

opposition	10600 Feb 17 04:44	2° \mathbb{M} 52'53	-1°20'09	minimum elong	10605 Oct 26 16:23	12° \mathbb{M} 40'51	1°06'07
min. Earth dist.	10600 Feb 16 21:40	2° \mathbb{M} 54'15	8.66351 AU	max. Earth dist.	10605 Oct 26 16:44	12° \mathbb{M} 40'58	10.40848 AU
	10600 Apr 03 09:20	30° \mathbb{R} 2		morning rise	10605 Nov 13 11:55	14° \mathbb{M} 53'22	
direct	10600 Apr 26 12:34	29° \mathbb{Q} 32'29			10605 Nov 14 09:40	15° \mathbb{M}	
	10600 May 19 09:26	0° \mathbb{M}		retrograde	10606 Feb 26 02:39	22° \mathbb{M} 43'25	
evening set	10600 Aug 04 23:00	6° \mathbb{M} 52'19		opposition	10606 May 05 08:16	19° \mathbb{M} 17'06	1°34'14
				min. Earth dist.	10606 May 05 08:23	19° \mathbb{M} 17'05	8.39057 AU
conjunction	10600 Aug 22 04:03	8° \mathbb{M} 57'51	-0°54'41	direct	10606 Jul 11 23:00	15° \mathbb{M} 52'01	
minimum elong	10600 Aug 22 04:05	8° \mathbb{M} 57'52	0°54'56	evening set	10606 Oct 22 18:11	23° \mathbb{M} 35'45	
max. Earth dist.	10600 Aug 22 12:28	9° \mathbb{M} 00'26	10.64203 AU				
morning rise	10600 Sep 08 12:32	11° \mathbb{M} 04'25		conjunction	10606 Nov 09 12:53	25° \mathbb{M} 48'25	1°25'12
retrograde	10600 Dec 22 07:22	18° \mathbb{M} 41'57		minimum elong	10606 Nov 09 12:51	25° \mathbb{M} 48'24	1°25'38
opposition	10601 Mar 02 01:11	15° \mathbb{M} 17'29	-0°53'21	max. Earth dist.	10606 Nov 09 11:45	25° \mathbb{M} 48'03	10.37354 AU
min. Earth dist.	10601 Mar 01 18:34	15° \mathbb{M} 18'46	8.61959 AU	morning rise	10606 Nov 27 08:32	28° \mathbb{M} 01'27	
direct	10601 May 09 03:33	11° \mathbb{M} 56'33			10606 Dec 13 22:12	0° \mathbb{Z}	
evening set	10601 Aug 17 17:23	19° \mathbb{M} 19'08		retrograde	10607 Mar 11 16:18	5° \mathbb{Z} 52'30	
				opposition	10607 May 18 14:50	2° \mathbb{Z} 26'13	1°55'49
conjunction	10601 Sep 04 01:42	21° \mathbb{M} 26'05	-0°31'40	min. Earth dist.	10607 May 18 16:11	2° \mathbb{Z} 25'57	8.36016 AU
minimum elong	10601 Sep 04 01:43	21° \mathbb{M} 26'06	0°31'48		10607 Jun 21 10:19	30° \mathbb{R} \mathbb{M}	
max. Earth dist.	10601 Sep 04 09:27	21° \mathbb{M} 28'28	10.59574 AU	direct	10607 Jul 25 07:18	29° \mathbb{M} 00'19	
morning rise	10601 Sep 21 13:19	23° \mathbb{M} 34'04			10607 Aug 27 21:14	0° \mathbb{Z}	
	10601 Nov 26 17:40	0° \mathbb{Q}		evening set	10607 Nov 05 17:04	6° \mathbb{Z} 48'10	
retrograde	10602 Jan 04 12:23	1° \mathbb{Q} 14'37					
	10602 Feb 12 17:08	30° \mathbb{R} \mathbb{M}		conjunction	10607 Nov 23 12:10	9° \mathbb{Z} 01'22	1°40'17
opposition	10602 Mar 14 23:08	27° \mathbb{M} 49'35	-0°23'44	minimum elong	10607 Nov 23 12:08	9° \mathbb{Z} 01'21	1°40'46
min. Earth dist.	10602 Mar 14 17:11	27° \mathbb{M} 50'45	8.57123 AU	max. Earth dist.	10607 Nov 23 08:58	9° \mathbb{Z} 00'21	10.34733 AU
direct	10602 May 21 19:46	24° \mathbb{M} 27'59		morning rise	10607 Dec 11 07:25	11° \mathbb{Z} 14'40	
	10602 Aug 14 11:37	0° \mathbb{Q}		retrograde	10608 Mar 24 07:55	19° \mathbb{Z} 05'52	
evening set	10602 Aug 30 16:47	1° \mathbb{Q} 54'03		opposition	10608 May 30 22:55	15° \mathbb{Z} 39'49	2°11'24
				min. Earth dist.	10608 May 31 01:59	15° \mathbb{Z} 39'12	8.33910 AU
conjunction	10602 Sep 17 04:02	4° \mathbb{Q} 02'24	-0°06'57	direct	10608 Aug 06 17:21	12° \mathbb{Z} 13'11	
minimum elong	10602 Sep 17 04:02	4° \mathbb{Q} 02'24	0°06'57	evening set	10608 Nov 18 18:15	20° \mathbb{Z} 04'32	
behind sun begin	10602 Sep 16 21:22	4° \mathbb{Q} 00'22					
behind sun end	10602 Sep 17 10:41	4° \mathbb{Q} 04'26		conjunction	10608 Dec 06 13:10	22° \mathbb{Z} 17'58	1°50'05
max. Earth dist.	10602 Sep 17 10:02	4° \mathbb{Q} 04'14	10.54644 AU	minimum elong	10608 Dec 06 13:09	22° \mathbb{Z} 17'58	1°50'37
morning rise	10602 Oct 04 18:31	6° \mathbb{Q} 11'46		max. Earth dist.	10608 Dec 06 07:32	22° \mathbb{Z} 16'12	10.33112 AU
asc. node	10602 Dec 29 20:33	13° \mathbb{Q} 36'52		morning rise	10608 Dec 24 07:33	24° \mathbb{Z} 31'17	
retrograde	10603 Jan 17 19:03	13° \mathbb{Q} 55'15			10609 Feb 13 05:09	0° \mathbb{Z}	
opposition	10603 Mar 27 22:50	10° \mathbb{Q} 29'42	0°07'22	retrograde	10609 Apr 06 21:33	2° \mathbb{Z} 21'44	
min. Earth dist.	10603 Mar 27 18:26	10° \mathbb{Q} 30'34	8.52150 AU		10609 May 30 21:12	30° \mathbb{R} \mathbb{Z}	
direct	10603 Jun 03 15:36	7° \mathbb{Q} 07'19		opposition	10609 Jun 13 08:05	28° \mathbb{Z} 56'06	2°20'02
evening set	10603 Sep 12 21:34	14° \mathbb{Q} 37'25		min. Earth dist.	10609 Jun 13 13:07	28° \mathbb{Z} 55'05	8.32846 AU
				direct	10609 Aug 20 07:45	25° \mathbb{Z} 28'53	
conjunction	10603 Sep 30 11:24	16° \mathbb{Q} 47'07	0°18'28		10609 Nov 03 18:21	0° \mathbb{Z}	
minimum elong	10603 Sep 30 11:23	16° \mathbb{Q} 47'07	0°18'35	evening set	10609 Dec 02 20:12	3° \mathbb{Z} 22'50	
max. Earth dist.	10603 Sep 30 15:12	16° \mathbb{Q} 48'17	10.49713 AU				
morning rise	10603 Oct 18 04:20	18° \mathbb{Q} 57'45		conjunction	10609 Dec 20 14:34	5° \mathbb{Z} 36'15	1°54'03
retrograde	10604 Jan 31 03:59	26° \mathbb{Q} 43'52		minimum elong	10609 Dec 20 14:34	5° \mathbb{Z} 36'15	1°54'35
opposition	10604 Apr 09 00:12	23° \mathbb{Q} 17'56	0°38'28	max. Earth dist.	10609 Dec 20 06:44	5° \mathbb{Z} 33'47	10.32584 AU
min. Earth dist.	10604 Apr 08 21:41	23° \mathbb{Q} 18'26	8.47328 AU	morning rise	10610 Jan 07 07:47	7° \mathbb{Z} 49'21	
direct	10604 Jun 15 14:26	19° \mathbb{Q} 54'38		retrograde	10610 Apr 20 09:41	15° \mathbb{Z} 38'14	
evening set	10604 Sep 25 07:39	27° \mathbb{Q} 29'13		opposition	10610 Jun 26 18:06	12° \mathbb{Z} 13'07	2°21'11
				min. Earth dist.	10610 Jun 27 00:23	12° \mathbb{Z} 11'52	8.32888 AU
conjunction	10604 Oct 12 23:42	29° \mathbb{Q} 40'07	0°43'06	direct	10610 Sep 03 00:21	8° \mathbb{Z} 45'34	
minimum elong	10604 Oct 12 23:40	29° \mathbb{Q} 40'07	0°43'21	evening set	10610 Dec 16 21:28	16° \mathbb{Z} 40'57	
max. Earth dist.	10604 Oct 13 01:26	29° \mathbb{Q} 40'40	10.45040 AU				
	10604 Oct 15 15:38	0° \mathbb{M}		conjunction	10611 Jan 03 15:04	18° \mathbb{Z} 54'08	1°51'55
morning rise	10604 Oct 30 18:21	1° \mathbb{M} 51'49		minimum elong	10611 Jan 03 15:05	18° \mathbb{Z} 54'08	1°52'25
retrograde	10605 Feb 12 14:47	9° \mathbb{M} 40'10		max. Earth dist.	10611 Jan 03 06:10	18° \mathbb{Z} 51'20	10.33187 AU
opposition	10605 Apr 22 03:24	6° \mathbb{M} 13'59	1°07'57	morning rise	10611 Jan 21 06:51	21° \mathbb{Z} 06'48	
min. Earth dist.	10605 Apr 22 02:30	6° \mathbb{M} 14'09	8.42892 AU	retrograde	10611 May 03 20:58	28° \mathbb{Z} 53'24	
direct	10605 Jun 28 16:54	2° \mathbb{M} 49'46		opposition	10611 Jul 10 04:24	25° \mathbb{Z} 28'54	2°14'47
evening set	10605 Oct 08 22:45	10° \mathbb{M} 28'58		min. Earth dist.	10611 Jul 10 11:04	25° \mathbb{Z} 27'34	8.34030 AU
				direct	10611 Sep 16 17:09	22° \mathbb{Z} 01'14	
conjunction	10605 Oct 26 16:25	12° \mathbb{M} 40'52	1°05'46	evening set	10611 Dec 30 21:09	29° \mathbb{Z} 56'53	

	10611 Dec 31 07:16	0°♊		direct	10617 Dec 05 02:39	9°♑46'16	
				evening set	10618 Mar 19 10:40	17°♑24'38	
conjunction	10612 Jan 17 13:44	2°♊09'38	1°43'50				
minimum elong	10612 Jan 17 13:46	2°♊09'39	1°44'18	conjunction	10618 Apr 05 14:30	19°♑30'56	-0°23'36
max. Earth dist.	10612 Jan 17 04:37	2°♊06'46	10.34882 AU	minimum elong	10618 Apr 05 14:29	19°♑30'56	0°23'44
morning rise	10612 Feb 04 03:47	4°♊21'39		max. Earth dist.	10618 Apr 05 11:08	19°♑29'54	10.59811 AU
retrograde	10612 May 16 07:35	12°♊05'20		morning rise	10618 Apr 22 15:29	21°♑36'26	
opposition	10612 Jul 22 14:30	8°♊41'32	2°01'16	retrograde	10618 Aug 01 15:22	29°♑01'25	
min. Earth dist.	10612 Jul 22 21:07	8°♊40'13	8.36213 AU	opposition	10618 Oct 09 05:56	25°♑41'05	-0°43'45
direct	10612 Sep 29 09:35	5°♊14'01		min. Earth dist.	10618 Oct 09 07:47	25°♑40'44	8.62135 AU
evening set	10613 Jan 12 18:02	13°♊08'48		direct	10618 Dec 18 06:37	22°♑17'35	
	10613 Jan 27 14:50	15°♊		evening set	10619 Apr 01 05:02	29°♑51'47	
					10619 Apr 02 08:19	0°♋	
conjunction	10613 Jan 30 09:16	15°♊20'54	1°30'18				
minimum elong	10613 Jan 30 09:19	15°♊20'55	1°30'43	conjunction	10619 Apr 18 06:11	1°♋56'48	-0°47'11
max. Earth dist.	10613 Jan 30 00:34	15°♊18'10	10.37581 AU	minimum elong	10619 Apr 18 06:10	1°♋56'47	0°47'26
morning rise	10613 Feb 16 21:23	17°♊32'06		max. Earth dist.	10619 Apr 18 04:23	1°♋56'14	10.64334 AU
retrograde	10613 May 29 15:21	25°♊12'27		morning rise	10619 May 05 04:54	4°♋01'09	
opposition	10613 Aug 05 00:19	21°♊49'25	1°41'28	retrograde	10619 Aug 14 08:10	11°♋24'26	
min. Earth dist.	10613 Aug 05 06:49	21°♊48'08	8.39329 AU	opposition	10619 Oct 22 06:49	8°♋04'16	-1°11'31
direct	10613 Oct 13 01:54	18°♊22'15		min. Earth dist.	10619 Oct 22 07:50	8°♋04'04	8.66411 AU
evening set	10614 Jan 26 11:06	26°♊15'06		direct	10619 Dec 31 07:49	4°♋41'32	
				evening set	10620 Apr 12 19:22	12°♋11'50	
conjunction	10614 Feb 13 00:37	28°♊26'19	1°12'10				
minimum elong	10614 Feb 13 00:39	28°♊26'19	1°12'30	conjunction	10620 Apr 29 17:53	14°♋15'40	-1°08'24
max. Earth dist.	10614 Feb 12 16:20	28°♊23'43	10.41142 AU	minimum elong	10620 Apr 29 17:51	14°♋15'39	1°08'45
	10614 Feb 25 12:17	0°♋		max. Earth dist.	10620 Apr 29 16:53	14°♋15'21	10.68241 AU
morning rise	10614 Mar 02 10:43	0°♋36'34			10620 May 05 18:30	15°♋	
retrograde	10614 Jun 11 20:40	8°♋13'26		morning rise	10620 May 16 14:44	16°♋19'01	
opposition	10614 Aug 18 09:15	4°♋51'08	1°16'36	retrograde	10620 Aug 25 23:40	23°♋41'24	
min. Earth dist.	10614 Aug 18 15:57	4°♋49'49	8.43220 AU	opposition	10620 Nov 03 06:08	20°♋21'16	-1°35'44
direct	10614 Oct 26 16:53	1°♋24'29		min. Earth dist.	10620 Nov 03 06:26	20°♋21'12	8.69952 AU
evening set	10615 Feb 09 00:07	9°♋14'31		direct	10621 Jan 12 07:21	16°♋59'16	
				evening set	10621 Apr 25 06:19	24°♋26'09	
conjunction	10615 Feb 26 11:31	11°♋24'41	0°50'29				
minimum elong	10615 Feb 26 11:33	11°♋24'41	0°50'43	conjunction	10621 May 12 02:41	26°♋29'01	-1°26'20
max. Earth dist.	10615 Feb 26 03:18	11°♋22'07	10.45375 AU	minimum elong	10621 May 12 02:38	26°♋29'00	1°26'46
morning rise	10615 Mar 15 19:33	13°♋33'51		max. Earth dist.	10621 May 12 02:38	26°♋29'00	10.71315 AU
retrograde	10615 Jun 24 23:23	21°♋07'12		morning rise	10621 May 28 22:09	28°♋31'35	
opposition	10615 Aug 31 16:49	17°♋45'35	0°48'04		10621 Jun 10 11:46	0°♌	
min. Earth dist.	10615 Aug 31 23:14	17°♋44'20	8.47683 AU	retrograde	10621 Sep 07 15:02	5°♌53'51	
direct	10615 Nov 09 05:48	14°♋19'37		opposition	10621 Nov 16 03:57	2°♌33'35	-1°55'26
evening set	10616 Feb 22 08:31	22°♋06'10		min. Earth dist.	10621 Nov 16 02:44	2°♌33'48	8.72601 AU
					10621 Dec 24 17:01	30°♌♋	
conjunction	10616 Mar 10 17:31	24°♋15'07	0°26'28	direct	10622 Jan 25 03:19	29°♌12'15	
minimum elong	10616 Mar 10 17:32	24°♋15'07	0°26'35		10622 Feb 25 01:21	0°♌	
max. Earth dist.	10616 Mar 10 09:59	24°♋12'46	10.50061 AU	evening set	10622 May 07 14:36	6°♌36'12	
morning rise	10616 Mar 27 23:20	26°♋23'06					
	10616 Apr 28 19:13	0°♑		conjunction	10622 May 24 09:32	8°♌38'21	-1°40'18
retrograde	10616 Jul 06 21:52	3°♑53'12		minimum elong	10622 May 24 09:30	8°♌38'21	1°40'48
opposition	10616 Sep 12 23:00	0°♑32'10	0°17'28	max. Earth dist.	10622 May 24 11:37	8°♌39'00	10.73465 AU
min. Earth dist.	10616 Sep 13 04:16	0°♑31'09	8.52492 AU	morning rise	10622 Jun 10 04:04	10°♌40'26	
	10616 Sep 19 21:21	30°♌♋		retrograde	10622 Sep 20 05:42	18°♌03'12	
direct	10616 Nov 21 17:52	27°♋06'58		opposition	10622 Nov 29 00:46	14°♌42'38	-2°09'54
	10617 Jan 20 22:03	0°♑		min. Earth dist.	10622 Nov 28 21:35	14°♌43'14	8.74300 AU
evening set	10617 Mar 06 11:54	4°♑49'33		direct	10623 Feb 06 21:15	11°♌21'49	
				evening set	10623 May 19 21:01	18°♌43'21	
conjunction	10617 Mar 23 18:20	6°♑57'11	0°01'23				
minimum elong	10617 Mar 23 18:21	6°♑57'11	0°01'23	conjunction	10623 Jun 05 15:05	20°♌45'04	-1°49'45
behind sun begin	10617 Mar 23 11:14	6°♑55'00		minimum elong	10623 Jun 05 15:04	20°♌45'04	1°50'17
behind sun end	10617 Mar 24 01:28	6°♑59'22		max. Earth dist.	10623 Jun 05 19:26	20°♌46'24	10.74660 AU
max. Earth dist.	10617 Mar 23 12:33	6°♑55'25	10.54959 AU	morning rise	10623 Jun 22 09:18	22°♌46'53	
morning rise	10617 Apr 09 21:47	9°♑03'56			10623 Sep 18 08:36	0°♍	
desc. node	10617 Apr 13 03:21	9°♑27'22		retrograde	10623 Oct 02 22:19	0°♍10'42	
retrograde	10617 Jul 19 19:08	16°♑31'14			10623 Oct 17 13:09	30°♌♌	
opposition	10617 Sep 26 03:27	13°♑10'37	-0°13'39	opposition	10623 Dec 11 20:48	26°♌49'41	-2°18'33
min. Earth dist.	10617 Sep 26 06:45	13°♑09'58	8.57399 AU	min. Earth dist.	10623 Dec 11 16:02	26°♌50'35	8.75033 AU

direct	10624 Feb 19 13:15	23° Π 29'14	retrograde	10629 Dec 16 22:30	13° Π 30'06	
	10624 May 24 04:46	0° \mathfrak{D}	opposition	10630 Feb 24 17:53	10° Π 05'10	-1°05'35
evening set	10624 May 31 02:23	0° \mathfrak{D} 48'51	min. Earth dist.	10630 Feb 24 10:52	10° Π 06'32	8.61096 AU
			direct	10630 May 03 21:46	6° Π 43'46	
conjunction	10624 Jun 16 20:14	2° \mathfrak{D} 50'26	-1°54'19	evening set	10630 Aug 12 11:02	14° Π 06'15
minimum elong	10624 Jun 16 20:14	2° \mathfrak{D} 50'26	1°54'52			
max. Earth dist.	10624 Jun 17 01:55	2° \mathfrak{D} 52'10	10.74903 AU	conjunction	10630 Aug 29 17:51	16° Π 12'54
morning rise	10624 Jul 03 15:02	4° \mathfrak{D} 52'19		minimum elong	10630 Aug 29 17:53	16° Π 12'55
retrograde	10624 Oct 14 14:47	12° \mathfrak{D} 17'36		max. Earth dist.	10630 Aug 30 01:27	16° Π 15'14
opposition	10624 Dec 23 16:16	8° \mathfrak{D} 56'01	-2°21'03	morning rise	10630 Sep 16 04:20	18° Π 20'37
min. Earth dist.	10624 Dec 23 10:52	8° \mathfrak{D} 57'02	8.74811 AU	retrograde	10630 Dec 30 01:42	26° Π 00'58
direct	10625 Mar 03 02:21	5° \mathfrak{D} 35'45		opposition	10631 Mar 09 16:00	22° Π 35'29
evening set	10625 Jun 12 07:20	12° \mathfrak{D} 54'03		min. Earth dist.	10631 Mar 09 09:57	22° Π 36'40
			direct	10631 May 16 14:37	19° Π 13'31	8.56649 AU
conjunction	10625 Jun 29 01:46	14° \mathfrak{D} 55'48	-1°53'49	evening set	10631 Aug 25 08:34	26° Π 39'03
minimum elong	10625 Jun 29 01:46	14° \mathfrak{D} 55'48	1°54'21			
max. Earth dist.	10625 Jun 29 08:01	14° \mathfrak{D} 57'43	10.74212 AU	conjunction	10631 Sep 11 18:36	28° Π 47'06
morning rise	10625 Jul 15 22:00	16° \mathfrak{D} 58'05		minimum elong	10631 Sep 11 18:37	28° Π 47'06
retrograde	10625 Oct 27 06:22	24° \mathfrak{D} 25'13		max. Earth dist.	10631 Sep 12 01:41	28° Π 49'16
opposition	10626 Jan 05 11:19	21° \mathfrak{D} 02'59	-2°17'18		10631 Sep 21 15:23	0° \mathfrak{D}
min. Earth dist.	10626 Jan 05 05:22	21° \mathfrak{D} 04'07	8.73653 AU	morning rise	10631 Sep 29 08:07	0° \mathfrak{D} 56'11
direct	10626 Mar 15 15:52	17° \mathfrak{D} 42'43		retrograde	10632 Jan 12 07:08	8° \mathfrak{D} 39'27
evening set	10626 Jun 24 12:51	25° \mathfrak{D} 00'24		opposition	10632 Mar 21 15:35	5° \mathfrak{D} 13'30
			min. Earth dist.	10632 Mar 21 10:06	5° \mathfrak{D} 14'35	-0°06'16
conjunction	10626 Jul 11 08:43	27° \mathfrak{D} 02'40	-1°48'15	direct	10632 May 28 10:46	1° \mathfrak{D} 50'54
minimum elong	10626 Jul 11 08:45	27° \mathfrak{D} 02'40	1°48'45	asc. node	10632 Jun 04 13:02	1° \mathfrak{D} 53'38
max. Earth dist.	10626 Jul 11 16:10	27° \mathfrak{D} 04'56	10.72612 AU	evening set	10632 Sep 06 11:34	9° \mathfrak{D} 20'09
morning rise	10626 Jul 28 06:57	29° \mathfrak{D} 05'35				
	10626 Aug 04 23:35	0° \mathfrak{D}		conjunction	10632 Sep 24 00:34	11° \mathfrak{D} 29'34
retrograde	10626 Nov 09 01:07	6° \mathfrak{D} 34'57		minimum elong	10632 Sep 24 00:33	11° \mathfrak{D} 29'34
opposition	10627 Jan 18 06:10	3° \mathfrak{D} 12'01	-2°07'25	behind sun begin	10632 Sep 23 18:01	11° \mathfrak{D} 27'34
min. Earth dist.	10627 Jan 17 23:16	3° \mathfrak{D} 13'20	8.71603 AU	behind sun end	10632 Sep 24 07:05	11° \mathfrak{D} 31'34
	10627 Mar 15 11:57	30° \mathfrak{R} \mathfrak{D}		max. Earth dist.	10632 Sep 24 07:03	11° \mathfrak{D} 31'33
direct	10627 Mar 28 06:00	29° \mathfrak{D} 51'40		morning rise	10632 Oct 11 16:34	13° \mathfrak{D} 39'55
	10627 Apr 09 20:40	0° \mathfrak{D}		retrograde	10633 Jan 24 16:23	21° \mathfrak{D} 25'53
evening set	10627 Jul 06 19:50	7° \mathfrak{D} 09'24		opposition	10633 Apr 03 16:42	17° \mathfrak{D} 59'37
			min. Earth dist.	10633 Apr 03 11:52	18° \mathfrak{D} 00'35	0°25'05
conjunction	10627 Jul 23 17:55	9° \mathfrak{D} 12'27	-1°37'48	direct	10633 Apr 03 11:52	18° \mathfrak{D} 00'35
minimum elong	10627 Jul 23 17:57	9° \mathfrak{D} 12'27	1°38'15	evening set	10633 Jun 10 08:29	14° \mathfrak{D} 36'21
max. Earth dist.	10627 Jul 24 02:52	9° \mathfrak{D} 15'11	10.70169 AU		10633 Sep 19 20:05	22° \mathfrak{D} 09'48
morning rise	10627 Aug 09 18:38	11° \mathfrak{D} 16'18		conjunction	10633 Oct 07 11:26	24° \mathfrak{D} 20'27
	10627 Sep 12 11:35	15° \mathfrak{D}		minimum elong	10633 Oct 07 11:25	24° \mathfrak{D} 20'27
retrograde	10627 Nov 21 22:10	18° \mathfrak{D} 48'10		max. Earth dist.	10633 Oct 07 16:26	24° \mathfrak{D} 22'00
opposition	10628 Jan 31 01:22	15° \mathfrak{D} 24'31	-1°51'44	morning rise	10633 Oct 25 05:20	26° \mathfrak{D} 31'56
min. Earth dist.	10628 Jan 30 17:25	15° \mathfrak{D} 26'03	8.68747 AU		10633 Nov 24 13:59	0° \mathfrak{M}
	10628 Feb 05 09:43	15° \mathfrak{R} \mathfrak{D}		retrograde	10634 Feb 07 04:45	4° \mathfrak{M} 20'14
direct	10628 Apr 08 18:06	12° \mathfrak{D} 03'58		opposition	10634 Apr 16 19:51	0° \mathfrak{M} 53'51
	10628 Jun 07 16:24	15° \mathfrak{D}		min. Earth dist.	10634 Apr 16 16:20	0° \mathfrak{M} 54'33
evening set	10628 Jul 18 05:12	19° \mathfrak{D} 22'29			10634 Apr 28 05:51	30° \mathfrak{R} \mathfrak{D}
			direct	10634 Jun 23 08:25	27° \mathfrak{D} 29'53	
conjunction	10628 Aug 04 05:58	21° \mathfrak{D} 26'34	-1°22'52		10634 Aug 16 17:20	0° \mathfrak{M}
minimum elong	10628 Aug 04 06:00	21° \mathfrak{D} 26'35	1°23'15	evening set	10634 Oct 03 09:45	5° \mathfrak{M} 07'50
max. Earth dist.	10628 Aug 04 15:28	21° \mathfrak{D} 29'28	10.66976 AU			
morning rise	10628 Aug 21 09:44	23° \mathfrak{D} 31'35		conjunction	10634 Oct 21 02:49	7° \mathfrak{M} 19'31
	10628 Oct 28 05:40	0° \mathfrak{M}		minimum elong	10634 Oct 21 02:47	7° \mathfrak{M} 19'30
retrograde	10628 Dec 03 20:57	1° \mathfrak{M} 06'11		max. Earth dist.	10634 Oct 21 05:34	7° \mathfrak{M} 20'22
	10629 Jan 10 00:01	30° \mathfrak{R} \mathfrak{D}		morning rise	10634 Nov 07 22:01	9° \mathfrak{M} 31'53
opposition	10629 Feb 11 21:12	27° \mathfrak{D} 41'50	-1°30'51		10634 Dec 29 06:39	15° \mathfrak{M}
min. Earth dist.	10629 Feb 11 13:16	27° \mathfrak{D} 43'22	8.65193 AU	retrograde	10635 Feb 20 17:18	17° \mathfrak{M} 22'03
direct	10629 Apr 21 07:18	24° \mathfrak{D} 20'56			10635 Apr 16 09:37	15° \mathfrak{R} \mathfrak{M}
	10629 Jul 16 08:31	0° \mathfrak{M}		opposition	10635 Apr 30 00:57	13° \mathfrak{M} 55'42
evening set	10629 Jul 30 18:05	1° \mathfrak{M} 41'02		min. Earth dist.	10635 Apr 29 23:25	13° \mathfrak{M} 56'01
			direct	10635 Jul 06 13:26	10° \mathfrak{M} 31'03	8.39779 AU
conjunction	10629 Aug 16 21:47	3° \mathfrak{M} 46'21	-1°04'01		10635 Sep 19 07:39	15° \mathfrak{M}
minimum elong	10629 Aug 16 21:49	3° \mathfrak{M} 46'22	1°04'18	evening set	10635 Oct 17 04:19	18° \mathfrak{M} 13'30
max. Earth dist.	10629 Aug 17 06:26	3° \mathfrak{M} 49'00	10.63161 AU			
morning rise	10629 Sep 03 04:54	5° \mathfrak{M} 52'40		conjunction	10635 Nov 03 22:32	20° \mathfrak{M} 26'00
						1°17'15

minimum elong	10635 Nov 03 22:30	20° \mathbb{M} 25'59	1°17'38	minimum elong	10642 Jan 24 23:31	10° \approx 05'47	1°36'48
max. Earth dist.	10635 Nov 03 22:38	20° \mathbb{M} 26'02	10.38184 AU	max. Earth dist.	10642 Jan 24 12:57	10° \approx 02'27	10.36840 AU
morning rise	10635 Nov 21 18:21	22° \mathbb{M} 38'59		morning rise	10642 Feb 11 12:30	12° \approx 17'22	
	10636 Feb 10 08:46	0° \mathbb{A}			10642 Mar 06 12:00	15° \approx	
retrograde	10636 Mar 05 07:02	0° \mathbb{A} 30'18		retrograde	10642 May 24 11:01	19° \approx 59'24	
	10636 Mar 29 07:07	30° \mathbb{R} \mathbb{M}		opposition	10642 Jul 30 18:46	16° \approx 36'28	1°50'10
opposition	10636 May 12 07:37	27° \mathbb{M} 04'10	1°47'07	min. Earth dist.	10642 Jul 31 02:57	16° \approx 34'50	8.38263 AU
min. Earth dist.	10636 May 12 08:08	27° \mathbb{M} 04'04	8.36906 AU		10642 Aug 20 20:25	15° \mathbb{R} \approx	
direct	10636 Jul 18 21:40	23° \mathbb{M} 38'50		direct	10642 Oct 07 17:22	13° \approx 09'26	
	10636 Oct 18 07:00	0° \mathbb{A}			10642 Nov 23 16:27	15° \approx	
evening set	10636 Oct 30 02:46	1° \mathbb{A} 25'30		evening set	10643 Jan 21 03:01	21° \approx 03'31	
conjunction	10636 Nov 16 21:38	3° \mathbb{A} 38'34	1°34'18	conjunction	10643 Feb 07 17:13	23° \approx 15'10	1°20'02
minimum elong	10636 Nov 16 21:36	3° \mathbb{A} 38'34	1°34'46	minimum elong	10643 Feb 07 17:15	23° \approx 15'10	1°20'24
max. Earth dist.	10636 Nov 16 19:40	3° \mathbb{A} 37'57	10.35697 AU	max. Earth dist.	10643 Feb 07 06:40	23° \approx 11'51	10.39719 AU
morning rise	10636 Dec 04 17:18	5° \mathbb{A} 51'53		morning rise	10643 Feb 25 04:24	25° \approx 25'54	
retrograde	10637 Mar 18 21:54	13° \mathbb{A} 43'32			10643 Apr 07 06:40	0° \mathbb{H}	
opposition	10637 May 25 15:50	10° \mathbb{A} 17'43	2°05'22	retrograde	10643 Jun 06 17:17	3° \mathbb{H} 04'34	
min. Earth dist.	10637 May 25 17:47	10° \mathbb{A} 17'20	8.34899 AU		10643 Aug 09 10:05	30° \mathbb{R} \approx	
direct	10637 Aug 01 08:40	6° \mathbb{A} 51'46		opposition	10643 Aug 13 04:24	29° \approx 42'12	1°27'15
evening set	10637 Nov 13 03:41	14° \mathbb{A} 42'01		min. Earth dist.	10643 Aug 13 11:55	29° \approx 40'43	8.41495 AU
				direct	10643 Oct 21 10:09	26° \approx 15'29	
conjunction	10637 Nov 30 22:42	16° \mathbb{A} 55'23	1°46'26		10643 Dec 29 05:36	0° \mathbb{H}	
minimum elong	10637 Nov 30 22:41	16° \mathbb{A} 55'23	1°46'57	evening set	10644 Feb 03 18:14	4° \mathbb{H} 07'09	
max. Earth dist.	10637 Nov 30 19:07	16° \mathbb{A} 54'16	10.34121 AU				
morning rise	10637 Dec 18 17:34	19° \mathbb{A} 08'45		conjunction	10644 Feb 21 06:38	6° \mathbb{H} 17'51	0°59'41
retrograde	10638 Apr 01 12:15	26° \mathbb{A} 59'51		minimum elong	10644 Feb 21 06:40	6° \mathbb{H} 17'51	0°59'57
opposition	10638 Jun 08 01:09	23° \mathbb{A} 34'27	2°17'00	max. Earth dist.	10644 Feb 20 21:20	6° \mathbb{H} 14'56	10.43336 AU
min. Earth dist.	10638 Jun 08 04:14	23° \mathbb{A} 33'50	8.33822 AU	morning rise	10644 Mar 09 15:39	8° \mathbb{H} 27'33	
direct	10638 Aug 14 22:52	20° \mathbb{A} 07'59		retrograde	10644 Jun 18 22:01	16° \mathbb{H} 02'44	
evening set	10638 Nov 27 05:56	28° \mathbb{A} 00'57		opposition	10644 Aug 25 12:52	12° \mathbb{H} 40'53	1°00'04
	10638 Dec 13 03:03	0° \mathbb{B}		min. Earth dist.	10644 Aug 25 19:23	12° \mathbb{H} 39'36	8.45383 AU
conjunction	10638 Dec 15 00:40	0° \mathbb{B} 14'22	1°52'54	direct	10644 Nov 03 00:02	9° \mathbb{H} 14'37	
minimum elong	10638 Dec 15 00:40	0° \mathbb{B} 14'22	1°53'27	evening set	10645 Feb 16 04:48	17° \mathbb{H} 03'01	
max. Earth dist.	10638 Dec 14 19:28	0° \mathbb{B} 12'44	10.33487 AU	conjunction	10645 Mar 05 15:03	19° \mathbb{H} 12'36	0°36'29
morning rise	10639 Jan 01 18:20	2° \mathbb{B} 27'32		minimum elong	10645 Mar 05 15:05	19° \mathbb{H} 12'36	0°36'38
retrograde	10639 Apr 15 02:12	10° \mathbb{B} 17'16		max. Earth dist.	10645 Mar 05 07:18	19° \mathbb{H} 10'11	10.47511 AU
opposition	10639 Jun 21 11:07	6° \mathbb{B} 52'22	2°21'19	morning rise	10645 Mar 22 21:46	21° \mathbb{H} 21'11	
min. Earth dist.	10639 Jun 21 15:39	6° \mathbb{B} 51'27	8.33645 AU	retrograde	10645 Jul 01 22:59	28° \mathbb{H} 52'59	
direct	10639 Aug 28 13:55	3° \mathbb{B} 25'29		opposition	10645 Sep 07 19:55	25° \mathbb{H} 31'33	0°30'08
evening set	10639 Dec 11 08:10	11° \mathbb{B} 20'17		min. Earth dist.	10645 Sep 08 01:38	25° \mathbb{H} 30'26	8.49740 AU
				direct	10645 Nov 16 12:01	22° \mathbb{H} 05'51	
conjunction	10639 Dec 29 02:15	13° \mathbb{B} 33'34	1°53'19	evening set	10646 Mar 01 10:24	29° \mathbb{H} 50'25	
minimum elong	10639 Dec 29 02:15	13° \mathbb{B} 33'34	1°53'52		10646 Mar 02 17:52	0° \mathbb{Y}	
max. Earth dist.	10639 Dec 28 18:55	13° \mathbb{B} 31'15	10.33733 AU	conjunction	10646 Mar 18 18:09	1° \mathbb{Y} 58'45	0°11'42
morning rise	10640 Jan 15 18:30	15° \mathbb{B} 46'21		minimum elong	10646 Mar 18 18:09	1° \mathbb{Y} 58'45	0°11'44
retrograde	10640 Apr 27 15:49	23° \mathbb{B} 34'02		behind sun begin	10646 Mar 18 13:07	1° \mathbb{Y} 57'12	
opposition	10640 Jul 03 21:40	20° \mathbb{B} 09'46	2°18'04	behind sun end	10646 Mar 18 23:12	2° \mathbb{Y} 00'18	
min. Earth dist.	10640 Jul 04 04:04	20° \mathbb{B} 08'29	8.34309 AU	max. Earth dist.	10646 Mar 18 11:38	1° \mathbb{Y} 56'44	10.52033 AU
direct	10640 Sep 10 05:33	16° \mathbb{B} 42'39		morning rise	10646 Apr 04 22:34	4° \mathbb{Y} 06'07	
evening set	10640 Dec 24 09:09	24° \mathbb{B} 38'21		retrograde	10646 Jul 14 20:47	11° \mathbb{Y} 34'52	
conjunction	10641 Jan 11 02:09	26° \mathbb{B} 51'17	1°47'41	desc. node	10646 Sep 09 13:41	9° \mathbb{Y} 06'31	
minimum elong	10641 Jan 11 02:11	26° \mathbb{B} 51'17	1°48'11	opposition	10646 Sep 21 01:13	8° \mathbb{Y} 13'47	-0°00'58
max. Earth dist.	10641 Jan 10 16:46	26° \mathbb{B} 48'19	10.34834 AU	min. Earth dist.	10646 Sep 21 06:15	8° \mathbb{Y} 12'48	8.54341 AU
morning rise	10641 Jan 28 16:50	29° \mathbb{B} 03'33		direct	10646 Nov 29 22:11	4° \mathbb{Y} 48'41	
	10641 Feb 05 09:59	0° \approx		evening set	10647 Mar 14 11:17	12° \mathbb{Y} 29'10	
retrograde	10641 May 11 03:39	6° \approx 48'39					
opposition	10641 Jul 17 08:23	3° \approx 25'04	2°07'27	conjunction	10647 Mar 31 16:15	14° \mathbb{Y} 36'09	-0°13'31
min. Earth dist.	10641 Jul 17 16:08	3° \approx 23'31	8.35839 AU	minimum elong	10647 Mar 31 16:14	14° \mathbb{Y} 36'09	0°13'36
	10641 Sep 17 17:01	30° \mathbb{R} \mathbb{B}		behind sun begin	10647 Mar 31 12:19	14° \mathbb{Y} 34'57	
direct	10641 Sep 23 22:40	29° \mathbb{B} 57'55		behind sun end	10647 Mar 31 20:10	14° \mathbb{Y} 37'21	
	10641 Sep 30 05:21	0° \approx		max. Earth dist.	10647 Mar 31 10:41	14° \mathbb{Y} 34'27	10.56669 AU
evening set	10642 Jan 07 07:47	7° \approx 53'23		morning rise	10647 Apr 17 18:23	16° \mathbb{Y} 42'18	
				retrograde	10647 Jul 27 16:18	24° \mathbb{Y} 08'27	
conjunction	10642 Jan 24 23:29	10° \approx 05'46	1°36'21	opposition	10647 Oct 04 04:32	20° \mathbb{Y} 47'36	-0°31'39

