

evening set	6600 Feb 12 02:26	8° 8 42'09		behind sun end	6606 Mar 13 00:39	22° 8 24'15	
				max. Earth dist.	6606 Mar 12 16:04	22° 8 23'28	31.18559 AU
conjunction	6600 Feb 27 12:15	9° 8 16'41	0°31'00	morning rise	6606 Mar 28 05:52	22° 8 58'29	
minimum elong	6600 Feb 27 12:15	9° 8 16'41	0°31'02	retrograde	6606 Jun 24 11:28	24° 8 53'03	
max. Earth dist.	6600 Feb 27 02:11	9° 8 15'45	31.24364 AU	opposition	6606 Sep 12 01:12	23° 8 30'09	0°13'40
morning rise	6600 Mar 14 20:44	9° 8 51'09		min. Earth dist.	6606 Sep 12 06:20	23° 8 29'48	29.18204 AU
retrograde	6600 Jun 10 14:40	11° 8 45'00		direct	6606 Dec 01 09:14	22° 8 06'21	
opposition	6600 Aug 28 21:46	10° 8 22'31	0°31'41	evening set	6607 Feb 27 22:18	24° 8 00'53	
min. Earth dist.	6600 Aug 29 07:24	10° 8 21'52	29.23869 AU				
direct	6600 Nov 17 14:50	8° 8 58'35		conjunction	6607 Mar 15 07:10	24° 8 35'27	0°11'22
evening set	6601 Feb 14 12:16	10° 8 53'24		minimum elong	6607 Mar 15 07:09	24° 8 35'27	0°11'22
				behind sun begin	6607 Mar 15 02:26	24° 8 35'01	
conjunction	6601 Mar 01 21:45	11° 8 27'56	0°28'18	behind sun end	6607 Mar 15 11:53	24° 8 35'52	
minimum elong	6601 Mar 01 21:45	11° 8 27'56	0°28'19	max. Earth dist.	6607 Mar 15 02:46	24° 8 35'03	31.17855 AU
max. Earth dist.	6601 Mar 01 11:16	11° 8 26'57	31.23335 AU	morning rise	6607 Mar 30 15:31	25° 8 09'59	
morning rise	6601 Mar 17 06:20	12° 8 02'24		retrograde	6607 Jun 26 23:53	27° 8 04'40	
retrograde	6601 Jun 13 01:59	13° 8 56'22		opposition	6607 Sep 14 13:42	25° 8 41'45	0°10'33
opposition	6601 Aug 31 10:20	12° 8 33'48	0°28'46	min. Earth dist.	6607 Sep 14 17:08	25° 8 41'31	29.17507 AU
min. Earth dist.	6601 Aug 31 19:32	12° 8 33'11	29.22811 AU	direct	6607 Dec 03 22:27	24° 8 18'00	
direct	6601 Nov 20 00:27	11° 8 09'52		evening set	6608 Mar 01 08:10	26° 8 12'32	
evening set	6602 Feb 16 21:56	13° 8 04'36					
				conjunction	6608 Mar 16 16:50	26° 8 47'06	0°08'28
conjunction	6602 Mar 04 07:27	13° 8 39'09	0°25'34	minimum elong	6608 Mar 16 16:50	26° 8 47'06	0°08'28
minimum elong	6602 Mar 04 07:27	13° 8 39'09	0°25'35	behind sun begin	6608 Mar 16 11:12	26° 8 46'35	
max. Earth dist.	6602 Mar 03 22:45	13° 8 38'20	31.22258 AU	behind sun end	6608 Mar 16 22:28	26° 8 47'36	
morning rise	6602 Mar 19 15:49	14° 8 13'37		max. Earth dist.	6608 Mar 16 12:43	26° 8 46'44	31.17162 AU
retrograde	6602 Jun 15 11:45	16° 8 07'41		morning rise	6608 Apr 01 01:17	27° 8 21'39	
opposition	6602 Sep 02 22:49	14° 8 45'02	0°25'49	retrograde	6608 Jun 28 11:50	29° 8 16'30	
min. Earth dist.	6602 Sep 03 07:30	14° 8 44'26	29.21728 AU	opposition	6608 Sep 16 12:37	27° 8 53'32	0°07'25
direct	6602 Nov 22 11:50	13° 8 21'05		min. Earth dist.	6608 Sep 16 06:10	27° 8 53'18	29.16816 AU
evening set	6603 Feb 19 07:40	15° 8 15'46		direct	6608 Dec 05 09:17	26° 8 29'52	
				evening set	6609 Mar 03 17:53	28° 8 24'21	
conjunction	6603 Mar 06 16:53	15° 8 50'18	0°22'47				
minimum elong	6603 Mar 06 16:53	15° 8 50'18	0°22'47	conjunction	6609 Mar 19 02:35	28° 8 58'55	0°05'32
max. Earth dist.	6603 Mar 06 08:05	15° 8 49'29	31.21200 AU	minimum elong	6609 Mar 19 02:34	28° 8 58'55	0°05'32
morning rise	6603 Mar 22 01:24	16° 8 24'48		behind sun begin	6609 Mar 18 20:24	28° 8 58'22	
retrograde	6603 Jun 18 00:19	18° 8 18'58		behind sun end	6609 Mar 19 08:45	28° 8 59'29	
opposition	6603 Sep 05 11:17	16° 8 56'13	0°22'50	max. Earth dist.	6609 Mar 18 23:59	28° 8 58'43	31.16454 AU
min. Earth dist.	6603 Sep 05 18:32	16° 8 55'44	29.20704 AU	morning rise	6609 Apr 03 10:56	29° 8 33'30	
direct	6603 Nov 24 22:36	15° 8 32'17			6609 Apr 15 18:53	0° 8 00'00	
evening set	6604 Feb 21 17:16	17° 8 26'55		retrograde	6609 Jun 30 21:50	1° 8 28'30	
				opposition	6609 Sep 18 15:32	0° 8 05'30	0°04'16
conjunction	6604 Mar 08 02:28	18° 8 01'27	0°19'58	min. Earth dist.	6609 Sep 18 17:52	0° 8 05'21	29.16072 AU
minimum elong	6604 Mar 08 02:28	18° 8 01'27	0°19'59		6609 Sep 22 00:42	30° 8 00'00	
max. Earth dist.	6604 Mar 07 19:29	18° 8 00'48	31.20209 AU	direct	6609 Dec 07 22:00	28° 8 41'53	
morning rise	6604 Mar 23 10:47	18° 8 35'57			6610 Feb 16 23:26	0° 8 00'00	
retrograde	6604 Jun 19 11:34	20° 8 30'15		evening set	6610 Mar 06 03:56	0° 8 00'00	
opposition	6604 Sep 06 23:53	19° 8 07'26	0°19'48				
min. Earth dist.	6604 Sep 07 06:55	19° 8 06'57	29.19765 AU	conjunction	6610 Mar 21 12:24	1° 8 10'55	0°02'36
direct	6604 Nov 26 10:31	17° 8 43'31		minimum elong	6610 Mar 21 12:24	1° 8 10'55	0°02'36
evening set	6605 Feb 23 03:00	19° 8 38'07		behind sun begin	6610 Mar 21 06:00	1° 8 10'21	
				behind sun end	6610 Mar 21 18:47	1° 8 11'30	
conjunction	6605 Mar 10 11:59	20° 8 12'39	0°17'08	max. Earth dist.	6610 Mar 21 09:20	1° 8 10'41	31.15673 AU
minimum elong	6605 Mar 10 11:59	20° 8 12'39	0°17'08	morning rise	6610 Apr 05 20:57	1° 8 45'31	
max. Earth dist.	6605 Mar 10 05:22	20° 8 12'03	31.19338 AU	retrograde	6610 Jul 03 09:50	3° 8 40'39	
morning rise	6605 Mar 25 20:23	20° 8 47'10		opposition	6610 Sep 21 04:25	2° 8 17'37	0°01'07
retrograde	6605 Jun 22 00:19	22° 8 41'35		min. Earth dist.	6610 Sep 21 06:26	2° 8 17'29	29.15252 AU
opposition	6605 Sep 09 12:27	21° 8 18'43	0°16'45	direct	6610 Dec 10 08:07	0° 8 00'00	
min. Earth dist.	6605 Sep 09 17:25	21° 8 18'23	29.18943 AU	desc. node	6611 Jan 29 17:36	1° 8 35'04	
direct	6605 Nov 28 21:26	19° 8 54'51		evening set	6611 Mar 08 13:51	2° 8 48'28	
evening set	6606 Feb 25 12:34	21° 8 49'25					
				conjunction	6611 Mar 23 22:25	3° 8 23'03	-0°00'27
conjunction	6606 Mar 12 21:29	22° 8 23'58	0°14'16	minimum elong	6611 Mar 23 22:27	3° 8 23'03	0°00'28
minimum elong	6606 Mar 12 21:29	22° 8 23'58	0°14'16	behind sun begin	6611 Mar 23 16:04	3° 8 22'29	
behind sun begin	6606 Mar 12 18:20	22° 8 23'41		behind sun end	6611 Mar 24 04:49	3° 8 23'38	

max. Earth dist.	6611 Mar 23 20:54	3°♈22'59	31.14787 AU	conjunction	6617 Apr 05 10:09	16°♈36'14	-0°17'59
morning rise	6611 Apr 08 06:53	3°♈57'40		minimum elong	6617 Apr 05 10:09	16°♈36'14	0°18'01
retrograde	6611 Jul 05 20:29	5°♈52'57		max. Earth dist.	6617 Apr 05 12:07	16°♈36'25	31.07734 AU
opposition	6611 Sep 23 17:28	4°♈29'51	-0°02'02	morning rise	6617 Apr 20 19:20	17°♈10'58	
min. Earth dist.	6611 Sep 23 19:13	4°♈29'44	29.14293 AU	retrograde	6617 Jul 18 22:33	19°♈06'59	
direct	6611 Dec 12 20:11	3°♈06'18		opposition	6617 Oct 06 23:54	17°♈43'21	-0°20'44
evening set	6612 Mar 09 23:59	5°♈00'41		min. Earth dist.	6617 Oct 06 21:13	17°♈43'32	29.07216 AU
				direct	6617 Dec 25 18:19	16°♈19'48	
conjunction	6612 Mar 25 08:22	5°♈35'16	-0°03'27	evening set	6618 Mar 23 11:44	18°♈13'54	
minimum elong	6612 Mar 25 08:22	5°♈35'16	0°03'27				
behind sun begin	6612 Mar 25 02:00	5°♈34'42		conjunction	6618 Apr 07 20:16	18°♈48'33	-0°20'51
behind sun end	6612 Mar 25 14:43	5°♈35'51		minimum elong	6618 Apr 07 20:16	18°♈48'33	0°20'51
max. Earth dist.	6612 Mar 25 06:18	5°♈35'08	31.13765 AU	max. Earth dist.	6618 Apr 08 00:04	18°♈48'54	31.06710 AU
morning rise	6612 Apr 09 17:00	6°♈09'54		morning rise	6618 Apr 23 05:28	19°♈23'18	
retrograde	6612 Jul 07 09:10	8°♈05'19		retrograde	6618 Jul 21 09:15	21°♈19'27	
opposition	6612 Sep 25 06:31	6°♈42'08	-0°05'11	opposition	6618 Oct 09 12:47	19°♈55'47	-0°23'47
min. Earth dist.	6612 Sep 25 07:16	6°♈42'05	29.13206 AU	min. Earth dist.	6618 Oct 09 08:35	19°♈56'04	29.06236 AU
direct	6612 Dec 14 06:59	5°♈18'35		direct	6618 Dec 28 07:07	18°♈32'17	
evening set	6613 Mar 12 09:59	7°♈12'55		evening set	6619 Mar 25 21:52	20°♈26'22	
conjunction	6613 Mar 27 18:27	7°♈47'31	-0°06'23	conjunction	6619 Apr 10 06:18	21°♈01'02	-0°23'41
minimum elong	6613 Mar 27 18:27	7°♈47'31	0°06'24	minimum elong	6619 Apr 10 06:18	21°♈01'02	0°23'42
behind sun begin	6613 Mar 27 12:24	7°♈46'58		max. Earth dist.	6619 Apr 10 09:55	21°♈01'22	31.05775 AU
behind sun end	6613 Mar 28 00:30	7°♈48'04		morning rise	6619 Apr 25 15:48	21°♈35'49	
max. Earth dist.	6613 Mar 27 17:42	7°♈47'28	31.12610 AU	retrograde	6619 Jul 23 21:57	23°♈32'07	
morning rise	6613 Apr 12 03:04	8°♈22'10		opposition	6619 Oct 12 01:56	22°♈08'25	-0°26'48
retrograde	6613 Jul 09 20:28	10°♈17'42		min. Earth dist.	6619 Oct 11 21:03	22°♈08'45	29.05343 AU
opposition	6613 Sep 27 19:41	8°♈54'25	-0°08'20	direct	6619 Dec 30 17:36	20°♈44'58	
min. Earth dist.	6613 Sep 27 20:38	8°♈54'21	29.11998 AU	evening set	6620 Mar 27 07:49	22°♈39'02	
direct	6613 Dec 16 18:34	7°♈30'52					
evening set	6614 Mar 14 19:55	9°♈25'07		conjunction	6620 Apr 11 16:27	23°♈13'44	-0°26'28
				minimum elong	6620 Apr 11 16:27	23°♈13'44	0°26'30
conjunction	6614 Mar 30 04:21	9°♈59'44	-0°09'18	max. Earth dist.	6620 Apr 11 22:02	23°♈14'15	31.04902 AU
minimum elong	6614 Mar 30 04:20	9°♈59'44	0°09'19	morning rise	6620 Apr 27 01:56	23°♈48'33	
behind sun begin	6614 Mar 29 22:55	9°♈59'14		retrograde	6620 Jul 25 09:09	25°♈45'01	
behind sun end	6614 Mar 30 09:45	10°♈00'13		opposition	6620 Oct 13 15:09	24°♈21'17	-0°29'46
max. Earth dist.	6614 Mar 30 03:44	9°♈59'41	31.11375 AU	min. Earth dist.	6620 Oct 13 09:37	24°♈21'39	29.04483 AU
morning rise	6614 Apr 14 13:10	10°♈34'24		direct	6621 Jan 01 05:43	22°♈57'54	
retrograde	6614 Jul 12 09:24	12°♈30'02		evening set	6621 Mar 29 18:06	24°♈51'58	
opposition	6614 Sep 30 08:40	11°♈06'39	-0°11'28				
min. Earth dist.	6614 Sep 30 07:56	11°♈06'42	29.10735 AU	conjunction	6621 Apr 14 02:39	25°♈26'40	-0°29'14
direct	6614 Dec 19 05:53	9°♈43'04		minimum elong	6621 Apr 14 02:39	25°♈26'40	0°29'16
evening set	6615 Mar 17 05:54	11°♈37'17		max. Earth dist.	6621 Apr 14 08:06	25°♈27'11	31.04059 AU
				morning rise	6621 Apr 29 12:28	26°♈01'30	
conjunction	6615 Apr 01 14:19	12°♈11'54	-0°12'13	retrograde	6621 Jul 27 22:01	27°♈58'08	
minimum elong	6615 Apr 01 14:19	12°♈11'54	0°12'14	opposition	6621 Oct 16 04:21	26°♈34'23	-0°32'42
behind sun begin	6615 Apr 01 09:58	12°♈11'30		min. Earth dist.	6621 Oct 15 21:42	26°♈34'50	29.03643 AU
behind sun end	6615 Apr 01 18:40	12°♈12'17		direct	6622 Jan 03 16:00	25°♈11'03	
max. Earth dist.	6615 Apr 01 14:35	12°♈11'55	31.10096 AU	evening set	6622 Apr 01 04:19	27°♈05'06	
morning rise	6615 Apr 16 23:13	12°♈46'35					
retrograde	6615 Jul 14 21:08	14°♈42'20		conjunction	6622 Apr 16 13:04	27°♈39'50	-0°31'57
opposition	6615 Oct 02 21:41	13°♈18'51	-0°14'35	minimum elong	6622 Apr 16 13:04	27°♈39'50	0°31'59
min. Earth dist.	6615 Oct 02 21:11	13°♈18'53	29.09477 AU	max. Earth dist.	6622 Apr 16 19:53	27°♈40'28	31.03191 AU
direct	6615 Dec 21 17:57	11°♈55'16		morning rise	6622 May 01 22:58	28°♈14'42	
evening set	6616 Mar 18 15:52	13°♈49'26			6622 Jul 04 01:37	0°♊	
				retrograde	6622 Jul 30 09:35	0°♊11'30	
conjunction	6616 Apr 03 00:19	14°♈24'03	-0°15'07		6622 Aug 26 10:10	30°♊	
minimum elong	6616 Apr 03 00:19	14°♈24'03	0°15'07	opposition	6622 Oct 18 17:41	28°♈47'42	-0°35'35
behind sun begin	6616 Apr 02 21:54	14°♈23'50		min. Earth dist.	6622 Oct 18 11:15	28°♈48'08	29.02749 AU
behind sun end	6616 Apr 03 02:43	14°♈24'16		direct	6623 Jan 06 02:45	27°♈24'24	
max. Earth dist.	6616 Apr 03 01:50	14°♈24'11	31.08874 AU	evening set	6623 Apr 03 14:48	29°♈18'27	
morning rise	6616 Apr 18 09:16	14°♈58'45					
retrograde	6616 Jul 16 10:13	16°♈54'37		conjunction	6623 Apr 18 23:34	29°♈53'12	-0°34'38
opposition	6616 Oct 04 10:43	15°♈31'03	-0°17'40	minimum elong	6623 Apr 18 23:34	29°♈53'12	0°34'40
min. Earth dist.	6616 Oct 04 08:14	15°♈31'13	29.08292 AU	max. Earth dist.	6623 Apr 19 06:24	29°♈53'50	31.02262 AU
direct	6616 Dec 23 07:20	14°♈07'29			6623 Apr 21 23:07	0°♋	
evening set	6617 Mar 21 01:48	16°♈01'36		morning rise	6623 May 04 09:41	0°♋28'05	

retrograde	6623 Aug 01 23:12	2°8'25"02	direct	6630 Jan 21 16:33	12°8'58"42
opposition	6623 Oct 21 06:51	1°8'01"11 -0°38'25	evening set	6630 Apr 18 16:34	14°8'52"27
min. Earth dist.	6623 Oct 20 22:59	1°8'01"43 29.01772 AU		6630 Apr 22 01:41	15°8'
	6623 Dec 02 04:34	30°8'8"00			
direct	6624 Jan 08 13:21	29°8'37"55	conjunction	6630 May 04 02:18	15°8'27"18 -0°51'42
	6624 Feb 13 22:52	0°8'	minimum elong	6630 May 04 02:18	15°8'27"18 0°51'44
evening set	6624 Apr 05 01:23	1°8'31"57	max. Earth dist.	6630 May 04 13:26	15°8'28"22 30.94024 AU
			morning rise	6630 May 19 14:09	16°8'02"22
conjunction	6624 Apr 20 10:13	2°8'06"42 -0°37'15	retrograde	6630 Aug 17 15:58	17°8'59"59
minimum elong	6624 Apr 20 10:13	2°8'06"42 0°37'16	opposition	6630 Nov 06 03:33	16°8'35"29 -0°56'27
max. Earth dist.	6624 Apr 20 17:29	2°8'07"24 31.01220 AU	min. Earth dist.	6630 Nov 05 15:18	16°8'36"19 28.93584 AU
morning rise	6624 May 05 20:31	2°8'41"38	direct	6631 Jan 24 03:24	15°8'12"04
retrograde	6624 Aug 03 12:07	4°8'38"42	evening set	6631 Apr 21 03:09	17°8'05"48
opposition	6624 Oct 22 20:21	3°8'14"47 -0°41'12			
min. Earth dist.	6624 Oct 22 13:04	3°8'15"17 29.00678 AU	conjunction	6631 May 06 13:09	17°8'40"41 -0°53'52
direct	6625 Jan 10 01:32	1°8'51"31	minimum elong	6631 May 06 13:09	17°8'40"41 0°53'55
evening set	6625 Apr 07 11:49	3°8'45"31	max. Earth dist.	6631 May 07 01:51	17°8'41"53 30.93101 AU
			morning rise	6631 May 22 01:10	18°8'15"46
conjunction	6625 Apr 22 20:52	4°8'20"17 -0°39'49	retrograde	6631 Aug 20 03:11	20°8'13"30
minimum elong	6625 Apr 22 20:51	4°8'20"17 0°39'51	opposition	6631 Nov 08 16:43	18°8'48"57 -0°58'43
max. Earth dist.	6625 Apr 23 04:56	4°8'21"03 31.00071 AU	min. Earth dist.	6631 Nov 08 04:21	18°8'49"48 28.92727 AU
morning rise	6625 May 08 07:20	4°8'55"14	direct	6632 Jan 26 14:28	17°8'25"34
retrograde	6625 Aug 06 02:10	6°8'52"24	evening set	6632 Apr 22 13:52	19°8'19"17
opposition	6625 Oct 25 09:39	5°8'28"24 -0°43'55			
min. Earth dist.	6625 Oct 25 00:57	5°8'28"59 28.99467 AU	conjunction	6632 May 08 00:03	19°8'54"11 -0°55'57
direct	6626 Jan 12 14:46	4°8'05"06	minimum elong	6632 May 08 00:03	19°8'54"11 0°55'59
evening set	6626 Apr 09 22:28	5°8'59"03	max. Earth dist.	6632 May 08 13:10	19°8'55"26 30.92313 AU
			morning rise	6632 May 23 12:24	20°8'29"19
conjunction	6626 Apr 25 07:32	6°8'33"51 -0°42'20	retrograde	6632 Aug 21 17:01	22°8'27"10
minimum elong	6626 Apr 25 07:32	6°8'33"51 0°42'21	opposition	6632 Nov 10 05:52	21°8'02"35 -1°00'54
max. Earth dist.	6626 Apr 25 15:27	6°8'34"36 30.98813 AU	min. Earth dist.	6632 Nov 09 15:46	21°8'03"34 28.91991 AU
morning rise	6626 May 10 18:23	7°8'08"49	direct	6633 Jan 28 01:11	19°8'39"14
retrograde	6626 Aug 08 14:47	9°8'06"05	evening set	6633 Apr 25 00:35	21°8'32"58
opposition	6626 Oct 27 22:53	7°8'41"57 -0°46'34			
min. Earth dist.	6626 Oct 27 14:37	7°8'42"31 28.98186 AU	conjunction	6633 May 10 10:59	22°8'07"53 -0°57'57
direct	6627 Jan 15 01:56	6°8'18"37	minimum elong	6633 May 10 10:58	22°8'07"53 0°58'00
evening set	6627 Apr 12 08:57	8°8'12"31	max. Earth dist.	6633 May 11 00:52	22°8'09"12 30.91609 AU
			morning rise	6633 May 25 23:40	22°8'43"03
conjunction	6627 Apr 27 18:19	8°8'47"19 -0°44'46	retrograde	6633 Aug 24 05:45	24°8'41"01
minimum elong	6627 Apr 27 18:19	8°8'47"19 0°44'49	opposition	6633 Nov 12 19:10	23°8'16"26 -1°03'00
max. Earth dist.	6627 Apr 28 03:45	8°8'48"13 30.97516 AU	min. Earth dist.	6633 Nov 12 05:28	23°8'17"22 28.91325 AU
morning rise	6627 May 13 05:15	9°8'22"18	direct	6634 Jan 30 12:17	21°8'53"07
retrograde	6627 Aug 11 02:44	11°8'19"38	evening set	6634 Apr 27 11:31	23°8'46"52
opposition	6627 Oct 30 12:03	9°8'55"24 -0°49'09			
min. Earth dist.	6627 Oct 30 02:27	9°8'56"04 28.96891 AU	conjunction	6634 May 12 22:14	24°8'21"48 -0°59'52
direct	6628 Jan 17 15:55	8°8'32"02	minimum elong	6634 May 12 22:14	24°8'21"48 0°59'54
evening set	6628 Apr 13 19:27	10°8'25"52	max. Earth dist.	6634 May 13 13:05	24°8'23"13 30.90967 AU
			morning rise	6634 May 28 11:09	24°8'57"00
conjunction	6628 Apr 29 04:47	11°8'00"41 -0°47'09	retrograde	6634 Aug 26 19:56	26°8'55"06
minimum elong	6628 Apr 29 04:47	11°8'00"41 0°47'11	opposition	6634 Nov 15 08:09	25°8'30"30 -1°05'00
max. Earth dist.	6628 Apr 29 13:59	11°8'01"34 30.96244 AU	min. Earth dist.	6634 Nov 14 17:04	25°8'31"32 28.90687 AU
morning rise	6628 May 14 16:07	11°8'35"42	direct	6635 Feb 02 00:16	24°8'07"13
retrograde	6628 Aug 12 16:21	13°8'33"07	evening set	6635 Apr 29 22:42	26°8'01"00
opposition	6628 Nov 01 01:19	12°8'08"47 -0°51'40			
min. Earth dist.	6628 Oct 31 15:08	12°8'09"28 28.95671 AU	conjunction	6635 May 15 09:30	26°8'35"58 -1°01'42
direct	6629 Jan 19 03:48	10°8'45"23	minimum elong	6635 May 15 09:30	26°8'35"58 1°01'45
evening set	6629 Apr 16 05:57	12°8'39"10	max. Earth dist.	6635 May 16 00:08	26°8'37"21 30.90316 AU
			morning rise	6635 May 30 22:51	27°8'11"11
conjunction	6629 May 01 15:37	13°8'14"00 -0°49'28	retrograde	6635 Aug 29 09:42	29°8'09"25
minimum elong	6629 May 01 15:37	13°8'14"00 0°49'31	opposition	6635 Nov 17 21:30	27°8'44"48 -1°06'55
max. Earth dist.	6629 May 02 02:46	13°8'15"03 30.95068 AU	min. Earth dist.	6635 Nov 17 07:00	27°8'45"48 28.90029 AU
morning rise	6629 May 17 03:02	13°8'49"02	direct	6636 Feb 04 10:44	26°8'21"34
	6629 Jun 22 00:11	15°8'	evening set	6636 May 01 09:44	28°8'15"21
retrograde	6629 Aug 15 03:17	15°8'46"33			
	6629 Oct 10 17:16	15°8'8"00	conjunction	6636 May 16 20:56	28°8'50"21 -1°03'26
opposition	6629 Nov 03 14:27	14°8'22"07 -0°54'06	minimum elong	6636 May 16 20:56	28°8'50"21 1°03'28
min. Earth dist.	6629 Nov 03 03:27	14°8'22"52 28.94557 AU	max. Earth dist.	6636 May 17 12:50	28°8'51"51 30.89625 AU

morning rise	6636 Jun 01 10:27	29° 8 25'36	direct	6643 Feb 19 23:51	12° II 03'29
	6636 Jun 17 12:25	0° II	evening set	6643 May 17 17:18	13° II 57'08
retrograde	6636 Aug 30 23:28	1° II 23'56			
opposition	6636 Nov 19 10:47	29° 8 59'18 -1°08'43	conjunction	6643 Jun 02 06:40	14° II 32'18 -1°12'47
min. Earth dist.	6636 Nov 18 19:19	0° II 00'22 28.89294 AU	minimum elong	6643 Jun 02 06:40	14° II 32'18 1°12'50
	6636 Nov 19 00:37	30° 8 8	max. Earth dist.	6643 Jun 03 01:22	14° II 34'04 30.83931 AU
direct	6637 Feb 06 00:34	28° 8 36'05	morning rise	6643 Jun 17 22:47	15° II 07'45
	6637 Apr 19 23:25	0° II	retrograde	6643 Sep 16 17:34	17° II 06'28
evening set	6637 May 03 21:10	0° II 29'52	min. Earth dist.	6643 Dec 05 11:29	15° II 42'44 28.83749 AU
			opposition	6643 Dec 06 06:09	15° II 41'26 -1°18'20
conjunction	6637 May 19 08:29	1° II 04'53 -1°05'04	direct	6644 Feb 22 11:05	14° II 18'04
minimum elong	6637 May 19 08:28	1° II 04'53 1°05'08	evening set	6644 May 19 04:48	16° II 11'43
max. Earth dist.	6637 May 19 23:29	1° II 06'19 30.88844 AU			
morning rise	6637 Jun 03 22:30	1° II 40'11	conjunction	6644 Jun 03 18:23	16° II 46'54 -1°13'41
retrograde	6637 Sep 02 14:43	3° II 38'36	minimum elong	6644 Jun 03 18:23	16° II 46'54 1°13'44
min. Earth dist.	6637 Nov 21 08:43	2° II 14'58 28.88475 AU	max. Earth dist.	6644 Jun 04 13:04	16° II 48'40 30.83470 AU
opposition	6637 Nov 22 00:02	2° II 13'55 -1°10'25	morning rise	6644 Jun 19 11:01	17° II 22'23
direct	6638 Feb 08 12:33	0° II 50'41	retrograde	6644 Sep 18 07:06	19° II 21'10
evening set	6638 May 06 08:26	2° II 44'27	opposition	6644 Dec 07 19:11	17° II 56'07 -1°19'15
			min. Earth dist.	6644 Dec 07 00:57	17° II 57'23 28.83362 AU
conjunction	6638 May 21 20:13	3° II 19'31 -1°06'37	direct	6645 Feb 23 21:17	16° II 32'44
minimum elong	6638 May 21 20:13	3° II 19'31 1°06'39	evening set	6645 May 21 16:21	18° II 26'24
max. Earth dist.	6638 May 22 12:29	3° II 21'04 30.87972 AU			
morning rise	6638 Jun 06 10:28	3° II 54'50	conjunction	6645 Jun 06 06:29	19° II 01'37 -1°14'29
retrograde	6638 Sep 05 02:21	5° II 53'19	minimum elong	6645 Jun 06 06:29	19° II 01'37 1°14'33
opposition	6638 Nov 24 13:14	4° II 28'34 -1°12'01	max. Earth dist.	6645 Jun 07 02:36	19° II 03'31 30.83143 AU
min. Earth dist.	6638 Nov 23 21:40	4° II 29'39 28.87560 AU	morning rise	6645 Jun 21 23:23	19° II 37'08
direct	6639 Feb 11 01:43	3° II 05'19	retrograde	6645 Sep 20 21:01	21° II 35'57
evening set	6639 May 08 19:47	4° II 59'03	opposition	6645 Dec 10 07:53	20° II 10'54 -1°20'02
			min. Earth dist.	6645 Dec 09 12:36	20° II 12'14 28.83081 AU
conjunction	6639 May 24 07:45	5° II 34'08 -1°08'03	direct	6646 Feb 26 10:40	18° II 47'32
minimum elong	6639 May 24 07:44	5° II 34'08 1°08'07	evening set	6646 May 24 04:13	20° II 41'13
max. Earth dist.	6639 May 24 23:28	5° II 35'37 30.87042 AU			
morning rise	6639 Jun 08 22:28	6° II 09'29	conjunction	6646 Jun 08 18:34	21° II 16'28 -1°15'10
retrograde	6639 Sep 07 15:43	8° II 08'01	minimum elong	6646 Jun 08 18:34	21° II 16'28 1°15'13
min. Earth dist.	6639 Nov 26 10:07	6° II 44'19 28.86629 AU	max. Earth dist.	6646 Jun 09 13:55	21° II 18'18 30.82905 AU
opposition	6639 Nov 27 02:20	6° II 43'12 -1°13'30	morning rise	6646 Jun 24 12:03	21° II 52'01
direct	6640 Feb 13 13:32	5° II 19'54	retrograde	6646 Sep 23 12:17	23° II 50'53
evening set	6640 May 10 07:06	7° II 13'37	opposition	6646 Dec 12 20:49	22° II 25'50 -1°20'42
			min. Earth dist.	6646 Dec 12 01:42	22° II 27'10 28.82878 AU
conjunction	6640 May 25 19:26	7° II 48'43 -1°09'23	direct	6647 Feb 28 21:57	21° II 02'30
minimum elong	6640 May 25 19:26	7° II 48'43 1°09'26	evening set	6647 May 26 15:58	22° II 56'12
max. Earth dist.	6640 May 26 12:24	7° II 50'19 30.86114 AU			
morning rise	6640 Jun 10 10:25	8° II 24'05	conjunction	6647 Jun 11 06:49	23° II 31'28 -1°15'44
retrograde	6640 Sep 09 03:31	10° II 22'40	minimum elong	6647 Jun 11 06:49	23° II 31'28 1°15'48
opposition	6640 Nov 28 15:28	8° II 57'46 -1°14'53	max. Earth dist.	6647 Jun 12 03:31	23° II 33'26 30.82707 AU
min. Earth dist.	6640 Nov 27 23:24	8° II 58'53 28.85735 AU	morning rise	6647 Jun 27 00:32	24° II 07'03
direct	6641 Feb 15 01:27	7° II 34'27	retrograde	6647 Sep 26 00:53	26° II 05'58
evening set	6641 May 12 18:24	9° II 28'07	opposition	6647 Dec 15 09:42	24° II 40'56 -1°21'15
			min. Earth dist.	6647 Dec 14 14:24	24° II 42'16 28.82678 AU
conjunction	6641 May 28 07:03	10° II 03'14 -1°10'38	direct	6648 Mar 02 10:37	23° II 17'37
minimum elong	6641 May 28 07:03	10° II 03'14 1°10'41	evening set	6648 May 28 04:06	25° II 11'20
max. Earth dist.	6641 May 29 00:12	10° II 04'52 30.85269 AU			
morning rise	6641 Jun 12 22:29	10° II 38'39	conjunction	6648 Jun 12 19:13	25° II 46'38 -1°16'11
retrograde	6641 Sep 11 16:54	12° II 37'16	minimum elong	6648 Jun 12 19:13	25° II 46'38 1°16'14
min. Earth dist.	6641 Nov 30 10:54	11° II 13'32 28.84944 AU	max. Earth dist.	6648 Jun 13 15:01	25° II 48'31 30.82503 AU
opposition	6641 Dec 01 04:25	11° II 12'19 -1°16'09	morning rise	6648 Jun 28 13:29	26° II 22'15
direct	6642 Feb 17 12:59	9° II 48'57	retrograde	6648 Sep 27 16:20	28° II 21'12
evening set	6642 May 15 05:53	11° II 42'37	opposition	6648 Dec 16 22:37	26° II 56'10 -1°21'40
			min. Earth dist.	6648 Dec 16 03:08	26° II 57'31 28.82453 AU
conjunction	6642 May 30 18:49	12° II 17'45 -1°11'45	direct	6649 Mar 04 22:48	25° II 32'51
minimum elong	6642 May 30 18:49	12° II 17'45 1°11'48	evening set	6649 May 30 16:13	27° II 26'34
max. Earth dist.	6642 May 31 12:32	12° II 19'26 30.84525 AU			
morning rise	6642 Jun 15 10:38	12° II 53'11	conjunction	6649 Jun 15 07:51	28° II 01'55 -1°16'31
retrograde	6642 Sep 14 04:09	14° II 51'52	minimum elong	6649 Jun 15 07:51	28° II 01'55 1°16'35
opposition	6642 Dec 03 17:18	13° II 26'51 -1°17'18	max. Earth dist.	6649 Jun 16 04:19	28° II 03'51 30.82225 AU
min. Earth dist.	6642 Dec 03 00:13	13° II 28'02 28.84275 AU	morning rise	6649 Jul 01 02:27	28° II 37'33

	6649 Aug 13 07:53	0°☾	evening set	6656 Jun 15 06:05	13°☾12'28	
retrograde	6649 Sep 30 05:14	0°☾36'32				
	6649 Nov 18 11:46	30°☾II	conjunction	6656 Jul 01 00:49	13°☾47'59 -1°15'36	
opposition	6649 Dec 19 11:34	29°☾II11'29 -1°21'58	minimum elong	6656 Jul 01 00:49	13°☾47'59 1°15'39	
min. Earth dist.	6649 Dec 18 16:52	29°☾II12'47 28.82125 AU	max. Earth dist.	6656 Jul 01 22:00	13°☾49'59 30.79615 AU	
direct	6650 Mar 07 11:28	27°☾II48'09	morning rise	6656 Jul 16 22:27	14°☾23'47	
evening set	6650 Jun 02 04:31	29°☾II41'52	retrograde	6656 Oct 16 00:47	16°☾22'40	
	6650 Jun 10 06:38	0°☾	min. Earth dist.	6657 Jan 03 07:55	14°☾58'46 28.79672 AU	
			opposition	6657 Jan 04 03:25	14°☾57'25 -1°20'32	
conjunction	6650 Jun 17 20:32	0°☾17'14 -1°16'44	direct	6657 Mar 22 21:33	13°☾33'49	
minimum elong	6650 Jun 17 20:32	0°☾17'14 1°16'47	evening set	6657 Jun 17 18:32	15°☾27'32	
max. Earth dist.	6650 Jun 18 16:19	0°☾19'06 30.81853 AU				
morning rise	6650 Jul 03 15:37	0°☾52'54	conjunction	6657 Jul 03 13:38	16°☾03'05 -1°15'00	
retrograde	6650 Oct 02 19:02	2°☾51'52	minimum elong	6657 Jul 03 13:38	16°☾03'05 1°15'04	
min. Earth dist.	6650 Dec 21 04:53	1°☾28'08 28.81702 AU	max. Earth dist.	6657 Jul 04 09:59	16°☾05'00 30.79621 AU	
opposition	6650 Dec 22 00:15	1°☾26'47 -1°22'08	morning rise	6657 Jul 19 11:53	16°☾38'55	
direct	6651 Mar 09 23:40	0°☾03'25	retrograde	6657 Oct 18 16:38	18°☾37'47	
evening set	6651 Jun 04 16:48	1°☾57'08	opposition	6658 Jan 06 15:43	17°☾12'33 -1°19'50	
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minimum elong	6651 Jun 20 09:13	2°☾32'31 1°16'54	evening set	6658 Jun 20 07:02	17°☾42'43	
max. Earth dist.	6651 Jun 21 04:56	2°☾34'23 30.81386 AU				
morning rise	6651 Jul 06 04:44	3°☾08'13	conjunction	6658 Jul 06 02:38	18°☾18'18 -1°14'17	
retrograde	6651 Oct 05 06:36	5°☾07'10	minimum elong	6658 Jul 06 02:38	18°☾18'18 1°14'20	
opposition	6651 Dec 24 13:07	3°☾42'03 -1°22'11	max. Earth dist.	6658 Jul 06 23:57	18°☾20'18 30.79740 AU	
min. Earth dist.	6651 Dec 23 18:45	3°☾43'20 28.81213 AU	morning rise	6658 Jul 22 01:11	18°☾54'10	
direct	6652 Mar 11 10:59	2°☾18'38	retrograde	6658 Oct 21 05:30	20°☾53'00	
evening set	6652 Jun 06 04:52	4°☾12'19	min. Earth dist.	6659 Jan 08 08:46	19°☾29'09 28.79907 AU	
			opposition	6659 Jan 09 03:57	19°☾27'49 -1°19'00	
conjunction	6652 Jun 21 21:49	4°☾47'44 -1°16'49	direct	6659 Mar 27 22:31	18°☾04'14	
minimum elong	6652 Jun 21 21:49	4°☾47'44 1°16'52	evening set	6659 Jun 22 19:39	19°☾58'01	
max. Earth dist.	6652 Jun 22 17:57	4°☾49'38 30.80898 AU				
morning rise	6652 Jul 07 17:45	5°☾23'26	conjunction	6659 Jul 08 15:41	20°☾33'38 -1°13'27	
retrograde	6652 Oct 06 20:05	7°☾22'23	minimum elong	6659 Jul 08 15:41	20°☾33'38 1°13'31	
min. Earth dist.	6652 Dec 25 06:19	5°☾58'34 28.80723 AU	max. Earth dist.	6659 Jul 09 12:25	20°☾35'36 30.79958 AU	
opposition	6652 Dec 26 01:43	5°☾57'13 -1°22'06	morning rise	6659 Jul 24 14:44	21°☾09'32	
direct	6653 Mar 13 22:47	4°☾33'44	retrograde	6659 Oct 23 19:56	23°☾08'21	
evening set	6653 Jun 08 17:15	6°☾27'25	opposition	6660 Jan 11 16:08	21°☾43'13 -1°18'03	
			min. Earth dist.	6660 Jan 10 20:18	21°☾44'36 28.80148 AU	
conjunction	6653 Jun 24 10:31	7°☾02'51 -1°16'41	direct	6660 Mar 29 10:27	20°☾19'38	
minimum elong	6653 Jun 24 10:31	7°☾02'51 1°16'45	evening set	6660 Jun 24 08:19	22°☾13'28	
max. Earth dist.	6653 Jun 25 06:10	7°☾04'42 30.80423 AU				
morning rise	6653 Jul 10 07:00	7°☾38'35	conjunction	6660 Jul 10 04:47	22°☾49'07 -1°12'31	
retrograde	6653 Oct 09 08:37	9°☾37'30	minimum elong	6660 Jul 10 04:47	22°☾49'07 1°12'33	
opposition	6653 Dec 28 14:14	8°☾12'18 -1°21'54	max. Earth dist.	6660 Jul 11 01:30	22°☾51'04 30.80201 AU	
min. Earth dist.	6653 Dec 27 19:46	8°☾13'35 28.80290 AU	morning rise	6660 Jul 26 04:16	23°☾25'02	
direct	6654 Mar 16 09:14	6°☾48'46	retrograde	6660 Oct 25 08:29	25°☾23'51	
evening set	6654 Jun 11 05:29	8°☾42'27	min. Earth dist.	6661 Jan 12 09:54	24°☾00'02 28.80385 AU	
			opposition	6661 Jan 13 04:27	23°☾58'44 -1°16'59	
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minimum elong	6654 Jun 26 23:21	9°☾17'54 1°16'29	evening set	6661 Jun 26 21:16	24°☾29'02	
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morning rise	6654 Jul 12 20:07	9°☾53'40	conjunction	6661 Jul 12 18:17	25°☾04'42 -1°11'27	
retrograde	6654 Oct 11 21:42	11°☾52'34	minimum elong	6661 Jul 12 18:17	25°☾04'42 1°11'31	
min. Earth dist.	6654 Dec 30 07:15	10°☾28'41 28.79949 AU	max. Earth dist.	6661 Jul 13 14:43	25°☾06'38 30.80422 AU	
opposition	6654 Dec 31 02:38	10°☾27'19 -1°21'34	morning rise	6661 Jul 28 18:08	25°☾40'39	
direct	6655 Mar 18 22:23	9°☾03'45	retrograde	6661 Oct 27 23:01	27°☾39'25	
evening set	6655 Jun 13 17:47	10°☾57'27	opposition	6662 Jan 15 16:28	26°☾14'20 -1°15'48	
			min. Earth dist.	6662 Jan 14 21:25	26°☾15'40 28.80565 AU	
conjunction	6655 Jun 29 11:54	11°☾32'56 -1°16'05	direct	6662 Apr 03 09:39	24°☾50'45	
minimum elong	6655 Jun 29 11:54	11°☾32'56 1°16'09	evening set	6662 Jun 29 10:22	26°☾44'38	
max. Earth dist.	6655 Jun 30 07:48	11°☾34'49 30.79754 AU				
morning rise	6655 Jul 15 09:16	12°☾08'43	conjunction	6662 Jul 15 07:43	27°☾20'19 -1°10'18	
retrograde	6655 Oct 14 11:58	14°☾07'36	minimum elong	6662 Jul 15 07:43	27°☾20'19 1°10'20	
opposition	6656 Jan 02 15:07	12°☾42'21 -1°21'07	max. Earth dist.	6662 Jul 16 03:04	27°☾22'09 30.80554 AU	
min. Earth dist.	6656 Jan 01 19:57	12°☾43'41 28.79744 AU	morning rise	6662 Jul 31 08:04	27°☾56'18	
direct	6656 Mar 20 09:15	11°☾18'45	retrograde	6662 Oct 30 10:26	29°☾55'00	




























































































































