:10	19° \approx 17'05	
max. Earth dist.	5869 Nov 23 16:09	3° \mathfrak{A} 16'32	10.42345 AU	retrograde	5876 Jun 02 17:35	26° \approx 25'49	
morning rise	5869 Dec 11 00:57	5° \mathfrak{A} 26'12		opposition	5876 Aug 11 07:56	23° \approx 07'25	0°11'28
retrograde	5870 Mar 22 01:36	13° \mathfrak{A} 00'58		min. Earth dist.	5876 Aug 11 10:14	23° \approx 07'00	8.87752 AU
opposition	5870 May 28 10:27	9° \mathfrak{A} 39'06	2°32'32	direct	5876 Oct 20 23:53	19° \approx 46'26	
min. Earth dist.	5870 May 28 11:29	9° \mathfrak{A} 38'54	8.46672 AU	desc. node	5876 Dec 25 01:34	23° \approx 01'00	
direct	5870 Aug 05 22:05	6° \mathfrak{A} 12'25		evening set	5877 Jan 31 13:12	27° \approx 01'26	
evening set	5870 Nov 19 17:48	14° \mathfrak{A} 02'09					
conjunction	5870 Dec 07 02:35	16° \mathfrak{A} 10'44	1°59'36	conjunction	5877 Feb 17 08:30	29° \approx 01'32	-0°03'48
minimum elong	5870 Dec 07 02:37	16° \mathfrak{A} 10'44	1°59'38	minimum elong	5877 Feb 17 08:29	29° \approx 01'32	0°03'48
max. Earth dist.	5870 Dec 07 01:06	16° \mathfrak{A} 10'16	10.50834 AU	behind sun begin	5877 Feb 17 01:33	28° \approx 59'28	
morning rise	5870 Dec 24 07:11	18° \mathfrak{A} 18'05		behind sun end	5877 Feb 17 15:25	29° \approx 03'35	
retrograde	5871 Apr 03 21:28	25° \mathfrak{A} 46'20		max. Earth dist.	5877 Feb 17 05:38	29° \approx 00'43	10.89197 AU
opposition	5871 Jun 10 14:36	22° \mathfrak{A} 25'32	2°21'17		5877 Feb 25 11:45	0° \mathfrak{H}	
min. Earth dist.	5871 Jun 10 16:18	22° \mathfrak{A} 25'12	8.55242 AU	morning rise	5877 Mar 06 02:32	1° \mathfrak{H} 01'15	
direct	5871 Aug 19 11:35	18° \mathfrak{A} 59'46		retrograde	5877 Jun 14 19:53	8° \mathfrak{H} 09'44	
evening set	5871 Dec 02 22:08	26° \mathfrak{A} 43'01		opposition	5877 Aug 23 19:15	4° \mathfrak{H} 51'06	-0°20'19
				min. Earth dist.	5877 Aug 23 21:00	4° \mathfrak{H} 50'46	8.90238 AU
conjunction	5871 Dec 20 03:54	28° \mathfrak{A} 49'39	1°47'53	direct	5877 Nov 02 09:51	1° \mathfrak{H} 30'45	
minimum elong	5871 Dec 20 03:56	28° \mathfrak{A} 49'40	1°47'54	evening set	5878 Feb 12 08:34	8° \mathfrak{H} 42'38	
max. Earth dist.	5871 Dec 20 01:34	28° \mathfrak{A} 48'56	10.59411 AU				
	5871 Dec 29 16:35	0° \mathfrak{Z}		conjunction	5878 Mar 01 02:37	10° \mathfrak{H} 42'09	-0°29'23
morning rise	5872 Jan 06 05:47	0° \mathfrak{Z} 55'07		minimum elong	5878 Mar 01 02:36	10° \mathfrak{H} 42'08	0°29'22
retrograde	5872 Apr 15 11:55	8° \mathfrak{Z} 17'23		max. Earth dist.	5878 Mar 01 00:45	10° \mathfrak{H} 41'35	10.90868 AU
opposition	5872 Jun 22 14:47	4° \mathfrak{Z} 57'28	2°03'29	morning rise	5878 Mar 17 20:00	12° \mathfrak{H} 41'29	
min. Earth dist.	5872 Jun 22 16:49	4° \mathfrak{Z} 57'05	8.63665 AU	retrograde	5878 Jun 27 01:17	19° \mathfrak{H} 50'56	
direct	5872 Aug 31 20:34	1° \mathfrak{Z} 32'42		opposition	5878 Sep 05 05:36	16° \mathfrak{H} 31'51	-0°51'07
evening set	5872 Dec 14 18:17	9° \mathfrak{Z} 09'13		min. Earth dist.	5878 Sep 05 06:19	16° \mathfrak{H} 31'43	8.91100 AU
				direct	5878 Nov 14 17:13	13° \mathfrak{H} 11'58	
conjunction	5872 Dec 31 21:25	11° \mathfrak{Z} 14'05	1°31'16	evening set	5879 Feb 24 02:42	20° \mathfrak{H} 21'47	
minimum elong	5872 Dec 31 21:27	11° \mathfrak{Z} 14'06	1°31'18				
max. Earth dist.	5872 Dec 31 18:38	11° \mathfrak{Z} 13'14	10.67616 AU	conjunction	5879 Mar 12 19:46	22° \mathfrak{H} 21'01	-0°53'44
morning rise	5873 Jan 17 21:01	13° \mathfrak{Z} 17'52		minimum elong	5879 Mar 12 19:44	22° \mathfrak{H} 21'00	0°53'44
retrograde	5873 Apr 27 23:24	20° \mathfrak{Z} 34'59		max. Earth dist.	5879 Mar 12 19:11	22° \mathfrak{H} 20'50	10.90886 AU
opposition	5873 Jul 05 11:17	17° \mathfrak{Z} 15'43	1°40'19	morning rise	5879 Mar 29 12:45	24° \mathfrak{H} 20'16	
min. Earth dist.	5873 Jul 05 12:55	17° \mathfrak{Z} 15'25	8.71477 AU		5879 May 26 15:25	0° \mathfrak{Y}	
direct	5873 Sep 13 23:05	13° \mathfrak{Z} 51'59		retrograde	5879 Jul 09 06:54	1° \mathfrak{Y} 31'53	
evening set	5873 Dec 27 06:56	21° \mathfrak{Z} 21'59			5879 Aug 23 04:44	30° \mathfrak{R} \mathfrak{H}	
				opposition	5879 Sep 17 16:09	28° \mathfrak{H} 12'08	-1°19'49
conjunction	5874 Jan 13 07:53	23° \mathfrak{Z} 25'19	1°10'45	min. Earth dist.	5879 Sep 17 16:05	28° \mathfrak{H} 12'09	8.90319 AU
minimum elong	5874 Jan 13 07:55	23° \mathfrak{Z} 25'20	1°10'46	direct	5879 Nov 26 20:57	24° \mathfrak{H} 52'35	
max. Earth dist.	5874 Jan 13 05:32	23° \mathfrak{Z} 24'36	10.74984 AU		5880 Feb 18 00:14	0° \mathfrak{Y}	
morning rise	5874 Jan 30 05:30	25° \mathfrak{Z} 27'41		evening set	5880 Mar 06 20:45	2° \mathfrak{Y} 01'29	
	5874 Mar 13 23:55	0° \approx					
retrograde	5874 May 10 07:11	2° \approx 40'44		conjunction	5880 Mar 23 13:04	4° \mathfrak{Y} 00'41	-1°15'54
	5874 Jul 09 18:31	30° \mathfrak{R} \mathfrak{Z}		minimum elong	5880 Mar 23 13:02	4° \mathfrak{Y} 00'40	1°15'54
opposition	5874 Jul 18 04:30	29° \mathfrak{Z} 21'59	1°13'04	max. Earth dist.	5880 Mar 23 12:44	4° \mathfrak{Y} 00'35	10.89269 AU
min. Earth dist.	5874 Jul 18 06:03	29° \mathfrak{Z} 21'41	8.78250 AU	morning rise	5880 Apr 09 06:14	6° \mathfrak{Y} 00'10	
				retrograde	5880 Jul 20 14:38	13° \mathfrak{Y} 15'06	

opposition	5880 Sep 29 03:26	9° Υ 54'32 -1°45'18	opposition	5886 Dec 13 22:13	23° Π 01'50 -2°20'56
min. Earth dist.	5880 Sep 29 03:22	9° Υ 54'33 8.87941 AU	min. Earth dist.	5886 Dec 13 19:55	23° Π 02'17 8.48884 AU
direct	5880 Dec 08 01:06	6° Υ 35'06	direct	5887 Feb 19 14:03	19° Π 39'48
evening set	5881 Mar 18 16:08	13° Υ 44'15	evening set	5887 May 31 04:50	27° Π 10'57
conjunction	5881 Apr 04 08:16	15° Υ 43'47 -1°35'00	conjunction	5887 Jun 17 11:40	29° Π 19'41 -1°47'19
minimum elong	5881 Apr 04 08:13	15° Υ 43'46 1°35'00	minimum elong	5887 Jun 17 11:43	29° Π 19'42 1°47'20
max. Earth dist.	5881 Apr 04 07:57	15° Υ 43'41 10.86092 AU	max. Earth dist.	5887 Jun 17 15:04	29° Π 20'45 10.44772 AU
morning rise	5881 Apr 21 02:10	17° Υ 43'50		5887 Jun 22 20:39	0° \mathfrak{S}
retrograde	5881 Aug 02 01:31	25° Υ 03'01	morning rise	5887 Jul 04 22:45	1° \mathfrak{S} 29'45
opposition	5881 Oct 11 15:49	21° Υ 41'33 -2°06'33	retrograde	5887 Oct 18 22:22	9° \mathfrak{S} 23'58
min. Earth dist.	5881 Oct 11 15:34	21° Υ 41'36 8.84052 AU	opposition	5887 Dec 27 05:00	5° \mathfrak{S} 56'55 -2°02'22
direct	5881 Dec 20 05:10	18° Υ 22'04	min. Earth dist.	5887 Dec 27 02:06	5° \mathfrak{S} 57'30 8.40938 AU
evening set	5882 Mar 30 13:53	25° Υ 32'36	direct	5888 Mar 03 13:27	2° \mathfrak{S} 34'01
			evening set	5888 Jun 12 14:03	10° \mathfrak{S} 11'01
conjunction	5882 Apr 16 06:36	27° Υ 32'49 -1°50'13	conjunction	5888 Jun 30 01:29	12° \mathfrak{S} 22'05 -1°29'23
minimum elong	5882 Apr 16 06:35	27° Υ 32'49 1°50'14	minimum elong	5888 Jun 30 01:32	12° \mathfrak{S} 22'06 1°29'24
max. Earth dist.	5882 Apr 16 07:12	27° Υ 33'00 10.81466 AU	max. Earth dist.	5888 Jun 30 05:35	12° \mathfrak{S} 23'22 10.37114 AU
morning rise	5882 May 03 01:42	29° Υ 33'46	morning rise	5888 Jul 17 16:51	14° \mathfrak{S} 34'24
	5882 May 06 18:56	0° \mathfrak{S}	retrograde	5888 Oct 31 18:59	22° \mathfrak{S} 33'21
retrograde	5882 Aug 14 15:40	6° \mathfrak{S} 58'06	opposition	5889 Jan 08 15:17	19° \mathfrak{S} 05'46 -1°37'05
opposition	5882 Oct 24 06:16	3° \mathfrak{S} 35'38 -2°22'38	min. Earth dist.	5889 Jan 08 11:55	19° \mathfrak{S} 06'27 8.33609 AU
min. Earth dist.	5882 Oct 24 05:04	3° \mathfrak{S} 35'51 8.78784 AU	direct	5889 Mar 16 18:19	15° \mathfrak{S} 41'56
direct	5883 Jan 01 11:17	0° \mathfrak{S} 15'57	evening set	5889 Jun 26 07:08	23° \mathfrak{S} 24'55
evening set	5883 Apr 11 15:08	7° \mathfrak{S} 28'55			
conjunction	5883 Apr 28 09:12	9° \mathfrak{S} 30'11 -2°00'49	conjunction	5889 Jul 13 22:56	25° \mathfrak{S} 38'10 -1°06'29
minimum elong	5883 Apr 28 09:10	9° \mathfrak{S} 30'11 2°00'51	minimum elong	5889 Jul 13 22:58	25° \mathfrak{S} 38'11 1°06'30
max. Earth dist.	5883 Apr 28 11:16	9° \mathfrak{S} 30'49 10.75558 AU	max. Earth dist.	5889 Jul 14 03:03	25° \mathfrak{S} 39'28 10.30275 AU
morning rise	5883 May 15 06:04	11° \mathfrak{S} 32'22	morning rise	5889 Jul 31 18:15	27° \mathfrak{S} 52'33
	5883 Jun 15 09:48	15° \mathfrak{S}		5889 Aug 18 10:11	0° \mathfrak{Q}
retrograde	5883 Aug 27 12:15	19° \mathfrak{S} 02'32	retrograde	5889 Nov 14 19:05	5° \mathfrak{Q} 55'07
opposition	5883 Nov 05 23:21	15° \mathfrak{S} 39'00 -2°32'42	opposition	5890 Jan 22 04:40	2° \mathfrak{Q} 27'15 -1°06'11
min. Earth dist.	5883 Nov 05 21:02	15° \mathfrak{S} 39'27 8.72336 AU	min. Earth dist.	5890 Jan 22 01:24	2° \mathfrak{Q} 27'54 8.27298 AU
	5883 Nov 14 13:18	15° \mathfrak{R} \mathfrak{S}		5890 Feb 25 06:11	30° \mathfrak{R} \mathfrak{S}
direct	5884 Jan 13 19:09	12° \mathfrak{S} 18'59	direct	5890 Mar 30 03:43	29° \mathfrak{S} 02'28
	5884 Mar 10 21:36	15° \mathfrak{S}		5890 May 01 17:05	0° \mathfrak{Q}
evening set	5884 Apr 22 21:15	19° \mathfrak{S} 35'20	evening set	5890 Jul 10 07:35	6° \mathfrak{Q} 51'13
conjunction	5884 May 09 17:21	21° \mathfrak{S} 38'01 -2°06'12	conjunction	5890 Jul 28 03:13	9° \mathfrak{Q} 06'23 -0°39'41
minimum elong	5884 May 09 17:20	21° \mathfrak{S} 38'01 2°06'13	minimum elong	5890 Jul 28 03:14	9° \mathfrak{Q} 06'23 0°39'42
max. Earth dist.	5884 May 09 19:47	21° \mathfrak{S} 38'46 10.68610 AU	max. Earth dist.	5890 Jul 28 06:28	9° \mathfrak{Q} 07'25 10.24634 AU
morning rise	5884 May 26 16:51	23° \mathfrak{S} 41'47	morning rise	5890 Aug 15 01:51	11° \mathfrak{Q} 22'30
	5884 Jul 30 13:15	0° \mathfrak{II}		5890 Sep 15 01:59	15° \mathfrak{Q}
retrograde	5884 Sep 08 14:10	1° \mathfrak{II} 18'06	retrograde	5890 Nov 28 21:44	19° \mathfrak{Q} 27'20
	5884 Oct 19 05:00	30° \mathfrak{R} \mathfrak{S}	opposition	5891 Feb 04 20:48	15° \mathfrak{Q} 59'22 -0°31'11
opposition	5884 Nov 17 19:26	27° \mathfrak{S} 53'34 -2°36'04	min. Earth dist.	5891 Feb 04 18:21	15° \mathfrak{Q} 59'51 8.22360 AU
min. Earth dist.	5884 Nov 17 16:54	27° \mathfrak{S} 54'03 8.64980 AU		5891 Feb 17 05:53	15° \mathfrak{R} \mathfrak{Q}
direct	5885 Jan 25 03:50	24° \mathfrak{S} 33'00	direct	5891 Apr 12 17:59	12° \mathfrak{Q} 33'37
	5885 Apr 19 04:38	0° \mathfrak{II}		5891 Jun 04 17:47	15° \mathfrak{Q}
evening set	5885 May 05 09:03	1° \mathfrak{II} 53'39	evening set	5891 Jul 24 14:24	20° \mathfrak{Q} 27'39
conjunction	5885 May 22 07:58	3° \mathfrak{II} 58'05 -2°05'52	conjunction	5891 Aug 11 13:03	22° \mathfrak{Q} 44'16 -0°10'26
minimum elong	5885 May 22 07:59	3° \mathfrak{II} 58'05 2°05'54	minimum elong	5891 Aug 11 13:03	22° \mathfrak{Q} 44'17 0°10'27
max. Earth dist.	5885 May 22 10:09	3° \mathfrak{II} 58'46 10.60925 AU	behind sun begin	5891 Aug 11 07:23	22° \mathfrak{Q} 42'29
morning rise	5885 Jun 08 10:55	6° \mathfrak{II} 03'45	behind sun end	5891 Aug 11 18:44	22° \mathfrak{Q} 46'04
retrograde	5885 Sep 21 19:11	13° \mathfrak{II} 46'19	max. Earth dist.	5891 Aug 11 15:13	22° \mathfrak{Q} 44'57 10.20488 AU
opposition	5885 Nov 30 19:01	10° \mathfrak{II} 20'50 -2°32'12	morning rise	5891 Aug 29 13:57	25° \mathfrak{Q} 01'36
min. Earth dist.	5885 Nov 30 16:45	10° \mathfrak{II} 21'17 8.57036 AU		5891 Oct 12 19:54	0° \mathfrak{P}
direct	5886 Feb 06 18:42	6° \mathfrak{II} 59'35	retrograde	5891 Dec 13 00:59	3° \mathfrak{P} 07'14
evening set	5886 May 18 03:21	14° \mathfrak{II} 25'14	asc. node	5891 Dec 20 17:23	3° \mathfrak{P} 04'00
				5892 Feb 14 09:19	30° \mathfrak{R} \mathfrak{Q}
conjunction	5886 Jun 04 05:52	16° \mathfrak{II} 31'43 -1°59'35	opposition	5892 Feb 18 14:47	29° \mathfrak{Q} 39'22 0°05'55
minimum elong	5886 Jun 04 05:54	16° \mathfrak{II} 31'44 1°59'36	min. Earth dist.	5892 Feb 18 13:18	29° \mathfrak{Q} 39'40 8.19029 AU
max. Earth dist.	5886 Jun 04 08:15	16° \mathfrak{II} 32'28 10.52846 AU	direct	5892 Apr 25 13:35	26° \mathfrak{Q} 12'44
morning rise	5886 Jun 21 12:44	18° \mathfrak{II} 39'31		5892 Jul 01 21:03	0° \mathfrak{P}
retrograde	5886 Oct 05 05:55	26° \mathfrak{II} 28'10	evening set	5892 Aug 07 02:25	4° \mathfrak{P} 11'18