min. Earth dist.	10647 Oct 04 08:20	20° Υ 46'52	8.58960 AU		10653 Jun 28 10:26	0° \mathfrak{D}
direct	10647 Dec 13 04:41	17° Υ 23'13		retrograde	10653 Oct 09 12:47	7° \mathfrak{D} 26'39
evening set	10648 Mar 26 07:26	24° Υ 59'30		opposition	10653 Dec 18 15:08	4° \mathfrak{D} 05'17 -2°20'40
				min. Earth dist.	10653 Dec 18 08:47	4° \mathfrak{D} 06'29 8.76104 AU
conjunction	10648 Apr 12 09:39	27° Υ 05'10	-0°37'46	direct	10654 Feb 26 05:14	0° \mathfrak{D} 44'59
minimum elong	10648 Apr 12 09:38	27° Υ 05'09	0°37'59	evening set	10654 Jun 07 12:10	8° \mathfrak{D} 02'57
max. Earth dist.	10648 Apr 12 05:53	27° Υ 04'00	10.61201 AU			
morning rise	10648 Apr 29 09:31	29° Υ 10'08		conjunction	10654 Jun 24 06:17	10° \mathfrak{D} 04'23 -1°54'35
	10648 May 06 08:29	0° \mathfrak{C}		minimum elong	10654 Jun 24 06:18	10° \mathfrak{D} 04'23 1°55'08
retrograde	10648 Aug 08 09:12	6° \mathfrak{C} 34'19		max. Earth dist.	10654 Jun 24 14:33	10° \mathfrak{D} 06'54 10.76027 AU
opposition	10648 Oct 16 06:05	3° \mathfrak{C} 13'35	-1°00'32	morning rise	10654 Jul 11 01:39	12° \mathfrak{D} 06'13
min. Earth dist.	10648 Oct 16 07:40	3° \mathfrak{C} 13'16	8.63380 AU	retrograde	10654 Oct 22 04:56	19° \mathfrak{D} 31'30
	10648 Dec 11 04:59	30° \mathfrak{R} Υ		opposition	10654 Dec 31 09:28	16° \mathfrak{D} 09'44 -2°19'29
direct	10648 Dec 25 08:14	29° Υ 49'59		min. Earth dist.	10654 Dec 31 01:35	16° \mathfrak{D} 11'13 8.75986 AU
	10649 Jan 08 09:36	0° \mathfrak{C}		direct	10655 Mar 10 18:00	12° \mathfrak{D} 49'46
evening set	10649 Apr 07 23:05	7° \mathfrak{C} 22'09		evening set	10655 Jun 19 16:34	20° \mathfrak{D} 06'37
conjunction	10649 Apr 24 22:48	9° \mathfrak{C} 26'34	-1°00'03	conjunction	10655 Jul 06 11:41	22° \mathfrak{D} 08'21 -1°51'06
minimum elong	10649 Apr 24 22:46	9° \mathfrak{C} 26'34	1°00'22	minimum elong	10655 Jul 06 11:42	22° \mathfrak{D} 08'21 1°51'38
max. Earth dist.	10649 Apr 24 21:46	9° \mathfrak{C} 26'15	10.65417 AU	max. Earth dist.	10655 Jul 06 21:02	22° \mathfrak{D} 11'11 10.75433 AU
morning rise	10649 May 11 20:32	11° \mathfrak{C} 30'26		morning rise	10655 Jul 23 08:42	24° \mathfrak{D} 10'39
	10649 Jun 11 23:48	15° \mathfrak{C}			10655 Sep 19 23:38	0° \mathfrak{Q}
retrograde	10649 Aug 21 01:43	18° \mathfrak{C} 53'20		retrograde	10655 Nov 03 23:21	1° \mathfrak{Q} 37'51
opposition	10649 Oct 29 05:49	15° \mathfrak{C} 32'38	-1°26'19		10655 Dec 20 01:11	30° \mathfrak{R} \mathfrak{D}
min. Earth dist.	10649 Oct 29 05:07	15° \mathfrak{C} 32'46	8.67389 AU	opposition	10656 Jan 13 03:41	28° \mathfrak{D} 15'38 -2°12'08
	10649 Nov 05 09:53	15° \mathfrak{R} \mathfrak{C}		min. Earth dist.	10656 Jan 12 19:23	28° \mathfrak{D} 17'12 8.74912 AU
direct	10650 Jan 07 08:56	12° \mathfrak{C} 09'50		direct	10656 Mar 22 05:28	24° \mathfrak{D} 55'50
	10650 Mar 08 04:05	15° \mathfrak{C}			10656 Jun 11 17:20	0° \mathfrak{Q}
evening set	10650 Apr 20 11:12	19° \mathfrak{C} 38'12		evening set	10656 Jun 30 22:09	2° \mathfrak{Q} 12'16
conjunction	10650 May 07 08:40	21° \mathfrak{C} 41'32	-1°19'25	conjunction	10656 Jul 17 18:57	4° \mathfrak{Q} 14'35 -1°42'41
minimum elong	10650 May 07 08:38	21° \mathfrak{C} 41'31	1°19'50	minimum elong	10656 Jul 17 18:59	4° \mathfrak{Q} 14'36 1°43'11
max. Earth dist.	10650 May 07 10:08	21° \mathfrak{C} 41'59	10.69116 AU	max. Earth dist.	10656 Jul 18 04:21	4° \mathfrak{Q} 17'27 10.73921 AU
morning rise	10650 May 24 04:36	23° \mathfrak{C} 44'27		morning rise	10656 Aug 03 18:25	6° \mathfrak{Q} 17'40
	10650 Jul 28 08:05	0° \mathfrak{I}		retrograde	10656 Nov 15 17:41	13° \mathfrak{Q} 47'02
retrograde	10650 Sep 02 17:43	1° \mathfrak{I} 06'40		opposition	10657 Jan 24 21:54	10° \mathfrak{Q} 24'20 -1°58'52
	10650 Oct 09 21:32	30° \mathfrak{R} \mathfrak{C}		min. Earth dist.	10657 Jan 24 13:53	10° \mathfrak{Q} 25'52 8.72934 AU
opposition	10650 Nov 11 03:49	27° \mathfrak{C} 45'57	-1°47'58	direct	10657 Apr 03 16:37	7° \mathfrak{Q} 04'31
min. Earth dist.	10650 Nov 11 01:32	27° \mathfrak{C} 46'23	8.70796 AU	evening set	10657 Jul 13 05:38	14° \mathfrak{Q} 21'17
direct	10651 Jan 20 04:36	24° \mathfrak{C} 23'54			10657 Jul 18 14:46	15° \mathfrak{Q}
	10651 Apr 17 05:37	0° \mathfrak{I}				
evening set	10651 May 02 20:18	1° \mathfrak{I} 48'53		conjunction	10657 Jul 30 04:52	16° \mathfrak{Q} 24'29 -1°29'39
				minimum elong	10657 Jul 30 04:54	16° \mathfrak{Q} 24'29 1°30'04
conjunction	10651 May 19 15:49	3° \mathfrak{I} 51'19	-1°35'05	max. Earth dist.	10657 Jul 30 14:07	16° \mathfrak{Q} 27'18 10.71539 AU
minimum elong	10651 May 19 15:47	3° \mathfrak{I} 51'18	1°35'33	morning rise	10657 Aug 16 07:14	18° \mathfrak{Q} 28'34
max. Earth dist.	10651 May 19 18:45	3° \mathfrak{I} 52'13	10.72134 AU	retrograde	10657 Nov 28 13:24	26° \mathfrak{Q} 00'24
morning rise	10651 Jun 05 10:36	5° \mathfrak{I} 53'33		opposition	10658 Feb 06 16:29	22° \mathfrak{Q} 37'07 -1°40'12
retrograde	10651 Sep 15 07:44	13° \mathfrak{I} 15'42		min. Earth dist.	10658 Feb 06 08:43	22° \mathfrak{Q} 38'37 8.70104 AU
opposition	10651 Nov 24 00:43	9° \mathfrak{I} 54'53	-2°04'37	direct	10658 Apr 16 06:11	19° \mathfrak{Q} 17'07
min. Earth dist.	10651 Nov 23 21:26	9° \mathfrak{I} 55'30	8.73453 AU	evening set	10658 Jul 25 15:53	26° \mathfrak{Q} 34'57
direct	10652 Feb 01 22:15	6° \mathfrak{I} 33'31				
evening set	10652 May 14 02:52	13° \mathfrak{I} 55'36		conjunction	10658 Aug 11 18:02	28° \mathfrak{Q} 39'15 -1°12'28
				minimum elong	10658 Aug 11 18:05	28° \mathfrak{Q} 39'16 1°12'48
conjunction	10652 May 30 21:03	15° \mathfrak{I} 57'22	-1°46'25	max. Earth dist.	10658 Aug 12 03:40	28° \mathfrak{Q} 42'11 10.68333 AU
minimum elong	10652 May 30 21:01	15° \mathfrak{I} 57'22	1°46'56		10658 Aug 22 19:19	0° \mathfrak{P}
max. Earth dist.	10652 May 31 01:13	15° \mathfrak{I} 58'38	10.74346 AU	morning rise	10658 Aug 28 23:28	0° \mathfrak{P} 44'31
morning rise	10652 Jun 16 15:24	17° \mathfrak{I} 59'11		retrograde	10658 Dec 11 13:03	8° \mathfrak{P} 19'02
retrograde	10652 Sep 26 21:47	25° \mathfrak{I} 21'53		opposition	10659 Feb 19 11:45	4° \mathfrak{P} 55'10 -1°16'50
opposition	10652 Dec 05 20:28	22° \mathfrak{I} 00'51	-2°15'39	min. Earth dist.	10659 Feb 19 03:58	4° \mathfrak{P} 56'40 8.66482 AU
min. Earth dist.	10652 Dec 05 15:50	22° \mathfrak{I} 01'43	8.75248 AU	direct	10659 Apr 28 19:44	1° \mathfrak{P} 34'48
direct	10653 Feb 13 15:15	18° \mathfrak{I} 40'04		evening set	10659 Aug 07 05:52	8° \mathfrak{P} 54'30
evening set	10653 May 26 07:52	25° \mathfrak{I} 59'47				
				conjunction	10659 Aug 24 11:11	11° \mathfrak{P} 00'05 -0°51'51
conjunction	10653 Jun 12 01:36	28° \mathfrak{I} 01'14	-1°53'00	minimum elong	10659 Aug 24 11:13	11° \mathfrak{P} 00'05 0°52'04
minimum elong	10653 Jun 12 01:36	28° \mathfrak{I} 01'13	1°53'32	max. Earth dist.	10659 Aug 24 20:17	11° \mathfrak{P} 02'52 10.64374 AU
max. Earth dist.	10653 Jun 12 07:38	28° \mathfrak{I} 03'04	10.75662 AU	morning rise	10659 Sep 10 19:49	13° \mathfrak{P} 06'41
morning rise	10653 Jun 28 20:08	0° \mathfrak{D} 02'53		retrograde	10659 Dec 24 15:21	20° \mathfrak{P} 44'04

opposition	10660 Mar 03 08:04	17° \mathbb{M} 19'36	-0°49'41		10665 Nov 28 04:22	0° \mathbb{Z}	
min. Earth dist.	10660 Mar 03 01:00	17° \mathbb{M} 20'58	8.62162 AU	retrograde	10666 Mar 13 00:33	7° \mathbb{Z} 54'31	
direct	10660 May 10 09:12	13° \mathbb{M} 58'43		opposition	10666 May 19 21:15	4° \mathbb{Z} 28'20	1°57'47
evening set	10660 Aug 19 00:19	21° \mathbb{M} 21'11		min. Earth dist.	10666 May 19 23:12	4° \mathbb{Z} 27'57	8.36070 AU
				direct	10666 Jul 26 12:35	1° \mathbb{Z} 02'26	
conjunction	10660 Sep 05 08:46	23° \mathbb{M} 28'09	-0°28'37	evening set	10666 Nov 07 00:49	8° \mathbb{Z} 50'28	
minimum elong	10660 Sep 05 08:47	23° \mathbb{M} 28'09	0°28'43				
max. Earth dist.	10660 Sep 05 16:08	23° \mathbb{M} 30'25	10.59799 AU	conjunction	10666 Nov 24 19:46	11° \mathbb{Z} 03'38	1°41'33
morning rise	10660 Sep 22 20:37	25° \mathbb{M} 36'09		minimum elong	10666 Nov 24 19:43	11° \mathbb{Z} 03'37	1°42'03
	10660 Nov 02 04:17	0° \mathbb{L}		max. Earth dist.	10666 Nov 24 15:27	11° \mathbb{Z} 02'17	10.34769 AU
retrograde	10661 Jan 05 19:10	3° \mathbb{L} 16'32		morning rise	10666 Dec 12 14:58	13° \mathbb{Z} 16'55	
	10661 Mar 14 10:35	30° \mathbb{R} \mathbb{M}		retrograde	10667 Mar 26 14:39	21° \mathbb{Z} 08'00	
opposition	10661 Mar 16 05:52	29° \mathbb{M} 51'32	-0°19'54	opposition	10667 Jun 02 05:28	17° \mathbb{Z} 42'03	2°12'34
min. Earth dist.	10661 Mar 16 00:20	29° \mathbb{M} 52'37	8.57355 AU	min. Earth dist.	10667 Jun 02 09:26	17° \mathbb{Z} 41'15	8.33935 AU
direct	10661 May 23 02:31	26° \mathbb{M} 29'58		direct	10667 Aug 09 00:56	14° \mathbb{Z} 15'23	
	10661 Jul 27 13:52	0° \mathbb{L}		evening set	10667 Nov 21 02:00	22° \mathbb{Z} 06'55	
evening set	10661 Aug 31 23:53	3° \mathbb{L} 56'00					
				conjunction	10667 Dec 08 20:49	24° \mathbb{Z} 20'20	1°50'41
conjunction	10661 Sep 18 11:13	6° \mathbb{L} 04'22	-0°03'51	minimum elong	10667 Dec 08 20:48	24° \mathbb{Z} 20'19	1°51'13
minimum elong	10661 Sep 18 11:13	6° \mathbb{L} 04'22	0°03'50	max. Earth dist.	10667 Dec 08 14:10	24° \mathbb{Z} 18'14	10.33125 AU
behind sun begin	10661 Sep 18 04:06	6° \mathbb{L} 02'12		morning rise	10667 Dec 26 15:13	26° \mathbb{Z} 33'38	
behind sun end	10661 Sep 18 18:20	6° \mathbb{L} 06'32			10668 Jan 25 06:28	0° \mathbb{Z}	
max. Earth dist.	10661 Sep 18 16:12	6° \mathbb{L} 05'52	10.54877 AU	retrograde	10668 Apr 08 03:12	4° \mathbb{Z} 23'58	
morning rise	10661 Oct 06 01:57	8° \mathbb{L} 13'44		opposition	10668 Jun 14 14:39	0° \mathbb{Z} 58'24	2°20'20
asc. node	10661 Nov 14 17:57	12° \mathbb{L} 35'11		min. Earth dist.	10668 Jun 14 20:12	0° \mathbb{Z} 57'16	8.32848 AU
retrograde	10662 Jan 19 01:51	15° \mathbb{L} 57'01			10668 Jun 26 20:32	30° \mathbb{R} \mathbb{Z}	
opposition	10662 Mar 29 05:18	12° \mathbb{L} 31'34	0°11'10	direct	10668 Aug 21 15:45	27° \mathbb{Z} 31'09	
min. Earth dist.	10662 Mar 29 01:43	12° \mathbb{L} 32'17	8.52372 AU		10668 Oct 15 00:13	0° \mathbb{Z}	
direct	10662 Jun 04 22:05	9° \mathbb{L} 09'11		evening set	10668 Dec 04 03:56	5° \mathbb{Z} 25'14	
evening set	10662 Sep 14 04:44	16° \mathbb{L} 39'20					
				conjunction	10668 Dec 21 22:17	7° \mathbb{Z} 38'39	1°53'56
conjunction	10662 Oct 01 18:42	18° \mathbb{L} 49'02	0°21'29	minimum elong	10668 Dec 21 22:17	7° \mathbb{Z} 38'39	1°54'28
minimum elong	10662 Oct 01 18:41	18° \mathbb{L} 49'02	0°21'37	max. Earth dist.	10668 Dec 21 14:09	7° \mathbb{Z} 36'05	10.32575 AU
max. Earth dist.	10662 Oct 01 22:01	18° \mathbb{L} 50'03	10.49920 AU	morning rise	10669 Jan 08 15:26	9° \mathbb{Z} 51'43	
morning rise	10662 Oct 19 11:44	20° \mathbb{L} 59'40		retrograde	10669 Apr 21 16:17	17° \mathbb{Z} 40'30	
retrograde	10663 Feb 01 10:42	28° \mathbb{L} 45'38		opposition	10669 Jun 28 00:44	14° \mathbb{Z} 15'25	2°20'36
opposition	10663 Apr 11 06:35	25° \mathbb{L} 19'47	0°42'04	min. Earth dist.	10669 Jun 28 06:53	14° \mathbb{Z} 14'10	8.32863 AU
min. Earth dist.	10663 Apr 11 04:21	25° \mathbb{L} 20'14	8.47516 AU	direct	10669 Sep 04 07:32	10° \mathbb{Z} 47'50	
direct	10663 Jun 17 21:00	21° \mathbb{L} 56'31		evening set	10669 Dec 18 05:05	18° \mathbb{Z} 43'16	
evening set	10663 Sep 27 14:51	29° \mathbb{L} 31'10					
	10663 Oct 01 13:18	0° \mathbb{M}		conjunction	10670 Jan 04 22:42	20° \mathbb{Z} 56'28	1°51'05
				minimum elong	10670 Jan 04 22:43	20° \mathbb{Z} 56'29	1°51'37
conjunction	10663 Oct 15 07:04	1° \mathbb{M} 42'04	0°45'53	max. Earth dist.	10670 Jan 04 14:14	20° \mathbb{Z} 53'48	10.33152 AU
minimum elong	10663 Oct 15 07:02	1° \mathbb{M} 42'04	0°46'08	morning rise	10670 Jan 22 14:18	23° \mathbb{Z} 09'06	
max. Earth dist.	10663 Oct 15 09:04	1° \mathbb{M} 42'41	10.45204 AU		10670 Apr 02 23:37	0° \mathbb{M}	
morning rise	10663 Nov 02 01:39	3° \mathbb{M} 53'44		retrograde	10670 May 05 04:27	0° \mathbb{M} 55'36	
retrograde	10664 Feb 14 20:41	11° \mathbb{M} 42'00			10670 Jun 06 16:47	30° \mathbb{R} \mathbb{Z}	
opposition	10664 Apr 23 09:42	8° \mathbb{M} 15'52	1°11'10	opposition	10670 Jul 11 11:09	27° \mathbb{Z} 31'05	2°13'21
min. Earth dist.	10664 Apr 23 08:32	8° \mathbb{M} 16'06	8.43035 AU	min. Earth dist.	10670 Jul 11 17:28	27° \mathbb{Z} 29'49	8.33982 AU
direct	10664 Jun 30 00:18	4° \mathbb{M} 51'42		direct	10670 Sep 17 23:58	24° \mathbb{Z} 03'24	
evening set	10664 Oct 10 06:13	12° \mathbb{M} 31'01			10670 Dec 15 15:06	0° \mathbb{M}	
				evening set	10671 Jan 01 04:37	1° \mathbb{M} 59'04	
conjunction	10664 Oct 27 24:00	14° \mathbb{M} 42'56	1°08'10				
minimum elong	10664 Oct 27 23:57	14° \mathbb{M} 42'55	1°08'31	conjunction	10671 Jan 18 21:12	4° \mathbb{M} 11'49	1°42'20
max. Earth dist.	10664 Oct 28 00:30	14° \mathbb{M} 43'05	10.40965 AU	minimum elong	10671 Jan 18 21:14	4° \mathbb{M} 11'50	1°42'49
	10664 Oct 30 06:41	15° \mathbb{M}		max. Earth dist.	10671 Jan 18 12:32	4° \mathbb{M} 09'06	10.34829 AU
morning rise	10664 Nov 14 19:22	16° \mathbb{M} 55'23		morning rise	10671 Feb 05 11:03	6° \mathbb{M} 23'49	
retrograde	10665 Feb 27 09:48	24° \mathbb{M} 45'21		retrograde	10671 May 18 14:20	14° \mathbb{M} 07'23	
opposition	10665 May 06 14:31	21° \mathbb{M} 19'06	1°36'54	opposition	10671 Jul 24 21:22	10° \mathbb{M} 43'35	1°59'03
min. Earth dist.	10665 May 06 14:36	21° \mathbb{M} 19'05	8.39154 AU	min. Earth dist.	10671 Jul 25 04:05	10° \mathbb{M} 42'15	8.36152 AU
direct	10665 Jul 13 05:01	17° \mathbb{M} 54'02		direct	10671 Oct 01 16:49	7° \mathbb{M} 16'00	
evening set	10665 Oct 24 01:55	25° \mathbb{M} 37'55			10672 Jan 13 14:16	15° \mathbb{M}	
				evening set	10672 Jan 15 01:24	15° \mathbb{M} 10'47	
conjunction	10665 Nov 10 20:34	27° \mathbb{M} 50'35	1°27'05				
minimum elong	10665 Nov 10 20:31	27° \mathbb{M} 50'35	1°27'32	conjunction	10672 Feb 01 16:33	17° \mathbb{M} 22'52	1°28'14
max. Earth dist.	10665 Nov 10 18:50	27° \mathbb{M} 50'03	10.37426 AU	minimum elong	10672 Feb 01 16:36	17° \mathbb{M} 22'53	1°28'39
morning rise	10665 Nov 28 16:05	0° \mathbb{Z} 03'36		max. Earth dist.	10672 Feb 01 07:39	17° \mathbb{M} 20'04	10.37518 AU

morning rise	10672 Feb 19 04:33	19° \approx 34'04		conjunction	10678 Apr 19 12:21	3° \approx 58'15	-0°49'55
retrograde	10672 May 30 22:28	27° \approx 14'19		minimum elong	10678 Apr 19 12:19	3° \approx 58'15	0°50'12
opposition	10672 Aug 06 07:16	23° \approx 51'16	1°38'36	max. Earth dist.	10678 Apr 19 10:29	3° \approx 57'41	10.64422 AU
min. Earth dist.	10672 Aug 06 14:26	23° \approx 49'51	8.39262 AU	morning rise	10678 May 06 11:01	6° \approx 02'35	
direct	10672 Oct 14 08:42	20° \approx 24'02		retrograde	10678 Aug 15 14:54	13° \approx 25'59	
evening set	10673 Jan 27 18:22	28° \approx 16'52		opposition	10678 Oct 23 14:13	10° \approx 05'51	-1°14'40
	10673 Feb 10 14:12	0° \approx		min. Earth dist.	10678 Oct 23 15:11	10° \approx 05'40	8.66565 AU
				direct	10679 Jan 01 15:38	6° \approx 43'12	
conjunction	10673 Feb 14 07:41	0° \approx 28'04	1°09'38	evening set	10679 Apr 15 01:42	14° \approx 13'20	
minimum elong	10673 Feb 14 07:43	0° \approx 28'04	1°09'57		10679 Apr 21 12:04	15° \approx	
max. Earth dist.	10673 Feb 13 22:36	0° \approx 25'13	10.41075 AU				
morning rise	10673 Mar 03 17:45	2° \approx 38'18		conjunction	10679 May 02 00:00	16° \approx 17'06	-1°10'45
retrograde	10673 Jun 13 03:23	10° \approx 15'05		minimum elong	10679 May 01 23:58	16° \approx 17'05	1°11'08
opposition	10673 Aug 19 16:17	6° \approx 52'46	1°13'13	max. Earth dist.	10679 May 01 23:14	16° \approx 16'52	10.68466 AU
min. Earth dist.	10673 Aug 19 23:24	6° \approx 51'22	8.43154 AU	morning rise	10679 May 18 20:49	18° \approx 20'24	
direct	10673 Oct 27 23:59	3° \approx 26'06		retrograde	10679 Aug 28 06:15	25° \approx 42'48	
evening set	10674 Feb 10 07:07	11° \approx 16'05		opposition	10679 Nov 05 13:22	22° \approx 22'40	-1°38'20
				min. Earth dist.	10679 Nov 05 12:56	22° \approx 22'45	8.70258 AU
conjunction	10674 Feb 27 18:20	13° \approx 26'13	0°47'37	direct	10680 Jan 14 14:14	19° \approx 00'47	
minimum elong	10674 Feb 27 18:21	13° \approx 26'14	0°47'50	evening set	10680 Apr 26 12:25	26° \approx 27'22	
max. Earth dist.	10674 Feb 27 09:42	13° \approx 23'31	10.45316 AU				
morning rise	10674 Mar 17 02:20	15° \approx 35'23		conjunction	10680 May 13 08:42	28° \approx 30'08	-1°28'12
retrograde	10674 Jun 26 04:42	23° \approx 08'44		minimum elong	10680 May 13 08:40	28° \approx 30'07	1°28'40
opposition	10674 Sep 01 23:52	19° \approx 47'05	0°44'22	max. Earth dist.	10680 May 13 09:47	28° \approx 30'28	10.71689 AU
min. Earth dist.	10674 Sep 02 05:58	19° \approx 45'54	8.47629 AU		10680 May 25 15:33	0° \approx	
direct	10674 Nov 10 14:16	16° \approx 21'07		morning rise	10680 May 30 04:01	0° \approx 32'38	
evening set	10675 Feb 23 15:14	24° \approx 07'36		retrograde	10680 Sep 08 21:01	7° \approx 54'50	
				opposition	10680 Nov 17 11:05	4° \approx 34'33	-1°57'23
conjunction	10675 Mar 13 00:09	26° \approx 16'32	0°23'24	min. Earth dist.	10680 Nov 17 08:41	4° \approx 35'01	8.73036 AU
minimum elong	10675 Mar 13 00:10	26° \approx 16'32	0°23'30	direct	10681 Jan 26 10:38	1° \approx 13'20	
max. Earth dist.	10675 Mar 12 17:06	26° \approx 14'20	10.50016 AU	evening set	10681 May 08 20:23	8° \approx 36'55	
morning rise	10675 Mar 30 05:51	28° \approx 24'30					
	10675 Apr 12 14:14	0° \approx		conjunction	10681 May 25 15:15	10° \approx 38'58	-1°41'36
retrograde	10675 Jul 09 04:49	5° \approx 54'41		minimum elong	10681 May 25 15:13	10° \approx 38'58	1°42'07
opposition	10675 Sep 15 06:03	2° \approx 33'36	0°13'38	max. Earth dist.	10681 May 25 18:33	10° \approx 39'59	10.73941 AU
min. Earth dist.	10675 Sep 15 10:32	2° \approx 32'44	8.52450 AU	morning rise	10681 Jun 11 09:38	12° \approx 40'57	
	10675 Oct 22 15:19	30° \approx		retrograde	10681 Sep 21 13:21	20° \approx 03'37	
direct	10675 Nov 24 01:29	29° \approx 08'27		opposition	10681 Nov 30 07:41	16° \approx 43'04	-2°11'06
	10675 Dec 26 01:45	0° \approx		min. Earth dist.	10681 Nov 30 03:55	16° \approx 43'47	8.74812 AU
desc. node	10676 Feb 27 08:20	5° \approx 43'19		direct	10682 Feb 08 04:07	13° \approx 22'23	
evening set	10676 Mar 07 18:33	6° \approx 50'57		evening set	10682 May 21 02:41	20° \approx 43'29	
conjunction	10676 Mar 25 00:57	8° \approx 58'35	-0°01'49	conjunction	10682 Jun 06 20:39	22° \approx 45'08	-1°50'26
minimum elong	10676 Mar 25 00:56	8° \approx 58'34	0°01'51	minimum elong	10682 Jun 06 20:37	22° \approx 45'08	1°50'58
behind sun begin	10676 Mar 24 17:49	8° \approx 56'23		max. Earth dist.	10682 Jun 07 01:07	22° \approx 46'30	10.75192 AU
behind sun end	10676 Mar 25 08:03	9° \approx 00'45		morning rise	10682 Jun 23 14:53	24° \approx 46'53	
max. Earth dist.	10676 Mar 24 20:07	8° \approx 57'07	10.54929 AU		10682 Aug 13 04:06	0° \approx	
morning rise	10676 Apr 11 04:07	11° \approx 05'17		retrograde	10682 Oct 04 04:48	2° \approx 10'30	
retrograde	10676 Jul 21 03:05	18° \approx 32'41			10682 Nov 27 06:13	30° \approx	
opposition	10676 Sep 27 10:36	15° \approx 12'03	-0°17'26	opposition	10682 Dec 13 03:23	28° \approx 49'33	-2°18'58
min. Earth dist.	10676 Sep 27 13:28	15° \approx 11'30	8.57381 AU	min. Earth dist.	10682 Dec 12 22:52	28° \approx 50'24	8.75582 AU
direct	10676 Dec 06 08:32	11° \approx 47'47		direct	10683 Feb 20 17:52	25° \approx 29'12	
evening set	10677 Mar 20 17:15	19° \approx 26'04			10683 May 08 12:47	0° \approx	
				evening set	10683 Jun 02 07:50	2° \approx 48'26	
conjunction	10677 Apr 06 20:54	21° \approx 32'21	-0°26'35				
minimum elong	10677 Apr 06 20:53	21° \approx 32'21	0°26'45	conjunction	10683 Jun 19 01:36	4° \approx 49'56	-1°54'21
max. Earth dist.	10677 Apr 06 18:02	21° \approx 31'28	10.59816 AU	minimum elong	10683 Jun 19 01:36	4° \approx 49'56	1°54'54
morning rise	10677 Apr 23 21:40	23° \approx 37'49		max. Earth dist.	10683 Jun 19 06:47	4° \approx 51'31	10.75459 AU
	10677 Jun 28 23:00	0° \approx		morning rise	10683 Jul 05 20:34	6° \approx 51'46	
retrograde	10677 Aug 02 21:57	1° \approx 02'56		retrograde	10683 Oct 16 19:15	14° \approx 16'50	
	10677 Sep 07 14:13	30° \approx		opposition	10683 Dec 25 22:36	10° \approx 55'19	-2°20'41
opposition	10677 Oct 10 13:19	27° \approx 42'37	-0°47'19	min. Earth dist.	10683 Dec 25 17:27	10° \approx 56'18	8.75366 AU
min. Earth dist.	10677 Oct 10 15:15	27° \approx 42'15	8.62178 AU	direct	10684 Mar 04 09:00	7° \approx 35'08	
direct	10677 Dec 19 13:09	24° \approx 19'11		evening set	10684 Jun 13 12:28	14° \approx 53'03	
	10678 Mar 17 08:01	0° \approx					
evening set	10678 Apr 02 11:29	1° \approx 53'18		conjunction	10684 Jun 30 07:00	16° \approx 54'45	-1°53'13
				minimum elong	10684 Jun 30 07:01	16° \approx 54'45	1°53'45

max. Earth dist.	10684 Jun 30 13:31	16°☾56'44	10.74762 AU	minimum elong	10690 Sep 12 23:23	0°☾42'36	0°15'00
morning rise	10684 Jul 17 03:22	18°☾56'58		behind sun begin	10690 Sep 12 20:51	0°☾41'50	
retrograde	10684 Oct 28 12:13	26°☾23'54		behind sun end	10690 Sep 13 01:55	0°☾43'23	
opposition	10685 Jan 06 17:17	23°☾01'42	-2°16'10	max. Earth dist.	10690 Sep 13 06:50	0°☾44'53	10.54537 AU
min. Earth dist.	10685 Jan 06 10:55	23°☾02'55	8.74189 AU	morning rise	10690 Sep 30 12:54	2°☾51'40	
direct	10685 Mar 16 22:58	19°☾41'32		retrograde	10691 Jan 13 12:11	10°☾34'44	
evening set	10685 Jun 25 17:47	26°☾58'47		opposition	10691 Mar 23 19:36	7°☾08'46	-0°02'41
				min. Earth dist.	10691 Mar 23 13:51	7°☾09'53	8.52182 AU
conjunction	10685 Jul 12 13:55	29°☾01'01	-1°47'03	asc. node	10691 Apr 24 19:13	4°☾51'31	
minimum elong	10685 Jul 12 13:56	29°☾01'02	1°47'33	direct	10691 May 30 14:33	3°☾46'07	
max. Earth dist.	10685 Jul 12 22:09	29°☾03'32	10.73133 AU	evening set	10691 Sep 08 16:08	11°☾15'18	
	10685 Jul 20 15:47	0°♈					
morning rise	10685 Jul 29 12:14	1°♈03'55		conjunction	10691 Sep 26 05:12	13°☾24'43	0°10'21
retrograde	10685 Nov 10 07:11	8°♈33'00		minimum elong	10691 Sep 26 05:12	13°☾24'43	0°10'26
opposition	10686 Jan 19 11:41	5°♈10'06	-2°05'34	behind sun begin	10691 Sep 25 23:34	13°☾22'59	
min. Earth dist.	10686 Jan 19 04:11	5°♈11'31	8.72099 AU	behind sun end	10691 Sep 26 10:49	13°☾26'26	
direct	10686 Mar 29 10:36	1°♈49'49		max. Earth dist.	10691 Sep 26 11:20	13°☾26'36	10.49860 AU
evening set	10686 Jul 08 00:41	9°♈07'10		morning rise	10691 Oct 13 21:15	15°☾35'05	
				retrograde	10692 Jan 26 21:40	23°☾20'53	
conjunction	10686 Jul 24 22:59	11°♈10'11	-1°36'03	opposition	10692 Apr 04 20:38	19°☾54'36	0°28'33
minimum elong	10686 Jul 24 23:01	11°♈10'12	1°36'31	min. Earth dist.	10692 Apr 04 16:11	19°☾55'29	8.47578 AU
max. Earth dist.	10686 Jul 25 08:08	11°♈12'59	10.70641 AU	direct	10692 Jun 11 11:26	16°☾31'16	
morning rise	10686 Aug 10 23:53	13°♈14'01		evening set	10692 Sep 21 00:42	24°☾04'47	
	10686 Aug 26 04:47	15°♈					
retrograde	10686 Nov 23 03:25	20°♈45'35		conjunction	10692 Oct 08 16:03	26°☾15'26	0°35'17
opposition	10687 Feb 01 06:36	17°♈21'58	-1°49'17	minimum elong	10692 Oct 08 16:01	26°☾15'25	0°35'30
min. Earth dist.	10687 Jan 31 22:42	17°♈23'29	8.69185 AU	max. Earth dist.	10692 Oct 08 19:52	26°☾16'37	10.45379 AU
	10687 Mar 07 14:32	15°♈♈		morning rise	10692 Oct 26 10:04	28°☾26'55	
direct	10687 Apr 10 23:10	14°♈01'27			10692 Nov 08 10:46	0°♈	
	10687 May 14 16:39	15°♈		retrograde	10693 Feb 08 08:21	6°♈15'08	
evening set	10687 Jul 20 09:57	21°♈19'37		opposition	10693 Apr 17 23:41	2°♈48'44	0°58'40
				min. Earth dist.	10693 Apr 17 21:09	2°♈49'15	8.43299 AU
conjunction	10687 Aug 06 10:49	23°♈23'41	-1°20'40		10693 May 29 17:00	30°♈♈	
minimum elong	10687 Aug 06 10:51	23°♈23'41	1°21'03	direct	10693 Jun 24 12:58	29°☾24'40	
max. Earth dist.	10687 Aug 06 19:33	23°♈26'21	10.67391 AU		10693 Jul 20 05:26	0°♈	
morning rise	10687 Aug 23 14:53	25°♈28'41		evening set	10693 Oct 04 14:31	7°♈02'48	
	10687 Oct 04 15:06	0°♈					
retrograde	10687 Dec 06 02:20	3°♈02'58		conjunction	10693 Oct 22 07:33	9°♈14'30	0°58'41
	10688 Feb 09 11:21	30°♈♈		minimum elong	10693 Oct 22 07:31	9°♈14'30	0°59'00
opposition	10688 Feb 14 02:13	29°♈38'40	-1°27'54	max. Earth dist.	10693 Oct 22 09:03	9°♈14'58	10.41327 AU
min. Earth dist.	10688 Feb 13 19:00	29°♈40'03	8.65570 AU	morning rise	10693 Nov 09 02:49	11°♈26'53	
direct	10688 Apr 22 12:01	26°♈17'45			10693 Dec 10 03:16	15°♈	
	10688 Jun 29 08:41	0°♈		retrograde	10694 Feb 21 21:06	19°♈17'02	
evening set	10688 Jul 31 22:40	3°♈37'33		opposition	10694 May 01 04:42	15°♈50'42	1°26'06
				min. Earth dist.	10694 May 01 03:59	15°♈50'50	8.39578 AU
conjunction	10688 Aug 18 02:33	5°♈42'51	-1°01'28		10694 May 11 20:47	15°♈♈	
minimum elong	10688 Aug 18 02:35	5°♈42'51	1°01'45	direct	10694 Jul 07 17:37	12°♈25'56	
max. Earth dist.	10688 Aug 18 10:34	5°♈45'18	10.63513 AU		10694 Aug 31 20:08	15°♈	
morning rise	10688 Sep 04 10:00	7°♈49'11		evening set	10694 Oct 18 09:08	20°♈08'40	
retrograde	10688 Dec 18 02:38	15°♈26'18					
opposition	10689 Feb 25 22:34	12°♈01'22	-1°02'16	conjunction	10694 Nov 05 03:23	22°♈21'12	1°19'14
min. Earth dist.	10689 Feb 25 16:06	12°♈02'37	8.61407 AU	minimum elong	10694 Nov 05 03:21	22°♈21'11	1°19'39
direct	10689 May 05 02:23	8°♈39'57		max. Earth dist.	10694 Nov 05 03:02	22°♈21'06	10.37934 AU
evening set	10689 Aug 13 15:31	16°♈02'12		morning rise	10694 Nov 22 23:08	24°♈34'12	
					10695 Jan 12 14:11	0°♈	
conjunction	10689 Aug 30 22:40	18°♈08'51	-0°39'14	retrograde	10695 Mar 07 11:14	2°♈25'37	
minimum elong	10689 Aug 30 22:41	18°♈08'52	0°39'24		10695 May 01 16:55	30°♈♈	
max. Earth dist.	10689 Aug 31 06:21	18°♈11'13	10.59164 AU	opposition	10695 May 14 11:26	28°♈59'28	1°49'16
morning rise	10689 Sep 17 09:19	20°♈16'34		min. Earth dist.	10695 May 14 12:03	28°♈59'20	8.36619 AU
retrograde	10689 Dec 31 05:11	27°♈56'40		direct	10695 Jul 21 01:51	25°♈34'03	
opposition	10690 Mar 10 20:17	24°♈31'09	-0°33'26		10695 Oct 03 09:14	0°♈	
min. Earth dist.	10690 Mar 10 14:12	24°♈32'20	8.56873 AU	evening set	10695 Nov 01 07:40	3°♈21'05	
direct	10690 May 17 20:14	21°♈09'09					
evening set	10690 Aug 26 13:05	28°♈34'32		conjunction	10695 Nov 19 02:38	5°♈34'12	1°35'45
	10690 Sep 07 05:10	0°♈		minimum elong	10695 Nov 19 02:36	5°♈34'12	1°36'14
				max. Earth dist.	10695 Nov 19 00:57	5°♈33'41	10.35374 AU
conjunction	10690 Sep 12 23:22	0°☾42'36	-0°14'58	morning rise	10695 Dec 06 22:09	7°♈47'33	