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opposition	6663 Jan 18 04:44	28° Ω 29'55	-1°14'30	minimum elong	6669 Jul 31 05:42	13° Ω 05'48	0°59'22
direct	6663 Apr 05 20:25	27° Ω 06'18		max. Earth dist.	6669 Jul 31 23:34	13° Ω 07'29	30.81530 AU
evening set	6663 Jul 01 23:10	29° Ω 00'10		morning rise	6669 Aug 16 08:46	13° Ω 41'52	
					6669 Sep 26 04:13	15° Ω	
conjunction	6663 Jul 17 21:08	29° Ω 35'53	-1°09'01	retrograde	6669 Nov 15 05:13	15° Ω 39'52	
minimum elong	6663 Jul 17 21:08	29° Ω 35'53	1°09'05		6670 Jan 05 09:10	15° Ω	
max. Earth dist.	6663 Jul 18 16:53	29° Ω 37'44	30.80611 AU	opposition	6670 Feb 02 14:57	14° Ω 14'44	-1°02'24
	6663 Jul 28 13:38	0° Ω		min. Earth dist.	6670 Feb 01 23:10	14° Ω 15'51	28.81856 AU
morning rise	6663 Aug 02 21:47	0° Ω 11'52		direct	6670 Apr 21 09:07	12° Ω 50'44	
retrograde	6663 Nov 01 22:33	2° Ω 10'29		evening set	6670 Jul 17 18:08	14° Ω 44'37	
opposition	6664 Jan 20 16:47	0° Ω 45'23	-1°13'05		6670 Jul 24 16:48	15° Ω	
min. Earth dist.	6664 Jan 19 22:52	0° Ω 46'39	28.80669 AU				
	6664 Feb 18 03:08	30° Ω		conjunction	6670 Aug 02 19:13	15° Ω 20'28	-0°57'23
direct	6664 Apr 07 09:14	29° Ω 21'42		minimum elong	6670 Aug 02 19:13	15° Ω 20'28	0°57'25
	6664 May 25 04:45	0° Ω		max. Earth dist.	6670 Aug 03 12:58	15° Ω 22'08	30.82127 AU
evening set	6664 Jul 03 12:15	1° Ω 15'34		morning rise	6670 Aug 18 22:37	15° Ω 56'32	
				retrograde	6670 Nov 17 19:23	17° Ω 54'28	
conjunction	6664 Jul 19 10:32	1° Ω 51'18	-1°07'39	min. Earth dist.	6671 Feb 04 09:47	16° Ω 30'34	28.82513 AU
minimum elong	6664 Jul 19 10:32	1° Ω 51'18	1°07'42	opposition	6671 Feb 05 02:24	16° Ω 29'24	-1°00'16
max. Earth dist.	6664 Jul 20 04:48	1° Ω 53'01	30.80609 AU	direct	6671 Apr 23 21:16	15° Ω 05'24	
morning rise	6664 Aug 04 11:46	2° Ω 27'17		evening set	6671 Jul 20 07:11	16° Ω 59'19	
retrograde	6664 Nov 03 11:50	4° Ω 25'49					
min. Earth dist.	6665 Jan 21 11:44	3° Ω 01'53	28.80665 AU	conjunction	6671 Aug 05 08:34	17° Ω 35'11	-0°55'21
opposition	6665 Jan 22 04:44	3° Ω 00'42	-1°11'33	minimum elong	6671 Aug 05 08:34	17° Ω 35'11	0°55'23
direct	6665 Apr 09 19:30	1° Ω 36'55		max. Earth dist.	6671 Aug 06 01:43	17° Ω 36'47	30.82844 AU
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				retrograde	6671 Nov 20 06:57	20° Ω 09'09	
conjunction	6665 Jul 22 00:05	4° Ω 06'31	-1°06'11	opposition	6672 Feb 07 13:59	18° Ω 44'09	-0°58'02
minimum elong	6665 Jul 22 00:05	4° Ω 06'31	1°06'14	min. Earth dist.	6672 Feb 06 22:40	18° Ω 45'14	28.83282 AU
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morning rise	6665 Aug 07 01:35	4° Ω 42'32		evening set	6672 Jul 21 20:22	19° Ω 14'09	
retrograde	6665 Nov 05 23:53	6° Ω 40'57					
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direct	6666 Apr 12 08:24	3° Ω 51'57		max. Earth dist.	6672 Aug 07 15:50	19° Ω 51'40	30.83653 AU
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conjunction	6666 Jul 24 13:24	6° Ω 21'33	-1°04'37	min. Earth dist.	6673 Feb 08 09:47	21° Ω 00'07	28.84096 AU
minimum elong	6666 Jul 24 13:24	6° Ω 21'33	1°04'38	opposition	6673 Feb 09 01:15	20° Ω 59'02	-0°55'43
max. Earth dist.	6666 Jul 25 07:08	6° Ω 23'13	30.80658 AU	direct	6673 Apr 27 19:24	19° Ω 35'04	
morning rise	6666 Aug 09 15:25	6° Ω 57'34		evening set	6673 Jul 24 09:53	21° Ω 29'06	
retrograde	6666 Nov 08 14:16	8° Ω 55'53					
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evening set	6667 Jul 11 03:06	8° Ω 00'38		morning rise	6673 Aug 25 16:34	22° Ω 41'08	
				retrograde	6673 Nov 24 08:41	24° Ω 38'52	
conjunction	6667 Jul 27 02:51	8° Ω 36'25	-1°02'57	opposition	6674 Feb 11 12:45	23° Ω 14'02	-0°53'19
minimum elong	6667 Jul 27 02:51	8° Ω 36'25	1°02'59	min. Earth dist.	6674 Feb 10 22:29	23° Ω 15'02	28.84895 AU
max. Earth dist.	6667 Jul 27 21:24	8° Ω 38'09	30.80805 AU	direct	6674 Apr 30 04:51	21° Ω 50'05	
morning rise	6667 Aug 12 05:07	9° Ω 12'26		evening set	6674 Jul 26 23:14	23° Ω 44'10	
retrograde	6667 Nov 11 02:07	11° Ω 10'39					
opposition	6668 Jan 29 15:54	9° Ω 45'28	-1°06'22	conjunction	6674 Aug 12 01:56	24° Ω 20'05	-0°48'44
min. Earth dist.	6668 Jan 28 23:41	9° Ω 46'36	28.80983 AU	minimum elong	6674 Aug 12 01:56	24° Ω 20'05	0°48'45
direct	6668 Apr 16 09:10	8° Ω 21'30		max. Earth dist.	6674 Aug 12 18:00	24° Ω 21'35	30.85225 AU
evening set	6668 Jul 12 16:00	10° Ω 15'20		morning rise	6674 Aug 28 06:31	24° Ω 56'13	
				retrograde	6674 Nov 26 20:17	26° Ω 53'52	
conjunction	6668 Jul 28 16:10	10° Ω 51'08	-1°01'11	min. Earth dist.	6675 Feb 13 10:20	25° Ω 30'04	28.85606 AU
minimum elong	6668 Jul 28 16:11	10° Ω 51'08	1°01'13	opposition	6675 Feb 14 00:06	25° Ω 29'06	-0°50'50
max. Earth dist.	6668 Jul 29 09:59	10° Ω 52'49	30.81099 AU	direct	6675 May 02 17:18	24° Ω 05'08	
morning rise	6668 Aug 13 18:56	11° Ω 27'11		evening set	6675 Jul 29 12:47	25° Ω 59'15	
retrograde	6668 Nov 12 16:38	13° Ω 25'18					
min. Earth dist.	6669 Jan 30 10:36	12° Ω 01'19	28.81346 AU	conjunction	6675 Aug 14 15:43	26° Ω 35'11	-0°46'23
opposition	6669 Jan 31 03:28	12° Ω 00'07	-1°04'26	minimum elong	6675 Aug 14 15:43	26° Ω 35'11	0°46'25
direct	6669 Apr 18 21:26	10° Ω 36'07		max. Earth dist.	6675 Aug 15 05:48	26° Ω 36'30	30.85905 AU
evening set	6669 Jul 15 05:05	12° Ω 29'59		morning rise	6675 Aug 30 20:45	27° Ω 11'19	

retrograde	6675 Nov 29 10:08	29°08'52		evening set	6682 Aug 14 10:41	11°04'07	
opposition	6676 Feb 16 11:26	27°04'08	-0°48'17				
min. Earth dist.	6676 Feb 15 22:16	27°04'50	28.86245 AU	conjunction	6682 Aug 30 15:49	12°00'17	-0°28'14
direct	6676 May 04 05:09	26°02'07		minimum elong	6682 Aug 30 15:49	12°00'17	0°28'15
evening set	6676 Jul 31 02:12	28°01'16		max. Earth dist.	6682 Aug 31 01:52	12°00'18	30.90654 AU
				morning rise	6682 Sep 15 22:20	12°00'53	13
conjunction	6676 Aug 16 05:38	28°05'13	-0°43'58	retrograde	6682 Dec 15 01:20	14°00'49	48
minimum elong	6676 Aug 16 05:38	28°05'13	0°43'59	opposition	6683 Mar 03 16:16	13°00'25	-0°28'40
max. Earth dist.	6676 Aug 16 19:54	28°05'13	30.86503 AU	min. Earth dist.	6683 Mar 03 07:02	13°00'25	28.91195 AU
morning rise	6676 Sep 01 10:49	29°02'21		direct	6683 May 20 16:38	12°00'00	58
	6676 Sep 17 10:18	0°00		evening set	6683 Aug 17 00:00	13°00'55	11
retrograde	6676 Nov 30 21:34	1°00'23	46				
opposition	6677 Feb 17 22:43	29°05'03	-0°45'40	conjunction	6683 Sep 02 05:34	14°00'31	-0°25'27
min. Earth dist.	6677 Feb 17 10:48	29°05'54	28.86805 AU	minimum elong	6683 Sep 02 05:34	14°00'31	0°25'28
	6677 Feb 17 09:20	30°00'00		max. Earth dist.	6683 Sep 02 16:11	14°00'32	30.91736 AU
direct	6677 May 06 17:22	28°03'50		morning rise	6683 Sep 18 12:04	15°00'07	17
	6677 Jul 19 20:56	0°00		retrograde	6683 Dec 17 11:43	17°00'03	44
evening set	6677 Aug 02 15:44	0°00'29	09	opposition	6684 Mar 05 02:58	15°00'39	-0°25'40
				min. Earth dist.	6684 Mar 04 18:01	15°00'39	28.92322 AU
conjunction	6677 Aug 18 19:27	1°00'05	-0°41'28	direct	6684 May 22 04:51	14°00'15	00
minimum elong	6677 Aug 18 19:27	1°00'05	0°41'30	evening set	6684 Aug 18 13:34	16°00'09	16
max. Earth dist.	6677 Aug 19 08:13	1°00'06	30.87058 AU				
morning rise	6677 Sep 04 00:59	1°00'41	15	conjunction	6684 Sep 03 19:13	16°00'45	-0°22'37
retrograde	6677 Dec 03 11:46	3°00'38	31	minimum elong	6684 Sep 03 19:13	16°00'45	0°22'37
opposition	6678 Feb 20 09:41	2°00'13	-0°42'58	max. Earth dist.	6684 Sep 04 04:04	16°00'46	30.92914 AU
min. Earth dist.	6678 Feb 19 21:42	2°00'14	28.87351 AU	morning rise	6684 Sep 20 02:01	17°00'21	22
direct	6678 May 09 05:57	0°00'49	43	retrograde	6684 Dec 19 00:22	19°00'17	42
evening set	6678 Aug 05 05:12	2°00'43	53	opposition	6685 Mar 07 13:43	17°00'53	-0°22'37
				min. Earth dist.	6685 Mar 07 05:16	17°00'53	28.93523 AU
conjunction	6678 Aug 21 09:16	3°00'19	-0°38'56	direct	6685 May 24 15:16	16°00'29	04
minimum elong	6678 Aug 21 09:16	3°00'19	0°38'57	evening set	6685 Aug 21 03:09	18°00'23	23
max. Earth dist.	6678 Aug 21 21:48	3°00'21	30.87605 AU				
morning rise	6678 Sep 06 14:57	3°00'55	58	conjunction	6685 Sep 06 09:07	18°00'59	-0°19'45
retrograde	6678 Dec 06 00:15	5°00'53	07	minimum elong	6685 Sep 06 09:07	18°00'59	0°19'45
opposition	6679 Feb 22 20:50	4°00'28	-0°40'13	max. Earth dist.	6685 Sep 06 18:12	19°00'00	30.94111 AU
min. Earth dist.	6679 Feb 22 10:16	4°00'29	28.87918 AU	morning rise	6685 Sep 22 15:49	19°00'35	29
direct	6679 May 11 18:39	3°00'04	16	retrograde	6685 Dec 21 11:27	21°00'31	43
evening set	6679 Aug 07 18:26	4°00'58	25	opposition	6686 Mar 10 00:26	20°00'07	-0°19'32
				min. Earth dist.	6686 Mar 09 17:23	20°00'07	28.94704 AU
conjunction	6679 Aug 23 22:51	5°00'34	-0°36'20	direct	6686 May 27 02:23	18°00'43	11
minimum elong	6679 Aug 23 22:51	5°00'34	0°36'21	evening set	6686 Aug 23 16:52	20°00'37	33
max. Earth dist.	6679 Aug 24 10:49	5°00'35	30.88214 AU				
morning rise	6679 Sep 09 04:47	6°00'10	31	conjunction	6686 Sep 08 22:54	21°00'13	-0°16'51
retrograde	6679 Dec 08 13:34	8°00'07	31	minimum elong	6686 Sep 08 22:54	21°00'13	0°16'52
opposition	6680 Feb 25 07:44	6°00'42	-0°37'25	max. Earth dist.	6686 Sep 09 06:12	21°00'14	30.95273 AU
min. Earth dist.	6680 Feb 24 20:36	6°00'43	28.88560 AU	morning rise	6686 Sep 25 05:48	21°00'49	38
direct	6680 May 13 07:57	5°00'18	37	retrograde	6686 Dec 24 00:57	22°00'45	46
evening set	6680 Aug 09 07:55	7°00'12	47	opposition	6687 Mar 12 11:10	22°00'21	-0°16'26
				min. Earth dist.	6687 Mar 12 04:14	22°00'22	28.95824 AU
conjunction	6680 Aug 25 12:33	7°00'48	-0°33'41	direct	6687 May 29 14:41	20°00'57	17
minimum elong	6680 Aug 25 12:33	7°00'48	0°33'42	evening set	6687 Aug 26 06:25	22°00'51	42
max. Earth dist.	6680 Aug 25 23:43	7°00'49	30.88899 AU				
morning rise	6680 Sep 10 18:44	8°00'24	53	conjunction	6687 Sep 11 12:42	23°00'27	-0°13'57
retrograde	6680 Dec 10 00:53	10°00'21	44	minimum elong	6687 Sep 11 12:42	23°00'27	0°13'57
opposition	6681 Feb 26 18:37	8°00'57	-0°34'33	behind sun begin	6687 Sep 11 09:30	23°00'27	25
min. Earth dist.	6681 Feb 26 08:54	8°00'57	28.89308 AU	behind sun end	6687 Sep 11 15:53	23°00'27	59
direct	6681 May 15 18:38	7°00'32	50	max. Earth dist.	6687 Sep 11 19:27	23°00'28	30.96332 AU
evening set	6681 Aug 11 21:17	9°00'27	00	morning rise	6687 Sep 27 19:34	24°00'03	46
				retrograde	6687 Dec 26 12:42	25°00'59	46
conjunction	6681 Aug 28 02:20	10°00'02	-0°30'59	opposition	6688 Mar 13 22:02	24°00'35	-0°13'18
minimum elong	6681 Aug 28 02:20	10°00'02	0°31'00	min. Earth dist.	6688 Mar 13 16:57	24°00'35	28.96826 AU
max. Earth dist.	6681 Aug 28 13:44	10°00'04	30.89714 AU	direct	6688 May 31 03:09	23°00'11	20
morning rise	6681 Sep 13 08:35	10°00'39	06	evening set	6688 Aug 27 20:08	25°00'05	46
retrograde	6681 Dec 12 13:30	12°00'35	48				
opposition	6682 Mar 01 05:24	11°00'11	-0°31'38	conjunction	6688 Sep 13 02:36	25°00'41	-0°11'01
min. Earth dist.	6682 Feb 28 19:19	11°00'11	28.90179 AU	minimum elong	6688 Sep 13 02:35	25°00'41	0°11'01
direct	6682 May 18 07:03	9°00'46	56	behind sun begin	6688 Sep 12 21:43	25°00'41	20

behind sun end	6688 Sep 13 07:28	25° 17 42'12		max. Earth dist.	6693 Sep 24 23:10	6° 49 '40	31.01352 AU
max. Earth dist.	6688 Sep 13 08:00	25° 17 42'15	30.97286 AU	morning rise	6693 Oct 11 05:14	7° 49 '25'35	
morning rise	6688 Sep 29 09:32	26° 17 17'49		retrograde	6694 Jan 08 09:56	9° 49 '20'42	
retrograde	6688 Dec 28 01:45	28° 17 13'40		opposition	6694 Mar 27 12:39	7° 49 '56'47	0°05'37
opposition	6689 Mar 16 08:32	26° 17 49'34	-0°10'09	min. Earth dist.	6694 Mar 27 11:14	7° 49 '56'53	29.01829 AU
min. Earth dist.	6689 Mar 16 03:25	26° 17 49'56	28.97719 AU	direct	6694 Jun 14 01:43	6° 49 '32'13	
direct	6689 Jun 02 16:35	25° 17 25'14		evening set	6694 Sep 11 04:54	8° 49 '26'46	
evening set	6689 Aug 30 09:52	27° 17 19'42					
conjunction	6689 Sep 15 16:23	27° 17 55'41	-0°08'05	conjunction	6694 Sep 27 11:50	9° 49 '02'43	0°06'47
minimum elong	6689 Sep 15 16:23	27° 17 55'41	0°08'05	minimum elong	6694 Sep 27 11:50	9° 49 '02'43	0°06'48
behind sun begin	6689 Sep 15 10:32	27° 17 55'10		behind sun begin	6694 Sep 27 05:42	9° 49 '02'10	
behind sun end	6689 Sep 15 22:14	27° 17 56'13		behind sun end	6694 Sep 27 17:58	9° 49 '03'15	
max. Earth dist.	6689 Sep 15 20:30	27° 17 56'03	30.98129 AU	max. Earth dist.	6694 Sep 27 13:08	9° 49 '02'49	31.02326 AU
morning rise	6689 Oct 01 23:20	28° 17 31'44		morning rise	6694 Oct 13 18:23	9° 49 '38'40	
	6689 Nov 19 14:57	0° 49 '		retrograde	6695 Jan 10 19:53	11° 49 '33'39	
retrograde	6689 Dec 30 13:21	0° 49 '27'26		opposition	6695 Mar 29 22:59	10° 49 '09'47	0°08'46
	6690 Feb 10 01:24	30° 49 ' 17		min. Earth dist.	6695 Mar 29 22:33	10° 49 '09'49	29.02865 AU
opposition	6690 Mar 18 19:13	29° 49 '03'22	-0°07'00	direct	6695 Jun 16 12:03	8° 49 '45'13	
min. Earth dist.	6690 Mar 18 15:56	29° 49 '03'36	28.98532 AU	evening set	6695 Sep 13 18:10	10° 49 '39'48	
direct	6690 Jun 05 03:42	27° 49 '39'00		conjunction	6695 Sep 30 01:01	11° 49 '15'44	0°09'42
evening set	6690 Sep 01 23:14	29° 49 '33'28		minimum elong	6695 Sep 30 01:00	11° 49 '15'44	0°09'43
	6690 Sep 14 00:23	0° 49 '		behind sun begin	6695 Sep 29 19:38	11° 49 '15'15	
conjunction	6690 Sep 18 05:59	0° 49 '09'27	-0°05'09	behind sun end	6695 Sep 30 06:23	11° 49 '16'12	
minimum elong	6690 Sep 18 05:58	0° 49 '09'27	0°05'09	max. Earth dist.	6695 Sep 30 00:56	11° 49 '15'44	31.03435 AU
behind sun begin	6690 Sep 17 23:35	0° 49 '08'53		morning rise	6695 Oct 16 07:37	11° 49 '51'40	
behind sun end	6690 Sep 18 12:21	0° 49 '10'01		retrograde	6696 Jan 13 07:55	13° 49 '46'32	
max. Earth dist.	6690 Sep 18 09:51	0° 49 '09'46	30.98920 AU	opposition	6696 Mar 31 09:12	12° 49 '22'45	0°11'53
morning rise	6690 Oct 04 12:50	0° 49 '45'28		min. Earth dist.	6696 Mar 31 08:28	12° 49 '22'48	29.04029 AU
retrograde	6691 Jan 02 01:46	2° 49 '41'01		direct	6696 Jun 18 00:07	10° 49 '58'11	
opposition	6691 Mar 21 05:42	1° 49 '16'59	-0°03'51	evening set	6696 Sep 15 07:31	12° 49 '52'50	
min. Earth dist.	6691 Mar 21 02:25	1° 49 '17'13	28.99299 AU	conjunction	6696 Oct 01 14:25	13° 49 '28'45	0°12'37
	6691 May 17 11:45	30° 49 ' 17		minimum elong	6696 Oct 01 14:25	13° 49 '28'45	0°12'37
direct	6691 Jun 07 16:52	29° 49 '52'34		behind sun begin	6696 Oct 01 10:19	13° 49 '28'23	
	6691 Jun 28 15:17	0° 49 '		behind sun end	6696 Oct 01 18:31	13° 49 '29'07	
evening set	6691 Sep 04 12:48	1° 49 '47'02		max. Earth dist.	6696 Oct 01 14:20	13° 49 '28'45	31.04643 AU
conjunction	6691 Sep 20 19:28	2° 49 '23'01	-0°02'11	morning rise	6696 Oct 17 20:46	14° 49 '04'39	
minimum elong	6691 Sep 20 19:28	2° 49 '23'01	0°02'11	retrograde	6697 Jan 14 18:38	15° 49 '59'26	
behind sun begin	6691 Sep 20 12:53	2° 49 '22'26		opposition	6697 Apr 02 19:25	14° 49 '35'44	0°14'59
behind sun end	6691 Sep 21 02:04	2° 49 '23'36		min. Earth dist.	6697 Apr 02 20:15	14° 49 '35'41	29.05277 AU
max. Earth dist.	6691 Sep 20 21:42	2° 49 '23'10	30.99686 AU	direct	6697 Jun 20 11:50	13° 49 '11'12	
morning rise	6691 Oct 07 02:26	2° 49 '59'01		evening set	6697 Sep 17 20:54	15° 49 '05'54	
retrograde	6692 Jan 04 12:53	4° 49 '54'26		conjunction	6697 Oct 04 03:45	15° 49 '41'49	0°15'30
opposition	6692 Mar 22 16:03	3° 49 '30'25	-0°00'41	minimum elong	6697 Oct 04 03:45	15° 49 '41'49	0°15'32
min. Earth dist.	6692 Mar 22 13:58	3° 49 '30'34	29.00084 AU	behind sun begin	6697 Oct 04 02:33	15° 49 '41'42	
direct	6692 Jun 09 03:01	2° 49 '05'56		behind sun end	6697 Oct 04 04:57	15° 49 '41'55	
asc. node	6692 Jun 10 05:13	2° 49 '05'57		max. Earth dist.	6697 Oct 04 02:37	15° 49 '41'43	31.05920 AU
evening set	6692 Sep 06 02:09	4° 49 '00'26		morning rise	6697 Oct 20 09:59	16° 49 '17'41	
conjunction	6692 Sep 22 09:05	4° 49 '36'24	0°00'52	retrograde	6698 Jan 17 07:13	18° 49 '12'22	
minimum elong	6692 Sep 22 09:05	4° 49 '36'24	0°00'53	opposition	6698 Apr 05 05:36	16° 49 '48'46	0°18'04
behind sun begin	6692 Sep 22 02:30	4° 49 '35'49		min. Earth dist.	6698 Apr 05 06:11	16° 49 '48'44	29.06553 AU
behind sun end	6692 Sep 22 15:40	4° 49 '36'59		direct	6698 Jun 23 00:31	15° 49 '24'15	
max. Earth dist.	6692 Sep 22 11:36	4° 49 '36'34	31.00487 AU	evening set	6698 Sep 20 10:13	17° 49 '19'01	
morning rise	6692 Oct 08 15:51	5° 49 '12'23		conjunction	6698 Oct 06 16:55	17° 49 '54'55	0°18'22
retrograde	6693 Jan 05 22:31	7° 49 '07'38		minimum elong	6698 Oct 06 16:55	17° 49 '54'55	0°18'23
opposition	6693 Mar 25 02:24	5° 49 '43'40	0°02'28	max. Earth dist.	6698 Oct 06 14:47	17° 49 '54'43	31.07174 AU
min. Earth dist.	6693 Mar 25 00:44	5° 49 '43'47	29.00906 AU	morning rise	6698 Oct 22 22:57	18° 49 '30'46	
direct	6693 Jun 11 15:37	4° 49 '19'09		retrograde	6699 Jan 19 19:01	20° 49 '25'20	
evening set	6693 Sep 08 15:39	6° 49 '13'40		opposition	6699 Apr 07 15:59	19° 49 '01'50	0°21'08
conjunction	6693 Sep 24 22:24	6° 49 '49'37	0°03'51	min. Earth dist.	6699 Apr 07 18:19	19° 49 '01'40	29.07789 AU
minimum elong	6693 Sep 24 22:25	6° 49 '49'37	0°03'53	direct	6699 Jun 25 11:34	17° 49 '37'19	
behind sun begin	6693 Sep 24 15:54	6° 49 '49'02		evening set	6699 Sep 22 23:35	19° 49 '32'08	
behind sun end	6693 Sep 25 04:56	6° 49 '50'12		conjunction	6699 Oct 09 06:18	20° 49 '08'01	0°21'13

minimum elong	6699 Oct 09 06:18	20° <u>♁</u> 08'01	0°21'14	opposition	6706 Apr 23 14:57	4° <u>♂</u> 29'08	0°41'18
max. Earth dist.	6699 Oct 09 03:40	20° <u>♁</u> 07'46	31.08367 AU	min. Earth dist.	6706 Apr 23 22:44	4° <u>♂</u> 28'35	29.14205 AU
morning rise	6699 Oct 25 12:05	20° <u>♁</u> 43'50		direct	6706 Jul 11 21:43	3° <u>♂</u> 04'20	
retrograde	6700 Jan 22 07:43	22° <u>♁</u> 38'17		evening set	6706 Oct 09 19:30	4° <u>♂</u> 59'13	
opposition	6700 Apr 10 02:07	21° <u>♁</u> 14'51	0°24'09				
min. Earth dist.	6700 Apr 10 04:45	21° <u>♁</u> 14'40	29.08923 AU	conjunction	6706 Oct 26 01:03	5° <u>♂</u> 34'55	0°39'55
direct	6700 Jun 28 01:22	19° <u>♁</u> 50'19		minimum elong	6706 Oct 26 01:03	5° <u>♂</u> 34'55	0°39'57
evening set	6700 Sep 25 13:07	21° <u>♁</u> 45'10		max. Earth dist.	6706 Oct 25 16:21	5° <u>♂</u> 34'07	31.14660 AU
				morning rise	6706 Nov 11 05:01	6° <u>♂</u> 10'31	
conjunction	6700 Oct 11 19:36	22° <u>♁</u> 21'02	0°24'01	retrograde	6707 Feb 07 07:42	8° <u>♂</u> 03'59	
minimum elong	6700 Oct 11 19:36	22° <u>♁</u> 21'02	0°24'02	opposition	6707 Apr 26 00:54	6° <u>♂</u> 40'47	0°43'57
max. Earth dist.	6700 Oct 11 15:02	22° <u>♁</u> 20'37	31.09443 AU	min. Earth dist.	6707 Apr 26 08:00	6° <u>♂</u> 40'17	29.15176 AU
morning rise	6700 Oct 28 01:16	22° <u>♁</u> 56'50		direct	6707 Jul 14 10:04	5° <u>♂</u> 15'57	
retrograde	6701 Jan 24 18:40	24° <u>♁</u> 51'09		evening set	6707 Oct 12 08:19	7° <u>♂</u> 10'52	
opposition	6701 Apr 12 12:26	23° <u>♁</u> 27'46	0°27'08				
min. Earth dist.	6701 Apr 12 16:25	23° <u>♁</u> 27'29	29.09951 AU	conjunction	6707 Oct 28 13:37	7° <u>♂</u> 46'33	0°42'23
direct	6701 Jun 30 12:20	22° <u>♁</u> 03'12		minimum elong	6707 Oct 28 13:37	7° <u>♂</u> 46'33	0°42'25
evening set	6701 Sep 28 02:22	23° <u>♁</u> 58'04		max. Earth dist.	6707 Oct 28 04:22	7° <u>♂</u> 45'42	31.15683 AU
				morning rise	6707 Nov 13 17:14	8° <u>♂</u> 22'07	
conjunction	6701 Oct 14 08:52	24° <u>♁</u> 33'55	0°26'47	retrograde	6708 Feb 09 18:32	10° <u>♂</u> 15'29	
minimum elong	6701 Oct 14 08:52	24° <u>♁</u> 33'55	0°26'49	opposition	6708 Apr 27 10:53	8° <u>♂</u> 52'21	0°46'33
max. Earth dist.	6701 Oct 14 04:16	24° <u>♁</u> 33'29	31.10408 AU	min. Earth dist.	6708 Apr 27 19:15	8° <u>♂</u> 51'45	29.16271 AU
morning rise	6701 Oct 30 14:08	25° <u>♁</u> 09'41		direct	6708 Jul 15 21:00	7° <u>♂</u> 27'32	
retrograde	6702 Jan 27 04:25	27° <u>♁</u> 03'50		evening set	6708 Oct 13 21:06	9° <u>♂</u> 22'29	
opposition	6702 Apr 14 22:38	25° <u>♁</u> 40'30	0°30'04				
min. Earth dist.	6702 Apr 15 03:22	25° <u>♁</u> 40'10	29.10861 AU	conjunction	6708 Oct 30 02:15	9° <u>♂</u> 58'09	0°44'47
direct	6702 Jul 03 01:08	24° <u>♁</u> 15'55		minimum elong	6708 Oct 30 02:14	9° <u>♂</u> 58'09	0°44'49
evening set	6702 Sep 30 15:41	26° <u>♁</u> 10'46		max. Earth dist.	6708 Oct 29 17:02	9° <u>♂</u> 57'18	31.16838 AU
				morning rise	6708 Nov 15 05:28	10° <u>♂</u> 33'40	
conjunction	6702 Oct 16 21:54	26° <u>♁</u> 46'35	0°29'31	retrograde	6709 Feb 11 06:23	12° <u>♂</u> 26'57	
minimum elong	6702 Oct 16 21:54	26° <u>♁</u> 46'35	0°29'32	opposition	6709 Apr 29 20:53	11° <u>♂</u> 03'55	0°49'05
max. Earth dist.	6702 Oct 16 15:11	26° <u>♁</u> 45'58	31.11284 AU	min. Earth dist.	6709 Apr 30 05:03	11° <u>♂</u> 03'20	29.17464 AU
morning rise	6702 Nov 02 03:04	27° <u>♁</u> 22'19		direct	6709 Jul 18 10:26	9° <u>♂</u> 39'08	
retrograde	6703 Jan 29 15:45	29° <u>♁</u> 16'20		evening set	6709 Oct 16 09:52	11° <u>♂</u> 34'09	
opposition	6703 Apr 17 08:44	27° <u>♁</u> 53'01	0°32'57				
min. Earth dist.	6703 Apr 17 13:59	27° <u>♁</u> 52'39	29.11712 AU	conjunction	6709 Nov 01 14:36	12° <u>♂</u> 09'47	0°47'07
direct	6703 Jul 05 11:36	26° <u>♁</u> 28'22		minimum elong	6709 Nov 01 14:35	12° <u>♂</u> 09'47	0°47'10
evening set	6703 Oct 03 04:42	28° <u>♁</u> 23'14		max. Earth dist.	6709 Nov 01 04:10	12° <u>♂</u> 08'50	31.18065 AU
				morning rise	6709 Nov 17 17:32	12° <u>♂</u> 45'17	
conjunction	6703 Oct 19 10:56	28° <u>♁</u> 59'01	0°32'12	retrograde	6710 Feb 13 17:19	14° <u>♂</u> 38'30	
minimum elong	6703 Oct 19 10:56	28° <u>♁</u> 59'01	0°32'14	opposition	6710 May 02 06:56	13° <u>♂</u> 15'34	0°51'32
max. Earth dist.	6703 Oct 19 04:29	28° <u>♁</u> 58'26	31.12104 AU	min. Earth dist.	6710 May 02 15:58	13° <u>♂</u> 14'56	29.18723 AU
morning rise	6703 Nov 04 15:43	29° <u>♁</u> 34'44		direct	6710 Jul 20 20:56	11° <u>♂</u> 50'50	
	6703 Nov 16 15:44	0° <u>♂</u>		evening set	6710 Oct 18 22:34	13° <u>♂</u> 45'55	
retrograde	6704 Feb 01 00:39	1° <u>♂</u> 28'35					
opposition	6704 Apr 18 18:54	0° <u>♂</u> 05'18	0°35'48	conjunction	6710 Nov 04 03:09	14° <u>♂</u> 21'32	0°49'22
min. Earth dist.	6704 Apr 19 01:31	0° <u>♂</u> 04'50	29.12515 AU	minimum elong	6710 Nov 04 03:09	14° <u>♂</u> 21'32	0°49'25
	6704 Apr 21 22:17	30° <u>♂</u> <u>♁</u>		max. Earth dist.	6710 Nov 03 17:06	14° <u>♂</u> 20'36	31.19322 AU
direct	6704 Jul 06 22:42	28° <u>♁</u> 40'36		morning rise	6710 Nov 20 05:35	14° <u>♂</u> 57'00	
	6704 Sep 17 14:57	0° <u>♂</u>			6710 Nov 21 15:02	15° <u>♂</u>	
evening set	6704 Oct 04 17:52	0° <u>♂</u> 35'27		retrograde	6711 Feb 16 03:22	16° <u>♂</u> 50'08	
				opposition	6711 May 04 16:58	15° <u>♂</u> 27'19	0°53'55
conjunction	6704 Oct 20 23:48	1° <u>♂</u> 11'13	0°34'49	min. Earth dist.	6711 May 05 02:42	15° <u>♂</u> 26'38	29.19961 AU
minimum elong	6704 Oct 20 23:47	1° <u>♂</u> 11'13	0°34'51		6711 May 21 07:01	15° <u>♂</u>	
max. Earth dist.	6704 Oct 20 15:43	1° <u>♂</u> 10'28	31.12910 AU	direct	6711 Jul 23 09:14	14° <u>♂</u> 02'37	
morning rise	6704 Nov 06 04:26	1° <u>♂</u> 46'53			6711 Sep 22 08:09	15° <u>♂</u>	
retrograde	6705 Feb 02 11:06	3° <u>♂</u> 40'36		evening set	6711 Oct 21 11:25	15° <u>♂</u> 57'46	
opposition	6705 Apr 21 04:47	2° <u>♂</u> 17'20	0°38'34				
min. Earth dist.	6705 Apr 21 11:13	2° <u>♂</u> 16'53	29.13332 AU	conjunction	6711 Nov 06 15:33	16° <u>♂</u> 33'22	0°51'34
direct	6705 Jul 09 10:39	0° <u>♂</u> 52'34		minimum elong	6711 Nov 06 15:33	16° <u>♂</u> 33'22	0°51'37
evening set	6705 Oct 07 06:48	2° <u>♂</u> 47'26		max. Earth dist.	6711 Nov 06 03:31	16° <u>♂</u> 32'15	31.20529 AU
				morning rise	6711 Nov 22 17:46	17° <u>♂</u> 08'48	
conjunction	6705 Oct 23 12:37	3° <u>♂</u> 23'10	0°37'24	retrograde	6712 Feb 18 15:10	19° <u>♂</u> 01'53	
minimum elong	6705 Oct 23 12:37	3° <u>♂</u> 23'10	0°37'26	opposition	6712 May 06 03:05	17° <u>♂</u> 39'09	0°56'13
max. Earth dist.	6705 Oct 23 04:38	3° <u>♂</u> 22'26	31.13739 AU	min. Earth dist.	6712 May 06 13:13	17° <u>♂</u> 38'26	29.21129 AU
morning rise	6705 Nov 08 16:49	3° <u>♂</u> 58'48		direct	6712 Jul 24 19:35	16° <u>♂</u> 14'28	
retrograde	6706 Feb 04 20:25	5° <u>♂</u> 52'23		evening set	6712 Oct 23 00:11	18° <u>♂</u> 09'40	

conjunction	6712 Nov 08 04:09	18° M 45'15	0°53'41	retrograde	6719 Mar 05 13:24	4° 7 22'02	
minimum elong	6712 Nov 08 04:09	18° M 45'15	0°53'43	opposition	6719 May 22 02:03	2° 7 59'33	1°09'49
max. Earth dist.	6712 Nov 07 16:16	18° M 44'09	31.21628 AU	min. Earth dist.	6719 May 22 16:41	2° 7 58'32	29.26596 AU
morning rise	6712 Nov 24 05:46	19° M 20'39		direct	6719 Aug 10 04:38	1° 7 34'43	
retrograde	6713 Feb 20 00:04	21° M 13'39		evening set	6719 Nov 08 15:00	3° 7 29'59	
opposition	6713 May 08 13:17	19° M 51'00	0°58'26				
min. Earth dist.	6713 May 09 00:57	19° M 50'11	29.22168 AU	conjunction	6719 Nov 24 16:31	4° 7 05'20	1°06'06
direct	6713 Jul 27 06:27	18° M 26'21		minimum elong	6719 Nov 24 16:31	4° 7 05'20	1°06'10
evening set	6713 Oct 25 13:00	20° M 21'34		max. Earth dist.	6719 Nov 24 00:40	4° 7 03'52	31.26917 AU
				morning rise	6719 Dec 10 15:13	4° 7 40'28	
conjunction	6713 Nov 10 16:30	20° M 57'07	0°55'43	retrograde	6720 Mar 06 23:14	6° 7 32'49	
minimum elong	6713 Nov 10 16:30	20° M 57'07	0°55'46	opposition	6720 May 23 12:15	5° 7 10'22	1°11'22
max. Earth dist.	6713 Nov 10 02:51	20° M 55'51	31.22609 AU	min. Earth dist.	6720 May 24 03:07	5° 7 09'20	29.27368 AU
morning rise	6713 Nov 26 17:52	21° M 32'29		direct	6720 Aug 11 17:47	3° 7 45'32	
retrograde	6714 Feb 22 10:15	23° M 25'24		evening set	6720 Nov 10 03:09	5° 7 40'49	
opposition	6714 May 10 23:27	22° M 02'49	1°00'34	max. Earth dist.	6720 Nov 25 10:54	6° 7 14'33	31.27739 AU
min. Earth dist.	6714 May 11 10:57	22° M 02'00	29.23089 AU				
direct	6714 Jul 29 18:04	20° M 38'08		conjunction	6720 Nov 26 04:06	6° 7 16'08	1°07'31
evening set	6714 Oct 28 01:27	22° M 33'23		minimum elong	6720 Nov 26 04:06	6° 7 16'08	1°07'33
				morning rise	6720 Dec 12 02:29	6° 7 51'14	
conjunction	6714 Nov 13 04:44	23° M 08'54	0°57'40	retrograde	6721 Mar 09 10:47	8° 7 43'31	
minimum elong	6714 Nov 13 04:44	23° M 08'54	0°57'42	opposition	6721 May 25 22:22	7° 7 21'07	1°12'49
max. Earth dist.	6714 Nov 12 14:58	23° M 07'38	31.23460 AU	min. Earth dist.	6721 May 26 12:55	7° 7 20'07	29.28242 AU
morning rise	6714 Nov 29 05:35	23° M 44'14		direct	6721 Aug 14 05:02	5° 7 56'19	
retrograde	6715 Feb 24 19:14	25° M 37'04		evening set	6721 Nov 12 15:03	7° 7 51'37	
opposition	6715 May 13 09:43	24° M 14'31	1°02'36				
min. Earth dist.	6715 May 13 22:54	24° M 13'36	29.23889 AU	conjunction	6721 Nov 28 15:46	8° 7 26'55	1°08'49
direct	6715 Aug 01 04:27	22° M 49'50		minimum elong	6721 Nov 28 15:46	8° 7 26'55	1°08'54
evening set	6715 Oct 30 14:02	24° M 45'05		max. Earth dist.	6721 Nov 27 23:26	8° 7 25'24	31.28645 AU
				morning rise	6721 Dec 14 13:32	9° 7 01'59	
conjunction	6715 Nov 15 16:57	25° M 20'34	0°59'32	retrograde	6722 Mar 11 19:19	10° 7 54'13	
minimum elong	6715 Nov 15 16:57	25° M 20'34	0°59'35	opposition	6722 May 28 08:39	9° 7 31'54	1°14'10
max. Earth dist.	6715 Nov 15 02:05	25° M 19'12	31.24213 AU	min. Earth dist.	6722 May 29 00:14	9° 7 30'49	29.29171 AU
morning rise	6715 Dec 01 17:29	25° M 55'52		direct	6722 Aug 16 16:14	8° 7 07'07	
retrograde	6716 Feb 27 05:53	27° M 48'35		evening set	6722 Nov 15 02:55	10° 7 02'28	
opposition	6716 May 14 19:40	26° M 26'04	1°04'33	max. Earth dist.	6722 Nov 30 09:40	10° 7 36'06	31.29589 AU
min. Earth dist.	6716 May 15 08:34	26° M 25'10	29.24594 AU				
direct	6716 Aug 02 16:22	25° M 01'20		conjunction	6722 Dec 01 03:07	10° 7 37'43	1°10'02
evening set	6716 Nov 01 02:33	26° M 56'37		minimum elong	6722 Dec 01 03:07	10° 7 37'43	1°10'05
				morning rise	6722 Dec 17 00:38	11° 7 12'45	
conjunction	6716 Nov 17 05:06	27° M 32'03	1°01'19	retrograde	6723 Mar 14 05:28	13° 7 04'57	
minimum elong	6716 Nov 17 05:06	27° M 32'03	1°01'21	opposition	6723 May 30 18:52	11° 7 42'43	1°15'24
max. Earth dist.	6716 Nov 16 13:27	27° M 30'37	31.24879 AU	min. Earth dist.	6723 May 31 09:57	11° 7 41'40	29.30103 AU
morning rise	6716 Dec 03 05:10	28° M 07'19		direct	6723 Aug 19 03:17	10° 7 17'59	
retrograde	6717 Feb 28 16:11	29° M 59'56		evening set	6723 Nov 17 14:52	12° 7 13'21	
opposition	6717 May 17 05:53	28° M 37'26	1°06'24				
min. Earth dist.	6717 May 17 20:11	28° M 36'26	29.25250 AU	conjunction	6723 Dec 03 14:45	12° 7 48'36	1°11'08
direct	6717 Aug 05 04:00	27° M 12'40		minimum elong	6723 Dec 03 14:45	12° 7 48'36	1°11'12
evening set	6717 Nov 03 14:43	29° M 07'56		max. Earth dist.	6723 Dec 02 21:26	12° 7 46'59	31.30481 AU
				morning rise	6723 Dec 19 11:40	13° 7 23'36	
conjunction	6717 Nov 19 16:57	29° M 43'20	1°03'00	retrograde	6724 Mar 15 14:33	15° 7 15'46	
minimum elong	6717 Nov 19 16:57	29° M 43'20	1°03'04	opposition	6724 Jun 01 05:11	13° 7 53'36	1°16'32
max. Earth dist.	6717 Nov 19 01:25	29° M 41'54	31.25524 AU	min. Earth dist.	6724 Jun 01 21:49	13° 7 52'27	29.30960 AU
	6717 Nov 27 05:03	0° 7		direct	6724 Aug 20 13:02	12° 7 28'53	
morning rise	6717 Dec 05 16:33	0° 7 18'33		evening set	6724 Nov 19 02:52	14° 7 24'18	
retrograde	6718 Mar 03 03:01	2° 7 11'05		max. Earth dist.	6724 Dec 04 08:07	14° 7 57'49	31.31286 AU
opposition	6718 May 19 16:00	0° 7 48'35	1°08'09				
min. Earth dist.	6718 May 20 06:06	0° 7 47'36	29.25892 AU	conjunction	6724 Dec 05 02:16	14° 7 59'30	1°12'09
	6718 Jun 19 16:26	30° R M		minimum elong	6724 Dec 05 02:16	14° 7 59'30	1°12'11
direct	6718 Aug 07 17:55	29° M 23'47		morning rise	6724 Dec 20 22:48	15° 7 34'29	
	6718 Sep 24 16:33	0° 7		retrograde	6725 Mar 18 01:02	17° 7 26'37	
evening set	6718 Nov 06 02:59	1° 7 19'03		opposition	6725 Jun 03 15:36	16° 7 04'30	1°17'33
				min. Earth dist.	6725 Jun 04 07:47	16° 7 03'23	29.31697 AU
conjunction	6718 Nov 22 04:43	1° 7 54'25	1°04'36	direct	6725 Aug 23 00:41	14° 7 39'49	
minimum elong	6718 Nov 22 04:43	1° 7 54'25	1°04'39	evening set	6725 Nov 21 14:40	16° 7 35'15	
max. Earth dist.	6718 Nov 21 12:06	1° 7 52'53	31.26182 AU				
morning rise	6718 Dec 08 03:58	2° 7 29'36		conjunction	6725 Dec 07 13:38	17° 7 10'26	1°13'03