conjunction	5892 Aug 25 02:56	6° \mathbb{M} 28'48	0°19'42	max. Earth dist.	5898 Nov 18 07:17	28° \mathbb{M} 06'55	10.38973 AU
minimum elong	5892 Aug 25 02:55	6° \mathbb{M} 28'48	0°19'41		5898 Dec 03 09:05	0° \mathbb{A}	
max. Earth dist.	5892 Aug 25 03:59	6° \mathbb{M} 29'08	10.17996 AU	morning rise	5898 Dec 05 19:55	0° \mathbb{A} 18'08	
morning rise	5892 Sep 12 04:40	8° \mathbb{M} 46'41		retrograde	5899 Mar 17 00:09	7° \mathbb{A} 55'35	
retrograde	5892 Dec 26 02:20	16° \mathbb{M} 51'42		opposition	5899 May 23 07:14	4° \mathbb{A} 33'10	2°35'02
opposition	5893 Mar 03 09:42	13° \mathbb{M} 24'10	0°42'55	min. Earth dist.	5899 May 23 09:16	4° \mathbb{A} 32'46	8.43029 AU
min. Earth dist.	5893 Mar 03 09:02	13° \mathbb{M} 24'18	8.17405 AU	direct	5899 Jul 31 16:11	1° \mathbb{A} 05'57	
direct	5893 May 09 13:34	9° \mathbb{M} 56'47		evening set	5899 Nov 14 13:08	8° \mathbb{A} 58'10	
evening set	5893 Aug 21 17:41	17° \mathbb{M} 58'56					
conjunction	5893 Sep 08 18:47	20° \mathbb{M} 16'43	0°48'44	conjunction	5899 Dec 01 23:12	11° \mathbb{A} 07'35	2°02'49
minimum elong	5893 Sep 08 18:44	20° \mathbb{M} 16'42	0°48'43	minimum elong	5899 Dec 01 23:13	11° \mathbb{A} 07'35	2°02'51
max. Earth dist.	5893 Sep 08 18:53	20° \mathbb{M} 16'45	10.17220 AU	max. Earth dist.	5899 Dec 01 20:14	11° \mathbb{A} 06'39	10.46953 AU
morning rise	5893 Sep 26 19:53	22° \mathbb{M} 34'31		morning rise	5899 Dec 19 05:17	13° \mathbb{A} 15'46	
	5893 Dec 13 21:24	0° \mathbb{A}		retrograde	5900 Mar 29 22:01	20° \mathbb{A} 46'39	
retrograde	5894 Jan 09 03:07	0° \mathbb{A} 37'40		opposition	5900 Jun 05 12:38	17° \mathbb{A} 25'08	2°26'51
	5894 Feb 04 13:02	30° \mathbb{R} \mathbb{M}		min. Earth dist.	5900 Jun 05 14:14	17° \mathbb{A} 24'49	8.51200 AU
opposition	5894 Mar 17 05:04	27° \mathbb{M} 10'41	1°17'30	direct	5900 Aug 14 07:32	13° \mathbb{A} 58'39	
min. Earth dist.	5894 Mar 17 04:45	27° \mathbb{M} 10'45	8.17539 AU	evening set	5900 Nov 27 20:27	21° \mathbb{A} 44'35	
direct	5894 May 23 14:24	23° \mathbb{M} 42'48		conjunction	5900 Dec 15 03:35	23° \mathbb{A} 52'03	1°53'25
	5894 Aug 21 19:24	0° \mathbb{A}		minimum elong	5900 Dec 15 03:37	23° \mathbb{A} 52'04	1°53'27
evening set	5894 Sep 05 10:06	1° \mathbb{A} 47'18		max. Earth dist.	5900 Dec 15 01:24	23° \mathbb{A} 51'22	10.55250 AU
				morning rise	5901 Jan 01 06:36	25° \mathbb{A} 58'19	
conjunction	5894 Sep 23 10:31	4° \mathbb{A} 04'45	1°14'58		5901 Feb 06 12:53	0° \mathbb{B}	
minimum elong	5894 Sep 23 10:28	4° \mathbb{A} 04'44	1°14'58	retrograde	5901 Apr 11 15:13	3° \mathbb{B} 23'00	
max. Earth dist.	5894 Sep 23 10:15	4° \mathbb{A} 04'40	10.18231 AU	opposition	5901 Jun 18 14:09	0° \mathbb{B} 02'18	2°11'41
morning rise	5894 Oct 11 09:43	6° \mathbb{A} 21'51		min. Earth dist.	5901 Jun 18 15:34	0° \mathbb{B} 02'01	8.59474 AU
retrograde	5895 Jan 23 02:31	14° \mathbb{A} 21'53			5901 Aug 19 01:59	30° \mathbb{R} \mathbb{A}	
opposition	5895 Mar 31 00:03	10° \mathbb{A} 55'39	1°47'33	direct	5901 Aug 27 17:37	26° \mathbb{A} 36'41	
min. Earth dist.	5895 Mar 30 24:00	10° \mathbb{A} 55'39	8.19501 AU		5901 Nov 01 20:02	0° \mathbb{B}	
direct	5895 Jun 06 16:05	7° \mathbb{A} 27'27		evening set	5901 Dec 10 19:33	4° \mathbb{B} 15'56	
evening set	5895 Sep 20 01:51	15° \mathbb{A} 32'48					
conjunction	5895 Oct 08 00:24	17° \mathbb{A} 49'19	1°36'50	conjunction	5901 Dec 27 24:00	6° \mathbb{B} 21'35	1°38'45
minimum elong	5895 Oct 08 00:22	17° \mathbb{A} 49'18	1°36'50	minimum elong	5901 Dec 28 00:02	6° \mathbb{B} 21'36	1°38'48
max. Earth dist.	5895 Oct 07 23:37	17° \mathbb{A} 49'04	10.21075 AU	max. Earth dist.	5901 Dec 27 22:13	6° \mathbb{B} 21'03	10.63458 AU
morning rise	5895 Oct 25 20:41	20° \mathbb{A} 05'11		morning rise	5902 Jan 14 00:26	8° \mathbb{B} 26'06	
retrograde	5896 Feb 05 22:28	28° \mathbb{A} 00'49		retrograde	5902 Apr 24 04:12	15° \mathbb{B} 45'12	
opposition	5896 Apr 12 17:43	24° \mathbb{A} 35'27	2°11'17	opposition	5902 Jul 01 11:44	12° \mathbb{B} 25'13	1°50'37
min. Earth dist.	5896 Apr 12 18:23	24° \mathbb{A} 35'19	8.23266 AU	min. Earth dist.	5902 Jul 01 13:37	12° \mathbb{B} 24'51	8.67465 AU
direct	5896 Jun 19 18:17	21° \mathbb{A} 07'10		direct	5902 Sep 09 20:56	9° \mathbb{B} 00'33	
evening set	5896 Oct 03 14:21	29° \mathbb{A} 11'39		evening set	5902 Dec 23 11:03	16° \mathbb{B} 33'11	
	5896 Oct 10 00:36	0° \mathbb{M}					
conjunction	5896 Oct 21 10:09	1° \mathbb{M} 26'44	1°53'06	conjunction	5903 Jan 09 12:58	18° \mathbb{B} 37'11	1°19'46
minimum elong	5896 Oct 21 10:06	1° \mathbb{M} 26'44	1°53'06	minimum elong	5903 Jan 09 13:00	18° \mathbb{B} 37'12	1°19'48
max. Earth dist.	5896 Oct 21 08:32	1° \mathbb{M} 26'14	10.25657 AU	max. Earth dist.	5903 Jan 09 10:40	18° \mathbb{B} 36'29	10.71197 AU
morning rise	5896 Nov 08 02:54	3° \mathbb{M} 40'57		morning rise	5903 Jan 26 11:25	20° \mathbb{B} 40'10	
retrograde	5897 Feb 18 12:26	11° \mathbb{M} 31'07		retrograde	5903 May 06 11:48	27° \mathbb{B} 54'37	
opposition	5897 Apr 26 09:25	8° \mathbb{M} 06'44	2°27'27	opposition	5903 Jul 14 05:57	24° \mathbb{B} 35'13	1°24'57
min. Earth dist.	5897 Apr 26 10:54	8° \mathbb{M} 06'26	8.28658 AU	min. Earth dist.	5903 Jul 14 08:01	24° \mathbb{B} 34'49	8.74812 AU
direct	5897 Jul 03 20:49	4° \mathbb{M} 38'35		direct	5903 Sep 22 19:55	21° \mathbb{B} 11'33	
evening set	5897 Oct 17 21:14	12° \mathbb{M} 40'26		evening set	5904 Jan 04 19:42	28° \mathbb{B} 37'56	
					5904 Jan 16 05:36	0° \mathbb{A}	
conjunction	5897 Nov 04 13:47	14° \mathbb{M} 53'45	2°02'58	conjunction	5904 Jan 21 19:21	0° \mathbb{A} 40'28	0°57'29
minimum elong	5897 Nov 04 13:46	14° \mathbb{M} 53'45	2°02'59	minimum elong	5904 Jan 21 19:23	0° \mathbb{A} 40'29	0°57'30
max. Earth dist.	5897 Nov 04 11:20	14° \mathbb{M} 52'59	10.31737 AU	max. Earth dist.	5904 Jan 21 16:53	0° \mathbb{A} 39'43	10.78125 AU
	5897 Nov 05 09:32	15° \mathbb{M}		morning rise	5904 Feb 07 16:10	2° \mathbb{A} 42'09	
morning rise	5897 Nov 22 02:51	17° \mathbb{M} 06'02		retrograde	5904 May 17 17:06	9° \mathbb{A} 53'06	
retrograde	5898 Mar 03 20:47	24° \mathbb{M} 50'03		opposition	5904 Jul 25 21:06	6° \mathbb{A} 34'06	0°55'57
opposition	5898 May 09 22:10	21° \mathbb{M} 26'40	2°35'23	min. Earth dist.	5904 Jul 25 22:28	6° \mathbb{A} 33'51	8.81198 AU
min. Earth dist.	5898 May 10 00:16	21° \mathbb{M} 26'15	8.35375 AU	direct	5904 Oct 04 15:20	3° \mathbb{A} 11'28	
direct	5898 Jul 17 20:29	17° \mathbb{M} 58'53		evening set	5905 Jan 15 22:40	10° \mathbb{A} 32'15	
evening set	5898 Oct 31 21:12	25° \mathbb{M} 56'31					
conjunction	5898 Nov 18 10:26	28° \mathbb{M} 07'55	2°06'10	conjunction	5905 Feb 01 20:28	12° \mathbb{A} 33'34	0°32'59
minimum elong	5898 Nov 18 10:26	28° \mathbb{M} 07'55	2°06'11	minimum elong	5905 Feb 01 20:29	12° \mathbb{A} 33'34	0°33'00
				max. Earth dist.	5905 Feb 01 18:52	12° \mathbb{A} 33'05	10.83946 AU
				morning rise	5905 Feb 18 15:52	14° \mathbb{A} 34'10	

	5905 Feb 22 08:05	15°♊	morning rise	5911 Apr 29 04:08	24°♎36'34
retrograde	5905 May 29 21:37	21°♊42'51		5911 Jun 21 18:53	0°♎
opposition	5905 Aug 07 09:44	18°♊24'04 0°24'57	retrograde	5911 Aug 10 11:48	1°♎57'11
min. Earth dist.	5905 Aug 07 10:07	18°♊24'00 8.86359 AU		5911 Sep 30 20:00	30°♎♎
direct	5905 Oct 17 04:09	15°♊02'27	opposition	5911 Oct 20 02:01	28°♎35'55 -2°15'59
evening set	5906 Jan 27 21:14	22°♊18'28	min. Earth dist.	5911 Oct 20 00:19	28°♎36'14 8.84428 AU
			direct	5911 Dec 28 10:20	25°♎17'07
conjunction	5906 Feb 13 17:23	24°♊18'46 0°07'22		5912 Mar 15 23:11	0°♎
minimum elong	5906 Feb 13 17:24	24°♊18'47 0°07'22	evening set	5912 Apr 06 16:33	2°♎27'33
behind sun begin	5906 Feb 13 10:58	24°♊16'52			
behind sun end	5906 Feb 13 23:49	24°♊20'41	conjunction	5912 Apr 23 09:36	4°♎27'54 -1°56'35
max. Earth dist.	5906 Feb 13 16:56	24°♊18'39 10.88418 AU	minimum elong	5912 Apr 23 09:35	4°♎27'53 1°56'37
morning rise	5906 Mar 02 11:38	26°♊18'35	max. Earth dist.	5912 Apr 23 10:40	4°♎28'13 10.81581 AU
	5906 Apr 05 14:56	0°♋	morning rise	5912 May 10 05:29	6°♎29'04
desc. node	5906 May 31 01:48	3°♋20'11	retrograde	5912 Aug 22 04:29	13°♎55'06
retrograde	5906 Jun 11 00:50	3°♋26'15	opposition	5912 Oct 31 17:06	10°♎32'52 -2°28'44
opposition	5906 Aug 19 20:41	0°♋07'32 -0°06'48	min. Earth dist.	5912 Oct 31 15:57	10°♎33'05 8.78638 AU
min. Earth dist.	5906 Aug 19 20:47	0°♋07'31 8.90082 AU	direct	5913 Jan 08 16:36	7°♎13'46
	5906 Aug 21 13:01	30°♋♊	evening set	5913 Apr 18 19:36	14°♎27'08
direct	5906 Oct 29 13:16	26°♋46'48		5913 Apr 23 09:32	15°♎
	5907 Jan 02 08:05	0°♋			
evening set	5907 Feb 08 16:51	3°♋59'06	conjunction	5913 May 05 14:24	16°♎28'43 -2°04'18
			minimum elong	5913 May 05 14:23	16°♎28'43 2°04'20
conjunction	5907 Feb 25 11:23	5°♋58'39 -0°18'31	max. Earth dist.	5913 May 05 15:32	16°♎29'04 10.75112 AU
minimum elong	5907 Feb 25 11:22	5°♋58'39 0°18'30	morning rise	5913 May 22 12:34	18°♎31'20
max. Earth dist.	5907 Feb 25 10:54	5°♋58'31 10.91358 AU	retrograde	5913 Sep 04 01:50	26°♎03'20
morning rise	5907 Mar 14 04:51	7°♋57'55	opposition	5913 Nov 13 10:44	22°♎40'04 -2°35'06
retrograde	5907 Jun 23 04:30	15°♋05'52	min. Earth dist.	5913 Nov 13 09:33	22°♎40'18 8.71566 AU
opposition	5907 Sep 01 06:40	11°♋47'02 -0°38'03	direct	5914 Jan 21 00:35	19°♎20'30
min. Earth dist.	5907 Sep 01 06:57	11°♋46'59 8.92232 AU	evening set	5914 May 01 03:49	26°♎37'48
direct	5907 Nov 10 19:31	8°♋27'03			
evening set	5908 Feb 20 10:41	15°♋36'43	conjunction	5914 May 18 01:15	28°♎41'02 -2°06'34
			minimum elong	5914 May 18 01:15	28°♎41'02 2°06'35
conjunction	5908 Mar 08 03:53	17°♋35'47 -0°43'26	max. Earth dist.	5914 May 18 03:01	28°♎41'34 10.67504 AU
minimum elong	5908 Mar 08 03:52	17°♋35'47 0°43'26		5914 May 28 19:47	0°♐
max. Earth dist.	5908 Mar 08 03:16	17°♋35'36 10.92676 AU	morning rise	5914 Jun 04 02:18	0°♐45'24
morning rise	5908 Mar 24 21:01	19°♋34'49	retrograde	5914 Sep 17 04:06	8°♐23'47
retrograde	5908 Jul 04 07:12	26°♋44'18	opposition	5914 Nov 26 07:50	4°♐59'27 -2°34'33
opposition	5908 Sep 12 16:22	23°♋25'06 -1°07'40	min. Earth dist.	5914 Nov 26 06:04	4°♐59'48 8.63523 AU
min. Earth dist.	5908 Sep 12 16:22	23°♋25'06 8.92741 AU	direct	5915 Feb 02 13:05	1°♐39'12
direct	5908 Nov 22 00:02	20°♋05'42	evening set	5915 May 13 18:07	9°♐01'16
evening set	5909 Mar 03 03:48	27°♋13'53			
			conjunction	5915 May 30 18:52	11°♐06'28 -2°03'00
conjunction	5909 Mar 19 20:14	29°♋12'46 -1°06'34	minimum elong	5915 May 30 18:54	11°♐06'29 2°03'01
minimum elong	5909 Mar 19 20:12	29°♋12'45 1°06'34	max. Earth dist.	5915 May 30 21:04	11°♐07'09 10.59151 AU
max. Earth dist.	5909 Mar 19 20:29	29°♋12'50 10.92325 AU	morning rise	5915 Jun 16 23:33	13°♐12'54
	5909 Mar 26 10:17	0°♑	retrograde	5915 Sep 30 13:24	20°♐57'39
morning rise	5909 Apr 05 13:16	1°♑11'50	opposition	5915 Dec 09 08:35	17°♐32'17 -2°26'41
retrograde	5909 Jul 16 13:38	8°♑24'04	min. Earth dist.	5915 Dec 09 06:28	17°♐32'41 8.54946 AU
opposition	5909 Sep 25 02:18	5°♑04'18 -1°34'32	direct	5916 Feb 15 04:17	14°♐11'08
min. Earth dist.	5909 Sep 25 01:13	5°♑04'31 8.91580 AU	evening set	5916 May 25 15:33	21°♐38'36
direct	5909 Dec 04 04:40	1°♑45'20			
evening set	5910 Mar 14 21:45	8°♑53'08	conjunction	5916 Jun 11 20:13	23°♐46'00 -1°53'28
			minimum elong	5916 Jun 11 20:15	23°♐46'01 1°53'30
conjunction	5910 Mar 31 13:54	10°♑52'11 -1°27'00	max. Earth dist.	5916 Jun 11 21:53	23°♐46'31 10.50505 AU
minimum elong	5910 Mar 31 13:52	10°♑52'10 1°27'01	morning rise	5916 Jun 29 05:08	25°♐54'44
max. Earth dist.	5910 Mar 31 15:23	10°♑52'37 10.90304 AU		5916 Aug 04 16:11	0°♑
morning rise	5910 Apr 17 07:09	12°♑51'36	retrograde	5916 Oct 13 03:01	3°♑45'25
retrograde	5910 Jul 28 23:56	20°♑07'34	opposition	5916 Dec 21 12:53	0°♑19'05 -2°11'30
opposition	5910 Oct 07 13:12	16°♑47'07 -1°57'38	min. Earth dist.	5916 Dec 21 11:14	0°♑19'24 8.46293 AU
min. Earth dist.	5910 Oct 07 11:25	16°♑47'27 8.88779 AU		5916 Dec 25 13:58	30°♑♐
direct	5910 Dec 16 06:57	13°♑28'22	direct	5917 Feb 26 23:56	26°♐56'53
evening set	5911 Mar 26 17:42	20°♑36'56		5917 Apr 28 05:00	0°♑
			evening set	5917 Jun 07 20:27	4°♑30'15
conjunction	5911 Apr 12 09:57	22°♑36'27 -1°43'56			
minimum elong	5911 Apr 12 09:55	22°♑36'26 1°43'57	conjunction	5917 Jun 25 05:29	6°♑39'59 -1°38'08
max. Earth dist.	5911 Apr 12 11:34	22°♑36'56 10.86687 AU	minimum elong	5917 Jun 25 05:32	6°♑40'00 1°38'10

max. Earth dist.	5917 Jun 25 06:43	6°  40'23	10.42016 AU	minimum elong	5923 Sep 18 00:36	27°  57'19	1°03'13
morning rise	5917 Jul 12 18:51	8°  51'04		max. Earth dist.	5923 Sep 18 00:07	27°  57'10	10.16014 AU
retrograde	5917 Oct 26 19:46	16°  47'02			5923 Oct 04 01:18	0° 	
opposition	5918 Jan 03 20:54	13°  19'52	-1°49'19	morning rise	5923 Oct 06 01:01	0° 	15'00
min. Earth dist.	5918 Jan 03 19:43	13°  20'07	8.38013 AU	retrograde	5924 Jan 18 01:08	8° 	17'04
direct	5918 Mar 12 02:31	9°  56'31		opposition	5924 Mar 25 00:19	4° 	49'50 1°34'18
evening set	5918 Jun 21 08:53	17°  36'00		min. Earth dist.	5924 Mar 25 00:43	4° 	49'45 8.16880 AU
				direct	5924 May 31 13:02	1° 	21'06
conjunction	5918 Jul 08 22:28	19°  48'05	-1°17'30	evening set	5924 Sep 13 16:12	9° 	26'38
minimum elong	5918 Jul 08 22:31	19°  48'06	1°17'31				
max. Earth dist.	5918 Jul 08 23:55	19°  48'32	10.34117 AU	conjunction	5924 Oct 01 15:39	11° 	43'46 1°27'18
morning rise	5918 Jul 26 16:04	22°  01'23		minimum elong	5924 Oct 01 15:36	11° 	43'45 1°27'18
	5918 Nov 03 22:02	0° 		max. Earth dist.	5924 Oct 01 14:23	11° 	43'22 10.18117 AU
retrograde	5918 Nov 09 16:19	0°  01'46		morning rise	5924 Oct 19 13:36	14° 	00'26
	5918 Nov 15 11:32	30°  R 		retrograde	5925 Jan 30 21:26	21° 	58'36
opposition	5919 Jan 17 08:17	26°  33'57	-1°20'58	opposition	5925 Apr 07 18:45	18° 	32'14 2°01'10
min. Earth dist.	5919 Jan 17 07:05	26°  34'11	8.30541 AU	min. Earth dist.	5925 Apr 07 19:13	18° 	32'08 8.19990 AU
direct	5919 Mar 25 10:17	23°  09'26		direct	5925 Jun 14 16:33	15° 	03'24
	5919 Jun 27 18:00	0° 		evening set	5925 Sep 28 06:21	23° 	08'48
evening set	5919 Jul 05 05:03	0°  05'49					
				conjunction	5925 Oct 16 03:30	25° 	24'43 1°46'16
conjunction	5919 Jul 22 22:58	3°  09'13	-0°52'25	minimum elong	5925 Oct 16 03:27	25° 	24'42 1°46'17
minimum elong	5919 Jul 22 23:00	3°  09'14	0°52'27	max. Earth dist.	5925 Oct 16 02:15	25° 	24'19 10.22128 AU
max. Earth dist.	5919 Jul 23 00:55	3°  09'50	10.27226 AU	morning rise	5925 Nov 02 22:10	27° 	39'52
morning rise	5919 Aug 09 20:12	5°  02'40			5925 Nov 22 06:26	0° 	
retrograde	5919 Nov 23 17:11	13°  02'8'05		retrograde	5926 Feb 13 13:33	5° 	33'02
opposition	5920 Jan 30 22:28	9°  05'50	-0°47'44	opposition	5926 Apr 21 11:27	2° 	07'43 2°20'56
min. Earth dist.	5920 Jan 30 20:56	10°  00'09	8.24277 AU	min. Earth dist.	5926 Apr 21 11:42	2° 	07'40 8.24901 AU
direct	5920 Apr 06 21:50	6°  03'4'10			5926 May 19 20:25	30°  R 	
evening set	5920 Jul 18 08:24	14°  02'5'33		direct	5926 Jun 28 19:13	28° 	39'05
	5920 Jul 22 22:14	15° 			5926 Aug 07 08:17	0° 	
				evening set	5926 Oct 12 16:02	6° 	42'37
conjunction	5920 Aug 05 05:55	16°  02'41'34	-0°24'10				
minimum elong	5920 Aug 05 05:56	16°  02'41'34	0°24'11	conjunction	5926 Oct 30 10:19	8° 	56'55 1°59'09
max. Earth dist.	5920 Aug 05 08:00	16°  02'42'14	10.21708 AU	minimum elong	5926 Oct 30 10:17	8° 	56'54 1°59'10
morning rise	5920 Aug 23 05:50	18°  02'58'24		max. Earth dist.	5926 Oct 30 09:19	8° 	56'36 10.27816 AU
retrograde	5920 Dec 06 20:03	27°  03'48		morning rise	5926 Nov 17 01:16	11° 	10'13
opposition	5921 Feb 12 15:10	23°  03'5'23	-0°11'25		5926 Dec 20 03:53	15° 	
min. Earth dist.	5921 Feb 12 13:31	23°  03'5'43	8.19557 AU	retrograde	5927 Feb 27 02:16	18° 	57'33
direct	5921 Apr 20 14:10	20°  08'41		opposition	5927 May 05 01:41	15° 	33'23 2°32'41
asc. node	5921 Jun 08 09:58	22°  01'4'17		min. Earth dist.	5927 May 05 01:59	15° 	33'19 8.31317 AU
evening set	5921 Aug 01 17:43	28°  05'1'17			5927 May 12 00:44	15°  R 	
	5921 Aug 16 19:11	0° 		direct	5927 Jul 12 18:38	12° 	05'12
					5927 Sep 10 13:43	15° 	
conjunction	5921 Aug 19 17:38	0°  02'22'33	0°05'48	evening set	5927 Oct 26 19:45	20° 	05'16
minimum elong	5921 Aug 19 17:38	0°  02'22'33	0°05'47				
behind sun begin	5921 Aug 19 10:38	0°  02'20'20		conjunction	5927 Nov 13 10:46	22° 	17'42 2°05'26
behind sun end	5921 Aug 20 00:38	0°  02'24'46		minimum elong	5927 Nov 13 10:46	22° 	17'42 2°05'27
max. Earth dist.	5921 Aug 19 19:10	0°  02'23'01	10.17865 AU	max. Earth dist.	5927 Nov 13 09:51	22° 	17'25 10.34846 AU
morning rise	5921 Sep 06 19:02	2°  02'40'20		morning rise	5927 Nov 30 21:52	24° 	28'59
retrograde	5921 Dec 20 23:02	10°  02'46'07			5928 Jan 21 11:34	0° 	
opposition	5922 Feb 26 09:36	7°  02'17'50	0°25'54	retrograde	5928 Mar 11 09:44	2° 	57'09'54
min. Earth dist.	5922 Feb 26 08:28	7°  02'18'03	8.16653 AU		5928 May 01 20:41	30°  R 	
direct	5922 May 04 10:58	3°  02'50'14		opposition	5928 May 17 12:51	28° 	46'56 2°36'06
evening set	5922 Aug 16 07:32	11°  02'51'07		min. Earth dist.	5928 May 17 13:42	28° 	46'46 8.38878 AU
				direct	5928 Jul 25 15:30	25° 	19'27
conjunction	5922 Sep 03 08:34	14°  02'09'00	0°35'29		5928 Oct 11 15:43	0° 	
minimum elong	5922 Sep 03 08:33	14°  02'09'00	0°35'28	evening set	5928 Nov 08 16:00	3° 	57'14'41
max. Earth dist.	5922 Sep 03 09:09	14°  02'09'11	10.15928 AU				
morning rise	5922 Sep 21 10:07	16°  02'07'04		conjunction	5928 Nov 26 03:39	5° 	57'25'07 2°05'02
retrograde	5923 Jan 04 01:05	24°  02'31'43		minimum elong	5928 Nov 26 03:40	5° 	57'25'07 2°05'04
opposition	5923 Mar 12 04:55	21°  02'03'50	1°01'54	max. Earth dist.	5928 Nov 26 02:19	5° 	57'24'42 10.42835 AU
min. Earth dist.	5923 Mar 12 04:36	21°  02'03'54	8.15745 AU	morning rise	5928 Dec 13 11:12	7° 	57'34'20
direct	5923 May 18 10:38	17°  02'35'32		retrograde	5929 Mar 24 10:34	15° 	57'08'39
evening set	5923 Aug 30 23:46	25°  02'39'29		opposition	5929 May 30 20:37	11° 	57'46'51 2°31'23
				min. Earth dist.	5929 May 30 22:09	11° 	57'46'33 8.47180 AU
conjunction	5923 Sep 18 00:38	27°  02'57'20	1°03'14	direct	5929 Aug 08 09:17	8° 	57'20'13