retrograde	10696 Mar 20 02:01	15°♄39'22			10702 Sep 06 12:03	30°♄	
opposition	10696 May 26 19:47	12°♄13'33	2°06'48	direct	10702 Oct 23 14:28	28°♄13'32	
min. Earth dist.	10696 May 26 21:26	12°♄13'13	8.34556 AU		10702 Dec 08 20:09	0°♄	
direct	10696 Aug 02 13:27	8°♄47'34		evening set	10703 Feb 05 23:31	6°♄05'12	
evening set	10696 Nov 14 08:59	16°♄38'15					
				conjunction	10703 Feb 23 11:54	8°♄15'54	0°57'02
conjunction	10696 Dec 02 04:03	18°♄51'41	1°47'16	minimum elong	10703 Feb 23 11:56	8°♄15'55	0°57'18
minimum elong	10696 Dec 02 04:01	18°♄51'40	1°47'48	max. Earth dist.	10703 Feb 23 03:07	8°♄13'10	10.43293 AU
max. Earth dist.	10696 Dec 02 00:42	18°♄50'38	10.33765 AU	morning rise	10703 Mar 12 20:45	10°♄25'37	
morning rise	10696 Dec 19 22:43	21°♄05'04		retrograde	10703 Jun 22 03:17	18°♄00'51	
retrograde	10697 Apr 02 17:15	28°♄56'23		opposition	10703 Aug 28 18:18	14°♄39'03	0°56'37
opposition	10697 Jun 09 05:20	25°♄31'01	2°17'39	min. Earth dist.	10703 Aug 29 01:01	14°♄37'44	8.45332 AU
min. Earth dist.	10697 Jun 09 08:24	25°♄30'24	8.33473 AU	direct	10703 Nov 06 05:14	11°♄12'51	
direct	10697 Aug 16 02:27	22°♄04'31		evening set	10704 Feb 19 10:14	19°♄01'18	
evening set	10697 Nov 28 11:32	29°♄57'56					
	10697 Nov 28 18:15	0°♄		conjunction	10704 Mar 07 20:19	21°♄10'52	0°33'35
conjunction	10697 Dec 16 06:11	2°♄11'25	1°53'04	minimum elong	10704 Mar 07 20:20	21°♄10'52	0°33'44
minimum elong	10697 Dec 16 06:11	2°♄11'24	1°53'38	max. Earth dist.	10704 Mar 07 12:17	21°♄08'22	10.47459 AU
max. Earth dist.	10697 Dec 16 00:47	2°♄09'42	10.33167 AU	morning rise	10704 Mar 25 02:56	23°♄19'27	
morning rise	10698 Jan 02 23:43	4°♄24'36		retrograde	10704 Jun 03 00:21	0°♄	
retrograde	10698 Apr 16 08:24	12°♄14'28			10704 Jul 04 04:20	0°♄51'21	
opposition	10698 Jun 22 15:44	8°♄49'38	2°21'08	opposition	10704 Aug 04 19:38	30°♄	
min. Earth dist.	10698 Jun 22 20:40	8°♄48'39	8.33377 AU	min. Earth dist.	10704 Sep 10 01:40	27°♄29'59	0°26'27
direct	10698 Aug 29 17:27	5°♄22'43		direct	10704 Sep 10 07:54	27°♄28'46	8.49683 AU
evening set	10698 Dec 12 13:47	13°♄17'50			10704 Nov 18 18:00	24°♄04'20	
				evening set	10705 Feb 16 07:58	0°♄	
conjunction	10698 Dec 30 07:43	15°♄31'09	1°52'49		10705 Mar 03 15:53	1°♄48'57	
minimum elong	10698 Dec 30 07:44	15°♄31'09	1°53'22	conjunction	10705 Mar 20 23:22	3°♄57'15	0°08'42
max. Earth dist.	10698 Dec 29 23:45	15°♄28'38	10.33530 AU	minimum elong	10705 Mar 20 23:22	3°♄57'15	0°08'43
morning rise	10699 Jan 16 23:58	17°♄43'58		behind sun begin	10705 Mar 20 17:11	3°♄55'21	
retrograde	10699 Apr 29 20:53	25°♄31'39		behind sun end	10705 Mar 21 05:33	3°♄59'09	
opposition	10699 Jul 06 02:30	22°♄07'26	2°17'02	max. Earth dist.	10705 Mar 20 16:16	3°♄55'04	10.51976 AU
min. Earth dist.	10699 Jul 06 09:25	22°♄06'03	8.34170 AU	morning rise	10705 Apr 07 03:45	6°♄04'37	
direct	10699 Sep 12 10:54	18°♄40'17		retrograde	10705 Jul 17 02:29	13°♄33'31	
evening set	10699 Dec 26 14:46	26°♄36'09		desc. node	10705 Jul 29 04:10	13°♄25'50	
				opposition	10705 Sep 23 07:13	10°♄12'27	-0°04'41
conjunction	10700 Jan 13 07:40	28°♄49'05	1°46'32	min. Earth dist.	10705 Sep 23 12:20	10°♄11'28	8.54286 AU
minimum elong	10700 Jan 13 07:42	28°♄49'05	1°47'02	direct	10705 Dec 02 03:47	6°♄47'26	
max. Earth dist.	10700 Jan 12 21:39	28°♄45'55	10.34747 AU	evening set	10706 Mar 16 16:43	14°♄27'55	
	10700 Jan 22 17:09	0°♄					
morning rise	10700 Jan 30 22:23	1°♄01'22		conjunction	10706 Apr 02 21:32	16°♄34'53	-0°16'29
retrograde	10700 May 13 06:48	8°♄46'24		minimum elong	10706 Apr 02 21:31	16°♄34'53	0°16'35
opposition	10700 Jul 19 13:12	5°♄22'51	2°05'39	max. Earth dist.	10706 Apr 02 16:00	16°♄33'11	10.56617 AU
min. Earth dist.	10700 Jul 19 21:03	5°♄21'17	8.35782 AU	morning rise	10706 Apr 19 23:36	18°♄41'02	
direct	10700 Sep 26 05:32	1°♄55'41		retrograde	10706 Jul 29 21:14	26°♄07'22	
evening set	10701 Jan 09 13:16	9°♄51'15		opposition	10706 Oct 06 10:39	22°♄46'29	-0°35'14
				min. Earth dist.	10706 Oct 06 13:47	22°♄45'53	8.58910 AU
conjunction	10701 Jan 27 04:57	12°♄03'38	1°34'36	direct	10706 Dec 15 11:20	19°♄22'11	
minimum elong	10701 Jan 27 04:59	12°♄03'39	1°35'03	evening set	10707 Mar 29 12:53	26°♄58'27	
max. Earth dist.	10701 Jan 26 18:26	12°♄00'20	10.36802 AU				
morning rise	10701 Feb 13 17:55	14°♄15'13		conjunction	10707 Apr 15 15:03	29°♄04'05	-0°40'33
	10701 Feb 19 20:30	15°♄		minimum elong	10707 Apr 15 15:01	29°♄04'04	0°40'47
retrograde	10701 May 26 16:03	21°♄57'14		max. Earth dist.	10707 Apr 15 12:11	29°♄03'12	10.61151 AU
opposition	10701 Aug 01 23:47	18°♄34'19	1°47'40		10707 Apr 23 04:23	0°♄	
min. Earth dist.	10701 Aug 02 07:27	18°♄32'48	8.38226 AU	morning rise	10707 May 02 14:44	1°♄09'01	
direct	10701 Oct 09 22:31	15°♄07'20		retrograde	10707 Aug 11 15:31	8°♄33'24	
evening set	10702 Jan 23 08:18	23°♄01'26		opposition	10707 Oct 19 12:20	5°♄12'38	-1°03'48
				min. Earth dist.	10707 Oct 19 13:12	5°♄12'28	8.63330 AU
conjunction	10702 Feb 09 22:31	25°♄13'06	1°17'46	direct	10707 Dec 28 15:05	1°♄49'05	
minimum elong	10702 Feb 09 22:34	25°♄13'07	1°18'08	evening set	10708 Apr 10 04:38	9°♄21'12	
max. Earth dist.	10702 Feb 09 12:41	25°♄10'00	10.39686 AU				
morning rise	10702 Feb 27 09:33	27°♄23'49		conjunction	10708 Apr 27 04:14	11°♄25'36	-1°02'32
	10702 Mar 21 11:05	0°♄		minimum elong	10708 Apr 27 04:12	11°♄25'35	1°02'53
retrograde	10702 Jun 08 23:26	5°♄02'31		max. Earth dist.	10708 Apr 27 03:59	11°♄25'32	10.65365 AU
opposition	10702 Aug 15 09:37	1°♄40'11	1°24'12	morning rise	10708 May 14 01:44	13°♄29'26	
min. Earth dist.	10702 Aug 15 16:41	1°♄38'47	8.41453 AU		10708 May 26 21:31	15°♄	

retrograde	10708 Aug 23 08:52	20°♄52'29		retrograde	10714 Nov 06 04:45	3°♄36'23	
opposition	10708 Oct 31 12:16	17°♄31'46 -1°29'08		opposition	10715 Jan 15 09:40	0°♄14'08 -2°10'37	
min. Earth dist.	10708 Oct 31 11:27	17°♄31'55 8.67344 AU		min. Earth dist.	10715 Jan 15 01:49	0°♄15'37 8.74905 AU	
	10708 Dec 08 02:35	15°♄8			10715 Jan 18 12:07	30°♄8	
direct	10709 Jan 09 13:38	14°♄08'59		direct	10715 Mar 25 10:15	26°♄54'19	
	10709 Feb 10 14:06	15°♄			10715 May 26 11:53	0°♄	
evening set	10709 Apr 22 16:45	21°♄37'16		evening set	10715 Jul 04 03:12	4°♄10'38	
conjunction	10709 May 09 13:59	23°♄40'33 -1°21'29		conjunction	10715 Jul 21 00:12	6°♄13'00 -1°41'11	
minimum elong	10709 May 09 13:57	23°♄40'32 1°21'54		minimum elong	10715 Jul 21 00:14	6°♄13'00 1°41'41	
max. Earth dist.	10709 May 09 15:26	23°♄41'00 10.69076 AU		max. Earth dist.	10715 Jul 21 09:27	6°♄15'49 10.73918 AU	
morning rise	10709 May 26 09:52	25°♄43'28		morning rise	10715 Aug 06 23:56	8°♄16'07	
	10709 Jul 04 18:22	0°♄			10715 Oct 19 14:45	15°♄	
retrograde	10709 Sep 04 23:02	3°♄05'49		retrograde	10715 Nov 18 22:19	15°♄45'31	
	10709 Nov 10 03:39	30°♄8			10715 Dec 19 16:02	15°♄8	
opposition	10709 Nov 13 10:24	29°♄45'03 -1°50'12		opposition	10716 Jan 28 03:44	12°♄22'45 -1°56'41	
min. Earth dist.	10709 Nov 13 08:28	29°♄45'25 8.70771 AU		min. Earth dist.	10716 Jan 27 19:37	12°♄24'18 8.72930 AU	
direct	10710 Jan 22 10:35	26°♄23'00		direct	10716 Apr 05 23:29	9°♄02'56	
	10710 Mar 31 15:07	0°♄			10716 Jul 04 02:27	15°♄	
evening set	10710 May 05 01:45	3°♄47'54		evening set	10716 Jul 15 10:35	16°♄19'35	
conjunction	10710 May 21 21:06	5°♄50'17 -1°36'37		conjunction	10716 Aug 01 10:09	18°♄22'51 -1°27'38	
minimum elong	10710 May 21 21:04	5°♄50'16 1°37'07		minimum elong	10716 Aug 01 10:11	18°♄22'51 1°28'03	
max. Earth dist.	10710 May 21 23:41	5°♄51'04 10.72114 AU		max. Earth dist.	10716 Aug 01 20:14	18°♄25'55 10.71543 AU	
morning rise	10710 Jun 07 15:57	7°♄52'31		morning rise	10716 Aug 18 12:42	20°♄26'58	
retrograde	10710 Sep 17 13:17	15°♄14'47		retrograde	10716 Nov 30 19:55	27°♄58'49	
opposition	10710 Nov 26 07:11	11°♄53'54 -2°06'10		opposition	10717 Feb 08 22:05	24°♄35'30 -1°37'26	
min. Earth dist.	10710 Nov 26 03:50	11°♄54'32 8.73446 AU		min. Earth dist.	10717 Feb 08 13:32	24°♄37'08 8.70118 AU	
direct	10711 Feb 04 05:29	8°♄32'31		direct	10717 Apr 18 11:33	21°♄15'31	
evening set	10711 May 17 08:13	15°♄54'29		evening set	10717 Jul 27 20:59	28°♄33'15	
					10717 Aug 08 20:08	0°♄	
conjunction	10711 Jun 03 02:24	17°♄56'15 -1°47'22		conjunction	10717 Aug 13 23:27	0°♄37'36 -1°10'02	
minimum elong	10711 Jun 03 02:22	17°♄56'14 1°47'54		minimum elong	10717 Aug 13 23:29	0°♄37'37 1°10'21	
max. Earth dist.	10711 Jun 03 07:04	17°♄57'40 10.74339 AU		max. Earth dist.	10717 Aug 14 09:46	0°♄40'45 10.68369 AU	
morning rise	10711 Jun 19 20:45	19°♄58'03		morning rise	10717 Aug 31 05:03	2°♄42'56	
retrograde	10711 Sep 30 03:54	27°♄20'51		retrograde	10717 Dec 13 19:15	10°♄17'23	
opposition	10711 Dec 09 02:49	23°♄59'44 -2°16'27		opposition	10718 Feb 21 17:03	6°♄53'30 -1°13'37	
min. Earth dist.	10711 Dec 08 21:25	24°♄00'45 8.75246 AU		min. Earth dist.	10718 Feb 21 08:48	6°♄55'05 8.66548 AU	
direct	10712 Feb 16 21:13	20°♄38'58		direct	10718 Apr 30 23:47	3°♄33'09	
evening set	10712 May 28 13:07	27°♄58'32		evening set	10718 Aug 09 11:09	10°♄52'48	
conjunction	10712 Jun 14 06:58	29°♄59'58 -1°53'20		conjunction	10718 Aug 26 16:37	12°♄58'24 -0°49'06	
minimum elong	10712 Jun 14 06:57	29°♄59'58 1°53'53		minimum elong	10718 Aug 26 16:39	12°♄58'25 0°49'18	
	10712 Jun 14 07:03	0°♄		max. Earth dist.	10718 Aug 27 01:31	13°♄01'08 10.64486 AU	
max. Earth dist.	10712 Jun 14 14:01	0°♄02'07 10.75658 AU		morning rise	10718 Sep 13 01:30	15°♄05'02	
morning rise	10712 Jul 01 01:27	2°♄01'38		retrograde	10718 Dec 26 20:28	22°♄42'17	
retrograde	10712 Oct 11 19:01	9°♄25'30		opposition	10719 Mar 06 13:18	19°♄17'50 -0°46'10	
opposition	10712 Dec 20 21:29	6°♄04'03 -2°20'41		min. Earth dist.	10719 Mar 06 06:29	19°♄19'10 8.62317 AU	
min. Earth dist.	10712 Dec 20 14:23	6°♄05'24 8.76102 AU		direct	10719 May 13 14:40	15°♄56'56	
direct	10713 Feb 28 11:27	2°♄43'45		evening set	10719 Aug 22 05:35	23°♄19'19	
evening set	10713 Jun 09 17:18	10°♄01'33					
conjunction	10713 Jun 26 11:30	12°♄03'00 -1°54'17		conjunction	10719 Sep 08 14:08	25°♄26'18 -0°25'41	
minimum elong	10713 Jun 26 11:31	12°♄03'00 1°54'50		minimum elong	10719 Sep 08 14:09	25°♄26'18 0°25'47	
max. Earth dist.	10713 Jun 26 20:06	12°♄05'37 10.76024 AU		max. Earth dist.	10719 Sep 08 20:51	25°♄28'21 10.59997 AU	
morning rise	10713 Jul 13 07:00	14°♄04'51		morning rise	10719 Sep 26 02:15	27°♄34'19	
retrograde	10713 Oct 24 11:58	21°♄30'11			10719 Oct 17 02:56	0°♄	
opposition	10714 Jan 02 15:41	18°♄08'22 -2°18'43		retrograde	10720 Jan 09 00:47	5°♄14'29	
min. Earth dist.	10714 Jan 02 07:52	18°♄09'51 8.75982 AU		opposition	10720 Mar 18 10:56	1°♄49'32 -0°16'15	
direct	10714 Mar 12 23:19	14°♄48'23		min. Earth dist.	10720 Mar 18 06:01	1°♄50'30 8.57578 AU	
evening set	10714 Jun 21 21:44	22°♄05'05			10720 Apr 12 04:17	30°♄8	
				direct	10720 May 25 07:11	28°♄27'57	
conjunction	10714 Jul 08 16:55	24°♄06'50 -1°50'11			10720 Jul 06 12:42	0°♄	
minimum elong	10714 Jul 08 16:56	24°♄06'51 1°50'43		evening set	10720 Sep 03 05:12	5°♄53'54	
max. Earth dist.	10714 Jul 09 01:43	24°♄09'31 10.75430 AU					
morning rise	10714 Jul 25 14:13	26°♄09'12		conjunction	10720 Sep 20 16:44	8°♄02'15 -0°00'51	
	10714 Aug 29 16:26	0°♄		minimum elong	10720 Sep 20 16:44	8°♄02'16 0°00'48	

behind sun begin	10720 Sep 20 09:32	8° <u>♂</u> 00'04		minimum elong	10726 Dec 11 02:29	26° <u>♂</u> 17'37	1°51'44
behind sun end	10720 Sep 20 23:55	8° <u>♂</u> 04'27		max. Earth dist.	10726 Dec 10 19:48	26° <u>♂</u> 15'31	10.33251 AU
max. Earth dist.	10720 Sep 20 21:33	8° <u>♂</u> 03'42	10.55117 AU	morning rise	10726 Dec 28 20:46	28° <u>♂</u> 30'53	
asc. node	10720 Oct 03 01:20	9° <u>♂</u> 33'20			10727 Jan 10 03:35	0° <u>♂</u>	
morning rise	10720 Oct 08 07:38	10° <u>♂</u> 11'38		retrograde	10727 Apr 11 08:18	6° <u>♂</u> 21'04	
retrograde	10721 Jan 21 06:29	17° <u>♂</u> 54'42		opposition	10727 Jun 17 19:17	2° <u>♂</u> 55'33	2°20'32
opposition	10721 Mar 31 10:05	14° <u>♂</u> 29'18	0°14'48	min. Earth dist.	10727 Jun 18 00:36	2° <u>♂</u> 54'29	8.32968 AU
min. Earth dist.	10721 Mar 31 06:39	14° <u>♂</u> 29'58	8.52615 AU		10727 Jul 31 08:44	30° <u>♂</u> ♂	
direct	10721 Jun 07 03:22	11° <u>♂</u> 06'55		direct	10727 Aug 24 20:38	29° <u>♂</u> 28'20	
evening set	10721 Sep 16 10:10	18° <u>♂</u> 37'03			10727 Sep 18 06:11	0° <u>♂</u>	
				evening set	10727 Dec 07 09:35	7° <u>♂</u> 22'26	
conjunction	10721 Oct 04 00:21	20° <u>♂</u> 46'45	0°24'20				
minimum elong	10721 Oct 04 00:20	20° <u>♂</u> 46'45	0°24'30	conjunction	10727 Dec 25 03:59	9° <u>♂</u> 35'51	1°53'45
max. Earth dist.	10721 Oct 04 04:03	20° <u>♂</u> 47'53	10.50154 AU	minimum elong	10727 Dec 25 03:59	9° <u>♂</u> 35'51	1°54'19
morning rise	10721 Oct 21 17:22	22° <u>♂</u> 57'20		max. Earth dist.	10727 Dec 24 20:20	9° <u>♂</u> 33'26	10.32687 AU
	10722 Jan 05 15:38	0° <u>♂</u>		morning rise	10728 Jan 11 20:56	11° <u>♂</u> 48'53	
retrograde	10722 Feb 03 14:43	0° <u>♂</u> 43'07		retrograde	10728 Apr 23 21:20	19° <u>♂</u> 37'30	
	10722 Mar 04 18:46	30° <u>♂</u> ♂		opposition	10728 Jun 30 05:22	16° <u>♂</u> 12'27	2°19'58
opposition	10722 Apr 13 11:12	27° <u>♂</u> 17'20	0°45'28	min. Earth dist.	10728 Jun 30 11:14	16° <u>♂</u> 11'16	8.32963 AU
min. Earth dist.	10722 Apr 13 08:39	27° <u>♂</u> 17'50	8.47739 AU	direct	10728 Sep 06 12:36	12° <u>♂</u> 44'53	
direct	10722 Jun 20 02:56	23° <u>♂</u> 54'06		evening set	10728 Dec 20 10:45	20° <u>♂</u> 40'22	
	10722 Sep 17 10:26	0° <u>♂</u>					
evening set	10722 Sep 29 20:23	1° <u>♂</u> 28'45		conjunction	10729 Jan 07 04:21	22° <u>♂</u> 53'32	1°50'14
				minimum elong	10729 Jan 07 04:22	22° <u>♂</u> 53'32	1°50'46
conjunction	10722 Oct 17 12:40	3° <u>♂</u> 39'39	0°48'30	max. Earth dist.	10729 Jan 06 20:06	22° <u>♂</u> 50'56	10.33241 AU
minimum elong	10722 Oct 17 12:38	3° <u>♂</u> 39'38	0°48'46	morning rise	10729 Jan 24 19:43	25° <u>♂</u> 06'07	
max. Earth dist.	10722 Oct 17 14:54	3° <u>♂</u> 40'20	10.45409 AU		10729 Mar 10 03:25	0° <u>♂</u>	
morning rise	10722 Nov 04 07:09	5° <u>♂</u> 51'16		retrograde	10729 May 07 09:12	2° <u>♂</u> 52'26	
retrograde	10723 Feb 17 02:49	13° <u>♂</u> 39'22			10729 Jul 06 23:31	30° <u>♂</u> ♂	
opposition	10723 Apr 26 14:16	10° <u>♂</u> 13'18	1°14'11	opposition	10729 Jul 13 15:51	29° <u>♂</u> 27'59	2°11'55
min. Earth dist.	10723 Apr 26 13:00	10° <u>♂</u> 13'33	8.43231 AU	min. Earth dist.	10729 Jul 13 22:28	29° <u>♂</u> 26'40	8.34059 AU
direct	10723 Jul 03 03:53	6° <u>♂</u> 49'09		direct	10729 Sep 20 05:01	26° <u>♂</u> 00'17	
evening set	10723 Oct 13 11:52	14° <u>♂</u> 28'31			10729 Nov 30 00:49	0° <u>♂</u>	
	10723 Oct 17 18:30	15° <u>♂</u>		evening set	10730 Jan 03 10:07	3° <u>♂</u> 55'57	
conjunction	10723 Oct 31 05:35	16° <u>♂</u> 40'24	1°10'24	conjunction	10730 Jan 21 02:33	6° <u>♂</u> 08'40	1°40'52
minimum elong	10723 Oct 31 05:33	16° <u>♂</u> 40'23	1°10'47	minimum elong	10730 Jan 21 02:35	6° <u>♂</u> 08'41	1°41'22
max. Earth dist.	10723 Oct 31 05:34	16° <u>♂</u> 40'24	10.41146 AU	max. Earth dist.	10730 Jan 20 17:25	6° <u>♂</u> 05'48	10.34897 AU
morning rise	10723 Nov 18 00:55	18° <u>♂</u> 52'50		morning rise	10730 Feb 07 16:17	8° <u>♂</u> 20'38	
retrograde	10724 Mar 01 15:56	26° <u>♂</u> 42'36			10730 Apr 16 04:03	15° <u>♂</u>	
opposition	10724 May 08 19:07	23° <u>♂</u> 16'27	1°39'23	retrograde	10730 May 20 19:42	16° <u>♂</u> 04'02	
min. Earth dist.	10724 May 08 19:47	23° <u>♂</u> 16'19	8.39326 AU		10730 Jun 24 20:43	15° <u>♂</u> ♂	
direct	10724 Jul 15 08:56	19° <u>♂</u> 51'22		opposition	10730 Jul 27 02:10	12° <u>♂</u> 40'16	1°56'54
evening set	10724 Oct 26 07:42	27° <u>♂</u> 35'22		min. Earth dist.	10730 Jul 27 09:35	12° <u>♂</u> 38'47	8.36211 AU
				direct	10730 Oct 03 21:01	9° <u>♂</u> 12'40	
conjunction	10724 Nov 13 02:13	29° <u>♂</u> 48'00	1°28'50		10730 Dec 30 11:11	15° <u>♂</u>	
minimum elong	10724 Nov 13 02:11	29° <u>♂</u> 47'59	1°29'18	evening set	10731 Jan 17 06:36	17° <u>♂</u> 07'24	
max. Earth dist.	10724 Nov 12 23:18	29° <u>♂</u> 47'05	10.37585 AU				
	10724 Nov 14 16:34	0° <u>♂</u> ♂		conjunction	10731 Feb 03 21:34	19° <u>♂</u> 19'27	1°26'14
morning rise	10724 Nov 30 21:46	2° <u>♂</u> 00'58		minimum elong	10731 Feb 03 21:36	19° <u>♂</u> 19'28	1°26'39
retrograde	10725 Mar 15 04:58	9° <u>♂</u> 51'42		max. Earth dist.	10731 Feb 03 11:46	19° <u>♂</u> 16'23	10.37569 AU
opposition	10725 May 22 01:52	6° <u>♂</u> 25'38	1°59'35	morning rise	10731 Feb 21 09:35	21° <u>♂</u> 30'38	
min. Earth dist.	10725 May 22 04:45	6° <u>♂</u> 25'03	8.36221 AU	retrograde	10731 Jun 03 02:42	29° <u>♂</u> 10'44	
direct	10725 Jul 28 18:22	2° <u>♂</u> 59'42		opposition	10731 Aug 09 12:01	25° <u>♂</u> 47'42	1°35'51
evening set	10725 Nov 09 06:38	10° <u>♂</u> 47'52		min. Earth dist.	10731 Aug 09 19:41	25° <u>♂</u> 46'11	8.39302 AU
				direct	10731 Oct 17 14:08	22° <u>♂</u> 20'26	
conjunction	10725 Nov 27 01:27	13° <u>♂</u> 00'59	1°42'42		10732 Jan 29 04:09	0° <u>♂</u> ♂	
minimum elong	10725 Nov 27 01:25	13° <u>♂</u> 00'59	1°43'14	evening set	10732 Jan 30 23:21	0° <u>♂</u> ♂13'13	
max. Earth dist.	10725 Nov 26 20:15	12° <u>♂</u> 59'22	10.34908 AU				
morning rise	10725 Dec 14 20:36	15° <u>♂</u> 14'14		conjunction	10732 Feb 17 12:32	2° <u>♂</u> 24'23	1°07'12
retrograde	10726 Mar 28 18:17	23° <u>♂</u> 05'09		minimum elong	10732 Feb 17 12:34	2° <u>♂</u> 24'24	1°07'31
opposition	10726 Jun 04 10:05	19° <u>♂</u> 39'17	2°13'36	max. Earth dist.	10732 Feb 17 02:52	2° <u>♂</u> 21'21	10.41104 AU
min. Earth dist.	10726 Jun 04 14:28	19° <u>♂</u> 38'24	8.34068 AU	morning rise	10732 Mar 05 22:35	4° <u>♂</u> 34'36	
direct	10726 Aug 11 06:36	16° <u>♂</u> 12'38		retrograde	10732 Jun 15 06:28	12° <u>♂</u> 11'17	
evening set	10726 Nov 23 07:43	24° <u>♂</u> 04'14		opposition	10732 Aug 21 20:54	8° <u>♂</u> 48'58	1°10'01
				min. Earth dist.	10732 Aug 22 03:49	8° <u>♂</u> 47'36	8.43167 AU
conjunction	10726 Dec 11 02:30	26° <u>♂</u> 17'38	1°51'11	direct	10732 Oct 30 06:21	5° <u>♂</u> 22'17	

evening set	10733 Feb 12 11:47	13° X 12'12		opposition	10738 Nov 07 18:19	24° S 18'53	-1°40'44
				min. Earth dist.	10738 Nov 07 16:45	24° S 19'11	8.70342 AU
conjunction	10733 Mar 01 22:57	15° X 22'19	0°44'53	direct	10739 Jan 16 19:47	20° S 57'03	
minimum elong	10733 Mar 01 22:59	15° X 22'19	0°45'06	evening set	10739 Apr 29 16:27	28° S 23'30	
max. Earth dist.	10733 Mar 01 14:39	15° X 19'43	10.45318 AU		10739 May 12 22:56	0° II	
morning rise	10733 Mar 19 06:49	17° X 31'26					
retrograde	10733 Jun 28 09:21	25° X 04'48		conjunction	10739 May 16 12:42	0° II 26'13	-1°29'54
opposition	10733 Sep 04 04:34	21° X 43'07	0°40'53	minimum elong	10739 May 16 12:40	0° II 26'13	1°30'23
min. Earth dist.	10733 Sep 04 10:01	21° X 42'03	8.47614 AU	max. Earth dist.	10739 May 16 15:04	0° II 26'57	10.71831 AU
direct	10733 Nov 12 19:26	18° X 17'10		morning rise	10739 Jun 02 07:51	2° II 28'40	
evening set	10734 Feb 25 19:35	26° X 03'32		retrograde	10739 Sep 12 02:48	9° II 50'55	
				opposition	10739 Nov 20 16:03	6° II 30'37	-1°59'10
conjunction	10734 Mar 15 04:29	28° X 12'28	0°20'31	min. Earth dist.	10739 Nov 20 13:01	6° II 31'12	8.73238 AU
minimum elong	10734 Mar 15 04:30	28° X 12'28	0°20'36	direct	10740 Jan 29 15:16	3° II 09'28	
max. Earth dist.	10734 Mar 14 22:14	28° X 10'31	10.49990 AU	evening set	10740 May 11 00:20	10° II 32'47	
	10734 Mar 29 15:15	0° Y					
morning rise	10734 Apr 01 09:58	0° Y 20'24		conjunction	10740 May 27 19:03	12° II 34'47	-1°42'46
retrograde	10734 Jul 11 10:24	7° Y 50'37		minimum elong	10740 May 27 19:02	12° II 34'47	1°43'17
opposition	10734 Sep 17 10:48	4° Y 29'31	0°10'02	max. Earth dist.	10740 May 27 22:42	12° II 35'54	10.74192 AU
min. Earth dist.	10734 Sep 17 15:00	4° Y 28'42	8.52410 AU	morning rise	10740 Jun 13 13:24	14° II 36'43	
direct	10734 Nov 26 04:44	1° Y 04'23		retrograde	10740 Sep 23 18:13	21° II 59'20	
desc. node	10735 Jan 16 12:45	3° Y 12'29		opposition	10740 Dec 02 12:39	18° II 38'48	-2°12'11
evening set	10735 Mar 10 22:52	8° Y 46'50		min. Earth dist.	10740 Dec 02 08:59	18° II 39'29	8.75108 AU
				direct	10741 Feb 10 07:17	15° II 18'10	
conjunction	10735 Mar 28 05:07	10° Y 54'26	-0°04'43	evening set	10741 May 23 06:29	22° II 39'00	
minimum elong	10735 Mar 28 05:06	10° Y 54'26	0°04'47				
behind sun begin	10735 Mar 27 22:09	10° Y 52'18		conjunction	10741 Jun 09 00:20	24° II 40'34	-1°51'01
behind sun end	10735 Mar 28 12:03	10° Y 56'34		minimum elong	10741 Jun 09 00:19	24° II 40'34	1°51'34
max. Earth dist.	10735 Mar 28 00:32	10° Y 53'03	10.54879 AU	max. Earth dist.	10741 Jun 09 04:32	24° II 41'51	10.75522 AU
morning rise	10735 Apr 14 08:08	13° Y 01'08		morning rise	10741 Jun 25 18:43	26° II 42'18	
retrograde	10735 Jul 24 07:05	20° Y 28'36			10741 Jul 25 06:12	0° S	
opposition	10735 Sep 30 15:23	17° Y 07'58	-0°20'57	retrograde	10741 Oct 06 07:47	4° S 05'50	
min. Earth dist.	10735 Sep 30 18:39	17° Y 07'21	8.57325 AU	opposition	10741 Dec 15 08:08	0° S 44'54	-2°19'17
direct	10735 Dec 09 13:11	13° Y 43'42		min. Earth dist.	10741 Dec 15 03:46	0° S 45'44	8.75938 AU
evening set	10736 Mar 22 21:32	21° Y 22'00			10741 Dec 25 07:47	30° R II	
				direct	10742 Feb 22 23:07	27° II 24'37	
conjunction	10736 Apr 09 00:56	23° Y 28'14	-0°29'22		10742 Apr 20 17:10	0° S	
minimum elong	10736 Apr 09 00:54	23° Y 28'14	0°29'33	evening set	10742 Jun 04 11:29	4° S 43'34	
max. Earth dist.	10736 Apr 08 21:33	23° Y 27'12	10.59756 AU				
morning rise	10736 Apr 26 01:39	25° Y 33'42		conjunction	10742 Jun 21 05:20	6° S 45'02	-1°54'19
	10736 Jun 05 18:01	0° S		minimum elong	10742 Jun 21 05:19	6° S 45'02	1°54'53
retrograde	10736 Aug 05 02:12	2° S 58'57		max. Earth dist.	10742 Jun 21 10:45	6° S 46'41	10.75832 AU
	10736 Oct 08 02:32	30° R Y		morning rise	10742 Jul 08 00:24	8° S 46'50	
opposition	10736 Oct 12 18:18	29° Y 38'39	-0°50'36	retrograde	10742 Oct 18 23:51	16° S 11'48	
min. Earth dist.	10736 Oct 12 20:29	29° Y 38'13	8.62126 AU	opposition	10742 Dec 28 03:06	12° S 50'19	-2°20'15
direct	10736 Dec 21 18:29	26° Y 15'14		min. Earth dist.	10742 Dec 27 21:27	12° S 51'23	8.75749 AU
	10737 Mar 01 07:09	0° S		direct	10743 Mar 07 13:58	9° S 30'13	
evening set	10737 Apr 04 15:36	3° S 49'20		evening set	10743 Jun 16 16:00	16° S 47'49	
conjunction	10737 Apr 21 16:15	5° S 54'15	-0°52'27	conjunction	10743 Jul 03 10:44	18° S 49'30	-1°52'35
minimum elong	10737 Apr 21 16:14	5° S 54'15	0°52'45	minimum elong	10743 Jul 03 10:45	18° S 49'30	1°53'08
max. Earth dist.	10737 Apr 21 14:17	5° S 53'39	10.64383 AU	max. Earth dist.	10743 Jul 03 18:15	18° S 51'47	10.75151 AU
morning rise	10737 May 08 14:54	7° S 58'34		morning rise	10743 Jul 20 07:08	20° S 51'42	
	10737 Jul 28 03:08	15° S		retrograde	10743 Oct 31 16:55	28° S 18'29	
retrograde	10737 Aug 17 19:20	15° S 22'09		opposition	10744 Jan 09 21:39	24° S 56'19	-2°15'00
	10737 Sep 07 17:13	15° R S		min. Earth dist.	10744 Jan 09 14:26	24° S 57'41	8.74579 AU
opposition	10737 Oct 25 19:15	12° S 01'59	-1°17'35	direct	10744 Mar 19 02:32	21° S 36'15	
min. Earth dist.	10737 Oct 25 19:37	12° S 01'55	8.66556 AU	evening set	10744 Jun 27 21:17	28° S 53'11	
direct	10738 Jan 03 20:08	8° S 39'25			10744 Jul 07 03:22	0° S	
	10738 Apr 07 10:25	15° S					
evening set	10738 Apr 17 05:45	16° S 09'29		conjunction	10744 Jul 14 17:35	0° S 55'24	-1°45'50
				minimum elong	10744 Jul 14 17:37	0° S 55'24	1°46'21
conjunction	10738 May 04 04:00	18° S 13'13	-1°12'54	max. Earth dist.	10744 Jul 15 02:19	0° S 58'03	10.73527 AU
minimum elong	10738 May 04 03:58	18° S 13'12	1°13'18	morning rise	10744 Jul 31 16:03	2° S 58'17	
max. Earth dist.	10738 May 04 04:11	18° S 13'16	10.68495 AU	retrograde	10744 Nov 12 11:26	10° S 27'11	
morning rise	10738 May 21 00:42	20° S 16'30		opposition	10745 Jan 21 15:56	7° S 04'19	-2°03'44
retrograde	10738 Aug 30 10:23	27° S 39'03		min. Earth dist.	10745 Jan 21 08:16	7° S 05'47	8.72492 AU