minimum elong	6725 Dec 07 13:37	17°  10'26	1°13'07	opposition	6732 Jun 18 16:59	1°  18'50	1°21'31
max. Earth dist.	6725 Dec 06 18:44	17°  08'41	31.31945 AU	min. Earth dist.	6732 Jun 19 11:15	1°  17'34	29.33747 AU
morning rise	6725 Dec 23 09:40	17°  45'22			6732 Aug 19 02:02	30°  R 	
retrograde	6726 Mar 20 11:15	19°  37'29		direct	6732 Sep 07 12:21	29°  34'03	
opposition	6726 Jun 06 02:10	18°  15'25	1°18'27		6732 Sep 26 15:37	0°  R	
min. Earth dist.	6726 Jun 06 19:40	18°  14'12	29.32296 AU	evening set	6732 Dec 06 23:05	1°  34'29	
direct	6726 Aug 25 11:37	16°  35'04					
evening set	6726 Nov 24 02:28	18°  34'11		conjunction	6732 Dec 22 19:10	2°  32'28	1°16'23
max. Earth dist.	6726 Dec 09 06:09	19°  31'35	31.32469 AU	minimum elong	6732 Dec 22 19:10	2°  32'28	1°16'25
				max. Earth dist.	6732 Dec 21 23:05	2°  32'36	31.33805 AU
conjunction	6726 Dec 10 01:05	19°  31'20	1°13'50	morning rise	6733 Jan 07 12:06	2°  35'11	
minimum elong	6726 Dec 10 01:04	19°  31'20	1°13'54	retrograde	6733 Apr 04 08:18	4°  35'02	
morning rise	6726 Dec 25 20:39	19°  35'14		opposition	6733 Jun 21 03:42	3°  32'03	1°21'37
retrograde	6727 Mar 22 21:45	21°  48'18		min. Earth dist.	6733 Jun 21 22:45	3°  32'44	29.34043 AU
opposition	6727 Jun 08 12:32	20°  26'16	1°19'15	direct	6733 Sep 09 21:53	2°  30'18	
min. Earth dist.	6727 Jun 09 06:07	20°  25'03	29.32737 AU	evening set	6733 Dec 09 10:02	3°  35'44	
direct	6727 Aug 28 00:49	19°  31'35		max. Earth dist.	6733 Dec 24 09:38	4°  32'49	31.34154 AU
evening set	6727 Nov 26 14:19	20°  35'03					
				conjunction	6733 Dec 25 05:40	4°  34'41	1°16'25
conjunction	6727 Dec 12 12:25	21°  32'10	1°14'32	minimum elong	6733 Dec 25 05:40	4°  34'41	1°16'29
minimum elong	6727 Dec 12 12:25	21°  32'10	1°14'36	morning rise	6734 Jan 09 22:16	5°  30'23	
max. Earth dist.	6727 Dec 11 16:07	21°  30'17	31.32839 AU	retrograde	6734 Apr 06 18:02	7°  30'15	
morning rise	6727 Dec 28 07:38	22°  30'03		opposition	6734 Jun 23 14:16	5°  39'17	1°21'36
retrograde	6728 Mar 24 08:32	23°  35'04		min. Earth dist.	6734 Jun 24 08:12	5°  38'03	29.34420 AU
opposition	6728 Jun 09 23:03	22°  37'02	1°19'56	direct	6734 Sep 12 09:05	4°  31'43	
min. Earth dist.	6728 Jun 10 17:17	22°  35'47	29.33050 AU	evening set	6734 Dec 11 21:05	6°  31'02	
direct	6728 Aug 29 11:31	21°  31'20					
evening set	6728 Nov 28 01:52	23°  30'49		conjunction	6734 Dec 27 16:17	6°  34'57	1°16'21
				minimum elong	6734 Dec 27 16:17	6°  34'57	1°16'25
conjunction	6728 Dec 13 23:41	23°  34'54	1°15'07	max. Earth dist.	6734 Dec 26 20:05	6°  33'05	31.34556 AU
minimum elong	6728 Dec 13 23:41	23°  34'54	1°15'10	morning rise	6735 Jan 12 08:29	7°  31'39	
max. Earth dist.	6728 Dec 13 04:01	23°  34'04	31.33088 AU	retrograde	6735 Apr 09 03:57	9°  31'32	
morning rise	6728 Dec 29 18:19	24°  31'44		opposition	6735 Jun 26 00:52	7°  39'37	1°21'29
retrograde	6729 Mar 26 18:16	26°  30'43		min. Earth dist.	6735 Jun 26 19:36	7°  38'20	29.34841 AU
opposition	6729 Jun 12 09:35	24°  34'42	1°20'30	direct	6735 Sep 14 19:08	6°  32'57	
min. Earth dist.	6729 Jun 13 04:20	24°  34'24	29.33244 AU	evening set	6735 Dec 14 08:06	8°  30'25	
direct	6729 Sep 01 01:05	23°  32'59		max. Earth dist.	6735 Dec 29 07:22	8°  33'31	31.34974 AU
evening set	6729 Nov 30 13:27	25°  31'26					
				conjunction	6735 Dec 30 02:58	8°  35'20	1°16'11
conjunction	6729 Dec 16 10:40	25°  33'29	1°15'35	minimum elong	6735 Dec 30 02:58	8°  35'20	1°16'15
minimum elong	6729 Dec 16 10:40	25°  33'29	1°15'40	morning rise	6736 Jan 14 18:43	9°  30'00	
max. Earth dist.	6729 Dec 15 13:38	25°  31'32	31.33254 AU	retrograde	6736 Apr 10 14:11	11°  32'54	
morning rise	6730 Jan 01 05:02	26°  30'18		opposition	6736 Jun 27 11:37	10°  30'02	1°21'14
retrograde	6730 Mar 29 05:50	28°  20'14		min. Earth dist.	6736 Jun 28 06:05	9°  35'46	29.35227 AU
opposition	6730 Jun 14 20:01	26°  35'12	1°20'57	direct	6736 Sep 16 07:01	8°  35'25	
min. Earth dist.	6730 Jun 15 14:25	26°  35'56	29.33397 AU	evening set	6736 Dec 15 19:07	10°  30'55	
direct	6730 Sep 03 12:59	25°  33'27					
evening set	6730 Dec 03 00:36	27°  28'54		conjunction	6736 Dec 31 13:25	11°  30'54	1°15'54
				minimum elong	6736 Dec 31 13:25	11°  30'54	1°15'57
conjunction	6730 Dec 18 21:35	28°  30'56	1°15'58	max. Earth dist.	6736 Dec 30 16:55	11°  30'53	31.35326 AU
minimum elong	6730 Dec 18 21:35	28°  30'56	1°16'00	morning rise	6737 Jan 16 04:51	11°  34'26	
max. Earth dist.	6730 Dec 18 01:32	28°  30'04	31.33392 AU	retrograde	6737 Apr 13 01:21	13°  32'22	
morning rise	6731 Jan 03 15:23	28°  38'42		opposition	6737 Jun 29 22:30	12°  31'03	1°20'52
	6731 Feb 16 16:55	0°  R		min. Earth dist.	6737 Jun 30 17:10	12°  30'15	29.35547 AU
retrograde	6731 Mar 31 14:00	0°  30'36		direct	6737 Sep 18 16:55	10°  34'57	
	6731 May 14 15:25	30°  R 		evening set	6737 Dec 18 06:01	12°  34'27	
opposition	6731 Jun 17 06:36	29°  38'34	1°21'17	max. Earth dist.	6738 Jan 02 04:28	13°  34'29	31.35589 AU
min. Earth dist.	6731 Jun 18 01:54	29°  37'14	29.33542 AU				
direct	6731 Sep 06 00:57	27°  34'48		conjunction	6738 Jan 03 00:03	13°  31'18	1°15'30
evening set	6731 Dec 05 11:56	29°  39'14		minimum elong	6738 Jan 03 00:04	13°  31'18	1°15'34
	6731 Dec 14 22:59	0°  R		morning rise	6738 Jan 18 14:57	13°  35'55	
max. Earth dist.	6731 Dec 20 11:32	0°  31'18	31.33563 AU	retrograde	6738 Apr 15 11:42	15°  34'53	
				opposition	6738 Jul 02 09:27	14°  32'04	1°20'24
conjunction	6731 Dec 21 08:21	0°  31'44	1°16'13	min. Earth dist.	6738 Jul 03 04:33	14°  31'45	29.35745 AU
minimum elong	6731 Dec 21 08:21	0°  31'44	1°16'17	direct	6738 Sep 21 06:21	12°  35'30	
morning rise	6732 Jan 06 01:51	0°  34'59		evening set	6738 Dec 20 16:56	14°  32'00	
retrograde	6732 Apr 01 23:25	2°  34'51					

conjunction	6739 Jan 05 10:26	15°32'50	1°15'00	opposition	6745 Jul 17 15:00	29°32'19	1°13'58
minimum elong	6739 Jan 05 10:26	15°32'50	1°15'03	min. Earth dist.	6745 Jul 18 09:03	29°31'05	29.34433 AU
max. Earth dist.	6739 Jan 04 13:31	15°32'45	31.35725 AU	direct	6745 Oct 06 15:22	28°30'42	
morning rise	6739 Jan 21 01:08	16°30'25			6746 Jan 03 09:53	0°00'	
retrograde	6739 Apr 17 23:46	17°35'23		evening set	6746 Jan 04 18:45	0°02'59	
opposition	6739 Jul 04 20:21	16°31'34	1°19'48				
min. Earth dist.	6739 Jul 05 15:02	16°30'17	29.35813 AU	conjunction	6746 Jan 20 09:36	0°37'39	1°08'37
direct	6739 Sep 23 18:29	15°30'00		minimum elong	6746 Jan 20 09:36	0°37'39	1°08'41
evening set	6739 Dec 23 03:45	17°30'30		max. Earth dist.	6746 Jan 19 14:11	0°35'51	31.34312 AU
				morning rise	6746 Feb 04 21:54	1°12'07	
conjunction	6740 Jan 07 21:00	17°33'18	1°14'24	retrograde	6746 May 02 19:10	3°04'12	
minimum elong	6740 Jan 07 21:00	17°33'18	1°14'27	opposition	6746 Jul 20 02:07	1°42'13	1°12'37
max. Earth dist.	6740 Jan 07 00:51	17°35'26	31.35712 AU	min. Earth dist.	6746 Jul 20 19:41	1°41'01	29.34343 AU
morning rise	6740 Jan 23 11:09	18°31'53		direct	6746 Oct 09 00:46	0°17'39	
retrograde	6740 Apr 19 08:24	20°30'51		evening set	6747 Jan 07 04:52	2°12'56	
opposition	6740 Jul 06 07:26	18°34'01	1°19'06				
min. Earth dist.	6740 Jul 07 03:12	18°34'40	29.35728 AU	conjunction	6747 Jan 22 19:34	2°47'36	1°07'19
direct	6740 Sep 25 06:35	17°31'27		minimum elong	6747 Jan 22 19:34	2°47'36	1°07'21
evening set	6740 Dec 24 14:38	19°31'25		max. Earth dist.	6747 Jan 22 01:42	2°45'56	31.34262 AU
max. Earth dist.	6741 Jan 08 10:23	19°34'45	31.35574 AU	morning rise	6747 Feb 07 07:26	3°22'03	
				retrograde	6747 May 05 05:36	5°14'12	
conjunction	6741 Jan 09 07:21	19°34'42	1°13'41	opposition	6747 Jul 22 13:26	3°52'15	1°11'10
minimum elong	6741 Jan 09 07:22	19°34'42	1°13'44	min. Earth dist.	6747 Jul 23 06:54	3°51'03	29.34308 AU
morning rise	6741 Jan 24 21:17	20°32'14		direct	6747 Oct 11 13:29	2°27'45	
retrograde	6741 Apr 21 18:35	22°31'42		evening set	6748 Jan 09 15:11	4°23'02	
opposition	6741 Jul 08 18:28	20°35'21	1°18'17	max. Earth dist.	6748 Jan 24 10:49	4°55'58	31.34251 AU
min. Earth dist.	6741 Jul 09 13:17	20°35'04	29.35527 AU				
direct	6741 Sep 27 18:55	19°32'46		conjunction	6748 Jan 25 05:21	4°57'42	1°05'54
evening set	6741 Dec 27 01:07	21°32'10		minimum elong	6748 Jan 25 05:21	4°57'42	1°05'57
				morning rise	6748 Feb 09 17:06	5°32'08	
conjunction	6742 Jan 11 17:34	21°35'57	1°12'52	retrograde	6748 May 06 18:10	7°24'23	
minimum elong	6742 Jan 11 17:34	21°35'57	1°12'56	opposition	6748 Jul 24 00:44	6°02'27	1°09'36
max. Earth dist.	6742 Jan 10 21:07	21°35'02	31.35320 AU	min. Earth dist.	6748 Jul 24 17:12	6°01'20	29.34298 AU
morning rise	6742 Jan 27 07:04	22°32'28		direct	6748 Oct 13 00:51	4°38'01	
retrograde	6742 Apr 24 03:45	24°32'26		evening set	6749 Jan 11 01:22	6°33'20	
opposition	6742 Jul 11 05:39	23°30'32	1°17'22				
min. Earth dist.	6742 Jul 12 01:25	23°30'11	29.35239 AU	conjunction	6749 Jan 26 15:20	7°07'59	1°04'24
direct	6742 Sep 30 05:44	21°33'56		minimum elong	6749 Jan 26 15:20	7°07'59	1°04'26
evening set	6742 Dec 29 11:40	23°33'17		max. Earth dist.	6749 Jan 25 22:03	7°06'23	31.34227 AU
max. Earth dist.	6743 Jan 13 07:25	24°30'08	31.35016 AU	morning rise	6749 Feb 11 02:38	7°42'26	
				retrograde	6749 May 09 03:45	9°34'46	
conjunction	6743 Jan 14 03:44	24°30'02	1°11'58	opposition	6749 Jul 26 12:21	8°12'52	1°07'57
minimum elong	6743 Jan 14 03:44	24°30'02	1°12'00	min. Earth dist.	6749 Jul 27 05:29	8°11'42	29.34250 AU
morning rise	6743 Jan 29 16:57	24°34'32		direct	6749 Oct 15 12:15	6°48'30	
retrograde	6743 Apr 26 12:51	26°34'30		evening set	6750 Jan 13 11:32	8°43'49	
opposition	6743 Jul 13 16:32	25°31'23	1°16'21	max. Earth dist.	6750 Jan 28 07:28	9°16'49	31.34151 AU
min. Earth dist.	6743 Jul 14 11:12	25°31'17	29.34917 AU				
direct	6743 Oct 02 17:51	23°34'56		conjunction	6750 Jan 29 01:04	9°18'28	1°02'47
evening set	6743 Dec 31 22:10	25°34'15		minimum elong	6750 Jan 29 01:05	9°18'28	1°02'50
				morning rise	6750 Feb 13 12:15	9°52'54	
conjunction	6744 Jan 16 13:48	26°31'58	1°10'57	retrograde	6750 May 11 14:44	11°45'19	
minimum elong	6744 Jan 16 13:49	26°31'58	1°11'01	opposition	6750 Jul 28 23:52	10°23'26	1°06'11
max. Earth dist.	6744 Jan 15 17:28	26°31'04	31.34701 AU	min. Earth dist.	6750 Jul 29 15:51	10°22'21	29.34119 AU
morning rise	6744 Feb 01 02:42	26°35'28		direct	6750 Oct 18 00:39	8°59'09	
retrograde	6744 Apr 27 22:24	28°34'27		evening set	6751 Jan 15 21:48	10°54'28	
opposition	6744 Jul 15 03:46	27°32'28	1°15'13				
min. Earth dist.	6744 Jul 15 22:44	27°32'10	29.34637 AU	conjunction	6751 Jan 31 11:05	11°29'06	1°01'06
direct	6744 Oct 04 03:50	25°35'50		minimum elong	6751 Jan 31 11:05	11°29'06	1°01'08
evening set	6745 Jan 02 08:24	27°35'07		max. Earth dist.	6751 Jan 30 17:55	11°27'29	31.33956 AU
				morning rise	6751 Feb 15 21:55	12°03'31	
conjunction	6745 Jan 17 23:44	28°32'49	1°09'50	retrograde	6751 May 14 01:08	13°56'02	
minimum elong	6745 Jan 17 23:44	28°32'49	1°09'53	opposition	6751 Jul 31 11:30	12°34'09	1°04'20
max. Earth dist.	6745 Jan 17 04:40	28°32'02	31.34459 AU	min. Earth dist.	6751 Aug 01 04:25	12°33'00	29.33864 AU
morning rise	6745 Feb 02 12:13	29°30'21		direct	6751 Oct 20 11:33	11°09'54	
	6745 Mar 03 09:14	0°00'		evening set	6752 Jan 18 08:06	13°05'13	
retrograde	6745 Apr 30 07:53	0°54'19					
	6745 Jun 30 09:09	30°30'		conjunction	6752 Feb 02 21:04	13°39'50	0°59'19

minimum elong	6752 Feb 02 21:04	13° \approx 39'50	0°59'22	opposition	6758 Aug 15 22:35	27° \approx 48'36	0°48'59
max. Earth dist.	6752 Feb 02 04:05	13° \approx 38'15	31.33636 AU	min. Earth dist.	6758 Aug 16 12:24	27° \approx 47'40	29.29367 AU
morning rise	6752 Feb 18 07:40	14° \approx 14'16		direct	6758 Nov 04 18:41	26° \approx 24'23	
	6752 Mar 11 12:30	15° \approx		evening set	6759 Feb 02 05:46	28° \approx 19'21	
retrograde	6752 May 15 10:41	16° \approx 06'51					
	6752 Jul 23 16:24	15° \approx		conjunction	6759 Feb 17 16:48	28° \approx 53'53	0°44'41
opposition	6752 Aug 01 23:15	14° \approx 44'57	1°02'23	minimum elong	6759 Feb 17 16:49	28° \approx 53'53	0°44'42
min. Earth dist.	6752 Aug 02 15:06	14° \approx 43'53	29.33460 AU	max. Earth dist.	6759 Feb 17 03:05	28° \approx 52'36	31.29057 AU
direct	6752 Oct 21 23:57	13° \approx 20'44		morning rise	6759 Mar 05 02:10	29° \approx 28'17	
	6753 Jan 12 07:51	15° \approx			6759 Mar 20 01:37	0° \approx	
evening set	6753 Jan 19 18:17	15° \approx 16'00		retrograde	6759 May 31 13:03	1° \approx 21'23	
					6759 Aug 17 21:00	30° \approx	
conjunction	6753 Feb 04 06:52	15° \approx 50'37	0°57'27	opposition	6759 Aug 18 10:25	29° \approx 59'05	0°46'29
minimum elong	6753 Feb 04 06:53	15° \approx 50'37	0°57'30	min. Earth dist.	6759 Aug 18 22:31	29° \approx 58'16	29.28812 AU
max. Earth dist.	6753 Feb 03 13:33	15° \approx 49'00	31.33158 AU	direct	6759 Nov 07 07:31	28° \approx 34'55	
morning rise	6753 Feb 19 17:17	16° \approx 25'02			6760 Jan 21 13:40	0° \approx	
retrograde	6753 May 17 20:28	18° \approx 17'42		evening set	6760 Feb 04 15:35	0° \approx 29'51	
opposition	6753 Aug 04 11:09	16° \approx 55'46	1°00'21				
min. Earth dist.	6753 Aug 05 03:28	16° \approx 54'40	29.32916 AU	conjunction	6760 Feb 20 02:26	1° \approx 04'24	0°42'19
direct	6753 Oct 24 09:57	15° \approx 31'34		minimum elong	6760 Feb 20 02:26	1° \approx 04'24	0°42'21
evening set	6754 Jan 22 04:21	17° \approx 26'47		max. Earth dist.	6760 Feb 19 13:38	1° \approx 03'12	31.28528 AU
				morning rise	6760 Mar 06 11:35	1° \approx 38'48	
conjunction	6754 Feb 06 16:47	18° \approx 01'23	0°55'31	retrograde	6760 Jun 02 00:15	3° \approx 32'00	
minimum elong	6754 Feb 06 16:47	18° \approx 01'23	0°55'34	opposition	6760 Aug 19 22:40	2° \approx 09'42	0°43'55
max. Earth dist.	6754 Feb 06 00:30	17° \approx 59'51	31.32551 AU	min. Earth dist.	6760 Aug 20 11:05	2° \approx 08'51	29.28303 AU
morning rise	6754 Feb 22 02:54	18° \approx 35'48		direct	6760 Nov 08 18:47	0° \approx 45'35	
retrograde	6754 May 20 05:48	20° \approx 28'31		evening set	6761 Feb 06 01:16	2° \approx 40'30	
opposition	6754 Aug 06 22:51	19° \approx 06'32	0°58'14				
min. Earth dist.	6754 Aug 07 14:40	19° \approx 05'28	29.32238 AU	conjunction	6761 Feb 21 11:55	3° \approx 15'02	0°39'52
direct	6754 Oct 26 21:17	17° \approx 42'19		minimum elong	6761 Feb 21 11:55	3° \approx 15'02	0°39'54
evening set	6755 Jan 24 14:28	19° \approx 37'29		max. Earth dist.	6761 Feb 21 00:02	3° \approx 13'56	31.28032 AU
max. Earth dist.	6755 Feb 08 09:35	20° \approx 10'29	31.31831 AU	morning rise	6761 Mar 08 20:57	3° \approx 49'27	
				retrograde	6761 Jun 04 10:13	5° \approx 42'47	
conjunction	6755 Feb 09 02:30	20° \approx 12'04	0°53'30	opposition	6761 Aug 22 10:50	4° \approx 20'28	0°41'16
minimum elong	6755 Feb 09 02:30	20° \approx 12'04	0°53'31	min. Earth dist.	6761 Aug 22 21:45	4° \approx 19'43	29.27788 AU
morning rise	6755 Feb 24 12:35	20° \approx 46'29		direct	6761 Nov 11 07:09	2° \approx 56'25	
retrograde	6755 May 22 17:13	22° \approx 39'16		evening set	6762 Feb 08 11:10	4° \approx 51'19	
opposition	6755 Aug 09 10:42	21° \approx 17'12	0°56'02				
min. Earth dist.	6755 Aug 10 02:07	21° \approx 16'09	29.31488 AU	conjunction	6762 Feb 23 21:31	5° \approx 25'51	0°37'23
direct	6755 Oct 29 07:31	19° \approx 52'57		minimum elong	6762 Feb 23 21:31	5° \approx 25'51	0°37'25
evening set	6756 Jan 27 00:17	21° \approx 48'03		max. Earth dist.	6762 Feb 23 09:34	5° \approx 24'44	31.27498 AU
				morning rise	6762 Mar 11 06:30	6° \approx 00'17	
conjunction	6756 Feb 11 12:12	22° \approx 22'38	0°51'24	retrograde	6762 Jun 06 20:51	7° \approx 53'44	
minimum elong	6756 Feb 11 12:12	22° \approx 22'38	0°51'26	opposition	6762 Aug 24 23:02	6° \approx 31'24	0°38'34
max. Earth dist.	6756 Feb 10 20:56	22° \approx 21'12	31.31060 AU	min. Earth dist.	6762 Aug 25 10:10	6° \approx 30'39	29.27232 AU
morning rise	6756 Feb 26 21:55	22° \approx 57'02		direct	6762 Nov 13 17:05	5° \approx 07'24	
retrograde	6756 May 24 03:15	24° \approx 49'53		evening set	6763 Feb 10 21:01	7° \approx 02'17	
opposition	6756 Aug 10 22:38	23° \approx 27'44	0°53'46				
min. Earth dist.	6756 Aug 11 13:48	23° \approx 26'42	29.30711 AU	conjunction	6763 Feb 26 07:18	7° \approx 36'50	0°34'49
direct	6756 Oct 30 20:14	22° \approx 03'29		minimum elong	6763 Feb 26 07:18	7° \approx 36'50	0°34'50
evening set	6757 Jan 28 10:14	23° \approx 58'31		max. Earth dist.	6763 Feb 25 20:40	7° \approx 35'50	31.26899 AU
				morning rise	6763 Mar 13 16:03	8° \approx 11'16	
conjunction	6757 Feb 12 21:42	24° \approx 33'05	0°49'14	retrograde	6763 Jun 09 06:49	10° \approx 04'51	
minimum elong	6757 Feb 12 21:42	24° \approx 33'05	0°49'15	opposition	6763 Aug 27 11:25	8° \approx 42'30	0°35'49
max. Earth dist.	6757 Feb 12 06:08	24° \approx 31'37	31.30313 AU	min. Earth dist.	6763 Aug 27 21:52	8° \approx 41'47	29.26570 AU
morning rise	6757 Feb 28 07:24	25° \approx 07'29		direct	6763 Nov 16 04:39	7° \approx 18'33	
retrograde	6757 May 26 15:32	27° \approx 00'24		evening set	6764 Feb 13 06:59	9° \approx 13'25	
opposition	6757 Aug 13 10:32	25° \approx 38'11	0°51'25				
min. Earth dist.	6757 Aug 14 00:12	25° \approx 37'15	29.30001 AU	conjunction	6764 Feb 28 16:53	9° \approx 47'57	0°32'13
direct	6757 Nov 02 07:13	24° \approx 13'56		minimum elong	6764 Feb 28 16:53	9° \approx 47'58	0°32'15
evening set	6758 Jan 30 19:53	26° \approx 08'55		max. Earth dist.	6764 Feb 28 05:41	9° \approx 46'55	31.26181 AU
				morning rise	6764 Mar 15 01:41	10° \approx 22'24	
conjunction	6758 Feb 15 07:16	26° \approx 43'28	0°47'00	retrograde	6764 Jun 10 18:58	12° \approx 16'08	
minimum elong	6758 Feb 15 07:16	26° \approx 43'28	0°47'02	opposition	6764 Aug 28 23:54	10° \approx 53'45	0°33'00
max. Earth dist.	6758 Feb 14 17:18	26° \approx 42'10	31.29638 AU	min. Earth dist.	6764 Aug 29 09:55	10° \approx 53'04	29.25792 AU
morning rise	6758 Mar 02 16:41	27° \approx 17'52		direct	6764 Nov 17 14:46	9° \approx 29'50	
retrograde	6758 May 29 01:21	29° \approx 10'52		evening set	6765 Feb 14 16:52	11° \approx 24'41	

conjunction	6765 Mar 02 02:46	11° \mathbf{K} 59'13	0°29'34	morning rise	6771 Mar 30 21:01	25° \mathbf{K} 41'28	
minimum elong	6765 Mar 02 02:46	11° \mathbf{K} 59'13	0°29'35	retrograde	6771 Jun 27 01:52	27° \mathbf{K} 36'00	
max. Earth dist.	6765 Mar 01 16:58	11° \mathbf{K} 58'18	31.25329 AU	opposition	6771 Sep 14 15:45	26° \mathbf{K} 13'04	0°12'16
morning rise	6765 Mar 17 11:18	12° \mathbf{K} 33'40		min. Earth dist.	6771 Sep 14 21:12	26° \mathbf{K} 12'42	29.18189 AU
retrograde	6765 Jun 13 05:38	14° \mathbf{K} 27'32		direct	6771 Dec 04 01:49	24° \mathbf{K} 49'15	
opposition	6765 Aug 31 12:28	13° \mathbf{K} 05'05	0°30'09	evening set	6772 Mar 01 13:07	26° \mathbf{K} 43'46	
min. Earth dist.	6765 Aug 31 22:27	13° \mathbf{K} 04'24	29.24864 AU				
direct	6765 Nov 20 02:48	11° \mathbf{K} 41'13		conjunction	6772 Mar 16 22:05	27° \mathbf{K} 18'19	0°10'05
evening set	6766 Feb 17 02:49	13° \mathbf{K} 36'00		minimum elong	6772 Mar 16 22:05	27° \mathbf{K} 18'19	0°10'06
				behind sun begin	6772 Mar 16 16:54	27° \mathbf{K} 17'51	
conjunction	6766 Mar 04 12:25	14° \mathbf{K} 10'33	0°26'52	behind sun end	6772 Mar 17 03:16	27° \mathbf{K} 18'47	
minimum elong	6766 Mar 04 12:25	14° \mathbf{K} 10'33	0°26'54	max. Earth dist.	6772 Mar 16 17:31	27° \mathbf{K} 17'55	31.17731 AU
max. Earth dist.	6766 Mar 04 02:00	14° \mathbf{K} 09'34	31.24339 AU	morning rise	6772 Apr 01 06:27	27° \mathbf{K} 52'52	
morning rise	6766 Mar 19 21:04	14° \mathbf{K} 45'00		retrograde	6772 Jun 28 12:02	29° \mathbf{K} 47'32	
retrograde	6766 Jun 15 18:27	16° \mathbf{K} 38'59		opposition	6772 Sep 16 04:28	28° \mathbf{K} 24'34	0°09'12
opposition	6766 Sep 03 00:56	15° \mathbf{K} 16'28	0°27'15	min. Earth dist.	6772 Sep 16 08:39	28° \mathbf{K} 24'17	29.17295 AU
min. Earth dist.	6766 Sep 03 09:47	15° \mathbf{K} 15'52	29.23802 AU	direct	6772 Dec 05 13:52	27° \mathbf{K} 00'48	
direct	6766 Nov 22 13:34	13° \mathbf{K} 52'35		evening set	6773 Mar 03 22:56	28° \mathbf{K} 55'17	
evening set	6767 Feb 19 12:39	15° \mathbf{K} 47'21					
				conjunction	6773 Mar 19 07:39	29° \mathbf{K} 29'51	0°07'13
conjunction	6767 Mar 06 22:13	16° \mathbf{K} 21'53	0°24'09	minimum elong	6773 Mar 19 07:38	29° \mathbf{K} 29'51	0°07'13
minimum elong	6767 Mar 06 22:13	16° \mathbf{K} 21'53	0°24'09	behind sun begin	6773 Mar 19 01:44	29° \mathbf{K} 29'18	
max. Earth dist.	6767 Mar 06 12:58	16° \mathbf{K} 21'01	31.23212 AU	behind sun end	6773 Mar 19 13:33	29° \mathbf{K} 30'23	
morning rise	6767 Mar 22 06:41	16° \mathbf{K} 56'22		max. Earth dist.	6773 Mar 19 02:59	29° \mathbf{K} 29'26	31.16880 AU
retrograde	6767 Jun 18 04:54	18° \mathbf{K} 50'26			6773 Apr 01 16:32	0° \mathbf{Y}	
opposition	6767 Sep 05 13:30	17° \mathbf{K} 27'50	0°24'19	morning rise	6773 Apr 03 16:12	0° \mathbf{Y} 04'25	
min. Earth dist.	6767 Sep 05 22:49	17° \mathbf{K} 27'12	29.22626 AU	retrograde	6773 Jul 01 00:14	1° \mathbf{Y} 59'14	
direct	6767 Nov 25 01:16	16° \mathbf{K} 03'58		opposition	6773 Sep 18 17:09	0° \mathbf{Y} 36'14	0°06'07
evening set	6768 Feb 21 22:31	17° \mathbf{K} 58'39		min. Earth dist.	6773 Sep 18 20:28	0° \mathbf{Y} 36'00	29.16476 AU
					6773 Oct 11 16:48	30° \mathbf{R} \mathbf{K}	
conjunction	6768 Mar 08 07:52	18° \mathbf{K} 33'12	0°21'23	direct	6773 Dec 07 23:51	29° \mathbf{K} 12'30	
minimum elong	6768 Mar 08 07:51	18° \mathbf{K} 33'12	0°21'24		6774 Jan 31 11:16	0° \mathbf{Y}	
max. Earth dist.	6768 Mar 07 22:55	18° \mathbf{K} 32'22	31.22020 AU	evening set	6774 Mar 06 08:34	1° \mathbf{Y} 06'58	
morning rise	6768 Mar 23 16:23	19° \mathbf{K} 07'40					
retrograde	6768 Jun 19 17:20	21° \mathbf{K} 01'51		conjunction	6774 Mar 21 17:23	1° \mathbf{Y} 41'32	0°04'20
opposition	6768 Sep 07 02:02	19° \mathbf{K} 39'09	0°21'21	minimum elong	6774 Mar 21 17:23	1° \mathbf{Y} 41'32	0°04'20
min. Earth dist.	6768 Sep 07 09:36	19° \mathbf{K} 38'38	29.21419 AU	behind sun begin	6774 Mar 21 11:05	1° \mathbf{Y} 40'58	
direct	6768 Nov 26 14:43	18° \mathbf{K} 15'16		behind sun end	6774 Mar 21 23:41	1° \mathbf{Y} 42'07	
evening set	6769 Feb 23 08:07	20° \mathbf{K} 09'54		max. Earth dist.	6774 Mar 21 14:34	1° \mathbf{Y} 41'19	31.16067 AU
				morning rise	6774 Apr 06 01:50	2° \mathbf{Y} 16'07	
conjunction	6769 Mar 10 17:20	20° \mathbf{K} 44'27	0°18'36	retrograde	6774 Jul 03 10:32	4° \mathbf{Y} 11'06	
minimum elong	6769 Mar 10 17:20	20° \mathbf{K} 44'27	0°18'36	opposition	6774 Sep 21 05:59	2° \mathbf{Y} 48'04	0°03'00
max. Earth dist.	6769 Mar 10 09:20	20° \mathbf{K} 43'42	31.20817 AU	min. Earth dist.	6774 Sep 21 08:57	2° \mathbf{Y} 47'52	29.15658 AU
morning rise	6769 Mar 26 01:49	21° \mathbf{K} 18'56		direct	6774 Dec 10 11:07	1° \mathbf{Y} 24'24	
retrograde	6769 Jun 22 05:08	23° \mathbf{K} 13'13		evening set	6775 Mar 08 18:29	3° \mathbf{Y} 18'50	
opposition	6769 Sep 09 14:43	21° \mathbf{K} 50'26	0°18'21				
min. Earth dist.	6769 Sep 09 22:24	21° \mathbf{K} 49'54	29.20249 AU	conjunction	6775 Mar 24 03:05	3° \mathbf{Y} 53'25	0°01'24
direct	6769 Nov 29 02:32	20° \mathbf{K} 26'33		minimum elong	6775 Mar 24 03:04	3° \mathbf{Y} 53'25	0°01'23
evening set	6770 Feb 25 17:50	22° \mathbf{K} 21'08		behind sun begin	6775 Mar 23 20:40	3° \mathbf{Y} 52'50	
				behind sun end	6775 Mar 24 09:28	3° \mathbf{Y} 54'00	
conjunction	6770 Mar 13 02:59	22° \mathbf{K} 55'41	0°15'47	max. Earth dist.	6775 Mar 24 00:02	3° \mathbf{Y} 53'11	31.15247 AU
minimum elong	6770 Mar 13 02:59	22° \mathbf{K} 55'41	0°15'48	morning rise	6775 Apr 08 11:40	4° \mathbf{Y} 28'01	
behind sun begin	6770 Mar 13 01:28	22° \mathbf{K} 55'32		retrograde	6775 Jul 05 23:34	6° \mathbf{Y} 23'09	
behind sun end	6770 Mar 13 04:29	22° \mathbf{K} 55'49		desc. node	6775 Sep 11 19:00	5° \mathbf{Y} 19'25	
max. Earth dist.	6770 Mar 12 20:14	22° \mathbf{K} 55'03	31.19690 AU	opposition	6775 Sep 23 18:47	5° \mathbf{Y} 00'04	-0°00'06
morning rise	6770 Mar 28 11:24	23° \mathbf{K} 30'11		min. Earth dist.	6775 Sep 23 20:22	4° \mathbf{Y} 59'58	29.14819 AU
retrograde	6770 Jun 24 14:59	25° \mathbf{K} 24'34		direct	6775 Dec 12 20:57	3° \mathbf{Y} 36'27	
opposition	6770 Sep 12 03:04	24° \mathbf{K} 01'43	0°15'19	evening set	6776 Mar 10 04:25	5° \mathbf{Y} 30'52	
min. Earth dist.	6770 Sep 12 08:53	24° \mathbf{K} 01'19	29.19163 AU				
direct	6770 Dec 01 15:09	22° \mathbf{K} 37'51		conjunction	6776 Mar 25 13:01	6° \mathbf{Y} 05'28	-0°01'36
evening set	6771 Feb 28 03:35	24° \mathbf{K} 32'24		minimum elong	6776 Mar 25 13:00	6° \mathbf{Y} 05'28	0°01'36
				behind sun begin	6776 Mar 25 06:36	6° \mathbf{Y} 04'53	
conjunction	6771 Mar 15 12:31	25° \mathbf{K} 06'57	0°12'57	behind sun end	6776 Mar 25 19:25	6° \mathbf{Y} 06'02	
minimum elong	6771 Mar 15 12:31	25° \mathbf{K} 06'57	0°12'57	max. Earth dist.	6776 Mar 25 11:13	6° \mathbf{Y} 05'22	31.14371 AU
behind sun begin	6771 Mar 15 08:31	25° \mathbf{K} 06'35		morning rise	6776 Apr 09 21:33	6° \mathbf{Y} 40'05	
behind sun end	6771 Mar 15 16:31	25° \mathbf{K} 07'18		retrograde	6776 Jul 07 11:06	8° \mathbf{Y} 35'22	
max. Earth dist.	6771 Mar 15 05:59	25° \mathbf{K} 06'21	31.18656 AU	opposition	6776 Sep 25 07:54	7° \mathbf{Y} 12'14	-0°03'13

min. Earth dist.	6776 Sep 25 09:50	7°♈12'06	29.13908 AU	morning rise	6782 Apr 23 10:10	19°♈53'30	
direct	6776 Dec 14 08:20	5°♈48'39		retrograde	6782 Jul 21 11:22	21°♈49'28	
evening set	6777 Mar 12 14:21	7°♈43'03		opposition	6782 Oct 09 14:04	20°♈25'48	-0°21'38
				min. Earth dist.	6782 Oct 09 11:20	20°♈25'59	29.06769 AU
conjunction	6777 Mar 27 22:51	8°♈17'38	-0°04'32	direct	6782 Dec 28 09:18	19°♈02'12	
minimum elong	6777 Mar 27 22:52	8°♈17'38	0°04'33	evening set	6783 Mar 26 02:22	20°♈56'17	
behind sun begin	6777 Mar 27 16:36	8°♈17'04					
behind sun end	6777 Mar 28 05:09	8°♈18'12		conjunction	6783 Apr 10 10:56	21°♈30'56	-0°21'40
max. Earth dist.	6777 Mar 27 21:23	8°♈17'32	31.13419 AU	minimum elong	6783 Apr 10 10:56	21°♈30'56	0°21'42
morning rise	6777 Apr 12 07:32	8°♈52'16		max. Earth dist.	6783 Apr 10 14:23	21°♈31'15	31.06202 AU
retrograde	6777 Jul 10 00:42	10°♈47'42		morning rise	6783 Apr 25 20:09	22°♈05'41	
opposition	6777 Sep 27 20:53	9°♈24'30	-0°06'19	retrograde	6783 Jul 23 21:28	22°♈01'48	
min. Earth dist.	6777 Sep 27 21:18	9°♈24'29	29.12897 AU	opposition	6783 Oct 12 03:07	22°♈38'04	-0°24'38
direct	6777 Dec 16 21:11	8°♈00'56		min. Earth dist.	6783 Oct 11 23:41	22°♈38'18	29.05684 AU
evening set	6778 Mar 15 00:29	9°♈55'18		direct	6783 Dec 30 20:54	21°♈14'30	
				evening set	6784 Mar 27 12:28	23°♈08'33	
conjunction	6778 Mar 30 08:57	10°♈29'54	-0°07'25				
minimum elong	6778 Mar 30 08:57	10°♈29'54	0°07'25	conjunction	6784 Apr 11 20:57	23°♈43'13	-0°24'26
behind sun begin	6778 Mar 30 03:05	10°♈29'22		minimum elong	6784 Apr 11 20:57	23°♈43'13	0°24'28
behind sun end	6778 Mar 30 14:49	10°♈30'26		max. Earth dist.	6784 Apr 12 00:32	23°♈43'33	31.05189 AU
max. Earth dist.	6778 Mar 30 07:48	10°♈29'49	31.12339 AU	morning rise	6784 Apr 27 06:26	24°♈18'00	
morning rise	6778 Apr 14 17:42	11°♈04'33		retrograde	6784 Jul 25 10:48	26°♈14'16	
retrograde	6778 Jul 12 13:11	13°♈00'06		opposition	6784 Oct 13 16:11	24°♈50'29	-0°27'35
opposition	6778 Sep 30 09:54	11°♈36'50	-0°09'25	min. Earth dist.	6784 Oct 13 10:59	24°♈50'51	29.04733 AU
min. Earth dist.	6778 Sep 30 10:53	11°♈36'46	29.11763 AU	direct	6785 Jan 01 06:39	23°♈26'58	
direct	6778 Dec 19 08:34	10°♈13'16		evening set	6785 Mar 29 22:25	25°♈21'00	
evening set	6779 Mar 17 10:32	12°♈07'34					
conjunction	6779 Apr 01 19:04	12°♈42'11	-0°10'18	conjunction	6785 Apr 14 07:04	25°♈55'41	-0°27'11
minimum elong	6779 Apr 01 19:04	12°♈42'11	0°10'19	minimum elong	6785 Apr 14 07:03	25°♈55'41	0°27'14
behind sun begin	6779 Apr 01 13:58	12°♈41'43		max. Earth dist.	6785 Apr 14 12:10	25°♈56'10	31.04281 AU
behind sun end	6779 Apr 02 00:11	12°♈42'39		morning rise	6785 Apr 29 16:38	26°♈30'29	
max. Earth dist.	6779 Apr 01 18:51	12°♈42'10	31.11154 AU	retrograde	6785 Jul 27 22:31	28°♈26'55	
morning rise	6779 Apr 17 03:50	13°♈16'51		opposition	6785 Oct 16 05:21	27°♈03'07	-0°30'31
retrograde	6779 Jul 15 00:27	15°♈12'30		min. Earth dist.	6785 Oct 16 00:10	27°♈03'28	29.03872 AU
opposition	6779 Oct 02 22:55	13°♈49'08	-0°12'30	direct	6786 Jan 03 17:40	25°♈39'39	
min. Earth dist.	6779 Oct 02 22:24	13°♈49'11	29.10518 AU	evening set	6786 Apr 01 08:35	27°♈33'41	
direct	6779 Dec 21 21:57	12°♈25'34					
evening set	6780 Mar 18 20:31	14°♈19'48		conjunction	6786 Apr 16 17:16	28°♈08'23	-0°29'54
				minimum elong	6786 Apr 16 17:16	28°♈08'23	0°29'55
conjunction	6780 Apr 03 04:56	14°♈54'26	-0°13'10	max. Earth dist.	6786 Apr 16 23:03	28°♈08'55	31.03464 AU
minimum elong	6780 Apr 03 04:55	14°♈54'26	0°13'11	morning rise	6786 May 02 03:03	28°♈43'13	
behind sun begin	6780 Apr 03 01:03	14°♈54'05			6786 Jun 10 18:42	0°♈	
behind sun end	6780 Apr 03 08:47	14°♈54'47		retrograde	6786 Jul 30 12:36	0°♈39'48	
max. Earth dist.	6780 Apr 03 04:36	14°♈54'24	31.09875 AU		6786 Sep 20 10:03	30°♈	
morning rise	6780 Apr 18 13:55	15°♈29'07		opposition	6786 Oct 18 18:15	29°♈15'58	-0°33'23
retrograde	6780 Jul 16 12:36	17°♈24'53		min. Earth dist.	6786 Oct 18 11:20	29°♈16'26	29.03076 AU
opposition	6780 Oct 04 12:06	16°♈01'24	-0°15'35	direct	6787 Jan 06 05:33	27°♈52'33	
min. Earth dist.	6780 Oct 04 11:30	16°♈01'26	29.09230 AU	evening set	6787 Apr 03 18:53	29°♈46'36	
direct	6780 Dec 23 09:41	14°♈37'49			6787 Apr 09 18:28	0°♈	
evening set	6781 Mar 21 06:26	16°♈31'59		conjunction	6787 Apr 19 03:35	0°♈21'20	-0°32'34
				minimum elong	6787 Apr 19 03:35	0°♈21'20	0°32'37
conjunction	6781 Apr 05 14:59	17°♈06'37	-0°16'01	max. Earth dist.	6787 Apr 19 10:00	0°♈21'56	31.02676 AU
minimum elong	6781 Apr 05 14:59	17°♈06'37	0°16'03	morning rise	6787 May 04 13:34	0°♈56'11	
behind sun begin	6781 Apr 05 14:01	17°♈06'32		retrograde	6787 Aug 02 01:55	2°♈52'57	
behind sun end	6781 Apr 05 15:58	17°♈06'42		opposition	6787 Oct 21 07:36	1°♈29'05	-0°36'13
max. Earth dist.	6781 Apr 05 16:31	17°♈06'45	31.08585 AU	min. Earth dist.	6787 Oct 21 01:02	1°♈29'32	29.02303 AU
morning rise	6781 Apr 20 23:58	17°♈41'19		direct	6788 Jan 08 15:59	0°♈05'45	
retrograde	6781 Jul 18 23:14	19°♈37'11		evening set	6788 Apr 05 05:05	1°♈59'48	
opposition	6781 Oct 07 01:02	18°♈13'36	-0°18'37				
min. Earth dist.	6781 Oct 06 23:16	18°♈13'43	29.07954 AU	conjunction	6788 Apr 20 13:58	2°♈34'32	-0°35'12
direct	6781 Dec 25 22:45	16°♈50'00		minimum elong	6788 Apr 20 13:58	2°♈34'32	0°35'13
evening set	6782 Mar 23 16:28	18°♈44'07		max. Earth dist.	6788 Apr 20 21:35	2°♈35'15	31.01897 AU
				morning rise	6788 May 06 00:02	3°♈09'25	
conjunction	6782 Apr 08 00:54	19°♈18'45	-0°18'51	retrograde	6788 Aug 03 14:42	5°♈06'20	
minimum elong	6782 Apr 08 00:53	19°♈18'45	0°18'52	opposition	6788 Oct 22 20:51	3°♈42'28	-0°39'00
max. Earth dist.	6782 Apr 08 02:20	19°♈18'53	31.07345 AU	min. Earth dist.	6788 Oct 22 12:44	3°♈43'01	29.01499 AU