evening set	5929 Nov 22 03:53	16° \mathbb{A} 09'32		desc. node	5935 Nov 10 10:06	22° \approx 02'58	
				evening set	5936 Feb 03 20:01	29° \approx 03'04	
conjunction	5929 Dec 09 12:20	18° \mathbb{A} 17'58	1°58'18		5936 Feb 11 20:38	0° \mathbb{H}	
minimum elong	5929 Dec 09 12:21	18° \mathbb{A} 17'58	1°58'20				
max. Earth dist.	5929 Dec 09 10:14	18° \mathbb{A} 17'19	10.51361 AU	conjunction	5936 Feb 20 15:14	1° \mathbb{H} 03'01	-0°07'05
morning rise	5929 Dec 26 16:49	20° \mathbb{A} 25'12		minimum elong	5936 Feb 20 15:14	1° \mathbb{H} 03'01	0°07'04
retrograde	5930 Apr 06 05:52	27° \mathbb{A} 53'05		behind sun begin	5936 Feb 20 08:45	1° \mathbb{H} 01'06	
opposition	5930 Jun 13 00:28	24° \mathbb{A} 32'20	2°19'15	behind sun end	5936 Feb 20 21:43	1° \mathbb{H} 04'56	
min. Earth dist.	5930 Jun 13 02:06	24° \mathbb{A} 32'01	8.55784 AU	max. Earth dist.	5936 Feb 20 12:58	1° \mathbb{H} 02'22	10.89924 AU
direct	5930 Aug 21 22:57	21° \mathbb{A} 06'40		morning rise	5936 Mar 08 09:08	3° \mathbb{H} 02'36	
evening set	5930 Dec 05 07:32	28° \mathbb{A} 49'27		retrograde	5936 Jun 17 04:20	10° \mathbb{H} 10'53	
	5930 Dec 14 23:17	0° \mathbb{B}		opposition	5936 Aug 26 03:08	6° \mathbb{H} 52'17	-0°24'16
				min. Earth dist.	5936 Aug 26 04:06	6° \mathbb{H} 52'06	8.90926 AU
conjunction	5930 Dec 22 13:08	0° \mathbb{B} 55'59	1°45'55	direct	5936 Nov 04 18:37	3° \mathbb{H} 32'05	
minimum elong	5930 Dec 22 13:10	0° \mathbb{B} 55'59	1°45'57	evening set	5937 Feb 14 15:03	10° \mathbb{H} 43'27	
max. Earth dist.	5930 Dec 22 10:49	0° \mathbb{B} 55'16	10.59975 AU				
morning rise	5931 Jan 08 14:55	3° \mathbb{B} 01'20		conjunction	5937 Mar 03 09:02	12° \mathbb{H} 42'52	-0°32'31
retrograde	5931 Apr 18 21:05	10° \mathbb{B} 23'16		minimum elong	5937 Mar 03 09:01	12° \mathbb{H} 42'51	0°32'30
opposition	5931 Jun 26 00:17	7° \mathbb{B} 03'24	2°00'42	max. Earth dist.	5937 Mar 03 07:57	12° \mathbb{H} 42'32	10.91507 AU
min. Earth dist.	5931 Jun 26 01:31	7° \mathbb{B} 03'10	8.64241 AU	morning rise	5937 Mar 20 02:15	14° \mathbb{H} 42'06	
direct	5931 Sep 04 06:13	3° \mathbb{B} 38'46		retrograde	5937 Jun 29 08:27	21° \mathbb{H} 51'24	
evening set	5931 Dec 18 03:08	11° \mathbb{B} 14'47		opposition	5937 Sep 07 13:19	18° \mathbb{H} 32'21	-0°54'49
				min. Earth dist.	5937 Sep 07 13:44	18° \mathbb{H} 32'16	8.91690 AU
conjunction	5932 Jan 04 06:13	13° \mathbb{B} 19'33	1°28'45	direct	5937 Nov 16 23:12	15° \mathbb{H} 12'36	
minimum elong	5932 Jan 04 06:15	13° \mathbb{B} 19'34	1°28'47	evening set	5938 Feb 26 09:00	22° \mathbb{H} 22'00	
max. Earth dist.	5932 Jan 04 04:25	13° \mathbb{B} 19'01	10.68225 AU				
morning rise	5932 Jan 21 05:37	15° \mathbb{B} 23'15		conjunction	5938 Mar 15 01:55	24° \mathbb{H} 21'08	-0°56'36
retrograde	5932 Apr 30 07:48	22° \mathbb{B} 40'01		minimum elong	5938 Mar 15 01:53	24° \mathbb{H} 21'07	0°56'36
opposition	5932 Jul 07 20:36	19° \mathbb{B} 20'50	1°36'57	max. Earth dist.	5938 Mar 15 01:05	24° \mathbb{H} 20'53	10.91414 AU
min. Earth dist.	5932 Jul 07 21:28	19° \mathbb{B} 20'40	8.72110 AU	morning rise	5938 Mar 31 18:55	26° \mathbb{H} 20'19	
direct	5932 Sep 16 08:33	15° \mathbb{B} 57'14			5938 May 04 15:51	0° \mathbb{Y}	
evening set	5932 Dec 29 15:17	23° \mathbb{B} 26'41		retrograde	5938 Jul 11 13:50	3° \mathbb{Y} 31'50	
				opposition	5938 Sep 19 23:39	0° \mathbb{Y} 12'08	-1°23'06
conjunction	5933 Jan 15 16:07	25° \mathbb{B} 29'53	1°07'49	min. Earth dist.	5938 Sep 20 00:09	0° \mathbb{Y} 12'02	8.90789 AU
minimum elong	5933 Jan 15 16:09	25° \mathbb{B} 29'54	1°07'51		5938 Sep 22 16:37	30° \mathbb{R} \mathbb{H}	
max. Earth dist.	5933 Jan 15 14:45	25° \mathbb{B} 29'28	10.75667 AU	direct	5938 Nov 29 04:09	26° \mathbb{H} 52'39	
morning rise	5933 Feb 01 13:32	27° \mathbb{B} 32'08			5939 Jan 31 10:08	0° \mathbb{Y}	
	5933 Feb 23 05:14	0° \approx		evening set	5939 Mar 10 02:57	4° \mathbb{Y} 01'14	
retrograde	5933 May 12 16:13	4° \approx 44'50					
opposition	5933 Jul 20 13:37	1° \approx 26'09	1°09'17	conjunction	5939 Mar 26 19:07	6° \mathbb{Y} 00'22	-1°18'23
min. Earth dist.	5933 Jul 20 15:05	1° \approx 25'52	8.78971 AU	minimum elong	5939 Mar 26 19:05	6° \mathbb{Y} 00'21	1°18'24
	5933 Aug 09 04:29	30° \mathbb{R} \mathbb{B}		max. Earth dist.	5939 Mar 26 18:05	6° \mathbb{Y} 00'03	10.89669 AU
direct	5933 Sep 29 05:10	28° \mathbb{B} 03'33		morning rise	5939 Apr 12 12:22	7° \mathbb{Y} 59'48	
	5933 Nov 17 17:30	0° \approx		retrograde	5939 Jul 23 21:28	15° \mathbb{Y} 14'41	
evening set	5934 Jan 10 21:25	5° \approx 27'05		opposition	5939 Oct 02 10:43	11° \mathbb{Y} 54'08	-1°48'04
				min. Earth dist.	5939 Oct 02 11:05	11° \mathbb{Y} 54'04	8.88273 AU
conjunction	5934 Jan 27 20:06	7° \approx 28'58	0°44'11	direct	5939 Dec 11 08:01	8° \mathbb{Y} 34'46	
minimum elong	5934 Jan 27 20:07	7° \approx 28'58	0°44'12	evening set	5940 Mar 20 22:11	15° \mathbb{Y} 43'40	
max. Earth dist.	5934 Jan 27 17:55	7° \approx 28'18	10.81906 AU				
morning rise	5934 Feb 13 16:03	9° \approx 30'03		conjunction	5940 Apr 06 14:20	17° \mathbb{Y} 43'09	-1°37'00
	5934 Apr 09 23:09	15° \approx		minimum elong	5940 Apr 06 14:18	17° \mathbb{Y} 43'08	1°37'01
retrograde	5934 May 24 21:08	16° \approx 39'54		max. Earth dist.	5940 Apr 06 14:15	17° \mathbb{Y} 43'07	10.86349 AU
	5934 Jul 10 07:01	15° \mathbb{R} \approx		morning rise	5940 Apr 23 08:15	19° \mathbb{Y} 43'10	
opposition	5934 Aug 02 03:47	13° \approx 21'32	0°39'00	retrograde	5940 Aug 04 07:30	27° \mathbb{Y} 02'25	
min. Earth dist.	5934 Aug 02 05:58	13° \approx 21'08	8.84494 AU	opposition	5940 Oct 13 23:01	23° \mathbb{Y} 40'54	-2°08'41
direct	5934 Oct 11 19:48	9° \approx 59'51		min. Earth dist.	5940 Oct 13 22:24	23° \mathbb{Y} 41'01	8.84239 AU
	5935 Jan 02 12:37	15° \approx		direct	5940 Dec 22 12:34	20° \mathbb{Y} 21'27	
evening set	5935 Jan 22 22:38	17° \approx 18'24		evening set	5941 Apr 01 19:52	27° \mathbb{Y} 31'49	
conjunction	5935 Feb 08 19:24	19° \approx 19'11	0°18'54	conjunction	5941 Apr 18 12:44	29° \mathbb{Y} 32'02	-1°51'39
minimum elong	5935 Feb 08 19:25	19° \approx 19'11	0°18'54	minimum elong	5941 Apr 18 12:42	29° \mathbb{Y} 32'01	1°51'41
max. Earth dist.	5935 Feb 08 16:29	19° \approx 18'19	10.86698 AU	max. Earth dist.	5941 Apr 18 13:59	29° \mathbb{Y} 32'24	10.81574 AU
morning rise	5935 Feb 25 14:15	21° \approx 19'24			5941 Apr 22 09:20	0° \mathbb{B}	
retrograde	5935 Jun 05 23:42	28° \approx 27'49		morning rise	5941 May 05 07:50	1° \mathbb{B} 32'57	
opposition	5935 Aug 14 16:08	25° \approx 09'28	0°07'24	retrograde	5941 Aug 16 23:50	8° \mathbb{B} 57'25	
min. Earth dist.	5935 Aug 14 18:11	25° \approx 09'05	8.88510 AU	opposition	5941 Oct 26 13:19	5° \mathbb{B} 34'52	-2°24'02
direct	5935 Oct 24 09:06	21° \approx 48'36		min. Earth dist.	5941 Oct 26 11:40	5° \mathbb{B} 35'11	8.78819 AU

direct	5942 Jan 03 18:10	2°♄15'12	direct	5948 Mar 19 00:33	17°♄43'51
evening set	5942 Apr 13 21:20	9°♄28'04	evening set	5948 Jun 28 15:18	25°♄27'20
conjunction	5942 Apr 30 15:28	11°♄29'22 -2°01'38	conjunction	5948 Jul 16 07:23	27°♄40'48 -1°03'35
minimum elong	5942 Apr 30 15:27	11°♄29'22 2°01'40	minimum elong	5948 Jul 16 07:25	27°♄40'49 1°03'36
max. Earth dist.	5942 Apr 30 17:16	11°♄29'55 10.75515 AU	max. Earth dist.	5948 Jul 16 10:22	27°♄41'44 10.29572 AU
morning rise	5942 May 17 12:30	13°♄31'35	morning rise	5948 Aug 03 03:08	29°♄55'24
	5942 May 30 04:20	15°♄		5948 Aug 03 18:00	0°♄
retrograde	5942 Aug 29 20:08	21°♄01'50	retrograde	5948 Nov 17 04:34	7°♄58'17
opposition	5942 Nov 08 06:17	17°♄38'16 -2°33'18	opposition	5949 Jan 24 12:21	4°♄30'21 -1°02'21
min. Earth dist.	5942 Nov 08 04:18	17°♄38'39 8.72221 AU	min. Earth dist.	5949 Jan 24 09:55	4°♄30'51 8.26577 AU
	5942 Dec 18 04:23	15°♄♄	direct	5949 Apr 01 10:28	1°♄05'25
direct	5943 Jan 16 00:21	14°♄18'13	evening set	5949 Jul 12 16:22	8°♄54'50
	5943 Feb 13 10:35	15°♄			
evening set	5943 Apr 26 03:36	21°♄34'35	conjunction	5949 Jul 30 12:15	11°♄10'11 -0°36'27
conjunction	5943 May 12 23:46	23°♄37'19 -2°06'20	minimum elong	5949 Jul 30 12:17	11°♄10'11 0°36'28
minimum elong	5943 May 12 23:46	23°♄37'19 2°06'22	max. Earth dist.	5949 Jul 30 14:34	11°♄10'55 10.23920 AU
max. Earth dist.	5943 May 13 01:15	23°♄37'46 10.68427 AU	morning rise	5949 Aug 17 11:15	13°♄26'29
morning rise	5943 May 29 23:35	25°♄41'10		5949 Aug 30 05:22	15°♄
	5943 Jul 08 15:13	0°♄♄	retrograde	5949 Dec 01 06:20	21°♄31'40
retrograde	5943 Sep 11 20:18	3°♄♄17'37	opposition	5950 Feb 07 04:49	18°♄03'41 -0°27'03
	5943 Nov 19 14:19	30°♄♄	min. Earth dist.	5950 Feb 07 03:00	18°♄04'03 8.21656 AU
opposition	5943 Nov 21 02:29	29°♄53'02 -2°35'49	direct	5950 Mar 26 00:35	15°♄♄
min. Earth dist.	5943 Nov 21 00:43	29°♄53'22 8.64727 AU		5950 Apr 15 02:44	14°♄37'50
direct	5944 Jan 28 10:54	26°♄32'24	evening set	5950 May 05 02:49	15°♄
	5944 Apr 02 14:42	0°♄♄		5950 Jul 26 23:45	22°♄32'35
evening set	5944 May 07 15:29	3°♄♄53'09	conjunction	5950 Aug 13 22:37	24°♄49'22 -0°07'03
conjunction	5944 May 24 14:39	5°♄♄57'41 -2°05'20	minimum elong	5950 Aug 13 22:38	24°♄49'22 0°07'04
minimum elong	5944 May 24 14:40	5°♄♄57'42 2°05'21	behind sun begin	5950 Aug 13 15:54	24°♄47'14
max. Earth dist.	5944 May 24 16:25	5°♄♄58'14 10.60612 AU	behind sun end	5950 Aug 14 05:22	24°♄51'30
morning rise	5944 Jun 10 17:56	8°♄♄03'28	max. Earth dist.	5950 Aug 14 00:43	24°♄50'00 10.19821 AU
retrograde	5944 Sep 24 02:23	15°♄♄46'14	morning rise	5950 Aug 31 23:40	27°♄06'49
opposition	5944 Dec 03 02:04	12°♄♄20'41 -2°31'07		5950 Sep 25 02:38	0°♄♄
min. Earth dist.	5944 Dec 03 00:15	12°♄♄21'02 8.56656 AU	asc. node	5950 Nov 10 06:23	4°♄♄07'30
direct	5945 Feb 09 01:47	8°♄♄59'20	retrograde	5950 Dec 15 08:46	5°♄♄12'50
evening set	5945 May 20 10:06	16°♄♄25'11	opposition	5951 Feb 20 23:10	1°♄♄44'59 0°10'09
conjunction	5945 Jun 06 13:04	18°♄♄31'49 -1°58'21	min. Earth dist.	5951 Feb 20 21:33	1°♄♄45'19 8.18419 AU
minimum elong	5945 Jun 06 13:06	18°♄♄31'49 1°58'22		5951 Mar 15 12:12	30°♄♄
max. Earth dist.	5945 Jun 06 15:45	18°♄♄32'39 10.52407 AU	direct	5951 Apr 28 23:19	28°♄18'17
morning rise	5945 Jun 23 20:12	20°♄♄39'45	evening set	5951 Jun 11 16:03	0°♄♄
retrograde	5945 Oct 07 13:37	28°♄♄28'38		5951 Aug 10 12:21	6°♄♄17'30
opposition	5945 Dec 16 05:10	25°♄♄02'13 -2°19'01	conjunction	5951 Aug 28 13:03	8°♄♄35'09 0°23'03
min. Earth dist.	5945 Dec 16 02:44	25°♄♄02'41 8.48383 AU	minimum elong	5951 Aug 28 13:02	8°♄♄35'09 0°23'02
direct	5946 Feb 21 20:40	21°♄♄40'04	max. Earth dist.	5951 Aug 28 14:50	8°♄♄35'43 10.17469 AU
evening set	5946 Jun 02 12:01	29°♄♄11'33	morning rise	5951 Sep 15 14:44	10°♄♄53'07
	5946 Jun 09 01:17	0°♄♄	retrograde	5951 Dec 29 11:20	18°♄♄58'24
conjunction	5946 Jun 19 19:17	1°♄♄20'27 -1°45'26	opposition	5952 Mar 05 18:24	15°♄♄30'53 0°46'58
minimum elong	5946 Jun 19 19:20	1°♄♄20'28 1°45'28	min. Earth dist.	5952 Mar 05 17:04	15°♄♄31'09 8.16984 AU
max. Earth dist.	5946 Jun 19 22:52	1°♄♄21'34 10.44216 AU	direct	5952 May 11 21:49	12°♄♄03'27
morning rise	5946 Jul 07 06:38	3°♄♄30'40	evening set	5952 Aug 24 04:09	20°♄♄06'06
retrograde	5946 Oct 21 06:07	11°♄♄25'10	conjunction	5952 Sep 11 05:18	22°♄♄23'57 0°51'51
opposition	5946 Dec 29 12:07	7°♄♄58'02 -1°59'41	minimum elong	5952 Sep 11 05:16	22°♄♄23'56 0°51'50
min. Earth dist.	5946 Dec 29 08:59	7°♄♄58'39 8.40328 AU	max. Earth dist.	5952 Sep 11 06:17	22°♄♄24'16 10.16910 AU
direct	5947 Mar 06 20:31	4°♄♄35'01	morning rise	5952 Sep 29 06:12	24°♄♄41'45
evening set	5947 Jun 15 21:38	12°♄♄12'26		5952 Nov 15 22:08	0°♄♄
conjunction	5947 Jul 03 09:24	14°♄♄23'41 -1°26'57	retrograde	5953 Jan 11 13:52	2°♄♄44'58
minimum elong	5947 Jul 03 09:27	14°♄♄23'42 1°26'58		5953 Mar 10 22:55	30°♄♄
max. Earth dist.	5947 Jul 03 12:59	14°♄♄24'49 10.36466 AU	opposition	5953 Mar 19 14:01	29°♄♄18'00 1°21'08
morning rise	5947 Jul 21 01:07	16°♄♄36'11	min. Earth dist.	5953 Mar 19 13:18	29°♄♄18'09 8.17338 AU
retrograde	5947 Nov 04 03:42	24°♄♄35'28	direct	5953 May 25 22:40	25°♄♄50'04
opposition	5948 Jan 11 22:42	21°♄♄07'49 -1°33'46		5953 Aug 05 08:07	0°♄♄
min. Earth dist.	5948 Jan 11 19:39	21°♄♄08'25 8.32922 AU	evening set	5953 Sep 07 20:52	3°♄♄54'55
			conjunction	5953 Sep 25 21:06	6°♄♄12'20 1°17'39