direct	10745 Mar 31 14:34	3°♈44'06	retrograde	10751 Jan 28 23:40	25°♏12'11	
evening set	10745 Jul 10 04:10	11°♈01'08	opposition	10751 Apr 07 23:03	21°♏45'56	0°31'51
			min. Earth dist.	10751 Apr 07 19:29	21°♏46'38	8.47826 AU
conjunction	10745 Jul 27 02:34	13°♈04'09 -1°34'20	direct	10751 Jun 14 14:33	18°♏22'33	
minimum elong	10745 Jul 27 02:36	13°♈04'10 1°34'47	evening set	10751 Sep 24 03:38	25°♏55'58	
max. Earth dist.	10745 Jul 27 11:13	13°♈06'47 10.71039 AU				
	10745 Aug 12 01:01	15°♈	conjunction	10751 Oct 11 18:58	28°♏06'35	0°37'51
morning rise	10745 Aug 13 03:48	15°♈08'00	minimum elong	10751 Oct 11 18:56	28°♏06'35	0°38'05
retrograde	10745 Nov 25 08:01	22°♈39'19	max. Earth dist.	10751 Oct 11 21:52	28°♏07'29	10.45595 AU
opposition	10746 Feb 03 10:36	19°♈15'45 -1°46'52		10751 Oct 27 01:54	0°♏	
min. Earth dist.	10746 Feb 03 03:16	19°♈17'09 8.69578 AU	morning rise	10751 Oct 29 13:05	0°♏18'02	
direct	10746 Apr 13 02:09	15°♈55'15	retrograde	10752 Feb 11 10:38	8°♏06'01	
evening set	10746 Jul 22 13:22	23°♈13'09	opposition	10752 Apr 20 01:51	4°♏39'38	1°01'41
			min. Earth dist.	10752 Apr 19 23:58	4°♏40'01	8.43481 AU
conjunction	10746 Aug 08 14:23	25°♈17'12 -1°18'30	direct	10752 Jun 26 15:12	1°♏15'31	
minimum elong	10746 Aug 08 14:25	25°♈17'12 1°18'53	evening set	10752 Oct 06 17:23	8°♏53'37	
max. Earth dist.	10746 Aug 08 22:37	25°♈19'43 10.67785 AU				
morning rise	10746 Aug 25 18:46	27°♈22'12	conjunction	10752 Oct 24 10:30	11°♏05'17	1°00'56
	10746 Sep 17 19:21	0°♏	minimum elong	10752 Oct 24 10:28	11°♏05'17	1°01'17
retrograde	10746 Dec 08 05:05	4°♏56'13	max. Earth dist.	10752 Oct 24 11:44	11°♏05'40	10.41467 AU
opposition	10747 Feb 16 05:52	1°♏31'57 -1°25'00	morning rise	10752 Nov 11 05:43	13°♏17'38	
min. Earth dist.	10747 Feb 15 23:01	1°♏33'16 8.65957 AU		10752 Nov 25 12:59	15°♏	
	10747 Mar 08 21:22	30°♏	retrograde	10753 Feb 23 22:45	21°♏07'34	
direct	10747 Apr 25 15:48	28°♈11'04	opposition	10753 May 03 06:29	17°♏41'13	1°28'38
	10747 Jun 11 00:06	0°♏	min. Earth dist.	10753 May 03 05:51	17°♏41'21	8.39677 AU
evening set	10747 Aug 04 01:55	5°♏30'37		10753 Jun 11 01:37	15°♏	
			direct	10753 Jul 09 20:27	14°♏16'24	
conjunction	10747 Aug 21 06:03	7°♏35'54 -0°58'58		10753 Aug 07 09:46	15°♏	
minimum elong	10747 Aug 21 06:05	7°♏35'55 0°59'14	evening set	10753 Oct 20 11:54	21°♏59'11	
max. Earth dist.	10747 Aug 21 14:28	7°♏38'28 10.63896 AU				
morning rise	10747 Sep 07 13:40	9°♏42'13	conjunction	10753 Nov 07 06:14	24°♏11'42	1°21'04
retrograde	10747 Dec 21 05:08	17°♏19'06	minimum elong	10753 Nov 07 06:12	24°♏11'41	1°21'30
opposition	10748 Feb 29 01:56	13°♏54'10 -0°59'01	max. Earth dist.	10753 Nov 07 06:10	24°♏11'41	10.37982 AU
min. Earth dist.	10748 Feb 28 19:07	13°♏55'29 8.61780 AU	morning rise	10753 Nov 25 01:48	26°♏24'39	
direct	10748 May 07 07:07	10°♏32'47		10753 Dec 26 07:38	0°♏	
evening set	10748 Aug 15 18:40	17°♏54'46	retrograde	10754 Mar 09 12:38	4°♏15'56	
			opposition	10754 May 16 13:07	0°♏49'46	1°51'13
conjunction	10748 Sep 02 02:05	20°♏01'25 -0°36'32	min. Earth dist.	10754 May 16 13:27	0°♏49'42	8.36624 AU
minimum elong	10748 Sep 02 02:06	20°♏01'26 0°36'40		10754 May 26 23:52	30°♏	
max. Earth dist.	10748 Sep 02 10:23	20°♏03'58 10.59525 AU	direct	10754 Jul 23 04:26	27°♏24'19	
morning rise	10748 Sep 19 12:49	22°♏09'06		10754 Sep 16 14:34	0°♏	
retrograde	10749 Jan 02 09:42	29°♏48'56	evening set	10754 Nov 03 10:18	5°♏11'26	
opposition	10749 Mar 12 23:16	26°♏23'26 -0°30'00				
min. Earth dist.	10749 Mar 12 16:45	26°♏24'42 8.57217 AU	conjunction	10754 Nov 21 05:15	7°♏24'33	1°37'04
direct	10749 May 19 22:23	23°♏01'28	minimum elong	10754 Nov 21 05:13	7°♏24'32	1°37'34
	10749 Aug 24 23:28	0°♏	max. Earth dist.	10754 Nov 21 03:34	7°♏24'01	10.35334 AU
evening set	10749 Aug 28 16:18	0°♏26'38	morning rise	10754 Dec 09 00:35	9°♏37'51	
			retrograde	10755 Mar 23 04:25	17°♏29'37	
conjunction	10749 Sep 15 02:42	2°♏34'41 -0°12'10	opposition	10755 May 29 21:28	14°♏03'49	2°08'05
minimum elong	10749 Sep 15 02:42	2°♏34'41 0°12'11	min. Earth dist.	10755 May 29 23:20	14°♏03'26	8.34478 AU
behind sun begin	10749 Sep 14 21:54	2°♏33'13	direct	10755 Aug 05 14:26	10°♏37'47	
behind sun end	10749 Sep 15 07:30	2°♏36'09	evening set	10755 Nov 17 11:41	18°♏28'37	
max. Earth dist.	10749 Sep 15 09:56	2°♏36'54 10.54860 AU				
morning rise	10749 Oct 02 16:19	4°♏43'43	conjunction	10755 Dec 05 06:38	20°♏42'03	1°48'00
retrograde	10750 Jan 15 15:29	12°♏26'29	minimum elong	10755 Dec 05 06:36	20°♏42'03	1°48'32
asc. node	10750 Mar 16 16:53	9°♏43'46	max. Earth dist.	10755 Dec 05 02:33	20°♏40'46	10.33656 AU
opposition	10750 Mar 25 22:12	9°♏00'32 0°00'46	morning rise	10755 Dec 23 01:14	22°♏55'26	
min. Earth dist.	10750 Mar 25 16:45	9°♏01'37 8.52483 AU		10756 Mar 06 05:08	0°♏	
direct	10750 Jun 01 16:44	5°♏37'53	retrograde	10756 Apr 04 20:33	0°♏46'43	
evening set	10750 Sep 10 19:16	13°♏06'57		10756 May 04 13:58	30°♏	
			opposition	10756 Jun 11 07:04	27°♏21'23	2°18'10
conjunction	10750 Sep 28 08:19	15°♏16'19 0°13'05	min. Earth dist.	10756 Jun 11 10:55	27°♏20'36	8.33341 AU
minimum elong	10750 Sep 28 08:18	15°♏16'19 0°13'12	direct	10756 Aug 18 03:26	23°♏54'50	
behind sun begin	10750 Sep 28 04:08	15°♏15'03		10756 Nov 15 13:28	0°♏	
behind sun end	10750 Sep 28 12:28	15°♏17'36	evening set	10756 Nov 30 14:18	1°♏48'29	
max. Earth dist.	10750 Sep 28 13:21	15°♏17'52 10.50136 AU				
morning rise	10750 Oct 16 00:29	17°♏26'39	conjunction	10756 Dec 18 08:49	4°♏01'59	1°53'11

minimum elong	10756 Dec 18 08:49	4°♊01'58	1°53'44	retrograde	10763 Jul 06 07:00	2°♎42'41	
max. Earth dist.	10756 Dec 18 02:20	3°♊59'56	10.33024 AU		10763 Sep 03 20:49	30°♎	
morning rise	10757 Jan 05 02:22	6°♊15'12		opposition	10763 Sep 12 04:35	29°♎21'20	0°23'04
retrograde	10757 Apr 18 09:51	14°♊05'03		min. Earth dist.	10763 Sep 12 11:03	29°♎20'04	8.49469 AU
opposition	10757 Jun 24 17:40	10°♊40'16	2°20'53	direct	10763 Nov 20 20:39	25°♎55'43	
min. Earth dist.	10757 Jun 24 23:15	10°♊39'09	8.33238 AU		10764 Feb 01 08:21	0°♎	
direct	10757 Aug 31 20:41	7°♊13'20		evening set	10764 Mar 04 18:41	3°♎40'32	
evening set	10757 Dec 14 16:31	15°♊08'40					
conjunction	10758 Jan 01 10:20	17°♊21'58	1°52'18	conjunction	10764 Mar 22 02:04	5°♎48'51	0°05'56
minimum elong	10758 Jan 01 10:20	17°♊21'58	1°52'51	minimum elong	10764 Mar 22 02:03	5°♎48'51	0°05'56
max. Earth dist.	10758 Jan 01 01:52	17°♊19'18	10.33416 AU	behind sun begin	10764 Mar 21 19:15	5°♎46'46	
morning rise	10758 Jan 19 02:34	19°♊34'48		behind sun end	10764 Mar 22 08:51	5°♎50'57	
retrograde	10758 May 01 21:39	27°♊22'29		max. Earth dist.	10764 Mar 21 18:46	5°♎46'37	10.51733 AU
opposition	10758 Jul 08 04:33	23°♊58'16	2°16'01	morning rise	10764 Apr 08 06:23	7°♎56'16	
min. Earth dist.	10758 Jul 08 11:23	23°♊56'54	8.34090 AU	desc. node	10764 Jun 18 17:53	14°♎39'44	
direct	10758 Sep 14 14:31	20°♊31'06		retrograde	10764 Jul 18 04:34	15°♎25'28	
evening set	10758 Dec 28 17:23	28°♊27'01		opposition	10764 Sep 24 10:26	12°♎04'25	-0°08'07
	10759 Jan 10 03:30	0°♊		min. Earth dist.	10764 Sep 24 15:02	12°♎03'31	8.54018 AU
				direct	10764 Dec 03 08:02	8°♎39'27	
				evening set	10765 Mar 17 19:39	16°♎20'09	
conjunction	10759 Jan 15 10:18	0°♊39'58	1°45'25	conjunction	10765 Apr 04 00:25	18°♎27'09	-0°19'13
minimum elong	10759 Jan 15 10:20	0°♊39'58	1°45'55	minimum elong	10765 Apr 04 00:25	18°♎27'08	0°19'21
max. Earth dist.	10759 Jan 15 00:38	0°♊36'55	10.34706 AU	max. Earth dist.	10765 Apr 03 19:39	18°♎25'40	10.56328 AU
morning rise	10759 Feb 02 00:57	2°♊52'13		morning rise	10765 Apr 21 02:19	20°♎33'19	
retrograde	10759 May 15 09:00	10°♊37'11		retrograde	10765 Jul 31 01:38	28°♎00'02	
opposition	10759 Jul 21 15:17	7°♊13'37	2°03'56	opposition	10765 Oct 07 14:18	24°♎39'10	-0°38'33
min. Earth dist.	10759 Jul 21 22:36	7°♊12'09	8.35756 AU	min. Earth dist.	10765 Oct 07 16:46	24°♎38'41	8.58605 AU
direct	10759 Sep 28 07:39	3°♊46'27		direct	10765 Dec 16 14:41	21°♎14'56	
evening set	10760 Jan 11 15:50	11°♊41'58		evening set	10766 Mar 30 16:00	28°♎51'22	
					10766 Apr 09 01:03	0°♎	
conjunction	10760 Jan 29 07:34	13°♊54'22	1°32'57	conjunction	10766 Apr 16 18:07	0°♎57'04	-0°43'08
minimum elong	10760 Jan 29 07:37	13°♊54'23	1°33'24	minimum elong	10766 Apr 16 18:05	0°♎57'03	0°43'23
max. Earth dist.	10760 Jan 28 21:41	13°♊51'16	10.36782 AU	max. Earth dist.	10766 Apr 16 15:59	0°♎56'24	10.60833 AU
	10760 Feb 07 00:19	15°♊		morning rise	10766 May 03 17:38	3°♎02'02	
morning rise	10760 Feb 15 20:23	16°♊05'56		retrograde	10766 Aug 12 20:27	10°♎26'48	
retrograde	10760 May 27 19:04	23°♊47'53		opposition	10766 Oct 20 16:22	7°♎06'02	-1°06'50
opposition	10760 Aug 03 01:58	20°♊24'57	1°45'20	min. Earth dist.	10766 Oct 20 17:15	7°♎05'51	8.63006 AU
min. Earth dist.	10760 Aug 03 09:25	20°♊23'29	8.38185 AU	direct	10766 Dec 29 17:17	3°♎42'32	
direct	10760 Oct 11 00:21	16°♊57'59		evening set	10767 Apr 12 08:06	11°♎14'52	
evening set	10761 Jan 24 10:52	24°♊52'05					
conjunction	10761 Feb 11 01:03	27°♊03'45	1°15'40	conjunction	10767 Apr 29 07:30	13°♎19'17	-1°04'49
minimum elong	10761 Feb 11 01:05	27°♊03'46	1°16'01	minimum elong	10767 Apr 29 07:28	13°♎19'16	1°05'12
max. Earth dist.	10761 Feb 10 15:27	27°♊00'44	10.39622 AU	max. Earth dist.	10767 Apr 29 07:07	13°♎19'09	10.65034 AU
morning rise	10761 Feb 28 11:53	29°♊14'28			10767 May 13 00:21	15°♎	
	10761 Mar 06 17:22	0°♎		morning rise	10767 May 16 04:58	15°♎23'09	
retrograde	10761 Jun 10 01:39	6°♎53'10		retrograde	10767 Aug 25 12:12	22°♎46'35	
opposition	10761 Aug 16 12:04	3°♎30'52	1°21'22	opposition	10767 Nov 02 16:38	19°♎25'51	-1°31'44
min. Earth dist.	10761 Aug 16 19:32	3°♎29'23	8.41357 AU	min. Earth dist.	10767 Nov 02 16:13	19°♎25'56	8.67020 AU
direct	10761 Oct 24 17:02	0°♎04'13		direct	10768 Jan 11 17:38	16°♎03'06	
evening set	10762 Feb 07 02:05	7°♎55'58		evening set	10768 Apr 23 20:25	23°♎31'35	
conjunction	10762 Feb 24 14:18	10°♎06'40	0°54'35	conjunction	10768 May 10 17:27	25°♎34'53	-1°23'22
minimum elong	10762 Feb 24 14:20	10°♎06'41	0°54'50	minimum elong	10768 May 10 17:24	25°♎34'52	1°23'49
max. Earth dist.	10762 Feb 24 05:01	10°♎03'46	10.43168 AU	max. Earth dist.	10768 May 10 18:31	25°♎35'13	10.68757 AU
morning rise	10762 Mar 13 23:06	12°♎16'24		morning rise	10768 May 27 13:22	27°♎37'50	
retrograde	10762 Jun 23 05:53	19°♎51'45			10768 Jun 17 02:29	0°♎	
opposition	10762 Aug 29 20:58	16°♎29'59	0°53'25	retrograde	10768 Sep 06 03:29	5°♎00'34	
min. Earth dist.	10762 Aug 30 04:26	16°♎28'31	8.45177 AU	opposition	10768 Nov 14 15:06	1°♎39'46	-1°52'15
direct	10762 Nov 07 07:45	13°♎03'47		min. Earth dist.	10768 Nov 14 13:04	1°♎40'09	8.70471 AU
evening set	10763 Feb 20 12:52	20°♎52'22			10768 Dec 07 13:02	30°♎	
				direct	10769 Jan 23 15:23	28°♎17'44	
conjunction	10763 Mar 09 22:46	23°♎01'58	0°30'54	evening set	10769 Mar 10 08:16	0°♎	
minimum elong	10763 Mar 09 22:48	23°♎01'58	0°31'02		10769 May 06 05:24	5°♎42'44	
max. Earth dist.	10763 Mar 09 13:52	22°♎59'11	10.47273 AU	conjunction	10769 May 23 00:43	7°♎45'10	-1°38'01
morning rise	10763 Mar 27 05:26	25°♎10'35					
	10763 May 10 12:32	0°♎					

minimum elong	10769 May 23 00:41	7°♊45'09	1°38'32	minimum elong	10775 Aug 03 14:16	20°♊18'22	1°26'04
max. Earth dist.	10769 May 23 03:49	7°♊46'07	10.71827 AU	max. Earth dist.	10775 Aug 04 01:10	20°♊21'41	10.71593 AU
morning rise	10769 Jun 08 19:34	9°♊47'26		morning rise	10775 Aug 20 16:56	22°♊22'31	
retrograde	10769 Sep 18 17:48	17°♊10'03		retrograde	10775 Dec 03 00:29	29°♊54'16	
opposition	10769 Nov 27 11:59	13°♊49'05	-2°07'34	opposition	10776 Feb 11 02:24	26°♊30'54	-1°34'44
min. Earth dist.	10769 Nov 27 07:44	13°♊49'54	8.73181 AU	min. Earth dist.	10776 Feb 10 17:15	26°♊32'39	8.70200 AU
direct	10770 Feb 05 09:47	10°♊27'44		direct	10776 Apr 19 14:58	23°♊10'54	
evening set	10770 May 18 12:01	17°♊49'46		evening set	10776 Jul 25 00:56	0°♐	
					10776 Jul 29 00:52	0°♐28'28	
conjunction	10770 Jun 04 06:17	19°♊51'33	-1°48'13	conjunction	10776 Aug 15 03:30	2°♐32'51	-1°07'39
minimum elong	10770 Jun 04 06:16	19°♊51'33	1°48'46	minimum elong	10776 Aug 15 03:32	2°♐32'51	1°07'58
max. Earth dist.	10770 Jun 04 12:05	19°♊53'20	10.74091 AU	max. Earth dist.	10776 Aug 15 13:46	2°♐35'58	10.68502 AU
morning rise	10770 Jun 21 00:34	21°♊53'23		morning rise	10776 Sep 01 09:25	4°♐38'12	
retrograde	10770 Oct 01 08:33	29°♊16'29		retrograde	10776 Dec 14 23:17	12°♐12'29	
opposition	10770 Dec 10 07:35	25°♊55'17	-2°17'09	opposition	10777 Feb 22 21:10	8°♐48'35	-1°10'29
min. Earth dist.	10770 Dec 10 01:24	25°♊56'27	8.75023 AU	min. Earth dist.	10777 Feb 22 13:05	8°♐50'08	8.66727 AU
direct	10771 Feb 18 01:59	22°♊34'31		direct	10777 May 02 03:57	5°♐28'12	
evening set	10771 May 30 17:02	29°♊54'07		evening set	10777 Aug 10 15:02	12°♐47'40	
	10771 May 31 12:46	0°♑					
conjunction	10771 Jun 16 10:55	1°♑55'36	-1°53'35	conjunction	10777 Aug 27 20:39	14°♐53'17	-0°46'26
minimum elong	10771 Jun 16 10:54	1°♑55'36	1°54'09	minimum elong	10777 Aug 27 20:41	14°♐53'17	0°46'38
max. Earth dist.	10771 Jun 16 18:28	1°♑57'54	10.75459 AU	max. Earth dist.	10777 Aug 28 05:07	14°♐55'52	10.64731 AU
morning rise	10771 Jul 03 05:27	3°♑57'18		morning rise	10777 Sep 14 05:52	16°♐59'56	
retrograde	10771 Oct 14 01:09	11°♑21'21		retrograde	10777 Dec 28 00:49	24°♐36'53	
opposition	10771 Dec 23 02:25	7°♑59'51	-2°20'38	opposition	10778 Mar 07 17:09	21°♐12'27	-0°42'46
min. Earth dist.	10771 Dec 22 19:13	8°♑01'13	8.75932 AU	min. Earth dist.	10778 Mar 07 10:42	21°♐13'42	8.62625 AU
direct	10772 Mar 01 14:57	4°♑39'32		direct	10778 May 14 18:03	17°♐51'33	
evening set	10772 Jun 10 21:13	11°♑57'17		evening set	10778 Aug 23 09:21	25°♐13'41	
conjunction	10772 Jun 27 15:25	13°♑58'46	-1°53'56	conjunction	10778 Sep 09 18:05	27°♐20'37	-0°22'53
minimum elong	10772 Jun 27 15:25	13°♑58'46	1°54'29	minimum elong	10778 Sep 09 18:06	27°♐20'38	0°22'57
max. Earth dist.	10772 Jun 27 23:41	14°♑01'17	10.75886 AU	max. Earth dist.	10778 Sep 10 01:01	27°♐22'44	10.60373 AU
morning rise	10772 Jul 14 11:08	16°♑00'41		morning rise	10778 Sep 27 06:22	29°♐28'37	
retrograde	10772 Oct 25 15:55	23°♑26'07			10778 Oct 01 15:38	0°♑	
opposition	10773 Jan 03 20:36	20°♑04'15	-2°17'55	retrograde	10779 Jan 10 03:08	7°♑08'25	
min. Earth dist.	10773 Jan 03 13:05	20°♑05'40	8.75875 AU	opposition	10779 Mar 20 14:25	3°♑43'28	-0°12'44
direct	10773 Mar 14 03:05	16°♑44'13		min. Earth dist.	10779 Mar 20 09:22	3°♑44'27	8.58009 AU
evening set	10773 Jun 23 01:38	24°♑00'52		direct	10779 May 27 11:37	0°♑21'53	
				asc. node	10779 Aug 23 03:51	6°♑14'10	
conjunction	10773 Jul 09 20:58	26°♑02'39	-1°49'14	evening set	10779 Sep 05 08:47	7°♑47'33	
minimum elong	10773 Jul 09 21:00	26°♑02'39	1°49'46				
max. Earth dist.	10773 Jul 10 05:46	26°♑05'19	10.75359 AU	conjunction	10779 Sep 22 20:30	9°♑55'52	0°02'04
morning rise	10773 Jul 26 18:33	28°♑05'03		minimum elong	10779 Sep 22 20:31	9°♑55'52	0°02'07
	10773 Aug 12 08:43	0°♊		behind sun begin	10779 Sep 22 13:20	9°♑53'40	
retrograde	10773 Nov 07 07:59	5°♊32'17		behind sun end	10779 Sep 23 03:43	9°♑58'03	
opposition	10774 Jan 16 14:18	2°♊09'57	-2°09'06	max. Earth dist.	10779 Sep 23 02:10	9°♑57'34	10.55583 AU
min. Earth dist.	10774 Jan 16 06:15	2°♊11'29	8.74862 AU	morning rise	10779 Oct 10 11:25	12°♑05'09	
	10774 Feb 16 15:41	30°♐		retrograde	10780 Jan 23 09:09	19°♑47'51	
direct	10774 Mar 26 16:06	28°♑50'05		opposition	10780 Apr 01 13:09	16°♑22'28	0°18'14
	10774 May 02 19:09	0°♊		min. Earth dist.	10780 Apr 01 09:10	16°♑23'15	8.53105 AU
evening set	10774 Jul 05 07:03	6°♊06'18		direct	10780 Jun 08 07:25	13°♑00'06	
				evening set	10780 Sep 17 13:42	20°♑29'57	
conjunction	10774 Jul 22 04:22	8°♊08'43	-1°39'41	conjunction	10780 Oct 05 04:00	22°♑39'36	0°27'02
minimum elong	10774 Jul 22 04:24	8°♊08'44	1°40'11	minimum elong	10780 Oct 05 03:59	22°♑39'36	0°27'13
max. Earth dist.	10774 Jul 22 14:27	8°♊11'47	10.73907 AU	max. Earth dist.	10780 Oct 05 08:01	22°♑40'50	10.50645 AU
morning rise	10774 Aug 08 04:16	10°♊11'53		morning rise	10780 Oct 22 20:58	24°♑50'06	
	10774 Sep 22 15:54	15°♊			10780 Dec 10 06:30	0°♒	
retrograde	10774 Nov 20 03:52	17°♊41'15		retrograde	10781 Feb 04 18:50	2°♒35'29	
	10775 Jan 20 04:27	15°♒			10781 Apr 03 21:30	30°♒	
opposition	10775 Jan 29 08:10	14°♒18'25	-1°54'32	opposition	10781 Apr 14 13:56	29°♑09'45	0°48'40
min. Earth dist.	10775 Jan 28 23:14	14°♒20'07	8.72944 AU	min. Earth dist.	10781 Apr 14 11:17	29°♑10'16	8.48228 AU
direct	10775 Apr 08 03:38	10°♒58'34		direct	10781 Jun 21 04:47	25°♑46'33	
	10775 Jun 18 12:41	15°♒			10781 Sep 01 16:11	0°♒	
evening set	10775 Jul 17 14:23	18°♒15'03		evening set	10781 Sep 30 23:54	3°♒20'59	
conjunction	10775 Aug 03 14:14	20°♒18'21	-1°25'39				

conjunction	10781 Oct 18 16:06	5° \mathbb{M} 31'48	0°50'56	max. Earth dist.	10788 Jan 08 22:03	24° \mathcal{Z} 41'18	10.33322 AU
minimum elong	10781 Oct 18 16:04	5° \mathbb{M} 31'47	0°51'14	morning rise	10788 Jan 26 22:26	26° \mathcal{Z} 56'43	
max. Earth dist.	10781 Oct 18 17:40	5° \mathbb{M} 32'17	10.45880 AU		10788 Feb 21 23:22	0° \approx	
morning rise	10781 Nov 05 10:33	7° \mathbb{M} 43'20		retrograde	10788 May 08 12:11	4° \approx 42'56	
	10782 Jan 24 19:11	15° \mathbb{M}		opposition	10788 Jul 14 17:58	1° \approx 18'34	2°10'30
retrograde	10782 Feb 18 06:07	15° \mathbb{M} 31'03		min. Earth dist.	10788 Jul 15 01:31	1° \approx 17'03	8.34103 AU
	10782 Mar 14 16:41	15° $\mathbb{R}\mathbb{M}$			10788 Jul 31 12:22	30° $\mathbb{R}\mathcal{Z}$	
opposition	10782 Apr 27 16:46	12° \mathbb{M} 05'05	1°16'59	direct	10788 Sep 21 06:37	27° \mathcal{Z} 50'52	
min. Earth dist.	10782 Apr 27 16:08	12° \mathbb{M} 05'12	8.43685 AU		10788 Nov 11 01:02	0° \approx	
direct	10782 Jul 04 06:18	8° \mathbb{M} 40'57		evening set	10789 Jan 04 12:55	5° \approx 46'37	
	10782 Oct 03 11:34	15° \mathbb{M}					
evening set	10782 Oct 14 15:15	16° \mathbb{M} 20'12		conjunction	10789 Jan 22 05:10	7° \approx 59'19	1°39'27
				minimum elong	10789 Jan 22 05:13	7° \approx 59'20	1°39'57
conjunction	10782 Nov 01 08:48	18° \mathbb{M} 31'59	1°12'28	max. Earth dist.	10789 Jan 21 18:54	7° \approx 56'05	10.34908 AU
minimum elong	10782 Nov 01 08:46	18° \mathbb{M} 31'58	1°12'52	morning rise	10789 Feb 08 18:55	10° \approx 11'17	
max. Earth dist.	10782 Nov 01 07:36	18° \mathbb{M} 31'36	10.41574 AU		10789 Mar 24 06:28	15° \approx	
morning rise	10782 Nov 19 04:08	20° \mathbb{M} 44'20		retrograde	10789 May 21 21:14	17° \approx 54'37	
retrograde	10783 Mar 03 17:35	28° \mathbb{M} 33'46			10789 Jul 22 02:03	15° $\mathbb{R}\approx$	
opposition	10783 May 10 21:29	25° \mathbb{M} 07'44	1°41'38	opposition	10789 Jul 28 04:25	14° \approx 30'55	1°54'50
min. Earth dist.	10783 May 10 23:03	25° \mathbb{M} 07'25	8.39731 AU	min. Earth dist.	10789 Jul 28 12:22	14° \approx 29'19	8.36188 AU
direct	10783 Jul 17 12:21	21° \mathbb{M} 42'40		direct	10789 Oct 05 00:22	11° \approx 03'18	
evening set	10783 Oct 28 10:53	29° \mathbb{M} 26'36			10789 Dec 14 13:25	15° \approx	
	10783 Nov 01 23:27	0° \mathcal{Z}		evening set	10790 Jan 18 09:06	18° \approx 58'05	
conjunction	10783 Nov 15 05:20	1° \mathcal{Z} 39'09	1°30'24	conjunction	10790 Feb 04 23:58	21° \approx 10'08	1°24'20
minimum elong	10783 Nov 15 05:18	1° \mathcal{Z} 39'08	1°30'54	minimum elong	10790 Feb 05 00:01	21° \approx 10'08	1°24'44
max. Earth dist.	10783 Nov 15 01:38	1° \mathcal{Z} 38'00	10.37959 AU	max. Earth dist.	10790 Feb 04 13:40	21° \approx 06'53	10.37516 AU
morning rise	10783 Dec 03 00:51	3° \mathcal{Z} 52'02		morning rise	10790 Feb 22 11:59	23° \approx 21'19	
retrograde	10784 Mar 16 06:48	11° \mathcal{Z} 42'30			10790 May 01 06:19	0° \mathcal{H}	
opposition	10784 May 23 04:02	8° \mathcal{Z} 16'32	2°01'12	retrograde	10790 Jun 04 03:36	1° \mathcal{H} 01'26	
min. Earth dist.	10784 May 23 07:19	8° \mathcal{Z} 15'53	8.36564 AU		10790 Jul 08 14:20	30° $\mathbb{R}\approx$	
direct	10784 Jul 29 21:16	4° \mathcal{Z} 50'39		opposition	10790 Aug 10 14:18	27° \approx 38'24	1°33'14
evening set	10784 Nov 10 09:48	12° \mathcal{Z} 38'47		min. Earth dist.	10790 Aug 10 21:46	27° \approx 36'55	8.39216 AU
				direct	10790 Oct 18 17:56	24° \approx 11'08	
conjunction	10784 Nov 28 04:37	14° \mathcal{Z} 51'51	1°43'43		10791 Jan 14 17:28	0° \mathcal{H}	
minimum elong	10784 Nov 28 04:35	14° \mathcal{Z} 51'51	1°44'16	evening set	10791 Feb 01 01:44	2° \mathcal{H} 03'56	
max. Earth dist.	10784 Nov 27 23:22	14° \mathcal{Z} 50'12	10.35211 AU				
morning rise	10784 Dec 15 23:37	17° \mathcal{Z} 05'01		conjunction	10791 Feb 18 14:57	4° \mathcal{H} 15'06	1°04'54
retrograde	10785 Mar 29 20:44	24° \mathcal{Z} 55'42		minimum elong	10791 Feb 18 14:59	4° \mathcal{H} 15'07	1°05'12
opposition	10785 Jun 05 12:04	21° \mathcal{Z} 29'56	2°14'29	max. Earth dist.	10791 Feb 18 05:36	4° \mathcal{H} 12'10	10.40993 AU
min. Earth dist.	10785 Jun 05 16:18	21° \mathcal{Z} 29'05	8.34335 AU	morning rise	10791 Mar 08 00:54	6° \mathcal{H} 25'19	
direct	10785 Aug 12 09:02	18° \mathcal{Z} 03'21		retrograde	10791 Jun 17 09:26	14° \mathcal{H} 02'04	
evening set	10785 Nov 24 10:46	25° \mathcal{Z} 54'58		opposition	10791 Aug 23 23:12	10° \mathcal{H} 39'43	1°06'59
				min. Earth dist.	10791 Aug 24 05:35	10° \mathcal{H} 38'27	8.43024 AU
conjunction	10785 Dec 12 05:33	28° \mathcal{Z} 08'19	1°51'35	direct	10791 Nov 01 08:19	7° \mathcal{H} 13'02	
minimum elong	10785 Dec 12 05:32	28° \mathcal{Z} 08'18	1°52'10	evening set	10792 Feb 14 14:09	15° \mathcal{H} 02'57	
max. Earth dist.	10785 Dec 11 23:09	28° \mathcal{Z} 06'17	10.33477 AU				
	10785 Dec 27 02:02	0° \mathcal{Z}		conjunction	10792 Mar 03 01:20	17° \mathcal{H} 13'06	0°42'19
morning rise	10785 Dec 29 23:35	0° \mathcal{Z} 21'30		minimum elong	10792 Mar 03 01:21	17° \mathcal{H} 13'06	0°42'30
retrograde	10786 Apr 12 10:26	8° \mathcal{Z} 11'32		max. Earth dist.	10792 Mar 02 17:42	17° \mathcal{H} 10'43	10.45153 AU
opposition	10786 Jun 18 21:19	4° \mathcal{Z} 46'07	2°20'38	morning rise	10792 Mar 20 09:00	19° \mathcal{H} 22'13	
min. Earth dist.	10786 Jun 19 02:28	4° \mathcal{Z} 45'04	8.33157 AU	retrograde	10792 Jun 29 12:30	26° \mathcal{H} 55'39	
direct	10786 Aug 25 23:11	1° \mathcal{Z} 18'57		opposition	10792 Sep 05 07:07	23° \mathcal{H} 33'56	0°37'36
evening set	10786 Dec 08 12:28	9° \mathcal{Z} 13'05		min. Earth dist.	10792 Sep 05 12:28	23° \mathcal{H} 32'53	8.47421 AU
				direct	10792 Nov 13 20:53	20° \mathcal{H} 07'59	
conjunction	10786 Dec 26 06:49	11° \mathcal{Z} 26'28	1°53'31	evening set	10793 Feb 26 21:54	27° \mathcal{H} 54'23	
minimum elong	10786 Dec 26 06:49	11° \mathcal{Z} 26'28	1°54'05		10793 Mar 15 20:02	0° \mathcal{Y}	
max. Earth dist.	10786 Dec 25 23:09	11° \mathcal{Z} 24'03	10.32840 AU				
morning rise	10787 Jan 12 23:36	13° \mathcal{Z} 39'26		conjunction	10793 Mar 16 06:40	0° \mathcal{Y} 03'18	0°17'48
retrograde	10787 Apr 26 00:12	21° \mathcal{Z} 27'57		minimum elong	10793 Mar 16 06:40	0° \mathcal{Y} 03'18	0°17'52
opposition	10787 Jul 02 07:27	18° \mathcal{Z} 03'01	2°19'17	max. Earth dist.	10793 Mar 16 00:31	0° \mathcal{Y} 01'24	10.49782 AU
min. Earth dist.	10787 Jul 02 13:45	18° \mathcal{Z} 01'44	8.33078 AU	morning rise	10793 Apr 02 12:00	2° \mathcal{Y} 11'15	
direct	10787 Sep 08 14:07	14° \mathcal{Z} 35'28		retrograde	10793 Jul 12 12:09	9° \mathcal{Y} 41'38	
evening set	10787 Dec 22 13:39	22° \mathcal{Z} 31'00		opposition	10793 Sep 18 13:33	6° \mathcal{Y} 20'29	0°06'39
				min. Earth dist.	10793 Sep 18 18:12	6° \mathcal{Y} 19'35	8.52189 AU
conjunction	10788 Jan 09 07:07	24° \mathcal{Z} 44'10	1°49'24	direct	10793 Nov 27 07:52	2° \mathcal{Y} 55'19	
minimum elong	10788 Jan 09 07:08	24° \mathcal{Z} 44'10	1°49'56	desc. node	10793 Dec 07 09:34	3° \mathcal{Y} 00'31	