direct	6789 Jan 10 05:03	2°819'10	minimum elong	6795 May 06 17:14	18°810'01 0°51'58
evening set	6789 Apr 07 15:40	4°813'13	max. Earth dist.	6795 May 07 04:26	18°811'05 30.94356 AU
			morning rise	6795 May 22 05:00	18°845'05
conjunction	6789 Apr 23 00:30	4°847'59 -0°37'46	retrograde	6795 Aug 20 05:42	20°842'44
minimum elong	6789 Apr 23 00:30	4°847'59 0°37'49	opposition	6795 Nov 08 17:54	19°818'18 -0°56'38
max. Earth dist.	6789 Apr 23 07:48	4°848'40 31.01058 AU	min. Earth dist.	6795 Nov 08 05:46	19°819'08 28.93860 AU
morning rise	6789 May 08 10:55	5°822'54	direct	6796 Jan 26 16:43	17°854'56
retrograde	6789 Aug 06 04:58	7°819'58	evening set	6796 Apr 22 18:02	19°848'42
opposition	6789 Oct 25 10:09	5°856'03 -0°41'44			
min. Earth dist.	6789 Oct 25 02:18	5°856'35 29.00629 AU	conjunction	6796 May 08 03:59	20°823'35 -0°54'01
direct	6790 Jan 12 16:53	4°832'47	minimum elong	6796 May 08 03:59	20°823'35 0°54'03
evening set	6790 Apr 10 02:12	6°826'50	max. Earth dist.	6796 May 08 15:53	20°824'42 30.93328 AU
			morning rise	6796 May 23 16:06	20°858'41
conjunction	6790 Apr 25 11:19	7°801'37 -0°40'17	retrograde	6796 Aug 21 18:23	22°856'26
minimum elong	6790 Apr 25 11:19	7°801'37 0°40'19	opposition	6796 Nov 10 07:14	21°831'55 -0°58'51
max. Earth dist.	6790 Apr 25 20:00	7°802'26 31.00128 AU	min. Earth dist.	6796 Nov 09 19:18	21°832'44 28.92903 AU
morning rise	6790 May 10 21:47	7°836'34	direct	6797 Jan 28 02:45	20°808'33
retrograde	6790 Aug 08 17:08	9°833'45	evening set	6797 Apr 25 04:45	22°802'18
opposition	6790 Oct 27 23:29	8°809'47 -0°44'23			
min. Earth dist.	6790 Oct 27 14:51	8°810'22 28.99633 AU	conjunction	6797 May 10 15:02	22°837'12 -0°56'03
direct	6791 Jan 15 06:30	6°846'33	minimum elong	6797 May 10 15:02	22°837'12 0°56'06
evening set	6791 Apr 12 12:53	8°840'33	max. Earth dist.	6797 May 11 04:17	22°838'27 30.92433 AU
			morning rise	6797 May 26 03:21	23°812'19
conjunction	6791 Apr 27 21:57	9°815'21 -0°42'45	retrograde	6797 Aug 24 07:50	25°810'10
minimum elong	6791 Apr 27 21:57	9°815'21 0°42'48	opposition	6797 Nov 12 20:12	23°845'37 -1°00'59
max. Earth dist.	6791 Apr 28 06:00	9°816'07 30.99073 AU	min. Earth dist.	6797 Nov 12 06:34	23°846'33 28.92061 AU
morning rise	6791 May 13 08:48	9°850'20	direct	6798 Jan 30 15:54	22°822'15
retrograde	6791 Aug 11 05:46	11°847'38	evening set	6798 Apr 27 15:40	24°816'00
opposition	6791 Oct 30 12:55	10°823'35 -0°46'59			
min. Earth dist.	6791 Oct 30 03:56	10°824'12 28.98527 AU	conjunction	6798 May 13 02:02	24°850'56 -0°57'59
direct	6792 Jan 17 17:40	9°800'20	minimum elong	6798 May 13 02:01	24°850'56 0°58'02
evening set	6792 Apr 13 23:29	10°854'18	max. Earth dist.	6798 May 13 15:08	24°852'10 30.91639 AU
			morning rise	6798 May 28 14:47	25°826'05
conjunction	6792 Apr 29 08:51	11°829'07 -0°45'08	retrograde	6798 Aug 26 22:33	27°824'02
minimum elong	6792 Apr 29 08:51	11°829'07 0°45'11	opposition	6798 Nov 15 09:28	25°859'27 -1°03'01
max. Earth dist.	6792 Apr 29 18:21	11°830'01 30.97911 AU	min. Earth dist.	6798 Nov 14 19:52	26°800'23 28.91321 AU
morning rise	6792 May 14 19:47	12°804'07	direct	6799 Feb 02 03:11	24°836'07
retrograde	6792 Aug 12 16:12	14°801'30	evening set	6799 Apr 30 02:24	26°829'52
opposition	6792 Nov 01 02:17	12°837'22 -0°49'31			
min. Earth dist.	6792 Oct 31 17:07	12°838'00 28.97327 AU	conjunction	6799 May 15 13:09	27°804'49 -0°59'51
direct	6793 Jan 19 06:30	11°814'05	minimum elong	6799 May 15 13:09	27°804'49 0°59'55
evening set	6793 Apr 16 10:05	13°807'59	max. Earth dist.	6799 May 16 04:01	27°806'14 30.90931 AU
			morning rise	6799 May 31 02:02	27°840'00
conjunction	6793 May 01 19:33	13°842'49 -0°47'28	retrograde	6799 Aug 29 11:12	29°838'05
minimum elong	6793 May 01 19:32	13°842'49 0°47'31	opposition	6799 Nov 17 22:42	28°813'28 -1°04'57
max. Earth dist.	6793 May 02 04:49	13°843'42 30.96699 AU	min. Earth dist.	6799 Nov 17 08:01	28°814'29 28.90636 AU
morning rise	6793 May 17 06:53	14°817'51	direct	6800 Feb 04 16:25	26°850'11
	6793 Jun 06 06:00	15°8	evening set	6800 May 01 13:32	28°843'56
retrograde	6793 Aug 15 05:54	16°815'19			
	6793 Oct 29 04:53	15°88	conjunction	6800 May 17 00:22	29°818'55 -1°01'37
opposition	6793 Nov 03 15:32	14°851'04 -0°51'58	minimum elong	6800 May 17 00:21	29°818'55 1°01'40
min. Earth dist.	6793 Nov 03 05:05	14°851'47 28.96114 AU	max. Earth dist.	6800 May 17 14:48	29°820'17 30.90270 AU
direct	6794 Jan 21 17:34	13°827'45	morning rise	6800 Jun 01 13:44	29°854'08
	6794 Apr 08 21:56	15°8		6800 Jun 04 05:22	0°II
evening set	6794 Apr 18 20:44	15°821'36	retrograde	6800 Aug 31 01:21	1°II52'19
			opposition	6800 Nov 19 11:57	0°II27'42 -1°06'48
conjunction	6794 May 04 06:23	15°856'27 -0°49'43	min. Earth dist.	6800 Nov 18 21:00	0°II28'44 28.89992 AU
minimum elong	6794 May 04 06:23	15°856'27 0°49'46		6800 Dec 06 14:13	30°R8
max. Earth dist.	6794 May 04 16:53	15°857'26 30.95485 AU	direct	6801 Feb 06 03:18	29°804'26
morning rise	6794 May 19 17:54	16°831'30		6801 Apr 05 10:13	0°II
retrograde	6794 Aug 17 16:25	18°829'03	evening set	6801 May 04 00:37	0°II58'13
opposition	6794 Nov 06 04:43	17°804'42 -0°54'21			
min. Earth dist.	6794 Nov 05 18:26	17°805'25 28.94935 AU	conjunction	6801 May 19 11:51	1°II33'13 -1°03'17
direct	6795 Jan 24 05:13	15°841'21	minimum elong	6801 May 19 11:51	1°II33'13 1°03'21
evening set	6795 Apr 21 07:24	17°835'09	max. Earth dist.	6801 May 20 03:42	1°II34'44 30.89606 AU
			morning rise	6801 Jun 04 01:24	2°II08'29
conjunction	6795 May 06 17:14	18°810'01 -0°51'55	retrograde	6801 Sep 02 13:28	4°II06'46

min. Earth dist.	6801 Nov 21 10:13	2°II43'10	28.89304 AU	max. Earth dist.	6808 Jun 04 16:22	17°II17'35	30.83430 AU
opposition	6801 Nov 22 01:12	2°II42'08	-1°08'32	morning rise	6808 Jun 19 14:06	17°II51'18	
direct	6802 Feb 08 16:15	1°II18'55		retrograde	6808 Sep 18 09:43	19°II50'02	
evening set	6802 May 06 12:02	3°II12'42		opposition	6808 Dec 07 20:57	18°II24'59	-1°17'43
				min. Earth dist.	6808 Dec 07 03:13	18°II26'13	28.83136 AU
conjunction	6802 May 21 23:24	3°II47'44	-1°04'52	direct	6809 Feb 24 02:33	17°II01'34	
minimum elong	6802 May 21 23:24	3°II47'44	1°04'55	evening set	6809 May 21 20:12	18°II55'16	
max. Earth dist.	6802 May 22 14:38	3°II49'11	30.88887 AU				
morning rise	6802 Jun 06 13:22	4°II23'01		conjunction	6809 Jun 06 09:50	19°II30'28	-1°13'05
retrograde	6802 Sep 05 04:07	6°II21'25		minimum elong	6809 Jun 06 09:50	19°II30'28	1°13'09
opposition	6802 Nov 24 14:22	4°II56'46	-1°10'11	max. Earth dist.	6809 Jun 07 03:44	19°II32'10	30.82754 AU
min. Earth dist.	6802 Nov 23 22:36	4°II57'51	28.88547 AU	morning rise	6809 Jun 22 02:31	20°II05'57	
direct	6803 Feb 11 03:33	3°II33'33		retrograde	6809 Sep 21 00:29	22°II04'43	
evening set	6803 May 08 23:26	5°II27'21		opposition	6809 Dec 10 09:52	20°II39'38	-1°18'34
				min. Earth dist.	6809 Dec 09 15:50	20°II40'53	28.82541 AU
conjunction	6803 May 24 11:08	6°II02'24	-1°06'21	direct	6810 Feb 26 13:54	19°II16'12	
minimum elong	6803 May 24 11:08	6°II02'24	1°06'25	evening set	6810 May 24 07:43	21°II09'54	
max. Earth dist.	6803 May 25 03:02	6°II03'55	30.88069 AU				
morning rise	6803 Jun 09 01:23	6°II37'43		conjunction	6810 Jun 08 21:49	21°II45'08	-1°13'50
retrograde	6803 Sep 07 15:14	8°II36'13		minimum elong	6810 Jun 08 21:49	21°II45'08	1°13'53
opposition	6803 Nov 27 03:44	7°II11'31	-1°11'43	max. Earth dist.	6810 Jun 09 17:19	21°II46'59	30.82219 AU
min. Earth dist.	6803 Nov 26 12:35	7°II12'34	28.87680 AU	morning rise	6810 Jun 24 14:43	22°II20'39	
direct	6804 Feb 13 15:19	5°II48'17		retrograde	6810 Sep 23 13:37	24°II19'28	
evening set	6804 May 10 10:48	7°II42'04		opposition	6810 Dec 12 22:41	22°II54'22	-1°19'18
				min. Earth dist.	6810 Dec 12 04:18	22°II55'38	28.82075 AU
conjunction	6804 May 25 22:50	8°II17'09	-1°07'44	direct	6811 Mar 01 03:34	21°II30'56	
minimum elong	6804 May 25 22:50	8°II17'09	1°07'47	evening set	6811 May 26 19:25	23°II24'38	
max. Earth dist.	6804 May 26 14:48	8°II18'40	30.87162 AU				
morning rise	6804 Jun 10 13:29	8°II52'30		conjunction	6811 Jun 11 09:49	23°II59'54	-1°14'28
retrograde	6804 Sep 09 04:45	10°II51'03		minimum elong	6811 Jun 11 09:49	23°II59'54	1°14'32
opposition	6804 Nov 28 16:56	9°II26'17	-1°13'08	max. Earth dist.	6811 Jun 12 04:58	24°II01'43	30.81833 AU
min. Earth dist.	6804 Nov 28 00:39	9°II27'25	28.86726 AU	morning rise	6811 Jun 27 03:15	24°II35'27	
direct	6805 Feb 15 02:56	8°II03'02		retrograde	6811 Sep 26 04:11	26°II34'19	
evening set	6805 May 12 22:19	9°II56'47		opposition	6811 Dec 15 11:32	25°II09'12	-1°19'55
				min. Earth dist.	6811 Dec 14 16:12	25°II10'33	28.81753 AU
conjunction	6805 May 28 10:38	10°II31'53	-1°09'01	direct	6812 Mar 02 15:04	23°II45'47	
minimum elong	6805 May 28 10:38	10°II31'53	1°09'05	evening set	6812 May 28 07:07	25°II39'30	
max. Earth dist.	6805 May 29 02:40	10°II33'25	30.86172 AU				
morning rise	6805 Jun 13 01:43	11°II07'16		conjunction	6812 Jun 12 21:57	26°II14'47	-1°14'59
retrograde	6805 Sep 11 17:10	13°II05'53		minimum elong	6812 Jun 12 21:57	26°II14'47	1°15'02
opposition	6805 Dec 01 06:01	11°II41'02	-1°14'27	max. Earth dist.	6812 Jun 13 18:05	26°II16'42	30.81552 AU
min. Earth dist.	6805 Nov 30 14:34	11°II42'06	28.85730 AU	morning rise	6812 Jun 28 15:46	26°II50'23	
direct	6806 Feb 17 12:51	10°II17'44		retrograde	6812 Sep 27 15:43	28°II49'17	
evening set	6806 May 15 09:44	12°II11'28		min. Earth dist.	6812 Dec 16 05:37	27°II25'29	28.81512 AU
				opposition	6812 Dec 17 00:27	27°II24'11	-1°20'25
conjunction	6806 May 30 22:28	12°II46'35	-1°10'12	direct	6813 Mar 05 02:53	26°II00'47	
minimum elong	6806 May 30 22:28	12°II46'35	1°10'15	evening set	6813 May 30 19:05	27°II54'31	
max. Earth dist.	6806 May 31 15:28	12°II48'12	30.85184 AU				
morning rise	6806 Jun 15 13:50	13°II22'00		conjunction	6813 Jun 15 10:20	28°II29'50	-1°15'23
retrograde	6806 Sep 14 06:38	15°II20'38		minimum elong	6813 Jun 15 10:20	28°II29'50	1°15'27
opposition	6806 Dec 03 19:00	13°II55'43	-1°15'39	max. Earth dist.	6813 Jun 16 06:29	28°II31'45	30.81346 AU
min. Earth dist.	6806 Dec 03 02:09	13°II56'53	28.84760 AU	morning rise	6813 Jul 01 04:33	29°II05'27	
direct	6807 Feb 20 02:27	12°II32'22			6813 Jul 27 15:59	0°☾	
evening set	6807 May 17 21:09	14°II26'05		retrograde	6813 Sep 30 06:00	1°☾04'23	
					6813 Dec 07 00:12	30°☾II	
conjunction	6807 Jun 02 10:04	15°II01'14	-1°11'16	opposition	6813 Dec 19 13:04	29°II39'18	-1°20'47
minimum elong	6807 Jun 02 10:04	15°II01'14	1°11'20	min. Earth dist.	6813 Dec 18 17:16	29°II40'41	28.81315 AU
max. Earth dist.	6807 Jun 03 02:47	15°II02'49	30.84247 AU	direct	6814 Mar 07 14:24	28°II15'55	
morning rise	6807 Jun 18 01:56	15°II36'40			6814 May 28 21:33	0°☾	
retrograde	6807 Sep 16 21:07	17°II35'21		evening set	6814 Jun 02 07:15	0°☾09'40	
opposition	6807 Dec 06 08:07	16°II10'22	-1°16'44				
min. Earth dist.	6807 Dec 05 15:28	16°II11'31	28.83886 AU	conjunction	6814 Jun 17 22:48	0°☾45'01	-1°15'40
direct	6808 Feb 22 13:39	14°II46'58		minimum elong	6814 Jun 17 22:48	0°☾45'01	1°15'44
evening set	6808 May 19 08:35	16°II40'40		max. Earth dist.	6814 Jun 18 18:53	0°☾46'55	30.81137 AU
				morning rise	6814 Jul 03 17:29	1°☾20'40	
conjunction	6808 Jun 03 22:00	17°II15'51	-1°12'14	retrograde	6814 Oct 02 18:30	3°☾19'39	
minimum elong	6808 Jun 03 22:00	17°II15'51	1°12'17	min. Earth dist.	6814 Dec 21 07:19	1°☾55'52	28.81097 AU

opposition	6814 Dec 22 02:01	1°☾54'34 -1°21'01	morning rise	6821 Jul 19 13:37	17°☾07'06	
direct	6815 Mar 10 00:33	0°☾31'11	retrograde	6821 Oct 18 16:28	19°☾05'56	
evening set	6815 Jun 04 19:17	2°☾24'56	opposition	6822 Jan 06 17:58	17°☾40'39 -1°19'18	
			min. Earth dist.	6822 Jan 05 23:09	17°☾41'58 28.78831 AU	
conjunction	6815 Jun 20 11:22	3°☾00'19 -1°15'50	direct	6822 Mar 25 14:24	16°☾16'59	
minimum elong	6815 Jun 20 11:22	3°☾00'19 1°15'54	evening set	6822 Jun 20 09:40	18°☾10'43	
max. Earth dist.	6815 Jun 21 07:55	3°☾02'16 30.80892 AU				
morning rise	6815 Jul 06 06:22	3°☾35'59	conjunction	6822 Jul 06 04:49	18°☾46'16 -1°13'49	
retrograde	6815 Oct 05 07:35	5°☾34'59	minimum elong	6822 Jul 06 04:49	18°☾46'16 1°13'53	
opposition	6815 Dec 24 14:50	4°☾09'53 -1°21'09	max. Earth dist.	6822 Jul 07 01:20	18°☾48'13 30.78759 AU	
min. Earth dist.	6815 Dec 23 19:15	4°☾11'15 28.80808 AU	morning rise	6822 Jul 22 02:57	19°☾22'07	
direct	6816 Mar 11 13:38	2°☾46'29	retrograde	6822 Oct 21 07:21	21°☾20'56	
evening set	6816 Jun 06 07:41	4°☾40'15	min. Earth dist.	6823 Jan 08 10:17	19°☾57'03 28.78860 AU	
			opposition	6823 Jan 09 06:13	19°☾55'40 -1°18'33	
conjunction	6816 Jun 22 00:03	5°☾15'39 -1°15'54	direct	6823 Mar 28 02:18	18°☾32'00	
minimum elong	6816 Jun 22 00:03	5°☾15'39 1°15'57	evening set	6823 Jun 22 22:04	20°☾25'45	
max. Earth dist.	6816 Jun 22 19:35	5°☾17'30 30.80560 AU				
morning rise	6816 Jul 07 19:39	5°☾51'21	conjunction	6823 Jul 08 17:36	21°☾01'20 -1°13'05	
retrograde	6816 Oct 06 21:10	7°☾50'21	minimum elong	6823 Jul 08 17:36	21°☾01'20 1°13'08	
min. Earth dist.	6816 Dec 25 09:02	6°☾26'31 28.80441 AU	max. Earth dist.	6823 Jul 09 14:19	21°☾03'18 30.78856 AU	
opposition	6816 Dec 26 03:37	6°☾25'13 -1°21'08	morning rise	6823 Jul 24 16:13	21°☾37'13	
direct	6817 Mar 14 00:04	5°☾01'46	retrograde	6823 Oct 23 19:18	23°☾36'01	
evening set	6817 Jun 08 19:57	6°☾55'32	opposition	6824 Jan 11 18:38	22°☾10'46 -1°17'42	
			min. Earth dist.	6824 Jan 10 23:37	22°☾12'06 28.79032 AU	
conjunction	6817 Jun 24 12:56	7°☾30'57 -1°15'50	direct	6824 Mar 29 12:35	20°☾47'08	
minimum elong	6817 Jun 24 12:56	7°☾30'57 1°15'54	evening set	6824 Jun 24 10:36	22°☾40'55	
max. Earth dist.	6817 Jun 25 09:18	7°☾32'53 30.80158 AU				
morning rise	6817 Jul 10 08:49	8°☾06'40	conjunction	6824 Jul 10 06:44	23°☾16'31 -1°12'13	
retrograde	6817 Oct 09 10:07	10°☾05'38	minimum elong	6824 Jul 10 06:44	23°☾16'31 1°12'17	
opposition	6817 Dec 28 16:14	8°☾40'28 -1°21'01	max. Earth dist.	6824 Jul 11 03:59	23°☾18'32 30.79102 AU	
min. Earth dist.	6817 Dec 27 21:09	8°☾41'48 28.80007 AU	morning rise	6824 Jul 26 05:44	23°☾52'25	
direct	6818 Mar 16 13:01	7°☾16'58	retrograde	6824 Oct 25 08:02	25°☾51'13	
evening set	6818 Jun 11 08:16	9°☾10'43	min. Earth dist.	6825 Jan 12 10:45	24°☾27'25 28.79325 AU	
			opposition	6825 Jan 13 06:40	24°☾26'01 -1°16'43	
conjunction	6818 Jun 27 01:30	9°☾46'09 -1°15'40	direct	6825 Apr 01 00:55	23°☾02'23	
minimum elong	6818 Jun 27 01:30	9°☾46'09 1°15'43	evening set	6825 Jun 26 23:24	24°☾56'13	
max. Earth dist.	6818 Jun 27 20:51	9°☾47'59 30.79721 AU				
morning rise	6818 Jul 12 21:58	10°☾21'54	conjunction	6825 Jul 12 19:51	25°☾31'51 -1°11'15	
retrograde	6818 Oct 12 00:44	12°☾20'51	minimum elong	6825 Jul 12 19:51	25°☾31'51 1°11'18	
min. Earth dist.	6818 Dec 30 10:03	10°☾56'56 28.79583 AU	max. Earth dist.	6825 Jul 13 16:15	25°☾33'47 30.79437 AU	
opposition	6818 Dec 31 04:50	10°☾55'37 -1°20'46	morning rise	6825 Jul 28 19:24	26°☾07'47	
direct	6819 Mar 19 00:42	9°☾32'04	retrograde	6825 Oct 27 21:14	28°☾06'34	
evening set	6819 Jun 13 20:31	11°☾25'47	opposition	6826 Jan 15 18:58	26°☾41'26 -1°15'37	
			min. Earth dist.	6826 Jan 15 00:03	26°☾42'45 28.79695 AU	
conjunction	6819 Jun 29 14:21	12°☾01'16 -1°15'22	direct	6826 Apr 03 10:11	25°☾17'49	
minimum elong	6819 Jun 29 14:21	12°☾01'16 1°15'26	evening set	6826 Jun 29 12:04	27°☾11'42	
max. Earth dist.	6819 Jun 30 10:54	12°☾03'13 30.79316 AU				
morning rise	6819 Jul 15 11:06	12°☾37'02	conjunction	6826 Jul 15 09:06	27°☾47'22 -1°10'10	
retrograde	6819 Oct 14 13:53	14°☾35'56	minimum elong	6826 Jul 15 09:06	27°☾47'22 1°10'13	
opposition	6820 Jan 02 17:19	13°☾10'40 -1°20'24	max. Earth dist.	6826 Jul 16 06:17	27°☾49'22 30.79821 AU	
min. Earth dist.	6820 Jan 01 22:32	13°☾11'59 28.79213 AU	morning rise	6826 Jul 31 08:53	28°☾23'19	
direct	6820 Mar 20 14:21	11°☾47'04		6826 Sep 23 14:27	0°♂	
evening set	6820 Jun 15 08:51	13°☾40'47	retrograde	6826 Oct 30 10:18	0°♂22'05	
				6826 Dec 07 00:37	30°♂☾	
conjunction	6820 Jul 01 03:02	14°☾16'17 -1°14'58	min. Earth dist.	6827 Jan 17 11:53	28°☾58'21 28.80068 AU	
minimum elong	6820 Jul 01 03:02	14°☾16'17 1°15'02	opposition	6827 Jan 18 07:07	28°☾57'00 -1°14'24	
max. Earth dist.	6820 Jul 01 22:52	14°☾18'10 30.79004 AU	direct	6827 Apr 05 22:17	27°☾33'24	
morning rise	6820 Jul 17 00:23	14°☾52'05	evening set	6827 Jul 02 01:08	29°☾27'20	
retrograde	6820 Oct 16 04:17	16°☾50'57		6827 Jul 16 14:30	0°♂	
min. Earth dist.	6821 Jan 03 10:20	15°☾27'01 28.78961 AU				
opposition	6821 Jan 04 05:42	15°☾25'40 -1°19'54	conjunction	6827 Jul 17 22:27	0°♂03'01 -1°08'58	
direct	6821 Mar 23 02:08	14°☾02'01	minimum elong	6827 Jul 17 22:28	0°♂03'01 1°09'01	
evening set	6821 Jun 17 21:15	15°☾55'45	max. Earth dist.	6827 Jul 18 18:10	0°♂04'52 30.80181 AU	
			morning rise	6827 Aug 02 22:50	0°♂38'59	
conjunction	6821 Jul 03 15:56	16°☾31'16 -1°14'27	retrograde	6827 Nov 02 00:45	2°♂37'44	
minimum elong	6821 Jul 03 15:56	16°☾31'16 1°14'30	opposition	6828 Jan 20 19:20	1°♂12'41 -1°13'03	
max. Earth dist.	6821 Jul 04 12:32	16°☾33'13 30.78802 AU	min. Earth dist.	6828 Jan 20 00:55	1°♂13'58 28.80403 AU	

	6828 Mar 13 00:16	30° $\mathring{R}\mathring{S}$	conjunction	6834 Aug 02 21:04	15° $\mathring{Q}50'35$	-0°57'50	
direct	6828 Apr 07 09:34	29° $\mathring{S}49'04$	minimum elong	6834 Aug 02 21:04	15° $\mathring{Q}50'35$	0°57'53	
	6828 May 02 14:33	0° \mathring{Q}	max. Earth dist.	6834 Aug 03 14:10	15° $\mathring{Q}52'12$	30.81508 AU	
evening set	6828 Jul 03 14:07	1° $\mathring{Q}43'01$	morning rise	6834 Aug 19 00:10	16° $\mathring{Q}26'39$		
			retrograde	6834 Nov 17 20:51	18° $\mathring{Q}24'43$		
conjunction	6828 Jul 19 12:05	2° $\mathring{Q}18'44$	-1°07'40	opposition	6835 Feb 05 06:18	16° $\mathring{Q}59'36$	-1°00'47
minimum elong	6828 Jul 19 12:05	2° $\mathring{Q}18'44$	1°07'43	min. Earth dist.	6835 Feb 04 14:44	17° $\mathring{Q}00'42$	28.81765 AU
max. Earth dist.	6828 Jul 20 08:19	2° $\mathring{Q}20'39$	30.80467 AU	direct	6835 Apr 23 23:17	15° $\mathring{Q}35'37$	
morning rise	6828 Aug 04 12:44	2° $\mathring{Q}54'44$		evening set	6835 Jul 20 09:35	17° $\mathring{Q}29'32$	
retrograde	6828 Nov 03 13:47	4° $\mathring{Q}53'25$					
opposition	6829 Jan 22 07:30	3° $\mathring{Q}28'23$	-1°11'37	conjunction	6835 Aug 05 10:41	18° $\mathring{Q}05'23$	-0°55'52
min. Earth dist.	6829 Jan 21 13:42	3° $\mathring{Q}29'38$	28.80630 AU	minimum elong	6835 Aug 05 10:41	18° $\mathring{Q}05'23$	0°55'55
direct	6829 Apr 09 22:59	2° $\mathring{Q}04'44$		max. Earth dist.	6835 Aug 06 04:29	18° $\mathring{Q}07'03$	30.81962 AU
evening set	6829 Jul 06 03:19	3° $\mathring{Q}58'42$		morning rise	6835 Aug 21 13:59	18° $\mathring{Q}41'28$	
				retrograde	6835 Nov 20 08:32	20° $\mathring{Q}39'25$	
conjunction	6829 Jul 22 01:37	4° $\mathring{Q}34'26$	-1°06'16	opposition	6836 Feb 07 17:43	19° $\mathring{Q}14'21$	-0°58'38
minimum elong	6829 Jul 22 01:37	4° $\mathring{Q}34'26$	1°06'19	min. Earth dist.	6836 Feb 07 01:41	19° $\mathring{Q}15'29$	28.82280 AU
max. Earth dist.	6829 Jul 22 20:15	4° $\mathring{Q}36'12$	30.80656 AU	direct	6836 Apr 25 11:34	17° $\mathring{Q}50'20$	
morning rise	6829 Aug 07 02:47	5° $\mathring{Q}10'27$		evening set	6836 Jul 21 22:51	19° $\mathring{Q}44'16$	
retrograde	6829 Nov 06 04:12	7° $\mathring{Q}09'03$					
opposition	6830 Jan 24 19:29	5° $\mathring{Q}44'00$	-1°10'04	conjunction	6836 Aug 07 00:12	20° $\mathring{Q}20'08$	-0°53'49
min. Earth dist.	6830 Jan 24 01:49	5° $\mathring{Q}45'15$	28.80778 AU	minimum elong	6836 Aug 07 00:12	20° $\mathring{Q}20'08$	0°53'52
direct	6830 Apr 12 10:37	4° $\mathring{Q}20'18$		max. Earth dist.	6836 Aug 07 16:41	20° $\mathring{Q}21'41$	30.82554 AU
evening set	6830 Jul 08 16:22	6° $\mathring{Q}14'16$		morning rise	6836 Aug 23 04:03	20° $\mathring{Q}56'14$	
				retrograde	6836 Nov 21 21:24	22° $\mathring{Q}54'06$	
conjunction	6830 Jul 24 15:12	6° $\mathring{Q}50'01$	-1°04'46	opposition	6837 Feb 09 05:15	21° $\mathring{Q}29'04$	-0°56'24
minimum elong	6830 Jul 24 15:12	6° $\mathring{Q}50'01$	1°04'49	min. Earth dist.	6837 Feb 08 13:49	21° $\mathring{Q}30'10$	28.82938 AU
max. Earth dist.	6830 Jul 25 10:02	6° $\mathring{Q}51'48$	30.80769 AU	direct	6837 Apr 27 21:59	20° $\mathring{Q}05'04$	
morning rise	6830 Aug 09 16:41	7° $\mathring{Q}26'03$		evening set	6837 Jul 24 12:00	21° $\mathring{Q}59'02$	
retrograde	6830 Nov 08 17:14	9° $\mathring{Q}24'32$					
opposition	6831 Jan 27 07:31	7° $\mathring{Q}59'29$	-1°08'24	conjunction	6837 Aug 09 13:54	22° $\mathring{Q}34'55$	-0°51'42
min. Earth dist.	6831 Jan 26 14:54	8° $\mathring{Q}00'39$	28.80870 AU	minimum elong	6837 Aug 09 13:54	22° $\mathring{Q}34'55$	0°51'43
direct	6831 Apr 14 24:00	6° $\mathring{Q}35'43$		max. Earth dist.	6837 Aug 10 07:13	22° $\mathring{Q}36'32$	30.83263 AU
evening set	6831 Jul 11 05:20	8° $\mathring{Q}29'39$		morning rise	6837 Aug 25 17:52	23° $\mathring{Q}11'01$	
				retrograde	6837 Nov 24 09:21	25° $\mathring{Q}08'48$	
conjunction	6831 Jul 27 04:37	9° $\mathring{Q}05'26$	-1°03'10	opposition	6838 Feb 11 16:38	23° $\mathring{Q}43'52$	-0°54'05
minimum elong	6831 Jul 27 04:37	9° $\mathring{Q}05'26$	1°03'13	min. Earth dist.	6838 Feb 11 01:38	23° $\mathring{Q}44'55$	28.83684 AU
max. Earth dist.	6831 Jul 27 22:42	9° $\mathring{Q}07'08$	30.80873 AU	direct	6838 Apr 30 10:04	22° $\mathring{Q}19'51$	
morning rise	6831 Aug 12 06:34	9° $\mathring{Q}41'28$		evening set	6838 Jul 27 01:22	24° $\mathring{Q}13'53$	
retrograde	6831 Nov 11 08:02	11° $\mathring{Q}39'51$					
opposition	6832 Jan 29 19:20	10° $\mathring{Q}14'46$	-1°06'39	conjunction	6838 Aug 12 03:31	24° $\mathring{Q}49'47$	-0°49'29
min. Earth dist.	6832 Jan 29 02:12	10° $\mathring{Q}15'58$	28.80976 AU	minimum elong	6838 Aug 12 03:31	24° $\mathring{Q}49'47$	0°49'32
direct	6832 Apr 16 13:18	8° $\mathring{Q}50'56$		max. Earth dist.	6838 Aug 12 19:23	24° $\mathring{Q}51'16$	30.84057 AU
evening set	6832 Jul 12 18:29	10° $\mathring{Q}44'51$		morning rise	6838 Aug 28 07:57	25° $\mathring{Q}25'54$	
				retrograde	6838 Nov 26 23:43	27° $\mathring{Q}23'37$	
conjunction	6832 Jul 28 18:10	11° $\mathring{Q}20'39$	-1°01'29	opposition	6839 Feb 14 04:02	25° $\mathring{Q}58'45$	-0°51'41
minimum elong	6832 Jul 28 18:10	11° $\mathring{Q}20'39$	1°01'32	min. Earth dist.	6839 Feb 13 13:12	25° $\mathring{Q}59'48$	28.84496 AU
max. Earth dist.	6832 Jul 29 12:01	11° $\mathring{Q}22'20$	30.80993 AU	direct	6839 May 02 20:52	24° $\mathring{Q}34'45$	
morning rise	6832 Aug 13 20:31	11° $\mathring{Q}56'42$		evening set	6839 Jul 29 14:41	26° $\mathring{Q}28'50$	
retrograde	6832 Nov 12 19:27	13° $\mathring{Q}54'58$					
opposition	6833 Jan 31 07:02	12° $\mathring{Q}29'52$	-1°04'47	conjunction	6839 Aug 14 17:19	27° $\mathring{Q}04'46$	-0°47'12
min. Earth dist.	6833 Jan 30 15:15	12° $\mathring{Q}30'59$	28.81132 AU	minimum elong	6839 Aug 14 17:20	27° $\mathring{Q}04'46$	0°47'13
direct	6833 Apr 19 00:41	11° $\mathring{Q}05'59$		max. Earth dist.	6839 Aug 15 09:21	27° $\mathring{Q}06'16$	30.84860 AU
evening set	6833 Jul 15 07:32	12° $\mathring{Q}59'53$		morning rise	6839 Aug 30 21:57	27° $\mathring{Q}40'53$	
				retrograde	6839 Nov 29 12:41	29° $\mathring{Q}38'32$	
conjunction	6833 Jul 31 07:45	13° $\mathring{Q}35'42$	-0°59'42	opposition	6840 Feb 16 15:30	28° $\mathring{Q}13'44$	-0°49'12
minimum elong	6833 Jul 31 07:45	13° $\mathring{Q}35'42$	0°59'45	min. Earth dist.	6840 Feb 16 02:01	28° $\mathring{Q}14'41$	28.85277 AU
max. Earth dist.	6833 Aug 01 01:42	13° $\mathring{Q}37'23$	30.81200 AU	direct	6840 May 04 09:47	26° $\mathring{Q}49'45$	
morning rise	6833 Aug 16 10:24	14° $\mathring{Q}11'45$		evening set	6840 Jul 31 04:18	28° $\mathring{Q}43'53$	
	6833 Sep 08 19:00	15° \mathring{Q}					
retrograde	6833 Nov 15 08:19	16° $\mathring{Q}09'54$		conjunction	6840 Aug 16 07:17	29° $\mathring{Q}19'49$	-0°44'51
	6834 Jan 24 17:50	15° $\mathring{R}\mathring{Q}$		minimum elong	6840 Aug 16 07:17	29° $\mathring{Q}19'49$	0°44'53
opposition	6834 Feb 02 18:36	14° $\mathring{Q}44'48$	-1°02'50	max. Earth dist.	6840 Aug 16 21:51	29° $\mathring{Q}21'11$	30.85617 AU
min. Earth dist.	6834 Feb 02 02:05	14° $\mathring{Q}45'58$	28.81384 AU	morning rise	6840 Sep 01 12:14	29° $\mathring{Q}55'57$	
direct	6834 Apr 21 13:24	13° $\mathring{Q}20'51$			6840 Sep 03 08:52	0° \mathring{R}	
	6834 Jul 11 00:45	15° \mathring{Q}		retrograde	6840 Dec 01 03:20	1° $\mathring{R}53'30$	
evening set	6834 Jul 17 20:35	15° $\mathring{Q}14'45$		opposition	6841 Feb 18 02:43	0° $\mathring{R}28'45$	-0°46'38

min. Earth dist.	6841 Feb 17 13:11	0° \mathring{M} 29'43	28.85987 AU	minimum elong	6847 Sep 02 07:34	15° \mathring{M} 02'23	0°26'46
	6841 Mar 07 10:35	30° \mathring{K} 0		max. Earth dist.	6847 Sep 02 17:15	15° \mathring{M} 03'16	30.89883 AU
direct	6841 May 06 22:51	29° \mathring{O} 04'45		morning rise	6847 Sep 18 14:04	15° \mathring{M} 38'30	
	6841 Jul 04 08:09	0° \mathring{M}		retrograde	6847 Dec 17 15:01	17° \mathring{M} 35'06	
evening set	6841 Aug 02 17:57	0° \mathring{M} 58'56		opposition	6848 Mar 05 07:57	16° \mathring{M} 10'32	-0°27'07
				min. Earth dist.	6848 Mar 04 22:38	16° \mathring{M} 11'11	28.90335 AU
conjunction	6841 Aug 18 21:15	1° \mathring{M} 34'53	-0°42'25	direct	6848 May 22 06:59	14° \mathring{M} 46'11	
minimum elong	6841 Aug 18 21:15	1° \mathring{M} 34'53	0°42'27	evening set	6848 Aug 18 15:50	16° \mathring{M} 40'26	
max. Earth dist.	6841 Aug 19 11:05	1° \mathring{M} 36'11	30.86274 AU				
morning rise	6841 Sep 04 02:26	2° \mathring{M} 11'01		conjunction	6848 Sep 03 21:18	17° \mathring{M} 16'25	-0°24'00
retrograde	6841 Dec 03 15:19	4° \mathring{M} 08'28		minimum elong	6848 Sep 03 21:19	17° \mathring{M} 16'25	0°24'01
opposition	6842 Feb 20 14:10	2° \mathring{M} 43'45	-0°44'01	max. Earth dist.	6848 Sep 04 07:23	17° \mathring{M} 17'21	30.90792 AU
min. Earth dist.	6842 Feb 20 02:24	2° \mathring{M} 44'35	28.86599 AU	morning rise	6848 Sep 20 03:47	17° \mathring{M} 52'32	
direct	6842 May 09 10:24	1° \mathring{M} 19'44		retrograde	6848 Dec 19 02:06	19° \mathring{M} 49'00	
evening set	6842 Aug 05 07:18	3° \mathring{M} 13'54		opposition	6849 Mar 07 18:40	18° \mathring{M} 24'29	-0°24'08
				min. Earth dist.	6849 Mar 07 10:22	18° \mathring{M} 25'04	28.91314 AU
conjunction	6842 Aug 21 11:01	3° \mathring{M} 49'52	-0°39'56	direct	6849 May 24 19:42	17° \mathring{M} 00'08	
minimum elong	6842 Aug 21 11:02	3° \mathring{M} 49'52	0°39'58	evening set	6849 Aug 21 05:15	18° \mathring{M} 54'24	
max. Earth dist.	6842 Aug 22 00:18	3° \mathring{M} 51'07	30.86857 AU				
morning rise	6842 Sep 06 16:26	4° \mathring{M} 26'01		conjunction	6849 Sep 06 10:54	19° \mathring{M} 30'24	-0°21'12
retrograde	6842 Dec 06 04:51	6° \mathring{M} 23'19		minimum elong	6849 Sep 06 10:54	19° \mathring{M} 30'24	0°21'12
opposition	6843 Feb 23 01:21	4° \mathring{M} 58'38	-0°41'20	max. Earth dist.	6849 Sep 06 19:51	19° \mathring{M} 31'13	30.91856 AU
min. Earth dist.	6843 Feb 22 13:21	4° \mathring{M} 59'29	28.87140 AU	morning rise	6849 Sep 22 17:34	20° \mathring{M} 06'30	
direct	6843 May 11 23:32	3° \mathring{M} 34'34		retrograde	6849 Dec 21 15:31	22° \mathring{M} 02'51	
evening set	6843 Aug 07 20:53	5° \mathring{M} 28'45		opposition	6850 Mar 10 05:19	20° \mathring{M} 38'24	-0°21'07
				min. Earth dist.	6850 Mar 09 20:32	20° \mathring{M} 39'01	28.92436 AU
conjunction	6843 Aug 24 00:50	6° \mathring{M} 04'44	-0°37'24	direct	6850 May 27 08:04	19° \mathring{M} 14'03	
minimum elong	6843 Aug 24 00:50	6° \mathring{M} 04'44	0°37'25	evening set	6850 Aug 23 18:33	21° \mathring{M} 08'22	
max. Earth dist.	6843 Aug 24 12:46	6° \mathring{M} 05'51	30.87378 AU				
morning rise	6843 Sep 09 06:35	6° \mathring{M} 40'52		conjunction	6850 Sep 09 00:23	21° \mathring{M} 44'22	-0°18'22
retrograde	6843 Dec 08 17:26	8° \mathring{M} 38'03		minimum elong	6850 Sep 09 00:24	21° \mathring{M} 44'22	0°18'23
opposition	6844 Feb 25 12:28	7° \mathring{M} 13'23	-0°38'35	max. Earth dist.	6850 Sep 09 09:10	21° \mathring{M} 45'10	30.93025 AU
min. Earth dist.	6844 Feb 25 02:00	7° \mathring{M} 14'07	28.87658 AU	morning rise	6850 Sep 25 07:07	22° \mathring{M} 20'27	
direct	6844 May 13 09:48	5° \mathring{M} 49'15		retrograde	6850 Dec 24 03:23	24° \mathring{M} 16'42	
evening set	6844 Aug 09 10:18	7° \mathring{M} 43'26		opposition	6851 Mar 12 16:06	22° \mathring{M} 52'20	-0°18'05
				min. Earth dist.	6851 Mar 12 08:56	22° \mathring{M} 52'51	28.93642 AU
conjunction	6844 Aug 25 14:45	8° \mathring{M} 19'25	-0°34'49	direct	6851 May 29 19:11	21° \mathring{M} 28'01	
minimum elong	6844 Aug 25 14:45	8° \mathring{M} 19'25	0°34'51	evening set	6851 Aug 26 08:05	23° \mathring{M} 22'22	
max. Earth dist.	6844 Aug 26 02:48	8° \mathring{M} 20'32	30.87903 AU				
morning rise	6844 Sep 10 20:35	8° \mathring{M} 55'33		conjunction	6851 Sep 11 14:10	23° \mathring{M} 58'22	-0°15'30
retrograde	6844 Dec 10 04:07	10° \mathring{M} 52'35		minimum elong	6851 Sep 11 14:10	23° \mathring{M} 58'22	0°15'30
opposition	6845 Feb 26 23:25	9° \mathring{M} 27'56	-0°35'48	behind sun begin	6851 Sep 11 12:55	23° \mathring{M} 58'15	
min. Earth dist.	6845 Feb 26 12:52	9° \mathring{M} 28'40	28.88186 AU	behind sun end	6851 Sep 11 15:26	23° \mathring{M} 58'29	
direct	6845 May 15 22:42	8° \mathring{M} 03'44		max. Earth dist.	6851 Sep 11 22:19	23° \mathring{M} 59'07	30.94258 AU
evening set	6845 Aug 11 23:47	9° \mathring{M} 57'56		morning rise	6851 Sep 27 20:58	24° \mathring{M} 34'27	
				retrograde	6851 Dec 26 17:15	26° \mathring{M} 30'35	
conjunction	6845 Aug 28 04:20	10° \mathring{M} 33'54	-0°32'10	opposition	6852 Mar 14 02:36	25° \mathring{M} 06'18	-0°15'00
minimum elong	6845 Aug 28 04:20	10° \mathring{M} 33'54	0°32'11	min. Earth dist.	6852 Mar 13 19:20	25° \mathring{M} 06'49	28.94867 AU
max. Earth dist.	6845 Aug 28 14:47	10° \mathring{M} 34'53	30.88459 AU	direct	6852 May 31 08:27	23° \mathring{M} 41'59	
morning rise	6845 Sep 13 10:29	11° \mathring{M} 10'03		evening set	6852 Aug 27 21:50	25° \mathring{M} 36'24	
retrograde	6845 Dec 12 15:33	13° \mathring{M} 06'56					
opposition	6846 Mar 01 10:20	11° \mathring{M} 42'17	-0°32'57	conjunction	6852 Sep 13 03:59	26° \mathring{M} 12'24	-0°12'38
min. Earth dist.	6846 Mar 01 00:36	11° \mathring{M} 42'59	28.88787 AU	minimum elong	6852 Sep 13 03:59	26° \mathring{M} 12'24	0°12'38
direct	6846 May 18 08:58	10° \mathring{M} 18'02		behind sun begin	6852 Sep 12 23:53	26° \mathring{M} 12'02	
evening set	6846 Aug 14 13:05	12° \mathring{M} 12'14		behind sun end	6852 Sep 13 08:04	26° \mathring{M} 12'46	
				max. Earth dist.	6852 Sep 13 10:40	26° \mathring{M} 13'00	30.95459 AU
conjunction	6846 Aug 30 18:04	12° \mathring{M} 48'14	-0°29'29	morning rise	6852 Sep 29 10:52	26° \mathring{M} 48'28	
minimum elong	6846 Aug 30 18:04	12° \mathring{M} 48'14	0°29'31	retrograde	6852 Dec 28 05:41	28° \mathring{M} 44'29	
max. Earth dist.	6846 Aug 31 05:13	12° \mathring{M} 49'16	30.89107 AU	opposition	6853 Mar 16 13:22	27° \mathring{M} 20'17	-0°11'54
morning rise	6846 Sep 16 00:13	13° \mathring{M} 24'21		min. Earth dist.	6853 Mar 16 07:49	27° \mathring{M} 20'40	28.96043 AU
retrograde	6846 Dec 15 02:20	15° \mathring{M} 21'06		direct	6853 Jun 02 19:25	25° \mathring{M} 55'57	
opposition	6847 Mar 03 21:10	13° \mathring{M} 56'29	-0°30'03	evening set	6853 Aug 30 11:22	27° \mathring{M} 50'24	
min. Earth dist.	6847 Mar 03 11:52	13° \mathring{M} 57'08	28.89489 AU				
direct	6847 May 20 20:22	12° \mathring{M} 32'11		conjunction	6853 Sep 15 17:46	28° \mathring{M} 26'24	-0°09'44
evening set	6847 Aug 17 02:27	14° \mathring{M} 26'23		minimum elong	6853 Sep 15 17:46	28° \mathring{M} 26'24	0°09'43
				behind sun begin	6853 Sep 15 12:24	28° \mathring{M} 25'55	
conjunction	6847 Sep 02 07:34	15° \mathring{M} 02'23	-0°26'46	behind sun end	6853 Sep 15 23:08	28° \mathring{M} 26'53	