minimum elong	5953 Sep 25 21:04	6°♌12'19	1°17'38	morning rise	5960 Jan 03 15:43	28°♏04'24	
max. Earth dist.	5953 Sep 25 21:08	6°♌12'21	10.18117 AU		5960 Jan 20 01:04	0°♏	
morning rise	5953 Oct 13 19:59	8°♌29'24		retrograde	5960 Apr 13 01:08	5°♏28'50	
retrograde	5954 Jan 25 12:46	16°♌29'21		opposition	5960 Jun 19 23:43	2°♏08'13	2°09'10
opposition	5954 Apr 02 09:13	13°♌03'10	1°50'32	min. Earth dist.	5960 Jun 20 01:32	2°♏07'52	8.59874 AU
min. Earth dist.	5954 Apr 02 09:24	13°♌03'07	8.19469 AU		5960 Jul 19 20:13	30°♏♏	
direct	5954 Jun 09 01:33	9°♌34'56		direct	5960 Aug 29 02:05	28°♏42'41	
evening set	5954 Sep 22 12:36	17°♌40'32			5960 Oct 07 20:14	0°♏	
				evening set	5960 Dec 12 04:45	6°♏21'35	
conjunction	5954 Oct 10 10:50	19°♌56'58	1°38'54				
minimum elong	5954 Oct 10 10:47	19°♌56'57	1°38'54	conjunction	5960 Dec 29 08:56	8°♏27'10	1°36'26
max. Earth dist.	5954 Oct 10 09:37	19°♌56'35	10.21103 AU	minimum elong	5960 Dec 29 08:58	8°♏27'10	1°36'29
morning rise	5954 Oct 28 06:50	22°♌12'46		max. Earth dist.	5960 Dec 29 06:45	8°♏26'29	10.63877 AU
	5955 Jan 27 02:37	0°♌		morning rise	5961 Jan 15 09:19	10°♏31'36	
retrograde	5955 Feb 08 07:20	0°♌08'16		retrograde	5961 Apr 25 11:58	17°♏50'27	
	5955 Feb 20 12:15	30°♏♌		opposition	5961 Jul 02 21:20	14°♏30'31	1°47'27
opposition	5955 Apr 16 03:01	26°♌42'59	2°13'26	min. Earth dist.	5961 Jul 02 23:25	14°♏30'07	8.67894 AU
min. Earth dist.	5955 Apr 16 04:19	26°♌42'43	8.23356 AU	direct	5961 Sep 11 07:06	11°♏05'56	
direct	5955 Jun 23 04:49	23°♌14'42		evening set	5961 Dec 24 19:42	18°♏38'09	
	5955 Sep 26 05:48	0°♌					
evening set	5955 Oct 07 00:59	1°♌19'19		conjunction	5962 Jan 10 21:25	20°♏42'03	1°16'58
				minimum elong	5962 Jan 10 21:28	20°♏42'04	1°17'00
conjunction	5955 Oct 24 20:25	3°♌34'19	1°54'27	max. Earth dist.	5962 Jan 10 18:54	20°♏41'17	10.71638 AU
minimum elong	5955 Oct 24 20:23	3°♌34'18	1°54'27	morning rise	5962 Jan 27 19:53	22°♏44'58	
max. Earth dist.	5955 Oct 24 18:00	3°♌33'33	10.25790 AU	retrograde	5962 May 07 19:56	29°♏59'12	
morning rise	5955 Nov 11 12:59	5°♌48'26		opposition	5962 Jul 15 15:19	26°♏39'49	1°21'17
retrograde	5956 Feb 21 21:16	13°♌38'27		min. Earth dist.	5962 Jul 15 16:49	26°♏39'32	8.75251 AU
opposition	5956 Apr 28 18:47	10°♌14'10	2°28'39	direct	5962 Sep 24 06:52	23°♏16'14	
min. Earth dist.	5956 Apr 28 20:37	10°♌13'47	8.28839 AU		5962 Dec 31 04:10	0°♏	
direct	5956 Jul 06 06:44	6°♌46'02		evening set	5963 Jan 06 03:58	0°♏42'10	
evening set	5956 Oct 20 07:43	14°♌47'54					
	5956 Oct 21 22:44	15°♌		conjunction	5963 Jan 23 03:34	2°♏44'37	0°54'21
conjunction	5956 Nov 06 23:58	17°♌01'09	2°03'32	minimum elong	5963 Jan 23 03:35	2°♏44'37	0°54'22
minimum elong	5956 Nov 06 23:57	17°♌01'09	2°03'33	max. Earth dist.	5963 Jan 23 01:46	2°♏44'04	10.78565 AU
max. Earth dist.	5956 Nov 06 21:02	17°♌00'14	10.31952 AU	morning rise	5963 Feb 09 00:16	4°♏46'12	
morning rise	5956 Nov 24 12:48	19°♌13'19		retrograde	5963 May 20 02:06	11°♏56'57	
retrograde	5957 Mar 06 06:05	26°♌57'10		opposition	5963 Jul 28 06:10	8°♏37'56	0°51'58
opposition	5957 May 12 07:35	23°♌33'51	2°35'35	min. Earth dist.	5963 Jul 28 06:45	8°♏37'50	8.81625 AU
min. Earth dist.	5957 May 12 09:21	23°♌33'30	8.35625 AU	direct	5963 Oct 07 00:06	5°♏15'24	
direct	5957 Jul 20 06:32	20°♌06'08		evening set	5964 Jan 18 06:34	12°♏35'42	
evening set	5957 Nov 03 07:20	28°♌03'41		conjunction	5964 Feb 04 04:18	14°♏36'55	0°29'40
	5957 Nov 18 20:40	0°♏		minimum elong	5964 Feb 04 04:19	14°♏36'55	0°29'41
conjunction	5957 Nov 20 20:22	0°♏15'00	2°05'55	max. Earth dist.	5964 Feb 04 03:36	14°♏36'42	10.84366 AU
minimum elong	5957 Nov 20 20:22	0°♏15'00	2°05'57		5964 Feb 07 08:57	15°♏	
max. Earth dist.	5957 Nov 20 17:36	0°♏14'08	10.39256 AU	morning rise	5964 Feb 20 23:31	16°♏37'27	
morning rise	5957 Dec 08 05:33	2°♏25'08		retrograde	5964 May 31 05:58	23°♏45'57	
retrograde	5958 Mar 19 08:59	10°♏02'23		opposition	5964 Aug 08 18:43	20°♏27'10	0°20'49
opposition	5958 May 25 16:45	6°♏40'02	2°34'15	min. Earth dist.	5964 Aug 08 18:51	20°♏27'09	8.86762 AU
min. Earth dist.	5958 May 25 18:05	6°♏39'46	8.43341 AU	direct	5964 Oct 18 12:52	17°♏05'36	
direct	5958 Aug 03 02:40	3°♏12'55		evening set	5965 Jan 29 04:47	24°♏21'10	
evening set	5958 Nov 16 22:52	11°♏04'55		conjunction	5965 Feb 15 00:45	26°♏21'24	0°04'01
conjunction	5958 Dec 04 08:50	13°♏14'15	2°01'48	minimum elong	5965 Feb 15 00:44	26°♏21'23	0°04'01
minimum elong	5958 Dec 04 08:51	13°♏14'15	2°01'50	behind sun begin	5965 Feb 14 17:49	26°♏19'21	
max. Earth dist.	5958 Dec 04 06:46	13°♏13'36	10.47297 AU	behind sun end	5965 Feb 15 07:40	26°♏23'26	
morning rise	5958 Dec 21 14:37	15°♏22'21		max. Earth dist.	5965 Feb 15 00:19	26°♏21'17	10.88806 AU
retrograde	5959 Apr 01 07:22	22°♏53'01		morning rise	5965 Mar 03 18:56	28°♏21'07	
opposition	5959 Jun 07 22:11	19°♏31'35	2°25'09		5965 Mar 18 05:04	0°♏	
min. Earth dist.	5959 Jun 07 23:35	19°♏31'18	8.51562 AU	desc. node	5965 Apr 13 11:55	2°♏38'39	
direct	5959 Aug 16 17:31	16°♏05'12		retrograde	5965 Jun 12 09:11	5°♏28'40	
evening set	5959 Nov 30 05:58	23°♏50'50		opposition	5965 Aug 21 05:29	2°♏09'56	-0°10'53
				min. Earth dist.	5965 Aug 21 05:56	2°♏09'51	8.90456 AU
conjunction	5959 Dec 17 12:56	25°♏58'14	1°51'42		5965 Sep 21 19:15	30°♏♏	
minimum elong	5959 Dec 17 12:58	25°♏58'14	1°51'44	direct	5965 Oct 30 21:35	28°♏49'14	
max. Earth dist.	5959 Dec 17 11:06	25°♏57'40	10.55638 AU	evening set	5965 Dec 08 04:01	0°♏	
					5966 Feb 10 00:05	6°♏01'07	

conjunction	5966 Feb 26 18:25	8° ✕ 00'35 -0°21'47	conjunction	5972 May 06 21:02	18° 8 29'10 -2°04'45
minimum elong	5966 Feb 26 18:24	8° ✕ 00'35 0°21'46	minimum elong	5972 May 06 21:01	18° 8 29'09 2°04'46
max. Earth dist.	5966 Feb 26 17:30	8° ✕ 00'19 10.91711 AU	max. Earth dist.	5972 May 06 23:11	18° 8 29'49 10.75151 AU
morning rise	5966 Mar 15 11:57	9° ✕ 59'48	morning rise	5972 May 23 19:16	20° 8 31'47
retrograde	5966 Jun 24 10:42	17° ✕ 07'39	retrograde	5972 Sep 05 08:36	28° 8 03'53
opposition	5966 Sep 02 15:00	13° ✕ 48'46 -0°41'57	opposition	5972 Nov 14 17:54	24° 8 40'34 -2°35'13
min. Earth dist.	5966 Sep 02 15:16	13° ✕ 48'43 8.92562 AU	min. Earth dist.	5972 Nov 14 15:57	24° 8 40'56 8.71615 AU
direct	5966 Nov 12 03:19	10° ✕ 28'49	direct	5973 Jan 22 08:10	21° 8 21'00
evening set	5967 Feb 21 17:33	17° ✕ 38'09	evening set	5973 May 02 10:21	28° 8 38'13
				5973 May 13 16:22	0° Π
conjunction	5967 Mar 10 10:43	19° ✕ 37'08 -0°46'29	conjunction	5973 May 19 08:00	0° Π 41'29 -2°06'19
minimum elong	5967 Mar 10 10:41	19° ✕ 37'08 0°46'28	minimum elong	5973 May 19 08:00	0° Π 41'29 2°06'20
max. Earth dist.	5967 Mar 10 10:31	19° ✕ 37'05 10.92973 AU	max. Earth dist.	5973 May 19 10:03	0° Π 42'07 10.67548 AU
morning rise	5967 Mar 27 03:47	21° ✕ 36'06	morning rise	5973 Jun 05 09:16	2° Π 45'54
retrograde	5967 Jul 06 15:05	28° ✕ 45'35	retrograde	5973 Sep 18 13:02	10° Π 24'18
opposition	5967 Sep 15 00:23	25° ✕ 26'19 -1°11'12	opposition	5973 Nov 27 14:51	6° Π 59'57 -2°33'48
min. Earth dist.	5967 Sep 14 23:40	25° ✕ 26'27 8.93005 AU	min. Earth dist.	5973 Nov 27 12:56	7° Π 00'19 8.63554 AU
direct	5967 Nov 24 09:14	22° ✕ 06'58	direct	5974 Feb 03 18:54	3° Π 39'42
evening set	5968 Mar 04 10:25	29° ✕ 14'50	evening set	5974 May 15 00:53	11° Π 01'44
	5968 Mar 10 19:47	0° Υ			
conjunction	5968 Mar 21 02:51	1° Υ 13'40 -1°09'16	conjunction	5974 Jun 01 01:48	13° Π 06'59 -2°02'03
minimum elong	5968 Mar 21 02:49	1° Υ 13'40 1°09'16	minimum elong	5974 Jun 01 01:49	13° Π 06'59 2°02'05
max. Earth dist.	5968 Mar 21 04:01	1° Υ 14'01 10.92547 AU	max. Earth dist.	5974 Jun 01 03:11	13° Π 07'25 10.59160 AU
morning rise	5968 Apr 06 19:45	3° Υ 12'41	morning rise	5974 Jun 18 06:50	15° Π 13'30
retrograde	5968 Jul 17 22:07	10° Υ 24'56	retrograde	5974 Oct 01 21:07	22° Π 58'13
opposition	5968 Sep 26 10:08	7° Υ 05'08 -1°37'35	opposition	5974 Dec 10 15:33	19° Π 32'52 -2°25'06
min. Earth dist.	5968 Sep 26 08:29	7° Υ 05'26 8.91767 AU	min. Earth dist.	5974 Dec 10 14:05	19° Π 33'10 8.54924 AU
direct	5968 Dec 05 11:19	3° Υ 46'12	direct	5975 Feb 16 09:59	16° Π 11'43
evening set	5969 Mar 16 04:16	10° Υ 53'46	evening set	5975 May 27 22:29	23° Π 39'16
conjunction	5969 Apr 01 20:20	12° Υ 52'45 -1°29'16	conjunction	5975 Jun 14 03:24	25° Π 46'45 -1°51'52
minimum elong	5969 Apr 01 20:18	12° Υ 52'44 1°29'16	minimum elong	5975 Jun 14 03:26	25° Π 46'45 1°51'53
max. Earth dist.	5969 Apr 01 21:50	12° Υ 53'12 10.90453 AU	max. Earth dist.	5975 Jun 14 04:14	25° Π 47'00 10.50458 AU
morning rise	5969 Apr 18 13:39	14° Υ 52'10	morning rise	5975 Jul 01 12:43	27° Π 55'33
retrograde	5969 Jul 30 06:38	22° Υ 08'11		5975 Jul 19 02:26	0° ☾
opposition	5969 Oct 08 20:51	18° Υ 47'41 -2°00'04	retrograde	5975 Oct 15 09:15	5° ☾ 46'16
min. Earth dist.	5969 Oct 08 19:19	18° Υ 47'59 8.88897 AU	opposition	5975 Dec 23 19:56	2° ☾ 19'57 -2°09'07
direct	5969 Dec 17 13:24	15° Υ 28'57	min. Earth dist.	5975 Dec 23 19:01	2° ☾ 20'08 8.46210 AU
evening set	5970 Mar 28 00:09	22° Υ 37'23		5976 Jan 25 14:04	30° ♊
conjunction	5970 Apr 13 16:21	24° Υ 36'52 -1°45'39	direct	5976 Feb 29 07:43	28° Π 57'44
minimum elong	5970 Apr 13 16:19	24° Υ 36'51 1°45'40		5976 Apr 03 11:36	0° ☾
max. Earth dist.	5970 Apr 13 17:25	24° Υ 37'11 10.86773 AU	evening set	5976 Jun 09 03:35	6° ☾ 31'15
morning rise	5970 Apr 30 10:43	26° Υ 37'00	conjunction	5976 Jun 26 13:03	8° ☾ 41'06 -1°35'55
	5970 May 31 05:33	0° 8	minimum elong	5976 Jun 26 13:06	8° ☾ 41'07 1°35'57
retrograde	5970 Aug 11 19:25	3° 8 57'41	max. Earth dist.	5976 Jun 26 14:14	8° ☾ 41'28 10.41908 AU
opposition	5970 Oct 21 09:29	0° 8 36'23 -2°17'43	morning rise	5976 Jul 14 02:45	10° ☾ 52'16
min. Earth dist.	5970 Oct 21 08:13	0° 8 36'38 8.84490 AU	retrograde	5976 Oct 28 02:39	18° ☾ 48'18
	5970 Oct 29 12:00	30° ♊	opposition	5977 Jan 05 03:57	15° ☾ 21'09 -1°46'14
direct	5970 Dec 29 17:44	27° Υ 17'35	min. Earth dist.	5977 Jan 05 02:55	15° ☾ 21'22 8.37872 AU
	5971 Feb 25 16:40	0° 8	direct	5977 Mar 13 10:05	11° ☾ 57'47
evening set	5971 Apr 08 22:56	4° 8 27'56	evening set	5977 Jun 22 16:32	19° ☾ 37'28
conjunction	5971 Apr 25 16:05	6° 8 28'17 -1°57'41	conjunction	5977 Jul 10 06:34	21° ☾ 49'41 -1°14'46
minimum elong	5971 Apr 25 16:03	6° 8 28'17 1°57'43	minimum elong	5977 Jul 10 06:36	21° ☾ 49'41 1°14'48
max. Earth dist.	5971 Apr 25 17:23	6° 8 28'41 10.81625 AU	max. Earth dist.	5977 Jul 10 08:20	21° ☾ 50'14 10.33952 AU
morning rise	5971 May 12 12:06	8° 8 29'29	morning rise	5977 Jul 28 00:21	24° ☾ 03'05
	5971 Jul 21 16:45	15° 8		5977 Sep 22 09:14	0° ♏
retrograde	5971 Aug 24 11:16	15° 8 55'37	retrograde	5977 Nov 11 00:55	2° ♏ 03'31
	5971 Sep 27 18:36	15° ♊		5977 Dec 31 14:32	30° ♊
opposition	5971 Nov 03 00:24	12° 8 33'21 -2°29'40	opposition	5978 Jan 18 15:20	28° ☾ 35'43 -1°17'20
min. Earth dist.	5971 Nov 02 22:58	12° 8 33'37 8.78678 AU	min. Earth dist.	5978 Jan 18 13:52	28° ☾ 36'01 8.30352 AU
direct	5972 Jan 10 23:21	9° 8 14'16	direct	5978 Mar 26 16:44	25° ☾ 11'11
	5972 Apr 07 13:11	15° 8		5978 Jun 11 14:43	0° ♏
evening set	5972 Apr 20 01:59	16° 8 27'33	evening set	5978 Jul 06 13:10	2° ♏ 57'02

conjunction	5978 Jul 24 07:25	5°♏11'22	-0°49'19	conjunction	5984 Oct 17 12:44	27°♑28'44	1°47'56
minimum elong	5978 Jul 24 07:27	5°♏11'23	0°49'21	minimum elong	5984 Oct 17 12:41	27°♑28'43	1°47'56
max. Earth dist.	5978 Jul 24 09:26	5°♏12'01	10.27026 AU	max. Earth dist.	5984 Oct 17 12:05	27°♑28'31	10.22212 AU
morning rise	5978 Aug 11 04:46	7°♏26'45		morning rise	5984 Nov 04 07:00	29°♑43'47	
	5978 Nov 01 02:52	15°♏			5984 Nov 06 11:07	0°♑	
retrograde	5978 Nov 25 01:43	15°♏30'23		retrograde	5985 Feb 14 22:21	7°♑36'46	
	5978 Dec 19 01:31	15°♏		opposition	5985 Apr 22 19:25	4°♑11'28	2°22'33
opposition	5979 Feb 01 05:46	12°♏02'10	-0°43'44	min. Earth dist.	5985 Apr 22 19:32	4°♑11'27	8.25017 AU
min. Earth dist.	5979 Feb 01 04:07	12°♏02'30	8.24069 AU	direct	5985 Jun 30 02:25	0°♑42'50	
direct	5979 Apr 09 04:57	8°♏36'29		evening set	5985 Oct 14 01:05	8°♑46'20	
	5979 Jul 08 16:53	15°♏					
evening set	5979 Jul 20 16:55	16°♏28'12		conjunction	5985 Oct 31 19:06	11°♑00'33	2°00'05
				minimum elong	5985 Oct 31 19:04	11°♑00'33	2°00'05
conjunction	5979 Aug 07 14:36	18°♏44'18	-0°20'51	max. Earth dist.	5985 Oct 31 18:22	11°♑00'19	10.27963 AU
minimum elong	5979 Aug 07 14:37	18°♏44'19	0°20'52	morning rise	5985 Nov 18 09:40	13°♑13'45	
max. Earth dist.	5979 Aug 07 16:08	18°♏44'48	10.21506 AU		5985 Dec 03 00:04	15°♑	
morning rise	5979 Aug 25 14:40	21°♏01'12		retrograde	5986 Feb 28 10:57	21°♑00'51	
retrograde	5979 Dec 09 04:20	29°♏06'39		opposition	5986 May 06 09:40	17°♑36'43	2°33'21
opposition	5980 Feb 14 22:42	25°♏38'18	-0°07'14	min. Earth dist.	5986 May 06 10:21	17°♑36'34	8.31499 AU
min. Earth dist.	5980 Feb 14 21:32	25°♏38'32	8.19363 AU		5986 Jun 12 10:03	15°♏	
direct	5980 Apr 21 21:41	22°♏11'34		direct	5986 Jul 14 02:31	14°♑08'31	
asc. node	5980 Apr 28 10:20	22°♏13'56			5986 Aug 14 16:52	15°♑	
	5980 Aug 01 23:31	0°♑		evening set	5986 Oct 28 04:23	22°♑08'28	
evening set	5980 Aug 03 02:46	0°♑08'31					
				conjunction	5986 Nov 14 19:05	24°♑20'48	2°05'35
conjunction	5980 Aug 21 02:44	2°♑25'51	0°09'08	minimum elong	5986 Nov 14 19:04	24°♑20'48	2°05'36
minimum elong	5980 Aug 21 02:43	2°♑25'51	0°09'07	max. Earth dist.	5986 Nov 14 17:45	24°♑20'23	10.35058 AU
behind sun begin	5980 Aug 20 20:32	2°♑23'54		morning rise	5986 Dec 02 05:58	26°♑32'00	
behind sun end	5980 Aug 21 08:54	2°♑27'49			5987 Jan 01 03:34	0°♑	
max. Earth dist.	5980 Aug 21 03:10	2°♑25'59	10.17691 AU	retrograde	5987 Mar 13 16:20	4°♑12'38	
morning rise	5980 Sep 08 04:14	4°♑43'41		opposition	5987 May 19 20:40	0°♑49'43	2°35'48
retrograde	5980 Dec 22 07:28	12°♑49'27		min. Earth dist.	5987 May 19 22:05	0°♑49'26	8.39119 AU
opposition	5981 Feb 27 17:15	9°♑21'14	0°29'59		5987 May 30 09:20	30°♏	
min. Earth dist.	5981 Feb 27 16:58	9°♑21'18	8.16502 AU	direct	5987 Jul 28 00:40	27°♑22'12	
direct	5981 May 05 18:21	5°♑53'35			5987 Sep 22 23:36	0°♑	
evening set	5981 Aug 17 16:53	13°♑54'51		evening set	5987 Nov 11 00:10	5°♑17'15	
conjunction	5981 Sep 04 17:52	16°♑12'46	0°38'40	conjunction	5987 Nov 28 11:31	7°♑27'35	2°04'25
minimum elong	5981 Sep 04 17:50	16°♑12'45	0°38'39	minimum elong	5987 Nov 28 11:32	7°♑27'35	2°04'27
max. Earth dist.	5981 Sep 04 17:29	16°♑12'38	10.15804 AU	max. Earth dist.	5987 Nov 28 09:27	7°♑26'56	10.43102 AU
morning rise	5981 Sep 22 19:25	18°♑30'50		morning rise	5987 Dec 15 18:58	9°♑36'43	
retrograde	5982 Jan 05 09:39	26°♑35'26		retrograde	5988 Mar 25 17:01	17°♑10'46	
opposition	5982 Mar 13 12:47	23°♑07'37	1°05'40	opposition	5988 Jun 01 04:15	13°♑49'00	2°30'11
min. Earth dist.	5982 Mar 13 12:57	23°♑07'35	8.15655 AU	min. Earth dist.	5988 Jun 01 05:46	13°♑48'42	8.47466 AU
direct	5982 May 19 19:17	19°♑39'17		direct	5988 Aug 09 18:20	10°♑22'23	
evening set	5982 Sep 01 09:10	27°♑43'33		evening set	5988 Nov 23 11:31	18°♑11'26	
conjunction	5982 Sep 19 09:57	0°♑01'22	1°06'03	conjunction	5988 Dec 10 19:46	20°♑19'46	1°56'59
minimum elong	5982 Sep 19 09:54	0°♑01'21	1°06'03	minimum elong	5988 Dec 10 19:48	20°♑19'47	1°57'01
max. Earth dist.	5982 Sep 19 09:08	0°♑01'07	10.15957 AU	max. Earth dist.	5988 Dec 10 17:39	20°♑19'07	10.51669 AU
	5982 Sep 19 05:40	0°♑		morning rise	5988 Dec 28 00:07	22°♑26'55	
morning rise	5982 Oct 07 10:10	2°♑19'02		retrograde	5989 Apr 07 13:08	29°♑54'34	
retrograde	5983 Jan 19 08:26	10°♑21'00		opposition	5989 Jun 14 07:58	26°♑33'49	2°17'14
opposition	5983 Mar 27 08:13	6°♑53'49	1°37'32	min. Earth dist.	5989 Jun 14 08:54	26°♑33'38	8.56104 AU
min. Earth dist.	5983 Mar 27 08:29	6°♑53'46	8.16862 AU	direct	5989 Aug 23 06:37	23°♑08'13	
direct	5983 Jun 02 22:31	3°♑25'05			5989 Nov 29 12:42	0°♑	
evening set	5983 Sep 16 01:38	11°♑30'49		evening set	5989 Dec 06 14:36	0°♑50'38	
conjunction	5983 Oct 04 01:00	13°♑47'55	1°29'36	conjunction	5989 Dec 23 20:08	2°♑57'06	1°43'59
minimum elong	5983 Oct 04 00:57	13°♑47'54	1°29'36	minimum elong	5989 Dec 23 20:10	2°♑57'07	1°44'01
max. Earth dist.	5983 Oct 04 00:06	13°♑47'38	10.18133 AU	max. Earth dist.	5989 Dec 23 18:43	2°♑56'40	10.60320 AU
morning rise	5983 Oct 21 22:40	16°♑04'30		morning rise	5990 Jan 09 21:44	5°♑02'24	
retrograde	5984 Feb 02 04:53	24°♑02'33		retrograde	5990 Apr 20 03:37	12°♑24'05	
opposition	5984 Apr 09 02:37	20°♑36'13	2°03'39	opposition	5990 Jun 27 07:39	9°♑04'15	1°57'59
min. Earth dist.	5984 Apr 09 02:38	20°♑36'13	8.20043 AU	min. Earth dist.	5990 Jun 27 08:15	9°♑04'08	8.64599 AU
direct	5984 Jun 16 01:17	17°♑07'22		direct	5990 Sep 05 14:09	5°♑39'41	
evening set	5984 Sep 29 15:43	25°♑12'52		evening set	5990 Dec 19 09:48	13°♑15'20	