evening set	10794 Mar 12 01:10	10°♈37'49		min. Earth dist.	10799 Dec 04 12:19	20°♊31'11	8.75277 AU
				direct	10800 Feb 12 11:05	17°♊09'52	
conjunction	10794 Mar 29 07:12	12°♈45'25 -0°07'26		evening set	10800 May 24 08:49	24°♊30'31	
minimum elong	10794 Mar 29 07:12	12°♈45'25 0°07'31					
behind sun begin	10794 Mar 29 00:43	12°♈43'25		conjunction	10800 Jun 10 02:38	26°♊32'03 -1°51'31	
behind sun end	10794 Mar 29 13:41	12°♈47'24		minimum elong	10800 Jun 10 02:37	26°♊32'02 1°52'05	
max. Earth dist.	10794 Mar 29 02:04	12°♈43'51 10.54649 AU		max. Earth dist.	10800 Jun 10 07:16	26°♊33'27 10.75743 AU	
morning rise	10794 Apr 15 10:13	14°♈52'08		morning rise	10800 Jun 26 21:04	28°♊33'44	
retrograde	10794 Jul 25 09:48	22°♈19'47			10800 Jul 09 04:37	0°♊	
opposition	10794 Oct 01 18:11	18°♈59'07 -0°24'17		retrograde	10800 Oct 07 11:04	5°♊57'15	
min. Earth dist.	10794 Oct 01 21:49	18°♈58'25 8.57092 AU		opposition	10800 Dec 16 11:21	2°♊36'18 -2°19'33	
direct	10794 Dec 10 15:53	15°♈34'49		min. Earth dist.	10800 Dec 16 06:18	2°♊37'15 8.76207 AU	
evening set	10795 Mar 24 23:51	23°♈13'11			10801 Jan 25 02:23	30°♋♊	
				direct	10801 Feb 24 02:51	29°♊16'04	
conjunction	10795 Apr 11 03:04	25°♈19'26 -0°31'59			10801 Mar 25 14:49	0°♊	
minimum elong	10795 Apr 11 03:03	25°♈19'25 0°32'11		evening set	10801 Jun 05 13:38	6°♊34'45	
max. Earth dist.	10795 Apr 10 23:22	25°♈18'17 10.59520 AU					
morning rise	10795 Apr 28 03:47	27°♈24'54		conjunction	10801 Jun 22 07:39	8°♊36'12 -1°54'14	
	10795 May 20 11:31	0°♋		minimum elong	10801 Jun 22 07:39	8°♊36'12 1°54'49	
retrograde	10795 Aug 07 04:22	4°♋50'22		max. Earth dist.	10801 Jun 22 14:10	8°♊38'11 10.76132 AU	
opposition	10795 Oct 14 21:12	1°♋29'59 -0°53'42		morning rise	10801 Jul 09 02:44	10°♋37'59	
min. Earth dist.	10795 Oct 14 22:59	1°♋29'39 8.61894 AU		retrograde	10801 Oct 20 02:47	18°♋02'52	
	10795 Nov 04 04:12	30°♋♈		opposition	10801 Dec 29 06:05	14°♋41'23 -2°19'47	
direct	10795 Dec 23 21:16	28°♈06'35		min. Earth dist.	10801 Dec 28 23:31	14°♋42'37 8.76075 AU	
	10796 Feb 10 03:44	0°♋		direct	10802 Mar 08 16:21	11°♋21'22	
evening set	10796 Apr 05 17:55	5°♋40'45		evening set	10802 Jun 17 18:12	18°♋38'43	
conjunction	10796 Apr 22 18:29	7°♋45'40 -0°54'49		conjunction	10802 Jul 04 13:03	20°♋40'23 -1°51'55	
minimum elong	10796 Apr 22 18:27	7°♋45'40 0°55'08		minimum elong	10802 Jul 04 13:04	20°♋40'24 1°52'29	
max. Earth dist.	10796 Apr 22 17:14	7°♋45'17 10.64160 AU		max. Earth dist.	10802 Jul 04 21:08	20°♋42'51 10.75492 AU	
morning rise	10796 May 09 16:58	9°♋49'59		morning rise	10802 Jul 21 09:31	22°♋42'34	
	10796 Jun 28 00:02	15°♋			10802 Oct 19 06:20	0°♌	
retrograde	10796 Aug 18 21:25	17°♋13'50		retrograde	10802 Nov 01 20:05	0°♌09'14	
	10796 Oct 12 03:08	15°♋♋			10802 Nov 15 10:46	30°♋♌	
opposition	10796 Oct 26 22:20	13°♋53'36 -1°20'19		opposition	10803 Jan 11 00:27	26°♋47'07 -2°13'51	
min. Earth dist.	10796 Oct 26 21:44	13°♋53'43 8.66354 AU		min. Earth dist.	10803 Jan 10 17:03	26°♋48'31 8.74933 AU	
direct	10797 Jan 04 23:56	10°♋31'03		direct	10803 Mar 21 04:58	23°♋27'08	
	10797 Mar 22 17:52	15°♋			10803 Jun 23 18:53	0°♌	
evening set	10797 Apr 18 08:05	18°♋01'10		evening set	10803 Jun 29 23:27	0°♌43'49	
conjunction	10797 May 05 06:18	20°♋04'53 -1°14'56		conjunction	10803 Jul 16 19:47	2°♌46'01 -1°44'38	
minimum elong	10797 May 05 06:16	20°♋04'52 1°15'21		minimum elong	10803 Jul 16 19:49	2°♌46'01 1°45'10	
max. Earth dist.	10797 May 05 07:42	20°♋05'19 10.68328 AU		max. Earth dist.	10803 Jul 17 04:05	2°♌48'32 10.73897 AU	
morning rise	10797 May 22 02:49	22°♋08'09		morning rise	10803 Aug 02 18:30	4°♌48'54	
retrograde	10797 Aug 31 15:01	29°♋30'56		retrograde	10803 Nov 14 14:50	12°♌17'39	
opposition	10797 Nov 08 21:34	26°♋10'44 -1°42'59		opposition	10804 Jan 23 18:43	8°♌54'51 -2°01'56	
min. Earth dist.	10797 Nov 08 19:23	26°♋11'09 8.70227 AU		min. Earth dist.	10804 Jan 23 11:29	8°♌56'13 8.72869 AU	
direct	10798 Jan 17 22:17	22°♋48'56		direct	10804 Apr 01 16:14	5°♌34'43	
	10798 Apr 28 15:32	0°♊		evening set	10804 Jul 11 06:09	12°♌51'29	
evening set	10798 Apr 30 18:55	0°♊15'19					
				conjunction	10804 Jul 28 04:41	14°♌54'29 -1°32'38	
conjunction	10798 May 17 15:03	2°♊18'03 -1°31'29		minimum elong	10804 Jul 28 04:43	14°♌54'30 1°33'06	
minimum elong	10798 May 17 15:00	2°♊18'02 1°31'59			10804 Jul 28 22:47	15°♌	
max. Earth dist.	10798 May 17 17:55	2°♊18'56 10.71780 AU		max. Earth dist.	10804 Jul 28 12:56	14°♌57'00 10.71429 AU	
morning rise	10798 Jun 03 10:09	4°♊20'30		morning rise	10804 Aug 14 06:14	16°♌58'20	
retrograde	10798 Sep 13 05:47	11°♊42'49		retrograde	10804 Nov 26 09:08	24°♌29'28	
opposition	10798 Nov 21 19:23	8°♊22'31 -2°00'49		opposition	10805 Feb 04 13:07	21°♌05'58 -1°44'30	
min. Earth dist.	10798 Nov 21 16:25	8°♊23'04 8.73265 AU		min. Earth dist.	10805 Feb 04 06:03	21°♌07'19 8.69968 AU	
direct	10799 Jan 30 16:57	5°♊01'22		direct	10805 Apr 14 04:53	17°♌45'32	
evening set	10799 May 13 02:50	12°♊24'34		evening set	10805 Jul 23 15:18	25°♌03'12	
conjunction	10799 May 29 21:22	14°♊26'31 -1°43'50		conjunction	10805 Aug 09 16:37	27°♌07'15 -1°16'24	
minimum elong	10799 May 29 21:21	14°♊26'30 1°44'23		minimum elong	10805 Aug 09 16:40	27°♌07'16 1°16'46	
max. Earth dist.	10799 May 30 00:50	14°♊27'34 10.74291 AU		max. Earth dist.	10805 Aug 10 01:15	27°♌09'53 10.68179 AU	
morning rise	10799 Jun 15 15:48	16°♊28'26		morning rise	10805 Aug 26 21:11	29°♌12'15	
retrograde	10799 Sep 25 19:43	23°♊51'03			10805 Sep 02 14:46	0°♍	
opposition	10799 Dec 04 15:58	20°♊30'29 -2°13'09		retrograde	10805 Dec 09 07:05	6°♍46'03	

opposition	10806 Feb 17 07:58	3° \mathbb{M} 21'50	-1°22'12		10811 Nov 12 14:21	15° \mathbb{M}	
min. Earth dist.	10806 Feb 17 00:43	3° \mathbb{M} 23'14	8.66345 AU	morning rise	10811 Nov 13 07:01	15° \mathbb{M} 05'05	
direct	10806 Apr 26 18:49	0° \mathbb{M} 01'01		retrograde	10812 Feb 25 22:57	22° \mathbb{M} 54'48	
evening set	10806 Aug 05 03:49	7° \mathbb{M} 20'20		opposition	10812 May 04 06:52	19° \mathbb{M} 28'26	1°31'02
				min. Earth dist.	10812 May 04 06:01	19° \mathbb{M} 28'36	8.39842 AU
conjunction	10806 Aug 22 08:15	9° \mathbb{M} 25'37	-0°56'34	direct	10812 Jul 10 21:23	16° \mathbb{M} 03'34	
minimum elong	10806 Aug 22 08:17	9° \mathbb{M} 25'38	0°56'49	evening set	10812 Oct 21 13:12	23° \mathbb{M} 46'17	
max. Earth dist.	10806 Aug 22 17:21	9° \mathbb{M} 28'24	10.64281 AU				
morning rise	10806 Sep 08 15:56	11° \mathbb{M} 31'55		conjunction	10812 Nov 08 07:31	25° \mathbb{M} 58'47	1°22'46
retrograde	10806 Dec 22 08:25	19° \mathbb{M} 08'34		minimum elong	10812 Nov 08 07:29	25° \mathbb{M} 58'46	1°23'13
opposition	10807 Mar 02 03:47	15° \mathbb{M} 43'41	-0°55'55	max. Earth dist.	10812 Nov 08 07:16	25° \mathbb{M} 58'42	10.38103 AU
min. Earth dist.	10807 Mar 01 20:27	15° \mathbb{M} 45'06	8.62155 AU	morning rise	10812 Nov 26 02:56	28° \mathbb{M} 11'40	
direct	10807 May 09 08:04	12° \mathbb{M} 22'22			10812 Dec 11 05:32	0° \mathbb{J}	
evening set	10807 Aug 17 20:30	19° \mathbb{M} 44'07		retrograde	10813 Mar 10 14:26	6° \mathbb{J} 02'43	
				opposition	10813 May 17 13:22	2° \mathbb{J} 36'34	1°53'03
conjunction	10807 Sep 04 04:02	21° \mathbb{M} 50'45	-0°33'56	min. Earth dist.	10813 May 17 14:02	2° \mathbb{J} 36'25	8.36708 AU
minimum elong	10807 Sep 04 04:03	21° \mathbb{M} 50'46	0°34'03		10813 Jun 23 15:20	30° \mathbb{R} \mathbb{M}	
max. Earth dist.	10807 Sep 04 12:14	21° \mathbb{M} 53'16	10.59895 AU	direct	10813 Jul 24 03:39	29° \mathbb{M} 11'02	
morning rise	10807 Sep 21 14:55	23° \mathbb{M} 58'26			10813 Aug 23 12:38	0° \mathbb{J}	
	10807 Nov 20 18:56	0° \mathbb{L}		evening set	10813 Nov 04 11:27	6° \mathbb{J} 58'09	
retrograde	10808 Jan 04 11:29	1° \mathbb{L} 38'00					
	10808 Feb 18 20:59	30° \mathbb{R} \mathbb{M}		conjunction	10813 Nov 22 06:14	9° \mathbb{J} 11'13	1°38'17
opposition	10808 Mar 14 00:55	28° \mathbb{M} 12'33	-0°26'43	minimum elong	10813 Nov 22 06:12	9° \mathbb{J} 11'12	1°38'48
min. Earth dist.	10808 Mar 13 18:36	28° \mathbb{M} 13'47	8.57576 AU	max. Earth dist.	10813 Nov 22 03:36	9° \mathbb{J} 10'23	10.35378 AU
direct	10808 May 20 23:40	24° \mathbb{M} 50'36		morning rise	10813 Dec 10 01:30	11° \mathbb{J} 24'29	
	10808 Aug 10 07:29	0° \mathbb{L}		retrograde	10814 Mar 24 05:31	19° \mathbb{J} 16'04	
evening set	10808 Aug 29 18:10	2° \mathbb{L} 15'37		opposition	10814 May 30 21:41	15° \mathbb{J} 50'16	2°09'14
				min. Earth dist.	10814 May 31 00:25	15° \mathbb{J} 49'43	8.34491 AU
conjunction	10808 Sep 16 04:37	4° \mathbb{L} 23'38	-0°09'30	direct	10814 Aug 06 14:35	12° \mathbb{J} 24'08	
minimum elong	10808 Sep 16 04:36	4° \mathbb{L} 23'37	0°09'30	evening set	10814 Nov 18 12:39	20° \mathbb{J} 15'03	
behind sun begin	10808 Sep 15 22:39	4° \mathbb{L} 21'49					
behind sun end	10808 Sep 16 10:34	4° \mathbb{L} 25'26		conjunction	10814 Dec 06 07:27	22° \mathbb{J} 28'27	1°48'39
max. Earth dist.	10808 Sep 16 10:52	4° \mathbb{L} 25'32	10.55211 AU	minimum elong	10814 Dec 06 07:26	22° \mathbb{J} 28'26	1°49'12
morning rise	10808 Oct 03 18:27	6° \mathbb{L} 32'39		max. Earth dist.	10814 Dec 06 02:14	22° \mathbb{J} 26'48	10.33640 AU
retrograde	10809 Jan 16 16:53	14° \mathbb{L} 15'06		morning rise	10814 Dec 24 02:05	24° \mathbb{J} 41'49	
asc. node	10809 Feb 06 06:06	13° \mathbb{L} 53'33			10815 Feb 10 22:06	0° \mathbb{Z}	
opposition	10809 Mar 26 23:31	10° \mathbb{L} 49'13	0°04'04	retrograde	10815 Apr 06 19:36	2° \mathbb{Z} 32'58	
min. Earth dist.	10809 Mar 26 18:54	10° \mathbb{L} 50'07	8.52818 AU		10815 Jun 02 07:49	30° \mathbb{R} \mathbb{J}	
direct	10809 Jun 02 18:15	7° \mathbb{L} 26'33		opposition	10815 Jun 13 07:15	29° \mathbb{J} 07'39	2°18'37
evening set	10809 Sep 11 21:00	14° \mathbb{L} 55'28		min. Earth dist.	10815 Jun 13 11:48	29° \mathbb{J} 06'45	8.33302 AU
				direct	10815 Aug 20 05:21	25° \mathbb{J} 41'02	
conjunction	10809 Sep 29 10:07	17° \mathbb{L} 04'49	0°15'42		10815 Nov 01 16:19	0° \mathbb{Z}	
minimum elong	10809 Sep 29 10:06	17° \mathbb{L} 04'49	0°15'50	evening set	10815 Dec 02 15:13	3° \mathbb{Z} 34'49	
behind sun begin	10809 Sep 29 09:22	17° \mathbb{L} 04'36					
behind sun end	10809 Sep 29 10:49	17° \mathbb{L} 05'02		conjunction	10815 Dec 20 09:40	5° \mathbb{Z} 48'17	1°53'14
max. Earth dist.	10809 Sep 29 14:22	17° \mathbb{L} 06'08	10.50453 AU	minimum elong	10815 Dec 20 09:40	5° \mathbb{Z} 48'17	1°53'49
morning rise	10809 Oct 17 02:25	19° \mathbb{L} 15'07		max. Earth dist.	10815 Dec 20 02:39	5° \mathbb{Z} 46'04	10.32968 AU
retrograde	10810 Jan 30 00:53	27° \mathbb{L} 00'20		morning rise	10816 Jan 07 03:13	8° \mathbb{Z} 01'30	
opposition	10810 Apr 09 00:05	23° \mathbb{L} 34'08	0°34'59	retrograde	10816 Apr 19 09:16	15° \mathbb{Z} 51'18	
min. Earth dist.	10810 Apr 08 21:04	23° \mathbb{L} 34'44	8.48119 AU	opposition	10816 Jun 25 17:51	12° \mathbb{Z} 26'32	2°20'35
direct	10810 Jun 15 15:44	20° \mathbb{L} 10'43		min. Earth dist.	10816 Jun 25 23:28	12° \mathbb{Z} 25'24	8.33174 AU
evening set	10810 Sep 25 05:06	27° \mathbb{L} 44'02		direct	10816 Sep 01 21:32	8° \mathbb{Z} 59'34	
				evening set	10816 Dec 15 17:26	16° \mathbb{Z} 54'59	
conjunction	10810 Oct 12 20:33	29° \mathbb{L} 54'36	0°40'17				
minimum elong	10810 Oct 12 20:31	29° \mathbb{L} 54'35	0°40'32	conjunction	10817 Jan 02 11:16	19° \mathbb{Z} 08'18	1°51'45
max. Earth dist.	10810 Oct 12 23:31	29° \mathbb{L} 55'31	10.45859 AU	minimum elong	10817 Jan 02 11:16	19° \mathbb{Z} 08'19	1°52'19
	10810 Oct 13 13:56	0° \mathbb{M}		max. Earth dist.	10817 Jan 02 03:13	19° \mathbb{Z} 05'46	10.33360 AU
morning rise	10810 Oct 30 14:37	2° \mathbb{M} 06'00		morning rise	10817 Jan 20 03:22	21° \mathbb{Z} 21'07	
retrograde	10811 Feb 12 10:47	9° \mathbb{M} 53'43		retrograde	10817 May 02 22:32	29° \mathbb{Z} 08'46	
opposition	10811 Apr 22 02:32	6° \mathbb{M} 27'20	1°04'30	opposition	10817 Jul 09 04:50	25° \mathbb{Z} 44'33	2°15'00
min. Earth dist.	10811 Apr 22 00:33	6° \mathbb{M} 27'44	8.43717 AU	min. Earth dist.	10817 Jul 09 11:00	25° \mathbb{Z} 43'19	8.34057 AU
direct	10811 Jun 28 17:11	3° \mathbb{M} 03'11		direct	10817 Sep 15 14:40	22° \mathbb{Z} 17'23	
evening set	10811 Oct 08 18:42	10° \mathbb{M} 41'11			10817 Dec 27 22:56	0° \mathbb{X}	
				evening set	10817 Dec 29 18:13	0° \mathbb{X} 13'18	
conjunction	10811 Oct 26 11:56	12° \mathbb{M} 52'49	1°03'04				
minimum elong	10811 Oct 26 11:54	12° \mathbb{M} 52'49	1°03'25	conjunction	10818 Jan 16 11:09	2° \mathbb{X} 26'14	1°44'19
max. Earth dist.	10811 Oct 26 13:32	12° \mathbb{M} 53'19	10.41665 AU	minimum elong	10818 Jan 16 11:11	2° \mathbb{X} 26'15	1°44'50

max. Earth dist.	10818 Jan 16 02:28	2° \approx 23'30	10.34715 AU	minimum elong	10824 Apr 05 01:02	20° Υ 13'40	0°21'54
morning rise	10818 Feb 03 01:37	4° \approx 38'29		max. Earth dist.	10824 Apr 04 20:44	20° Υ 12'20	10.56111 AU
retrograde	10818 May 16 09:44	12° \approx 23'20		morning rise	10824 Apr 22 02:44	22° Υ 19'52	
opposition	10818 Jul 22 15:41	8° \approx 59'44	2°02'15	retrograde	10824 Aug 01 03:29	29° Υ 46'55	
min. Earth dist.	10818 Jul 22 22:37	8° \approx 58'21	8.35804 AU	opposition	10824 Oct 08 15:42	26° Υ 26'05	-0°41'36
direct	10818 Sep 29 08:05	5° \approx 32'33		min. Earth dist.	10824 Oct 08 18:19	26° Υ 25'35	8.58351 AU
evening set	10819 Jan 12 16:31	13° \approx 27'59		direct	10824 Dec 17 14:21	23° Υ 01'56	
	10819 Jan 24 23:55	15° \approx		evening set	10825 Mar 26 08:03	0° \mathcal{B}	
					10825 Mar 31 16:53	0° \mathcal{B} 38'36	
conjunction	10819 Jan 30 08:13	15° \approx 40'21	1°31'21	conjunction	10825 Apr 17 18:48	2° \mathcal{B} 44'19	-0°45'30
minimum elong	10819 Jan 30 08:15	15° \approx 40'22	1°31'48	minimum elong	10825 Apr 17 18:46	2° \mathcal{B} 44'18	0°45'47
max. Earth dist.	10819 Jan 29 22:38	15° \approx 37'20	10.36862 AU	max. Earth dist.	10825 Apr 17 16:21	2° \mathcal{B} 43'33	10.60544 AU
morning rise	10819 Feb 16 20:54	17° \approx 51'53		morning rise	10825 May 04 18:15	4° \mathcal{B} 49'20	
retrograde	10819 May 29 19:03	25° \approx 33'40		retrograde	10825 Aug 13 21:23	12° \mathcal{B} 14'30	
opposition	10819 Aug 05 02:22	22° \approx 10'45	1°43'05	opposition	10825 Oct 21 18:07	8° \mathcal{B} 53'46	-1°09'36
min. Earth dist.	10819 Aug 05 10:15	22° \approx 09'11	8.38272 AU	min. Earth dist.	10825 Oct 21 19:35	8° \mathcal{B} 53'29	8.62692 AU
direct	10819 Oct 13 01:04	18° \approx 43'45		direct	10825 Dec 30 18:48	5° \mathcal{B} 30'19	
evening set	10820 Jan 26 11:30	26° \approx 37'45		evening set	10826 Apr 13 09:14	13° \mathcal{B} 02'55	
					10826 Apr 29 08:31	15° \mathcal{B}	
conjunction	10820 Feb 13 01:31	28° \approx 49'23	1°13'39	conjunction	10826 Apr 30 08:26	15° \mathcal{B} 07'22	-1°06'54
minimum elong	10820 Feb 13 01:33	28° \approx 49'24	1°14'01	minimum elong	10826 Apr 30 08:24	15° \mathcal{B} 07'21	1°07'18
max. Earth dist.	10820 Feb 12 15:16	28° \approx 46'10	10.39703 AU	max. Earth dist.	10826 Apr 30 07:22	15° \mathcal{B} 07'02	10.64693 AU
	10820 Feb 22 10:42	0° \mathcal{H}		morning rise	10826 May 17 05:56	17° \mathcal{B} 11'17	
morning rise	10820 Mar 01 12:18	1° \mathcal{H} 00'04		retrograde	10826 Aug 26 14:07	24° \mathcal{B} 35'08	
retrograde	10820 Jun 11 02:20	8° \mathcal{H} 38'39		opposition	10826 Nov 03 18:33	21° \mathcal{B} 14'25	-1°34'06
opposition	10820 Aug 17 12:30	5° \mathcal{H} 16'23	1°18'40	min. Earth dist.	10826 Nov 03 18:13	21° \mathcal{B} 14'28	8.66660 AU
min. Earth dist.	10820 Aug 17 20:42	5° \mathcal{H} 14'46	8.41416 AU	direct	10827 Jan 12 19:41	17° \mathcal{B} 51'41	
direct	10820 Oct 25 17:04	1° \mathcal{H} 49'44		evening set	10827 Apr 25 21:44	25° \mathcal{B} 20'26	
evening set	10821 Feb 08 02:34	9° \mathcal{H} 41'26					
conjunction	10821 Feb 25 14:36	11° \mathcal{H} 52'08	0°52'16	conjunction	10827 May 12 18:42	27° \mathcal{B} 23'47	-1°25'05
minimum elong	10821 Feb 25 14:38	11° \mathcal{H} 52'08	0°52'31	minimum elong	10827 May 12 18:40	27° \mathcal{B} 23'46	1°25'33
max. Earth dist.	10821 Feb 25 04:24	11° \mathcal{H} 48'56	10.43197 AU	max. Earth dist.	10827 May 12 19:59	27° \mathcal{B} 24'10	10.68374 AU
morning rise	10821 Mar 14 23:24	14° \mathcal{H} 01'51		morning rise	10827 May 29 14:35	29° \mathcal{B} 26'48	
retrograde	10821 Jun 24 05:35	21° \mathcal{H} 37'12			10827 Jun 03 06:00	0° \mathcal{I}	
opposition	10821 Aug 30 21:33	18° \mathcal{H} 15'28	0°50'25	retrograde	10827 Sep 08 05:10	6° \mathcal{I} 49'57	
min. Earth dist.	10821 Aug 31 05:12	18° \mathcal{H} 13'58	8.45172 AU	opposition	10827 Nov 16 17:20	3° \mathcal{I} 29'06	-1°54'06
direct	10821 Nov 08 08:48	14° \mathcal{H} 49'19		min. Earth dist.	10827 Nov 16 14:36	3° \mathcal{I} 29'38	8.70074 AU
evening set	10822 Feb 21 13:11	22° \mathcal{H} 37'55		direct	10828 Jan 25 17:04	0° \mathcal{I} 07'06	
conjunction	10822 Mar 10 23:00	24° \mathcal{H} 47'30	0°28'24	evening set	10828 May 07 06:51	7° \mathcal{I} 32'20	
minimum elong	10822 Mar 10 23:01	24° \mathcal{H} 47'30	0°28'31				
max. Earth dist.	10822 Mar 10 13:56	24° \mathcal{H} 44'40	10.47228 AU	conjunction	10828 May 24 02:12	9° \mathcal{I} 34'48	-1°39'17
morning rise	10822 Mar 28 05:37	26° \mathcal{H} 56'08		minimum elong	10828 May 24 02:10	9° \mathcal{I} 34'47	1°39'48
	10822 Apr 23 16:41	0° Υ		max. Earth dist.	10828 May 24 06:19	9° \mathcal{I} 36'03	10.71418 AU
retrograde	10822 Jul 07 06:32	4° Υ 28'23		morning rise	10828 Jun 09 20:56	11° \mathcal{I} 37'07	
opposition	10822 Sep 13 05:15	1° Υ 07'04	0°19'54	retrograde	10828 Sep 19 20:32	19° \mathcal{I} 00'11	
min. Earth dist.	10822 Sep 13 11:15	1° Υ 05'54	8.49380 AU	opposition	10828 Nov 28 14:29	15° \mathcal{I} 39'09	-2°08'49
	10822 Sep 27 20:05	30° \mathcal{R} \mathcal{H}		min. Earth dist.	10828 Nov 28 09:31	15° \mathcal{I} 40'06	8.72770 AU
direct	10822 Nov 21 22:33	27° \mathcal{H} 41'31		direct	10829 Feb 06 12:20	12° \mathcal{I} 17'48	
	10823 Jan 14 06:30	0° Υ		evening set	10829 May 19 13:43	19° \mathcal{I} 40'01	
evening set	10823 Mar 06 19:09	5° Υ 26'27					
conjunction	10823 Mar 24 02:32	7° Υ 34'47	0°03'22	conjunction	10829 Jun 05 08:00	21° \mathcal{I} 41'52	-1°48'57
minimum elong	10823 Mar 24 02:30	7° Υ 34'47	0°03'20	minimum elong	10829 Jun 05 07:59	21° \mathcal{I} 41'52	1°49'31
behind sun begin	10823 Mar 23 19:25	7° Υ 32'36		max. Earth dist.	10829 Jun 05 14:16	21° \mathcal{I} 43'47	10.73680 AU
behind sun end	10823 Mar 24 09:35	7° Υ 36'58		morning rise	10829 Jun 22 02:17	23° \mathcal{I} 43'46	
max. Earth dist.	10823 Mar 23 19:47	7° Υ 32'43	10.51601 AU		10829 Aug 26 16:18	0° \mathcal{E}	
morning rise	10823 Apr 10 06:40	9° Υ 42'12		retrograde	10829 Oct 02 12:33	1° \mathcal{E} 07'13	
desc. node	10823 May 12 23:27	13° Υ 24'13			10829 Nov 09 01:51	30° \mathcal{R} \mathcal{I}	
retrograde	10823 Jul 20 06:42	17° Υ 11'40		opposition	10829 Dec 11 10:15	27° \mathcal{I} 45'57	-2°17'43
opposition	10823 Sep 26 11:21	13° Υ 50'38	-0°11'17	min. Earth dist.	10829 Dec 11 04:08	27° \mathcal{I} 47'07	8.74621 AU
min. Earth dist.	10823 Sep 26 15:30	13° Υ 49'50	8.53841 AU	direct	10830 Feb 19 03:24	24° \mathcal{I} 25'09	
direct	10823 Dec 05 08:15	10° Υ 25'47			10830 May 16 17:18	0° \mathcal{E}	
evening set	10824 Mar 18 20:21	18° Υ 06'38		evening set	10830 May 31 18:59	1° \mathcal{E} 44'54	
conjunction	10824 Apr 05 01:03	20° Υ 13'40	-0°21'45	conjunction	10830 Jun 17 12:49	3° \mathcal{E} 46'27	-1°53'46
				minimum elong	10830 Jun 17 12:49	3° \mathcal{E} 46'26	1°54'20




























































































































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morning rise	10830 Jul 04 07:33	5° 5 48'14		morning rise	10836 Sep 15 08:58	18° 17 51'37	
retrograde	10830 Oct 15 02:52	13° 5 12'34		retrograde	10836 Dec 29 02:17	26° 17 28'26	
opposition	10830 Dec 24 05:15	9° 5 51'00	-2°20'31	opposition	10837 Mar 08 19:45	23° 17 03'58	-0°39'28
min. Earth dist.	10830 Dec 23 22:27	9° 5 52'17	8.75555 AU	min. Earth dist.	10837 Mar 08 12:58	23° 17 05'17	8.62738 AU
direct	10831 Mar 03 16:37	6° 5 30'37		direct	10837 May 15 21:34	19° 17 43'02	
evening set	10831 Jun 12 23:16	13° 5 48'31		evening set	10837 Aug 24 12:05	27° 17 05'04	
conjunction	10831 Jun 29 17:32	15° 5 50'03	-1°53'32	conjunction	10837 Sep 10 21:05	29° 17 12'02	-0°20'09
minimum elong	10831 Jun 29 17:32	15° 5 50'03	1°54'06	minimum elong	10837 Sep 10 21:06	29° 17 12'02	0°20'12
max. Earth dist.	10831 Jun 30 01:40	15° 5 52'32	10.75529 AU	max. Earth dist.	10837 Sep 11 05:04	29° 17 14'28	10.60568 AU
morning rise	10831 Jul 16 13:28	17° 5 52'02			10837 Sep 17 09:37	0° 1	
retrograde	10831 Oct 27 18:05	25° 5 17'45		morning rise	10837 Sep 28 09:25	1° 1 19'59	
opposition	10832 Jan 05 23:33	21° 5 55'46	-2°17'05	retrograde	10838 Jan 11 05:37	8° 1 59'33	
min. Earth dist.	10832 Jan 05 15:51	21° 5 57'13	8.75539 AU	opposition	10838 Mar 21 16:44	5° 1 34'36	-0°09'21
direct	10832 Mar 15 07:04	18° 5 35'41		min. Earth dist.	10838 Mar 21 10:53	5° 1 35'44	8.58290 AU
evening set	10832 Jun 24 03:46	25° 5 52'23		direct	10838 May 28 14:38	2° 1 13'01	
conjunction	10832 Jul 10 23:22	27° 5 54'15	-1°48'17	asc. node	10838 Jul 13 11:11	4° 1 00'54	
minimum elong	10832 Jul 10 23:23	27° 5 54'16	1°48'50	evening set	10838 Sep 06 11:32	9° 1 38'28	
max. Earth dist.	10832 Jul 11 09:03	27° 5 57'12	10.75049 AU	conjunction	10838 Sep 23 23:24	11° 1 46'45	0°04'49
morning rise	10832 Jul 27 21:05	29° 5 56'44		minimum elong	10838 Sep 23 23:24	11° 1 46'45	0°04'54
	10832 Jul 28 08:06	0° 1		behind sun begin	10838 Sep 23 16:23	11° 1 44'37	
retrograde	10832 Nov 08 11:50	7° 1 24'08		behind sun end	10838 Sep 24 06:25	11° 1 48'53	
opposition	10833 Jan 17 17:12	4° 1 01'41	-2°07'36	max. Earth dist.	10838 Sep 24 05:41	11° 1 48'40	10.55936 AU
min. Earth dist.	10833 Jan 17 08:18	4° 1 03'23	8.74577 AU	morning rise	10838 Oct 11 14:17	13° 1 56'00	
direct	10833 Mar 27 18:44	0° 1 41'46		retrograde	10839 Jan 24 12:46	21° 1 38'20	
evening set	10833 Jul 06 09:21	7° 1 58'00		opposition	10839 Apr 03 15:18	18° 1 12'58	0°21'33
conjunction	10833 Jul 23 06:57	10° 1 00'29	-1°38'12	min. Earth dist.	10839 Apr 03 10:55	18° 1 13'50	8.53522 AU
minimum elong	10833 Jul 23 06:59	10° 1 00'30	1°38'42	direct	10839 Jun 10 08:31	14° 1 50'38	
max. Earth dist.	10833 Jul 23 17:54	10° 1 03'49	10.73651 AU	evening set	10839 Sep 19 16:20	22° 1 20'15	
morning rise	10833 Aug 09 07:01	12° 1 03'44		conjunction	10839 Oct 07 06:37	24° 1 29'49	0°29'39
	10833 Sep 04 08:05	15° 1		minimum elong	10839 Oct 07 06:36	24° 1 29'49	0°29'51
retrograde	10833 Nov 21 06:47	19° 1 33'10		max. Earth dist.	10839 Oct 07 10:12	24° 1 30'56	10.51106 AU
opposition	10834 Jan 30 11:01	16° 1 01'14	-1°52'25	morning rise	10839 Oct 24 23:39	26° 1 40'16	
min. Earth dist.	10834 Jan 30 01:34	16° 1 02'02	8.72717 AU		10839 Nov 23 05:00	0° 1	
	10834 Feb 15 03:17	15° 1 8		retrograde	10840 Feb 06 21:02	4° 1 25'15	
direct	10834 Apr 09 05:32	12° 1 50'20		opposition	10840 Apr 15 15:50	0° 1 59'35	0°51'44
	10834 May 30 07:22	15° 1		min. Earth dist.	10840 Apr 15 13:40	1° 1 00'01	8.48723 AU
evening set	10834 Jul 18 16:53	20° 1 06'49			10840 Apr 28 09:30	30° 1 3	
conjunction	10834 Aug 04 16:53	22° 1 01'10	-1°23'42	direct	10840 Jun 22 06:47	27° 1 36'24	
minimum elong	10834 Aug 04 16:55	22° 1 01'11	1°24'07		10840 Aug 14 12:08	0° 1	
max. Earth dist.	10834 Aug 05 03:44	22° 1 03'29	10.71404 AU	evening set	10840 Oct 02 02:31	5° 1 10'40	
morning rise	10834 Aug 21 19:52	24° 1 04'25		conjunction	10840 Oct 19 18:38	7° 1 21'23	0°53'17
	10834 Oct 18 05:39	0° 1		minimum elong	10840 Oct 19 18:36	7° 1 21'22	0°53'36
retrograde	10834 Dec 04 03:47	1° 1 46'10		max. Earth dist.	10840 Oct 19 19:13	7° 1 21'34	10.46393 AU
	10835 Jan 21 03:28	30° 1 8		morning rise	10840 Nov 06 13:08	9° 1 32'50	
opposition	10835 Feb 12 05:16	28° 1 022'43	-1°32'06		10840 Dec 28 01:54	15° 1	
min. Earth dist.	10835 Feb 11 20:18	28° 1 024'27	8.70052 AU	retrograde	10841 Feb 19 06:55	17° 1 20'07	
direct	10835 Apr 21 17:34	25° 1 02'39			10841 Apr 14 17:51	15° 1 8	
	10835 Jul 10 18:53	0° 1		opposition	10841 Apr 28 18:19	13° 1 54'17	1°19'39
evening set	10835 Jul 31 03:26	2° 1 20'11		min. Earth dist.	10841 Apr 28 18:25	13° 1 54'15	8.44211 AU
conjunction	10835 Aug 17 06:13	4° 1 24'37	-1°05'20	direct	10841 Jul 05 08:48	10° 1 30'11	
minimum elong	10835 Aug 17 06:15	4° 1 24'38	1°05'39		10841 Sep 18 09:27	15° 1	
max. Earth dist.	10835 Aug 17 16:01	4° 1 27'37	10.68410 AU	evening set	10841 Oct 15 17:36	18° 1 09'15	
morning rise	10835 Sep 03 12:28	6° 1 30'03		conjunction	10841 Nov 02 11:07	20° 1 20'58	1°14'25
retrograde	10835 Dec 17 02:21	14° 1 30'41'5		minimum elong	10841 Nov 02 11:04	20° 1 20'57	1°14'51
opposition	10836 Feb 25 00:02	10° 1 40'19	-1°07'27	max. Earth dist.	10841 Nov 02 09:25	20° 1 20'26	10.42100 AU
min. Earth dist.	10836 Feb 24 16:17	10° 1 41'48	8.66692 AU	morning rise	10841 Nov 20 06:23	22° 1 33'12	
direct	10836 May 03 06:10	7° 1 19'52			10842 Feb 12 06:23	0° 1 22'15	
evening set	10836 Aug 11 17:37	14° 1 39'17		retrograde	10842 Mar 04 19:03	30° 1 8	
conjunction	10836 Aug 28 23:31	16° 1 44'56	-0°43'51		10842 Mar 25 08:46	30° 1 8	
minimum elong	10836 Aug 28 23:32	16° 1 44'56	0°44'02	opposition	10842 May 11 22:47	26° 1 56'21	1°43'46
				min. Earth dist.	10842 May 12 00:33	26° 1 56'00	8.40257 AU