max. Earth dist.	6853 Sep 16 00:09	28° 17 26'58	30.96589 AU	opposition	6859 Mar 30 04:14	10° 41 41'28	0°06'48
morning rise	6853 Oct 02 00:32	29° 17 02'28		min. Earth dist.	6859 Mar 30 02:28	10° 41 41'35	29.01707 AU
	6853 Oct 30 18:07	0° 4		direct	6859 Jun 16 17:40	9° 4 16'54	
retrograde	6853 Dec 30 16:49	0° 4 58'20		evening set	6859 Sep 13 20:20	11° 4 11'27	
	6854 Mar 03 12:27	30° 8 17					
opposition	6854 Mar 18 24:00	29° 17 34'12	-0°08'48	conjunction	6859 Sep 30 03:10	11° 4 47'23	0°07'52
min. Earth dist.	6854 Mar 18 18:42	29° 17 34'35	28.97117 AU	minimum elong	6859 Sep 30 03:09	11° 4 47'23	0°07'53
direct	6854 Jun 05 08:22	28° 17 09'52		behind sun begin	6859 Sep 29 21:16	11° 4 46'51	
	6854 Aug 31 01:07	0° 4		behind sun end	6859 Sep 30 09:03	11° 4 47'54	
evening set	6854 Sep 02 01:05	0° 4 04'19		max. Earth dist.	6859 Sep 30 04:05	11° 4 47'27	31.02202 AU
				morning rise	6859 Oct 16 09:44	12° 4 23'19	
conjunction	6854 Sep 18 07:27	0° 4 40'19	-0°06'50	retrograde	6860 Jan 13 11:43	14° 4 18'19	
minimum elong	6854 Sep 18 07:27	0° 4 40'19	0°06'50	opposition	6860 Mar 31 14:30	12° 4 54'25	0°09'54
behind sun begin	6854 Sep 18 01:20	0° 4 39'46		min. Earth dist.	6860 Mar 31 14:17	12° 4 54'26	29.02731 AU
behind sun end	6854 Sep 18 13:34	0° 4 40'51		direct	6860 Jun 18 04:49	11° 4 29'50	
max. Earth dist.	6854 Sep 18 11:44	0° 4 40'41	30.97619 AU	evening set	6860 Sep 15 09:40	13° 4 24'25	
morning rise	6854 Oct 04 14:23	1° 4 16'22					
retrograde	6855 Jan 02 04:42	3° 4 12'05		conjunction	6860 Oct 01 16:31	14° 4 00'20	0°10'45
opposition	6855 Mar 21 10:36	1° 4 48'00	-0°05'40	minimum elong	6860 Oct 01 16:31	14° 4 00'20	0°10'45
min. Earth dist.	6855 Mar 21 06:30	1° 4 48'18	28.98109 AU	behind sun begin	6860 Oct 01 11:31	13° 4 59'53	
direct	6855 Jun 07 18:42	0° 4 23'37		behind sun end	6860 Oct 01 21:30	14° 4 00'46	
evening set	6855 Sep 04 14:34	2° 4 18'06		max. Earth dist.	6860 Oct 01 16:54	14° 4 00'22	31.03287 AU
				morning rise	6860 Oct 17 22:58	14° 4 36'15	
conjunction	6855 Sep 20 21:15	2° 4 54'05	-0°03'55	retrograde	6861 Jan 15 00:45	16° 4 31'06	
minimum elong	6855 Sep 20 21:16	2° 4 54'05	0°03'54	opposition	6861 Apr 03 00:43	15° 4 07'17	0°12'59
behind sun begin	6855 Sep 20 14:45	2° 4 53'30		min. Earth dist.	6861 Apr 02 23:59	15° 4 07'20	29.03871 AU
behind sun end	6855 Sep 21 03:47	2° 4 54'40		direct	6861 Jun 20 18:22	13° 4 42'42	
max. Earth dist.	6855 Sep 21 01:40	2° 4 54'28	30.98568 AU	evening set	6861 Sep 17 22:54	15° 4 37'19	
morning rise	6855 Oct 07 04:02	3° 4 30'07					
retrograde	6856 Jan 04 15:06	5° 4 25'41		conjunction	6861 Oct 04 05:38	16° 4 13'13	0°13'37
opposition	6856 Mar 22 21:10	4° 4 01'39	-0°02'33	minimum elong	6861 Oct 04 05:37	16° 4 13'13	0°13'38
min. Earth dist.	6856 Mar 22 18:02	4° 4 01'52	28.99013 AU	behind sun begin	6861 Oct 04 02:11	16° 4 12'55	
direct	6856 Jun 09 06:23	2° 4 37'13		behind sun end	6861 Oct 04 09:03	16° 4 13'32	
evening set	6856 Sep 06 04:15	4° 4 31'42		max. Earth dist.	6861 Oct 04 05:09	16° 4 13'11	31.04484 AU
				morning rise	6861 Oct 20 11:58	16° 4 49'07	
conjunction	6856 Sep 22 10:51	5° 4 07'41	-0°00'58	retrograde	6862 Jan 17 12:28	18° 4 43'52	
minimum elong	6856 Sep 22 10:51	5° 4 07'41	0°00'58	opposition	6862 Apr 05 11:03	17° 4 20'08	0°16'02
behind sun begin	6856 Sep 22 04:16	5° 4 07'06		min. Earth dist.	6862 Apr 05 11:32	17° 4 20'06	29.05139 AU
behind sun end	6856 Sep 22 17:26	5° 4 08'16		direct	6862 Jun 23 05:27	15° 4 55'34	
max. Earth dist.	6856 Sep 22 13:15	5° 4 07'50	30.99455 AU	evening set	6862 Sep 20 12:04	17° 4 50'14	
morning rise	6856 Oct 08 17:45	5° 4 43'42					
retrograde	6857 Jan 06 02:40	7° 4 39'07		conjunction	6862 Oct 06 18:54	18° 4 26'08	0°16'27
asc. node	6857 Jan 17 02:58	7° 4 37'05		minimum elong	6862 Oct 06 18:54	18° 4 26'08	0°16'28
opposition	6857 Mar 25 07:31	6° 4 15'06	0°00'34	max. Earth dist.	6862 Oct 06 18:33	18° 4 26'06	31.05809 AU
min. Earth dist.	6857 Mar 25 04:47	6° 4 15'18	28.99890 AU	morning rise	6862 Oct 23 01:01	19° 4 02'00	
direct	6857 Jun 11 17:16	4° 4 50'38		retrograde	6863 Jan 19 23:26	20° 4 56'39	
evening set	6857 Sep 08 17:40	6° 4 45'08		opposition	6863 Apr 07 21:09	19° 4 33'01	0°19'04
				min. Earth dist.	6863 Apr 07 21:38	19° 4 32'59	29.06494 AU
conjunction	6857 Sep 25 00:29	7° 4 21'05	0°02'03	direct	6863 Jun 25 17:56	18° 4 08'29	
minimum elong	6857 Sep 25 00:28	7° 4 21'05	0°02'05	evening set	6863 Sep 23 01:29	20° 4 03'12	
behind sun begin	6857 Sep 24 17:52	7° 4 20'30					
behind sun end	6857 Sep 25 07:04	7° 4 21'40		conjunction	6863 Oct 09 08:07	20° 4 39'06	0°19'17
max. Earth dist.	6857 Sep 25 03:01	7° 4 21'16	31.00324 AU	minimum elong	6863 Oct 09 08:06	20° 4 39'06	0°19'19
morning rise	6857 Oct 11 07:09	7° 4 57'04		max. Earth dist.	6863 Oct 09 06:01	20° 4 38'54	31.07191 AU
retrograde	6858 Jan 08 12:33	9° 4 52'21		morning rise	6863 Oct 25 14:11	21° 4 14'57	
opposition	6858 Mar 27 17:58	8° 4 28'22	0°03'41	retrograde	6864 Jan 22 11:47	23° 4 09'29	
min. Earth dist.	6858 Mar 27 16:32	8° 4 28'28	29.00769 AU	opposition	6864 Apr 09 07:25	21° 4 45'58	0°22'05
direct	6858 Jun 14 05:30	7° 4 03'51		min. Earth dist.	6864 Apr 09 08:55	21° 4 45'52	29.07888 AU
evening set	6858 Sep 11 06:57	8° 4 58'22		direct	6864 Jun 27 04:10	20° 4 21'28	
				evening set	6864 Sep 24 14:47	22° 4 16'15	
conjunction	6858 Sep 27 13:43	9° 4 34'19	0°04'59				
minimum elong	6858 Sep 27 13:43	9° 4 34'19	0°04'59	conjunction	6864 Oct 10 21:28	22° 4 52'08	0°22'05
behind sun begin	6858 Sep 27 07:18	9° 4 33'44		minimum elong	6864 Oct 10 21:28	22° 4 52'08	0°22'06
behind sun end	6858 Sep 27 20:07	9° 4 34'53		max. Earth dist.	6864 Oct 10 19:36	22° 4 51'58	31.08561 AU
max. Earth dist.	6858 Sep 27 14:53	9° 4 34'23	31.01233 AU	morning rise	6864 Oct 27 03:08	23° 4 27'58	
morning rise	6858 Oct 13 20:28	10° 4 10'16		retrograde	6865 Jan 23 22:02	25° 4 22'24	
retrograde	6859 Jan 11 00:54	12° 4 05'24		opposition	6865 Apr 11 17:39	23° 4 59'00	0°25'03

min. Earth dist.	6865 Apr 11 20:11	23° <u>♂</u> 58'49	29.09222 AU	conjunction	6871 Oct 27 16:45	8° <u>♂</u> 20'39	0°40'27
direct	6865 Jun 29 15:26	22° <u>♂</u> 34'31		minimum elong	6871 Oct 27 16:45	8° <u>♂</u> 20'39	0°40'30
evening set	6865 Sep 27 04:15	24° <u>♂</u> 29'21		max. Earth dist.	6871 Oct 27 08:17	8° <u>♂</u> 19'52	31.15503 AU
				morning rise	6871 Nov 12 20:36	8° <u>♂</u> 56'14	
conjunction	6865 Oct 13 10:39	25° <u>♂</u> 05'12	0°24'51	retrograde	6872 Feb 09 00:32	10° <u>♂</u> 49'44	
minimum elong	6865 Oct 13 10:38	25° <u>♂</u> 05'12	0°24'53	opposition	6872 Apr 26 16:49	9° <u>♂</u> 26'36	0°44'30
max. Earth dist.	6865 Oct 13 06:40	25° <u>♂</u> 04'50	31.09855 AU	min. Earth dist.	6872 Apr 27 00:33	9° <u>♂</u> 26'03	29.15946 AU
morning rise	6865 Oct 29 16:15	25° <u>♂</u> 41'01		direct	6872 Jul 15 03:11	8° <u>♂</u> 01'50	
retrograde	6866 Jan 26 09:04	27° <u>♂</u> 35'21		evening set	6872 Oct 13 00:07	9° <u>♂</u> 56'45	
opposition	6866 Apr 14 03:56	26° <u>♂</u> 12'01	0°27'59				
min. Earth dist.	6866 Apr 14 06:55	26° <u>♂</u> 11'48	29.10470 AU	conjunction	6872 Oct 29 05:17	10° <u>♂</u> 32'25	0°42'51
direct	6866 Jul 02 02:12	24° <u>♂</u> 47'32		minimum elong	6872 Oct 29 05:16	10° <u>♂</u> 32'25	0°42'53
evening set	6866 Sep 29 17:26	26° <u>♂</u> 42'24		max. Earth dist.	6872 Oct 28 19:20	10° <u>♂</u> 31'30	31.16373 AU
				morning rise	6872 Nov 14 08:53	11° <u>♂</u> 07'58	
conjunction	6866 Oct 15 23:53	27° <u>♂</u> 18'14	0°27'34	retrograde	6873 Feb 10 12:11	13° <u>♂</u> 01'21	
minimum elong	6866 Oct 15 23:52	27° <u>♂</u> 18'14	0°27'35	opposition	6873 Apr 29 02:51	11° <u>♂</u> 38'14	0°47'02
max. Earth dist.	6866 Oct 15 19:50	27° <u>♂</u> 17'52	31.11030 AU	min. Earth dist.	6873 Apr 29 11:07	11° <u>♂</u> 37'39	29.16874 AU
morning rise	6866 Nov 01 05:06	27° <u>♂</u> 54'01		direct	6873 Jul 17 14:24	10° <u>♂</u> 13'27	
retrograde	6867 Jan 28 18:04	29° <u>♂</u> 48'13		evening set	6873 Oct 15 12:48	12° <u>♂</u> 08'22	
opposition	6867 Apr 16 14:18	28° <u>♂</u> 24'57	0°30'52				
min. Earth dist.	6867 Apr 16 18:56	28° <u>♂</u> 24'38	29.11579 AU	conjunction	6873 Oct 31 17:53	12° <u>♂</u> 44'02	0°45'11
direct	6867 Jul 04 13:42	27° <u>♂</u> 00'27		minimum elong	6873 Oct 31 17:53	12° <u>♂</u> 44'02	0°45'15
evening set	6867 Oct 02 06:52	28° <u>♂</u> 55'20		max. Earth dist.	6873 Oct 31 08:38	12° <u>♂</u> 43'11	31.17349 AU
				morning rise	6873 Nov 16 20:59	13° <u>♂</u> 19'33	
conjunction	6867 Oct 18 13:04	29° <u>♂</u> 31'09	0°30'15		6874 Jan 16 08:44	15° <u>♂</u>	
minimum elong	6867 Oct 18 13:03	29° <u>♂</u> 31'09	0°30'17	retrograde	6874 Feb 12 21:32	15° <u>♂</u> 12'48	
max. Earth dist.	6867 Oct 18 07:05	29° <u>♂</u> 30'36	31.12081 AU		6874 Mar 12 16:24	15° <u>♂</u>	
	6867 Oct 31 14:10	0° <u>♂</u>		opposition	6874 May 01 12:55	13° <u>♂</u> 49'45	0°49'30
morning rise	6867 Nov 03 18:10	0° <u>♂</u> 06'54		min. Earth dist.	6874 May 01 21:44	13° <u>♂</u> 49'08	29.17902 AU
retrograde	6868 Jan 31 05:55	2° <u>♂</u> 00'58		direct	6874 Jul 20 02:17	12° <u>♂</u> 24'59	
opposition	6868 Apr 18 00:21	0° <u>♂</u> 37'45	0°33'43	evening set	6874 Oct 18 01:30	14° <u>♂</u> 19'56	
min. Earth dist.	6868 Apr 18 05:01	0° <u>♂</u> 37'25	29.12569 AU				
	6868 May 11 05:49	30° <u>♂</u>		conjunction	6874 Nov 03 06:11	14° <u>♂</u> 55'33	0°47'28
direct	6868 Jul 06 01:04	29° <u>♂</u> 13'11		minimum elong	6874 Nov 03 06:11	14° <u>♂</u> 55'33	0°47'30
	6868 Aug 29 14:21	0° <u>♂</u>		max. Earth dist.	6874 Nov 02 19:28	14° <u>♂</u> 54'34	31.18437 AU
evening set	6868 Oct 03 20:10	1° <u>♂</u> 08'06			6874 Nov 05 06:17	15° <u>♂</u>	
				morning rise	6874 Nov 19 09:08	15° <u>♂</u> 31'03	
conjunction	6868 Oct 20 02:15	1° <u>♂</u> 43'53	0°32'53	retrograde	6875 Feb 15 08:16	17° <u>♂</u> 24'13	
minimum elong	6868 Oct 20 02:15	1° <u>♂</u> 43'53	0°32'54	opposition	6875 May 03 22:54	16° <u>♂</u> 01'15	0°51'53
max. Earth dist.	6868 Oct 19 19:41	1° <u>♂</u> 43'17	31.13009 AU	min. Earth dist.	6875 May 04 07:36	16° <u>♂</u> 00'38	29.19039 AU
morning rise	6868 Nov 05 06:59	2° <u>♂</u> 19'36			6875 Jun 13 18:32	15° <u>♂</u>	
retrograde	6869 Feb 01 15:38	4° <u>♂</u> 13'32		direct	6875 Jul 22 12:54	14° <u>♂</u> 36'29	
opposition	6869 Apr 20 10:40	2° <u>♂</u> 50'20	0°36'30		6875 Aug 29 17:40	15° <u>♂</u>	
min. Earth dist.	6869 Apr 20 17:11	2° <u>♂</u> 49'53	29.13457 AU	evening set	6875 Oct 20 14:12	16° <u>♂</u> 31'29	
direct	6869 Jul 08 12:31	1° <u>♂</u> 25'44					
evening set	6869 Oct 06 09:11	3° <u>♂</u> 20'38		conjunction	6875 Nov 05 18:45	17° <u>♂</u> 07'06	0°49'40
				minimum elong	6875 Nov 05 18:45	17° <u>♂</u> 07'06	0°49'43
conjunction	6869 Oct 22 15:05	3° <u>♂</u> 56'23	0°35'27	max. Earth dist.	6875 Nov 05 08:32	17° <u>♂</u> 06'09	31.19600 AU
minimum elong	6869 Oct 22 15:05	3° <u>♂</u> 56'23	0°35'30	morning rise	6875 Nov 21 21:09	17° <u>♂</u> 42'33	
max. Earth dist.	6869 Oct 22 07:40	3° <u>♂</u> 55'42	31.13867 AU	retrograde	6876 Feb 17 17:01	19° <u>♂</u> 35'38	
morning rise	6869 Nov 07 19:34	4° <u>♂</u> 32'03		opposition	6876 May 05 08:57	18° <u>♂</u> 12'47	0°54'12
retrograde	6870 Feb 04 03:18	6° <u>♂</u> 25'51		min. Earth dist.	6876 May 05 18:58	18° <u>♂</u> 12'05	29.20221 AU
opposition	6870 Apr 22 20:45	5° <u>♂</u> 02'40	0°39'14	direct	6876 Jul 23 23:28	16° <u>♂</u> 48'03	
min. Earth dist.	6870 Apr 23 03:04	5° <u>♂</u> 02'13	29.14285 AU	evening set	6876 Oct 22 03:00	18° <u>♂</u> 43'07	
direct	6870 Jul 11 02:31	3° <u>♂</u> 38'01					
evening set	6870 Oct 08 22:16	5° <u>♂</u> 32'55		conjunction	6876 Nov 07 07:07	19° <u>♂</u> 18'42	0°51'48
				minimum elong	6876 Nov 07 07:07	19° <u>♂</u> 18'42	0°51'51
conjunction	6870 Oct 25 03:56	6° <u>♂</u> 08'39	0°37'59	max. Earth dist.	6876 Nov 06 19:29	19° <u>♂</u> 17'37	31.20791 AU
minimum elong	6870 Oct 25 03:55	6° <u>♂</u> 08'39	0°38'01	morning rise	6876 Nov 23 09:17	19° <u>♂</u> 54'08	
max. Earth dist.	6870 Oct 24 19:27	6° <u>♂</u> 07'52	31.14675 AU	retrograde	6877 Feb 19 04:37	21° <u>♂</u> 47'09	
morning rise	6870 Nov 10 08:09	6° <u>♂</u> 44'16		opposition	6877 May 07 18:59	20° <u>♂</u> 24'23	0°56'26
retrograde	6871 Feb 06 13:59	8° <u>♂</u> 37'55		min. Earth dist.	6877 May 08 04:41	20° <u>♂</u> 23'43	29.21398 AU
opposition	6871 Apr 25 06:47	7° <u>♂</u> 14'45	0°41'53	direct	6877 Jul 26 09:56	18° <u>♂</u> 59'41	
min. Earth dist.	6871 Apr 25 14:33	7° <u>♂</u> 14'12	29.15104 AU	evening set	6877 Oct 24 15:32	20° <u>♂</u> 54'49	
direct	6871 Jul 13 14:02	5° <u>♂</u> 50'02					
evening set	6871 Oct 11 11:11	7° <u>♂</u> 44'57		conjunction	6877 Nov 09 19:25	21° <u>♂</u> 30'22	0°53'51
				minimum elong	6877 Nov 09 19:25	21° <u>♂</u> 30'22	0°53'55

max. Earth dist.	6877 Nov 09 07:29	21° ℳ 29'16	31.21924 AU	retrograde	6884 Mar 06 05:48	7° ♄ 07'02	
morning rise	6877 Nov 25 21:04	22° ℳ 05'47		opposition	6884 May 22 17:53	5° ♄ 44'35	1°09'35
retrograde	6878 Feb 21 14:09	23° ℳ 58'45		min. Earth dist.	6884 May 23 08:19	5° ♄ 43'35	29.26849 AU
opposition	6878 May 10 05:14	22° ℳ 36'04	0°58'35	direct	6884 Aug 10 22:09	4° ♄ 19'46	
min. Earth dist.	6878 May 10 16:41	22° ℳ 35'16	29.22498 AU	evening set	6884 Nov 09 06:25	6° ♄ 15'01	
direct	6878 Jul 28 20:41	21° ℳ 11'24					
evening set	6878 Oct 27 04:14	23° ℳ 06'34		conjunction	6884 Nov 25 07:54	6° ♄ 50'22	1°05'51
				minimum elong	6884 Nov 25 07:54	6° ♄ 50'22	1°05'55
conjunction	6878 Nov 12 07:47	23° ℳ 42'06	0°55'50	max. Earth dist.	6884 Nov 24 15:44	6° ♄ 48'53	31.27093 AU
minimum elong	6878 Nov 12 07:47	23° ℳ 42'06	0°55'52	morning rise	6884 Dec 11 06:35	7° ♄ 25'30	
max. Earth dist.	6878 Nov 11 18:57	23° ℳ 40'55	31.22971 AU	retrograde	6885 Mar 08 13:52	9° ♄ 17'50	
morning rise	6878 Nov 28 09:06	24° ℳ 17'28		opposition	6885 May 25 04:07	7° ♄ 55'24	1°11'04
retrograde	6879 Feb 24 01:34	26° ℳ 10'22		min. Earth dist.	6885 May 25 19:33	7° ♄ 54'19	29.27466 AU
opposition	6879 May 12 15:14	24° ℳ 47'45	1°00'39	direct	6885 Aug 13 09:04	6° ♄ 30'34	
min. Earth dist.	6879 May 13 02:38	24° ℳ 46'58	29.23479 AU	evening set	6885 Nov 11 18:17	8° ♄ 25'48	
direct	6879 Jul 31 09:53	23° ℳ 23'05					
evening set	6879 Oct 29 16:57	25° ℳ 18'18		conjunction	6885 Nov 27 19:16	9° ♄ 01'07	1°07'12
				minimum elong	6885 Nov 27 19:16	9° ♄ 01'07	1°07'16
conjunction	6879 Nov 14 20:08	25° ℳ 53'48	0°57'43	max. Earth dist.	6885 Nov 27 02:13	8° ♄ 59'32	31.27757 AU
minimum elong	6879 Nov 14 20:08	25° ℳ 53'48	0°57'47	morning rise	6885 Dec 13 17:40	9° ♄ 36'13	
max. Earth dist.	6879 Nov 14 06:05	25° ℳ 52'31	31.23879 AU	retrograde	6886 Mar 11 00:31	11° ♄ 28'29	
morning rise	6879 Nov 30 21:03	26° ℳ 29'08		opposition	6886 May 27 14:11	10° ♄ 06'04	1°12'28
retrograde	6880 Feb 26 12:22	28° ℳ 21'58		min. Earth dist.	6886 May 28 04:42	10° ♄ 05'03	29.28180 AU
opposition	6880 May 14 01:30	26° ℳ 59'24	1°02'37	direct	6886 Aug 15 19:36	8° ♄ 41'13	
min. Earth dist.	6880 May 14 14:21	26° ℳ 58'30	29.24334 AU	evening set	6886 Nov 14 06:11	10° ♄ 36'28	
direct	6880 Aug 01 21:00	25° ℳ 34'43					
evening set	6880 Oct 31 05:25	27° ℳ 29'58		conjunction	6886 Nov 30 06:51	11° ♄ 11'45	1°08'27
				minimum elong	6886 Nov 30 06:51	11° ♄ 11'45	1°08'31
conjunction	6880 Nov 16 08:20	28° ℳ 05'27	0°59'31	max. Earth dist.	6886 Nov 29 14:02	11° ♄ 10'12	31.28517 AU
minimum elong	6880 Nov 16 08:20	28° ℳ 05'27	0°59'35	morning rise	6886 Dec 16 04:42	11° ♄ 46'49	
max. Earth dist.	6880 Nov 15 18:09	28° ℳ 04'08	31.24667 AU	retrograde	6887 Mar 13 08:40	13° ♄ 39'01	
morning rise	6880 Dec 02 08:44	28° ℳ 40'44		opposition	6887 May 30 00:18	12° ♄ 16'39	1°13'45
	6881 Jan 13 23:12	0° ♄		min. Earth dist.	6887 May 30 15:58	12° ♄ 15'34	29.28999 AU
retrograde	6881 Feb 27 22:48	0° ♄ 33'28		direct	6887 Aug 18 06:02	10° ♄ 51'49	
	6881 Apr 15 00:42	30° ♄		evening set	6887 Nov 16 18:05	12° ♄ 47'06	
opposition	6881 May 16 11:40	29° ℳ 10'57	1°04'30				
min. Earth dist.	6881 May 17 00:45	29° ℳ 10'02	29.25057 AU	conjunction	6887 Dec 02 18:21	13° ♄ 22'21	1°09'37
direct	6881 Aug 04 10:07	27° ℳ 46'15		minimum elong	6887 Dec 02 18:21	13° ♄ 22'21	1°09'41
evening set	6881 Nov 02 17:55	29° ℳ 41'31		max. Earth dist.	6887 Dec 02 01:22	13° ♄ 20'46	31.29388 AU
	6881 Nov 11 04:53	0° ♄		morning rise	6887 Dec 18 15:49	13° ♄ 57'23	
				retrograde	6888 Mar 14 18:57	15° ♄ 49'32	
conjunction	6881 Nov 18 20:21	0° ♄ 16'57	1°01'14	opposition	6888 May 31 10:26	14° ♄ 27'14	1°14'56
minimum elong	6881 Nov 18 20:21	0° ♄ 16'57	1°01'19	min. Earth dist.	6888 Jun 01 01:29	14° ♄ 26'12	29.29895 AU
max. Earth dist.	6881 Nov 18 04:28	0° ♄ 15'29	31.25342 AU	direct	6888 Aug 19 18:01	13° ♄ 02'26	
morning rise	6881 Dec 04 20:27	0° ♄ 52'12		evening set	6888 Nov 18 05:52	14° ♄ 57'45	
retrograde	6882 Mar 02 10:52	2° ♄ 44'51					
opposition	6882 May 18 21:45	1° ♄ 22'21	1°06'18	conjunction	6888 Dec 04 05:40	15° ♄ 32'58	1°10'40
min. Earth dist.	6882 May 19 11:32	1° ♄ 21'23	29.25702 AU	minimum elong	6888 Dec 04 05:40	15° ♄ 32'58	1°10'44
	6882 Jul 25 18:45	30° ♄		max. Earth dist.	6888 Dec 03 12:09	15° ♄ 31'21	31.30299 AU
direct	6882 Aug 06 22:03	29° ℳ 57'37		morning rise	6888 Dec 20 02:40	16° ♄ 07'58	
	6882 Aug 18 22:13	0° ♄		retrograde	6889 Mar 17 05:31	18° ♄ 00'06	
evening set	6882 Nov 05 06:04	1° ♄ 52'53		opposition	6889 Jun 02 20:44	16° ♄ 37'52	1°16'00
				min. Earth dist.	6889 Jun 03 12:43	16° ♄ 36'46	29.30821 AU
conjunction	6882 Nov 21 08:21	2° ♄ 28'18	1°02'52	direct	6889 Aug 22 03:49	15° ♄ 13'06	
minimum elong	6882 Nov 21 08:21	2° ♄ 28'18	1°02'56	evening set	6889 Nov 20 17:37	17° ♄ 08'27	
max. Earth dist.	6882 Nov 20 16:58	2° ♄ 26'53	31.25947 AU				
morning rise	6882 Dec 07 07:55	3° ♄ 03'30		conjunction	6889 Dec 06 17:06	17° ♄ 43'39	1°11'37
retrograde	6883 Mar 04 19:45	4° ♄ 56'03		minimum elong	6889 Dec 06 17:06	17° ♄ 43'39	1°11'42
opposition	6883 May 21 07:54	3° ♄ 33'34	1°07'59	max. Earth dist.	6889 Dec 05 23:56	17° ♄ 42'03	31.31209 AU
min. Earth dist.	6883 May 21 22:32	3° ♄ 32'33	29.26275 AU	morning rise	6889 Dec 22 13:36	18° ♄ 18'37	
direct	6883 Aug 09 10:52	2° ♄ 08'48		retrograde	6890 Mar 19 15:53	20° ♄ 10'43	
evening set	6883 Nov 07 18:24	4° ♄ 04'04		opposition	6890 Jun 05 06:57	18° ♄ 48'33	1°16'58
				min. Earth dist.	6890 Jun 05 23:02	18° ♄ 47'26	29.31697 AU
conjunction	6883 Nov 23 20:08	4° ♄ 39'26	1°04'24	direct	6890 Aug 24 16:38	17° ♄ 23'50	
minimum elong	6883 Nov 23 20:08	4° ♄ 39'26	1°04'28	evening set	6890 Nov 23 05:28	19° ♄ 19'12	
max. Earth dist.	6883 Nov 23 03:13	4° ♄ 37'52	31.26512 AU	max. Earth dist.	6890 Dec 08 09:45	19° ♄ 52'39	31.32041 AU
morning rise	6883 Dec 09 19:25	5° ♄ 14'37					

conjunction	6890 Dec 09 04:25	19° \mathring{A} 54'22	1°12'28	opposition	6897 Jun 20 08:17	4° \mathring{B} 02'22	1°20'33
minimum elong	6890 Dec 09 04:25	19° \mathring{A} 54'22	1°12'32	min. Earth dist.	6897 Jun 21 02:38	4° \mathring{B} 01'06	29.34694 AU
morning rise	6890 Dec 25 00:36	20° \mathring{A} 29'18		direct	6897 Sep 09 01:34	2° \mathring{B} 37'37	
retrograde	6891 Mar 22 04:07	22° \mathring{A} 21'22		evening set	6897 Dec 08 13:42	4° \mathring{B} 32'59	
opposition	6891 Jun 07 17:20	20° \mathring{A} 59'16	1°17'49				
min. Earth dist.	6891 Jun 08 09:54	20° \mathring{A} 58'08	29.32483 AU	conjunction	6897 Dec 24 09:45	5° \mathring{B} 07'57	1°15'28
direct	6891 Aug 27 04:18	19° \mathring{A} 34'34		minimum elong	6897 Dec 24 09:45	5° \mathring{B} 07'57	1°15'32
evening set	6891 Nov 25 17:12	21° \mathring{A} 29'58		max. Earth dist.	6897 Dec 23 13:16	5° \mathring{B} 06'03	31.34737 AU
				morning rise	6898 Jan 09 02:52	5° \mathring{B} 42'40	
conjunction	6891 Dec 11 15:52	22° \mathring{A} 05'07	1°13'13	retrograde	6898 Apr 05 23:09	7° \mathring{B} 34'30	
minimum elong	6891 Dec 11 15:52	22° \mathring{A} 05'07	1°13'17	opposition	6898 Jun 22 18:47	6° \mathring{B} 12'30	1°20'37
max. Earth dist.	6891 Dec 10 21:44	22° \mathring{A} 03'26	31.32754 AU	min. Earth dist.	6898 Jun 23 13:38	6° \mathring{B} 11'13	29.34949 AU
morning rise	6891 Dec 27 11:25	22° \mathring{A} 40'00		direct	6898 Sep 11 10:54	4° \mathring{B} 47'45	
retrograde	6892 Mar 23 13:12	24° \mathring{A} 32'02		evening set	6898 Dec 11 00:42	6° \mathring{B} 43'08	
opposition	6892 Jun 09 03:48	23° \mathring{A} 09'59	1°18'33				
min. Earth dist.	6892 Jun 09 21:19	23° \mathring{A} 08'47	29.33126 AU	conjunction	6898 Dec 26 20:28	7° \mathring{B} 18'04	1°15'28
direct	6892 Aug 28 16:59	21° \mathring{A} 45'18		minimum elong	6898 Dec 26 20:28	7° \mathring{B} 18'04	1°15'32
evening set	6892 Nov 27 05:00	23° \mathring{A} 40'43		max. Earth dist.	6898 Dec 26 00:52	7° \mathring{B} 16'15	31.35029 AU
max. Earth dist.	6892 Dec 12 07:23	24° \mathring{A} 14'00	31.33334 AU	morning rise	6899 Jan 11 13:06	7° \mathring{B} 52'46	
				retrograde	6899 Apr 08 09:06	9° \mathring{B} 44'35	
conjunction	6892 Dec 13 03:05	24° \mathring{A} 15'49	1°13'51	opposition	6899 Jun 25 05:24	8° \mathring{B} 22'37	1°20'34
minimum elong	6892 Dec 13 03:05	24° \mathring{A} 15'49	1°13'55	min. Earth dist.	6899 Jun 25 23:46	8° \mathring{B} 21'22	29.35272 AU
morning rise	6892 Dec 28 22:22	24° \mathring{A} 50'42		direct	6899 Sep 13 23:43	6° \mathring{B} 57'54	
retrograde	6893 Mar 26 00:09	26° \mathring{A} 42'41		evening set	6899 Dec 13 11:47	8° \mathring{B} 53'18	
opposition	6893 Jun 11 14:16	25° \mathring{A} 20'40	1°19'11	max. Earth dist.	6899 Dec 28 10:32	9° \mathring{B} 26'19	31.35396 AU
min. Earth dist.	6893 Jun 12 07:31	25° \mathring{A} 19'28	29.33643 AU				
direct	6893 Aug 31 04:25	23° \mathring{A} 55'59		conjunction	6899 Dec 29 06:58	9° \mathring{B} 28'12	1°15'22
evening set	6893 Nov 29 16:25	25° \mathring{A} 51'23		minimum elong	6899 Dec 29 06:58	9° \mathring{B} 28'12	1°15'25
				morning rise	6900 Jan 13 23:17	10° \mathring{B} 02'52	
conjunction	6893 Dec 15 14:16	26° \mathring{A} 26'29	1°14'23	retrograde	6900 Apr 10 21:29	11° \mathring{B} 54'43	
minimum elong	6893 Dec 15 14:16	26° \mathring{A} 26'29	1°14'27	opposition	6900 Jun 27 16:02	10° \mathring{B} 32'47	1°20'24
max. Earth dist.	6893 Dec 14 19:05	26° \mathring{A} 24'42	31.33776 AU	min. Earth dist.	6900 Jun 28 10:07	10° \mathring{B} 31'33	29.35681 AU
morning rise	6893 Dec 31 08:58	27° \mathring{A} 01'19		direct	6900 Sep 16 11:07	9° \mathring{B} 08'07	
retrograde	6894 Mar 28 08:45	28° \mathring{A} 53'16		evening set	6900 Dec 15 22:38	11° \mathring{B} 03'32	
opposition	6894 Jun 14 00:51	27° \mathring{A} 31'16	1°19'41				
min. Earth dist.	6894 Jun 14 19:25	27° \mathring{A} 29'59	29.34020 AU	conjunction	6900 Dec 31 17:35	11° \mathring{B} 38'26	1°15'09
direct	6894 Sep 02 15:53	26° \mathring{A} 06'34		minimum elong	6900 Dec 31 17:35	11° \mathring{B} 38'26	1°15'13
evening set	6894 Dec 02 04:01	28° \mathring{A} 01'59		max. Earth dist.	6900 Dec 30 22:24	11° \mathring{B} 36'39	31.35829 AU
max. Earth dist.	6894 Dec 17 05:00	28° \mathring{A} 35'09	31.34101 AU	morning rise	6901 Jan 16 09:21	12° \mathring{B} 13'04	
				retrograde	6901 Apr 13 06:42	14° \mathring{B} 04'56	
conjunction	6894 Dec 18 01:20	28° \mathring{A} 37'02	1°14'49	opposition	6901 Jun 30 02:49	12° \mathring{B} 43'04	1°20'06
minimum elong	6894 Dec 18 01:20	28° \mathring{A} 37'02	1°14'53	min. Earth dist.	6901 Jun 30 21:22	12° \mathring{B} 41'48	29.36119 AU
morning rise	6895 Jan 02 19:44	29° \mathring{A} 11'51		direct	6901 Sep 18 23:06	11° \mathring{B} 18'27	
	6895 Jan 26 12:47	0° \mathring{B}		evening set	6901 Dec 18 09:32	13° \mathring{B} 13'54	
retrograde	6895 Mar 30 19:11	1° \mathring{B} 03'45		max. Earth dist.	6902 Jan 02 07:48	13° \mathring{B} 46'54	31.36269 AU
	6895 Jun 05 07:56	30° \mathring{R} \mathring{A}					
opposition	6895 Jun 16 11:09	29° \mathring{A} 41'45	1°20'06	conjunction	6902 Jan 03 03:55	13° \mathring{B} 48'46	1°14'49
min. Earth dist.	6895 Jun 17 05:05	29° \mathring{A} 40'31	29.34291 AU	minimum elong	6902 Jan 03 03:55	13° \mathring{B} 48'46	1°14'53
direct	6895 Sep 05 03:07	28° \mathring{A} 17'02		morning rise	6902 Jan 18 19:30	14° \mathring{B} 23'24	
	6895 Nov 28 19:53	0° \mathring{B}		retrograde	6902 Apr 15 18:07	16° \mathring{B} 15'17	
evening set	6895 Dec 04 15:26	0° \mathring{B} 12'26		opposition	6902 Jul 02 13:32	14° \mathring{B} 53'28	1°19'42
				min. Earth dist.	6902 Jul 03 07:26	14° \mathring{B} 52'15	29.36537 AU
conjunction	6895 Dec 20 12:24	0° \mathring{B} 47'28	1°15'08	direct	6902 Sep 21 10:35	13° \mathring{B} 28'55	
minimum elong	6895 Dec 20 12:24	0° \mathring{B} 47'28	1°15'12	evening set	6902 Dec 20 20:25	15° \mathring{B} 24'22	
max. Earth dist.	6895 Dec 19 16:08	0° \mathring{B} 45'35	31.34328 AU				
morning rise	6896 Jan 05 06:17	1° \mathring{B} 22'15		conjunction	6903 Jan 05 14:33	15° \mathring{B} 59'14	1°14'23
retrograde	6896 Apr 01 03:24	3° \mathring{B} 14'07		minimum elong	6903 Jan 05 14:33	15° \mathring{B} 59'14	1°14'27
opposition	6896 Jun 17 21:47	1° \mathring{B} 52'07	1°20'23	max. Earth dist.	6903 Jan 04 19:12	15° \mathring{B} 57'26	31.36642 AU
min. Earth dist.	6896 Jun 18 16:57	1° \mathring{B} 50'48	29.34499 AU	morning rise	6903 Jan 21 05:33	16° \mathring{B} 33'50	
direct	6896 Sep 06 13:46	0° \mathring{B} 27'24		retrograde	6903 Apr 18 03:35	18° \mathring{B} 25'45	
evening set	6896 Dec 06 02:33	2° \mathring{B} 22'46		opposition	6903 Jul 05 00:26	17° \mathring{B} 03'59	1°19'11
				min. Earth dist.	6903 Jul 05 19:27	17° \mathring{B} 02'40	29.36863 AU
conjunction	6896 Dec 21 23:05	2° \mathring{B} 57'46	1°15'21	direct	6903 Sep 23 22:29	15° \mathring{B} 39'28	
minimum elong	6896 Dec 21 23:05	2° \mathring{B} 57'46	1°15'25	evening set	6903 Dec 23 07:26	17° \mathring{B} 34'56	
max. Earth dist.	6896 Dec 21 02:54	2° \mathring{B} 55'54	31.34527 AU	max. Earth dist.	6904 Jan 07 04:54	18° \mathring{B} 07'54	31.36917 AU
morning rise	6897 Jan 06 16:35	3° \mathring{B} 32'31					
retrograde	6897 Apr 03 12:57	5° \mathring{B} 24'21		conjunction	6904 Jan 08 01:02	18° \mathring{B} 09'46	1°13'51

minimum elong	6904 Jan 08 01:02	18°30'46"	1°13'55"	min. Earth dist.	6910 Jul 21 01:06	2°00'15"06	29.35609 AU
morning rise	6904 Jan 23 15:47	18°34'21"		direct	6910 Oct 09 06:06	0°00'51"49	
retrograde	6904 Apr 19 14:27	20°33'18"		evening set	6911 Jan 07 09:36	2°00'47"03	
opposition	6904 Jul 06 11:24	19°31'43"	1°18'33"	max. Earth dist.	6911 Jan 22 04:42	3°00'19"52	31.35375 AU
min. Earth dist.	6904 Jul 07 05:32	19°31'18"	29.37067 AU				
direct	6904 Sep 25 10:18	17°35'04"		conjunction	6911 Jan 23 00:33	3°00'21"43	1°07'14"
evening set	6904 Dec 24 18:11	19°34'53"		minimum elong	6911 Jan 23 00:33	3°00'21"43	1°07'17"
				morning rise	6911 Feb 07 12:58	3°00'56"11	
conjunction	6905 Jan 09 11:26	20°32'20"	1°13'12"	retrograde	6911 May 05 11:40	5°00'48"13	
minimum elong	6905 Jan 09 11:26	20°32'20"	1°13'16"	opposition	6911 Jul 22 17:13	4°00'26"15	1°11'08"
max. Earth dist.	6905 Jan 08 15:21	20°31'8"28	31.37041 AU	min. Earth dist.	6911 Jul 23 10:54	4°00'25"02	29.35283 AU
morning rise	6905 Jan 25 01:43	20°35'4"54		direct	6911 Oct 11 17:58	3°00'01"41	
retrograde	6905 Apr 21 22:38	22°34'6"52		evening set	6912 Jan 09 19:47	4°00'56"54	
opposition	6905 Jul 08 22:35	21°32'5"08	1°17'49"				
min. Earth dist.	6905 Jul 09 17:53	21°32'3"48	29.37123 AU	conjunction	6912 Jan 25 10:31	5°00'31"34	1°05'54"
direct	6905 Sep 27 20:46	20°30'0"39		minimum elong	6912 Jan 25 10:31	5°00'31"34	1°05'57"
evening set	6905 Dec 27 05:01	21°35'6"05		max. Earth dist.	6912 Jan 24 16:01	5°00'29"50	31.35090 AU
				morning rise	6912 Feb 09 22:29	6°00'06"00	
conjunction	6906 Jan 11 21:53	22°33'0"53	1°12'28"	retrograde	6912 May 06 21:25	7°00'58"05	
minimum elong	6906 Jan 11 21:54	22°33'0"53	1°12'31"	opposition	6912 Jul 24 04:38	6°00'36"06	1°09'39"
max. Earth dist.	6906 Jan 11 01:49	22°32'9"01	31.37024 AU	min. Earth dist.	6912 Jul 24 22:41	6°00'34"53	29.35042 AU
morning rise	6906 Jan 27 11:51	23°30'5"26		direct	6912 Oct 13 05:55	5°00'11"35	
retrograde	6906 Apr 24 07:54	24°35'7"24		evening set	6913 Jan 11 05:51	7°00'06"48	
opposition	6906 Jul 11 09:29	23°33'5"39	1°16'57"				
min. Earth dist.	6906 Jul 12 04:15	23°33'4"22	29.37018 AU	conjunction	6913 Jan 26 20:10	7°00'41"26	1°04'29"
direct	6906 Sep 30 08:22	22°31'1"10		minimum elong	6913 Jan 26 20:10	7°00'41"26	1°04'32"
evening set	6906 Dec 29 15:51	24°30'6"35		max. Earth dist.	6913 Jan 26 01:45	7°00'39"43	31.34901 AU
max. Earth dist.	6907 Jan 13 11:31	24°33'9"25	31.36844 AU	morning rise	6913 Feb 11 07:59	8°00'15"52	
				retrograde	6913 May 09 08:14	10°00'08"02	
conjunction	6907 Jan 14 08:18	24°34'1"21	1°11'37"	opposition	6913 Jul 26 15:54	8°00'46"04	1°08'05"
minimum elong	6907 Jan 14 08:18	24°34'1"21	1°11'41"	min. Earth dist.	6913 Jul 27 08:25	8°00'44"57	29.34873 AU
morning rise	6907 Jan 29 21:57	25°31'5"53		direct	6913 Oct 15 17:48	7°00'21"36	
retrograde	6907 Apr 26 18:17	27°30'7"52		evening set	6914 Jan 13 15:59	9°00'16"49	
opposition	6907 Jul 13 20:39	25°34'6"05	1°16'00"				
min. Earth dist.	6907 Jul 14 16:03	25°34'4"45	29.36775 AU	conjunction	6914 Jan 29 06:01	9°00'51"27	1°02'57"
direct	6907 Oct 02 17:53	24°32'1"35		minimum elong	6914 Jan 29 06:01	9°00'51"27	1°03'00"
evening set	6908 Jan 01 02:24	26°31'6"57		max. Earth dist.	6914 Jan 28 12:08	9°00'49"47	31.34747 AU
				morning rise	6914 Feb 13 17:31	10°00'25"53	
conjunction	6908 Jan 16 18:35	26°35'1"41	1°10'40"	retrograde	6914 May 11 17:10	12°00'18"08	
minimum elong	6908 Jan 16 18:35	26°35'1"41	1°10'44"	opposition	6914 Jul 29 03:13	10°00'56"11	1°06'24"
max. Earth dist.	6908 Jan 15 22:39	26°34'9"50	31.36539 AU	min. Earth dist.	6914 Jul 29 20:26	10°00'55"01	29.34727 AU
morning rise	6908 Feb 01 07:47	27°32'6"12		direct	6914 Oct 18 03:50	9°00'31"47	
retrograde	6908 Apr 28 03:36	29°31'8"11		evening set	6915 Jan 16 02:10	11°00'27"00	
opposition	6908 Jul 15 07:49	27°35'6"21	1°14'56"				
min. Earth dist.	6908 Jul 16 02:57	27°35'5"02	29.36410 AU	conjunction	6915 Jan 31 15:54	12°00'01"38	1°01'20"
direct	6908 Oct 04 07:07	26°33'1"49		minimum elong	6915 Jan 31 15:54	12°00'01"38	1°01'24"
evening set	6909 Jan 02 12:59	28°32'7"08		max. Earth dist.	6915 Jan 30 22:40	12°00'00"02	31.34598 AU
max. Earth dist.	6909 Jan 17 07:51	28°35'9"55	31.36148 AU	morning rise	6915 Feb 16 03:07	12°00'36"04	
				retrograde	6915 May 14 02:49	14°00'28"24	
conjunction	6909 Jan 18 04:39	29°30'1"51	1°09'37"	opposition	6915 Jul 31 14:43	13°00'06"29	1°04'38"
minimum elong	6909 Jan 18 04:39	29°30'1"51	1°09'41"	min. Earth dist.	6915 Aug 01 06:57	13°00'05"23	29.34542 AU
morning rise	6909 Feb 02 17:41	29°33'6"21		direct	6915 Oct 20 15:07	11°00'42"08	
	6909 Feb 13 20:46	0°00'00"00		evening set	6916 Jan 18 12:20	13°00'37"22	
retrograde	6909 Apr 30 15:22	1°00'28"20		max. Earth dist.	6916 Feb 02 08:06	14°00'10"21	31.34379 AU
opposition	6909 Jul 17 18:54	0°00'06"26	1°13'46"				
min. Earth dist.	6909 Jul 18 13:40	0°00'05"10	29.36009 AU	conjunction	6916 Feb 03 01:38	14°00'11"59	0°59'38"
	6909 Jul 21 17:27	30°31'3"00		minimum elong	6916 Feb 03 01:38	14°00'11"59	0°59'41"
direct	6909 Oct 06 18:00	28°34'1"53		morning rise	6916 Feb 18 12:39	14°00'46"25	
	6909 Dec 18 02:35	0°00'00"00			6916 Feb 24 19:42	15°00'00"00	
evening set	6910 Jan 04 23:11	0°00'37"09		retrograde	6916 May 15 13:52	16°00'38"52	
				opposition	6916 Aug 02 02:24	15°00'16"57	1°02'46"
conjunction	6910 Jan 20 14:40	1°00'11"51	1°08'29"	min. Earth dist.	6916 Aug 02 18:52	15°00'15"50	29.34289 AU
minimum elong	6910 Jan 20 14:41	1°00'11"51	1°08'32"		6916 Aug 12 13:19	15°00'00"00	
max. Earth dist.	6910 Jan 19 19:19	1°00'10"03	31.35741 AU	direct	6916 Oct 22 00:06	13°00'52"40	
morning rise	6910 Feb 05 03:15	1°00'46"19			6916 Dec 27 13:26	15°00'00"00	
retrograde	6910 May 03 00:15	3°00'38"20		evening set	6917 Jan 19 22:26	15°00'47"53	
opposition	6910 Jul 20 06:08	2°00'16"23	1°12'30"				