conjunction	5991 Jan 05 12:50	15° \mathfrak{Z} 20'02	1°26'18	opposition	5996 Sep 08 19:24	20° \mathfrak{H} 28'24	-0°58'16
minimum elong	5991 Jan 05 12:52	15° \mathfrak{Z} 20'02	1°26'21	min. Earth dist.	5996 Sep 08 20:09	20° \mathfrak{H} 28'15	8.92241 AU
max. Earth dist.	5991 Jan 05 11:56	15° \mathfrak{Z} 19'45	10.68615 AU	direct	5996 Nov 18 05:12	17° \mathfrak{H} 08'46	
morning rise	5991 Jan 22 12:04	17° \mathfrak{Z} 23'38		evening set	5997 Feb 27 13:39	24° \mathfrak{H} 17'46	
retrograde	5991 May 02 15:17	24° \mathfrak{Z} 40'11					
opposition	5991 Jul 10 03:51	21° \mathfrak{Z} 21'03	1°33'41	conjunction	5997 Mar 16 06:22	26° \mathfrak{H} 16'47	-0°59'16
min. Earth dist.	5991 Jul 10 04:44	21° \mathfrak{Z} 20'53	8.72527 AU	minimum elong	5997 Mar 16 06:21	26° \mathfrak{H} 16'47	0°59'16
direct	5991 Sep 18 15:40	17° \mathfrak{Z} 57'33		max. Earth dist.	5997 Mar 16 04:58	26° \mathfrak{H} 16'22	10.91923 AU
evening set	5991 Dec 31 21:41	25° \mathfrak{Z} 26'35		morning rise	5997 Apr 01 23:26	28° \mathfrak{H} 15'54	
					5997 Apr 17 05:05	0° \mathfrak{Y}	
conjunction	5992 Jan 17 22:19	27° \mathfrak{Z} 29'42	1°05'00	retrograde	5997 Jul 12 18:52	5° \mathfrak{Y} 27'20	
minimum elong	5992 Jan 17 22:21	27° \mathfrak{Z} 29'42	1°05'02	opposition	5997 Sep 21 05:29	2° \mathfrak{Y} 07'39	-1°26'09
max. Earth dist.	5992 Jan 17 21:03	27° \mathfrak{Z} 29'19	10.76130 AU	min. Earth dist.	5997 Sep 21 06:18	2° \mathfrak{Y} 07'30	8.91255 AU
morning rise	5992 Feb 03 19:41	29° \mathfrak{Z} 31'52			5997 Oct 22 05:02	30° \mathfrak{R} \mathfrak{H}	
	5992 Feb 07 19:02	0° \approx		direct	5997 Nov 30 09:17	28° \mathfrak{H} 48'16	
retrograde	5992 May 13 22:31	6° \approx 44'18			5998 Jan 07 15:24	0° \mathfrak{Y}	
opposition	5992 Jul 21 20:46	3° \approx 25'39	1°05'38	evening set	5998 Mar 11 07:27	5° \mathfrak{Y} 56'32	
min. Earth dist.	5992 Jul 21 22:22	3° \approx 25'21	8.79485 AU				
direct	5992 Sep 30 11:25	0° \approx 03'08		conjunction	5998 Mar 27 23:36	7° \mathfrak{Y} 55'35	-1°20'41
evening set	5993 Jan 12 03:24	7° \approx 26'10		minimum elong	5998 Mar 27 23:34	7° \mathfrak{Y} 55'35	1°20'41
				max. Earth dist.	5998 Mar 27 22:42	7° \mathfrak{Y} 55'19	10.90078 AU
conjunction	5993 Jan 29 01:51	9° \approx 27'55	0°41'07	morning rise	5998 Apr 13 16:51	9° \mathfrak{Y} 54'59	
minimum elong	5993 Jan 29 01:53	9° \approx 27'56	0°41'08	retrograde	5998 Jul 25 01:42	17° \mathfrak{Y} 09'50	
max. Earth dist.	5993 Jan 28 23:36	9° \approx 27'15	10.82475 AU	opposition	5998 Oct 03 16:11	13° \mathfrak{Y} 49'18	-1°50'35
morning rise	5993 Feb 14 21:50	11° \approx 28'56		min. Earth dist.	5998 Oct 03 16:11	13° \mathfrak{Y} 49'18	8.88628 AU
	5993 Mar 19 00:29	15° \approx		direct	5998 Dec 12 13:47	10° \mathfrak{Y} 30'00	
retrograde	5993 May 26 01:46	18° \approx 38'31		evening set	5999 Mar 23 02:36	17° \mathfrak{Y} 38'41	
opposition	5993 Aug 03 10:41	15° \approx 20'08	0°35'10				
min. Earth dist.	5993 Aug 03 12:24	15° \approx 19'49	8.85106 AU	conjunction	5999 Apr 08 18:50	19° \mathfrak{Y} 38'07	-1°38'49
	5993 Aug 07 22:06	15° \mathfrak{R} \approx		minimum elong	5999 Apr 08 18:48	19° \mathfrak{Y} 38'06	1°38'51
direct	5993 Oct 13 03:54	11° \approx 58'32		max. Earth dist.	5999 Apr 08 19:26	19° \mathfrak{Y} 38'18	10.86638 AU
	5993 Dec 14 20:24	15° \approx		morning rise	5999 Apr 25 12:40	21° \mathfrak{Y} 38'05	
evening set	5994 Jan 24 04:04	19° \approx 16'31		retrograde	5999 Aug 06 14:09	28° \mathfrak{Y} 57'23	
				opposition	5999 Oct 16 04:25	25° \mathfrak{Y} 35'52	-2°10'34
conjunction	5994 Feb 10 00:46	21° \approx 17'11	0°15'45	min. Earth dist.	5999 Oct 16 03:15	25° \mathfrak{Y} 36'05	8.84468 AU
minimum elong	5994 Feb 10 00:46	21° \approx 17'11	0°15'45	direct	5999 Dec 24 18:05	22° \mathfrak{Y} 16'30	
behind sun begin	5994 Feb 09 23:04	21° \approx 16'41		evening set	6000 Apr 03 00:18	29° \mathfrak{Y} 26'40	
behind sun end	5994 Feb 10 02:28	21° \approx 17'41			6000 Apr 07 16:29	0° \mathfrak{B}	
max. Earth dist.	5994 Feb 09 22:32	21° \approx 16'31	10.87336 AU				
morning rise	5994 Feb 26 19:32	23° \approx 17'17		conjunction	6000 Apr 19 17:10	1° \mathfrak{B} 26'51	-1°52'56
	5994 May 15 19:19	0° \mathfrak{H}		minimum elong	6000 Apr 19 17:08	1° \mathfrak{B} 26'51	1°52'57
retrograde	5994 Jun 07 06:21	0° \mathfrak{H} 25'26		max. Earth dist.	6000 Apr 19 18:24	1° \mathfrak{B} 27'14	10.81738 AU
	5994 Jun 30 00:15	30° \mathfrak{R} \approx		morning rise	6000 May 06 12:19	3° \mathfrak{B} 27'47	
opposition	5994 Aug 15 22:36	27° \approx 07'05	0°03'32	retrograde	6000 Aug 18 05:30	10° \mathfrak{B} 52'17	
min. Earth dist.	5994 Aug 15 23:41	27° \approx 06'53	8.89153 AU	opposition	6000 Oct 27 18:41	7° \mathfrak{B} 29'45	-2°25'13
desc. node	5994 Sep 26 22:17	24° \approx 25'32		min. Earth dist.	6000 Oct 27 17:10	7° \mathfrak{B} 30'03	8.78926 AU
direct	5994 Oct 25 16:11	23° \approx 46'20		direct	6001 Jan 04 21:35	4° \mathfrak{B} 10'08	
	5995 Jan 27 08:34	0° \mathfrak{H}		evening set	6001 Apr 15 01:53	11° \mathfrak{B} 22'55	
evening set	5995 Feb 05 01:08	1° \mathfrak{H} 00'13					
				conjunction	6001 May 01 20:02	13° \mathfrak{B} 24'12	-2°02'18
conjunction	5995 Feb 21 20:18	3° \mathfrak{H} 00'05	-0°10'11	minimum elong	6001 May 01 20:01	13° \mathfrak{B} 24'12	2°02'20
minimum elong	5995 Feb 21 20:18	3° \mathfrak{H} 00'05	0°10'10	max. Earth dist.	6001 May 01 20:55	13° \mathfrak{B} 24'29	10.75566 AU
behind sun begin	5995 Feb 21 14:40	2° \mathfrak{H} 58'25			6001 May 15 00:44	15° \mathfrak{B}	
behind sun end	5995 Feb 22 01:56	3° \mathfrak{H} 01'45		morning rise	6001 May 18 17:19	15° \mathfrak{B} 26'27	
max. Earth dist.	5995 Feb 21 19:03	2° \mathfrak{H} 59'43	10.90556 AU	retrograde	6001 Aug 31 00:37	22° \mathfrak{B} 56'47	
morning rise	5995 Mar 10 14:02	4° \mathfrak{H} 59'34		opposition	6001 Nov 09 11:29	19° \mathfrak{B} 33'13	-2°33'44
retrograde	5995 Jun 19 09:59	12° \mathfrak{H} 07'35		min. Earth dist.	6001 Nov 09 10:18	19° \mathfrak{B} 33'26	8.72214 AU
opposition	5995 Aug 28 09:18	8° \mathfrak{H} 49'01	-0°28'00	direct	6002 Jan 17 05:27	16° \mathfrak{B} 13'08	
min. Earth dist.	5995 Aug 28 09:52	8° \mathfrak{H} 48'55	8.91539 AU	evening set	6002 Apr 27 08:12	23° \mathfrak{B} 29'32	
direct	5995 Nov 06 23:31	5° \mathfrak{H} 28'56					
evening set	5996 Feb 16 19:58	12° \mathfrak{H} 39'50		conjunction	6002 May 14 04:32	25° \mathfrak{B} 32'19	-2°06'22
				minimum elong	6002 May 14 04:32	25° \mathfrak{B} 32'19	2°06'23
conjunction	5996 Mar 04 13:46	14° \mathfrak{H} 39'07	-0°35'28	max. Earth dist.	6002 May 14 05:39	25° \mathfrak{B} 32'39	10.68368 AU
minimum elong	5996 Mar 04 13:44	14° \mathfrak{H} 39'07	0°35'27	morning rise	6002 May 31 04:36	27° \mathfrak{B} 36'13	
max. Earth dist.	5996 Mar 04 12:40	14° \mathfrak{H} 38'48	10.92089 AU		6002 Jun 21 00:12	0° \mathfrak{I}	
morning rise	5996 Mar 21 06:54	16° \mathfrak{H} 38'16		retrograde	6002 Sep 13 01:34	5° \mathfrak{I} 12'46	
retrograde	5996 Jun 30 14:02	23° \mathfrak{H} 47'25		opposition	6002 Nov 22 07:34	1° \mathfrak{I} 48'10	-2°35'27

min. Earth dist.	6002 Nov 22 06:12	1° Π 48'26	8.64610 AU	min. Earth dist.	6009 Feb 08 08:27	20° Ω 02'21	8.21184 AU
	6002 Dec 17 01:00	30° \mathbb{R} 8		direct	6009 Apr 16 08:52	16° Ω 36'02	
direct	6003 Jan 29 16:09	28° \mathbb{B} 27'30		evening set	6009 Jul 28 06:31	24° Ω 31'14	
	6003 Mar 13 02:00	0° Π					
evening set	6003 May 09 20:08	5° Π 48'19		conjunction	6009 Aug 15 05:39	26° Ω 48'10	-0°03'54
				minimum elong	6009 Aug 15 05:39	26° Ω 48'10	0°03'55
conjunction	6003 May 26 19:38	7° Π 52'56	-2°04'42	behind sun begin	6009 Aug 14 22:25	26° Ω 45'52	
minimum elong	6003 May 26 19:39	7° Π 52'57	2°04'43	behind sun end	6009 Aug 15 12:52	26° Ω 50'27	
max. Earth dist.	6003 May 26 21:49	7° Π 53'37	10.60443 AU	max. Earth dist.	6009 Aug 15 08:16	26° Ω 48'57	10.19366 AU
morning rise	6003 Jun 12 23:04	9° Π 58'48		morning rise	6009 Sep 02 06:41	29° Ω 05'42	
retrograde	6003 Sep 26 07:34	17° Π 41'43			6009 Sep 09 14:03	0° \mathbb{N}	
opposition	6003 Dec 05 07:06	14° Π 16'07	-2°29'57	asc. node	6009 Oct 02 15:07	2° \mathbb{N} 40'07	
min. Earth dist.	6003 Dec 05 05:00	14° Π 16'31	8.56435 AU	retrograde	6009 Dec 16 15:20	7° \mathbb{N} 11'54	
direct	6004 Feb 11 06:38	10° Π 54'44		opposition	6010 Feb 22 04:49	3° \mathbb{N} 44'01	0°14'04
evening set	6004 May 21 14:58	18° Π 20'43		min. Earth dist.	6010 Feb 22 02:42	3° \mathbb{N} 44'27	8.18000 AU
				direct	6010 Apr 30 04:16	0° \mathbb{N} 17'16	
conjunction	6004 Jun 07 18:19	20° Π 27'27	-1°57'05	evening set	6010 Aug 11 19:33	8° \mathbb{N} 16'57	
minimum elong	6004 Jun 07 18:21	20° Π 27'28	1°57'06				
max. Earth dist.	6004 Jun 07 21:19	20° Π 28'23	10.52140 AU	conjunction	6010 Aug 29 20:21	10° \mathbb{N} 34'41	0°26'09
morning rise	6004 Jun 25 01:40	22° Π 35'29		minimum elong	6010 Aug 29 20:20	10° \mathbb{N} 34'41	0°26'07
	6004 Sep 16 20:54	0° \mathbb{S}		max. Earth dist.	6010 Aug 29 22:42	10° \mathbb{N} 35'26	10.17103 AU
retrograde	6004 Oct 08 19:13	0° \mathbb{S} 24'32		morning rise	6010 Sep 16 21:54	12° \mathbb{N} 52'42	
	6004 Oct 30 20:22	30° \mathbb{R} II		retrograde	6010 Dec 30 19:15	20° \mathbb{N} 58'08	
opposition	6004 Dec 17 10:09	26° Π 58'03	-2°17'05	opposition	6011 Mar 08 00:22	17° \mathbb{N} 30'36	0°50'41
min. Earth dist.	6004 Dec 17 07:27	26° Π 58'35	8.48068 AU	min. Earth dist.	6011 Mar 07 22:42	17° \mathbb{N} 30'56	8.16700 AU
direct	6005 Feb 23 01:37	23° Π 35'51		direct	6011 May 14 03:10	14° \mathbb{N} 03'07	
	6005 May 25 09:17	0° \mathbb{S}		evening set	6011 Aug 26 11:43	22° \mathbb{N} 06'10	
evening set	6005 Jun 03 17:15	1° \mathbb{S} 07'32					
				conjunction	6011 Sep 13 12:47	24° \mathbb{N} 24'02	0°54'41
conjunction	6005 Jun 21 00:49	3° \mathbb{S} 16'35	-1°43'35	minimum elong	6011 Sep 13 12:45	24° \mathbb{N} 24'01	0°54'40
minimum elong	6005 Jun 21 00:52	3° \mathbb{S} 16'36	1°43'36	max. Earth dist.	6011 Sep 13 13:57	24° \mathbb{N} 24'24	10.16722 AU
max. Earth dist.	6005 Jun 21 03:47	3° \mathbb{S} 17'30	10.43862 AU	morning rise	6011 Oct 01 13:32	26° \mathbb{N} 41'51	
morning rise	6005 Jul 08 12:30	5° \mathbb{S} 26'56			6011 Oct 29 08:18	0° \mathbb{S}	
retrograde	6005 Oct 22 12:44	13° \mathbb{S} 21'34		retrograde	6012 Jan 13 20:33	4° \mathbb{S} 45'00	
opposition	6005 Dec 30 17:11	9° \mathbb{S} 54'23	-1°57'04	opposition	6012 Mar 20 20:13	1° \mathbb{S} 18'04	1°24'25
min. Earth dist.	6005 Dec 30 14:28	9° \mathbb{S} 54'55	8.39931 AU	min. Earth dist.	6012 Mar 20 19:41	1° \mathbb{S} 18'10	8.17262 AU
direct	6006 Mar 08 00:28	6° \mathbb{S} 31'16			6012 Apr 06 04:31	30° \mathbb{R} II	
evening set	6006 Jun 17 03:11	14° \mathbb{S} 08'59		direct	6012 May 27 05:31	27° \mathbb{N} 50'03	
					6012 Jul 16 08:01	0° \mathbb{S}	
conjunction	6006 Jul 04 15:10	16° \mathbb{S} 20'21	-1°24'34	evening set	6012 Sep 09 04:40	5° \mathbb{S} 55'07	
minimum elong	6006 Jul 04 15:13	16° \mathbb{S} 20'22	1°24'36				
max. Earth dist.	6006 Jul 04 17:38	16° \mathbb{S} 21'08	10.36043 AU	conjunction	6012 Sep 27 04:39	8° \mathbb{S} 12'29	1°20'02
morning rise	6006 Jul 22 07:16	18° \mathbb{S} 33'01		minimum elong	6012 Sep 27 04:36	8° \mathbb{S} 12'28	1°20'02
retrograde	6006 Nov 05 10:18	26° \mathbb{S} 32'25		max. Earth dist.	6012 Sep 27 04:07	8° \mathbb{S} 12'19	10.18138 AU
opposition	6007 Jan 13 03:54	23° \mathbb{S} 04'44	-1°30'33	morning rise	6012 Oct 15 03:21	10° \mathbb{S} 29'29	
min. Earth dist.	6007 Jan 13 01:42	23° \mathbb{S} 05'11	8.32467 AU	retrograde	6013 Jan 26 18:33	18° \mathbb{S} 29'13	
direct	6007 Mar 21 05:07	19° \mathbb{S} 40'38		opposition	6013 Apr 03 15:24	15° \mathbb{S} 03'04	1°53'10
evening set	6007 Jun 30 21:09	27° \mathbb{S} 24'31		min. Earth dist.	6013 Apr 03 16:13	15° \mathbb{S} 02'54	8.19578 AU
				direct	6013 Jun 10 08:32	11° \mathbb{S} 34'47	
conjunction	6007 Jul 18 13:30	29° \mathbb{S} 38'06	-1°00'47	evening set	6013 Sep 23 20:13	19° \mathbb{S} 40'26	
minimum elong	6007 Jul 18 13:32	29° \mathbb{S} 38'07	1°00'49				
max. Earth dist.	6007 Jul 18 15:44	29° \mathbb{S} 38'49	10.29107 AU	conjunction	6013 Oct 11 18:08	21° \mathbb{S} 56'47	1°40'43
	6007 Jul 21 10:34	0° Ω		minimum elong	6013 Oct 11 18:05	21° \mathbb{S} 56'46	1°40'43
morning rise	6007 Aug 05 09:36	1° Ω 52'51		max. Earth dist.	6013 Oct 11 16:03	21° \mathbb{S} 56'07	10.21270 AU
retrograde	6007 Nov 19 09:23	9° Ω 55'53		morning rise	6013 Oct 29 13:57	24° \mathbb{S} 12'29	
opposition	6008 Jan 26 17:43	6° Ω 27'56	-0°58'42		6013 Dec 22 07:09	0° \mathbb{N}	
min. Earth dist.	6008 Jan 26 15:53	6° Ω 28'18	8.26098 AU	retrograde	6014 Feb 09 13:11	2° \mathbb{N} 07'43	
direct	6008 Apr 02 17:05	3° Ω 02'52			6014 Apr 01 00:26	30° \mathbb{R} II	
evening set	6008 Jul 13 22:36	10° Ω 52'43		opposition	6014 Apr 17 09:13	28° \mathbb{S} 42'29	2°15'16
				min. Earth dist.	6014 Apr 17 10:47	28° \mathbb{S} 42'10	8.23576 AU
conjunction	6008 Jul 31 18:50	13° Ω 08'13	-0°33'24	direct	6014 Jun 24 11:37	25° \mathbb{S} 14'11	
minimum elong	6008 Jul 31 18:52	13° Ω 08'13	0°33'25		6014 Sep 10 05:04	0° \mathbb{N}	
max. Earth dist.	6008 Jul 31 21:07	13° Ω 08'56	10.23443 AU	evening set	6014 Oct 08 08:12	3° \mathbb{N} 18'45	
	6008 Aug 15 11:18	15° Ω					
morning rise	6008 Aug 18 18:02	15° Ω 24'38		conjunction	6014 Oct 26 03:24	5° \mathbb{N} 33'40	1°55'35
retrograde	6008 Dec 02 11:21	23° Ω 30'00		minimum elong	6014 Oct 26 03:22	5° \mathbb{N} 33'39	1°55'36
opposition	6009 Feb 08 10:17	20° Ω 01'58	-0°23'09	max. Earth dist.	6014 Oct 26 00:38	5° \mathbb{N} 32'47	10.26037 AU