direct	10842 Jul 18 13:57	23° \mathbb{M} 31'21		direct	10848 Oct 06 02:08	12° \approx 49'46	
	10842 Oct 19 03:30	0° \mathbb{A}			10848 Nov 26 04:22	15° \approx	
evening set	10842 Oct 29 12:53	1° \mathbb{A} 15'06		evening set	10849 Jan 19 09:41	20° \approx 44'27	
conjunction	10842 Nov 16 07:21	3° \mathbb{A} 27'34	1°31'53	conjunction	10849 Feb 06 00:34	22° \approx 56'29	1°22'30
minimum elong	10842 Nov 16 07:19	3° \mathbb{A} 27'33	1°32'24	minimum elong	10849 Feb 06 00:37	22° \approx 56'29	1°22'54
max. Earth dist.	10842 Nov 16 03:58	3° \mathbb{A} 26'30	10.38471 AU	max. Earth dist.	10849 Feb 05 14:35	22° \approx 53'20	10.37584 AU
morning rise	10842 Dec 04 02:42	5° \mathbb{A} 40'21		morning rise	10849 Feb 23 12:26	25° \approx 07'37	
retrograde	10843 Mar 18 07:45	13° \mathbb{A} 30'29			10849 Apr 08 19:42	0° \mathbb{H}	
opposition	10843 May 25 05:01	10° \mathbb{A} 04'37	2°02'41	retrograde	10849 Jun 05 05:00	2° \mathbb{H} 47'41	
min. Earth dist.	10843 May 25 07:57	10° \mathbb{A} 04'02	8.37063 AU		10849 Aug 04 03:23	30° \mathbb{R} \approx	
direct	10843 Jul 31 23:05	6° \mathbb{A} 38'49		opposition	10849 Aug 11 14:42	29° \approx 24'37	1°30'44
evening set	10843 Nov 12 11:39	14° \mathbb{A} 26'48		min. Earth dist.	10849 Aug 11 21:49	29° \approx 23'13	8.39224 AU
				direct	10849 Oct 19 17:32	25° \approx 57'23	
conjunction	10843 Nov 30 06:29	16° \mathbb{A} 39'48	1°44'39		10849 Dec 30 11:12	0° \mathbb{H}	
minimum elong	10843 Nov 30 06:27	16° \mathbb{A} 39'47	1°45'12	evening set	10850 Feb 02 02:08	3° \mathbb{H} 50'04	
max. Earth dist.	10843 Nov 30 01:37	16° \mathbb{A} 38'16	10.35687 AU				
morning rise	10843 Dec 18 01:15	18° \mathbb{A} 52'51		conjunction	10850 Feb 19 15:21	6° \mathbb{H} 01'16	1°02'44
retrograde	10844 Mar 30 21:31	26° \mathbb{A} 43'13		minimum elong	10850 Feb 19 15:23	6° \mathbb{H} 01'16	1°03'02
opposition	10844 Jun 06 12:47	23° \mathbb{A} 17'35	2°15'15	max. Earth dist.	10850 Feb 19 06:28	5° \mathbb{H} 58'28	10.40949 AU
min. Earth dist.	10844 Jun 06 16:55	23° \mathbb{A} 16'45	8.34786 AU	morning rise	10850 Mar 09 01:09	8° \mathbb{H} 11'28	
direct	10844 Aug 13 10:15	19° \mathbb{A} 51'04		retrograde	10850 Jun 18 10:01	15° \mathbb{H} 48'12	
evening set	10844 Nov 25 12:27	27° \mathbb{A} 42'34		opposition	10850 Aug 24 23:39	12° \mathbb{H} 25'48	1°04'07
				min. Earth dist.	10850 Aug 25 06:11	12° \mathbb{H} 24'31	8.42924 AU
conjunction	10844 Dec 13 07:09	29° \mathbb{A} 55'50	1°51'56	direct	10850 Nov 02 08:26	8° \mathbb{H} 59'05	
minimum elong	10844 Dec 13 07:09	29° \mathbb{A} 55'50	1°52'31	evening set	10851 Feb 15 14:31	16° \mathbb{H} 49'00	
max. Earth dist.	10844 Dec 13 00:27	29° \mathbb{A} 53'44	10.33897 AU				
	10844 Dec 13 20:23	0° \mathbb{B}		conjunction	10851 Mar 05 01:36	18° \mathbb{H} 59'08	0°39'54
morning rise	10844 Dec 31 01:00	2° \mathbb{B} 08'56		minimum elong	10851 Mar 05 01:38	18° \mathbb{H} 59'09	0°40'04
retrograde	10845 Apr 13 12:09	9° \mathbb{B} 58'40		max. Earth dist.	10851 Mar 04 17:46	18° \mathbb{H} 56'41	10.45002 AU
opposition	10845 Jun 19 21:59	6° \mathbb{B} 33'23	2°20'41	morning rise	10851 Mar 22 09:11	21° \mathbb{H} 08'16	
min. Earth dist.	10845 Jun 20 03:41	6° \mathbb{B} 32'14	8.33544 AU	retrograde	10851 Jul 01 12:27	28° \mathbb{H} 41'46	
direct	10845 Aug 26 22:45	3° \mathbb{B} 06'17		opposition	10851 Sep 07 07:41	25° \mathbb{H} 20'01	0°34'30
evening set	10845 Dec 09 13:49	11° \mathbb{B} 00'18		min. Earth dist.	10851 Sep 07 13:49	25° \mathbb{H} 18'49	8.47220 AU
				direct	10851 Nov 15 21:51	21° \mathbb{H} 53'59	
conjunction	10845 Dec 27 07:59	13° \mathbb{B} 13'37	1°53'15	evening set	10852 Feb 28 22:17	29° \mathbb{H} 40'27	
minimum elong	10845 Dec 27 08:00	13° \mathbb{B} 13'37	1°53'50		10852 Mar 02 14:12	0° \mathbb{Y}	
max. Earth dist.	10845 Dec 26 23:22	13° \mathbb{B} 10'54	10.33193 AU				
morning rise	10846 Jan 14 00:42	15° \mathbb{B} 26'32		conjunction	10852 Mar 17 06:50	1° \mathbb{Y} 49'22	0°15'16
retrograde	10846 Apr 27 01:26	23° \mathbb{B} 14'46		minimum elong	10852 Mar 17 06:51	1° \mathbb{Y} 49'22	0°15'19
opposition	10846 Jul 03 08:03	19° \mathbb{B} 49'57	2°18'36	behind sun begin	10852 Mar 17 04:37	1° \mathbb{Y} 48'41	
min. Earth dist.	10846 Jul 03 15:15	19° \mathbb{B} 48'30	8.33394 AU	behind sun end	10852 Mar 17 09:04	1° \mathbb{Y} 50'03	
direct	10846 Sep 09 14:49	16° \mathbb{B} 22'27		max. Earth dist.	10852 Mar 16 23:48	1° \mathbb{Y} 47'11	10.49533 AU
evening set	10846 Dec 23 14:45	24° \mathbb{B} 17'53		morning rise	10852 Apr 03 12:10	3° \mathbb{Y} 57'20	
				retrograde	10852 Jul 13 12:42	11° \mathbb{Y} 27'51	
conjunction	10847 Jan 10 08:04	26° \mathbb{B} 30'59	1°48'33	opposition	10852 Sep 19 14:19	8° \mathbb{Y} 06'39	0°03'28
minimum elong	10847 Jan 10 08:06	26° \mathbb{B} 31'00	1°49'05	min. Earth dist.	10852 Sep 19 19:26	8° \mathbb{Y} 05'39	8.51900 AU
max. Earth dist.	10847 Jan 09 21:50	26° \mathbb{B} 27'46	10.33599 AU	desc. node	10852 Oct 31 04:29	5° \mathbb{Y} 20'51	
morning rise	10847 Jan 27 23:25	28° \mathbb{B} 43'31		direct	10852 Nov 28 08:34	4° \mathbb{Y} 41'26	
	10847 Feb 07 11:19	0° \approx		evening set	10853 Mar 13 01:31	12° \mathbb{Y} 24'01	
retrograde	10847 May 10 11:23	6° \approx 29'30					
opposition	10847 Jul 16 18:23	3° \approx 05'14	2°09'07	conjunction	10853 Mar 30 07:23	14° \mathbb{Y} 31'38	-0°09'59
min. Earth dist.	10847 Jul 17 02:30	3° \approx 03'36	8.34332 AU	minimum elong	10853 Mar 30 07:22	14° \mathbb{Y} 31'37	0°10'04
	10847 Sep 02 15:48	30° \mathbb{R} \mathbb{B}		behind sun begin	10853 Mar 30 01:38	14° \mathbb{Y} 29'52	
direct	10847 Sep 23 08:45	29° \mathbb{B} 37'33		behind sun end	10853 Mar 30 13:06	14° \mathbb{Y} 33'23	
	10847 Oct 13 23:27	0° \approx		max. Earth dist.	10853 Mar 30 01:47	14° \mathbb{Y} 29'55	10.54322 AU
evening set	10848 Jan 06 13:46	7° \approx 33'14		morning rise	10853 Apr 16 10:23	16° \mathbb{Y} 38'22	
				retrograde	10853 Jul 26 09:31	24° \mathbb{Y} 06'16	
conjunction	10848 Jan 24 05:59	9° \approx 45'54	1°38'05	opposition	10853 Oct 02 19:06	20° \mathbb{Y} 45'30	-0°27'23
minimum elong	10848 Jan 24 06:01	9° \approx 45'54	1°38'34	min. Earth dist.	10853 Oct 02 22:26	20° \mathbb{Y} 44'51	8.56734 AU
max. Earth dist.	10848 Jan 23 19:13	9° \approx 42'30	10.35089 AU	direct	10853 Dec 11 16:57	17° \mathbb{Y} 21'09	
morning rise	10848 Feb 10 19:43	11° \approx 57'49		evening set	10854 Mar 26 00:12	24° \mathbb{Y} 59'39	
	10848 Mar 07 17:31	15° \approx					
retrograde	10848 May 22 20:30	19° \approx 41'01		conjunction	10854 Apr 12 03:23	27° \mathbb{Y} 05'55	-0°34'25
opposition	10848 Jul 29 04:47	16° \approx 17'20	1°52'50	minimum elong	10854 Apr 12 03:22	27° \mathbb{Y} 05'55	0°34'38
min. Earth dist.	10848 Jul 29 12:37	16° \approx 15'47	8.36309 AU	max. Earth dist.	10854 Apr 12 00:10	27° \mathbb{Y} 04'56	10.59131 AU
	10848 Aug 14 18:25	15° \mathbb{R} \approx		morning rise	10854 Apr 29 04:00	29° \mathbb{Y} 11'26	

	10854 May 05 22:07	0°♄	minimum elong	10860 Jun 23 09:05	10°♄25'14	1°54'42
retrograde	10854 Aug 08 05:02	6°♄37'14	max. Earth dist.	10860 Jun 23 16:30	10°♄27'30	10.76166 AU
opposition	10854 Oct 15 22:18	3°♄16'45 -0°56'36	morning rise	10860 Jul 10 04:11	12°♄27'02	
min. Earth dist.	10854 Oct 15 23:19	3°♄16'33 8.61481 AU	retrograde	10860 Oct 21 06:01	19°♄52'02	
	10854 Dec 13 09:34	30°♄♂	opposition	10860 Dec 30 08:21	16°♄30'34 -2°19'16	
direct	10854 Dec 24 23:08	29°♄53'19	min. Earth dist.	10860 Dec 30 01:22	16°♄31'54 8.76160 AU	
	10855 Jan 05 09:56	0°♄	direct	10861 Mar 09 18:04	13°♄10'38	
evening set	10855 Apr 07 18:31	7°♄27'39	evening set	10861 Jun 18 19:43	20°♄27'55	
conjunction	10855 Apr 24 19:04	9°♄32'37 -0°57'01	conjunction	10861 Jul 05 14:36	22°♄29'36 -1°51'14	
minimum elong	10855 Apr 24 19:02	9°♄32'36 0°57'22	minimum elong	10861 Jul 05 14:38	22°♄29'36 1°51'48	
max. Earth dist.	10855 Apr 24 18:43	9°♄32'30 10.63727 AU	max. Earth dist.	10861 Jul 05 22:30	22°♄32'00 10.75626 AU	
morning rise	10855 May 11 17:21	11°♄36'57	morning rise	10861 Jul 22 11:18	24°♄31'49	
	10855 Jun 10 16:59	15°♄		10861 Sep 14 06:31	0°♄	
retrograde	10855 Aug 21 00:02	19°♄01'10	retrograde	10861 Nov 02 22:39	1°♄58'28	
opposition	10855 Oct 28 23:47	15°♄40'52 -1°22'51		10861 Dec 24 04:06	30°♄♂	
min. Earth dist.	10855 Oct 28 22:53	15°♄41'02 8.65916 AU	opposition	10862 Jan 12 02:38	28°♄36'26 -2°12'39	
	10855 Nov 06 23:45	15°♄♄	min. Earth dist.	10862 Jan 11 19:35	28°♄37'47 8.75110 AU	
direct	10856 Jan 07 00:28	12°♄18'18	direct	10862 Mar 22 05:36	25°♄16'32	
	10856 Mar 05 05:30	15°♄		10862 Jun 08 15:05	0°♄	
evening set	10856 Apr 19 08:59	19°♄48'36	evening set	10862 Jul 01 01:01	2°♄33'08	
conjunction	10856 May 06 07:02	21°♄52'22 -1°16'49	conjunction	10862 Jul 17 21:27	4°♄35'20 -1°43'24	
minimum elong	10856 May 06 07:00	21°♄52'21 1°17'15	minimum elong	10862 Jul 17 21:29	4°♄35'21 1°43'56	
max. Earth dist.	10856 May 06 08:39	21°♄52'51 10.67896 AU	max. Earth dist.	10862 Jul 18 05:26	4°♄37'46 10.74119 AU	
morning rise	10856 May 23 03:28	23°♄55'41	morning rise	10862 Aug 03 20:26	6°♄38'15	
	10856 Jul 24 01:29	0°♄	retrograde	10862 Nov 15 15:28	14°♄06'57	
retrograde	10856 Sep 01 16:29	1°♄18'50	opposition	10863 Jan 24 20:50	10°♄44'14 -2°00'07	
	10856 Oct 12 07:17	30°♄♄	min. Earth dist.	10863 Jan 24 13:40	10°♄45'36 8.73126 AU	
opposition	10856 Nov 09 23:28	27°♄58'34 -1°45'03	direct	10863 Apr 03 18:31	7°♄24'11	
min. Earth dist.	10856 Nov 09 21:27	27°♄58'57 8.69826 AU	evening set	10863 Jul 13 07:36	14°♄40'49	
direct	10857 Jan 18 22:23	24°♄36'47		10863 Jul 15 23:46	15°♄	
	10857 Apr 14 02:00	0°♄				
evening set	10857 May 01 19:59	2°♄03'22	conjunction	10863 Jul 30 06:24	16°♄43'51 -1°30'57	
conjunction	10857 May 18 15:56	4°♄06'06 -1°32'57	minimum elong	10863 Jul 30 06:26	16°♄43'51 1°31'24	
minimum elong	10857 May 18 15:54	4°♄06'05 1°33'28	max. Earth dist.	10863 Jul 30 15:18	16°♄46'33 10.71727 AU	
max. Earth dist.	10857 May 18 18:38	4°♄06'55 10.71421 AU	morning rise	10863 Aug 16 08:06	18°♄47'42	
morning rise	10857 Jun 04 11:08	6°♄08'36	retrograde	10863 Nov 28 11:23	26°♄18'45	
retrograde	10857 Sep 14 06:56	13°♄31'17	opposition	10864 Feb 06 15:03	22°♄55'18 -1°42'09	
opposition	10857 Nov 22 21:30	10°♄10'56 -2°02'20	min. Earth dist.	10864 Feb 06 07:20	22°♄56'46 8.70298 AU	
min. Earth dist.	10857 Nov 22 18:28	10°♄11'30 8.72972 AU	direct	10864 Apr 15 07:41	19°♄34'58	
direct	10858 Jan 31 19:30	6°♄49'46	evening set	10864 Jul 24 16:48	26°♄52'25	
evening set	10858 May 14 04:04	14°♄13'06	conjunction	10864 Aug 10 18:26	28°♄56'29 -1°14'19	
conjunction	10858 May 30 22:35	16°♄15'05 -1°44'48	minimum elong	10864 Aug 10 18:28	28°♄56'30 1°14'40	
minimum elong	10858 May 30 22:33	16°♄15'04 1°45'22	max. Earth dist.	10864 Aug 11 03:58	28°♄59'24 10.68546 AU	
max. Earth dist.	10858 May 31 02:28	16°♄16'16 10.74067 AU		10864 Aug 19 10:55	0°♄	
morning rise	10858 Jun 16 17:03	18°♄17'01	morning rise	10864 Aug 27 23:06	1°♄01'29	
retrograde	10858 Sep 26 21:50	25°♄39'53	retrograde	10864 Dec 10 09:54	8°♄35'05	
opposition	10858 Dec 05 18:04	22°♄19'17 -2°14'01	opposition	10865 Feb 18 09:33	5°♄10'56 -1°19'25	
min. Earth dist.	10858 Dec 05 13:37	22°♄20'07 8.75129 AU	min. Earth dist.	10865 Feb 18 01:39	5°♄12'27 8.66740 AU	
direct	10859 Feb 13 13:17	18°♄58'41	direct	10865 Apr 27 19:17	1°♄50'12	
evening set	10859 May 26 10:07	26°♄19'20	evening set	10865 Aug 06 05:22	9°♄09'17	
conjunction	10859 Jun 12 04:03	28°♄20'53 -1°51'57	conjunction	10865 Aug 23 09:57	11°♄14'33 -0°54'11	
minimum elong	10859 Jun 12 04:02	28°♄20'53 1°52'32	minimum elong	10865 Aug 23 09:59	11°♄14'34 0°54'25	
max. Earth dist.	10859 Jun 12 09:56	28°♄22'41 10.75663 AU	max. Earth dist.	10865 Aug 23 19:06	11°♄17'21 10.64707 AU	
	10859 Jun 25 18:54	0°♄	morning rise	10865 Sep 09 17:49	13°♄20'50	
morning rise	10859 Jun 28 22:26	0°♄22'36	retrograde	10865 Dec 23 09:48	20°♄57'11	
retrograde	10859 Oct 09 13:05	7°♄46'17	opposition	10866 Mar 03 05:09	17°♄32'22 -0°52'50	
opposition	10859 Dec 18 13:35	4°♄25'18 -2°19'44	min. Earth dist.	10866 Mar 02 21:54	17°♄33'47 8.62605 AU	
min. Earth dist.	10859 Dec 18 07:27	4°♄26'27 8.76188 AU	direct	10866 May 10 09:15	14°♄11'07	
direct	10860 Feb 26 04:29	1°♄05'08	evening set	10866 Aug 18 21:55	21°♄32'37	
evening set	10860 Jun 06 14:59	8°♄23'46	conjunction	10866 Sep 05 05:29	23°♄39'13 -0°31'22	
conjunction	10860 Jun 23 09:05	10°♄25'14 -1°54'07	minimum elong	10866 Sep 05 05:30	23°♄39'13 0°31'28	
			max. Earth dist.	10866 Sep 05 12:59	23°♄41'31 10.60375 AU	

morning rise	10866 Sep 22 16:36	25° \mathbb{M} 46'51		minimum elong	10872 Nov 23 05:51	10° \mathbb{X} 54'10	1°39'56
	10866 Oct 31 04:14	0° $\underline{\mathbf{a}}$		max. Earth dist.	10872 Nov 23 01:58	10° \mathbb{X} 52'56	10.35694 AU
retrograde	10867 Jan 05 12:37	3° $\underline{\mathbf{a}}$ 26'03		morning rise	10872 Dec 11 01:07	13° \mathbb{X} 07'20	
opposition	10867 Mar 16 02:01	0° $\underline{\mathbf{a}}$ 00'40	-0°23'30	retrograde	10873 Mar 25 02:52	20° \mathbb{X} 58'31	
min. Earth dist.	10867 Mar 15 20:19	0° $\underline{\mathbf{a}}$ 01'47	8.58076 AU	opposition	10873 May 31 20:22	17° \mathbb{X} 32'43	2°10'17
	10867 Mar 16 05:27	30° \mathbb{R} \mathbb{M}		min. Earth dist.	10873 May 31 23:53	17° \mathbb{X} 32'01	8.34757 AU
direct	10867 May 23 01:01	26° \mathbb{M} 38'45		direct	10873 Aug 07 14:59	14° \mathbb{X} 06'31	
	10867 Jul 26 00:54	0° $\underline{\mathbf{a}}$		evening set	10873 Nov 19 12:02	21° \mathbb{X} 57'16	
evening set	10867 Aug 31 19:21	4° $\underline{\mathbf{a}}$ 03'28					
conjunction	10867 Sep 18 05:54	6° $\underline{\mathbf{a}}$ 11'25	-0°06'54	conjunction	10873 Dec 07 06:45	24° \mathbb{X} 10'35	1°49'13
minimum elong	10867 Sep 18 05:54	6° $\underline{\mathbf{a}}$ 11'25	0°06'53	minimum elong	10873 Dec 07 06:44	24° \mathbb{X} 10'35	1°49'48
behind sun begin	10867 Sep 17 23:14	6° $\underline{\mathbf{a}}$ 09'23		max. Earth dist.	10873 Dec 07 01:02	24° \mathbb{X} 08'47	10.33852 AU
behind sun end	10867 Sep 18 12:34	6° $\underline{\mathbf{a}}$ 13'27		morning rise	10873 Dec 25 01:18	26° \mathbb{X} 23'53	
max. Earth dist.	10867 Sep 18 11:46	6° $\underline{\mathbf{a}}$ 13'12	10.55734 AU		10874 Jan 25 05:47	0° \mathbb{Z}	
morning rise	10867 Oct 05 19:55	8° $\underline{\mathbf{a}}$ 20'24		retrograde	10874 Apr 07 17:31	4° \mathbb{Z} 14'46	
asc. node	10867 Dec 31 09:24	15° $\underline{\mathbf{a}}$ 45'10		opposition	10874 Jun 14 05:44	0° \mathbb{Z} 49'25	2°18'59
retrograde	10868 Jan 18 17:33	16° $\underline{\mathbf{a}}$ 02'24		min. Earth dist.	10874 Jun 14 10:20	0° \mathbb{Z} 48'30	8.33463 AU
opposition	10868 Mar 28 00:11	12° $\underline{\mathbf{a}}$ 36'34	0°07'16		10874 Jun 24 13:58	30° \mathbb{R} \mathbb{X}	
min. Earth dist.	10868 Mar 27 19:56	12° $\underline{\mathbf{a}}$ 37'25	8.53353 AU	direct	10874 Aug 21 04:27	27° \mathbb{X} 22'46	
direct	10868 Jun 03 19:00	9° $\underline{\mathbf{a}}$ 13'55			10874 Oct 16 03:07	0° \mathbb{Z}	
evening set	10868 Sep 12 21:58	16° $\underline{\mathbf{a}}$ 42'32		evening set	10874 Dec 03 14:14	5° \mathbb{Z} 16'25	
conjunction	10868 Sep 30 11:15	18° $\underline{\mathbf{a}}$ 51'48	0°18'14	conjunction	10874 Dec 21 08:45	7° \mathbb{Z} 29'52	1°53'14
minimum elong	10868 Sep 30 11:14	18° $\underline{\mathbf{a}}$ 51'48	0°18'23	minimum elong	10874 Dec 21 08:45	7° \mathbb{Z} 29'52	1°53'50
max. Earth dist.	10868 Sep 30 15:50	18° $\underline{\mathbf{a}}$ 53'13	10.50992 AU	max. Earth dist.	10874 Dec 21 01:59	7° \mathbb{Z} 27'44	10.33078 AU
morning rise	10868 Oct 18 03:33	21° $\underline{\mathbf{a}}$ 02'00		morning rise	10875 Jan 08 02:10	9° \mathbb{Z} 43'02	
retrograde	10869 Jan 31 00:02	28° $\underline{\mathbf{a}}$ 46'45		retrograde	10875 Apr 21 08:14	17° \mathbb{Z} 32'40	
opposition	10869 Apr 10 00:12	25° $\underline{\mathbf{a}}$ 20'35	0°38'01	opposition	10875 Jun 27 16:12	14° \mathbb{Z} 07'53	2°20'15
min. Earth dist.	10869 Apr 09 20:58	25° $\underline{\mathbf{a}}$ 21'13	8.48655 AU	min. Earth dist.	10875 Jun 27 21:30	14° \mathbb{Z} 06'49	8.33236 AU
direct	10869 Jun 16 17:25	21° $\underline{\mathbf{a}}$ 57'10		direct	10875 Sep 03 20:06	10° \mathbb{Z} 40'54	
evening set	10869 Sep 26 05:50	29° $\underline{\mathbf{a}}$ 30'10		evening set	10875 Dec 17 16:26	18° \mathbb{Z} 36'19	
	10869 Sep 30 07:41	0° \mathbb{M}					
conjunction	10869 Oct 13 21:22	1° \mathbb{M} 40'39	0°42'37	conjunction	10876 Jan 04 10:18	20° \mathbb{Z} 49'38	1°51'13
minimum elong	10869 Oct 13 21:20	1° \mathbb{M} 40'38	0°42'53	minimum elong	10876 Jan 04 10:19	20° \mathbb{Z} 49'38	1°51'47
max. Earth dist.	10869 Oct 14 00:50	1° \mathbb{M} 41'43	10.46377 AU	max. Earth dist.	10876 Jan 04 02:38	20° \mathbb{Z} 47'13	10.33384 AU
morning rise	10869 Oct 31 15:17	3° \mathbb{M} 51'55		morning rise	10876 Jan 22 02:15	23° \mathbb{Z} 02'25	
retrograde	10870 Feb 13 10:28	11° \mathbb{M} 39'10			10876 Apr 03 08:57	0° \approx	
opposition	10870 Apr 23 02:15	8° \mathbb{M} 12'47	1°07'13	retrograde	10876 May 03 21:05	0° \approx 49'58	
min. Earth dist.	10870 Apr 22 23:57	8° \mathbb{M} 13'14	8.44220 AU		10876 Jun 03 15:43	30° \mathbb{R} \mathbb{Z}	
direct	10870 Jun 29 17:27	4° \mathbb{M} 48'37		opposition	10876 Jul 10 03:13	27° \mathbb{Z} 25'48	2°14'00
evening set	10870 Oct 09 19:09	12° \mathbb{M} 26'17		min. Earth dist.	10876 Jul 10 09:21	27° \mathbb{Z} 24'34	8.34055 AU
conjunction	10870 Oct 27 12:19	14° \mathbb{M} 37'49	1°05'05	direct	10876 Sep 16 13:14	23° \mathbb{Z} 58'38	
minimum elong	10870 Oct 27 12:16	14° \mathbb{M} 37'48	1°05'27		10876 Dec 14 19:21	0° \approx	
max. Earth dist.	10870 Oct 27 13:39	14° \mathbb{M} 38'14	10.42139 AU	evening set	10876 Dec 30 17:12	1° \approx 54'36	
	10870 Oct 30 11:29	15° \mathbb{M}					
morning rise	10870 Nov 14 07:16	16° \mathbb{M} 49'58		conjunction	10877 Jan 17 10:05	4° \approx 07'32	1°43'15
retrograde	10871 Feb 26 23:54	24° \mathbb{M} 39'12		minimum elong	10877 Jan 17 10:07	4° \approx 07'32	1°43'46
opposition	10871 May 06 06:15	21° \mathbb{M} 12'50	1°33'17	max. Earth dist.	10877 Jan 17 01:22	4° \approx 04'47	10.34711 AU
min. Earth dist.	10871 May 06 05:47	21° \mathbb{M} 12'55	8.40289 AU	morning rise	10877 Feb 04 00:25	6° \approx 19'45	
direct	10871 Jul 12 19:38	17° \mathbb{M} 47'54		retrograde	10877 May 17 08:40	14° \approx 04'33	
evening set	10871 Oct 23 13:18	25° \mathbb{M} 30'20		opposition	10877 Jul 23 14:18	10° \approx 41'00	2°00'38
conjunction	10871 Nov 10 07:29	27° \mathbb{M} 42'42	1°24'23	min. Earth dist.	10877 Jul 23 21:40	10° \approx 39'31	8.35811 AU
minimum elong	10871 Nov 10 07:26	27° \mathbb{M} 42'42	1°24'51	direct	10877 Sep 30 06:18	7° \approx 13'48	
max. Earth dist.	10871 Nov 10 06:07	27° \mathbb{M} 42'17	10.38511 AU		10878 Jan 12 09:22	15° \approx	
morning rise	10871 Nov 28 02:53	29° \mathbb{M} 55'31		evening set	10878 Jan 13 15:19	15° \approx 09'12	
	10871 Nov 28 17:33	0° \mathbb{X}					
retrograde	10872 Mar 11 13:18	7° \mathbb{X} 46'04		conjunction	10878 Jan 31 06:52	17° \approx 21'34	1°29'49
opposition	10872 May 18 12:25	4° \mathbb{X} 19'55	1°54'44	minimum elong	10878 Jan 31 06:55	17° \approx 21'35	1°30'16
min. Earth dist.	10872 May 18 14:04	4° \mathbb{X} 19'35	8.37075 AU	max. Earth dist.	10878 Jan 30 20:39	17° \approx 18'21	10.36888 AU
direct	10872 Jul 25 03:43	0° \mathbb{X} 54'17		morning rise	10878 Feb 17 19:34	19° \approx 33'05	
evening set	10872 Nov 05 11:16	8° \mathbb{X} 41'12		retrograde	10878 May 30 17:55	27° \approx 14'47	
conjunction	10872 Nov 23 05:53	10° \mathbb{X} 54'10	1°39'23	opposition	10878 Aug 06 01:01	23° \approx 51'53	1°40'57
				min. Earth dist.	10878 Aug 06 09:29	23° \approx 50'12	8.38305 AU
				direct	10878 Oct 13 23:23	20° \approx 24'52	
				evening set	10879 Jan 27 10:12	28° \approx 18'51	
					10879 Feb 09 23:09	0° \mathbb{H}	

conjunction	10879 Feb 14 00:06	0° H 30'27	1°11'45	evening set	10885 Apr 14 08:49	14° B 47'44	
minimum elong	10879 Feb 14 00:08	0° H 30'28	1°12'06		10885 Apr 16 01:29	15° B	
max. Earth dist.	10879 Feb 13 13:03	0° H 26'59	10.39729 AU				
morning rise	10879 Mar 03 10:57	2° H 41'09		conjunction	10885 May 01 07:58	16° B 52'14	-1°08'52
retrograde	10879 Jun 12 23:30	10° H 19'41		minimum elong	10885 May 01 07:56	16° B 52'14	1°09'16
opposition	10879 Aug 19 11:04	6° H 57'26	1°16'07	max. Earth dist.	10885 May 01 07:05	16° B 51'58	10.64221 AU
min. Earth dist.	10879 Aug 19 19:27	6° H 55'47	8.41414 AU	morning rise	10885 May 18 05:27	18° B 56'15	
direct	10879 Oct 27 16:59	3° H 30'49		retrograde	10885 Aug 27 14:07	26° B 20'37	
evening set	10880 Feb 10 01:09	11° H 22'33		opposition	10885 Nov 04 19:04	22° B 59'51	-1°36'19
				min. Earth dist.	10885 Nov 04 18:04	23° B 00'03	8.66168 AU
conjunction	10880 Feb 27 13:09	13° H 33'14	0°50'05	direct	10886 Jan 13 19:49	19° B 37'10	
minimum elong	10880 Feb 27 13:11	13° H 33'14	0°50'19	evening set	10886 Apr 26 21:38	27° B 06'15	
max. Earth dist.	10880 Feb 27 02:49	13° H 30'00	10.43157 AU				
morning rise	10880 Mar 15 21:55	15° H 42'58		conjunction	10886 May 13 18:39	29° B 09'39	-1°26'40
retrograde	10880 Jun 25 03:50	23° H 18'26		minimum elong	10886 May 13 18:37	29° B 09'39	1°27'10
opposition	10880 Aug 31 20:18	19° H 56'43	0°47'35	max. Earth dist.	10886 May 13 20:50	29° B 10'20	10.67862 AU
min. Earth dist.	10880 Sep 01 03:28	19° H 55'18	8.45081 AU		10886 May 20 14:44	0° II	
direct	10880 Nov 09 08:18	16° H 30'38		morning rise	10886 May 30 14:25	1° II 12'44	
evening set	10881 Feb 22 11:40	24° H 19'19		retrograde	10886 Sep 09 06:42	8° II 36'25	
				opposition	10886 Nov 17 18:13	5° II 15'31	-1°55'49
conjunction	10881 Mar 11 21:30	26° H 28'55	0°26'02	min. Earth dist.	10886 Nov 17 14:54	5° II 16'09	8.69550 AU
minimum elong	10881 Mar 11 21:31	26° H 28'56	0°26'08	direct	10887 Jan 26 18:16	1° II 53'32	
max. Earth dist.	10881 Mar 11 13:06	26° H 26'18	10.47087 AU	evening set	10887 May 09 07:10	9° II 19'03	
morning rise	10881 Mar 29 03:59	28° H 37'33					
	10881 Apr 09 14:36	0° Y		conjunction	10887 May 26 02:29	11° II 21'35	-1°40'26
retrograde	10881 Jul 08 06:42	6° Y 10'05		minimum elong	10887 May 26 02:27	11° II 21'35	1°40'59
opposition	10881 Sep 14 04:16	2° Y 48'47	0°16'55	max. Earth dist.	10887 May 26 07:07	11° II 23'00	10.70886 AU
min. Earth dist.	10881 Sep 14 09:54	2° Y 47'41	8.49184 AU	morning rise	10887 Jun 11 21:09	13° II 23'59	
	10881 Oct 26 17:57	30° R H		retrograde	10887 Sep 21 23:06	20° II 47'30	
direct	10881 Nov 22 20:23	29° H 23'20		opposition	10887 Nov 30 15:50	17° II 26'25	-2°09'58
	10881 Dec 19 17:43	0° Y		min. Earth dist.	10887 Nov 30 10:55	17° II 27'20	8.72243 AU
evening set	10882 Mar 07 17:50	7° Y 08'25		direct	10888 Feb 08 11:45	14° II 05'02	
				evening set	10888 May 20 14:21	21° II 27'29	
conjunction	10882 Mar 25 01:12	9° Y 16'48	0°00'54				
minimum elong	10882 Mar 25 01:11	9° Y 16'48	0°00'51	conjunction	10888 Jun 06 08:32	23° II 29'24	-1°49'37
behind sun begin	10882 Mar 24 18:03	9° Y 14'36		minimum elong	10888 Jun 06 08:31	23° II 29'24	1°50'12
behind sun end	10882 Mar 25 08:18	9° Y 19'00		max. Earth dist.	10888 Jun 06 14:28	23° II 31'13	10.73163 AU
max. Earth dist.	10882 Mar 24 18:49	9° Y 14'51	10.51355 AU	morning rise	10888 Jun 23 02:57	25° II 31'24	
desc. node	10882 Apr 07 04:15	10° Y 54'35			10888 Aug 03 20:15	0° B	
morning rise	10882 Apr 11 05:11	11° Y 24'16		retrograde	10888 Oct 03 13:05	2° B 55'14	
retrograde	10882 Jul 21 06:18	18° Y 54'03			10888 Dec 06 17:41	30° R II	
opposition	10882 Sep 27 10:40	15° Y 33'05	-0°14'17	opposition	10888 Dec 12 11:55	29° II 33'53	-2°18'13
min. Earth dist.	10882 Sep 27 15:10	15° Y 32'13	8.53547 AU	min. Earth dist.	10888 Dec 12 06:12	29° II 34'58	8.74124 AU
direct	10882 Dec 06 06:05	12° Y 08'18		direct	10889 Feb 20 03:58	26° II 13'01	
evening set	10883 Mar 20 19:24	19° Y 49'27			10889 Apr 30 19:07	0° B	
				evening set	10889 Jun 01 19:50	3° B 32'59	
conjunction	10883 Apr 06 23:56	21° Y 56'31	-0°24'07				
minimum elong	10883 Apr 06 23:55	21° Y 56'31	0°24'18	conjunction	10889 Jun 18 13:42	5° B 34'35	-1°53'53
max. Earth dist.	10883 Apr 06 19:07	21° Y 55'02	10.55770 AU	minimum elong	10889 Jun 18 13:42	5° B 34'35	1°54'29
morning rise	10883 Apr 24 01:34	24° Y 02'47		max. Earth dist.	10889 Jun 18 20:42	5° B 36'44	10.74589 AU
	10883 Jun 22 03:34	0° B		morning rise	10889 Jul 05 08:37	7° B 36'28	
retrograde	10883 Aug 03 02:52	1° B 30'15		retrograde	10889 Oct 16 03:49	15° B 01'09	
	10883 Sep 15 06:42	30° R Y		opposition	10889 Dec 25 07:00	11° B 39'27	-2°20'20
opposition	10883 Oct 10 15:29	28° Y 09'29	-0°44'27	min. Earth dist.	10889 Dec 24 24:00	11° B 40'47	8.75099 AU
min. Earth dist.	10883 Oct 10 18:44	28° Y 08'52	8.57971 AU	direct	10890 Mar 04 19:35	8° B 19'00	
direct	10883 Dec 19 14:13	24° Y 45'24		evening set	10890 Jun 14 00:17	15° B 37'02	
	10884 Mar 12 06:33	0° B					
evening set	10884 Apr 01 16:12	2° B 22'24		conjunction	10890 Jun 30 18:44	17° B 38'40	-1°53'06
				minimum elong	10890 Jun 30 18:45	17° B 38'40	1°53'42
conjunction	10884 Apr 18 17:54	4° B 28'09	-0°47'43	max. Earth dist.	10890 Jul 01 03:40	17° B 41'23	10.75094 AU
minimum elong	10884 Apr 18 17:52	4° B 28'09	0°48'01	morning rise	10890 Jul 17 14:45	19° B 40'44	
max. Earth dist.	10884 Apr 18 14:45	4° B 27'11	10.60127 AU	retrograde	10890 Oct 28 20:36	27° B 06'42	
morning rise	10884 May 05 17:23	6° B 33'14		opposition	10891 Jan 07 01:20	23° B 44'35	-2°16'15
retrograde	10884 Aug 14 21:39	13° B 58'54		min. Earth dist.	10891 Jan 06 16:47	23° B 46'12	8.75129 AU
opposition	10884 Oct 22 18:20	10° B 38'12	-1°12'12	direct	10891 Mar 17 08:15	20° B 24'26	
min. Earth dist.	10884 Oct 22 19:52	10° B 37'54	8.62247 AU	evening set	10891 Jun 26 04:57	27° B 41'12	
direct	10884 Dec 31 18:32	7° B 14'48					