conjunction	6917 Feb 04 11:33	16°22'29"	0°57'51"	min. Earth dist.	6923 Aug 19 03:14	0°30'07"	29.29507 AU
minimum elong	6917 Feb 04 11:33	16°22'29"	0°57'54"		6923 Sep 07 01:35	30°08'00"	
max. Earth dist.	6917 Feb 03 19:09	16°20'57"	31.34073 AU	direct	6923 Nov 07 11:09	29°06'51"	
morning rise	6917 Feb 19 22:12	16°56'55"			6924 Jan 04 19:18	0°00'00"	
retrograde	6917 May 17 23:45	18°49'28"		evening set	6924 Feb 04 20:06	1°01'46"	
opposition	6917 Aug 04 14:03	17°27'32"	1°00'49"				
min. Earth dist.	6917 Aug 05 06:11	17°26'27"	29.33916 AU	conjunction	6924 Feb 20 07:18	1°36'19"	0°43'13"
direct	6917 Oct 24 12:32	16°03'18"		minimum elong	6924 Feb 20 07:18	1°36'19"	0°43'15"
evening set	6918 Jan 22 08:38	17°58'30"		max. Earth dist.	6924 Feb 19 17:49	1°35'03"	31.29118 AU
				morning rise	6924 Mar 06 16:40	2°10'43"	
conjunction	6918 Feb 06 21:19	18°33'07"	0°55'59"	retrograde	6924 Jun 02 01:50	4°03'46"	
minimum elong	6918 Feb 06 21:19	18°33'07"	0°56'01"	opposition	6924 Aug 20 01:02	2°41'27"	0°44'55"
max. Earth dist.	6918 Feb 06 03:58	18°31'29"	31.33640 AU	min. Earth dist.	6924 Aug 20 13:34	2°40'36"	29.28808 AU
morning rise	6918 Feb 22 07:55	19°07'32"		direct	6924 Nov 08 23:30	1°17'15"	
retrograde	6918 May 20 12:18	21°00'10"		evening set	6925 Feb 06 05:54	3°12'08"	
opposition	6918 Aug 07 01:46	19°38'13"	0°58'46"				
min. Earth dist.	6918 Aug 07 17:30	19°37'09"	29.33415 AU	conjunction	6925 Feb 21 16:46	3°46'41"	0°40'51"
direct	6918 Oct 26 22:45	18°14'00"		minimum elong	6925 Feb 21 16:46	3°46'41"	0°40'54"
evening set	6919 Jan 24 18:43	20°09'12"		max. Earth dist.	6925 Feb 21 03:24	3°45'26"	31.28477 AU
				morning rise	6925 Mar 09 02:05	4°21'05"	
conjunction	6919 Feb 09 07:15	20°43'47"	0°54'02"	retrograde	6925 Jun 04 12:53	6°14'15"	
minimum elong	6919 Feb 09 07:15	20°43'47"	0°54'04"	opposition	6925 Aug 22 12:58	4°51'54"	0°42'22"
max. Earth dist.	6919 Feb 08 15:07	20°42'17"	31.33061 AU	min. Earth dist.	6925 Aug 23 01:10	4°51'04"	29.28222 AU
morning rise	6919 Feb 24 17:27	21°18'12"		direct	6925 Nov 11 08:56	3°27'43"	
retrograde	6919 May 22 21:45	23°10'55"		evening set	6926 Feb 08 15:32	5°22'35"	
opposition	6919 Aug 09 13:37	21°48'56"	0°56'39"				
min. Earth dist.	6919 Aug 10 05:47	21°47'50"	29.32759 AU	conjunction	6926 Feb 24 02:21	5°57'07"	0°38'26"
direct	6919 Oct 29 10:15	20°24'44"		minimum elong	6926 Feb 24 02:21	5°57'07"	0°38'28"
evening set	6920 Jan 27 04:54	22°19'53"		max. Earth dist.	6926 Feb 23 14:41	5°56'02"	31.27929 AU
				morning rise	6926 Mar 11 11:25	6°31'32"	
conjunction	6920 Feb 11 17:00	22°54'28"	0°52'00"	retrograde	6926 Jun 06 22:13	8°24'49"	
minimum elong	6920 Feb 11 17:00	22°54'28"	0°52'03"	opposition	6926 Aug 25 01:01	7°02'27"	0°39'45"
max. Earth dist.	6920 Feb 11 00:14	22°52'54"	31.32354 AU	min. Earth dist.	6926 Aug 25 12:23	7°01'40"	29.27686 AU
morning rise	6920 Feb 27 03:09	23°28'53"		direct	6926 Nov 13 20:52	5°38'20"	
retrograde	6920 May 24 10:03	25°21'40"		evening set	6927 Feb 11 01:19	7°33'10"	
opposition	6920 Aug 11 01:26	23°59'37"	0°54'27"				
min. Earth dist.	6920 Aug 11 16:28	23°58'36"	29.31995 AU	conjunction	6927 Feb 26 11:44	8°07'43"	0°35'57"
direct	6920 Oct 30 22:45	22°35'24"		minimum elong	6927 Feb 26 11:45	8°07'43"	0°35'59"
evening set	6921 Jan 28 14:41	24°30'30"		max. Earth dist.	6927 Feb 25 23:42	8°06'35"	31.27415 AU
max. Earth dist.	6921 Feb 12 11:02	25°03'37"	31.31542 AU	morning rise	6927 Mar 13 20:51	8°42'08"	
				retrograde	6927 Jun 09 10:30	10°35'32"	
conjunction	6921 Feb 13 02:40	25°05'05"	0°49'55"	opposition	6927 Aug 27 13:08	9°13'09"	0°37'04"
minimum elong	6921 Feb 13 02:40	25°05'05"	0°49'57"	min. Earth dist.	6927 Aug 27 23:35	9°12'26"	29.27179 AU
morning rise	6921 Feb 28 12:32	25°39'29"		direct	6927 Nov 16 06:09	7°49'06"	
retrograde	6921 May 26 20:41	27°32'20"		evening set	6928 Feb 13 11:03	9°43'56"	
opposition	6921 Aug 13 13:23	26°10'12"	0°52'10"				
min. Earth dist.	6921 Aug 14 04:59	26°09'09"	29.31150 AU	conjunction	6928 Feb 28 21:25	10°18'28"	0°33'25"
direct	6921 Nov 02 11:32	24°45'59"		minimum elong	6928 Feb 28 21:25	10°18'28"	0°33'26"
evening set	6922 Jan 31 00:36	26°41'01"		max. Earth dist.	6928 Feb 28 11:02	10°17'30"	31.26897 AU
				morning rise	6928 Mar 15 06:15	10°52'54"	
conjunction	6922 Feb 15 12:16	27°15'35"	0°47'45"	retrograde	6928 Jun 10 20:46	12°46'26"	
minimum elong	6922 Feb 15 12:16	27°15'35"	0°47'47"	opposition	6928 Aug 29 01:31	11°24'02"	0°34'19"
max. Earth dist.	6922 Feb 14 20:48	27°14'08"	31.30693 AU	min. Earth dist.	6928 Aug 29 12:03	11°23'19"	29.26637 AU
morning rise	6922 Mar 02 22:03	27°49'59"		direct	6928 Nov 17 17:07	10°00'03"	
retrograde	6922 May 29 07:20	29°42'53"		evening set	6929 Feb 14 20:50	11°54'51"	
opposition	6922 Aug 16 01:02	28°20'41"	0°49'50"				
min. Earth dist.	6922 Aug 16 15:00	28°19'44"	29.30297 AU	conjunction	6929 Mar 02 06:53	12°29'23"	0°30'50"
direct	6922 Nov 05 00:08	26°56'27"		minimum elong	6929 Mar 02 06:53	12°29'23"	0°30'51"
evening set	6923 Feb 02 10:27	28°51'26"		max. Earth dist.	6929 Mar 01 20:14	12°28'23"	31.26332 AU
				morning rise	6929 Mar 17 15:47	13°03'50"	
conjunction	6923 Feb 17 21:51	29°25'59"	0°45'31"	retrograde	6929 Jun 13 09:49	14°57'30"	
minimum elong	6923 Feb 17 21:51	29°25'59"	0°45'33"	opposition	6929 Aug 31 13:48	13°35'05"	0°31'32"
max. Earth dist.	6923 Feb 17 07:02	29°24'36"	31.29858 AU	min. Earth dist.	6929 Aug 31 23:03	13°34'27"	29.26026 AU
morning rise	6923 Mar 05 07:25	0°00'23"		direct	6929 Nov 20 04:50	12°11'09"	
	6923 Mar 05 03:14	0°00'00"		evening set	6930 Feb 17 06:41	14°05'56"	
retrograde	6923 May 31 16:21	1°53'21"					
opposition	6923 Aug 18 13:04	0°31'05"	0°47'25"	conjunction	6930 Mar 04 16:39	14°40'29"	0°28'12"

minimum elong	6930 Mar 04 16:39	14° H 40'29	0°28'12		6936 May 27 08:53	0° Y	
max. Earth dist.	6930 Mar 04 06:58	14° H 39'34	31.25659 AU	retrograde	6936 Jun 28 14:59	0° Y 17'18	
morning rise	6930 Mar 20 01:21	15° H 14'55			6936 Jul 31 19:17	30° R H	
retrograde	6930 Jun 15 21:23	17° H 08'44		opposition	6936 Sep 16 05:49	28° H 54'24	0°10'57
opposition	6930 Sep 03 02:15	15° H 46'16	0°28'41	min. Earth dist.	6936 Sep 16 11:00	28° H 54'03	29.18920 AU
min. Earth dist.	6930 Sep 03 12:08	15° H 45'36	29.25294 AU	direct	6936 Dec 05 14:02	27° H 30'35	
direct	6930 Nov 22 16:45	14° H 22'23		evening set	6937 Mar 04 03:16	29° H 25'04	
evening set	6931 Feb 19 16:40	16° H 17'10					
				conjunction	6937 Mar 19 12:19	29° H 59'37	0°08'52
conjunction	6931 Mar 07 02:25	16° H 51'42	0°25'31	minimum elong	6937 Mar 19 12:19	29° H 59'37	0°08'52
minimum elong	6931 Mar 07 02:25	16° H 51'42	0°25'32	behind sun begin	6937 Mar 19 06:47	29° H 59'07	
max. Earth dist.	6931 Mar 06 16:52	16° H 50'48	31.24870 AU	behind sun end	6937 Mar 19 17:51	0° Y 00'07	
morning rise	6931 Mar 22 11:05	17° H 26'09		max. Earth dist.	6937 Mar 19 07:27	29° H 59'11	31.18414 AU
retrograde	6931 Jun 18 09:14	19° H 20'05			6937 Mar 19 16:37	0° Y	
opposition	6931 Sep 05 14:46	17° H 57'35	0°25'49	morning rise	6937 Apr 03 20:46	0° Y 34'09	
min. Earth dist.	6931 Sep 05 23:09	17° H 57'01	29.24426 AU	retrograde	6937 Jul 01 01:19	2° Y 28'49	
direct	6931 Nov 25 05:20	16° H 33'44		opposition	6937 Sep 18 18:32	1° Y 05'51	0°07'55
evening set	6932 Feb 22 02:31	18° H 28'28		min. Earth dist.	6937 Sep 18 23:23	1° Y 05'32	29.17942 AU
					6937 Nov 04 04:44	30° R H	
conjunction	6932 Mar 08 12:04	19° H 03'00	0°22'49	direct	6937 Dec 08 00:56	29° H 42'05	
minimum elong	6932 Mar 08 12:05	19° H 03'00	0°22'49		6938 Jan 10 02:42	0° Y	
max. Earth dist.	6932 Mar 08 02:44	19° H 02'08	31.23928 AU	evening set	6938 Mar 06 13:06	1° Y 36'33	
morning rise	6932 Mar 23 20:42	19° H 37'29					
retrograde	6932 Jun 19 19:48	21° H 31'32		conjunction	6938 Mar 21 21:54	2° Y 11'06	0°06'02
opposition	6932 Sep 07 03:29	20° H 08'58	0°22'54	minimum elong	6938 Mar 21 21:55	2° Y 11'06	0°06'02
min. Earth dist.	6932 Sep 07 12:23	20° H 08'21	29.23422 AU	behind sun begin	6938 Mar 21 15:49	2° Y 10'33	
direct	6932 Nov 26 16:51	18° H 45'08		behind sun end	6938 Mar 22 04:01	2° Y 11'39	
evening set	6933 Feb 23 12:22	20° H 39'49		max. Earth dist.	6938 Mar 21 17:13	2° Y 10'41	31.17490 AU
				morning rise	6938 Apr 06 06:30	2° Y 45'39	
conjunction	6933 Mar 10 21:53	21° H 14'21	0°20'04	retrograde	6938 Jul 03 14:40	4° Y 40'27	
minimum elong	6933 Mar 10 21:53	21° H 14'21	0°20'05	opposition	6938 Sep 21 07:04	3° Y 17'28	0°04'51
max. Earth dist.	6933 Mar 10 13:35	21° H 13'35	31.22870 AU	min. Earth dist.	6938 Sep 21 10:12	3° Y 17'15	29.17054 AU
morning rise	6933 Mar 26 06:25	21° H 48'50		direct	6938 Dec 10 12:21	1° Y 53'44	
retrograde	6933 Jun 22 06:09	23° H 42'59		evening set	6939 Mar 08 22:51	3° Y 48'11	
opposition	6933 Sep 09 15:54	22° H 20'20	0°19'57				
min. Earth dist.	6933 Sep 09 23:37	22° H 19'49	29.22302 AU	conjunction	6939 Mar 24 07:40	4° Y 22'45	0°03'11
direct	6933 Nov 29 05:55	20° H 56'30		minimum elong	6939 Mar 24 07:40	4° Y 22'45	0°03'11
evening set	6934 Feb 25 22:15	22° H 51'08		behind sun begin	6939 Mar 24 01:17	4° Y 22'11	
				behind sun end	6939 Mar 24 14:02	4° Y 23'20	
conjunction	6934 Mar 13 07:31	23° H 25'41	0°17'18	max. Earth dist.	6939 Mar 24 04:20	4° Y 22'29	31.16627 AU
minimum elong	6934 Mar 13 07:31	23° H 25'41	0°17'18	morning rise	6939 Apr 08 16:11	4° Y 57'20	
max. Earth dist.	6934 Mar 12 23:01	23° H 24'53	31.21717 AU	retrograde	6939 Jul 06 03:01	6° Y 52'17	
morning rise	6934 Mar 28 16:09	24° H 00'11		opposition	6939 Sep 23 20:01	5° Y 29'15	0°01'47
retrograde	6934 Jun 24 17:33	25° H 54'26		min. Earth dist.	6939 Sep 23 23:17	5° Y 29'02	29.16216 AU
opposition	6934 Sep 12 04:32	24° H 31'42	0°16'58	direct	6939 Dec 12 23:27	4° Y 05'36	
min. Earth dist.	6934 Sep 12 12:03	24° H 31'11	29.21138 AU	evening set	6940 Mar 10 08:35	6° Y 00'02	
direct	6934 Dec 01 16:20	23° H 07'52					
evening set	6935 Feb 28 07:52	25° H 02'26		conjunction	6940 Mar 25 17:18	6° Y 34'36	0°00'15
				minimum elong	6940 Mar 25 17:18	6° Y 34'36	0°00'14
conjunction	6935 Mar 15 17:08	25° H 36'58	0°14'31	behind sun begin	6940 Mar 25 10:58	6° Y 34'02	
minimum elong	6935 Mar 15 17:08	25° H 36'58	0°14'30	behind sun end	6940 Mar 25 23:38	6° Y 35'11	
behind sun begin	6935 Mar 15 14:10	25° H 36'42		max. Earth dist.	6940 Mar 25 14:43	6° Y 34'26	31.15809 AU
behind sun end	6935 Mar 15 20:07	25° H 37'14		morning rise	6940 Apr 10 01:54	7° Y 09'12	
max. Earth dist.	6935 Mar 15 10:29	25° H 36'21	31.20549 AU	desc. node	6940 Apr 24 18:41	7° Y 40'35	
morning rise	6935 Mar 31 01:35	26° H 11'29		retrograde	6940 Jul 07 15:30	9° Y 04'19	
retrograde	6935 Jun 27 02:43	28° H 05'51		opposition	6940 Sep 25 08:50	7° Y 41'15	-0°01'17
opposition	6935 Sep 14 17:11	26° H 43'02	0°13'58	min. Earth dist.	6940 Sep 25 10:16	7° Y 41'10	29.15391 AU
min. Earth dist.	6935 Sep 14 23:40	26° H 42'36	29.19982 AU	direct	6940 Dec 14 11:25	6° Y 17'39	
direct	6935 Dec 04 04:47	25° H 19'12		evening set	6941 Mar 12 18:32	8° Y 12'05	
evening set	6936 Mar 01 17:42	27° H 13'43					
				conjunction	6941 Mar 28 03:10	8° Y 46'40	-0°02'43
conjunction	6936 Mar 17 02:41	27° H 48'16	0°11'42	minimum elong	6941 Mar 28 03:09	8° Y 46'40	0°02'43
minimum elong	6936 Mar 17 02:40	27° H 48'16	0°11'42	behind sun begin	6941 Mar 27 20:45	8° Y 46'05	
behind sun begin	6936 Mar 16 22:05	27° H 47'51		behind sun end	6941 Mar 28 09:32	8° Y 47'15	
behind sun end	6936 Mar 17 07:16	27° H 48'41		max. Earth dist.	6941 Mar 28 00:56	8° Y 46'31	31.14967 AU
max. Earth dist.	6936 Mar 16 19:52	27° H 47'38	31.19435 AU	morning rise	6941 Apr 12 11:50	9° Y 21'17	
morning rise	6936 Apr 01 11:16	28° H 22'47		retrograde	6941 Jul 10 03:38	11° Y 16'33	

opposition	6941 Sep 27 21:42	9° Υ 53'27	-0°04'22	retrograde	6947 Jul 24 01:21	24° Υ 31'52
min. Earth dist.	6941 Sep 27 23:33	9° Υ 53'19	29.14535 AU	opposition	6947 Oct 12 04:12	23° Υ 08'16 -0°22'32
direct	6941 Dec 16 23:08	8° Υ 29'54		min. Earth dist.	6947 Oct 12 01:39	23° Υ 08'26 29.07293 AU
evening set	6942 Mar 15 04:30	10° Υ 24'19		direct	6947 Dec 30 22:26	21° Υ 44'42
				evening set	6948 Mar 27 16:55	23° Υ 38'48
conjunction	6942 Mar 30 13:10	10° Υ 58'55	-0°05'35			
minimum elong	6942 Mar 30 13:10	10° Υ 58'55	0°05'36	conjunction	6948 Apr 12 01:30	24° Υ 13'27 -0°22'28
behind sun begin	6942 Mar 30 07:00	10° Υ 58'21		minimum elong	6948 Apr 12 01:30	24° Υ 13'27 0°22'30
behind sun end	6942 Mar 30 19:20	10° Υ 59'28		max. Earth dist.	6948 Apr 12 03:59	24° Υ 13'41 31.06617 AU
max. Earth dist.	6942 Mar 30 12:10	10° Υ 58'51	31.14078 AU	morning rise	6948 Apr 27 10:50	24° Υ 48'12
morning rise	6942 Apr 14 21:49	11° Υ 33'33		retrograde	6948 Jul 25 13:06	26° Υ 44'20
retrograde	6942 Jul 12 15:52	13° Υ 28'57		opposition	6948 Oct 13 17:23	25° Υ 20'36 -0°25'28
opposition	6942 Sep 30 10:40	12° Υ 05'49	-0°07'26	min. Earth dist.	6948 Oct 13 14:53	25° Υ 20'47 29.05980 AU
min. Earth dist.	6942 Sep 30 11:15	12° Υ 05'46	29.13593 AU	direct	6949 Jan 01 09:20	23° Υ 57'02
direct	6942 Dec 19 12:48	10° Υ 42'18		evening set	6949 Mar 30 03:00	25° Υ 51'05
evening set	6943 Mar 17 14:37	12° Υ 36'41				
				conjunction	6949 Apr 14 11:38	26° Υ 25'45 -0°25'12
conjunction	6943 Apr 01 23:03	13° Υ 11'18	-0°08'26	minimum elong	6949 Apr 14 11:38	26° Υ 25'45 0°25'13
minimum elong	6943 Apr 01 23:04	13° Υ 11'18	0°08'27	max. Earth dist.	6949 Apr 14 15:02	26° Υ 26'04 31.05360 AU
behind sun begin	6943 Apr 01 17:25	13° Υ 10'47		morning rise	6949 Apr 29 21:06	27° Υ 00'31
behind sun end	6943 Apr 02 04:42	13° Υ 11'49		retrograde	6949 Jul 28 01:53	28° Υ 56'46
max. Earth dist.	6943 Apr 01 21:43	13° Υ 11'11	31.13082 AU	opposition	6949 Oct 16 06:13	27° Υ 32'58 -0°28'22
morning rise	6943 Apr 17 07:54	13° Υ 45'58		min. Earth dist.	6949 Oct 16 01:40	27° Υ 33'17 29.04776 AU
retrograde	6943 Jul 15 03:51	15° Υ 41'31		direct	6950 Jan 03 21:17	26° Υ 09'24
opposition	6943 Oct 02 23:50	14° Υ 18'19	-0°10'29	evening set	6950 Apr 01 13:09	28° Υ 03'26
min. Earth dist.	6943 Oct 03 00:23	14° Υ 18'16	29.12546 AU			
direct	6943 Dec 21 23:33	12° Υ 54'50		conjunction	6950 Apr 16 21:45	28° Υ 38'07 -0°27'53
evening set	6944 Mar 19 00:40	14° Υ 49'10		minimum elong	6950 Apr 16 21:45	28° Υ 38'07 0°27'55
				max. Earth dist.	6950 Apr 17 01:42	28° Υ 38'29 31.04208 AU
conjunction	6944 Apr 03 09:16	15° Υ 23'47	-0°11'17	morning rise	6950 May 02 07:26	29° Υ 12'55
minimum elong	6944 Apr 03 09:16	15° Υ 23'47	0°11'18		6950 May 24 20:43	0° \mathcal{B}
behind sun begin	6944 Apr 03 04:31	15° Υ 23'21		retrograde	6950 Jul 30 14:49	1° \mathcal{B} 09'18
behind sun end	6944 Apr 03 14:01	15° Υ 24'13			6950 Oct 09 20:48	30° $\mathcal{R}\Upsilon$
max. Earth dist.	6944 Apr 03 09:23	15° Υ 23'48	31.11966 AU	opposition	6950 Oct 18 19:25	29° Υ 45'26 -0°31'14
morning rise	6944 Apr 18 18:01	15° Υ 58'28		min. Earth dist.	6950 Oct 18 14:50	29° Υ 45'45 29.03692 AU
retrograde	6944 Jul 16 13:40	17° Υ 54'08		direct	6951 Jan 06 08:52	28° Υ 21'55
opposition	6944 Oct 04 12:55	16° Υ 30'52	-0°13'32	evening set	6951 Mar 27 16:01	0° \mathcal{B}
min. Earth dist.	6944 Oct 04 12:50	16° Υ 30'52	29.11360 AU		6951 Apr 03 23:06	0° \mathcal{B} 15'55
direct	6944 Dec 23 12:32	15° Υ 07'23		conjunction	6951 Apr 19 07:53	0° \mathcal{B} 50'38 -0°30'33
evening set	6945 Mar 21 10:51	17° Υ 01'40		minimum elong	6951 Apr 19 07:53	0° \mathcal{B} 50'38 0°30'35
				max. Earth dist.	6951 Apr 19 13:35	0° \mathcal{B} 51'10 31.03180 AU
conjunction	6945 Apr 05 19:18	17° Υ 36'18	-0°14'07	morning rise	6951 May 04 17:37	1° \mathcal{B} 25'27
minimum elong	6945 Apr 05 19:18	17° Υ 36'18	0°14'08	retrograde	6951 Aug 02 03:47	3° \mathcal{B} 21'59
behind sun begin	6945 Apr 05 16:03	17° Υ 36'00		opposition	6951 Oct 21 08:32	1° \mathcal{B} 58'05 -0°34'03
behind sun end	6945 Apr 05 22:34	17° Υ 36'36		min. Earth dist.	6951 Oct 21 02:12	1° \mathcal{B} 58'31 29.02707 AU
max. Earth dist.	6945 Apr 05 18:47	17° Υ 36'15	31.10722 AU	direct	6952 Jan 08 22:16	0° \mathcal{B} 34'36
morning rise	6945 Apr 21 04:22	18° Υ 11'00		evening set	6952 Apr 05 09:23	2° \mathcal{B} 28'37
retrograde	6945 Jul 19 02:14	20° Υ 06'47				
opposition	6945 Oct 07 02:01	18° Υ 43'24	-0°16'34	conjunction	6952 Apr 20 18:05	3° \mathcal{B} 03'20 -0°33'09
min. Earth dist.	6945 Oct 07 01:10	18° Υ 43'28	29.10058 AU	minimum elong	6952 Apr 20 18:05	3° \mathcal{B} 03'20 0°33'12
direct	6945 Dec 25 23:03	17° Υ 19'54		max. Earth dist.	6952 Apr 20 23:47	3° \mathcal{B} 03'52 31.02240 AU
evening set	6946 Mar 23 20:53	19° Υ 14'07		morning rise	6952 May 06 04:09	3° \mathcal{B} 38'11
				retrograde	6952 Aug 03 16:31	5° \mathcal{B} 34'53
conjunction	6946 Apr 08 05:29	19° Υ 48'46	-0°16'55	opposition	6952 Oct 22 21:40	4° \mathcal{B} 10'57 -0°36'49
minimum elong	6946 Apr 08 05:29	19° Υ 48'46	0°16'57	min. Earth dist.	6952 Oct 22 15:05	4° \mathcal{B} 11'24 29.01812 AU
max. Earth dist.	6946 Apr 08 06:27	19° Υ 48'51	31.09365 AU	direct	6953 Jan 10 08:38	2° \mathcal{B} 47'31
morning rise	6946 Apr 23 14:29	20° Υ 23'29		evening set	6953 Apr 07 19:33	4° \mathcal{B} 41'32
retrograde	6946 Jul 21 12:31	22° Υ 19'22				
opposition	6946 Oct 09 15:06	20° Υ 55'53	-0°19'34	conjunction	6953 Apr 23 04:31	5° \mathcal{B} 16'16 -0°35'43
min. Earth dist.	6946 Oct 09 14:13	20° Υ 55'56	29.08669 AU	minimum elong	6953 Apr 23 04:31	5° \mathcal{B} 16'16 0°35'46
direct	6946 Dec 28 11:09	19° Υ 32'21		max. Earth dist.	6953 Apr 23 12:03	5° \mathcal{B} 16'59 31.01360 AU
evening set	6947 Mar 26 07:00	21° Υ 26'30		morning rise	6953 May 08 14:38	5° \mathcal{B} 51'10
				retrograde	6953 Aug 06 03:29	7° \mathcal{B} 48'00
conjunction	6947 Apr 10 15:30	22° Υ 01'08	-0°19'42	opposition	6953 Oct 25 10:50	6° \mathcal{B} 24'03 -0°39'32
minimum elong	6947 Apr 10 15:30	22° Υ 01'08	0°19'44	min. Earth dist.	6953 Oct 25 03:22	6° \mathcal{B} 24'34 29.00938 AU
max. Earth dist.	6947 Apr 10 16:38	22° Υ 01'15	31.07978 AU	direct	6954 Jan 12 21:36	5° \mathcal{B} 00'41
morning rise	6947 Apr 26 00:45	22° Υ 35'53				

evening set	6954 Apr 10 06:00	6°♄54'42		max. Earth dist.	6960 May 08 18:57	20°♄52'37	30.93928 AU
				morning rise	6960 May 23 19:24	21°♄26'38	
conjunction	6954 Apr 25 14:53	7°♄29'28 -0°38'14		retrograde	6960 Aug 21 21:37	23°♄24'18	
minimum elong	6954 Apr 25 14:53	7°♄29'28 0°38'18		opposition	6960 Nov 10 07:41	21°♄59'52 -0°56'45	
max. Earth dist.	6954 Apr 25 22:01	7°♄30'08 31.00490 AU		min. Earth dist.	6960 Nov 09 20:07	22°♄00'40 28.93381 AU	
morning rise	6954 May 11 01:19	8°♄04'23		direct	6961 Jan 28 06:53	20°♄36'29	
retrograde	6954 Aug 08 17:10	10°♄01'23		evening set	6961 Apr 25 08:31	22°♄30'19	
opposition	6954 Oct 28 00:03	8°♄37'25 -0°42'12					
min. Earth dist.	6954 Oct 27 15:46	8°♄37'59 29.00064 AU		conjunction	6961 May 10 18:28	23°♄05'12 -0°54'06	
direct	6955 Jan 15 08:03	7°♄14'05		minimum elong	6961 May 10 18:28	23°♄05'12 0°54'09	
evening set	6955 Apr 12 16:28	9°♄08'06		max. Earth dist.	6961 May 11 05:38	23°♄06'15 30.92803 AU	
				morning rise	6961 May 26 06:39	23°♄40'18	
conjunction	6955 Apr 28 01:35	9°♄42'53 -0°40'42		retrograde	6961 Aug 24 10:34	25°♄38'03	
minimum elong	6955 Apr 28 01:35	9°♄42'53 0°40'45		opposition	6961 Nov 12 20:54	24°♄13'32 -0°58'55	
max. Earth dist.	6955 Apr 28 10:11	9°♄43'42 30.99585 AU		min. Earth dist.	6961 Nov 12 09:06	24°♄14'21 28.92325 AU	
morning rise	6955 May 13 12:04	10°♄17'51		direct	6962 Jan 30 17:41	22°♄50'08	
retrograde	6955 Aug 11 04:21	12°♄15'00		evening set	6962 Apr 27 19:07	24°♄43'56	
opposition	6955 Oct 30 13:27	10°♄51'00 -0°44'48					
min. Earth dist.	6955 Oct 30 05:12	10°♄51'34 28.99131 AU		conjunction	6962 May 13 05:25	25°♄18'50 -0°56'04	
direct	6956 Jan 17 20:02	9°♄27'43		minimum elong	6962 May 13 05:25	25°♄18'50 0°56'08	
evening set	6956 Apr 14 03:04	11°♄21'43		max. Earth dist.	6962 May 13 18:30	25°♄20'05 30.91800 AU	
				morning rise	6962 May 28 17:41	25°♄53'58	
conjunction	6956 Apr 29 12:14	11°♄56'31 -0°43'06		retrograde	6962 Aug 26 22:47	27°♄51'48	
minimum elong	6956 Apr 29 12:14	11°♄56'31 0°43'09		opposition	6962 Nov 15 10:02	26°♄27'14 -1°00'58	
max. Earth dist.	6956 Apr 29 20:41	11°♄57'19 30.98616 AU		min. Earth dist.	6962 Nov 14 21:08	26°♄28'07 28.91387 AU	
morning rise	6956 May 14 23:03	12°♄31'30		direct	6963 Feb 02 07:37	25°♄03'50	
retrograde	6956 Aug 12 17:31	14°♄28'48		evening set	6963 Apr 30 05:59	26°♄57'36	
opposition	6956 Nov 01 02:46	13°♄04'44 -0°47'21					
min. Earth dist.	6956 Oct 31 17:19	13°♄05'23 28.98112 AU		conjunction	6963 May 15 16:22	27°♄32'32 -0°57'57	
direct	6957 Jan 19 06:59	11°♄41'28		minimum elong	6963 May 15 16:22	27°♄32'32 0°58'01	
evening set	6957 Apr 16 13:48	13°♄35'27		max. Earth dist.	6963 May 16 05:13	27°♄33'45 30.90937 AU	
				morning rise	6963 May 31 05:06	28°♄07'42	
conjunction	6957 May 01 23:08	14°♄10'17 -0°45'27			6963 Aug 10 23:24	0°♄	
minimum elong	6957 May 01 23:08	14°♄10'17 0°45'29		retrograde	6963 Aug 29 13:11	0°♄05'37	
max. Earth dist.	6957 May 02 08:14	14°♄11'09 30.97530 AU			6963 Sep 17 04:10	30°♄	
morning rise	6957 May 17 10:09	14°♄45'17		opposition	6963 Nov 17 23:13	28°♄41'00 -1°02'57	
	6957 May 24 03:01	15°♄		min. Earth dist.	6963 Nov 17 09:19	28°♄41'57 28.90599 AU	
retrograde	6957 Aug 15 05:23	16°♄42'42		direct	6964 Feb 04 18:58	27°♄17'36	
opposition	6957 Nov 03 16:03	15°♄18'34 -0°49'49		evening set	6964 May 01 16:43	29°♄11'22	
min. Earth dist.	6957 Nov 03 07:14	15°♄19'10 28.96978 AU					
	6957 Nov 15 01:44	15°♄		conjunction	6964 May 17 03:29	29°♄46'19 -0°59'46	
direct	6958 Jan 21 17:18	13°♄55'17		minimum elong	6964 May 17 03:29	29°♄46'19 0°59'50	
	6958 Mar 26 07:12	15°♄		max. Earth dist.	6964 May 17 18:02	29°♄47'42 30.90199 AU	
evening set	6958 Apr 19 00:30	15°♄49'15			6964 May 23 03:23	0°♄	
				morning rise	6964 Jun 01 16:25	0°♄21'31	
conjunction	6958 May 04 10:02	16°♄24'05 -0°47'43		retrograde	6964 Aug 31 00:14	2°♄19'33	
minimum elong	6958 May 04 10:02	16°♄24'05 0°47'46		opposition	6964 Nov 19 12:25	0°♄54'54 -1°04'50	
max. Earth dist.	6958 May 04 19:36	16°♄24'59 30.96360 AU		min. Earth dist.	6964 Nov 18 22:18	0°♄55'52 28.89914 AU	
morning rise	6958 May 19 21:16	16°♄59'07			6964 Dec 25 17:47	30°♄	
retrograde	6958 Aug 17 18:49	18°♄56'37		direct	6965 Feb 06 07:09	29°♄31'32	
opposition	6958 Nov 06 05:17	17°♄32'24 -0°52'12			6965 Mar 19 08:20	0°♄	
min. Earth dist.	6958 Nov 05 18:54	17°♄33'07 28.95769 AU		evening set	6965 May 04 03:45	1°♄25'17	
direct	6959 Jan 24 05:33	16°♄09'05					
evening set	6959 Apr 21 11:06	18°♄03'00		conjunction	6965 May 19 14:41	2°♄00'16 -1°01'28	
				minimum elong	6965 May 19 14:41	2°♄00'16 1°01'32	
conjunction	6959 May 06 20:42	18°♄37'51 -0°49'55		max. Earth dist.	6965 May 20 05:17	2°♄01'39 30.89567 AU	
minimum elong	6959 May 06 20:42	18°♄37'51 0°49'58		morning rise	6965 Jun 04 04:01	2°♄35'30	
max. Earth dist.	6959 May 07 06:28	18°♄38'46 30.95129 AU		retrograde	6965 Sep 02 13:28	4°♄33'38	
morning rise	6959 May 22 08:17	19°♄12'54		min. Earth dist.	6965 Nov 21 10:02	3°♄10'01 28.89319 AU	
retrograde	6959 Aug 20 08:16	21°♄10'30		opposition	6965 Nov 22 01:26	3°♄08'58 -1°06'37	
opposition	6959 Nov 08 18:40	19°♄46'10 -0°54'31		direct	6966 Feb 08 18:06	1°♄45'38	
min. Earth dist.	6959 Nov 08 08:37	19°♄46'51 28.94550 AU		evening set	6966 May 06 14:51	3°♄39'24	
direct	6960 Jan 26 17:34	18°♄22'49					
evening set	6960 Apr 22 21:44	20°♄16'41		conjunction	6966 May 22 02:02	4°♄14'24 -1°03'06	
				minimum elong	6966 May 22 02:02	4°♄14'24 1°03'10	
conjunction	6960 May 08 07:40	20°♄51'33 -0°52'03		max. Earth dist.	6966 May 22 17:34	4°♄15'53 30.88988 AU	
minimum elong	6960 May 08 07:39	20°♄51'33 0°52'06		morning rise	6966 Jun 06 15:39	4°♄49'40	

retrograde	6966 Sep 05 01:48	6°II47'55		minimum elong	6973 Jun 06 12:27	19°II57'17	1°11'43
opposition	6966 Nov 24 14:46	5°II23'14	-1°08'18	max. Earth dist.	6973 Jun 07 06:21	19°II58'59	30.83732 AU
min. Earth dist.	6966 Nov 23 23:52	5°II24'16	28.88760 AU	morning rise	6973 Jun 22 04:33	20°II32'46	
direct	6967 Feb 11 04:26	3°II59'57		retrograde	6973 Sep 21 00:52	22°II31'29	
evening set	6967 May 09 01:56	5°II53'43		opposition	6973 Dec 10 10:51	21°II06'30	-1°17'05
				min. Earth dist.	6973 Dec 09 17:55	21°II07'40	28.83402 AU
conjunction	6967 May 24 13:26	6°II28'45	-1°04'37	direct	6974 Feb 26 18:17	19°II43'07	
minimum elong	6967 May 24 13:26	6°II28'45	1°04'41	evening set	6974 May 24 10:41	21°II36'51	
max. Earth dist.	6967 May 25 05:30	6°II30'17	30.88436 AU				
morning rise	6967 Jun 09 03:22	7°II04'03		conjunction	6974 Jun 09 00:22	22°II12'03	-1°12'28
retrograde	6967 Sep 07 15:40	9°II02'25		minimum elong	6974 Jun 09 00:21	22°II12'03	1°12'32
min. Earth dist.	6967 Nov 26 11:42	7°II38'51	28.88192 AU	max. Earth dist.	6974 Jun 09 18:10	22°II13'45	30.82980 AU
opposition	6967 Nov 27 03:58	7°II37'43	-1°09'53	morning rise	6974 Jun 24 16:57	22°II47'33	
direct	6968 Feb 13 16:23	6°II14'28		retrograde	6974 Sep 23 14:37	24°II46'19	
evening set	6968 May 10 13:25	8°II08'15		opposition	6974 Dec 12 23:47	23°II21'17	-1°17'53
				min. Earth dist.	6974 Dec 12 05:40	23°II22'32	28.82713 AU
conjunction	6968 May 26 01:05	8°II43'19	-1°06'03	direct	6975 Mar 01 06:04	21°II57'53	
minimum elong	6968 May 26 01:05	8°II43'19	1°06'07	evening set	6975 May 26 22:15	23°II51'36	
max. Earth dist.	6968 May 26 16:57	8°II44'49	30.87830 AU				
morning rise	6968 Jun 10 15:27	9°II18'38		conjunction	6975 Jun 11 12:18	24°II26'50	-1°13'10
retrograde	6968 Sep 09 05:19	11°II17'06		minimum elong	6975 Jun 11 12:18	24°II26'50	1°13'13
opposition	6968 Nov 28 17:13	9°II52'24	-1°11'22	max. Earth dist.	6975 Jun 12 07:03	24°II28'37	30.82345 AU
min. Earth dist.	6968 Nov 28 01:47	9°II53'28	28.87559 AU	morning rise	6975 Jun 27 05:16	25°II02'22	
direct	6969 Feb 15 03:19	8°II29'09		retrograde	6975 Sep 26 03:06	27°II01'11	
evening set	6969 May 13 00:53	10°II22'57		opposition	6975 Dec 15 12:46	25°II36'07	-1°18'34
				min. Earth dist.	6975 Dec 14 19:05	25°II37'20	28.82150 AU
conjunction	6969 May 28 13:00	10°II58'03	-1°07'23	direct	6976 Mar 02 16:55	24°II12'42	
minimum elong	6969 May 28 13:00	10°II58'03	1°07'27	evening set	6976 May 28 09:57	26°II06'25	
max. Earth dist.	6969 May 29 05:43	10°II59'38	30.87147 AU				
morning rise	6969 Jun 13 03:35	11°II33'23		conjunction	6976 Jun 13 00:27	26°II41'41	-1°13'44
retrograde	6969 Sep 11 19:09	13°II31'56		minimum elong	6976 Jun 13 00:27	26°II41'41	1°13'49
opposition	6969 Dec 01 06:25	12°II07'12	-1°12'44	max. Earth dist.	6976 Jun 13 19:41	26°II43'31	30.81855 AU
min. Earth dist.	6969 Nov 30 14:01	12°II08'20	28.86815 AU	morning rise	6976 Jun 28 17:49	27°II17'15	
direct	6970 Feb 17 16:12	10°II43'57		retrograde	6976 Sep 27 15:52	29°II16'06	
evening set	6970 May 15 12:27	12°II37'45		min. Earth dist.	6976 Dec 16 06:18	27°II52'21	28.81722 AU
				opposition	6976 Dec 17 01:24	27°II51'01	-1°19'07
conjunction	6970 May 31 00:41	13°II12'52	-1°08'36	direct	6977 Mar 05 04:50	26°II27'37	
minimum elong	6970 May 31 00:41	13°II12'52	1°08'41	evening set	6977 May 30 21:51	28°II21'21	
max. Earth dist.	6970 May 31 16:38	13°II14'23	30.86350 AU				
morning rise	6970 Jun 15 15:47	13°II48'14		conjunction	6977 Jun 15 12:38	28°II56'39	-1°14'12
retrograde	6970 Sep 14 09:13	15°II46'52		minimum elong	6977 Jun 15 12:38	28°II56'39	1°14'16
opposition	6970 Dec 03 19:46	14°II22'04	-1°13'59	max. Earth dist.	6977 Jun 16 07:50	28°II58'28	30.81480 AU
min. Earth dist.	6970 Dec 03 03:50	14°II23'10	28.85980 AU	morning rise	6977 Jul 01 06:29	29°II32'14	
direct	6971 Feb 20 03:17	12°II58'47			6977 Jul 14 03:34	0°☾	
evening set	6971 May 17 23:55	14°II52'34		retrograde	6977 Sep 30 04:26	1°☾31'08	
				opposition	6977 Dec 19 14:22	0°☾06'03	-1°19'34
conjunction	6971 Jun 02 12:40	15°II27'42	-1°09'44	min. Earth dist.	6977 Dec 18 19:52	0°☾07'21	28.81407 AU
minimum elong	6971 Jun 02 12:40	15°II27'42	1°09'48		6977 Dec 23 05:32	30°☾II	
max. Earth dist.	6971 Jun 03 05:56	15°II29'21	30.85479 AU	direct	6978 Mar 07 14:59	28°II42'40	
morning rise	6971 Jun 18 03:59	16°II03'07			6978 May 16 05:55	0°☾	
retrograde	6971 Sep 16 22:46	18°II01'46		evening set	6978 Jun 02 09:33	0°☾36'25	
opposition	6971 Dec 06 08:53	16°II36'54	-1°15'08				
min. Earth dist.	6971 Dec 05 16:24	16°II38'03	28.85087 AU	conjunction	6978 Jun 18 00:51	1°☾11'44	-1°14'34
direct	6972 Feb 22 17:34	15°II13'36		minimum elong	6978 Jun 18 00:51	1°☾11'44	1°14'39
evening set	6972 May 19 11:30	17°II07'21		max. Earth dist.	6978 Jun 18 21:13	1°☾13'40	30.81215 AU
				morning rise	6978 Jul 03 19:00	1°☾47'21	
conjunction	6972 Jun 04 00:28	17°II42'31	-1°10'45	retrograde	6978 Oct 02 17:57	3°☾46'18	
minimum elong	6972 Jun 04 00:28	17°II42'31	1°10'50	min. Earth dist.	6978 Dec 21 07:32	2°☾22'36	28.81171 AU
max. Earth dist.	6972 Jun 04 17:01	17°II44'05	30.84590 AU	opposition	6978 Dec 22 03:11	2°☾21'14	-1°19'53
morning rise	6972 Jun 19 16:21	18°II17'57		direct	6979 Mar 10 02:37	0°☾57'51	
retrograde	6972 Sep 18 13:33	20°II16'39		evening set	6979 Jun 04 21:42	2°☾51'38	
opposition	6972 Dec 07 21:57	18°II51'43	-1°16'10				
min. Earth dist.	6972 Dec 07 05:04	18°II52'53	28.84216 AU	conjunction	6979 Jun 20 13:14	3°☾26'59	-1°14'48
direct	6973 Feb 24 05:35	17°II28'22		minimum elong	6979 Jun 20 13:14	3°☾26'59	1°14'52
evening set	6973 May 21 23:03	19°II22'06		max. Earth dist.	6979 Jun 21 08:55	3°☾28'51	30.81005 AU
				morning rise	6979 Jul 06 07:58	4°☾02'38	
conjunction	6973 Jun 06 12:27	19°II57'17	-1°11'40	retrograde	6979 Oct 05 08:21	6°☾01'37	