morning rise	6014 Nov 12 19:46	7°♈47'41		retrograde	6021 May 09 02:19	1°♏56'41	
	6015 Jan 27 23:49	15°♈			6021 Jun 28 05:12	30°♈♂	
retrograde	6015 Feb 23 03:07	15°♈37'27		opposition	6021 Jul 16 21:44	28°♂37'18	1°17'49
	6015 Mar 21 11:27	15°♈♈		min. Earth dist.	6021 Jul 16 22:26	28°♂37'10	8.75438 AU
opposition	6015 May 01 00:53	12°♈13'13	2°29'36	direct	6021 Sep 25 12:51	25°♂13'50	
min. Earth dist.	6015 May 01 02:26	12°♈12'54	8.29108 AU		6021 Dec 14 20:11	0°♏	
direct	6015 Jul 08 13:57	8°♈45'08		evening set	6022 Jan 07 09:19	2°♏39'31	
evening set	6015 Oct 07 20:47	15°♈					
	6015 Oct 22 14:42	16°♈46'54		conjunction	6022 Jan 24 08:55	4°♏41'56	0°51'24
conjunction	6015 Nov 09 06:49	19°♈00'03	2°03'56	minimum elong	6022 Jan 24 08:57	4°♏41'56	0°51'25
	6015 Nov 09 06:48	19°♈00'03	2°03'58	max. Earth dist.	6022 Jan 24 08:04	4°♏41'40	10.78739 AU
minimum elong	6015 Nov 09 04:12	18°♈59'13	10.32231 AU	morning rise	6022 Feb 10 05:29	6°♏43'30	
max. Earth dist.	6015 Nov 26 19:22	21°♈12'08		retrograde	6022 May 21 07:57	13°♏54'16	
morning rise	6016 Mar 07 11:26	28°♈55'44		opposition	6022 Jul 29 12:32	10°♏35'16	0°48'13
retrograde	6016 Mar 07 11:26	28°♈55'44		min. Earth dist.	6022 Jul 29 12:57	10°♏35'11	8.81775 AU
opposition	6016 May 13 13:38	25°♈32'30	2°35'37	direct	6022 Oct 08 06:09	7°♏12'47	
min. Earth dist.	6016 May 13 14:57	25°♈32'14	8.35906 AU	evening set	6023 Jan 19 11:52	14°♏32'53	
direct	6016 Jul 21 13:46	22°♈04'51			6023 Jan 23 07:34	15°♏	
evening set	6016 Nov 04 14:04	0°♏02'16					
	6016 Nov 04 06:41	0°♏♂		conjunction	6023 Feb 05 09:28	16°♏34'04	0°26'33
				minimum elong	6023 Feb 05 09:29	16°♏34'04	0°26'34
conjunction	6016 Nov 22 02:59	2°♏13'30	2°05'35	max. Earth dist.	6023 Feb 05 08:50	16°♏33'53	10.84500 AU
minimum elong	6016 Nov 22 02:59	2°♏13'30	2°05'37	morning rise	6023 Feb 22 04:39	18°♏34'34	
max. Earth dist.	6016 Nov 22 00:50	2°♏12'50	10.39540 AU	retrograde	6023 Jun 02 12:30	25°♏43'06	
morning rise	6016 Dec 09 11:50	4°♏23'32		opposition	6023 Aug 11 01:06	22°♏24'19	0°16'57
retrograde	6017 Mar 20 15:45	12°♏00'37		min. Earth dist.	6023 Aug 11 01:39	22°♏24'13	8.86877 AU
opposition	6017 May 26 23:00	8°♏38'22	2°33'23	direct	6023 Oct 20 18:21	19°♏02'48	
min. Earth dist.	6017 May 27 00:18	8°♏38'06	8.43619 AU	evening set	6024 Jan 31 09:57	26°♏18'10	
direct	6017 Aug 04 08:32	5°♏11'20					
evening set	6017 Nov 18 05:14	13°♏03'08		conjunction	6024 Feb 17 05:42	28°♏18'21	0°00'49
conjunction	6017 Dec 05 15:01	15°♏12'25	2°00'45	minimum elong	6024 Feb 17 05:41	28°♏18'21	0°00'50
	6017 Dec 05 15:03	15°♏12'25	2°00'47	behind sun begin	6024 Feb 16 22:41	28°♏16'16	
minimum elong	6017 Dec 05 13:09	15°♏11'50	10.47574 AU	behind sun end	6024 Feb 17 12:42	28°♏20'25	
max. Earth dist.	6017 Dec 22 20:35	17°♏20'27		max. Earth dist.	6024 Feb 17 04:48	28°♏18'08	10.88906 AU
morning rise	6017 Dec 22 20:35	17°♏20'27		desc. node	6024 Feb 28 17:09	29°♏40'38	
retrograde	6018 Apr 02 14:11	24°♏50'58			6024 Mar 02 10:33	0°♏♂	
opposition	6018 Jun 09 04:33	21°♏29'37	2°23'27	morning rise	6024 Mar 04 23:55	0°♏18'04	
min. Earth dist.	6018 Jun 09 06:27	21°♏29'15	8.51833 AU	retrograde	6024 Jun 13 13:38	7°♏25'41	
direct	6018 Aug 17 22:53	18°♏03'20		opposition	6024 Aug 22 11:50	4°♏06'54	-0°14'43
evening set	6018 Dec 01 12:07	25°♏48'47		min. Earth dist.	6024 Aug 22 12:17	4°♏06'49	8.90543 AU
				direct	6024 Nov 01 03:29	0°♏46'15	
				evening set	6025 Feb 11 05:02	7°♏57'57	
conjunction	6018 Dec 18 18:53	27°♏56'07	1°50'01				
minimum elong	6018 Dec 18 18:55	27°♏56'08	1°50'03				
max. Earth dist.	6018 Dec 18 16:26	27°♏55'22	10.55904 AU	conjunction	6025 Feb 27 23:18	9°♏57'22	-0°24'50
morning rise	6019 Jan 04 21:38	0°♂02'16		minimum elong	6025 Feb 27 23:17	9°♏57'22	0°24'49
retrograde	6019 Jan 04 14:08	0°♂		max. Earth dist.	6025 Feb 27 22:48	9°♏57'13	10.91783 AU
	6019 Apr 15 05:47	7°♂26'33		morning rise	6025 Mar 16 16:49	11°♏56'34	
opposition	6019 Jun 22 06:02	4°♂06'02	2°06'44	retrograde	6025 Jun 25 16:27	19°♏04'33	
min. Earth dist.	6019 Jun 22 08:14	4°♂05'37	8.60129 AU	opposition	6025 Sep 03 21:12	15°♏45'35	-0°45'35
direct	6019 Aug 31 09:14	0°♂40'36		min. Earth dist.	6025 Sep 03 20:41	15°♏45'41	8.92622 AU
evening set	6019 Dec 14 10:39	8°♂19'20		direct	6025 Nov 13 10:48	12°♏25'39	
				evening set	6026 Feb 22 22:23	19°♏34'48	
conjunction	6019 Dec 31 14:40	10°♂24'51	1°34'13				
minimum elong	6019 Dec 31 14:43	10°♂24'51	1°34'15	conjunction	6026 Mar 11 15:35	21°♏33'47	-0°49'19
max. Earth dist.	6019 Dec 31 11:59	10°♂24'01	10.64124 AU	minimum elong	6026 Mar 11 15:33	21°♏33'46	0°49'18
morning rise	6020 Jan 17 15:04	12°♂29'15		max. Earth dist.	6026 Mar 11 16:22	21°♏34'01	10.93012 AU
retrograde	6020 Apr 26 17:48	19°♂48'03		morning rise	6026 Mar 28 08:32	23°♏32'43	
opposition	6020 Jul 04 03:43	16°♂28'11	1°44'26		6026 Jun 08 12:58	0°♀	
min. Earth dist.	6020 Jul 04 05:25	16°♂27'51	8.68119 AU	retrograde	6026 Jul 07 21:51	0°♀42'18	
direct	6020 Sep 12 14:24	13°♂03'42			6026 Aug 06 16:50	30°♏♂	
evening set	6020 Dec 26 01:16	20°♂35'41		opposition	6026 Sep 16 06:24	27°♏22'58	-1°14'30
				min. Earth dist.	6026 Sep 16 05:01	27°♏23'14	8.93030 AU
				direct	6026 Nov 25 14:00	24°♏03'39	
conjunction	6021 Jan 12 02:57	22°♂39'34	1°14'19		6027 Feb 24 06:55	0°♀	
minimum elong	6021 Jan 12 02:59	22°♂39'34	1°14'21				
max. Earth dist.	6021 Jan 12 00:55	22°♂38'57	10.71851 AU	evening set	6027 Mar 06 15:17	1°♀11'21	
morning rise	6021 Jan 29 01:19	24°♂42'26					
	6021 Mar 21 19:48	0°♏		conjunction	6027 Mar 23 07:38	3°♀10'10	-1°11'46

minimum elong	6027 Mar 23 07:36	3° Υ 10'09	1°11'46	conjunction	6033 Jun 02 06:59	15° Π 02'52	-2°01'03
max. Earth dist.	6027 Mar 23 09:03	3° Υ 10'35	10.92552 AU	minimum elong	6033 Jun 02 07:01	15° Π 02'52	2°01'04
morning rise	6027 Apr 09 00:29	5° Υ 09'10		max. Earth dist.	6033 Jun 02 07:55	15° Π 03'09	10.59343 AU
retrograde	6027 Jul 20 03:16	12° Υ 21'32		morning rise	6033 Jun 19 12:22	17° Π 09'24	
opposition	6027 Sep 28 16:08	9° Υ 01'40	-1°40'24	retrograde	6033 Oct 03 01:10	24° Π 53'57	
min. Earth dist.	6027 Sep 28 14:34	9° Υ 01'57	8.91764 AU	opposition	6033 Dec 11 20:38	21° Π 28'37	-2°23'28
direct	6027 Dec 07 16:18	5° Υ 42'44		min. Earth dist.	6033 Dec 11 19:41	21° Π 28'48	8.55115 AU
evening set	6028 Mar 17 09:05	12° Υ 50'11		direct	6034 Feb 17 16:02	18° Π 07'26	
				evening set	6034 May 29 03:28	25° Π 34'53	
conjunction	6028 Apr 03 01:00	14° Υ 49'08	-1°31'20				
minimum elong	6028 Apr 03 00:58	14° Υ 49'08	1°31'20	conjunction	6034 Jun 15 08:44	27° Π 42'24	-1°50'14
max. Earth dist.	6028 Apr 03 02:01	14° Υ 49'27	10.90439 AU	minimum elong	6034 Jun 15 08:46	27° Π 42'25	1°50'16
morning rise	6028 Apr 19 18:26	16° Υ 48'33		max. Earth dist.	6034 Jun 15 09:47	27° Π 42'44	10.50655 AU
retrograde	6028 Jul 31 12:19	24° Υ 04'41		morning rise	6034 Jul 02 18:17	29° Π 51'14	
opposition	6028 Oct 10 02:49	20° Υ 44'08	-2°02'18		6034 Jul 03 23:09	0° Θ	
min. Earth dist.	6028 Oct 10 01:37	20° Υ 44'22	8.88882 AU	retrograde	6034 Oct 16 14:23	7° Θ 41'46	
direct	6028 Dec 18 19:24	17° Υ 25'22		opposition	6034 Dec 25 00:50	4° Θ 15'30	-2°06'45
evening set	6029 Mar 29 04:51	24° Υ 33'41		min. Earth dist.	6034 Dec 24 23:52	4° Θ 15'41	8.46400 AU
				direct	6035 Mar 02 12:48	0° Θ 53'17	
conjunction	6029 Apr 14 21:05	26° Υ 33'10	-1°47'11	evening set	6035 Jun 11 08:37	8° Θ 26'42	
minimum elong	6029 Apr 14 21:04	26° Υ 33'10	1°47'13				
max. Earth dist.	6029 Apr 14 22:23	26° Υ 33'34	10.86754 AU	conjunction	6035 Jun 28 18:28	10° Θ 36'36	-1°33'46
morning rise	6029 May 01 15:35	28° Υ 33'19		minimum elong	6035 Jun 28 18:30	10° Θ 36'37	1°33'47
	6029 May 14 04:31	0° \mathcal{B}		max. Earth dist.	6035 Jun 28 20:15	10° Θ 37'10	10.42091 AU
retrograde	6029 Aug 13 00:08	5° \mathcal{B} 54'08		morning rise	6035 Jul 16 08:19	12° Θ 47'48	
opposition	6029 Oct 22 15:13	2° \mathcal{B} 32'45	-2°19'15	retrograde	6035 Oct 30 08:24	20° Θ 43'40	
min. Earth dist.	6029 Oct 22 13:38	2° \mathcal{B} 33'03	8.84475 AU	opposition	6036 Jan 07 08:41	17° Θ 16'34	-1°43'15
	6029 Nov 30 06:28	30° $\mathcal{R}\Upsilon$		min. Earth dist.	6036 Jan 07 07:12	17° Θ 16'51	8.38041 AU
direct	6029 Dec 30 22:45	29° Υ 13'57		direct	6036 Mar 14 14:28	13° Θ 53'13	
	6030 Jan 30 02:36	0° \mathcal{B}		evening set	6036 Jun 23 21:50	21° Θ 32'53	
evening set	6030 Apr 10 03:40	6° \mathcal{B} 24'12					
conjunction	6030 Apr 26 21:00	8° \mathcal{B} 24'34	-1°58'38	conjunction	6036 Jul 11 12:10	23° Θ 45'08	-1°12'10
minimum elong	6030 Apr 26 20:59	8° \mathcal{B} 24'34	1°58'41	minimum elong	6036 Jul 11 12:13	23° Θ 45'09	1°12'11
max. Earth dist.	6030 Apr 26 23:18	8° \mathcal{B} 25'16	10.81611 AU	max. Earth dist.	6036 Jul 11 13:55	23° Θ 45'41	10.34112 AU
morning rise	6030 May 13 17:02	10° \mathcal{B} 25'47		morning rise	6036 Jul 29 06:09	25° Θ 58'34	
	6030 Jun 25 21:17	15° \mathcal{B}			6036 Sep 02 10:34	0° \mathcal{Q}	
retrograde	6030 Aug 25 16:45	17° \mathcal{B} 52'01		retrograde	6036 Nov 12 06:08	3° \mathcal{Q} 58'48	
	6030 Oct 28 13:05	15° $\mathcal{R}\mathcal{B}$		opposition	6037 Jan 19 19:54	0° \mathcal{Q} 31'05	-1°13'52
opposition	6030 Nov 04 05:55	14° \mathcal{B} 29'40	-2°30'27	min. Earth dist.	6037 Jan 19 18:25	0° \mathcal{Q} 31'23	8.30495 AU
min. Earth dist.	6030 Nov 04 03:36	14° \mathcal{B} 30'06	8.78684 AU		6037 Jan 26 07:23	30° $\mathcal{R}\Theta$	
direct	6031 Jan 12 05:28	11° \mathcal{B} 10'36		direct	6037 Mar 27 21:24	27° Θ 06'34	
	6031 Mar 22 16:14	15° \mathcal{B}			6037 May 24 23:11	0° \mathcal{Q}	
evening set	6031 Apr 22 06:49	18° \mathcal{B} 23'47		evening set	6037 Jul 07 18:45	4° \mathcal{Q} 52'28	
conjunction	6031 May 09 02:00	20° \mathcal{B} 25'26	-2°05'04	conjunction	6037 Jul 25 13:09	7° \mathcal{Q} 06'52	-0°46'24
minimum elong	6031 May 09 01:59	20° \mathcal{B} 25'25	2°05'06	minimum elong	6037 Jul 25 13:11	7° \mathcal{Q} 06'53	0°46'26
max. Earth dist.	6031 May 09 04:44	20° \mathcal{B} 26'15	10.75183 AU	max. Earth dist.	6037 Jul 25 14:19	7° \mathcal{Q} 07'14	10.27160 AU
morning rise	6031 May 26 00:21	22° \mathcal{B} 28'04		morning rise	6037 Aug 12 10:42	9° \mathcal{Q} 22'16	
	6031 Sep 05 18:38	0° Π			6037 Oct 03 10:09	15° \mathcal{Q}	
retrograde	6031 Sep 07 15:34	0° Π 00'11		retrograde	6037 Nov 26 07:20	17° \mathcal{Q} 25'42	
	6031 Sep 09 12:28	30° $\mathcal{R}\mathcal{B}$			6038 Jan 20 09:00	15° $\mathcal{R}\mathcal{Q}$	
opposition	6031 Nov 16 23:26	26° \mathcal{B} 36'49	-2°35'11	opposition	6038 Feb 02 10:22	13° \mathcal{Q} 57'35	-0°39'59
min. Earth dist.	6031 Nov 16 20:59	26° \mathcal{B} 37'17	8.71689 AU	min. Earth dist.	6038 Feb 02 09:20	13° \mathcal{Q} 57'48	8.24188 AU
direct	6032 Jan 24 12:38	23° \mathcal{B} 17'16		direct	6038 Apr 10 08:51	10° \mathcal{Q} 31'55	
	6032 Apr 28 19:44	0° Π			6038 Jun 23 02:11	15° \mathcal{Q}	
evening set	6032 May 03 15:14	0° Π 34'19		evening set	6038 Jul 21 22:36	18° \mathcal{Q} 23'44	
conjunction	6032 May 20 12:59	2° Π 37'36	-2°05'58	conjunction	6038 Aug 08 20:19	20° \mathcal{Q} 39'52	-0°17'47
minimum elong	6032 May 20 12:59	2° Π 37'36	2°06'00	minimum elong	6038 Aug 08 20:20	20° \mathcal{Q} 39'52	0°17'48
max. Earth dist.	6032 May 20 14:44	2° Π 38'08	10.67667 AU	max. Earth dist.	6038 Aug 08 20:38	20° \mathcal{Q} 39'58	10.21623 AU
morning rise	6032 Jun 06 14:33	4° Π 42'04		morning rise	6038 Aug 26 20:34	22° \mathcal{Q} 56'47	
retrograde	6032 Sep 19 18:29	12° Π 20'20			6038 Nov 06 02:39	0° \mathcal{M}	
opposition	6032 Nov 28 20:15	8° Π 55'58	-2°32'57	retrograde	6038 Dec 10 09:56	1° \mathcal{M} 02'04	
min. Earth dist.	6032 Nov 28 18:39	8° Π 56'17	8.63708 AU		6039 Jan 13 20:18	30° $\mathcal{R}\mathcal{Q}$	
direct	6033 Feb 04 23:09	5° Π 35'42		opposition	6039 Feb 16 03:19	27° \mathcal{Q} 33'49	-0°03'24
evening set	6033 May 16 05:52	12° Π 57'36		min. Earth dist.	6039 Feb 16 03:04	27° \mathcal{Q} 33'52	8.19472 AU
				asc. node	6039 Mar 22 17:48	25° \mathcal{Q} 03'13	