conjunction	10891 Jul 13 00:47	29°  43'09	-1°47'19	evening set	10897 Sep 07 13:34	11°  27'21	
minimum elong	10891 Jul 13 00:48	29°  43'10	1°47'52				
max. Earth dist.	10891 Jul 13 11:24	29°  46'23	10.74666 AU	conjunction	10897 Sep 25 01:27	13°  35'36	0°07'27
	10891 Jul 15 08:09	0°  ♂		minimum elong	10897 Sep 25 01:26	13°  35'36	0°07'33
morning rise	10891 Jul 29 22:34	1°  ♂45'43		behind sun begin	10897 Sep 24 18:54	13°  33'37	
retrograde	10891 Nov 10 13:50	9°  ♂13'19		behind sun end	10897 Sep 25 07:58	13°  37'35	
opposition	10892 Jan 19 19:10	5°  ♂50'44	-2°06'07	max. Earth dist.	10897 Sep 25 07:26	13°  37'25	10.56169 AU
min. Earth dist.	10892 Jan 19 09:39	5°  ♂52'33	8.74224 AU	morning rise	10897 Oct 12 16:26	15°  ♂44'49	
direct	10892 Mar 28 19:59	2°  ♂30'44		retrograde	10898 Jan 25 13:56	23°  ♂26'53	
evening set	10892 Jul 07 10:42	9°  ♂47'00		opposition	10898 Apr 04 16:39	20°  ♂01'34	0°24'45
				min. Earth dist.	10898 Apr 04 12:37	20°  ♂02'22	8.53829 AU
conjunction	10892 Jul 24 08:27	11°  ♂49'34	-1°36'45	direct	10898 Jun 11 10:11	16°  ♂39'14	
minimum elong	10892 Jul 24 08:29	11°  ♂49'34	1°37'14	evening set	10898 Sep 20 18:13	24°  ♂08'44	
max. Earth dist.	10892 Jul 24 19:23	11°  ♂52'53	10.73333 AU				
morning rise	10892 Aug 10 08:47	13°  ♂52'53		conjunction	10898 Oct 08 08:26	26°  ♂18'16	0°32'09
	10892 Aug 19 21:50	15°  ♂		minimum elong	10898 Oct 08 08:25	26°  ♂18'15	0°32'22
retrograde	10892 Nov 22 09:10	21°  ♂22'27		max. Earth dist.	10898 Oct 08 11:20	26°  ♂19'09	10.51472 AU
opposition	10893 Jan 31 13:01	17°  ♂59'23	-1°50'20	morning rise	10898 Oct 26 01:34	28°  ♂28'39	
min. Earth dist.	10893 Jan 31 03:45	18°  ♂01'10	8.72431 AU		10898 Nov 07 22:13	0°  ♂	
	10893 Mar 21 05:13	15°  ♂♂		retrograde	10899 Feb 07 21:54	6°  ♂13'19	
direct	10893 Apr 10 07:19	14°  ♂39'23		opposition	10899 Apr 17 16:57	2°  ♂47'44	0°54'41
	10893 Apr 30 05:42	15°  ♂		min. Earth dist.	10899 Apr 17 15:22	2°  ♂48'03	8.49135 AU
evening set	10893 Jul 19 18:26	21°  ♂55'54			10899 May 29 09:20	30°  ♂♂	
				direct	10899 Jun 24 08:20	29°  ♂24'34	
conjunction	10893 Aug 05 18:34	23°  ♂59'19	-1°21'48		10899 Jul 20 03:27	0°  ♂	
minimum elong	10893 Aug 05 18:36	23°  ♂59'20	1°22'12	evening set	10899 Oct 04 04:16	6°  ♂58'42	
max. Earth dist.	10893 Aug 06 04:55	24°  ♂02'28	10.71159 AU				
morning rise	10893 Aug 22 21:54	26°  ♂03'39		conjunction	10899 Oct 21 20:26	9°  ♂09'22	0°55'31
	10893 Sep 27 20:44	0°  ♂♂		minimum elong	10899 Oct 21 20:24	9°  ♂09'21	0°55'51
retrograde	10893 Dec 05 05:39	3°  ♂♂35'25		max. Earth dist.	10899 Oct 21 20:52	9°  ♂09'30	10.46833 AU
opposition	10894 Feb 13 07:10	0°  ♂♂11'53	-1°29'31	morning rise	10899 Nov 08 14:56	11°  ♂20'45	
min. Earth dist.	10894 Feb 12 22:34	0°  ♂♂13'32	8.69841 AU		10899 Dec 10 20:11	15°  ♂	
	10894 Feb 15 21:09	30°  ♂♂♂♂		retrograde	10900 Feb 21 07:51	19°  ♂07'41	
direct	10894 Apr 22 18:42	26°  ♂51'43		opposition	10900 Apr 30 19:03	15°  ♂41'57	1°22'12
	10894 Jun 23 22:55	0°  ♂♂		min. Earth dist.	10900 Apr 30 19:13	15°  ♂41'55	8.44670 AU
evening set	10894 Aug 01 05:01	4°  ♂♂09'17			10900 May 09 15:23	15°  ♂♂	
				direct	10900 Jul 07 09:57	12°  ♂17'54	
conjunction	10894 Aug 18 08:03	6°  ♂♂13'46	-1°03'05		10900 Sep 02 03:52	15°  ♂	
minimum elong	10894 Aug 18 08:05	6°  ♂♂13'47	1°03'23	evening set	10900 Oct 17 19:14	19°  ♂56'52	
max. Earth dist.	10894 Aug 18 18:02	6°  ♂♂16'49	10.68246 AU				
morning rise	10894 Sep 04 14:33	8°  ♂♂19'15		conjunction	10900 Nov 04 12:49	22°  ♂08'30	1°16'17
retrograde	10894 Dec 18 03:01	15°  ♂♂53'28		minimum elong	10900 Nov 04 12:47	22°  ♂08'29	1°16'43
opposition	10895 Feb 26 01:53	12°  ♂♂29'27	-1°04'29	max. Earth dist.	10900 Nov 04 11:31	22°  ♂08'06	10.42562 AU
min. Earth dist.	10895 Feb 25 17:49	12°  ♂♂31'00	8.66573 AU	morning rise	10900 Nov 22 07:56	24°  ♂20'39	
direct	10895 May 05 08:59	9°  ♂♂08'57			10901 Jan 15 01:31	0°  ♂♂	
evening set	10895 Aug 13 19:15	16°  ♂♂28'21		retrograde	10901 Mar 06 19:10	2°  ♂♂09'23	
					10901 Apr 27 15:15	30°  ♂♂♂♂	
conjunction	10895 Aug 31 01:27	18°  ♂♂34'04	-0°41'20	opposition	10901 May 13 23:16	28°  ♂43'35	1°45'47
minimum elong	10895 Aug 31 01:28	18°  ♂♂34'04	0°41'30	min. Earth dist.	10901 May 14 00:39	28°  ♂43'18	8.40720 AU
max. Earth dist.	10895 Aug 31 11:20	18°  ♂♂37'05	10.64704 AU	direct	10901 Jul 20 15:39	25°  ♂18'41	
morning rise	10895 Sep 17 11:01	20°  ♂♂40'47			10901 Oct 05 10:46	0°  ♂♂	
retrograde	10895 Dec 31 04:29	28°  ♂♂17'35		evening set	10901 Oct 31 14:19	3°  ♂♂02'18	
opposition	10896 Mar 09 21:27	24°  ♂♂53'04	-0°36'16				
min. Earth dist.	10896 Mar 09 13:47	24°  ♂♂54'33	8.62735 AU	conjunction	10901 Nov 18 08:46	5°  ♂♂14'42	1°33'17
direct	10896 May 16 23:33	21°  ♂♂32'07		minimum elong	10901 Nov 18 08:44	5°  ♂♂14'41	1°33'48
evening set	10896 Aug 25 13:59	28°  ♂♂54'07		max. Earth dist.	10901 Nov 18 05:44	5°  ♂♂13'45	10.38924 AU
	10896 Sep 03 15:34	0°  ♂		morning rise	10901 Dec 06 03:53	7°  ♂♂27'22	
				retrograde	10902 Mar 20 08:42	15°  ♂♂17'13	
conjunction	10896 Sep 11 23:11	1°  ♂♂01'06	-0°17'31	opposition	10902 May 27 05:22	11°  ♂♂51'29	2°04'05
minimum elong	10896 Sep 11 23:11	1°  ♂♂01'06	0°17'32	min. Earth dist.	10902 May 27 08:10	11°  ♂♂50'55	8.37509 AU
max. Earth dist.	10896 Sep 12 07:49	1°  ♂♂03'44	10.60637 AU	direct	10902 Aug 02 23:06	8°  ♂♂25'46	
morning rise	10896 Sep 29 11:36	3°  ♂♂09'05		evening set	10902 Nov 14 12:55	16°  ♂♂13'37	
retrograde	10897 Jan 12 08:39	10°  ♂♂48'29					
opposition	10897 Mar 22 18:12	7°  ♂♂23'32	-0°06'04	conjunction	10902 Dec 02 07:39	18°  ♂♂26'33	1°45'30
min. Earth dist.	10897 Mar 22 11:55	7°  ♂♂24'45	8.58441 AU	minimum elong	10902 Dec 02 07:37	18°  ♂♂26'32	1°46'05
direct	10897 May 29 14:48	4°  ♂♂01'57		max. Earth dist.	10902 Dec 02 02:24	18°  ♂♂24'54	10.36119 AU
asc. node	10897 Jun 04 08:57	4°  ♂♂03'42		morning rise	10902 Dec 20 02:17	20°  ♂♂39'31	

retrograde	10903 Apr 02 23:11	28° \mathbb{A} 29'34		morning rise	10909 Mar 11 00:48	9° \mathbb{H} 55'56	
opposition	10903 Jun 09 13:00	25° \mathbb{A} 04'04	2°15'57	retrograde	10909 Jun 20 09:35	17° \mathbb{H} 32'34	
min. Earth dist.	10903 Jun 09 17:44	25° \mathbb{A} 03'07	8.35204 AU	opposition	10909 Aug 26 23:32	14° \mathbb{H} 10'09	1°01'19
direct	10903 Aug 16 09:29	21° \mathbb{A} 37'37		min. Earth dist.	10909 Aug 27 06:49	14° \mathbb{H} 08'43	8.42927 AU
evening set	10903 Nov 28 13:34	29° \mathbb{A} 29'00		direct	10909 Nov 04 08:24	10° \mathbb{H} 43'22	
	10903 Dec 02 17:49	0° \mathbb{B}		evening set	10910 Feb 17 14:12	18° \mathbb{H} 33'11	
conjunction	10903 Dec 16 08:06	1° \mathbb{B} 42'12	1°52'12	conjunction	10910 Mar 07 01:06	20° \mathbb{H} 43'17	0°37'32
minimum elong	10903 Dec 16 08:05	1° \mathbb{B} 42'12	1°52'48	minimum elong	10910 Mar 07 01:07	20° \mathbb{H} 43'18	0°37'41
max. Earth dist.	10903 Dec 16 00:17	1° \mathbb{B} 39'45	10.34297 AU	max. Earth dist.	10910 Mar 06 16:19	20° \mathbb{H} 40'32	10.44961 AU
morning rise	10904 Jan 03 01:55	3° \mathbb{B} 55'14		morning rise	10910 Mar 24 08:43	22° \mathbb{H} 52'24	
retrograde	10904 Apr 15 12:36	11° \mathbb{B} 44'39			10910 Jun 11 12:30	0° \mathbb{Y}	
opposition	10904 Jun 21 22:07	8° \mathbb{B} 19'30	2°20'39	retrograde	10910 Jul 03 12:00	0° \mathbb{Y} 25'52	
min. Earth dist.	10904 Jun 22 04:42	8° \mathbb{B} 18'10	8.33922 AU		10910 Jul 25 15:48	30° \mathbb{R} \mathbb{H}	
direct	10904 Aug 28 23:37	4° \mathbb{B} 52'27		opposition	10910 Sep 09 07:31	27° \mathbb{H} 04'03	0°31'29
evening set	10904 Dec 11 14:40	12° \mathbb{B} 46'23		min. Earth dist.	10910 Sep 09 14:09	27° \mathbb{H} 02'46	8.47138 AU
				direct	10910 Nov 17 21:38	23° \mathbb{H} 37'58	
conjunction	10904 Dec 29 08:40	14° \mathbb{B} 59'36	1°52'57		10911 Feb 19 03:41	0° \mathbb{Y}	
minimum elong	10904 Dec 29 08:41	14° \mathbb{B} 59'36	1°53'32	evening set	10911 Mar 02 21:54	1° \mathbb{Y} 24'23	
max. Earth dist.	10904 Dec 28 23:04	14° \mathbb{B} 56'35	10.33546 AU				
morning rise	10905 Jan 16 01:22	17° \mathbb{B} 12'28		conjunction	10911 Mar 20 06:18	3° \mathbb{Y} 33'17	0°12'48
retrograde	10905 Apr 28 23:45	25° \mathbb{B} 00'26		minimum elong	10911 Mar 20 06:19	3° \mathbb{Y} 33'17	0°12'49
opposition	10905 Jul 05 08:02	21° \mathbb{B} 35'43	2°17'51	behind sun begin	10911 Mar 20 01:52	3° \mathbb{Y} 31'55	
min. Earth dist.	10905 Jul 05 15:39	21° \mathbb{B} 34'11	8.33719 AU	behind sun end	10911 Mar 20 10:45	3° \mathbb{Y} 34'39	
direct	10905 Sep 11 16:35	18° \mathbb{B} 08'17		max. Earth dist.	10911 Mar 19 22:41	3° \mathbb{Y} 30'55	10.49405 AU
evening set	10905 Dec 25 15:13	26° \mathbb{B} 03'35		morning rise	10911 Apr 06 11:38	5° \mathbb{Y} 41'15	
				retrograde	10911 Jul 16 11:12	13° \mathbb{Y} 11'49	
conjunction	10906 Jan 12 08:30	28° \mathbb{B} 16'38	1°47'41	opposition	10911 Sep 22 14:07	9° \mathbb{Y} 50'31	0°00'24
minimum elong	10906 Jan 12 08:31	28° \mathbb{B} 16'38	1°48'14	min. Earth dist.	10911 Sep 22 19:00	9° \mathbb{Y} 49'34	8.51728 AU
max. Earth dist.	10906 Jan 11 22:04	28° \mathbb{B} 13'21	10.33897 AU	desc. node	10911 Sep 27 09:30	9° \mathbb{Y} 28'10	
	10906 Jan 26 01:53	0° \mathbb{A}		direct	10911 Dec 01 09:16	6° \mathbb{Y} 25'15	
morning rise	10906 Jan 29 23:48	0° \mathbb{A} 29'05		evening set	10912 Mar 15 01:01	14° \mathbb{Y} 07'51	
retrograde	10906 May 12 11:08	8° \mathbb{A} 14'51					
opposition	10906 Jul 18 18:14	4° \mathbb{A} 50'39	2°07'43	conjunction	10912 Apr 01 06:50	16° \mathbb{Y} 15'27	-0°12'26
min. Earth dist.	10906 Jul 19 02:06	4° \mathbb{A} 49'04	8.34593 AU	minimum elong	10912 Apr 01 06:49	16° \mathbb{Y} 15'26	0°12'33
direct	10906 Sep 25 08:55	1° \mathbb{A} 23'02		behind sun begin	10912 Apr 01 02:13	16° \mathbb{Y} 14'01	
evening set	10907 Jan 08 13:58	9° \mathbb{A} 18'31		behind sun end	10912 Apr 01 11:26	16° \mathbb{Y} 16'51	
				max. Earth dist.	10912 Apr 01 01:39	16° \mathbb{Y} 13'51	10.54107 AU
conjunction	10907 Jan 26 06:15	11° \mathbb{A} 31'10	1°36'42	morning rise	10912 Apr 18 09:43	18° \mathbb{Y} 22'11	
minimum elong	10907 Jan 26 06:17	11° \mathbb{A} 31'11	1°37'12	retrograde	10912 Jul 28 09:11	25° \mathbb{Y} 50'16	
max. Earth dist.	10907 Jan 25 19:58	11° \mathbb{A} 27'56	10.35316 AU	opposition	10912 Oct 04 19:07	22° \mathbb{Y} 29'23	-0°30'22
morning rise	10907 Feb 12 19:51	13° \mathbb{A} 43'02		min. Earth dist.	10912 Oct 04 21:49	22° \mathbb{Y} 28'52	8.56478 AU
	10907 Feb 23 09:36	15° \mathbb{A}		direct	10912 Dec 13 17:54	19° \mathbb{Y} 05'01	
retrograde	10907 May 25 21:09	21° \mathbb{A} 26'02		evening set	10913 Mar 27 23:37	26° \mathbb{Y} 43'33	
opposition	10907 Aug 01 04:33	18° \mathbb{A} 02'22	1°50'51				
min. Earth dist.	10907 Aug 01 12:06	18° \mathbb{A} 00'52	8.36489 AU	conjunction	10913 Apr 14 02:47	28° \mathbb{Y} 49'50	-0°36'44
	10907 Sep 17 00:42	15° \mathbb{R} \mathbb{A}		minimum elong	10913 Apr 14 02:46	28° \mathbb{Y} 49'49	0°37'00
direct	10907 Oct 09 01:24	14° \mathbb{A} 34'49		max. Earth dist.	10913 Apr 14 00:18	28° \mathbb{Y} 49'04	10.58837 AU
	10907 Oct 31 00:35	15° \mathbb{A}			10913 Apr 23 13:56	0° \mathbb{B}	
evening set	10908 Jan 22 09:46	22° \mathbb{A} 29'21		morning rise	10913 May 01 03:14	0° \mathbb{B} 55'21	
				retrograde	10913 Aug 10 06:22	8° \mathbb{B} 21'24	
conjunction	10908 Feb 09 00:39	24° \mathbb{A} 41'21	1°20'41	opposition	10913 Oct 17 22:30	5° \mathbb{B} 00'50	-0°59'21
minimum elong	10908 Feb 09 00:41	24° \mathbb{A} 41'22	1°21'06	min. Earth dist.	10913 Oct 17 23:22	5° \mathbb{B} 00'40	8.61153 AU
max. Earth dist.	10908 Feb 08 15:00	24° \mathbb{A} 38'19	10.37721 AU	direct	10913 Dec 26 21:47	1° \mathbb{B} 37'22	
morning rise	10908 Feb 26 12:20	26° \mathbb{A} 52'27		evening set	10914 Apr 09 18:09	9° \mathbb{B} 11'49	
	10908 Mar 24 07:27	0° \mathbb{H}					
retrograde	10908 Jun 07 04:34	4° \mathbb{H} 32'21		conjunction	10914 Apr 26 18:34	11° \mathbb{B} 16'48	-0°59'07
opposition	10908 Aug 13 14:30	1° \mathbb{H} 09'18	1°28'16	minimum elong	10914 Apr 26 18:32	11° \mathbb{B} 16'47	0°59'30
min. Earth dist.	10908 Aug 13 21:56	1° \mathbb{H} 07'49	8.39313 AU	max. Earth dist.	10914 Apr 26 18:13	11° \mathbb{B} 16'41	10.63367 AU
	10908 Aug 28 11:11	30° \mathbb{R} \mathbb{A}		morning rise	10914 May 13 16:47	13° \mathbb{B} 21'10	
direct	10908 Oct 21 17:38	27° \mathbb{A} 42'02			10914 May 27 16:33	15° \mathbb{B}	
	10908 Dec 13 15:16	0° \mathbb{H}		retrograde	10914 Aug 22 23:55	20° \mathbb{B} 45'41	
evening set	10909 Feb 04 02:02	5° \mathbb{H} 34'36		opposition	10914 Oct 31 00:11	17° \mathbb{B} 25'19	-1°25'16
				min. Earth dist.	10914 Oct 30 23:48	17° \mathbb{B} 25'24	8.65538 AU
conjunction	10909 Feb 21 15:07	7° \mathbb{H} 45'45	1°00'35		10914 Dec 05 12:27	15° \mathbb{R} \mathbb{B}	
minimum elong	10909 Feb 21 15:09	7° \mathbb{H} 45'45	1°00'53	direct	10915 Jan 08 23:48	14° \mathbb{B} 02'43	
max. Earth dist.	10909 Feb 21 05:51	7° \mathbb{H} 42'51	10.40994 AU		10915 Feb 11 22:34	15° \mathbb{B}	

evening set	10915 Apr 22 08:48	21°♄33'14	evening set	10921 Jul 03 01:43	4°♄20'46
conjunction	10915 May 09 06:40	23°♄37'01 -1°18'35	conjunction	10921 Jul 19 22:24	6°♄23'02 -1°42'11
minimum elong	10915 May 09 06:38	23°♄37'00 1°19'02	minimum elong	10921 Jul 19 22:26	6°♄23'02 1°42'42
max. Earth dist.	10915 May 09 07:40	23°♄37'19 10.67502 AU	max. Earth dist.	10921 Jul 20 06:58	6°♄25'38 10.74169 AU
morning rise	10915 May 26 03:09	25°♄40'23	morning rise	10921 Aug 05 21:33	8°♄25'59
	10915 Jul 04 22:10	0°♄		10921 Oct 15 09:26	15°♄
retrograde	10915 Sep 04 16:14	3°♄03'55	retrograde	10921 Nov 17 17:16	15°♄54'46
	10915 Nov 09 09:46	30°♄♄		10921 Dec 21 12:58	15°♄♄
opposition	10915 Nov 13 00:13	29°♄43'37 -1°47'00	opposition	10922 Jan 26 22:06	12°♄32'06 -1°58'19
min. Earth dist.	10915 Nov 12 22:23	29°♄43'58 8.69434 AU	min. Earth dist.	10922 Jan 26 14:18	12°♄33'35 8.73202 AU
direct	10916 Jan 21 23:37	26°♄21'48	direct	10922 Apr 05 20:20	9°♄12'08
	10916 Mar 30 08:21	0°♄		10922 Jul 02 16:11	15°♄
evening set	10916 May 03 19:51	3°♄48'36	evening set	10922 Jul 15 08:26	16°♄28'44
conjunction	10916 May 20 15:44	5°♄51'23 -1°34'18	conjunction	10922 Aug 01 07:29	18°♄31'48 -1°29'15
minimum elong	10916 May 20 15:42	5°♄51'22 1°34'50	minimum elong	10922 Aug 01 07:32	18°♄31'48 1°29'43
max. Earth dist.	10916 May 20 18:35	5°♄52'15 10.71038 AU	max. Earth dist.	10922 Aug 01 17:21	18°♄34'48 10.71833 AU
morning rise	10916 Jun 06 10:58	7°♄53'56	morning rise	10922 Aug 18 09:17	20°♄35'42
retrograde	10916 Sep 16 07:52	15°♄17'02	retrograde	10922 Nov 30 13:48	28°♄06'45
opposition	10916 Nov 24 22:29	11°♄56'37 -2°03'44	opposition	10923 Feb 08 16:18	24°♄43'21 -1°39'49
min. Earth dist.	10916 Nov 24 18:45	11°♄57'20 8.72618 AU	min. Earth dist.	10923 Feb 08 07:51	24°♄44'58 8.70431 AU
direct	10917 Feb 02 19:55	8°♄35'30	direct	10923 Apr 18 07:34	21°♄23'07
evening set	10917 May 16 04:10	15°♄59'00	evening set	10923 Jul 27 17:47	28°♄40'29
				10923 Aug 07 17:16	0°♄♄
conjunction	10917 Jun 01 22:46	18°♄01'02 -1°45'41	conjunction	10923 Aug 13 19:34	0°♄44'35 -1°12'14
minimum elong	10917 Jun 01 22:45	18°♄01'01 1°46'16	minimum elong	10923 Aug 13 19:36	0°♄44'35 1°12'36
max. Earth dist.	10917 Jun 02 03:49	18°♄02'34 10.73756 AU	max. Earth dist.	10923 Aug 14 05:20	0°♄47'33 10.68715 AU
morning rise	10917 Jun 18 17:12	20°♄03'02	morning rise	10923 Aug 31 00:27	2°♄49'37
retrograde	10917 Sep 28 22:46	27°♄26'14	retrograde	10923 Dec 13 11:12	10°♄23'07
opposition	10917 Dec 07 19:08	24°♄05'35 -2°14'48	opposition	10924 Feb 21 10:48	6°♄59'01 -1°16'40
min. Earth dist.	10917 Dec 07 13:36	24°♄06'38 8.74872 AU	min. Earth dist.	10924 Feb 21 02:52	7°♄00'33 8.66941 AU
direct	10918 Feb 15 14:06	20°♄45'02	direct	10924 Apr 29 20:19	3°♄38'21
evening set	10918 May 28 10:26	28°♄05'48	evening set	10924 Aug 08 06:27	10°♄57'19
	10918 Jun 13 04:10	0°♄♄			
conjunction	10918 Jun 14 04:26	0°♄07'23 -1°52'19	conjunction	10924 Aug 25 11:09	13°♄02'37 -0°51'49
minimum elong	10918 Jun 14 04:25	0°♄07'23 1°52'54	minimum elong	10924 Aug 25 11:10	13°♄02'38 0°52'03
max. Earth dist.	10918 Jun 14 11:17	0°♄09'29 10.75460 AU	max. Earth dist.	10924 Aug 25 19:38	13°♄05'13 10.64948 AU
morning rise	10918 Jun 30 22:48	2°♄09'08	morning rise	10924 Sep 11 19:19	15°♄08'55
retrograde	10918 Oct 11 15:15	9°♄33'05	retrograde	10924 Dec 25 11:24	22°♄45'04
opposition	10918 Dec 20 14:51	6°♄12'05 -2°19'51	opposition	10925 Mar 05 06:13	19°♄20'20 -0°49'48
min. Earth dist.	10918 Dec 20 08:21	6°♄13'19 8.76039 AU	min. Earth dist.	10925 Mar 04 23:34	19°♄21'37 8.62879 AU
direct	10919 Feb 28 05:11	2°♄51'59	direct	10925 May 12 09:56	15°♄59'05
evening set	10919 Jun 09 15:28	10°♄10'39	evening set	10925 Aug 20 23:00	23°♄20'27
conjunction	10919 Jun 26 09:31	12°♄12'09 -1°53'56	conjunction	10925 Sep 07 06:43	25°♄27'01 -0°28'50
minimum elong	10919 Jun 26 09:31	12°♄12'09 1°54'32	minimum elong	10925 Sep 07 06:45	25°♄27'02 0°28'55
max. Earth dist.	10919 Jun 26 16:53	12°♄14'23 10.76065 AU	max. Earth dist.	10925 Sep 07 13:58	25°♄29'14 10.60687 AU
morning rise	10919 Jul 13 04:47	14°♄14'00	morning rise	10925 Sep 24 18:02	27°♄34'39
retrograde	10919 Oct 24 07:42	21°♄39'11		10925 Oct 15 18:05	0°♄♄
opposition	10920 Jan 02 09:48	18°♄17'45 -2°18'43	retrograde	10926 Jan 07 13:08	5°♄13'34
min. Earth dist.	10920 Jan 02 03:04	18°♄19'02 8.76102 AU	opposition	10926 Mar 18 02:49	1°♄48'15 -0°20'19
direct	10920 Mar 11 17:33	14°♄57'53	min. Earth dist.	10926 Mar 17 21:16	1°♄49'20 8.58420 AU
evening set	10920 Jun 20 20:19	22°♄15'11		10926 Apr 11 12:09	30°♄♄
			direct	10926 May 25 01:55	28°♄26'20
conjunction	10920 Jul 07 15:15	24°♄16'54 -1°50'30		10926 Jul 06 16:58	0°♄♄
minimum elong	10920 Jul 07 15:17	24°♄16'54 1°51'05	evening set	10926 Sep 02 20:19	5°♄50'52
max. Earth dist.	10920 Jul 07 22:54	24°♄19'13 10.75610 AU			
morning rise	10920 Jul 24 12:13	26°♄19'10	conjunction	10926 Sep 20 07:04	7°♄58'47 -0°04'19
	10920 Aug 26 21:12	0°♄	minimum elong	10926 Sep 20 07:04	7°♄58'47 0°04'17
retrograde	10920 Nov 04 22:44	3°♄45'59	behind sun begin	10926 Sep 20 00:00	7°♄56'38
opposition	10921 Jan 14 04:01	0°♄23'59 -2°11'27	behind sun end	10926 Sep 20 14:08	8°♄00'56
min. Earth dist.	10921 Jan 13 21:02	0°♄25'18 8.75127 AU	max. Earth dist.	10926 Sep 20 13:32	8°♄00'45 10.56110 AU
	10921 Jan 19 10:40	30°♄♄	morning rise	10926 Oct 07 21:06	10°♄07'42
direct	10921 Mar 24 07:25	27°♄04'08	asc. node	10926 Nov 24 09:04	15°♄10'59
	10921 May 23 14:10	0°♄	retrograde	10927 Jan 20 16:54	17°♄49'24

opposition	10927 Mar 31 00:41	14° <u>♂</u> 23'35	0°10'26	min. Earth dist.	10933 Jun 16 08:16	2° <u>♂</u> 29'45	8.33775 AU
min. Earth dist.	10927 Mar 30 19:57	14° <u>♂</u> 24'30	8.53759 AU		10933 Jul 21 06:16	30° <u>♂</u> ♂	
direct	10927 Jun 06 21:11	11° <u>♂</u> 00'56		direct	10933 Aug 23 03:27	29° <u>♂</u> 03'55	
evening set	10927 Sep 15 22:50	18° <u>♂</u> 29'17		evening set	10933 Sep 24 18:51	0° <u>♂</u>	
					10933 Dec 05 13:08	6° <u>♂</u> 57'22	
conjunction	10927 Oct 03 12:15	20° <u>♂</u> 38'31	0°20'45				
minimum elong	10927 Oct 03 12:14	20° <u>♂</u> 38'31	0°20'55	conjunction	10933 Dec 23 07:37	9° <u>♂</u> 10'44	1°53'13
max. Earth dist.	10927 Oct 03 17:31	20° <u>♂</u> 40'08	10.51419 AU	minimum elong	10933 Dec 23 07:37	9° <u>♂</u> 10'44	1°53'50
morning rise	10927 Oct 21 04:30	22° <u>♂</u> 48'38		max. Earth dist.	10933 Dec 23 01:03	9° <u>♂</u> 08'40	10.33350 AU
	10928 Jan 08 17:06	0° <u>♂</u>		morning rise	10934 Jan 10 00:50	11° <u>♂</u> 23'49	
retrograde	10928 Feb 03 01:16	0° <u>♂</u> 33'00		retrograde	10934 Apr 23 06:14	19° <u>♂</u> 13'10	
	10928 Feb 28 11:18	30° <u>♂</u> ♂		opposition	10934 Jun 29 14:19	15° <u>♂</u> 48'24	2°19'52
opposition	10928 Apr 12 00:21	27° <u>♂</u> 06'49	0°41'01	min. Earth dist.	10934 Jun 29 19:49	15° <u>♂</u> 47'18	8.33469 AU
min. Earth dist.	10928 Apr 11 20:40	27° <u>♂</u> 07'33	8.49104 AU	direct	10934 Sep 05 18:21	12° <u>♂</u> 21'25	
direct	10928 Jun 18 17:13	23° <u>♂</u> 43'24		evening set	10934 Dec 19 15:08	20° <u>♂</u> 16'42	
	10928 Sep 17 15:32	0° <u>♂</u>					
evening set	10928 Sep 28 06:41	1° <u>♂</u> 16'06		conjunction	10935 Jan 06 08:55	22° <u>♂</u> 29'58	1°50'39
				minimum elong	10935 Jan 06 08:56	22° <u>♂</u> 29'58	1°51'13
conjunction	10928 Oct 15 22:10	3° <u>♂</u> 26'30	0°44'56	max. Earth dist.	10935 Jan 06 00:44	22° <u>♂</u> 27'23	10.33584 AU
minimum elong	10928 Oct 15 22:08	3° <u>♂</u> 26'30	0°45'13	morning rise	10935 Jan 24 00:46	24° <u>♂</u> 42'42	
max. Earth dist.	10928 Oct 16 01:24	3° <u>♂</u> 27'30	10.46835 AU		10935 Mar 13 16:59	0° <u>♂</u>	
morning rise	10928 Nov 02 16:01	5° <u>♂</u> 37'41		retrograde	10935 May 06 20:01	2° <u>♂</u> 30'02	
retrograde	10929 Feb 15 11:27	13° <u>♂</u> 24'26			10935 Jul 01 15:42	30° <u>♂</u> ♂	
opposition	10929 Apr 25 02:01	9° <u>♂</u> 58'05	1°09'53	opposition	10935 Jul 13 01:12	29° <u>♂</u> 05'55	2°12'58
min. Earth dist.	10929 Apr 25 00:04	9° <u>♂</u> 58'28	8.44689 AU	min. Earth dist.	10935 Jul 13 08:06	29° <u>♂</u> 04'32	8.34225 AU
direct	10929 Jul 01 16:35	6° <u>♂</u> 33'52		direct	10935 Sep 19 10:23	25° <u>♂</u> 38'45	
evening set	10929 Oct 11 19:43	14° <u>♂</u> 11'16			10935 Dec 02 17:01	0° <u>♂</u>	
	10929 Oct 18 10:32	15° <u>♂</u>		evening set	10936 Jan 02 15:44	3° <u>♂</u> 34'40	
conjunction	10929 Oct 29 12:42	16° <u>♂</u> 22'41	1°07'04	conjunction	10936 Jan 20 08:28	5° <u>♂</u> 47'35	1°42'10
minimum elong	10929 Oct 29 12:40	16° <u>♂</u> 22'40	1°07'28	minimum elong	10936 Jan 20 08:30	5° <u>♂</u> 47'35	1°42'41
max. Earth dist.	10929 Oct 29 13:02	16° <u>♂</u> 22'47	10.42608 AU	max. Earth dist.	10936 Jan 19 22:46	5° <u>♂</u> 44'31	10.34864 AU
morning rise	10929 Nov 16 07:39	18° <u>♂</u> 34'43		morning rise	10936 Feb 06 22:49	7° <u>♂</u> 59'47	
retrograde	10930 Feb 28 22:41	26° <u>♂</u> 23'26			10936 Apr 20 13:08	15° <u>♂</u>	
opposition	10930 May 08 05:44	22° <u>♂</u> 57'05	1°35'29	retrograde	10936 May 19 06:32	15° <u>♂</u> 44'24	
min. Earth dist.	10930 May 08 06:04	22° <u>♂</u> 57'01	8.40758 AU		10936 Jun 17 05:29	15° <u>♂</u> ♂	
direct	10930 Jul 14 20:28	19° <u>♂</u> 32'05		opposition	10936 Jul 25 12:19	12° <u>♂</u> 20'56	1°59'01
evening set	10930 Oct 25 13:24	27° <u>♂</u> 14'14		min. Earth dist.	10936 Jul 25 20:18	12° <u>♂</u> 19'20	8.35958 AU
				direct	10936 Oct 02 04:49	8° <u>♂</u> 53'46	
conjunction	10930 Nov 12 07:26	29° <u>♂</u> 26'29	1°25'57		10936 Dec 31 09:56	15° <u>♂</u>	
minimum elong	10930 Nov 12 07:24	29° <u>♂</u> 26'28	1°26'26	evening set	10937 Jan 15 13:32	16° <u>♂</u> 49'06	
max. Earth dist.	10930 Nov 12 05:12	29° <u>♂</u> 25'47	10.38969 AU				
	10930 Nov 16 18:42	0° <u>♂</u> ♂		conjunction	10937 Feb 02 04:58	19° <u>♂</u> 01'25	1°28'18
morning rise	10930 Nov 30 02:50	1° <u>♂</u> 39'10		minimum elong	10937 Feb 02 05:00	19° <u>♂</u> 01'26	1°28'45
retrograde	10931 Mar 14 11:15	9° <u>♂</u> 29'14		max. Earth dist.	10937 Feb 01 18:11	18° <u>♂</u> 58'02	10.37047 AU
opposition	10931 May 21 11:28	6° <u>♂</u> 03'05	1°56'22	morning rise	10937 Feb 19 17:42	21° <u>♂</u> 12'56	
min. Earth dist.	10931 May 21 13:39	6° <u>♂</u> 02'38	8.37519 AU	retrograde	10937 Jun 01 14:16	28° <u>♂</u> 54'29	
direct	10931 Jul 28 03:52	2° <u>♂</u> 37'23		opposition	10937 Aug 07 22:57	25° <u>♂</u> 31'37	1°38'50
evening set	10931 Nov 08 11:01	10° <u>♂</u> 24'00		min. Earth dist.	10937 Aug 08 07:16	25° <u>♂</u> 29'58	8.38474 AU
				direct	10937 Oct 15 23:06	22° <u>♂</u> 04'39	
conjunction	10931 Nov 26 05:37	12° <u>♂</u> 36'52	1°40'28	evening set	10938 Jan 29 08:06	29° <u>♂</u> 58'29	
minimum elong	10931 Nov 26 05:35	12° <u>♂</u> 36'51	1°41'02		10938 Jan 29 13:04	0° <u>♂</u> ♂	
max. Earth dist.	10931 Nov 26 01:27	12° <u>♂</u> 35'34	10.36111 AU				
morning rise	10931 Dec 14 00:44	14° <u>♂</u> 49'55		conjunction	10938 Feb 15 22:00	2° <u>♂</u> 10'03	1°09'53
retrograde	10932 Mar 27 01:22	22° <u>♂</u> 40'37		minimum elong	10938 Feb 15 22:02	2° <u>♂</u> 10'03	1°10'13
opposition	10932 Jun 02 18:55	19° <u>♂</u> 14'48	2°11'17	max. Earth dist.	10938 Feb 15 11:12	2° <u>♂</u> 06'39	10.39903 AU
min. Earth dist.	10932 Jun 02 22:22	19° <u>♂</u> 14'07	8.35146 AU	morning rise	10938 Mar 05 08:49	4° <u>♂</u> 20'42	
direct	10932 Aug 09 14:16	15° <u>♂</u> 48'33		retrograde	10938 Jun 14 21:02	11° <u>♂</u> 59'08	
evening set	10932 Nov 21 11:22	23° <u>♂</u> 39'02		opposition	10938 Aug 21 08:50	8° <u>♂</u> 36'53	1°13'38
				min. Earth dist.	10938 Aug 21 16:43	8° <u>♂</u> 35'20	8.41565 AU
conjunction	10932 Dec 09 06:07	25° <u>♂</u> 52'17	1°49'45	direct	10938 Oct 29 15:13	5° <u>♂</u> 10'19	
minimum elong	10932 Dec 09 06:06	25° <u>♂</u> 52'16	1°50'21	evening set	10939 Feb 11 22:51	13° <u>♂</u> 01'54	
max. Earth dist.	10932 Dec 09 00:46	25° <u>♂</u> 50'36	10.34203 AU				
morning rise	10932 Dec 27 00:26	28° <u>♂</u> 05'28		conjunction	10939 Mar 01 10:54	15° <u>♂</u> 12'34	0°47'58
	10933 Jan 11 22:23	0° <u>♂</u>		minimum elong	10939 Mar 01 10:56	15° <u>♂</u> 12'35	0°48'11
retrograde	10933 Apr 09 15:50	5° <u>♂</u> 55'56		max. Earth dist.	10939 Mar 01 01:07	15° <u>♂</u> 09'30	10.43271 AU
opposition	10933 Jun 16 04:01	2° <u>♂</u> 30'36	2°19'17	morning rise	10939 Mar 18 19:31	17° <u>♂</u> 22'16	