opposition	6979 Dec 24 16:03	4°☾36'34 -1°20'04	max. Earth dist.	6986 Jul 07 02:20	19°☾16'23 30.78436 AU
min. Earth dist.	6979 Dec 23 21:05	4°☾37'53 28.80980 AU	morning rise	6986 Jul 22 04:31	19°☾50'22
direct	6980 Mar 11 13:23	3°☾13'11	retrograde	6986 Oct 21 06:21	21°☾49'13
evening set	6980 Jun 06 09:49	5°☾07'00	opposition	6987 Jan 09 08:37	20°☾23'55 -1°18'00
			min. Earth dist.	6987 Jan 08 14:25	20°☾25'12 28.78358 AU
conjunction	6980 Jun 22 01:57	5°☾42'22 -1°14'55	direct	6987 Mar 28 03:55	19°☾00'14
minimum elong	6980 Jun 22 01:57	5°☾42'22 1°15'00	evening set	6987 Jun 23 00:33	20°☾53'59
max. Earth dist.	6980 Jun 22 22:44	5°☾44'21 30.80803 AU			
morning rise	6980 Jul 07 20:56	6°☾18'03	conjunction	6987 Jul 08 19:46	21°☾29'33 -1°12'36
retrograde	6980 Oct 06 22:26	8°☾17'04	minimum elong	6987 Jul 08 19:46	21°☾29'33 1°12'40
min. Earth dist.	6980 Dec 25 09:39	6°☾53'21 28.80752 AU	max. Earth dist.	6987 Jul 09 16:11	21°☾31'28 30.78178 AU
opposition	6980 Dec 26 04:50	6°☾52'01 -1°20'08	morning rise	6987 Jul 24 17:50	22°☾05'23
direct	6981 Mar 14 03:03	5°☾28'38	retrograde	6987 Oct 23 19:20	24°☾04'12
evening set	6981 Jun 08 22:14	7°☾22'28	opposition	6988 Jan 11 20:47	22°☾38'54 -1°17'14
			min. Earth dist.	6988 Jan 11 01:31	22°☾40'15 28.78165 AU
conjunction	6981 Jun 24 14:36	7°☾57'52 -1°14'56	direct	6988 Mar 29 15:37	21°☾15'11
minimum elong	6981 Jun 24 14:36	7°☾57'52 1°14'59	evening set	6988 Jun 24 13:08	23°☾08'57
max. Earth dist.	6981 Jun 25 10:07	7°☾59'43 30.80542 AU			
morning rise	6981 Jul 10 10:09	8°☾33'35	conjunction	6988 Jul 10 08:39	23°☾44'31 -1°11'49
retrograde	6981 Oct 09 13:14	10°☾32'37	minimum elong	6988 Jul 10 08:39	23°☾44'31 1°11'54
opposition	6981 Dec 28 17:38	9°☾07'32 -1°20'05	max. Earth dist.	6988 Jul 11 04:21	23°☾46'23 30.78058 AU
min. Earth dist.	6981 Dec 27 22:38	9°☾08'52 28.80454 AU	morning rise	6988 Jul 26 07:19	24°☾20'24
direct	6982 Mar 16 14:43	7°☾44'08	retrograde	6988 Oct 25 08:26	26°☾19'11
evening set	6982 Jun 11 10:35	9°☾37'58	opposition	6989 Jan 13 09:06	24°☾53'53 -1°16'21
			min. Earth dist.	6989 Jan 12 14:26	24°☾55'12 28.78129 AU
conjunction	6982 Jun 27 03:30	10°☾13'24 -1°14'49	direct	6989 Apr 01 02:13	23°☾30'09
minimum elong	6982 Jun 27 03:30	10°☾13'24 1°14'54	evening set	6989 Jun 27 01:33	25°☾23'56
max. Earth dist.	6982 Jun 27 23:44	10°☾15'19 30.80191 AU			
morning rise	6982 Jul 12 23:21	10°☾49'08	conjunction	6989 Jul 12 21:40	25°☾59'32 -1°10'56
retrograde	6982 Oct 12 02:05	12°☾48'09	minimum elong	6989 Jul 12 21:40	25°☾59'33 1°10'59
min. Earth dist.	6982 Dec 30 11:56	11°☾24'20 28.80054 AU	max. Earth dist.	6989 Jul 13 18:38	26°☾01'31 30.78096 AU
opposition	6982 Dec 31 06:29	11°☾23'03 -1°19'54	morning rise	6989 Jul 28 20:34	26°☾35'26
direct	6983 Mar 19 03:47	9°☾59'36	retrograde	6989 Oct 27 21:26	28°☾34'12
evening set	6983 Jun 13 22:57	11°☾53'25	opposition	6990 Jan 15 21:15	27°☾08'56 -1°15'20
			min. Earth dist.	6990 Jan 15 02:02	27°☾10'16 28.78234 AU
conjunction	6983 Jun 29 16:16	12°☾28'53 -1°14'36	direct	6990 Apr 03 14:57	25°☾45'11
minimum elong	6983 Jun 29 16:16	12°☾28'53 1°14'40	evening set	6990 Jun 29 14:13	27°☾39'01
max. Earth dist.	6983 Jun 30 11:38	12°☾30'43 30.79765 AU			
morning rise	6983 Jul 15 12:41	13°☾04'38	conjunction	6990 Jul 15 10:38	28°☾14'39 -1°09'56
retrograde	6983 Oct 14 17:11	15°☾03'37	minimum elong	6990 Jul 15 10:38	28°☾14'39 1°10'01
opposition	6984 Jan 02 19:10	13°☾38'28 -1°19'37	max. Earth dist.	6990 Jul 16 06:35	28°☾16'32 30.78284 AU
min. Earth dist.	6984 Jan 02 00:11	13°☾39'47 28.79595 AU	morning rise	6990 Jul 31 10:09	28°☾50'34
direct	6984 Mar 20 16:47	12°☾14'57		6990 Sep 04 12:13	0°♂
evening set	6984 Jun 15 11:25	14°☾08'44	retrograde	6990 Oct 30 11:57	0°♂49'20
				6990 Dec 27 08:23	30°♂☾
conjunction	6984 Jul 01 05:12	14°☾44'14 -1°14'16	opposition	6991 Jan 18 09:25	29°☾24'05 -1°14'12
minimum elong	6984 Jul 01 05:12	14°☾44'14 1°14'21	min. Earth dist.	6991 Jan 17 14:15	29°☾25'26 28.78492 AU
max. Earth dist.	6984 Jul 02 00:55	14°☾46'06 30.79282 AU	direct	6991 Apr 06 01:32	28°☾00'21
morning rise	6984 Jul 17 02:02	15°☾20'01	evening set	6991 Jul 02 02:47	29°☾54'14
retrograde	6984 Oct 16 05:22	17°☾18'57		6991 Jul 04 17:22	0°♂
opposition	6985 Jan 04 07:40	15°☾53'44 -1°19'12	conjunction	6991 Jul 17 23:49	0°♂29'54 -1°08'50
min. Earth dist.	6985 Jan 03 13:43	15°☾55'00 28.79113 AU	minimum elong	6991 Jul 17 23:49	0°♂29'54 1°08'53
direct	6985 Mar 23 04:51	14°☾30'10	max. Earth dist.	6991 Jul 18 20:45	0°♂31'52 30.78591 AU
evening set	6985 Jun 17 23:49	16°☾23'56	morning rise	6991 Aug 02 23:38	1°♂05'51
			retrograde	6991 Nov 02 01:18	3°♂04'35
conjunction	6985 Jul 03 18:05	16°☾59'27 -1°13'49	opposition	6992 Jan 20 21:34	1°♂39'24 -1°12'58
minimum elong	6985 Jul 03 18:06	16°☾59'27 1°13'53	min. Earth dist.	6992 Jan 20 02:49	1°♂40'43 28.78831 AU
max. Earth dist.	6985 Jul 04 13:49	17°☾01'19 30.78827 AU	direct	6992 Apr 07 14:04	0°♂15'42
morning rise	6985 Jul 19 15:20	17°☾35'15	evening set	6992 Jul 03 15:45	2°♂09'37
retrograde	6985 Oct 18 18:19	19°☾34'08			
opposition	6986 Jan 06 20:05	18°☾08'53 -1°18'40	conjunction	6992 Jul 19 13:09	2°♂45'18 -1°07'37
min. Earth dist.	6986 Jan 06 01:04	18°☾10'13 28.78686 AU	minimum elong	6992 Jul 19 13:09	2°♂45'18 1°07'41
direct	6986 Mar 25 17:22	16°☾45'15	max. Earth dist.	6992 Jul 20 09:02	2°♂47'11 30.78965 AU
evening set	6986 Jun 20 12:09	18°☾39'00	morning rise	6992 Aug 04 13:28	3°♂21'17
			retrograde	6992 Nov 03 17:14	5°♂19'59
conjunction	6986 Jul 06 06:46	19°☾14'32 -1°13'16	opposition	6993 Jan 22 09:31	3°♂54'51 -1°11'36
minimum elong	6986 Jul 06 06:46	19°☾14'32 1°13'21			

min. Earth dist.	6993 Jan 21 14:35	3°Ω56'11	28.79212 AU	conjunction	6999 Aug 05 11:49	18°Ω33'23	-0°56'22
direct	6993 Apr 10 02:50	2°Ω31'10		minimum elong	6999 Aug 05 11:49	18°Ω33'23	0°56'24
evening set	6993 Jul 06 04:46	4°Ω25'08		max. Earth dist.	6999 Aug 06 04:36	18°Ω34'58	30.80675 AU
				morning rise	6999 Aug 21 14:57	19°Ω09'28	
conjunction	6993 Jul 22 02:38	5°Ω00'52	-1°06'18	retrograde	6999 Nov 20 10:09	21°Ω07'34	
minimum elong	6993 Jul 22 02:38	5°Ω00'52	1°06'20	opposition	7000 Feb 07 20:43	19°Ω42'28	-0°59'13
max. Earth dist.	6993 Jul 22 22:40	5°Ω02'46	30.79328 AU	min. Earth dist.	7000 Feb 07 04:58	19°Ω43'35	28.80901 AU
morning rise	6993 Aug 07 03:17	5°Ω36'52		direct	7000 Apr 26 12:26	18°Ω18'28	
retrograde	6993 Nov 06 05:49	7°Ω35'33		evening set	7000 Jul 23 00:25	20°Ω12'26	
opposition	6994 Jan 24 21:42	6°Ω10'27	-1°10'08				
min. Earth dist.	6994 Jan 24 04:04	6°Ω11'42	28.79555 AU	conjunction	7000 Aug 08 01:28	20°Ω48'17	-0°54'24
direct	6994 Apr 12 14:53	4°Ω46'46		minimum elong	7000 Aug 08 01:28	20°Ω48'17	0°54'27
evening set	6994 Jul 08 17:43	6°Ω40'46		max. Earth dist.	7000 Aug 08 19:02	20°Ω49'56	30.81067 AU
				morning rise	7000 Aug 24 04:45	21°Ω24'22	
conjunction	6994 Jul 24 16:04	7°Ω16'31	-1°04'52	retrograde	7000 Nov 22 21:54	23°Ω22'21	
minimum elong	6994 Jul 24 16:04	7°Ω16'31	1°04'56	opposition	7001 Feb 10 08:10	21°Ω57'16	-0°57'04
max. Earth dist.	6994 Jul 25 11:27	7°Ω18'21	30.79649 AU	min. Earth dist.	7001 Feb 09 16:48	21°Ω58'21	28.81357 AU
morning rise	6994 Aug 09 17:09	7°Ω52'32		direct	7001 Apr 29 01:12	20°Ω33'14	
retrograde	6994 Nov 08 19:55	9°Ω51'09		evening set	7001 Jul 25 13:36	22°Ω27'12	
opposition	6995 Jan 27 09:47	8°Ω26'06	-1°08'34				
min. Earth dist.	6995 Jan 26 15:41	8°Ω27'22	28.79828 AU	conjunction	7001 Aug 10 14:57	23°Ω03'04	-0°52'21
direct	6995 Apr 15 03:36	7°Ω02'23		minimum elong	7001 Aug 10 14:57	23°Ω03'04	0°52'23
evening set	6995 Jul 11 06:57	8°Ω56'23		max. Earth dist.	7001 Aug 11 07:25	23°Ω04'37	30.81610 AU
				morning rise	7001 Aug 26 18:41	23°Ω39'10	
conjunction	6995 Jul 27 05:41	9°Ω32'10	-1°03'21	retrograde	7001 Nov 25 12:31	25°Ω37'03	
minimum elong	6995 Jul 27 05:41	9°Ω32'10	1°03'24	opposition	7002 Feb 12 19:39	24°Ω11'59	-0°54'50
max. Earth dist.	6995 Jul 28 00:13	9°Ω33'55	30.79877 AU	min. Earth dist.	7002 Feb 12 03:51	24°Ω13'06	28.81976 AU
morning rise	6995 Aug 12 07:13	10°Ω08'12		direct	7002 May 01 13:38	22°Ω47'55	
retrograde	6995 Nov 11 08:52	12°Ω06'44		evening set	7002 Jul 28 02:38	24°Ω41'55	
opposition	6996 Jan 29 21:48	10°Ω41'41	-1°06'53				
min. Earth dist.	6996 Jan 29 05:13	10°Ω42'51	28.80024 AU	conjunction	7002 Aug 13 04:27	25°Ω17'48	-0°50'13
direct	6996 Apr 16 14:35	9°Ω17'56		minimum elong	7002 Aug 13 04:27	25°Ω17'48	0°50'16
evening set	6996 Jul 12 20:03	11°Ω11'55		max. Earth dist.	7002 Aug 13 21:25	25°Ω19'24	30.82298 AU
				morning rise	7002 Aug 29 08:27	25°Ω53'55	
conjunction	6996 Jul 28 19:23	11°Ω47'43	-1°01'45	retrograde	7002 Nov 28 00:28	27°Ω51'42	
minimum elong	6996 Jul 28 19:23	11°Ω47'43	1°01'49	opposition	7003 Feb 15 07:12	26°Ω26'42	-0°52'31
max. Earth dist.	6996 Jul 29 13:55	11°Ω49'28	30.80054 AU	min. Earth dist.	7003 Feb 14 16:28	26°Ω27'44	28.82732 AU
morning rise	6996 Aug 13 21:14	12°Ω23'46		direct	7003 May 04 01:23	25°Ω02'38	
retrograde	6996 Nov 12 21:36	14°Ω22'12		evening set	7003 Jul 30 15:54	26°Ω56'39	
opposition	6997 Jan 31 09:37	12°Ω57'08	-1°05'07				
min. Earth dist.	6997 Jan 30 16:34	12°Ω58'20	28.80173 AU	conjunction	7003 Aug 15 18:08	27°Ω32'34	-0°48'01
direct	6997 Apr 19 02:54	11°Ω33'19		minimum elong	7003 Aug 15 18:08	27°Ω32'34	0°48'03
evening set	6997 Jul 15 09:10	13°Ω27'18		max. Earth dist.	7003 Aug 16 10:32	27°Ω34'06	30.83132 AU
				morning rise	7003 Aug 31 22:30	28°Ω08'40	
conjunction	6997 Jul 31 08:46	14°Ω03'07	-1°00'02		7003 Nov 10 24:00	0°♊	
minimum elong	6997 Jul 31 08:46	14°Ω03'07	1°00'05	retrograde	7003 Nov 30 15:07	0°♊06'22	
max. Earth dist.	6997 Aug 01 02:06	14°Ω04'45	30.80202 AU		7003 Dec 20 07:07	30°♋Ω	
morning rise	6997 Aug 16 11:07	14°Ω39'11		opposition	7004 Feb 17 18:26	28°Ω41'26	-0°50'07
	6997 Aug 26 03:00	15°Ω		min. Earth dist.	7004 Feb 17 03:10	28°Ω42'31	28.83610 AU
retrograde	6997 Nov 15 09:02	16°Ω37'31		direct	7004 May 05 13:59	27°Ω17'23	
opposition	6998 Feb 02 21:29	15°Ω12'25	-1°03'15	evening set	7004 Aug 01 05:20	29°Ω11'28	
min. Earth dist.	6998 Feb 02 05:32	15°Ω13'33	28.80339 AU				
	6998 Feb 10 06:32	15°♌Ω		conjunction	7004 Aug 17 07:53	29°Ω47'23	-0°45'44
direct	6998 Apr 21 13:52	13°Ω48'33		minimum elong	7004 Aug 17 07:53	29°Ω47'23	0°45'47
	6998 Jun 27 12:14	15°Ω		max. Earth dist.	7004 Aug 17 23:41	29°Ω48'52	30.84043 AU
evening set	6998 Jul 17 22:10	15°Ω42'31			7004 Aug 22 22:35	0°♎	
				morning rise	7004 Sep 02 12:33	0°♎23'31	
conjunction	6998 Aug 02 22:23	16°Ω18'20	-0°58'15	retrograde	7004 Dec 02 04:22	2°♏21'08	
minimum elong	6998 Aug 02 22:23	16°Ω18'20	0°58'18	opposition	7005 Feb 19 05:55	0°♏56'17	-0°47'38
max. Earth dist.	6998 Aug 03 16:32	16°Ω20'03	30.80396 AU	min. Earth dist.	7005 Feb 18 16:10	0°♏57'15	28.84545 AU
morning rise	6998 Aug 19 00:57	16°Ω54'25			7005 Mar 27 14:51	30°♏Ω	
retrograde	6998 Nov 17 20:35	18°Ω52'37		direct	7005 May 08 01:04	29°Ω32'15	
opposition	6999 Feb 05 09:06	17°Ω27'32	-1°01'17		7005 Jun 17 15:42	0°♐	
min. Earth dist.	6999 Feb 04 17:00	17°Ω28'40	28.80563 AU	evening set	7005 Aug 03 18:37	1°♐26'22	
direct	6999 Apr 24 02:03	16°Ω03'35					
evening set	6999 Jul 20 11:19	17°Ω57'33		conjunction	7005 Aug 19 21:37	2°♐02'19	-0°43'23
				minimum elong	7005 Aug 19 21:37	2°♐02'19	0°43'24

max. Earth dist.	7005 Aug 20 13:15	2° \mathring{M} 03'47	30.84987 AU	conjunction	7012 Sep 04 22:44	17° \mathring{M} 45'57	-0°25'20
morning rise	7005 Sep 05 02:27	2° \mathring{M} 38'27		minimum elong	7012 Sep 04 22:44	17° \mathring{M} 45'57	0°25'21
retrograde	7005 Dec 04 17:23	4° \mathring{M} 36'00		max. Earth dist.	7012 Sep 05 08:31	17° \mathring{M} 46'51	30.89970 AU
opposition	7006 Feb 21 17:13	3° \mathring{M} 11'13	-0°45'04	morning rise	7012 Sep 21 05:06	18° \mathring{M} 22'04	
min. Earth dist.	7006 Feb 21 03:11	3° \mathring{M} 12'13	28.85467 AU	retrograde	7012 Dec 20 07:37	20° \mathring{M} 18'44	
direct	7006 May 10 13:31	1° \mathring{M} 47'13		opposition	7013 Mar 08 22:54	18° \mathring{M} 54'12	-0°25'36
evening set	7006 Aug 06 08:17	3° \mathring{M} 41'23		min. Earth dist.	7013 Mar 08 13:39	18° \mathring{M} 54'51	28.90359 AU
				direct	7013 May 26 00:20	17° \mathring{M} 29'54	
				evening set	7013 Aug 22 06:56	19° \mathring{M} 24'11	
conjunction	7006 Aug 22 11:28	4° \mathring{M} 17'20	-0°40'57				
minimum elong	7006 Aug 22 11:28	4° \mathring{M} 17'20	0°41'00				
max. Earth dist.	7006 Aug 23 01:30	4° \mathring{M} 18'38	30.85879 AU	conjunction	7013 Sep 07 12:15	20° \mathring{M} 00'11	-0°22'35
morning rise	7006 Sep 07 16:41	4° \mathring{M} 53'29		minimum elong	7013 Sep 07 12:15	20° \mathring{M} 00'11	0°22'36
retrograde	7006 Dec 07 05:27	6° \mathring{M} 50'56		max. Earth dist.	7013 Sep 07 21:37	20° \mathring{M} 01'03	30.90756 AU
opposition	7007 Feb 24 04:37	5° \mathring{M} 26'13	-0°42'27	morning rise	7013 Sep 23 18:44	20° \mathring{M} 36'18	
min. Earth dist.	7007 Feb 23 16:09	5° \mathring{M} 27'06	28.86325 AU	retrograde	7013 Dec 22 20:02	22° \mathring{M} 32'50	
direct	7007 May 12 23:59	4° \mathring{M} 02'12		opposition	7014 Mar 11 09:50	21° \mathring{M} 08'19	-0°22'38
evening set	7007 Aug 08 21:49	5° \mathring{M} 56'24		min. Earth dist.	7014 Mar 11 01:54	21° \mathring{M} 08'53	28.91213 AU
				direct	7014 May 28 12:17	19° \mathring{M} 44'01	
				evening set	7014 Aug 24 20:19	21° \mathring{M} 38'19	
conjunction	7007 Aug 25 01:33	6° \mathring{M} 32'23	-0°38'29				
minimum elong	7007 Aug 25 01:33	6° \mathring{M} 32'23	0°38'30				
max. Earth dist.	7007 Aug 25 15:39	6° \mathring{M} 33'42	30.86688 AU	conjunction	7014 Sep 10 01:58	22° \mathring{M} 14'19	-0°19'48
morning rise	7007 Sep 10 06:52	7° \mathring{M} 08'31		minimum elong	7014 Sep 10 01:58	22° \mathring{M} 14'19	0°19'50
retrograde	7007 Dec 09 17:16	9° \mathring{M} 05'52		max. Earth dist.	7014 Sep 10 11:10	22° \mathring{M} 15'10	30.91683 AU
opposition	7008 Feb 26 15:53	7° \mathring{M} 41'13	-0°39'46	morning rise	7014 Sep 26 08:31	22° \mathring{M} 50'25	
min. Earth dist.	7008 Feb 26 03:49	7° \mathring{M} 42'04	28.87070 AU	retrograde	7014 Dec 25 08:21	24° \mathring{M} 46'49	
direct	7008 May 14 12:00	6° \mathring{M} 17'10		opposition	7015 Mar 13 20:26	23° \mathring{M} 22'22	-0°19'39
evening set	7008 Aug 10 11:32	8° \mathring{M} 11'24		min. Earth dist.	7015 Mar 13 11:59	23° \mathring{M} 22'58	28.92198 AU
				direct	7015 May 31 01:14	21° \mathring{M} 58'02	
				evening set	7015 Aug 27 09:52	23° \mathring{M} 52'22	
conjunction	7008 Aug 26 15:24	8° \mathring{M} 47'22	-0°35'56				
minimum elong	7008 Aug 26 15:24	8° \mathring{M} 47'22	0°35'58				
max. Earth dist.	7008 Aug 27 03:28	8° \mathring{M} 48'30	30.87391 AU	conjunction	7015 Sep 12 15:37	24° \mathring{M} 28'22	-0°17'00
morning rise	7008 Sep 11 21:06	9° \mathring{M} 23'31		minimum elong	7015 Sep 12 15:37	24° \mathring{M} 28'22	0°17'00
retrograde	7008 Dec 11 06:04	11° \mathring{M} 20'44		max. Earth dist.	7015 Sep 12 23:35	24° \mathring{M} 29'06	30.92732 AU
opposition	7009 Feb 28 03:04	9° \mathring{M} 56'07	-0°37'02	morning rise	7015 Sep 28 22:22	25° \mathring{M} 04'29	
min. Earth dist.	7009 Feb 27 15:55	9° \mathring{M} 56'55	28.87736 AU	retrograde	7015 Dec 27 20:24	27° \mathring{M} 00'44	
direct	7009 May 16 22:11	8° \mathring{M} 32'02		opposition	7016 Mar 15 07:14	25° \mathring{M} 36'22	-0°16'37
evening set	7009 Aug 13 01:03	10° \mathring{M} 26'16		min. Earth dist.	7016 Mar 14 24:00	25° \mathring{M} 36'53	28.93308 AU
				direct	7016 Jun 01 11:37	24° \mathring{M} 12'03	
				evening set	7016 Aug 28 23:16	26° \mathring{M} 06'25	
conjunction	7009 Aug 29 05:23	11° \mathring{M} 02'15	-0°33'21				
minimum elong	7009 Aug 29 05:23	11° \mathring{M} 02'15	0°33'22				
max. Earth dist.	7009 Aug 29 17:41	11° \mathring{M} 03'24	30.88027 AU	conjunction	7016 Sep 14 05:20	26° \mathring{M} 42'25	-0°14'10
morning rise	7009 Sep 14 11:07	11° \mathring{M} 38'24		minimum elong	7016 Sep 14 05:20	26° \mathring{M} 42'25	0°14'10
retrograde	7009 Dec 13 16:57	13° \mathring{M} 35'29		behind sun begin	7016 Sep 14 02:19	26° \mathring{M} 42'09	
opposition	7010 Mar 02 14:12	12° \mathring{M} 10'53	-0°34'14	behind sun end	7016 Sep 14 08:20	26° \mathring{M} 42'41	
min. Earth dist.	7010 Mar 02 03:56	12° \mathring{M} 11'37	28.88348 AU	max. Earth dist.	7016 Sep 14 13:43	26° \mathring{M} 43'11	30.93890 AU
direct	7010 May 19 10:57	10° \mathring{M} 46'46		morning rise	7016 Sep 30 11:59	27° \mathring{M} 18'31	
evening set	7010 Aug 15 14:32	12° \mathring{M} 41'00		retrograde	7016 Dec 29 08:19	29° \mathring{M} 14'39	
				opposition	7017 Mar 17 17:51	27° \mathring{M} 50'23	-0°13'35
				min. Earth dist.	7017 Mar 17 10:50	27° \mathring{M} 50'52	28.94489 AU
conjunction	7010 Aug 31 19:04	13° \mathring{M} 16'59	-0°30'43	direct	7017 Jun 03 23:27	26° \mathring{M} 26'04	
minimum elong	7010 Aug 31 19:04	13° \mathring{M} 16'59	0°30'45	evening set	7017 Aug 31 12:54	28° \mathring{M} 20'29	
max. Earth dist.	7010 Sep 01 05:41	13° \mathring{M} 17'58	30.88645 AU				
morning rise	7010 Sep 17 01:10	13° \mathring{M} 53'07					
retrograde	7010 Dec 16 06:28	15° \mathring{M} 50'05		conjunction	7017 Sep 16 18:57	28° \mathring{M} 56'29	-0°11'19
opposition	7011 Mar 05 01:12	14° \mathring{M} 25'30	-0°31'24	minimum elong	7017 Sep 16 18:57	28° \mathring{M} 56'29	0°11'18
min. Earth dist.	7011 Mar 04 15:01	14° \mathring{M} 26'13	28.88967 AU	behind sun begin	7017 Sep 16 14:11	28° \mathring{M} 56'04	
direct	7011 May 21 23:23	13° \mathring{M} 01'18		behind sun end	7017 Sep 16 23:43	28° \mathring{M} 56'55	
evening set	7011 Aug 18 04:05	14° \mathring{M} 55'34		max. Earth dist.	7017 Sep 17 01:32	28° \mathring{M} 57'05	30.95097 AU
				morning rise	7017 Oct 03 01:49	29° \mathring{M} 32'34	
					7017 Oct 16 01:17	0° \mathring{A}	
conjunction	7011 Sep 03 08:59	15° \mathring{M} 31'33	-0°28'03	retrograde	7017 Dec 31 20:12	1° \mathring{A} 28'37	
minimum elong	7011 Sep 03 08:59	15° \mathring{M} 31'33	0°28'04	opposition	7018 Mar 20 04:32	0° \mathring{A} 04'25	-0°10'31
max. Earth dist.	7011 Sep 03 19:41	15° \mathring{M} 32'33	30.89271 AU	min. Earth dist.	7018 Mar 19 22:22	0° \mathring{A} 04'51	28.95704 AU
morning rise	7011 Sep 19 15:08	16° \mathring{M} 07'41			7018 Mar 22 19:04	30° \mathring{R} \mathring{M}	
retrograde	7011 Dec 18 17:32	18° \mathring{M} 04'29			7018 Jun 06 09:26	28° \mathring{M} 40'06	
opposition	7012 Mar 06 12:06	16° \mathring{M} 39'56	-0°28'31	direct	7018 Aug 17 12:47	0° \mathring{A}	
min. Earth dist.	7012 Mar 06 03:20	16° \mathring{M} 40'33	28.89619 AU		7018 Sep 03 02:24	0° \mathring{A} 34'34	
direct	7012 May 23 10:57	15° \mathring{M} 15'41		evening set			
evening set	7012 Aug 19 17:36	17° \mathring{M} 09'57					

conjunction	7018 Sep 19 08:46	1° <u>♁</u> 10'34	-0°08'27	retrograde	7024 Jan 14 17:22	14° <u>♁</u> 50'22	
minimum elong	7018 Sep 19 08:46	1° <u>♁</u> 10'34	0°08'27	opposition	7024 Apr 01 19:44	13° <u>♁</u> 26'26	0°07'58
behind sun begin	7018 Sep 19 03:01	1° <u>♁</u> 10'03		min. Earth dist.	7024 Apr 01 18:18	13° <u>♁</u> 26'32	29.01383 AU
behind sun end	7018 Sep 19 14:31	1° <u>♁</u> 11'05		direct	7024 Jun 19 11:04	12° <u>♁</u> 01'53	
max. Earth dist.	7018 Sep 19 15:31	1° <u>♁</u> 11'10	30.96286 AU	evening set	7024 Sep 16 11:44	13° <u>♁</u> 56'26	
morning rise	7018 Oct 05 15:30	1° <u>♁</u> 46'39					
retrograde	7019 Jan 03 06:11	3° <u>♁</u> 42'33		conjunction	7024 Oct 02 18:23	14° <u>♁</u> 32'22	0°08'56
opposition	7019 Mar 22 15:15	2° <u>♁</u> 18'27	-0°07'26	minimum elong	7024 Oct 02 18:23	14° <u>♁</u> 32'22	0°08'57
min. Earth dist.	7019 Mar 22 10:13	2° <u>♁</u> 18'48	28.96853 AU	behind sun begin	7024 Oct 02 12:47	14° <u>♁</u> 31'52	
direct	7019 Jun 08 21:33	0° <u>♁</u> 54'08		behind sun end	7024 Oct 02 24:00	14° <u>♁</u> 32'52	
evening set	7019 Sep 05 16:13	2° <u>♁</u> 48'37		max. Earth dist.	7024 Oct 02 18:31	14° <u>♁</u> 32'22	31.01808 AU
				morning rise	7024 Oct 19 00:57	15° <u>♁</u> 08'18	
conjunction	7019 Sep 21 22:33	3° <u>♁</u> 24'37	-0°05'35	retrograde	7025 Jan 16 04:56	17° <u>♁</u> 03'19	
minimum elong	7019 Sep 21 22:34	3° <u>♁</u> 24'37	0°05'34	opposition	7025 Apr 04 06:05	15° <u>♁</u> 39'24	0°11'01
behind sun begin	7019 Sep 21 16:14	3° <u>♁</u> 24'03		min. Earth dist.	7025 Apr 04 05:54	15° <u>♁</u> 39'25	29.02258 AU
behind sun end	7019 Sep 22 04:54	3° <u>♁</u> 25'11		direct	7025 Jun 21 22:01	14° <u>♁</u> 14'49	
max. Earth dist.	7019 Sep 22 03:08	3° <u>♁</u> 25'01	30.97395 AU	evening set	7025 Sep 19 00:56	16° <u>♁</u> 09'22	
morning rise	7019 Oct 08 05:27	4° <u>♁</u> 00'40					
retrograde	7020 Jan 05 18:54	5° <u>♁</u> 56'27		conjunction	7025 Oct 05 07:45	16° <u>♁</u> 45'18	0°11'46
opposition	7020 Mar 24 01:48	4° <u>♁</u> 32'24	-0°04'21	minimum elong	7025 Oct 05 07:44	16° <u>♁</u> 45'18	0°11'47
min. Earth dist.	7020 Mar 23 21:09	4° <u>♁</u> 32'44	28.97912 AU	behind sun begin	7025 Oct 05 03:12	16° <u>♁</u> 44'53	
direct	7020 Jun 10 08:50	3° <u>♁</u> 08'03		behind sun end	7025 Oct 05 12:16	16° <u>♁</u> 45'42	
evening set	7020 Sep 07 05:52	5° <u>♁</u> 02'34		max. Earth dist.	7025 Oct 05 08:13	16° <u>♁</u> 45'20	31.02723 AU
				morning rise	7025 Oct 21 14:03	17° <u>♁</u> 21'12	
conjunction	7020 Sep 23 12:25	5° <u>♁</u> 38'34	-0°02'42	retrograde	7026 Jan 18 16:07	19° <u>♁</u> 16'04	
minimum elong	7020 Sep 23 12:25	5° <u>♁</u> 38'34	0°02'41	opposition	7026 Apr 06 16:15	17° <u>♁</u> 52'12	0°14'03
behind sun begin	7020 Sep 23 05:50	5° <u>♁</u> 37'59		min. Earth dist.	7026 Apr 06 16:11	17° <u>♁</u> 52'13	29.03218 AU
behind sun end	7020 Sep 23 19:00	5° <u>♁</u> 39'09		direct	7026 Jun 24 10:25	16° <u>♁</u> 27'35	
max. Earth dist.	7020 Sep 23 16:42	5° <u>♁</u> 38'55	30.98393 AU	evening set	7026 Sep 21 14:15	18° <u>♁</u> 22'10	
morning rise	7020 Oct 09 19:08	6° <u>♁</u> 14'36					
retrograde	7021 Jan 07 05:20	8° <u>♁</u> 10'14		conjunction	7026 Oct 07 20:53	18° <u>♁</u> 58'04	0°14'35
opposition	7021 Mar 26 12:32	6° <u>♁</u> 46'13	-0°01'15	minimum elong	7026 Oct 07 20:53	18° <u>♁</u> 58'04	0°14'37
min. Earth dist.	7021 Mar 26 09:37	6° <u>♁</u> 46'26	28.98859 AU	behind sun begin	7026 Oct 07 18:19	18° <u>♁</u> 57'51	
direct	7021 Jun 12 20:00	5° <u>♁</u> 21'50		behind sun end	7026 Oct 07 23:27	18° <u>♁</u> 58'18	
asc. node	7021 Aug 23 06:25	6° <u>♁</u> 39'56		max. Earth dist.	7026 Oct 07 19:47	18° <u>♁</u> 57'58	31.03743 AU
evening set	7021 Sep 09 19:19	7° <u>♁</u> 16'22		morning rise	7026 Oct 24 03:14	19° <u>♁</u> 33'58	
				retrograde	7027 Jan 21 03:07	21° <u>♁</u> 28'42	
conjunction	7021 Sep 26 01:57	7° <u>♁</u> 52'20	0°00'17	opposition	7027 Apr 09 02:31	20° <u>♁</u> 04'54	0°17'03
minimum elong	7021 Sep 26 01:55	7° <u>♁</u> 52'20	0°00'17	min. Earth dist.	7027 Apr 09 02:53	20° <u>♁</u> 04'52	29.04309 AU
behind sun begin	7021 Sep 25 19:22	7° <u>♁</u> 51'45		direct	7027 Jun 26 20:44	18° <u>♁</u> 40'15	
behind sun end	7021 Sep 26 08:28	7° <u>♁</u> 52'55		evening set	7027 Sep 24 03:27	20° <u>♁</u> 34'52	
max. Earth dist.	7021 Sep 26 04:47	7° <u>♁</u> 52'32	30.99307 AU				
morning rise	7021 Oct 12 08:42	8° <u>♁</u> 28'21		conjunction	7027 Oct 10 10:13	21° <u>♁</u> 10'46	0°17'23
retrograde	7022 Jan 09 18:12	10° <u>♁</u> 23'50		minimum elong	7027 Oct 10 10:13	21° <u>♁</u> 10'46	0°17'24
opposition	7022 Mar 28 23:02	8° <u>♁</u> 59'51	0°01'50	max. Earth dist.	7027 Oct 10 09:41	21° <u>♁</u> 10'43	31.04892 AU
min. Earth dist.	7022 Mar 28 20:01	9° <u>♁</u> 00'03	28.99732 AU	morning rise	7027 Oct 26 16:13	21° <u>♁</u> 46'38	
direct	7022 Jun 15 09:38	7° <u>♁</u> 35'24		retrograde	7028 Jan 23 12:13	22° <u>♁</u> 41'15	
evening set	7022 Sep 12 08:53	9° <u>♁</u> 29'56		opposition	7028 Apr 10 12:40	22° <u>♁</u> 17'32	0°20'02
				min. Earth dist.	7028 Apr 10 13:46	22° <u>♁</u> 17'27	29.05517 AU
conjunction	7022 Sep 28 15:32	10° <u>♁</u> 05'54	0°03'13	direct	7028 Jun 28 08:14	20° <u>♁</u> 52'55	
minimum elong	7022 Sep 28 15:32	10° <u>♁</u> 05'54	0°03'14	evening set	7028 Sep 25 16:45	22° <u>♁</u> 47'34	
behind sun begin	7022 Sep 28 08:59	10° <u>♁</u> 05'19					
behind sun end	7022 Sep 28 22:06	10° <u>♁</u> 06'29		conjunction	7028 Oct 11 23:18	23° <u>♁</u> 23'28	0°20'09
max. Earth dist.	7022 Sep 28 17:36	10° <u>♁</u> 06'02	31.00146 AU	minimum elong	7028 Oct 11 23:18	23° <u>♁</u> 23'28	0°20'11
morning rise	7022 Oct 14 22:14	10° <u>♁</u> 41'53		max. Earth dist.	7028 Oct 11 21:09	23° <u>♁</u> 23'16	31.06171 AU
retrograde	7023 Jan 12 05:24	12° <u>♁</u> 37'13		morning rise	7028 Oct 28 05:17	23° <u>♁</u> 59'19	
opposition	7023 Mar 31 09:27	11° <u>♁</u> 13'15	0°04'54	retrograde	7029 Jan 25 00:24	25° <u>♁</u> 53'49	
min. Earth dist.	7023 Mar 31 08:14	11° <u>♁</u> 13'20	29.00560 AU	opposition	7029 Apr 12 22:50	24° <u>♁</u> 30'12	0°22'59
direct	7023 Jun 17 21:38	9° <u>♁</u> 48'45		min. Earth dist.	7029 Apr 12 23:46	24° <u>♁</u> 30'08	29.06848 AU
evening set	7023 Sep 14 22:19	11° <u>♁</u> 43'17		direct	7029 Jun 30 18:19	23° <u>♁</u> 05'36	
				evening set	7029 Sep 28 05:47	25° <u>♁</u> 00'20	
conjunction	7023 Oct 01 05:07	12° <u>♁</u> 19'15	0°06'05				
minimum elong	7023 Oct 01 05:06	12° <u>♁</u> 19'14	0°06'06	conjunction	7029 Oct 14 12:22	25° <u>♁</u> 36'12	0°22'54
behind sun begin	7023 Sep 30 22:51	12° <u>♁</u> 18'41		minimum elong	7029 Oct 14 12:22	25° <u>♁</u> 36'12	0°22'56
behind sun end	7023 Oct 01 11:21	12° <u>♁</u> 19'48		max. Earth dist.	7029 Oct 14 10:31	25° <u>♁</u> 36'02	31.07530 AU
max. Earth dist.	7023 Oct 01 06:32	12° <u>♁</u> 19'21	31.00973 AU	morning rise	7029 Oct 30 18:02	26° <u>♁</u> 12'02	
morning rise	7023 Oct 17 11:43	12° <u>♁</u> 55'12		retrograde	7030 Jan 27 10:09	28° <u>♁</u> 06'28	

opposition	7030 Apr 15 09:06	26° <u>♂</u> 42'57	0°25'54	direct	7036 Jul 16 06:15	8° <u>♂</u> 34'05	
min. Earth dist.	7030 Apr 15 11:37	26° <u>♂</u> 42'47	29.08225 AU	evening set	7036 Oct 14 02:10	10° <u>♂</u> 29'01	
direct	7030 Jul 03 04:19	25° <u>♂</u> 18'23					
evening set	7030 Sep 30 19:08	27° <u>♂</u> 13'11		conjunction	7036 Oct 30 07:41	11° <u>♂</u> 04'44	0°40'54
				minimum elong	7036 Oct 30 07:41	11° <u>♂</u> 04'44	0°40'58
conjunction	7030 Oct 17 01:33	27° <u>♂</u> 49'02	0°25'36	max. Earth dist.	7036 Oct 29 23:35	11° <u>♂</u> 03'59	31.15377 AU
minimum elong	7030 Oct 17 01:32	27° <u>♂</u> 49'02	0°25'39	morning rise	7036 Nov 15 11:26	11° <u>♂</u> 40'20	
max. Earth dist.	7030 Oct 16 22:18	27° <u>♂</u> 48'44	31.08910 AU	retrograde	7037 Feb 11 15:36	13° <u>♂</u> 33'53	
morning rise	7030 Nov 02 07:06	28° <u>♂</u> 24'50		opposition	7037 Apr 30 08:12	12° <u>♂</u> 10'46	0°44'57
	7030 Dec 27 02:19	0° <u>♂</u>		min. Earth dist.	7037 Apr 30 16:11	12° <u>♂</u> 10'12	29.15843 AU
retrograde	7031 Jan 29 22:25	0° <u>♂</u> 19'10		direct	7037 Jul 18 18:17	10° <u>♂</u> 46'03	
	7031 Mar 05 06:28	30° <u>♂</u>		evening set	7037 Oct 16 14:56	12° <u>♂</u> 40'58	
opposition	7031 Apr 17 19:07	28° <u>♂</u> 55'46	0°28'47				
min. Earth dist.	7031 Apr 17 21:34	28° <u>♂</u> 55'35	29.09583 AU	conjunction	7037 Nov 01 20:05	13° <u>♂</u> 16'40	0°43'15
direct	7031 Jul 05 17:26	27° <u>♂</u> 31'13		minimum elong	7037 Nov 01 20:05	13° <u>♂</u> 16'40	0°43'18
evening set	7031 Oct 03 08:31	29° <u>♂</u> 26'04		max. Earth dist.	7037 Nov 01 10:21	13° <u>♂</u> 15'46	31.16285 AU
	7031 Oct 18 18:09	0° <u>♂</u>		morning rise	7037 Nov 17 23:42	13° <u>♂</u> 52'13	
					7037 Dec 23 00:10	15° <u>♂</u>	
conjunction	7031 Oct 19 14:49	0° <u>♂</u> 01'54	0°28'17	retrograde	7038 Feb 14 02:54	15° <u>♂</u> 45'38	
minimum elong	7031 Oct 19 14:49	0° <u>♂</u> 01'54	0°28'19		7038 Apr 09 15:15	15° <u>♂</u>	
max. Earth dist.	7031 Oct 19 10:46	0° <u>♂</u> 01'32	31.10223 AU	opposition	7038 May 02 18:10	14° <u>♂</u> 22'32	0°47'26
morning rise	7031 Nov 04 20:03	0° <u>♂</u> 37'41		min. Earth dist.	7038 May 03 01:56	14° <u>♂</u> 22'00	29.16778 AU
retrograde	7032 Feb 01 09:21	2° <u>♂</u> 31'55		direct	7038 Jul 21 04:52	12° <u>♂</u> 57'47	
opposition	7032 Apr 19 05:29	1° <u>♂</u> 08'36	0°31'37	evening set	7038 Oct 19 03:41	14° <u>♂</u> 52'42	
min. Earth dist.	7032 Apr 19 09:47	1° <u>♂</u> 08'17	29.10859 AU		7038 Oct 22 12:19	15° <u>♂</u>	
	7032 Jun 05 18:21	30° <u>♂</u>					
direct	7032 Jul 07 04:52	29° <u>♂</u> 44'03		conjunction	7038 Nov 04 08:43	15° <u>♂</u> 28'22	0°45'32
	7032 Aug 07 09:29	0° <u>♂</u>		minimum elong	7038 Nov 04 08:43	15° <u>♂</u> 28'22	0°45'36
evening set	7032 Oct 04 21:42	1° <u>♂</u> 38'57		max. Earth dist.	7038 Nov 03 23:20	15° <u>♂</u> 27'30	31.17242 AU
				morning rise	7038 Nov 20 11:50	16° <u>♂</u> 03'53	
conjunction	7032 Oct 21 03:52	2° <u>♂</u> 14'46	0°30'54	retrograde	7039 Feb 16 11:07	17° <u>♂</u> 57'10	
minimum elong	7032 Oct 21 03:52	2° <u>♂</u> 14'46	0°30'57	opposition	7039 May 05 04:12	16° <u>♂</u> 34'07	0°49'50
max. Earth dist.	7032 Oct 20 22:58	2° <u>♂</u> 14'19	31.11445 AU	min. Earth dist.	7039 May 05 13:18	16° <u>♂</u> 33'29	29.17782 AU
morning rise	7032 Nov 06 08:50	2° <u>♂</u> 50'30		direct	7039 Jul 23 15:22	15° <u>♂</u> 09'20	
retrograde	7033 Feb 02 21:10	4° <u>♂</u> 44'38		evening set	7039 Oct 21 16:28	17° <u>♂</u> 04'16	
opposition	7033 Apr 21 15:40	3° <u>♂</u> 21'22	0°34'24				
min. Earth dist.	7033 Apr 21 19:56	3° <u>♂</u> 21'04	29.12019 AU	conjunction	7039 Nov 06 21:08	17° <u>♂</u> 39'53	0°47'45
direct	7033 Jul 09 18:00	1° <u>♂</u> 56'49		minimum elong	7039 Nov 06 21:08	17° <u>♂</u> 39'53	0°47'48
evening set	7033 Oct 07 10:59	3° <u>♂</u> 51'45		max. Earth dist.	7039 Nov 06 10:48	17° <u>♂</u> 38'56	31.18301 AU
				morning rise	7039 Nov 23 00:00	18° <u>♂</u> 15'23	
conjunction	7033 Oct 23 16:55	4° <u>♂</u> 27'32	0°33'29	retrograde	7040 Feb 18 21:48	20° <u>♂</u> 08'33	
minimum elong	7033 Oct 23 16:55	4° <u>♂</u> 27'32	0°33'32	opposition	7040 May 06 14:11	18° <u>♂</u> 45'33	0°52'10
max. Earth dist.	7033 Oct 23 10:24	4° <u>♂</u> 26'56	31.12546 AU	min. Earth dist.	7040 May 06 22:38	18° <u>♂</u> 44'58	29.18895 AU
morning rise	7033 Nov 08 21:40	5° <u>♂</u> 03'15		direct	7040 Jul 25 03:40	17° <u>♂</u> 20'46	
retrograde	7034 Feb 05 09:12	6° <u>♂</u> 57'14		evening set	7040 Oct 23 05:00	19° <u>♂</u> 15'44	
opposition	7034 Apr 24 01:52	5° <u>♂</u> 34'02	0°37'07				
min. Earth dist.	7034 Apr 24 07:40	5° <u>♂</u> 33'37	29.13081 AU	conjunction	7040 Nov 08 09:24	19° <u>♂</u> 51'20	0°49'54
direct	7034 Jul 12 05:31	4° <u>♂</u> 09'27		minimum elong	7040 Nov 08 09:24	19° <u>♂</u> 51'20	0°49'58
evening set	7034 Oct 10 00:04	6° <u>♂</u> 04'23		max. Earth dist.	7040 Nov 07 22:58	19° <u>♂</u> 50'22	31.19461 AU
				morning rise	7040 Nov 24 11:50	20° <u>♂</u> 26'47	
conjunction	7034 Oct 26 06:00	6° <u>♂</u> 40'09	0°36'01	retrograde	7041 Feb 20 07:43	22° <u>♂</u> 19'52	
minimum elong	7034 Oct 26 06:00	6° <u>♂</u> 40'09	0°36'04	opposition	7041 May 09 00:20	20° <u>♂</u> 56'57	0°54'25
max. Earth dist.	7034 Oct 25 23:23	6° <u>♂</u> 39'33	31.13558 AU	min. Earth dist.	7041 May 09 10:03	20° <u>♂</u> 56'16	29.20112 AU
morning rise	7034 Nov 11 10:24	7° <u>♂</u> 15'49		direct	7041 Jul 27 13:57	19° <u>♂</u> 32'11	
retrograde	7035 Feb 07 20:20	9° <u>♂</u> 09'40		evening set	7041 Oct 25 17:35	21° <u>♂</u> 27'12	
opposition	7035 Apr 26 12:01	7° <u>♂</u> 46'30	0°39'48				
min. Earth dist.	7035 Apr 26 18:22	7° <u>♂</u> 46'03	29.14039 AU	conjunction	7041 Nov 10 21:46	22° <u>♂</u> 02'46	0°51'59
direct	7035 Jul 14 19:12	6° <u>♂</u> 21'53		minimum elong	7041 Nov 10 21:45	22° <u>♂</u> 02'46	0°52'02
evening set	7035 Oct 12 13:17	8° <u>♂</u> 16'49		max. Earth dist.	7041 Nov 10 11:02	22° <u>♂</u> 01'46	31.20721 AU
				morning rise	7041 Nov 26 23:50	22° <u>♂</u> 38'11	
conjunction	7035 Oct 28 18:50	8° <u>♂</u> 52'34	0°38'29	retrograde	7042 Feb 22 18:59	24° <u>♂</u> 31'11	
minimum elong	7035 Oct 28 18:50	8° <u>♂</u> 52'34	0°38'32	opposition	7042 May 11 10:14	23° <u>♂</u> 08'23	0°56'36
max. Earth dist.	7035 Oct 28 10:19	8° <u>♂</u> 51'47	31.14483 AU	min. Earth dist.	7042 May 11 19:37	23° <u>♂</u> 07'43	29.21386 AU
morning rise	7035 Nov 13 23:03	9° <u>♂</u> 28'12		direct	7042 Jul 30 02:23	21° <u>♂</u> 43'39	
retrograde	7036 Feb 10 06:44	11° <u>♂</u> 21'54		evening set	7042 Oct 28 06:19	23° <u>♂</u> 38'43	
opposition	7036 Apr 27 22:04	9° <u>♂</u> 58'45	0°42'24				
min. Earth dist.	7036 Apr 28 05:08	9° <u>♂</u> 58'16	29.14951 AU	conjunction	7042 Nov 13 10:06	24° <u>♂</u> 14'16	0°53'59