direct	6039 Apr 24 02:12	24°Ω07'04	evening set	6045 Oct 29 09:39	24°ℳ03'49	
	6039 Jul 19 08:18	0°ℳ				
evening set	6039 Aug 05 08:36	2°ℳ04'13	conjunction	6045 Nov 16 00:04	26°ℳ16'05	2°05'35
			minimum elong	6045 Nov 16 00:03	26°ℳ16'05	2°05'37
conjunction	6039 Aug 23 08:37	4°ℳ21'33 0°12'11	max. Earth dist.	6045 Nov 15 21:54	26°ℳ15'24	10.35115 AU
minimum elong	6039 Aug 23 08:36	4°ℳ21'32 0°12'09	morning rise	6045 Dec 03 10:49	28°ℳ27'13	
behind sun begin	6039 Aug 23 03:46	4°ℳ20'01		6045 Dec 16 05:44	0°♂	
behind sun end	6039 Aug 23 13:26	4°ℳ23'04	retrograde	6046 Mar 14 20:37	6°♂07'43	
max. Earth dist.	6039 Aug 23 08:11	4°ℳ21'25 10.17800 AU	opposition	6046 May 21 01:18	2°♂44'48	2°35'23
morning rise	6039 Sep 10 10:13	6°ℳ39'22	min. Earth dist.	6046 May 21 02:46	2°♂44'30	8.39176 AU
retrograde	6039 Dec 24 12:12	14°ℳ44'58		6046 Jun 30 04:54	30°ℳ	
opposition	6040 Feb 29 21:49	11°ℳ16'52 0°33'42	direct	6046 Jul 29 05:45	29°ℳ17'16	
min. Earth dist.	6040 Feb 29 22:02	11°ℳ16'49 8.16608 AU		6046 Aug 27 03:19	0°♂	
direct	6040 May 07 00:16	7°ℳ49'13	evening set	6046 Nov 12 05:01	7°♂12'13	
evening set	6040 Aug 18 22:53	15°ℳ50'42				
			conjunction	6046 Nov 29 16:14	9°♂22'30	2°03'44
conjunction	6040 Sep 05 23:55	18°ℳ08'36 0°41'32	minimum elong	6046 Nov 29 16:15	9°♂22'31	2°03'47
minimum elong	6040 Sep 05 23:53	18°ℳ08'35 0°41'31	max. Earth dist.	6046 Nov 29 13:59	9°♂21'48	10.43155 AU
max. Earth dist.	6040 Sep 05 23:20	18°ℳ08'24 10.15906 AU	morning rise	6046 Dec 16 23:35	11°♂31'36	
morning rise	6040 Sep 24 01:23	20°ℳ26'38	retrograde	6047 Mar 27 21:17	19°♂05'31	
retrograde	6041 Jan 06 13:18	28°ℳ31'06	opposition	6047 Jun 03 08:47	15°♂43'44	2°28'57
opposition	6041 Mar 14 17:18	25°ℳ03'22 1°09'01	min. Earth dist.	6047 Jun 03 09:43	15°♂43'33	8.47510 AU
min. Earth dist.	6041 Mar 14 17:26	25°ℳ03'21 8.15753 AU	direct	6047 Aug 11 23:17	12°♂17'06	
direct	6041 May 21 01:15	21°ℳ35'04	evening set	6047 Nov 25 16:07	20°♂06'01	
evening set	6041 Sep 02 15:11	29°ℳ39'30				
	6041 Sep 05 08:19	0°♂	conjunction	6047 Dec 13 00:20	22°♂14'20	1°55'40
			minimum elong	6047 Dec 13 00:22	22°♂14'21	1°55'42
conjunction	6041 Sep 20 15:56	1°♂57'18 1°08'34	max. Earth dist.	6047 Dec 12 22:53	22°♂13'53	10.51711 AU
minimum elong	6041 Sep 20 15:53	1°♂57'17 1°08'33	morning rise	6047 Dec 30 04:29	24°♂21'27	
max. Earth dist.	6041 Sep 20 15:27	1°♂57'08 10.16048 AU		6048 Feb 22 19:13	0°♂	
morning rise	6041 Oct 08 15:53	4°♂14'52	retrograde	6048 Apr 08 16:53	1°♂49'00	
retrograde	6042 Jan 20 13:23	12°♂16'46		6048 May 26 02:12	30°ℳ♂	
opposition	6042 Mar 28 12:47	8°♂49'38 1°40'21	opposition	6048 Jun 15 12:32	28°♂28'14	2°15'15
min. Earth dist.	6042 Mar 28 12:45	8°♂49'39 8.16952 AU	min. Earth dist.	6048 Jun 15 13:02	28°♂28'08	8.56134 AU
direct	6042 Jun 04 02:43	5°♂20'55	direct	6048 Aug 24 11:58	25°♂02'39	
evening set	6042 Sep 17 07:34	13°♂26'46		6048 Nov 13 21:36	0°♂	
			evening set	6048 Dec 07 18:57	2°♂44'55	
conjunction	6042 Oct 05 06:50	15°♂43'51 1°31'37				
minimum elong	6042 Oct 05 06:47	15°♂43'50 1°31'37	conjunction	6048 Dec 25 00:26	4°♂51'21	1°42'06
max. Earth dist.	6042 Oct 05 06:20	15°♂43'41 10.18218 AU	minimum elong	6048 Dec 25 00:28	4°♂51'21	1°42'08
morning rise	6042 Oct 23 04:10	18°♂00'22	max. Earth dist.	6048 Dec 24 23:41	4°♂51'07	10.60356 AU
retrograde	6043 Feb 03 10:59	25°♂58'17	morning rise	6049 Jan 11 01:50	6°♂56'36	
opposition	6043 Apr 11 07:12	22°♂32'00 2°05'47	retrograde	6049 Apr 21 09:01	14°♂18'15	
min. Earth dist.	6043 Apr 11 07:22	22°♂31'58 8.20127 AU	opposition	6049 Jun 28 12:24	10°♂58'24	1°55'22
direct	6043 Jun 18 05:08	19°♂03'08	min. Earth dist.	6049 Jun 28 13:08	10°♂58'16	8.64636 AU
evening set	6043 Oct 01 21:33	27°♂08'44	direct	6049 Sep 06 18:18	7°♂33'52	
			evening set	6049 Dec 20 13:53	15°♂09'19	
conjunction	6043 Oct 19 18:22	29°♂24'33 1°49'20				
minimum elong	6043 Oct 19 18:19	29°♂24'32 1°49'20	conjunction	6050 Jan 06 16:47	17°♂14'00	1°23'58
max. Earth dist.	6043 Oct 19 17:31	29°♂24'16 10.22287 AU	minimum elong	6050 Jan 06 16:49	17°♂14'00	1°24'00
	6043 Oct 24 09:31	0°ℳ	max. Earth dist.	6050 Jan 06 15:50	17°♂13'42	10.68668 AU
morning rise	6043 Nov 06 12:21	1°ℳ39'32	morning rise	6050 Jan 23 16:00	19°♂17'36	
retrograde	6044 Feb 17 03:36	9°ℳ32'22	retrograde	6050 May 03 19:17	26°♂34'06	
opposition	6044 Apr 24 00:04	6°ℳ07'06 2°23'52	opposition	6050 Jul 11 08:38	23°♂14'58	1°30'34
min. Earth dist.	6044 Apr 24 00:54	6°ℳ06'56 8.25092 AU	min. Earth dist.	6050 Jul 11 09:51	23°♂14'44	8.72601 AU
direct	6044 Jul 01 07:35	2°ℳ38'26	direct	6050 Sep 19 19:29	19°♂51'29	
evening set	6044 Oct 15 06:46	10°ℳ42'00	evening set	6051 Jan 02 01:40	27°♂20'20	
conjunction	6044 Nov 02 00:27	12°ℳ56'08 2°00'48	conjunction	6051 Jan 19 02:08	29°♂23'25	1°02'18
minimum elong	6044 Nov 02 00:26	12°ℳ56'08 2°00'49	minimum elong	6051 Jan 19 02:10	29°♂23'26	1°02'19
max. Earth dist.	6044 Nov 01 22:52	12°ℳ55'38 10.28026 AU	max. Earth dist.	6051 Jan 19 00:31	29°♂22'56	10.76238 AU
	6044 Nov 18 08:59	15°ℳ		6051 Jan 24 02:44	0°♂	
morning rise	6044 Nov 19 14:49	15°ℳ09'17	morning rise	6051 Feb 04 23:35	1°♂25'35	
retrograde	6045 Mar 01 14:24	22°ℳ56'13	retrograde	6051 May 16 01:14	8°♂37'59	
opposition	6045 May 07 14:20	19°ℳ32'07 2°33'49	opposition	6051 Jul 24 01:28	5°♂19'20	1°02'10
min. Earth dist.	6045 May 07 15:42	19°ℳ31'50 8.31563 AU	min. Earth dist.	6051 Jul 24 02:38	5°♂19'07	8.79634 AU
direct	6045 Jul 15 08:37	16°ℳ03'53	direct	6051 Oct 02 17:14	1°♂56'51	

evening set	6052 Jan 14 07:09	9° \approx 19'40	morning rise	6057 Apr 14 19:44	11° Υ 46'08
			retrograde	6057 Jul 26 06:38	19° Υ 00'58
conjunction	6052 Jan 31 05:34	11° \approx 21'22 0°38'12	opposition	6057 Oct 04 20:06	15° Υ 40'29 -1°52'54
minimum elong	6052 Jan 31 05:35	11° \approx 21'22 0°38'13	min. Earth dist.	6057 Oct 04 19:17	15° Υ 40'38 8.89038 AU
max. Earth dist.	6052 Jan 31 04:02	11° \approx 20'54 10.82684 AU	direct	6057 Dec 13 17:33	12° Υ 21'19
morning rise	6052 Feb 17 01:30	13° \approx 22'20	evening set	6058 Mar 24 05:30	19° Υ 29'43
	6052 Mar 02 04:55	15° \approx			
retrograde	6052 May 27 06:51	20° \approx 31'52	conjunction	6058 Apr 09 21:43	21° Υ 29'06 -1°40'29
opposition	6052 Aug 04 15:26	17° \approx 13'27 0°31'30	minimum elong	6058 Apr 09 21:41	21° Υ 29'06 1°40'30
min. Earth dist.	6052 Aug 04 16:00	17° \approx 13'21 8.85371 AU	max. Earth dist.	6058 Apr 09 22:34	21° Υ 29'22 10.87023 AU
	6052 Sep 06 02:06	15° \approx	morning rise	6058 Apr 26 15:34	23° Υ 29'03
direct	6052 Oct 14 09:24	13° \approx 51'56		6058 Jul 07 06:33	0° \approx
	6052 Nov 20 21:25	15° \approx	retrograde	6058 Aug 07 18:00	0° \approx 48'16
evening set	6053 Jan 25 07:31	21° \approx 09'31		6058 Sep 08 15:36	30° \approx 17'
			opposition	6058 Oct 17 08:09	27° Υ 26'49 -2°12'16
conjunction	6053 Feb 11 04:14	23° \approx 10'09 0°12'45	min. Earth dist.	6058 Oct 17 07:01	27° Υ 27'02 8.84832 AU
minimum elong	6053 Feb 11 04:14	23° \approx 10'09 0°12'45	direct	6058 Dec 25 19:59	24° Υ 07'34
behind sun begin	6053 Feb 10 23:45	23° \approx 08'49		6059 Mar 24 23:35	0° \approx
behind sun end	6053 Feb 11 08:42	23° \approx 11'28	evening set	6059 Apr 05 03:09	1° \approx 17'31
max. Earth dist.	6053 Feb 11 03:20	23° \approx 09'53 10.87659 AU			
morning rise	6053 Feb 27 22:51	25° \approx 10'11	conjunction	6059 Apr 21 19:55	3° \approx 17'39 -1°54'03
	6053 Apr 15 21:31	0° \approx	minimum elong	6059 Apr 21 19:54	3° \approx 17'38 1°54'05
retrograde	6053 Jun 08 10:31	2° \approx 18'14	max. Earth dist.	6059 Apr 21 20:34	3° \approx 17'50 10.82080 AU
	6053 Aug 03 12:11	30° \approx	morning rise	6059 May 08 15:14	5° \approx 18'33
desc. node	6053 Aug 15 12:24	29° \approx 07'07	retrograde	6059 Aug 20 08:31	12° \approx 43'01
opposition	6053 Aug 17 03:15	28° \approx 59'51 -0°00'08	opposition	6059 Oct 29 22:17	9° \approx 20'32 -2°26'14
min. Earth dist.	6053 Aug 17 03:35	28° \approx 59'48 8.89518 AU	min. Earth dist.	6059 Oct 29 21:20	9° \approx 20'43 8.79245 AU
direct	6053 Oct 26 19:42	25° \approx 39'11	direct	6060 Jan 07 01:22	6° \approx 00'58
	6054 Jan 11 05:01	0° \approx	evening set	6060 Apr 16 04:34	13° \approx 13'33
evening set	6054 Feb 06 04:30	2° \approx 52'41		6060 Apr 30 21:58	15° \approx
conjunction	6054 Feb 22 23:33	4° \approx 52'28 -0°13'08	conjunction	6060 May 02 22:47	15° \approx 14'50 -2°02'50
minimum elong	6054 Feb 22 23:33	4° \approx 52'28 0°13'07	minimum elong	6060 May 02 22:46	15° \approx 14'49 2°02'52
behind sun begin	6054 Feb 22 19:17	4° \approx 51'12	max. Earth dist.	6060 May 02 23:30	15° \approx 15'03 10.75863 AU
behind sun end	6054 Feb 23 03:49	4° \approx 53'43	morning rise	6060 May 19 20:15	17° \approx 17'04
max. Earth dist.	6054 Feb 22 22:45	4° \approx 52'14 10.90954 AU	retrograde	6060 Sep 01 03:57	24° \approx 47'19
morning rise	6054 Mar 11 17:13	6° \approx 51'53	opposition	6060 Nov 10 14:48	21° \approx 23'47 -2°34'00
retrograde	6054 Jun 20 13:57	13° \approx 59'48	min. Earth dist.	6060 Nov 10 13:50	21° \approx 23'58 8.72486 AU
opposition	6054 Aug 29 13:45	10° \approx 41'15 -0°31'32	direct	6061 Jan 18 08:33	18° \approx 03'45
min. Earth dist.	6054 Aug 29 14:29	10° \approx 41'07 8.91961 AU	evening set	6061 Apr 28 10:47	25° \approx 19'58
direct	6054 Nov 08 03:39	7° \approx 21'15			
evening set	6055 Feb 17 23:13	14° \approx 31'48	conjunction	6061 May 15 07:24	27° \approx 22'45 -2°06'18
			minimum elong	6061 May 15 07:24	27° \approx 22'45 2°06'19
conjunction	6055 Mar 06 16:48	16° \approx 31'00 -0°38'15	max. Earth dist.	6061 May 15 09:07	27° \approx 23'16 10.68610 AU
minimum elong	6055 Mar 06 16:47	16° \approx 31'00 0°38'14	morning rise	6061 Jun 01 07:34	29° \approx 26'39
max. Earth dist.	6055 Mar 06 15:19	16° \approx 30'34 10.92523 AU		6061 Jun 05 23:50	0° \approx
morning rise	6055 Mar 23 10:00	18° \approx 30'06	retrograde	6061 Sep 14 04:12	7° \approx 03'07
retrograde	6055 Jul 02 17:30	25° \approx 39'09	opposition	6061 Nov 23 10:31	3° \approx 38'31 -2°34'58
opposition	6055 Sep 10 23:46	22° \approx 20'11 -1°01'31	min. Earth dist.	6061 Nov 23 08:45	3° \approx 38'51 8.64819 AU
min. Earth dist.	6055 Sep 11 00:39	22° \approx 20'01 8.92684 AU	direct	6062 Jan 30 19:10	0° \approx 17'53
direct	6055 Nov 20 08:53	19° \approx 00'39	evening set	6062 May 10 22:43	7° \approx 38'33
evening set	6056 Feb 29 16:40	26° \approx 09'20			
			conjunction	6062 May 27 22:28	9° \approx 43'12 -2°04'01
conjunction	6056 Mar 17 09:18	28° \approx 08'16 -1°01'47	minimum elong	6062 May 27 22:29	9° \approx 43'12 2°04'03
minimum elong	6056 Mar 17 09:16	28° \approx 08'16 1°01'46	max. Earth dist.	6062 May 28 01:02	9° \approx 43'59 10.60614 AU
max. Earth dist.	6056 Mar 17 08:11	28° \approx 07'57 10.92364 AU	morning rise	6062 Jun 14 02:01	11° \approx 49'03
	6056 Apr 02 01:18	0° \approx	retrograde	6062 Sep 27 10:46	19° \approx 31'52
morning rise	6056 Apr 03 02:20	0° \approx 07'20	opposition	6062 Dec 06 09:48	16° \approx 06'15 -2°28'44
retrograde	6056 Jul 13 21:50	7° \approx 18'45	min. Earth dist.	6062 Dec 06 07:22	16° \approx 06'44 8.56571 AU
opposition	6056 Sep 22 09:41	3° \approx 59'05 -1°29'00	direct	6063 Feb 12 09:37	12° \approx 44'53
min. Earth dist.	6056 Sep 22 09:53	3° \approx 59'03 8.91693 AU	evening set	6063 May 23 17:34	20° \approx 10'43
direct	6056 Dec 01 13:59	0° \approx 39'50			
evening set	6057 Mar 12 10:22	7° \approx 47'49	conjunction	6063 Jun 09 21:04	22° \approx 17'31 -1°55'49
			minimum elong	6063 Jun 09 21:06	22° \approx 17'31 1°55'51
conjunction	6057 Mar 29 02:35	9° \approx 46'49 -1°22'48	max. Earth dist.	6063 Jun 09 23:33	22° \approx 18'17 10.52242 AU
minimum elong	6057 Mar 29 02:33	9° \approx 46'48 1°22'48	morning rise	6063 Jun 27 04:41	24° \approx 25'35
max. Earth dist.	6057 Mar 29 02:41	9° \approx 46'51 10.90502 AU		6063 Aug 19 07:02	0° \approx

retrograde	6063 Oct 10 23:32	2°♏14'29	morning rise	6069 Sep 18 01:20	14°♎42'58	
	6063 Dec 03 22:02	30°♎II	retrograde	6069 Dec 31 21:54	22°♎48'27	
opposition	6063 Dec 19 12:45	28°♎II48'00 -2°15'10	opposition	6070 Mar 09 02:46	19°♎20'57	0°53'59
min. Earth dist.	6063 Dec 19 10:25	28°♎II48'27 8.48130 AU	min. Earth dist.	6070 Mar 09 01:41	19°♎21'10	8.16437 AU
direct	6064 Feb 25 02:37	25°♎II25'44	direct	6070 May 15 06:04	15°♎53'24	
	6064 May 10 09:25	0°♏	evening set	6070 Aug 27 15:27	23°♎56'49	
evening set	6064 Jun 04 19:51	2°♏57'22				
			conjunction	6070 Sep 14 16:21	26°♎14'42	0°57'10
conjunction	6064 Jun 22 03:36	5°♏06'27 -1°41'47	minimum elong	6070 Sep 14 16:19	26°♎14'41	0°57'10
minimum elong	6064 Jun 22 03:39	5°♏06'28 1°41'49	max. Earth dist.	6070 Sep 14 16:42	26°♎14'49	10.16498 AU
max. Earth dist.	6064 Jun 22 05:26	5°♏07'01 10.43893 AU	morning rise	6070 Oct 02 17:04	28°♎32'31	
morning rise	6064 Jul 09 15:40	7°♏16'52		6070 Oct 14 12:58	0°♏	
retrograde	6064 Oct 23 15:22	15°♏11'19	retrograde	6071 Jan 14 23:13	6°♏35'44	
opposition	6064 Dec 31 19:35	11°♏44'08 -1°54'32	opposition	6071 Mar 22 22:51	3°♏08'48	1°27'17
min. Earth dist.	6064 Dec 31 17:49	11°♏44'29 8.39916 AU	min. Earth dist.	6071 Mar 22 22:51	3°♏08'48	8.17104 AU
direct	6065 Mar 09 02:49	8°♏20'55		6071 May 10 13:28	30°♎♎	
evening set	6065 Jun 18 05:52	15°♏58'40	direct	6071 May 29 08:07	29°♎40'44	
				6071 Jun 17 03:29	0°♏	
conjunction	6065 Jul 05 18:06	18°♏10'06 -1°22'19	evening set	6071 Sep 11 08:39	7°♏46'04	
minimum elong	6065 Jul 05 18:09	18°♏10'07 1°22'21				
max. Earth dist.	6065 Jul 05 19:53	18°♏10'39 10.35991 AU	conjunction	6071 Sep 29 08:28	10°♏03'25	1°22'08
morning rise	6065 Jul 23 10:29	20°♏22'48	minimum elong	6071 Sep 29 08:25	10°♏03'25	1°22'08
retrograde	6065 Nov 06 11:07	28°♏22'04	max. Earth dist.	6071 Sep 29 07:20	10°♏03'04	10.18051 AU
opposition	6066 Jan 14 06:03	24°♏54'21 -1°27'32	morning rise	6071 Oct 17 07:05	12°♏20'23	
min. Earth dist.	6066 Jan 14 04:28	24°♏54'40 8.32369 AU	retrograde	6072 Jan 28 21:28	20°♏20'01	
direct	6066 Mar 22 09:02	21°♏30'09	opposition	6072 Apr 04 18:05	16°♏53'53	1°55'27
evening set	6066 Jul 01 23:50	29°♏14'07	min. Earth dist.	6072 Apr 04 19:02	16°♏53'41	8.19565 AU
	6066 Jul 08 02:50	0°♏	direct	6072 Jun 11 12:03	13°♏25'33	
			evening set	6072 Sep 25 00:11	21°♏31'20	
conjunction	6066 Jul 19 16:30	1°♏27'47 -0°58'12				
minimum elong	6066 Jul 19 16:33	1°♏27'48 0°58'14	conjunction	6072 Oct 12 21:57	23°♏47'38	1°42'16
max. Earth dist.	6066 Jul 19 18:46	1°♏28'30 10.28970 AU	minimum elong	6072 Oct 12 21:55	23°♏47'37	1°42'17
morning rise	6066 Aug 06 12:44	3°♏42'33	max. Earth dist.	6072 Oct 12 19:46	23°♏46'56	10.21307 AU
retrograde	6066 Nov 20 11:13	11°♏45'32	morning rise	6072 Oct 30 17:34	26°♏03'15	
opposition	6067 Jan 27 19:47	8°♏17'31 -0°55'21		6072 Dec 03 16:15	0°♎	
min. Earth dist.	6067 Jan 27 17:55	8°♏17'54 8.25920 AU	retrograde	6073 Feb 10 15:21	3°♎58'20	
direct	6067 Apr 04 19:14	4°♏52'22	opposition	6073 Apr 18 11:58	0°♎33'07	2°16'50
evening set	6067 Jul 16 01:24	12°♏42'20	min. Earth dist.	6073 Apr 18 13:08	0°♎32'53	8.23648 AU
				6073 Apr 25 08:22	30°♎♏	
conjunction	6067 Aug 02 21:55	14°♏57'55 -0°30'36	direct	6073 Jun 25 15:47	27°♏04'49	
minimum elong	6067 Aug 02 21:57	14°♏57'55 0°30'38		6073 Aug 24 00:18	0°♎	
max. Earth dist.	6067 Aug 03 00:33	14°♏58'45 10.23229 AU	evening set	6073 Oct 09 11:54	5°♎09'26	
	6067 Aug 03 04:29	15°♏				
morning rise	6067 Aug 20 21:09	17°♏14'23	conjunction	6073 Oct 27 07:00	7°♎24'17	1°56'31
retrograde	6067 Dec 04 14:50	25°♏19'44	minimum elong	6073 Oct 27 06:58	7°♎24'16	1°56'31
opposition	6068 Feb 10 12:19	21°♏51'39 -0°19'38	max. Earth dist.	6073 Oct 27 04:45	7°♎23'34	10.26125 AU
min. Earth dist.	6068 Feb 10 10:11	21°♏52'05 8.20938 AU	morning rise	6073 Nov 13 23:03	9°♎38'13	
direct	6068 Apr 17 10:21	18°♏25'36		6074 Jan 01 23:32	15°♎	
evening set	6068 Jul 29 09:42	26°♏21'04	retrograde	6074 Feb 24 05:24	17°♎27'54	
				6074 Apr 20 07:58	15°♎♎	
conjunction	6068 Aug 16 08:59	28°♏38'03 -0°01'01	opposition	6074 May 02 03:42	14°♎03'41	2°30'21
minimum elong	6068 Aug 16 08:58	28°♏38'03 0°01'02	min. Earth dist.	6074 May 02 04:49	14°♎03'28	8.29202 AU
behind sun begin	6068 Aug 16 01:39	28°♏35'44	direct	6074 Jul 09 17:30	10°♎35'39	
behind sun end	6068 Aug 16 16:18	28°♏40'22		6074 Sep 22 12:49	15°♎	
max. Earth dist.	6068 Aug 16 11:31	28°♏38'48 10.19097 AU	evening set	6074 Oct 23 18:15	18°♎37'25	
	6068 Aug 27 01:39	0°♎				
asc. node	6068 Aug 28 19:40	0°♎13'20	conjunction	6074 Nov 10 10:16	20°♎50'32	2°04'12
morning rise	6068 Sep 03 09:59	0°♎55'38	minimum elong	6074 Nov 10 10:15	20°♎50'32	2°04'13
retrograde	6068 Dec 17 18:41	9°♎01'51	max. Earth dist.	6074 Nov 10 08:11	20°♎49'53	10.32323 AU
opposition	6069 Feb 23 06:54	5°♎33'57 0°17'34	morning rise	6074 Nov 27 22:32	23°♎02'33	
min. Earth dist.	6069 Feb 23 04:57	5°♎34'20 8.17716 AU		6075 Feb 08 11:45	0°♎♎	
direct	6069 May 01 06:24	2°♎07'06	retrograde	6075 Mar 09 15:31	0°♎♎46'06	
evening set	6069 Aug 12 23:05	10°♎07'10		6075 Apr 08 01:48	30°♎♎	
			opposition	6075 May 15 16:32	27°♎22'56	2°35'32
conjunction	6069 Aug 30 23:49	12°♎24'55 0°28'54	min. Earth dist.	6075 May 15 18:00	27°♎22'38	8.35990 AU
minimum elong	6069 Aug 30 23:48	12°♎24'55 0°28'53	direct	6075 Jul 23 15:26	23°♎55'20	
max. Earth dist.	6069 Aug 31 01:32	12°♎25'28 10.16819 AU		6075 Oct 22 00:45	0°♎♎	

evening set	6075 Nov 06 17:32	1°♏52'46		evening set	6082 Jan 20 14:51	16°♐24'35	
conjunction	6075 Nov 24 06:17	4°♏03'59	2°05'10	conjunction	6082 Feb 06 12:18	18°♐25'46	0°23'37
minimum elong	6075 Nov 24 06:18	4°♏03'59	2°05'12	minimum elong	6082 Feb 06 12:18	18°♐25'46	0°23'37
max. Earth dist.	6075 Nov 24 04:05	4°♏03'18	10.39614 AU	max. Earth dist.	6082 Feb 06 11:12	18°♐25'26	10.84457 AU
morning rise	6075 Dec 11 14:57	6°♏14'00		morning rise	6082 Feb 23 07:34	20°♐26'18	
retrograde	6076 Mar 21 19:12	13°♏51'02		retrograde	6082 Jun 03 14:28	27°♐34'57	
opposition	6076 May 28 02:09	10°♏28'53	2°32'28	opposition	6082 Aug 12 05:06	24°♐16'08	0°13'19
min. Earth dist.	6076 May 28 04:07	10°♏28'29	8.43680 AU	min. Earth dist.	6082 Aug 12 05:45	24°♐16'01	8.86831 AU
direct	6076 Aug 05 11:13	7°♏01'54		direct	6082 Oct 21 21:42	20°♐54'38	
evening set	6076 Nov 19 08:34	14°♏53'46		desc. node	6083 Jan 17 13:42	26°♐27'27	
				evening set	6083 Feb 01 12:52	28°♐09'56	
conjunction	6076 Dec 06 18:07	17°♏03'01	1°59'42		6083 Feb 16 22:55	0°♏	
minimum elong	6076 Dec 06 18:08	17°♏03'01	1°59'44				
max. Earth dist.	6076 Dec 06 15:31	17°♏02'12	10.47624 AU	conjunction	6083 Feb 18 08:33	0°♏10'05	-0°02'14
morning rise	6076 Dec 23 23:37	19°♏11'03		minimum elong	6083 Feb 18 08:32	0°♏10'05	0°02'14
retrograde	6077 Apr 03 16:13	26°♏41'35		behind sun begin	6083 Feb 18 01:32	0°♏08'00	
opposition	6077 Jun 10 07:53	23°♏20'21	2°21'47	behind sun end	6083 Feb 18 15:33	0°♏12'09	
min. Earth dist.	6077 Jun 10 10:11	23°♏19'54	8.51875 AU	max. Earth dist.	6083 Feb 18 07:48	0°♏09'54	10.88852 AU
direct	6077 Aug 19 03:11	19°♏54'09		morning rise	6083 Mar 07 02:47	2°♏09'48	
evening set	6077 Dec 02 15:17	27°♏39'38		retrograde	6083 Jun 15 17:20	9°♏17'35	
				opposition	6083 Aug 24 15:47	5°♏58'44	-0°18'18
conjunction	6077 Dec 19 21:53	29°♏46'57	1°48'23	min. Earth dist.	6083 Aug 24 15:29	5°♏58'47	8.90483 AU
minimum elong	6077 Dec 19 21:55	29°♏46'58	1°48'26	direct	6083 Nov 03 08:43	2°♏38'05	
max. Earth dist.	6077 Dec 19 18:53	29°♏46'02	10.55940 AU	evening set	6084 Feb 13 07:52	9°♏49'40	
	6077 Dec 21 16:05	0°♏					
morning rise	6078 Jan 06 00:40	1°♏53'06		conjunction	6084 Mar 01 02:10	11°♏49'05	-0°27'42
retrograde	6078 Apr 16 08:54	9°♏17'29		minimum elong	6084 Mar 01 02:09	11°♏49'05	0°27'41
opposition	6078 Jun 23 09:26	5°♏57'02	2°04'24	max. Earth dist.	6084 Mar 01 02:43	11°♏49'15	10.91714 AU
min. Earth dist.	6078 Jun 23 11:16	5°♏56'41	8.60152 AU	morning rise	6084 Mar 17 19:32	13°♏48'16	
direct	6078 Sep 01 13:26	2°♏31'43		retrograde	6084 Jun 26 21:11	20°♏56'24	
evening set	6078 Dec 15 13:43	10°♏10'26		opposition	6084 Sep 05 01:14	17°♏37'21	-0°48'58
				min. Earth dist.	6084 Sep 04 23:56	17°♏37'35	8.92549 AU
conjunction	6079 Jan 01 17:44	12°♏15'58	1°32'05	direct	6084 Nov 14 13:55	14°♏17'26	
minimum elong	6079 Jan 01 17:47	12°♏15'58	1°32'07	evening set	6085 Feb 24 01:10	21°♏26'26	
max. Earth dist.	6079 Jan 01 15:26	12°♏15'15	10.64141 AU				
morning rise	6079 Jan 18 18:05	14°♏20'23		conjunction	6085 Mar 12 18:19	23°♏25'24	-0°51'57
retrograde	6079 Apr 28 21:24	21°♏39'17		minimum elong	6085 Mar 12 18:17	23°♏25'23	0°51'57
opposition	6079 Jul 06 07:16	18°♏19'28	1°41'33	max. Earth dist.	6085 Mar 12 19:34	23°♏25'46	10.92931 AU
min. Earth dist.	6079 Jul 06 08:18	18°♏19'16	8.68115 AU	morning rise	6085 Mar 29 11:14	25°♏24'21	
direct	6079 Sep 14 17:25	14°♏55'06			6085 May 12 19:07	0°♏	
evening set	6079 Dec 28 04:19	22°♏27'03		retrograde	6085 Jul 09 00:54	2°♏34'04	
					6085 Sep 07 04:49	30°♏	
conjunction	6080 Jan 14 06:01	24°♏30'56	1°11'48	opposition	6085 Sep 17 10:26	29°♏14'39	-1°17'33
minimum elong	6080 Jan 14 06:03	24°♏30'57	1°11'50	min. Earth dist.	6085 Sep 17 09:05	29°♏14'54	8.92948 AU
max. Earth dist.	6080 Jan 14 04:52	24°♏30'35	10.71841 AU	direct	6085 Nov 26 16:51	25°♏55'18	
morning rise	6080 Jan 31 04:14	26°♏33'49			6086 Feb 08 01:07	0°♏	
	6080 Mar 02 02:21	0°♐		evening set	6086 Mar 07 18:09	3°♏02'54	
retrograde	6080 May 10 06:05	3°♐48'12					
opposition	6080 Jul 18 01:33	0°♐28'52	1°14'32	conjunction	6086 Mar 24 10:21	5°♏01'41	-1°14'05
min. Earth dist.	6080 Jul 18 02:05	0°♐28'46	8.75411 AU	minimum elong	6086 Mar 24 10:19	5°♏01'41	1°14'05
	6080 Jul 24 09:55	30°♏		max. Earth dist.	6086 Mar 24 11:20	5°♏01'59	10.92461 AU
direct	6080 Sep 26 16:34	27°♏05'28		morning rise	6086 Apr 10 03:19	7°♏00'42	
	6080 Nov 26 22:31	0°♐		retrograde	6086 Jul 21 07:07	14°♏13'11	
evening set	6081 Jan 08 12:21	4°♐31'06		opposition	6086 Sep 29 20:04	10°♏53'14	-1°42'59
				min. Earth dist.	6086 Sep 29 18:53	10°♏53'27	8.91672 AU
conjunction	6081 Jan 25 11:52	6°♐33'31	0°48'37	direct	6086 Dec 08 20:05	7°♏34'14	
minimum elong	6081 Jan 25 11:53	6°♐33'32	0°48'38	evening set	6087 Mar 19 11:55	14°♏41'36	
max. Earth dist.	6081 Jan 25 11:15	6°♐33'20	10.78708 AU				
morning rise	6081 Feb 11 08:24	8°♐35'05		conjunction	6087 Apr 05 03:49	16°♏40'33	-1°33'13
	6081 Apr 22 09:48	15°♐		minimum elong	6087 Apr 05 03:47	16°♏40'33	1°33'14
retrograde	6081 May 22 12:24	15°♐46'00		max. Earth dist.	6087 Apr 05 04:53	16°♏40'53	10.90340 AU
	6081 Jun 22 02:11	15°♏		morning rise	6087 Apr 21 21:19	18°♏39'59	
opposition	6081 Jul 30 16:33	12°♐27'00	0°44'40	retrograde	6087 Aug 02 15:06	25°♏56'16	
min. Earth dist.	6081 Jul 30 17:22	12°♐26'51	8.81738 AU	opposition	6087 Oct 12 06:45	22°♏35'35	-2°04'19
direct	6081 Oct 09 09:21	9°♐04'35		min. Earth dist.	6087 Oct 12 05:13	22°♏35'53	8.88783 AU
	6082 Jan 08 09:19	15°♐		direct	6087 Dec 20 22:54	19°♏16'47	

evening set	6088 Mar 30 07:35	26° Υ 25'01	direct	6094 Mar 03 15:49	2° Θ 44'10
			evening set	6094 Jun 12 11:52	10° Θ 17'30
conjunction	6088 Apr 15 23:58	28° Υ 24'30 -1°48'34	conjunction	6094 Jun 29 21:57	12° Θ 27'27 -1°31'38
minimum elong	6088 Apr 15 23:56	28° Υ 24'30 1°48'36	minimum elong	6094 Jun 29 22:00	12° Θ 27'28 1°31'40
max. Earth dist.	6088 Apr 16 02:15	28° Υ 25'11 10.86649 AU	max. Earth dist.	6094 Jun 29 23:47	12° Θ 28'01 10.42301 AU
	6088 Apr 29 06:57	0° \mathcal{B}	morning rise	6094 Jul 17 12:00	14° Θ 38'40
morning rise	6088 May 02 18:27	0° \mathcal{B} 24'39	retrograde	6094 Oct 31 11:53	22° Θ 34'21
retrograde	6088 Aug 14 03:41	7° \mathcal{B} 45'38	opposition	6095 Jan 08 11:35	19° Θ 07'19 -1°40'21
opposition	6088 Oct 23 19:03	4° \mathcal{B} 24'08 -2°20'36	min. Earth dist.	6095 Jan 08 10:00	19° Θ 07'38 8.38252 AU
min. Earth dist.	6088 Oct 23 16:35	4° \mathcal{B} 24'35 8.84376 AU	direct	6095 Mar 16 17:08	15° Θ 44'02
direct	6089 Jan 01 03:21	1° \mathcal{B} 05'18	evening set	6095 Jun 26 01:12	23° Θ 23'39
evening set	6089 Apr 11 06:36	8° \mathcal{B} 15'28			
conjunction	6089 Apr 28 00:04	10° \mathcal{B} 15'52 -1°59'27	conjunction	6095 Jul 13 15:42	25° Θ 35'57 -1°09'38
minimum elong	6089 Apr 28 00:02	10° \mathcal{B} 15'52 1°59'29	minimum elong	6095 Jul 13 15:45	25° Θ 35'58 1°09'40
max. Earth dist.	6089 Apr 28 02:57	10° \mathcal{B} 16'44 10.81515 AU	max. Earth dist.	6095 Jul 13 16:41	25° Θ 36'15 10.34331 AU
morning rise	6089 May 14 20:10	12° \mathcal{B} 17'06	morning rise	6095 Jul 31 09:58	27° Θ 49'25
	6089 Jun 07 22:25	15° \mathcal{B}		6095 Aug 18 14:47	0° \mathcal{Q}
retrograde	6089 Aug 26 21:59	19° \mathcal{B} 43'25	retrograde	6095 Nov 14 10:12	5° \mathcal{Q} 49'26
opposition	6089 Nov 05 09:35	16° \mathcal{B} 21'01 -2°31'04	opposition	6096 Jan 21 22:44	2° \mathcal{Q} 21'50 -1°10'33
min. Earth dist.	6089 Nov 05 06:50	16° \mathcal{B} 21'32 8.78605 AU	min. Earth dist.	6096 Jan 21 21:51	2° \mathcal{Q} 22'01 8.30711 AU
	6089 Nov 23 18:10	15° \mathcal{R} \mathcal{B}		6096 Feb 23 12:40	30° \mathcal{R} Θ
direct	6090 Jan 13 07:39	13° \mathcal{B} 01'56	direct	6096 Mar 28 23:12	28° Θ 57'21
	6090 Mar 03 00:14	15° \mathcal{B}		6096 May 02 01:17	0° \mathcal{Q}
evening set	6090 Apr 23 09:53	20° \mathcal{B} 15'03	evening set	6096 Jul 08 22:17	6° \mathcal{Q} 43'17
conjunction	6090 May 10 05:07	22° \mathcal{B} 16'43 -2°05'16	conjunction	6096 Jul 26 16:48	8° \mathcal{Q} 57'41 -0°43'36
minimum elong	6090 May 10 05:06	22° \mathcal{B} 16'42 2°05'18	minimum elong	6096 Jul 26 16:50	8° \mathcal{Q} 57'42 0°43'38
max. Earth dist.	6090 May 10 07:30	22° \mathcal{B} 17'26 10.75130 AU	max. Earth dist.	6096 Jul 26 16:58	8° \mathcal{Q} 57'44 10.27383 AU
morning rise	6090 May 27 03:43	24° \mathcal{B} 19'25	morning rise	6096 Aug 13 14:38	11° \mathcal{Q} 13'07
	6090 Jul 22 11:48	0° \mathcal{I}		6096 Sep 15 04:51	15° \mathcal{Q}
retrograde	6090 Sep 08 18:54	1° \mathcal{I} 51'32	retrograde	6096 Nov 27 10:59	19° \mathcal{Q} 16'19
	6090 Oct 28 07:26	30° \mathcal{R} \mathcal{B}	opposition	6097 Feb 03 13:05	15° \mathcal{Q} 48'21 -0°36'24
opposition	6090 Nov 18 03:07	28° \mathcal{B} 28'09 -2°35'03	min. Earth dist.	6097 Feb 03 12:52	15° \mathcal{Q} 48'23 8.24407 AU
min. Earth dist.	6090 Nov 18 00:55	28° \mathcal{B} 28'34 8.71674 AU		6097 Feb 13 14:08	15° \mathcal{R} \mathcal{Q}
direct	6091 Jan 25 15:16	25° \mathcal{B} 08'34	direct	6097 Apr 11 11:58	12° \mathcal{Q} 22'42
	6091 Apr 14 15:24	0° \mathcal{I}		6097 Jun 05 13:41	15° \mathcal{Q}
evening set	6091 May 05 18:18	2° \mathcal{I} 25'35	evening set	6097 Jul 23 02:13	20° \mathcal{Q} 14'36
conjunction	6091 May 22 16:10	4° \mathcal{I} 28'53 -2°05'32	conjunction	6097 Aug 10 00:03	22° \mathcal{Q} 30'44 -0°14'52
minimum elong	6091 May 22 16:11	4° \mathcal{I} 28'53 2°05'34	minimum elong	6097 Aug 10 00:03	22° \mathcal{Q} 30'44 0°14'53
max. Earth dist.	6091 May 22 17:46	4° \mathcal{I} 29'22 10.67707 AU	behind sun begin	6097 Aug 09 21:31	22° \mathcal{Q} 29'56
morning rise	6091 Jun 08 18:01	6° \mathcal{I} 33'22	behind sun end	6097 Aug 10 02:36	22° \mathcal{Q} 31'32
retrograde	6091 Sep 21 20:52	14° \mathcal{I} 11'35	max. Earth dist.	6097 Aug 09 23:50	22° \mathcal{Q} 30'40 10.21844 AU
opposition	6091 Nov 30 23:49	10° \mathcal{I} 47'13 -2°32'02	morning rise	6097 Aug 28 00:24	24° \mathcal{Q} 47'38
min. Earth dist.	6091 Nov 30 22:27	10° \mathcal{I} 47'29 8.63801 AU		6097 Oct 13 20:41	0° \mathcal{M}
direct	6092 Feb 07 03:32	7° \mathcal{I} 26'55	retrograde	6097 Dec 11 11:46	2° \mathcal{M} 52'42
evening set	6092 May 17 08:57	14° \mathcal{I} 48'42		6098 Feb 09 23:00	30° \mathcal{R} \mathcal{Q}
conjunction	6092 Jun 03 10:23	16° \mathcal{I} 54'00 -2°00'01	asc. node	6098 Feb 14 23:06	29° \mathcal{Q} 35'44
minimum elong	6092 Jun 03 10:25	16° \mathcal{I} 54'00 2°00'02	opposition	6098 Feb 17 05:54	29° \mathcal{Q} 24'35 0°00'13
max. Earth dist.	6092 Jun 03 11:54	16° \mathcal{I} 54'28 10.59485 AU	min. Earth dist.	6098 Feb 17 05:59	29° \mathcal{Q} 24'34 8.19696 AU
morning rise	6092 Jun 20 15:59	19° \mathcal{I} 00'35	direct	6098 Apr 25 06:18	25° \mathcal{Q} 57'54
retrograde	6092 Oct 04 04:52	26° \mathcal{I} 44'58		6098 Jul 03 21:04	0° \mathcal{M}
opposition	6092 Dec 12 23:51	23° \mathcal{I} 19'38 -2°21'48	evening set	6098 Aug 06 12:13	3° \mathcal{M} 55'06
min. Earth dist.	6092 Dec 12 22:38	23° \mathcal{I} 19'53 8.55290 AU	conjunction	6098 Aug 24 12:20	6° \mathcal{M} 12'25 0°15'03
direct	6093 Feb 18 19:04	19° \mathcal{I} 58'28	minimum elong	6098 Aug 24 12:19	6° \mathcal{M} 12'25 0°15'02
evening set	6093 May 30 06:39	27° \mathcal{I} 25'48	behind sun begin	6098 Aug 24 10:00	6° \mathcal{M} 11'41
			behind sun end	6098 Aug 24 14:38	6° \mathcal{M} 13'09
conjunction	6093 Jun 16 12:16	29° \mathcal{I} 33'22 -1°48'37	max. Earth dist.	6098 Aug 24 12:08	6° \mathcal{M} 12'22 10.18027 AU
minimum elong	6093 Jun 16 12:19	29° \mathcal{I} 33'23 1°48'39	morning rise	6098 Sep 11 13:51	8° \mathcal{M} 30'12
max. Earth dist.	6093 Jun 16 14:05	29° \mathcal{I} 33'55 10.50850 AU	retrograde	6098 Dec 25 14:05	16° \mathcal{M} 35'38
	6093 Jun 20 02:00	0° Θ	opposition	6099 Mar 03 00:17	13° \mathcal{M} 07'38 0°37'10
morning rise	6093 Jul 03 21:58	1° Θ 42'13	min. Earth dist.	6099 Mar 03 00:14	13° \mathcal{M} 07'38 8.16840 AU
retrograde	6093 Oct 17 17:48	9° Θ 32'34	direct	6099 May 09 03:25	9° \mathcal{M} 40'02
opposition	6093 Dec 26 03:50	6° Θ 06'20 -2°04'25	evening set	6099 Aug 21 02:33	17° \mathcal{M} 41'33
min. Earth dist.	6093 Dec 26 02:17	6° Θ 06'38 8.46604 AU			

conjunction	6099 Sep 08 03:38	19° <u>17</u> 59'26	0°44'12
minimum elong	6099 Sep 08 03:36	19° <u>17</u> 59'25	0°44'11
max. Earth dist.	6099 Sep 08 03:32	19° <u>17</u> 59'24	10.16137 AU
morning rise	6099 Sep 26 04:54	22° <u>17</u> 17'24	
	6099 Dec 19 20:34	0° <u>17</u>	
retrograde	6100 Jan 08 16:36	0° <u>17</u> 21'40	
	6100 Jan 28 14:07	30° <u>17</u>	
opposition	6100 Mar 16 19:40	26° <u>17</u> 54'02	1°12'08
min. Earth dist.	6100 Mar 16 19:32	26° <u>17</u> 54'03	8.15988 AU
direct	6100 May 23 02:44	23° <u>17</u> 25'46	
	6100 Aug 23 13:46	0° <u>17</u>	
evening set	6100 Sep 04 18:57	1° <u>17</u> 30'15	
conjunction	6100 Sep 22 19:35	3° <u>17</u> 47'59	1°10'52
minimum elong	6100 Sep 22 19:32	3° <u>17</u> 47'58	1°10'52
max. Earth dist.	6100 Sep 22 19:13	3° <u>17</u> 47'52	10.16276 AU
morning rise	6100 Oct 10 19:14	6° <u>17</u> 05'29	
retrograde	6101 Jan 22 17:21	14° <u>17</u> 07'08	
opposition	6101 Mar 30 15:06	10° <u>17</u> 40'06	1°42'56
min. Earth dist.	6101 Mar 30 15:20	10° <u>17</u> 40'03	8.17182 AU
direct	6101 Jun 06 04:55	7° <u>17</u> 11'24	
evening set	6101 Sep 19 11:12	15° <u>17</u> 17'18	
conjunction	6101 Oct 07 10:12	17° <u>17</u> 34'16	1°33'26
minimum elong	6101 Oct 07 10:09	17° <u>17</u> 34'15	1°33'26
max. Earth dist.	6101 Oct 07 09:13	17° <u>17</u> 33'57	10.18441 AU
morning rise	6101 Oct 25 07:16	19° <u>17</u> 50'42	