minimum elong	7042 Nov 13 10:06	24° 11 14'16	0°54'03	opposition	7049 May 26 09:31	8° 27 28'48	1°09'20
max. Earth dist.	7042 Nov 12 22:10	24° 11 13'10	31.21995 AU	min. Earth dist.	7049 May 26 23:41	8° 27 27'49	29.27846 AU
morning rise	7042 Nov 29 11:51	24° 11 49'39		direct	7049 Aug 14 11:35	7° 27 04'06	
retrograde	7043 Feb 25 06:52	26° 11 42'36		evening set	7049 Nov 12 21:28	8° 27 59'20	
opposition	7043 May 13 20:23	25° 11 19'53	0°58'42				
min. Earth dist.	7043 May 14 07:02	25° 11 19'09	29.22656 AU	conjunction	7049 Nov 28 22:53	9° 27 34'42	1°05'35
direct	7043 Aug 01 13:30	23° 11 55'12		minimum elong	7049 Nov 28 22:53	9° 27 34'42	1°05'39
evening set	7043 Oct 30 18:55	25° 11 50'20		max. Earth dist.	7049 Nov 28 06:14	9° 27 33'09	31.28070 AU
				morning rise	7049 Dec 14 21:39	10° 27 09'50	
conjunction	7043 Nov 15 22:30	26° 11 25'51	0°55'54	retrograde	7050 Mar 12 04:27	12° 27 02'13	
minimum elong	7043 Nov 15 22:30	26° 11 25'51	0°55'57	opposition	7050 May 28 19:37	10° 27 39'51	1°10'45
max. Earth dist.	7043 Nov 15 10:40	26° 11 24'46	31.23225 AU	min. Earth dist.	7050 May 29 11:11	10° 27 38'46	29.28401 AU
morning rise	7043 Dec 01 23:42	27° 11 01'12		direct	7050 Aug 16 21:15	9° 27 15'05	
retrograde	7044 Feb 27 17:44	28° 11 54'05		evening set	7050 Nov 15 09:31	11° 27 10'20	
opposition	7044 May 15 06:32	27° 11 31'28	1°00'42				
min. Earth dist.	7044 May 15 17:43	27° 11 30'41	29.23835 AU	conjunction	7050 Dec 01 10:36	11° 27 45'39	1°06'53
direct	7044 Aug 03 02:49	26° 11 06'49		minimum elong	7050 Dec 01 10:36	11° 27 45'39	1°06'58
evening set	7044 Nov 01 07:39	28° 11 02'00		max. Earth dist.	7050 Nov 30 17:46	11° 27 44'06	31.28630 AU
				morning rise	7050 Dec 17 08:57	12° 27 20'45	
conjunction	7044 Nov 17 10:44	28° 11 37'29	0°57'44	retrograde	7051 Mar 14 14:39	14° 27 13'03	
minimum elong	7044 Nov 17 10:43	28° 11 37'29	0°57'49	opposition	7051 May 31 05:44	12° 27 50'41	1°12'05
max. Earth dist.	7044 Nov 16 21:04	28° 11 36'14	31.24347 AU	min. Earth dist.	7051 May 31 20:45	12° 27 49'39	29.28972 AU
morning rise	7044 Dec 03 11:40	29° 11 12'49		direct	7051 Aug 19 09:56	11° 27 25'54	
	7044 Dec 26 16:59	0° 27		evening set	7051 Nov 17 21:29	13° 27 21'09	
retrograde	7045 Mar 01 04:49	1° 27 05'38					
	7045 May 07 11:54	30° 27 8'11		conjunction	7051 Dec 03 22:03	13° 27 56'26	1°08'05
opposition	7045 May 17 16:44	29° 27 43'05	1°02'37	minimum elong	7051 Dec 03 22:03	13° 27 56'26	1°08'09
min. Earth dist.	7045 May 18 04:32	29° 27 42'16	29.24906 AU	max. Earth dist.	7051 Dec 03 04:28	13° 27 54'48	31.29225 AU
direct	7045 Aug 05 13:36	28° 27 18'27		morning rise	7051 Dec 19 19:59	14° 27 31'30	
	7045 Oct 28 10:16	0° 27		retrograde	7052 Mar 16 01:52	16° 27 23'43	
evening set	7045 Nov 03 20:03	0° 27 13'40		opposition	7052 Jun 01 15:58	15° 27 01'23	1°13'19
				min. Earth dist.	7052 Jun 02 07:34	15° 27 00'18	29.29623 AU
conjunction	7045 Nov 19 22:59	0° 27 49'08	0°59'29	direct	7052 Aug 20 21:20	13° 27 36'35	
minimum elong	7045 Nov 19 22:59	0° 27 49'08	0°59'32	evening set	7052 Nov 19 09:14	15° 27 31'51	
max. Earth dist.	7045 Nov 19 09:35	0° 27 47'54	31.25338 AU				
morning rise	7045 Dec 05 23:22	1° 27 24'25		conjunction	7052 Dec 05 09:32	16° 27 07'06	1°09'11
retrograde	7046 Mar 03 14:00	3° 27 17'09		minimum elong	7052 Dec 05 09:32	16° 27 07'06	1°09'16
opposition	7046 May 20 03:01	1° 27 54'40	1°04'26	max. Earth dist.	7052 Dec 04 16:43	16° 27 05'33	31.29923 AU
min. Earth dist.	7046 May 20 16:02	1° 27 53'46	29.25820 AU	morning rise	7052 Dec 21 06:56	16° 27 42'07	
direct	7046 Aug 08 01:51	0° 27 30'02		retrograde	7053 Mar 18 11:55	18° 27 34'17	
evening set	7046 Nov 06 08:42	2° 27 25'17		opposition	7053 Jun 04 02:08	17° 27 11'59	1°14'26
				min. Earth dist.	7053 Jun 04 17:42	17° 27 10'55	29.30363 AU
conjunction	7046 Nov 22 11:08	3° 27 00'43	1°01'09	direct	7053 Aug 23 10:32	15° 27 47'13	
minimum elong	7046 Nov 22 11:08	3° 27 00'43	1°01'13	evening set	7053 Nov 21 21:00	17° 27 42'30	
max. Earth dist.	7046 Nov 21 19:45	2° 27 59'18	31.26185 AU				
morning rise	7046 Dec 08 11:15	3° 27 35'58		conjunction	7053 Dec 07 20:47	18° 27 17'43	1°10'10
retrograde	7047 Mar 06 01:31	5° 27 28'37		minimum elong	7053 Dec 07 20:47	18° 27 17'43	1°10'14
opposition	7047 May 22 13:05	4° 27 06'11	1°06'10	max. Earth dist.	7053 Dec 07 02:51	18° 27 16'03	31.30710 AU
min. Earth dist.	7047 May 23 02:06	4° 27 05'17	29.26602 AU	morning rise	7053 Dec 23 17:55	18° 27 52'43	
direct	7047 Aug 10 12:36	2° 27 41'32		retrograde	7054 Mar 20 22:55	20° 27 44'50	
evening set	7047 Nov 08 21:07	4° 27 36'48		opposition	7054 Jun 06 12:20	19° 27 22'36	1°15'27
				min. Earth dist.	7054 Jun 07 03:52	19° 27 21'31	29.31186 AU
conjunction	7047 Nov 24 23:19	5° 27 12'12	1°02'43	direct	7054 Aug 25 21:00	17° 27 57'50	
minimum elong	7047 Nov 24 23:19	5° 27 12'12	1°02'47	evening set	7054 Nov 24 08:41	19° 27 53'09	
max. Earth dist.	7047 Nov 24 08:01	5° 27 10'48	31.26896 AU				
morning rise	7047 Dec 10 22:51	5° 27 47'25		conjunction	7054 Dec 10 08:14	20° 27 28'21	1°11'04
retrograde	7048 Mar 07 09:27	7° 27 39'59		minimum elong	7054 Dec 10 08:14	20° 27 28'21	1°11'09
opposition	7048 May 23 23:24	6° 27 17'35	1°07'48	max. Earth dist.	7054 Dec 09 15:10	20° 27 26'46	31.31543 AU
min. Earth dist.	7048 May 24 14:02	6° 27 16'34	29.27262 AU	morning rise	7054 Dec 26 04:44	21° 27 03'18	
direct	7048 Aug 11 23:19	4° 27 52'55		retrograde	7055 Mar 23 08:26	22° 27 55'23	
evening set	7048 Nov 10 09:19	6° 27 48'10		opposition	7055 Jun 08 22:34	21° 27 33'14	1°16'21
				min. Earth dist.	7055 Jun 09 14:58	21° 27 32'06	29.32016 AU
conjunction	7048 Nov 26 11:03	7° 27 23'32	1°04'12	direct	7055 Aug 28 09:42	20° 27 08'31	
minimum elong	7048 Nov 26 11:03	7° 27 23'32	1°04'17	evening set	7055 Nov 26 20:30	22° 27 03'51	
max. Earth dist.	7048 Nov 25 18:39	7° 27 22'01	31.27516 AU				
morning rise	7048 Dec 12 10:18	7° 27 58'43		conjunction	7055 Dec 12 19:28	22° 27 39'01	1°11'52
retrograde	7049 Mar 09 19:16	9° 27 51'11		minimum elong	7055 Dec 12 19:27	22° 27 39'01	1°11'56

max. Earth dist.	7055 Dec 12 01:01	22° \mathring{A} 37'19	31.32365 AU	min. Earth dist.	7062 Jun 24 18:42	6° \mathring{B} 45'38	29.35074 AU
morning rise	7055 Dec 28 15:41	23° \mathring{A} 13'57		direct	7062 Sep 12 17:30	5° \mathring{B} 22'11	
retrograde	7056 Mar 24 20:07	25° \mathring{A} 06'00		evening set	7062 Dec 12 04:46	7° \mathring{B} 17'31	
opposition	7056 Jun 10 08:53	23° \mathring{A} 43'54	1°17'08	max. Earth dist.	7062 Dec 27 03:48	7° \mathring{B} 50'32	31.35054 AU
min. Earth dist.	7056 Jun 11 00:50	23° \mathring{A} 42'48	29.32813 AU				
direct	7056 Aug 29 20:58	22° \mathring{A} 19'13		conjunction	7062 Dec 28 00:50	7° \mathring{B} 52'29	1°14'30
evening set	7056 Nov 28 08:00	24° \mathring{A} 14'35		minimum elong	7062 Dec 28 00:50	7° \mathring{B} 52'29	1°14'35
				morning rise	7063 Jan 12 18:04	8° \mathring{B} 27'12	
conjunction	7056 Dec 14 06:41	24° \mathring{A} 49'43	1°12'33	retrograde	7063 Apr 09 16:15	10° \mathring{B} 19'00	
minimum elong	7056 Dec 14 06:41	24° \mathring{A} 49'43	1°12'38	opposition	7063 Jun 26 10:14	8° \mathring{B} 56'59	1°19'34
max. Earth dist.	7056 Dec 13 12:39	24° \mathring{A} 48'03	31.33109 AU	min. Earth dist.	7063 Jun 27 04:53	8° \mathring{B} 55'42	29.35179 AU
morning rise	7056 Dec 30 02:19	25° \mathring{A} 24'38		direct	7063 Sep 15 04:16	7° \mathring{B} 32'13	
retrograde	7057 Mar 27 04:07	27° \mathring{A} 16'39		evening set	7063 Dec 14 15:43	9° \mathring{B} 27'33	
opposition	7057 Jun 12 19:25	25° \mathring{A} 54'36	1°17'49				
min. Earth dist.	7057 Jun 13 12:50	25° \mathring{A} 53'24	29.33509 AU	conjunction	7063 Dec 30 11:32	10° \mathring{B} 02'29	1°14'28
direct	7057 Sep 01 07:48	24° \mathring{A} 29'56		minimum elong	7063 Dec 30 11:32	10° \mathring{B} 02'29	1°14'31
evening set	7057 Nov 30 19:44	26° \mathring{A} 25'19		max. Earth dist.	7063 Dec 29 15:45	10° \mathring{B} 00'39	31.35172 AU
				morning rise	7064 Jan 15 04:11	10° \mathring{B} 37'10	
conjunction	7057 Dec 16 17:54	27° \mathring{A} 00'25	1°13'08	retrograde	7064 Apr 11 01:30	12° \mathring{B} 28'56	
minimum elong	7057 Dec 16 17:54	27° \mathring{A} 00'25	1°13'12	opposition	7064 Jun 27 20:54	11° \mathring{B} 06'56	1°19'28
max. Earth dist.	7057 Dec 15 22:52	26° \mathring{A} 58'39	31.33746 AU	min. Earth dist.	7064 Jun 28 15:57	11° \mathring{B} 05'37	29.35329 AU
morning rise	7058 Jan 01 13:13	27° \mathring{A} 35'17		direct	7064 Sep 16 17:18	9° \mathring{B} 42'10	
retrograde	7058 Mar 29 13:54	29° \mathring{A} 27'16		evening set	7064 Dec 16 02:35	11° \mathring{B} 37'29	
opposition	7058 Jun 15 05:41	28° \mathring{A} 05'16	1°18'23				
min. Earth dist.	7058 Jun 15 22:39	28° \mathring{A} 04'06	29.34074 AU	conjunction	7064 Dec 31 21:51	12° \mathring{B} 12'23	1°14'19
direct	7058 Sep 03 19:24	26° \mathring{A} 40'36		minimum elong	7064 Dec 31 21:51	12° \mathring{B} 12'23	1°14'24
evening set	7058 Dec 03 07:25	28° \mathring{A} 35'59		max. Earth dist.	7064 Dec 31 01:19	12° \mathring{B} 10'29	31.35372 AU
max. Earth dist.	7058 Dec 18 09:47	29° \mathring{A} 09'16	31.34233 AU	morning rise	7065 Jan 16 14:16	12° \mathring{B} 47'03	
				retrograde	7065 Apr 13 12:59	14° \mathring{B} 38'49	
conjunction	7058 Dec 19 05:13	29° \mathring{A} 11'04	1°13'37	opposition	7065 Jun 30 07:26	13° \mathring{B} 16'50	1°19'16
minimum elong	7058 Dec 19 05:13	29° \mathring{A} 11'04	1°13'42	min. Earth dist.	7065 Jul 01 01:19	13° \mathring{B} 15'36	29.35579 AU
morning rise	7059 Jan 04 00:01	29° \mathring{A} 45'55		direct	7065 Sep 19 04:52	11° \mathring{B} 52'05	
	7059 Jan 10 14:13	0° \mathring{B}		evening set	7065 Dec 18 13:25	13° \mathring{B} 47'25	
retrograde	7059 Mar 31 23:18	1° \mathring{B} 37'51					
opposition	7059 Jun 17 16:18	0° \mathring{B} 15'52	1°18'51	conjunction	7066 Jan 03 08:25	14° \mathring{B} 22'18	1°14'04
min. Earth dist.	7059 Jun 18 10:39	0° \mathring{B} 14'36	29.34499 AU	minimum elong	7066 Jan 03 08:25	14° \mathring{B} 22'18	1°14'08
	7059 Jun 27 07:56	30° \mathring{R} \mathring{A}		max. Earth dist.	7066 Jan 02 12:50	14° \mathring{B} 20'29	31.35666 AU
direct	7059 Sep 06 04:52	28° \mathring{A} 51'12		morning rise	7066 Jan 19 00:17	14° \mathring{B} 56'57	
	7059 Nov 12 21:27	0° \mathring{B}		retrograde	7066 Apr 15 20:52	16° \mathring{B} 48'44	
evening set	7059 Dec 05 18:53	0° \mathring{B} 46'34		opposition	7066 Jul 02 18:01	15° \mathring{B} 26'47	1°18'56
				min. Earth dist.	7066 Jul 03 12:47	15° \mathring{B} 25'29	29.35917 AU
conjunction	7059 Dec 21 16:16	1° \mathring{B} 21'37	1°14'00	direct	7066 Sep 21 15:33	14° \mathring{B} 02'05	
minimum elong	7059 Dec 21 16:16	1° \mathring{B} 21'37	1°14'04	evening set	7066 Dec 21 00:20	15° \mathring{B} 57'26	
max. Earth dist.	7059 Dec 20 20:40	1° \mathring{B} 19'48	31.34589 AU				
morning rise	7060 Jan 06 10:38	1° \mathring{B} 56'26		conjunction	7067 Jan 05 18:51	16° \mathring{B} 32'18	1°13'42
retrograde	7060 Apr 02 09:01	3° \mathring{B} 48'20		minimum elong	7067 Jan 05 18:51	16° \mathring{B} 32'18	1°13'48
opposition	7060 Jun 19 02:48	2° \mathring{B} 26'22	1°19'12	max. Earth dist.	7067 Jan 04 23:04	16° \mathring{B} 30'28	31.36048 AU
min. Earth dist.	7060 Jun 19 20:46	2° \mathring{B} 25'08	29.34781 AU	morning rise	7067 Jan 21 10:26	17° \mathring{B} 06'55	
direct	7060 Sep 07 17:36	1° \mathring{B} 01'41		retrograde	7067 Apr 18 06:33	18° \mathring{B} 58'43	
evening set	7060 Dec 07 06:21	2° \mathring{B} 57'03		opposition	7067 Jul 05 04:40	17° \mathring{B} 36'50	1°18'30
max. Earth dist.	7060 Dec 22 06:37	3° \mathring{B} 30'09	31.34814 AU	min. Earth dist.	7067 Jul 05 22:21	17° \mathring{B} 35'37	29.36312 AU
				direct	7067 Sep 24 02:43	16° \mathring{B} 12'12	
conjunction	7060 Dec 23 03:15	3° \mathring{B} 32'04	1°14'16	evening set	7067 Dec 23 11:02	18° \mathring{B} 07'34	
minimum elong	7060 Dec 23 03:15	3° \mathring{B} 32'04	1°14'22	max. Earth dist.	7068 Jan 07 09:36	18° \mathring{B} 40'36	31.36446 AU
morning rise	7061 Jan 07 21:15	4° \mathring{B} 06'50					
retrograde	7061 Apr 04 19:53	5° \mathring{B} 58'43		conjunction	7068 Jan 08 05:09	18° \mathring{B} 42'25	1°13'15
opposition	7061 Jun 21 13:16	4° \mathring{B} 36'43	1°19'26	minimum elong	7068 Jan 08 05:09	18° \mathring{B} 42'25	1°13'19
min. Earth dist.	7061 Jun 22 08:00	4° \mathring{B} 35'26	29.34969 AU	morning rise	7068 Jan 23 20:18	19° \mathring{B} 17'02	
direct	7061 Sep 10 04:23	3° \mathring{B} 12'00		retrograde	7068 Apr 19 16:14	21° \mathring{B} 08'53	
evening set	7061 Dec 09 17:30	5° \mathring{B} 07'22		opposition	7068 Jul 06 15:32	19° \mathring{B} 47'02	1°17'57
				min. Earth dist.	7068 Jul 07 10:05	19° \mathring{B} 45'46	29.36710 AU
conjunction	7061 Dec 25 14:10	5° \mathring{B} 42'21	1°14'26	direct	7068 Sep 25 11:11	18° \mathring{B} 22'28	
minimum elong	7061 Dec 25 14:10	5° \mathring{B} 42'21	1°14'30	evening set	7068 Dec 24 21:48	20° \mathring{B} 17'51	
max. Earth dist.	7061 Dec 24 18:13	5° \mathring{B} 40'30	31.34960 AU				
morning rise	7062 Jan 10 07:41	6° \mathring{B} 17'06		conjunction	7069 Jan 09 15:33	20° \mathring{B} 52'41	1°12'40
retrograde	7062 Apr 07 05:23	8° \mathring{B} 08'56		minimum elong	7069 Jan 09 15:33	20° \mathring{B} 52'41	1°12'46
opposition	7062 Jun 23 23:47	6° \mathring{B} 46'56	1°19'33	max. Earth dist.	7069 Jan 08 20:22	20° \mathring{B} 50'54	31.36825 AU

morning rise	7069 Jan 25 06:20	21° $\overline{3}$ 27'16	direct	7075 Oct 11 21:33	3° \approx 34'55	
retrograde	7069 Apr 22 01:53	23° $\overline{3}$ 19'10	evening set	7076 Jan 09 23:50	5° \approx 30'08	
opposition	7069 Jul 09 02:16	21° $\overline{3}$ 57'22 1°17'17				
min. Earth dist.	7069 Jul 09 20:15	21° $\overline{3}$ 56'08 29.37045 AU	conjunction	7076 Jan 25 14:56	6° \approx 04'49 1°05'52	
direct	7069 Sep 27 23:21	20° $\overline{3}$ 32'51	minimum elong	7076 Jan 25 14:56	6° \approx 04'49 1°05'56	
evening set	7069 Dec 27 08:36	22° $\overline{3}$ 28'14	max. Earth dist.	7076 Jan 24 19:34	6° \approx 03'01 31.36237 AU	
max. Earth dist.	7070 Jan 11 05:50	23° $\overline{3}$ 01'11 31.37110 AU	morning rise	7076 Feb 10 03:25	6° \approx 39'16	
			retrograde	7076 May 07 01:52	8° \approx 31'18	
conjunction	7070 Jan 12 01:53	23° $\overline{3}$ 03'03 1°12'00	opposition	7076 Jul 24 08:05	7° \approx 09'22 1°09'39	
minimum elong	7070 Jan 12 01:54	23° $\overline{3}$ 03'03 1°12'04	min. Earth dist.	7076 Jul 25 01:45	7° \approx 08'10 29.36118 AU	
morning rise	7070 Jan 27 16:23	23° $\overline{3}$ 37'37	direct	7076 Oct 13 09:58	5° \approx 44'51	
retrograde	7070 Apr 24 13:07	25° $\overline{3}$ 29'34	evening set	7077 Jan 11 10:04	7° \approx 40'01	
opposition	7070 Jul 11 13:14	24° $\overline{3}$ 07'47 1°16'30	max. Earth dist.	7077 Jan 26 05:53	8° \approx 12'55 31.35904 AU	
min. Earth dist.	7070 Jul 12 07:42	24° $\overline{3}$ 06'32 29.37281 AU				
direct	7070 Sep 30 09:13	22° $\overline{3}$ 43'18	conjunction	7077 Jan 27 00:50	8° \approx 14'41 1°04'31	
evening set	7070 Dec 29 19:17	24° $\overline{3}$ 38'42	minimum elong	7077 Jan 27 00:50	8° \approx 14'41 1°04'36	
			morning rise	7077 Feb 11 12:59	8° \approx 49'08	
conjunction	7071 Jan 14 12:18	25° $\overline{3}$ 13'29 1°11'13	retrograde	7077 May 09 11:25	10° \approx 41'12	
minimum elong	7071 Jan 14 12:18	25° $\overline{3}$ 13'29 1°11'18	opposition	7077 Jul 26 19:17	9° \approx 19'14 1°08'10	
max. Earth dist.	7071 Jan 13 17:04	25° $\overline{3}$ 11'42 31.37276 AU	min. Earth dist.	7077 Jul 27 13:19	9° \approx 18'00 29.35831 AU	
morning rise	7071 Jan 30 02:17	25° $\overline{3}$ 48'02	direct	7077 Oct 15 19:34	7° \approx 54'43	
retrograde	7071 Apr 26 22:46	27° $\overline{3}$ 40'01	evening set	7078 Jan 13 20:14	9° \approx 49'52	
opposition	7071 Jul 14 00:20	26° $\overline{3}$ 18'15 1°15'37				
min. Earth dist.	7071 Jul 14 18:59	26° $\overline{3}$ 16'59 29.37368 AU	conjunction	7078 Jan 29 10:44	10° \approx 24'30 1°03'05	
direct	7071 Oct 02 21:20	24° $\overline{3}$ 53'47	minimum elong	7078 Jan 29 10:44	10° \approx 24'30 1°03'08	
evening set	7072 Jan 01 06:05	26° $\overline{3}$ 49'11	max. Earth dist.	7078 Jan 28 16:44	10° \approx 22'49 31.35662 AU	
			morning rise	7078 Feb 13 22:34	10° \approx 58'56	
conjunction	7072 Jan 16 22:33	27° $\overline{3}$ 23'56 1°10'21	retrograde	7078 May 11 20:31	12° \approx 51'03	
minimum elong	7072 Jan 16 22:33	27° $\overline{3}$ 23'56 1°10'24	opposition	7078 Jul 29 06:34	11° \approx 29'05 1°06'34	
max. Earth dist.	7072 Jan 16 02:11	27° $\overline{3}$ 22'03 31.37299 AU	min. Earth dist.	7078 Jul 29 23:24	11° \approx 27'56 29.35616 AU	
morning rise	7072 Feb 01 12:20	27° $\overline{3}$ 58'29	direct	7078 Oct 18 07:47	10° \approx 04'36	
retrograde	7072 Apr 28 10:25	29° $\overline{3}$ 50'28	evening set	7079 Jan 16 06:24	11° \approx 59'44	
opposition	7072 Jul 15 11:25	28° $\overline{3}$ 28'42 1°14'38				
min. Earth dist.	7072 Jul 16 05:46	28° $\overline{3}$ 27'27 29.37327 AU	conjunction	7079 Jan 31 20:26	12° \approx 34'22 1°01'32	
direct	7072 Oct 04 07:59	27° $\overline{3}$ 04'14	minimum elong	7079 Jan 31 20:26	12° \approx 34'22 1°01'36	
evening set	7073 Jan 02 16:31	28° $\overline{3}$ 59'36	max. Earth dist.	7079 Jan 31 02:10	12° \approx 32'39 31.35488 AU	
			morning rise	7079 Feb 16 08:05	13° \approx 08'47	
conjunction	7073 Jan 18 08:48	29° $\overline{3}$ 34'21 1°09'22		7079 May 06 17:58	15° \approx	
minimum elong	7073 Jan 18 08:48	29° $\overline{3}$ 34'21 1°09'27	retrograde	7079 May 14 07:29	15° \approx 00'59	
max. Earth dist.	7073 Jan 17 13:26	29° $\overline{3}$ 32'33 31.37181 AU		7079 May 21 23:36	15° \approx	
	7073 Jan 29 21:05	0° \approx	opposition	7079 Jul 31 17:57	13° \approx 39'01 1°04'53	
morning rise	7073 Feb 02 22:07	0° \approx 08'52	min. Earth dist.	7079 Aug 01 10:35	13° \approx 37'53 29.35476 AU	
retrograde	7073 Apr 30 20:27	2° \approx 00'52	direct	7079 Oct 20 16:58	12° \approx 14'35	
opposition	7073 Jul 17 22:37	0° \approx 39'04 1°13'33	evening set	7080 Jan 18 16:26	14° \approx 09'43	
min. Earth dist.	7073 Jul 18 17:43	0° \approx 37'46 29.37133 AU				
	7073 Aug 11 17:50	30° \approx	conjunction	7080 Feb 03 06:18	14° \approx 44'21 0°59'55	
direct	7073 Oct 06 21:39	29° $\overline{3}$ 14'37	minimum elong	7080 Feb 03 06:18	14° \approx 44'21 0°59'57	
	7073 Nov 29 22:42	0° \approx	max. Earth dist.	7080 Feb 02 13:32	14° \approx 42'47 31.35367 AU	
evening set	7074 Jan 05 03:10	1° \approx 09'56		7080 Feb 10 05:55	15° \approx	
			morning rise	7080 Feb 18 17:33	15° \approx 18'46	
conjunction	7074 Jan 20 18:57	1° \approx 44'39 1°08'18	retrograde	7080 May 15 17:14	17° \approx 11'03	
minimum elong	7074 Jan 20 18:57	1° \approx 44'39 1°08'21	opposition	7080 Aug 02 05:25	15° \approx 49'06 1°03'06	
max. Earth dist.	7074 Jan 19 22:36	1° \approx 42'46 31.36937 AU	min. Earth dist.	7080 Aug 02 21:48	15° \approx 47'59 29.35350 AU	
morning rise	7074 Feb 05 08:06	2° \approx 19'09		7080 Sep 03 07:24	15° \approx	
retrograde	7074 May 03 07:57	4° \approx 11'10	direct	7080 Oct 22 04:09	14° \approx 24'45	
opposition	7074 Jul 20 09:35	2° \approx 49'19 1°12'21		7080 Dec 08 11:14	15° \approx	
min. Earth dist.	7074 Jul 21 03:46	2° \approx 48'05 29.36834 AU	evening set	7081 Jan 20 02:32	16° \approx 19'53	
direct	7074 Oct 09 09:57	1° \approx 24'50				
evening set	7075 Jan 07 13:36	3° \approx 20'07	conjunction	7081 Feb 04 15:56	16° \approx 54'29 0°58'12	
max. Earth dist.	7075 Jan 22 09:35	3° \approx 53'00 31.36596 AU	minimum elong	7081 Feb 04 15:56	16° \approx 54'30 0°58'15	
			max. Earth dist.	7081 Feb 03 22:33	16° \approx 52'52 31.35239 AU	
conjunction	7075 Jan 23 05:08	3° \approx 54'49 1°07'08	morning rise	7081 Feb 20 03:08	17° \approx 28'55	
minimum elong	7075 Jan 23 05:08	3° \approx 54'49 1°07'12	retrograde	7081 May 18 05:27	19° \approx 21'18	
morning rise	7075 Feb 07 17:50	4° \approx 29'18	opposition	7081 Aug 04 16:55	17° \approx 59'22 1°01'13	
retrograde	7075 May 05 16:15	6° \approx 21'19	min. Earth dist.	7081 Aug 05 08:35	17° \approx 58'18 29.35198 AU	
opposition	7075 Jul 22 20:54	4° \approx 59'25 1°11'03	direct	7081 Oct 24 14:20	16° \approx 35'04	
min. Earth dist.	7075 Jul 23 15:57	4° \approx 58'07 29.36473 AU	evening set	7082 Jan 22 12:37	18° \approx 30'13	

max. Earth dist.	7082 Feb 06 09:44	19° \approx 03'19	31.35042 AU	minimum elong	7088 Feb 20 12:24	2° \times 08'43	0°44'03
				max. Earth dist.	7088 Feb 19 20:54	2° \times 07'16	31.31186 AU
conjunction	7082 Feb 07 01:52	19° \approx 04'50	0°56'24	morning rise	7088 Mar 06 22:09	2° \times 43'08	
minimum elong	7082 Feb 07 01:52	19° \approx 04'50	0°56'26	retrograde	7088 Jun 02 06:08	4° \times 36'06	
morning rise	7082 Feb 22 12:37	19° \approx 39'14		opposition	7088 Aug 20 03:41	3° \times 13'55	0°45'48
retrograde	7082 May 20 16:07	21° \approx 31'44		min. Earth dist.	7088 Aug 20 17:49	3° \times 12'58	29.30751 AU
opposition	7082 Aug 07 04:33	20° \approx 09'48	0°59'15	direct	7088 Nov 08 23:57	1° \times 49'46	
min. Earth dist.	7082 Aug 07 20:47	20° \approx 08'42	29.34948 AU	evening set	7089 Feb 06 10:36	3° \times 44'41	
direct	7082 Oct 27 03:05	18° \approx 45'35					
evening set	7083 Jan 24 22:53	20° \approx 40'44		conjunction	7089 Feb 21 21:59	4° \times 19'14	0°41'43
				minimum elong	7089 Feb 21 21:59	4° \times 19'14	0°41'45
conjunction	7083 Feb 09 11:40	21° \approx 15'20	0°54'31	max. Earth dist.	7089 Feb 21 08:15	4° \times 17'57	31.30264 AU
minimum elong	7083 Feb 09 11:40	21° \approx 15'20	0°54'34	morning rise	7089 Mar 09 07:26	4° \times 53'38	
max. Earth dist.	7083 Feb 08 18:54	21° \approx 13'46	31.34746 AU	retrograde	7089 Jun 04 15:27	6° \times 46'42	
morning rise	7083 Feb 24 22:20	21° \approx 49'44		opposition	7089 Aug 22 15:40	5° \times 24'26	0°43'19
retrograde	7083 May 23 04:38	23° \approx 42'19		min. Earth dist.	7089 Aug 23 05:13	5° \times 23'31	29.29844 AU
opposition	7083 Aug 09 16:17	22° \approx 20'24	0°57'12	direct	7089 Nov 11 11:12	4° \times 00'17	
min. Earth dist.	7083 Aug 10 07:21	22° \approx 19'23	29.34586 AU	evening set	7090 Feb 08 20:27	5° \times 55'08	
direct	7083 Oct 29 14:57	20° \approx 56'13					
evening set	7084 Jan 27 08:53	22° \approx 51'22		conjunction	7090 Feb 24 07:24	6° \times 29'41	0°39'22
				minimum elong	7090 Feb 24 07:24	6° \times 29'41	0°39'23
conjunction	7084 Feb 11 21:28	23° \approx 25'58	0°52'33	max. Earth dist.	7090 Feb 23 17:26	6° \times 28'22	31.29400 AU
minimum elong	7084 Feb 11 21:28	23° \approx 25'58	0°52'35	morning rise	7090 Mar 11 16:51	7° \times 04'05	
max. Earth dist.	7084 Feb 11 05:25	23° \approx 24'28	31.34307 AU	retrograde	7090 Jun 07 03:25	8° \times 57'14	
morning rise	7084 Feb 27 07:49	24° \approx 00'22		opposition	7090 Aug 25 03:36	7° \times 34'55	0°40'47
retrograde	7084 May 24 14:00	25° \approx 53'03		min. Earth dist.	7090 Aug 25 15:50	7° \times 34'05	29.29028 AU
opposition	7084 Aug 11 04:13	24° \approx 31'07	0°55'04	direct	7090 Nov 13 21:41	6° \times 10'47	
min. Earth dist.	7084 Aug 11 20:11	24° \approx 30'02	29.34074 AU	evening set	7091 Feb 11 06:08	8° \times 05'36	
direct	7084 Oct 31 02:28	23° \approx 06'59					
evening set	7085 Jan 28 19:02	25° \approx 02'06		conjunction	7091 Feb 26 17:01	8° \times 40'08	0°36'57
				minimum elong	7091 Feb 26 17:01	8° \times 40'08	0°36'59
conjunction	7085 Feb 13 07:19	25° \approx 36'41	0°50'31	max. Earth dist.	7091 Feb 26 04:50	8° \times 39'00	31.28629 AU
minimum elong	7085 Feb 13 07:19	25° \approx 36'41	0°50'35	morning rise	7091 Mar 14 02:10	9° \times 14'33	
max. Earth dist.	7085 Feb 12 15:16	25° \approx 35'11	31.33725 AU	retrograde	7091 Jun 09 14:19	11° \times 07'49	
morning rise	7085 Feb 28 17:31	26° \approx 11'05		opposition	7091 Aug 27 15:47	9° \times 45'27	0°38'10
retrograde	7085 May 27 00:28	28° \approx 03'50		min. Earth dist.	7091 Aug 28 03:54	9° \times 44'38	29.28297 AU
opposition	7085 Aug 13 15:52	26° \approx 41'52	0°52'51	direct	7091 Nov 16 09:41	8° \times 21'21	
min. Earth dist.	7085 Aug 14 06:44	26° \approx 40'52	29.33405 AU	evening set	7092 Feb 13 15:46	10° \times 16'09	
direct	7085 Nov 02 15:18	25° \approx 17'45					
evening set	7086 Jan 31 05:11	27° \approx 12'51		conjunction	7092 Feb 29 02:20	10° \times 50'41	0°34'29
				minimum elong	7092 Feb 29 02:20	10° \times 50'41	0°34'30
conjunction	7086 Feb 15 17:11	27° \approx 47'25	0°48'25	max. Earth dist.	7092 Feb 28 14:15	10° \times 49'33	31.27948 AU
minimum elong	7086 Feb 15 17:11	27° \approx 47'25	0°48'27	morning rise	7092 Mar 15 11:31	11° \times 25'06	
max. Earth dist.	7086 Feb 15 01:04	27° \approx 45'55	31.32980 AU	retrograde	7092 Jun 11 02:42	13° \times 18'29	
morning rise	7086 Mar 03 03:12	28° \approx 21'50		opposition	7092 Aug 29 03:50	11° \times 56'05	0°35'30
	7086 Apr 29 20:54	0° \times		min. Earth dist.	7092 Aug 29 14:13	11° \times 55'22	29.27637 AU
retrograde	7086 May 29 10:51	0° \times 14'40		direct	7092 Nov 17 20:43	10° \times 32'01	
	7086 Jun 28 16:20	30° \times		evening set	7093 Feb 15 01:29	12° \times 26'49	
opposition	7086 Aug 16 03:51	28° \approx 52'38	0°50'35				
min. Earth dist.	7086 Aug 16 19:20	28° \approx 51'35	29.32597 AU	conjunction	7093 Mar 02 11:55	13° \times 01'21	0°31'58
direct	7086 Nov 05 01:43	27° \approx 28'31		minimum elong	7093 Mar 02 11:55	13° \times 01'21	0°32'00
evening set	7087 Feb 02 15:03	29° \approx 23'33		max. Earth dist.	7093 Mar 02 00:55	13° \times 00'19	31.27299 AU
max. Earth dist.	7087 Feb 17 11:43	29° \approx 56'42	31.32120 AU	morning rise	7093 Mar 17 20:55	13° \times 35'46	
				retrograde	7093 Jun 13 13:07	15° \times 29'16	
conjunction	7087 Feb 18 02:52	29° \approx 58'07	0°46'15	opposition	7093 Aug 31 15:58	14° \times 06'51	0°32'47
minimum elong	7087 Feb 18 02:52	29° \approx 58'07	0°46'18	min. Earth dist.	7093 Sep 01 02:51	14° \times 06'07	29.26995 AU
	7087 Feb 18 23:00	0° \times		direct	7093 Nov 20 08:11	12° \times 42'51	
morning rise	7087 Mar 05 12:38	0° \times 32'31		evening set	7094 Feb 17 11:17	14° \times 37'37	
retrograde	7087 May 31 19:36	2° \times 25'26					
opposition	7087 Aug 18 15:45	1° \times 03'20	0°48'13	conjunction	7094 Mar 04 21:31	15° \times 12'09	0°29'24
min. Earth dist.	7087 Aug 19 06:12	1° \times 02'21	29.31682 AU	minimum elong	7094 Mar 04 21:31	15° \times 12'09	0°29'25
	7087 Oct 01 15:24	30° \times		max. Earth dist.	7094 Mar 04 11:09	15° \times 11'11	31.26658 AU
direct	7087 Nov 07 14:35	29° \approx 39'12		morning rise	7094 Mar 20 06:26	15° \times 46'35	
	7087 Dec 13 11:40	0° \times		retrograde	7094 Jun 16 00:53	17° \times 40'13	
evening set	7088 Feb 05 00:58	1° \times 34'10		opposition	7094 Sep 03 04:13	16° \times 17'46	0°30'01
				min. Earth dist.	7094 Sep 03 13:35	16° \times 17'08	29.26326 AU
conjunction	7088 Feb 20 12:24	2° \times 08'43	0°44'01	direct	7094 Nov 22 21:19	14° \times 53'49	

evening set	7095 Feb 19 21:03	16° \mathring{K} 48'34		7101 Mar 07 05:13	0° \mathring{Y}	
conjunction	7095 Mar 07 07:01	17° \mathring{K} 23'06	0°26'47	conjunction	7101 Mar 20 17:08	0° \mathring{Y} 30'23 0°10'28
minimum elong	7095 Mar 07 07:01	17° \mathring{K} 23'06	0°26'49	minimum elong	7101 Mar 20 17:08	0° \mathring{Y} 30'23 0°10'28
max. Earth dist.	7095 Mar 06 20:53	17° \mathring{K} 22'09	31.25957 AU	behind sun begin	7101 Mar 20 12:04	0° \mathring{Y} 29'55
morning rise	7095 Mar 22 15:52	17° \mathring{K} 57'33		behind sun end	7101 Mar 20 22:11	0° \mathring{Y} 30'50
retrograde	7095 Jun 18 12:12	19° \mathring{K} 51'19		max. Earth dist.	7101 Mar 20 10:12	0° \mathring{Y} 29'45 31.19622 AU
opposition	7095 Sep 05 16:44	18° \mathring{K} 28'50	0°27'12	morning rise	7101 Apr 05 01:47	1° \mathring{Y} 04'54
min. Earth dist.	7095 Sep 06 02:24	18° \mathring{K} 28'10	29.25595 AU	retrograde	7101 Jul 02 06:32	2° \mathring{Y} 59'22
direct	7095 Nov 25 08:08	17° \mathring{K} 04'56		opposition	7101 Sep 19 19:49	1° \mathring{Y} 36'26 0°09'39
evening set	7096 Feb 22 06:52	18° \mathring{K} 59'39		min. Earth dist.	7101 Sep 20 01:14	1° \mathring{Y} 36'04 29.19019 AU
				direct	7101 Dec 09 03:56	0° \mathring{Y} 12'35
conjunction	7096 Mar 08 16:46	19° \mathring{K} 34'11	0°24'08			
minimum elong	7096 Mar 08 16:46	19° \mathring{K} 34'11	0°24'09			
max. Earth dist.	7096 Mar 08 07:47	19° \mathring{K} 33'21	31.25181 AU			
morning rise	7096 Mar 24 01:27	20° \mathring{K} 08'39				
retrograde	7096 Jun 19 21:46	22° \mathring{K} 02'32				
opposition	7096 Sep 07 05:05	20° \mathring{K} 40'01	0°24'21			
min. Earth dist.	7096 Sep 07 13:45	20° \mathring{K} 39'26	29.24756 AU			
direct	7096 Nov 26 20:41	19° \mathring{K} 16'09				
evening set	7097 Feb 23 16:49	21° \mathring{K} 10'51				
conjunction	7097 Mar 11 02:25	21° \mathring{K} 45'23	0°21'27			
minimum elong	7097 Mar 11 02:25	21° \mathring{K} 45'23	0°21'28			
max. Earth dist.	7097 Mar 10 16:49	21° \mathring{K} 44'29	31.24282 AU			
morning rise	7097 Mar 26 11:12	22° \mathring{K} 19'51				
retrograde	7097 Jun 22 09:05	24° \mathring{K} 13'52				
opposition	7097 Sep 09 17:38	22° \mathring{K} 51'18	0°21'27			
min. Earth dist.	7097 Sep 10 02:06	22° \mathring{K} 50'43	29.23796 AU			
direct	7097 Nov 29 06:40	21° \mathring{K} 27'27				
evening set	7098 Feb 26 02:38	23° \mathring{K} 22'06				
conjunction	7098 Mar 13 12:14	23° \mathring{K} 56'39	0°18'44			
minimum elong	7098 Mar 13 12:14	23° \mathring{K} 56'39	0°18'44			
max. Earth dist.	7098 Mar 13 04:06	23° \mathring{K} 55'53	31.23249 AU			
morning rise	7098 Mar 28 20:46	24° \mathring{K} 31'08				
retrograde	7098 Jun 24 18:56	26° \mathring{K} 25'16				
opposition	7098 Sep 12 06:13	25° \mathring{K} 02'37	0°18'32			
min. Earth dist.	7098 Sep 12 14:25	25° \mathring{K} 02'04	29.22688 AU			
direct	7098 Dec 01 18:29	23° \mathring{K} 38'47				
evening set	7099 Feb 28 12:36	25° \mathring{K} 33'23				
conjunction	7099 Mar 15 21:54	26° \mathring{K} 07'55	0°16'00			
minimum elong	7099 Mar 15 21:54	26° \mathring{K} 07'55	0°16'00			
behind sun begin	7099 Mar 15 20:50	26° \mathring{K} 07'49				
behind sun end	7099 Mar 15 22:58	26° \mathring{K} 08'01				
max. Earth dist.	7099 Mar 15 13:16	26° \mathring{K} 07'07	31.22097 AU			
morning rise	7099 Mar 31 06:35	26° \mathring{K} 42'25				
retrograde	7099 Jun 27 07:17	28° \mathring{K} 36'40				
opposition	7099 Sep 14 18:48	27° \mathring{K} 13'56	0°15'36			
min. Earth dist.	7099 Sep 15 01:58	27° \mathring{K} 13'26	29.21492 AU			
direct	7099 Dec 04 05:07	25° \mathring{K} 50'05				
evening set	7100 Mar 02 22:12	27° \mathring{K} 44'38				
conjunction	7100 Mar 18 07:33	28° \mathring{K} 19'10	0°13'14			
minimum elong	7100 Mar 18 07:33	28° \mathring{K} 19'10	0°13'13			
behind sun begin	7100 Mar 18 03:42	28° \mathring{K} 18'49				
behind sun end	7100 Mar 18 11:23	28° \mathring{K} 19'31				
max. Earth dist.	7100 Mar 18 00:28	28° \mathring{K} 18'31	31.20863 AU			
morning rise	7100 Apr 02 16:05	28° \mathring{K} 53'41				
	7100 May 06 03:43	0° \mathring{Y}				
retrograde	7100 Jun 29 18:08	0° \mathring{Y} 48'02				
	7100 Aug 26 05:56	30° \mathring{K}				
opposition	7100 Sep 17 07:28	29° \mathring{K} 25'12	0°12'38			
min. Earth dist.	7100 Sep 17 14:41	29° \mathring{K} 24'42	29.20239 AU			
direct	7100 Dec 06 16:58	28° \mathring{K} 01'21				
evening set	7101 Mar 05 08:00	29° \mathring{K} 55'50				