retrograde	10939 Jun 28 02:47	24° X 57'42		conjunction	10945 May 15 17:33	0° II 53'00	-1°28'09
opposition	10939 Sep 03 18:05	21° X 36'00	0°44'51	minimum elong	10945 May 15 17:31	0° II 53'00	1°28'40
min. Earth dist.	10939 Sep 04 01:06	21° X 34'38	8.45134 AU	max. Earth dist.	10945 May 15 20:02	0° II 53'46	10.67202 AU
direct	10939 Nov 12 04:51	18° X 09'59		morning rise	10945 Jun 01 13:16	2° II 56'11	
evening set	10940 Feb 25 09:18	25° X 58'38		retrograde	10945 Sep 11 08:02	10° II 20'27	
				opposition	10945 Nov 19 18:11	6° II 59'30	-1°57'25
conjunction	10940 Mar 13 19:05	28° X 08'15	0°23'46	min. Earth dist.	10945 Nov 19 15:09	7° II 00'04	8.68856 AU
minimum elong	10940 Mar 13 19:06	28° X 08'15	0°23'51	direct	10946 Jan 28 16:09	3° II 37'28	
max. Earth dist.	10940 Mar 13 10:49	28° X 05'40	10.47075 AU	evening set	10946 May 11 06:38	11° II 03'25	
	10940 Mar 28 18:23	0° Y					
morning rise	10940 Mar 31 01:23	0° Y 16'52		conjunction	10946 May 28 01:50	13° II 06'03	-1°41'29
retrograde	10940 Jul 10 04:30	7° Y 49'30		minimum elong	10946 May 28 01:48	13° II 06'02	1°42'03
opposition	10940 Sep 16 02:16	4° Y 28'15	0°14'04	max. Earth dist.	10946 May 28 05:57	13° II 07'18	10.70160 AU
min. Earth dist.	10940 Sep 16 08:26	4° Y 27'03	8.49101 AU	morning rise	10946 Jun 13 20:37	15° II 08'34	
direct	10940 Nov 24 17:55	1° Y 02'51		retrograde	10946 Sep 23 22:27	22° II 32'39	
desc. node	10941 Mar 05 00:55	8° Y 14'34		opposition	10946 Dec 02 16:19	19° II 11'29	-2°10'59
evening set	10941 Mar 09 15:31	8° Y 48'03		min. Earth dist.	10946 Dec 02 11:56	19° II 12'19	8.71501 AU
				direct	10947 Feb 10 11:33	15° II 50'02	
conjunction	10941 Mar 26 22:39	10° Y 56'26	-0°01'29	evening set	10947 May 23 14:13	23° II 12'55	
minimum elong	10941 Mar 26 22:41	10° Y 56'26	0°01'32				
behind sun begin	10941 Mar 26 15:33	10° Y 54'14		conjunction	10947 Jun 09 08:22	25° II 14'56	-1°50'11
behind sun end	10941 Mar 27 05:49	10° Y 58'38		minimum elong	10947 Jun 09 08:21	25° II 14'56	1°50'47
max. Earth dist.	10941 Mar 26 15:37	10° Y 54'16	10.51199 AU	max. Earth dist.	10947 Jun 09 13:59	25° II 16'39	10.72410 AU
morning rise	10941 Apr 13 02:40	13° Y 03'55		morning rise	10947 Jun 26 02:57	27° II 17'03	
retrograde	10941 Jul 23 04:01	20° Y 33'59			10947 Jul 19 23:02	0° III	
opposition	10941 Sep 29 08:53	17° Y 13'04	-0°17'07	retrograde	10947 Oct 06 13:43	4° III 41'29	
min. Earth dist.	10941 Sep 29 14:12	17° Y 12'02	8.53322 AU	opposition	10947 Dec 15 12:55	1° III 20'01	-2°18'38
direct	10941 Dec 08 04:33	13° Y 48'19		min. Earth dist.	10947 Dec 15 07:00	1° III 21'08	8.73372 AU
evening set	10942 Mar 22 17:16	21° Y 29'41			10948 Jan 02 15:10	30° R II	
				direct	10948 Feb 23 05:34	27° II 59'04	
conjunction	10942 Apr 08 21:37	23° Y 36'48	-0°26'22		10948 Apr 12 21:23	0° III	
minimum elong	10942 Apr 08 21:36	23° Y 36'47	0°26'34	evening set	10948 Jun 03 19:58	5° III 19'23	
max. Earth dist.	10942 Apr 08 15:52	23° Y 35'01	10.55469 AU				
morning rise	10942 Apr 25 23:19	25° Y 43'06		conjunction	10948 Jun 20 14:01	7° III 21'07	-1°53'56
	10942 Jun 03 17:44	0° Z		minimum elong	10948 Jun 20 14:01	7° III 21'07	1°54'33
retrograde	10942 Aug 05 01:31	3° Z 10'58		max. Earth dist.	10948 Jun 20 21:48	7° III 23'30	10.73842 AU
	10942 Oct 10 11:06	30° R Y		morning rise	10948 Jul 07 09:01	9° III 23'08	
opposition	10942 Oct 12 13:58	29° Y 50'13	-0°47'09	retrograde	10948 Oct 18 05:53	16° III 48'21	
min. Earth dist.	10942 Oct 12 17:29	29° Y 49'33	8.57604 AU	opposition	10948 Dec 27 08:20	13° III 26'30	-2°20'06
direct	10942 Dec 21 11:56	26° Y 26'10		min. Earth dist.	10948 Dec 27 00:27	13° III 28'00	8.74365 AU
	10943 Feb 27 00:50	0° Z		direct	10949 Mar 06 20:17	10° III 05'58	
evening set	10943 Apr 04 14:21	4° Z 03'30		evening set	10949 Jun 16 00:56	17° III 24'20	
conjunction	10943 Apr 21 15:59	6° Z 09'19	-0°49'47	conjunction	10949 Jul 02 19:37	19° III 26'05	-1°52'37
minimum elong	10943 Apr 21 15:58	6° Z 09'19	0°50'07	minimum elong	10949 Jul 02 19:38	19° III 26'05	1°53'13
max. Earth dist.	10943 Apr 21 12:42	6° Z 08'18	10.59687 AU	max. Earth dist.	10949 Jul 03 05:28	19° III 29'05	10.74376 AU
morning rise	10943 May 08 15:25	8° Z 14'29		morning rise	10949 Jul 19 15:42	21° III 28'17	
	10943 Jul 20 20:22	15° Z		retrograde	10949 Oct 30 22:23	28° III 54'42	
retrograde	10943 Aug 17 19:49	15° Z 40'39		opposition	10950 Jan 09 02:55	25° III 32'27	-2°15'20
	10943 Sep 15 07:26	15° R Z		min. Earth dist.	10950 Jan 08 17:47	25° III 34'11	8.74435 AU
opposition	10943 Oct 25 17:14	12° Z 19'55	-1°14'38	direct	10950 Mar 19 09:14	22° III 12'13	
min. Earth dist.	10943 Oct 25 18:15	12° Z 19'43	8.61744 AU	evening set	10950 Jun 28 06:02	29° III 29'17	
direct	10944 Jan 03 17:39	8° Z 56'34			10950 Jul 02 12:38	0° III	
	10944 Apr 03 14:45	15° Z					
evening set	10944 Apr 16 07:17	16° Z 29'52		conjunction	10950 Jul 15 01:59	1° III 31'22	-1°46'18
				minimum elong	10950 Jul 15 02:01	1° III 31'22	1°46'52
conjunction	10944 May 03 06:28	18° Z 34'28	-1°10'41	max. Earth dist.	10950 Jul 15 12:42	1° III 34'37	10.74005 AU
minimum elong	10944 May 03 06:26	18° Z 34'27	1°11'07	morning rise	10950 Aug 01 00:01	3° III 34'03	
max. Earth dist.	10944 May 03 06:20	18° Z 34'25	10.63658 AU	retrograde	10950 Nov 12 16:43	11° III 02'02	
morning rise	10944 May 20 03:49	20° Z 38'32		opposition	10951 Jan 21 21:10	7° III 39'20	-2°04'34
retrograde	10944 Aug 29 14:16	28° Z 03'31		min. Earth dist.	10951 Jan 21 11:46	7° III 41'08	8.73600 AU
opposition	10944 Nov 06 18:31	24° Z 42'42	-1°38'23	direct	10951 Mar 31 20:55	4° III 19'14	
min. Earth dist.	10944 Nov 06 17:05	24° Z 42'58	8.65554 AU	evening set	10951 Jul 10 12:04	11° III 35'44	
direct	10945 Jan 15 19:13	21° Z 20'02					
evening set	10945 Apr 28 20:32	28° Z 49'29		conjunction	10951 Jul 27 09:56	13° III 38'25	-1°35'14
	10945 May 08 12:48	0° III		minimum elong	10951 Jul 27 09:58	13° III 38'26	1°35'44
				max. Earth dist.	10951 Jul 27 20:27	13° III 41'37	10.72757 AU

	10951 Aug 07 14:51	15°♊	evening set	10957 Sep 22 20:32	25°♊58'46	
morning rise	10951 Aug 13 10:37	15°♊41'54				
retrograde	10951 Nov 25 11:05	23°♊11'45	conjunction	10957 Oct 10 10:49	28°♊08'13	0°34'39
opposition	10952 Feb 03 15:13	19°♊48'35 -1°48'13	minimum elong	10957 Oct 10 10:48	28°♊08'13	0°34'54
min. Earth dist.	10952 Feb 03 06:13	19°♊50'18 8.71904 AU	max. Earth dist.	10957 Oct 10 14:04	28°♊09'14	10.51870 AU
direct	10952 Apr 12 08:35	16°♊28'28		10957 Oct 25 14:45	0°♋	
evening set	10952 Jul 21 20:05	23°♊45'12	morning rise	10957 Oct 28 03:57	0°♋18'33	
			retrograde	10958 Feb 09 23:02	8°♋02'51	
conjunction	10952 Aug 07 20:30	25°♊48'44 -1°19'52	opposition	10958 Apr 19 18:28	4°♋37'20	0°57'37
minimum elong	10952 Aug 07 20:32	25°♊48'45 1°20'15	min. Earth dist.	10958 Apr 19 16:36	4°♋37'42	8.49619 AU
max. Earth dist.	10952 Aug 08 07:09	25°♊51'59 10.70689 AU	direct	10958 Jun 26 10:38	1°♋14'12	
morning rise	10952 Aug 25 00:06	27°♊53'11	evening set	10958 Oct 06 06:21	8°♋48'07	
	10952 Sep 12 08:19	0°♌				
retrograde	10952 Dec 07 06:37	5°♌25'10	conjunction	10958 Oct 23 22:36	10°♌58'41	0°57'44
opposition	10953 Feb 15 09:17	2°♌01'32 -1°26'54	minimum elong	10958 Oct 23 22:34	10°♌58'41	0°58'06
min. Earth dist.	10953 Feb 15 00:18	2°♌03'16 8.69427 AU	max. Earth dist.	10958 Oct 23 23:55	10°♌59'06	10.47378 AU
	10953 Mar 15 18:09	30°♌♊	morning rise	10958 Nov 10 16:57	13°♌09'57	
direct	10953 Apr 24 21:56	28°♊41'17		10958 Nov 26 05:10	15°♌	
	10953 Jun 03 02:50	0°♌	retrograde	10959 Feb 23 08:21	20°♌56'29	
evening set	10953 Aug 03 06:56	5°♌59'01	opposition	10959 May 02 20:09	17°♌30'49	1°24'42
			min. Earth dist.	10959 May 02 19:42	17°♌30'55	8.45267 AU
conjunction	10953 Aug 20 10:19	8°♌03'38 -1°00'47		10959 Jun 07 12:06	15°♌♋	
minimum elong	10953 Aug 20 10:21	8°♌03'38 1°01'04	direct	10959 Jul 09 12:18	14°♌06'50	
max. Earth dist.	10953 Aug 20 21:19	8°♌06'59 10.67894 AU		10959 Aug 10 04:24	15°♌	
morning rise	10953 Sep 06 16:56	10°♌09'11	evening set	10959 Oct 19 21:07	21°♌45'32	
retrograde	10953 Dec 20 06:23	17°♌43'33				
opposition	10954 Feb 28 04:00	14°♌19'27 -1°01'30	conjunction	10959 Nov 06 14:43	23°♌57'04	1°18'07
min. Earth dist.	10954 Feb 27 19:01	14°♌21'11 8.66284 AU	minimum elong	10959 Nov 06 14:40	23°♌57'03	1°18'34
direct	10954 May 07 10:40	10°♌58'56	max. Earth dist.	10959 Nov 06 13:49	23°♌56'47	10.43186 AU
evening set	10954 Aug 15 21:21	18°♌18'25	morning rise	10959 Nov 24 09:38	26°♌09'05	
				10959 Dec 28 09:12	0°♍	
conjunction	10954 Sep 02 03:46	20°♌24'13 -0°38'48	retrograde	10960 Mar 07 20:43	3°♍57'20	
minimum elong	10954 Sep 02 03:47	20°♌24'13 0°38'57	opposition	10960 May 14 24:00	0°♍31'38	1°47'45
max. Earth dist.	10954 Sep 02 14:24	20°♌27'27 10.64489 AU	min. Earth dist.	10960 May 15 01:18	0°♍31'23	8.41367 AU
morning rise	10954 Sep 19 13:28	22°♌31'00		10960 May 21 14:59	30°♌♋	
	10954 Dec 20 21:14	0°♎	direct	10960 Jul 21 15:43	27°♌06'48	
retrograde	10955 Jan 02 07:39	0°♎07'51		10960 Sep 18 12:09	0°♍	
	10955 Jan 14 17:56	30°♌♌	evening set	10960 Nov 01 15:59	4°♍50'08	
opposition	10955 Mar 12 23:36	26°♌43'18 -0°33'02				
min. Earth dist.	10955 Mar 12 15:24	26°♌44'54 8.62603 AU	conjunction	10960 Nov 19 10:16	7°♍02'24	1°34'38
direct	10955 May 20 00:33	23°♌22'20	minimum elong	10960 Nov 19 10:13	7°♍02'24	1°35'10
	10955 Aug 22 10:49	0°♎	max. Earth dist.	10960 Nov 19 06:43	7°♍01'18	10.39576 AU
evening set	10955 Aug 28 16:20	0°♎44'25	morning rise	10960 Dec 07 05:13	9°♍14'57	
			retrograde	10961 Mar 21 10:28	17°♍04'15	
conjunction	10955 Sep 15 01:37	2°♎51'26 -0°14'51	opposition	10961 May 28 05:49	13°♍38'40	2°05'24
minimum elong	10955 Sep 15 01:38	2°♎51'27 0°14'52	min. Earth dist.	10961 May 28 09:13	13°♍37'59	8.38166 AU
behind sun begin	10955 Sep 14 22:55	2°♎50'37	direct	10961 Aug 03 23:03	10°♍13'00	
behind sun end	10955 Sep 15 04:20	2°♎52'16	evening set	10961 Nov 15 14:10	18°♍00'34	
max. Earth dist.	10955 Sep 15 10:08	2°♎54'02 10.60602 AU				
morning rise	10955 Oct 02 14:16	4°♎59'28	conjunction	10961 Dec 03 08:40	20°♍13'21	1°46'18
retrograde	10956 Jan 15 10:31	12°♎38'48	minimum elong	10961 Dec 03 08:39	20°♍13'21	1°46'54
opposition	10956 Mar 24 20:16	9°♎13'52 -0°02'46	max. Earth dist.	10961 Dec 03 02:19	20°♍11'22	10.36770 AU
min. Earth dist.	10956 Mar 24 14:09	9°♎15'04 8.58511 AU	morning rise	10961 Dec 21 03:14	22°♍26'12	
asc. node	10956 Apr 27 06:59	6°♎52'34		10962 Mar 17 20:00	0°♎	
direct	10956 May 31 17:10	5°♎52'17	retrograde	10962 Apr 03 22:34	0°♎15'44	
evening set	10956 Sep 09 16:02	13°♎17'41		10962 Apr 21 01:30	30°♌♍	
			opposition	10962 Jun 10 13:10	26°♍50'22	2°16'34
conjunction	10956 Sep 27 03:57	15°♎25'57 0°10'05	min. Earth dist.	10962 Jun 10 18:44	26°♍49'15	8.35846 AU
minimum elong	10956 Sep 27 03:56	15°♎25'56 0°10'12	direct	10962 Aug 17 11:05	23°♍23'58	
behind sun begin	10956 Sep 26 22:14	15°♎24'12		10962 Nov 19 06:13	0°♎	
behind sun end	10956 Sep 27 09:39	15°♎27'41	evening set	10962 Nov 29 14:22	1°♎15'04	
max. Earth dist.	10956 Sep 27 09:41	15°♎27'41 10.56354 AU				
morning rise	10956 Oct 14 19:08	17°♎35'10	conjunction	10962 Dec 17 08:46	3°♎28'08	1°52'25
retrograde	10957 Jan 27 16:11	25°♎16'59	minimum elong	10962 Dec 17 08:45	3°♎28'08	1°53'02
opposition	10957 Apr 06 18:31	21°♎51'43 0°27'57	max. Earth dist.	10962 Dec 17 00:07	3°♎25'25	10.34919 AU
min. Earth dist.	10957 Apr 06 14:42	21°♎52'28 8.54128 AU	morning rise	10963 Jan 04 02:32	5°♎41'02	
direct	10957 Jun 13 11:55	18°♎29'23	retrograde	10963 Apr 17 10:52	13°♎29'58	

opposition	10963 Jun 23 21:54	10°30'45.7" 2°20'33"	opposition	10969 Sep 10 06:42	28°34'46.16" 0°28'33"
min. Earth dist.	10963 Jun 24 04:49	10°30'33.3" 8.34516 AU	min. Earth dist.	10969 Sep 10 13:06	28°34'45.01" 8.47028 AU
direct	10963 Aug 31 01:14	6°33'37.57"	direct	10969 Nov 18 22:12	25°34'20.09"
evening set	10963 Dec 13 15:09	14°33'31.34"	evening set	10970 Feb 04 22:27	0°30'00.00"
conjunction	10963 Dec 31 09:08	16°33'44.42" 1°52'35"	conjunction	10970 Mar 03 20:48	3°30'06.33"
minimum elong	10963 Dec 31 09:08	16°33'44.43" 1°53'12"	conjunction	10970 Mar 21 05:13	5°30'15.27" 0°10'24"
max. Earth dist.	10963 Dec 30 23:25	16°33'41.39" 10.34103 AU	minimum elong	10970 Mar 21 05:13	5°30'15.27" 0°10'24"
morning rise	10964 Jan 18 01:41	18°33'57.26"	behind sun begin	10970 Mar 20 23:36	5°30'13.43"
retrograde	10964 Apr 29 23:27	26°33'44.58"	behind sun end	10970 Mar 21 10:50	5°30'17.11"
opposition	10964 Jul 06 07:31	23°33'20.21" 2°17'03"	max. Earth dist.	10970 Mar 20 21:54	5°30'13.12" 10.49230 AU
min. Earth dist.	10964 Jul 06 14:56	23°33'18.52" 8.34231 AU	morning rise	10970 Apr 07 10:26	7°30'23.25"
direct	10964 Sep 12 16:09	19°33'52.58"	retrograde	10970 Jul 17 10:34	14°30'54.08"
evening set	10964 Dec 26 15:18	27°33'47.58"	desc. node	10970 Aug 23 16:04	13°30'44.38"
conjunction	10965 Jan 13 08:36	0°33'00.56" 1°46'46"	opposition	10970 Sep 23 13:19	11°30'32.46" -0°02'35"
minimum elong	10965 Jan 13 08:37	0°33'00.57" 1°47'20"	min. Earth dist.	10970 Sep 23 17:44	11°30'31.54" 8.51487 AU
max. Earth dist.	10965 Jan 12 22:31	29°33'57.46" 10.34362 AU	direct	10970 Dec 02 08:50	8°30'07.28"
morning rise	10965 Jan 30 23:41	2°33'13.18"	evening set	10971 Mar 16 23:58	15°30'50.08"
retrograde	10965 May 13 10:59	9°33'58.41"	conjunction	10971 Apr 03 05:47	17°30'57.46" -0°14'49"
opposition	10965 Jul 19 17:35	6°33'34.33" 2°06'16"	minimum elong	10971 Apr 03 05:46	17°30'57.45" 0°14'57"
min. Earth dist.	10965 Jul 20 01:17	6°33'33.00" 8.35004 AU	behind sun begin	10971 Apr 03 03:03	17°30'56.55"
direct	10965 Sep 26 08:26	3°33'06.59"	behind sun end	10971 Apr 03 08:29	17°30'58.35"
evening set	10966 Jan 09 13:40	11°33'02.11"	max. Earth dist.	10971 Apr 03 01:08	17°30'56.20" 10.53804 AU
conjunction	10966 Jan 27 05:57	13°33'14.46" 1°35'19"	morning rise	10971 Apr 20 08:28	20°30'04.31"
minimum elong	10966 Jan 27 05:59	13°33'14.47" 1°35'48"	retrograde	10971 Jul 30 09:43	27°30'32.51"
max. Earth dist.	10966 Jan 26 19:44	13°33'11.34" 10.35672 AU	opposition	10971 Oct 06 18:38	24°30'11.53" -0°33'16"
morning rise	10966 Feb 10 05:31	15°33'00.00"	min. Earth dist.	10971 Oct 06 21:25	24°30'11.21" 8.56118 AU
retrograde	10966 Feb 13 19:23	15°33'26.34"	direct	10971 Dec 15 15:47	20°30'47.30"
opposition	10966 Aug 02 03:48	19°33'45.40" 1°48'51"	evening set	10972 Mar 28 22:39	28°30'26.10"
min. Earth dist.	10966 Aug 02 11:52	19°33'44.03" 8.36780 AU	conjunction	10972 Apr 10 16:41	0°30'00.00"
direct	10966 Oct 10 01:04	16°33'18.07"	minimum elong	10972 Apr 15 01:39	0°30'32.29" 0°39'17"
evening set	10967 Jan 23 09:20	24°33'12.26"	max. Earth dist.	10972 Apr 14 23:01	0°30'31.40" 10.58425 AU
conjunction	10967 Feb 10 00:05	26°33'24.23" 1°18'54"	morning rise	10972 May 02 02:01	2°30'38.03"
minimum elong	10967 Feb 10 00:08	26°33'24.24" 1°19'17"	retrograde	10972 Aug 11 05:22	10°30'04.27"
max. Earth dist.	10967 Feb 09 13:40	26°33'21.06" 10.37949 AU	opposition	10972 Oct 18 22:19	6°30'43.50" -1°02'01"
morning rise	10967 Feb 27 11:43	28°33'35.26"	min. Earth dist.	10972 Oct 18 23:46	6°30'43.33" 8.60701 AU
retrograde	10967 Jun 09 03:40	6°33'15.05"	direct	10972 Dec 27 21:10	3°30'20.19"
opposition	10967 Aug 15 13:39	2°33'52.05" 1°25'50"	evening set	10973 Apr 10 17:22	10°30'55.01"
min. Earth dist.	10967 Aug 15 22:03	2°33'50.25" 8.39472 AU	conjunction	10973 Apr 27 17:36	13°30'00.03" -1°01'09"
direct	10967 Sep 27 11:06	30°33'00.00"	minimum elong	10973 Apr 27 17:34	13°30'00.02" 1°01'32"
evening set	10967 Oct 23 16:52	29°33'24.47"	max. Earth dist.	10973 Apr 27 16:30	12°30'59.42" 10.62877 AU
conjunction	10968 Feb 06 01:23	7°33'17.13"	morning rise	10973 May 14 15:53	15°30'04.29"
conjunction	10968 Feb 23 14:17	9°33'28.19" 0°58'28"	retrograde	10973 May 14 01:03	15°30'00.00"
minimum elong	10968 Feb 23 14:19	9°33'28.20" 0°58'45"	opposition	10973 Aug 23 23:34	22°30'29.26"
max. Earth dist.	10968 Feb 23 03:51	9°33'25.03" 10.41086 AU	min. Earth dist.	10973 Nov 01 00:11	19°30'09.01" -1°27'35"
morning rise	10968 Mar 11 24:00	11°33'38.29"	direct	10973 Nov 01 00:09	19°30'09.01" 8.65022 AU
retrograde	10968 Jun 21 08:24	19°33'14.59"	evening set	10974 Jan 09 23:57	15°30'46.22"
opposition	10968 Aug 27 22:45	15°33'52.33" 0°58'33"	conjunction	10974 Apr 23 08:13	23°30'17.12"
min. Earth dist.	10968 Aug 28 06:35	15°33'51.01" 8.42952 AU	minimum elong	10974 May 10 06:01	25°30'21.03" -1°20'16"
direct	10968 Nov 05 07:46	12°33'25.45"	max. Earth dist.	10974 May 10 05:58	25°30'21.02" 1°20'45"
evening set	10969 Feb 18 13:12	20°33'15.28"	morning rise	10974 May 10 06:51	25°30'21.18" 10.66959 AU
conjunction	10969 Mar 07 24:00	22°33'25.33" 0°35'13"	retrograde	10974 May 27 02:31	27°30'24.29"
minimum elong	10969 Mar 08 00:01	22°33'25.33" 0°35'21"	opposition	10974 Jun 18 15:18	0°30'00.00"
max. Earth dist.	10969 Mar 07 14:38	22°33'22.37" 10.44918 AU	min. Earth dist.	10974 Sep 05 16:26	4°30'48.31"
morning rise	10969 Mar 25 07:37	24°33'34.40"	direct	10974 Nov 14 00:30	1°30'28.08" -1°48'53"
retrograde	10969 May 15 12:03	0°30'00.00"	evening set	10974 Nov 13 22:08	1°30'28.35" 8.68877 AU
conjunction	10969 Jul 04 09:44	2°30'08.09"	direct	10974 Dec 04 01:10	30°30'06.20"
conjunction	10969 Aug 25 04:45	30°30'00.00"	evening set	10975 Jan 22 23:29	28°30'06.20"
			conjunction	10975 Mar 12 06:21	0°30'00.00"
			evening set	10975 May 05 19:29	5°30'33.27"
			conjunction	10975 May 22 15:25	7°30'36.19" -1°35'36"

minimum elong	10975 May 22 15:23	7° Π 36'18	1°36'08	minimum elong	10981 Aug 02 08:49	20° Ω 20'24	1°27'59
max. Earth dist.	10975 May 22 19:11	7° Π 37'28	10.70477 AU	max. Earth dist.	10981 Aug 02 18:52	20° Ω 23'27	10.71850 AU
morning rise	10975 Jun 08 10:34	9° Π 38'58		morning rise	10981 Aug 19 10:46	22° Ω 24'20	
retrograde	10975 Sep 18 08:18	17° Π 02'36		retrograde	10981 Dec 01 15:19	29° Ω 55'26	
opposition	10975 Nov 26 23:08	13° Π 42'07	-2°05'03	opposition	10982 Feb 09 17:52	26° Ω 32'03	-1°37'27
min. Earth dist.	10975 Nov 26 18:30	13° Π 43'00	8.72071 AU	min. Earth dist.	10982 Feb 09 09:25	26° Ω 33'40	8.70484 AU
direct	10976 Feb 04 20:31	10° Π 21'02		direct	10982 Apr 19 08:54	23° Ω 11'51	
evening set	10976 May 17 04:07	17° Π 44'49		evening set	10982 Jul 24 16:41	0° Π	
					10982 Jul 28 19:03	0° Π 29'10	
conjunction	10976 Jun 02 22:47	19° Π 46'57	-1°46'31	conjunction	10982 Aug 14 20:56	2° Π 33'18	-1°10'08
minimum elong	10976 Jun 02 22:45	19° Π 46'56	1°47'06	minimum elong	10982 Aug 14 20:58	2° Π 33'19	1°10'29
max. Earth dist.	10976 Jun 03 04:49	19° Π 48'47	10.73240 AU	max. Earth dist.	10982 Aug 15 06:12	2° Π 36'08	10.68812 AU
morning rise	10976 Jun 19 17:11	21° Π 49'01		morning rise	10982 Sep 01 02:07	4° Π 38'23	
retrograde	10976 Sep 30 01:22	29° Π 12'43		retrograde	10982 Dec 14 13:40	12° Π 11'50	
opposition	10976 Dec 08 20:07	25° Π 52'02	-2°15'31	opposition	10983 Feb 22 12:28	8° Π 47'46	-1°13'53
min. Earth dist.	10976 Dec 08 14:10	25° Π 53'10	8.74408 AU	min. Earth dist.	10983 Feb 22 04:56	8° Π 49'13	8.67075 AU
direct	10977 Feb 16 13:55	22° Π 31'30		direct	10983 May 01 21:08	5° Π 27'07	
evening set	10977 May 29 10:45	29° Π 52'30		evening set	10983 Aug 10 07:44	12° Π 45'59	
	10977 May 30 11:52	0° Ξ					
conjunction	10977 Jun 15 04:43	1° Ξ 54'10	-1°52'37	conjunction	10983 Aug 27 12:37	14° Π 51'18	-0°49'26
minimum elong	10977 Jun 15 04:42	1° Ξ 54'10	1°53'14	minimum elong	10983 Aug 27 12:39	14° Π 51'18	0°49'39
max. Earth dist.	10977 Jun 15 11:39	1° Ξ 56'17	10.75060 AU	max. Earth dist.	10983 Aug 27 21:00	14° Π 53'51	10.65127 AU
morning rise	10977 Jul 01 23:15	3° Ξ 56'01		morning rise	10983 Sep 13 21:03	16° Π 57'38	
retrograde	10977 Oct 12 16:33	11° Ξ 20'17		retrograde	10983 Dec 27 12:03	24° Π 33'38	
opposition	10977 Dec 21 16:06	7° Ξ 59'16	-2°19'55	opposition	10984 Mar 06 07:42	21° Π 08'55	-0°46'44
min. Earth dist.	10977 Dec 21 09:50	8° Ξ 00'27	8.75709 AU	min. Earth dist.	10984 Mar 06 01:06	21° Π 10'11	8.63094 AU
direct	10978 Mar 01 04:36	4° Ξ 39'10		direct	10984 May 13 11:41	17° Π 47'40	
evening set	10978 Jun 10 16:00	11° Ξ 58'01		evening set	10984 Aug 22 00:24	25° Π 08'55	
conjunction	10978 Jun 27 10:03	13° Ξ 59'33	-1°53'42	conjunction	10984 Sep 08 08:23	27° Π 15'30	-0°26'17
minimum elong	10978 Jun 27 10:04	13° Ξ 59'33	1°54'19	minimum elong	10984 Sep 08 08:24	27° Π 15'30	0°26'21
max. Earth dist.	10978 Jun 27 17:16	14° Ξ 01'45	10.75802 AU	max. Earth dist.	10984 Sep 08 16:19	27° Π 17'55	10.60937 AU
morning rise	10978 Jul 14 05:32	16° Ξ 01'29		morning rise	10984 Sep 25 19:46	29° Π 23'06	
retrograde	10978 Oct 25 07:24	23° Ξ 26'56			10984 Sep 30 23:47	0° Ω	
opposition	10979 Jan 03 11:12	20° Ξ 05'29	-2°18'06	retrograde	10985 Jan 08 13:33	7° Ω 01'49	
min. Earth dist.	10979 Jan 03 04:24	20° Ξ 06'46	8.75898 AU	opposition	10985 Mar 19 03:55	3° Ω 36'29	-0°17'08
direct	10979 Mar 13 19:28	16° Ξ 45'37		min. Earth dist.	10985 Mar 18 21:49	3° Ω 37'41	8.58703 AU
evening set	10979 Jun 22 20:58	24° Ξ 03'02		direct	10985 May 26 04:20	0° Ω 14'36	
				evening set	10985 Sep 03 21:46	7° Ω 38'57	
conjunction	10979 Jul 09 16:06	26° Ξ 04'49	-1°49'45	conjunction	10985 Sep 21 08:41	9° Ω 46'51	-0°01'43
minimum elong	10979 Jul 09 16:07	26° Ξ 04'49	1°50'20	minimum elong	10985 Sep 21 08:41	9° Ω 46'51	0°01'39
max. Earth dist.	10979 Jul 10 00:28	26° Ξ 07'21	10.75459 AU	behind sun begin	10985 Sep 21 01:29	9° Ω 44'40	
morning rise	10979 Jul 26 13:11	28° Ξ 07'08		behind sun end	10985 Sep 21 15:53	9° Ω 49'02	
	10979 Aug 11 19:39	0° Ω		max. Earth dist.	10985 Sep 21 15:49	9° Ω 49'01	10.56422 AU
retrograde	10979 Nov 07 01:09	5° Ω 34'10		morning rise	10985 Oct 08 22:42	11° Ω 55'43	
opposition	10980 Jan 16 05:32	2° Ω 12'09	-2°10'11	asc. node	10985 Oct 16 23:16	12° Ω 52'56	
min. Earth dist.	10980 Jan 15 21:45	2° Ω 13'37	8.75025 AU	retrograde	10986 Jan 21 19:14	19° Ω 37'08	
	10980 Feb 16 23:13	30° $\mathbb{R}\Xi$		opposition	10986 Apr 01 01:37	16° Ω 11'19	0°13'36
direct	10980 Mar 25 08:56	28° Ξ 52'21		min. Earth dist.	10986 Mar 31 20:24	16° Ω 12'21	8.54102 AU
	10980 Apr 30 21:49	0° Ω		direct	10986 Jun 07 21:23	12° Ω 48'42	
evening set	10980 Jul 04 02:31	6° Ω 09'00		evening set	10986 Sep 17 00:12	20° Ω 16'49	
conjunction	10980 Jul 20 23:29	8° Ω 11'19	-1°40'54	conjunction	10986 Oct 04 13:37	22° Ω 25'59	0°23'15
minimum elong	10980 Jul 20 23:31	8° Ω 11'20	1°41'26	minimum elong	10986 Oct 04 13:36	22° Ω 25'59	0°23'27
max. Earth dist.	10980 Jul 21 09:11	8° Ω 14'16	10.74110 AU	max. Earth dist.	10986 Oct 04 18:43	22° Ω 27'34	10.51788 AU
morning rise	10980 Aug 06 22:45	10° Ω 14'21		morning rise	10986 Oct 22 05:53	24° Ω 36'04	
	10980 Sep 20 22:59	15° Ω			10986 Dec 12 13:46	0° \mathbb{M}	
retrograde	10980 Nov 18 19:31	17° Ω 43'16		retrograde	10987 Feb 04 02:38	2° \mathbb{M} 20'03	
	10981 Jan 19 07:30	15° $\mathbb{R}\Omega$			10987 Mar 30 20:51	30° $\mathbb{R}\Omega$	
opposition	10981 Jan 27 23:39	14° Ω 20'35	-1°56'28	opposition	10987 Apr 14 01:03	28° Ω 53'54	0°43'59
min. Earth dist.	10981 Jan 27 15:01	14° Ω 22'13	8.73181 AU	min. Earth dist.	10987 Apr 13 21:38	28° Ω 54'35	8.49498 AU
direct	10981 Apr 06 20:37	11° Ω 00'41		direct	10987 Jun 20 17:31	25° Ω 30'27	
	10981 Jun 16 23:03	15° Ω			10987 Sep 03 19:06	0° \mathbb{M}	
evening set	10981 Jul 16 09:33	18° Ω 17'16		evening set	10987 Sep 30 08:01	3° \mathbb{M} 02'58	
conjunction	10981 Aug 02 08:47	20° Ω 20'23	-1°27'32				

conjunction	10987 Oct 17 23:25	5° \mathbb{M} 13'17	0°47'13	max. Earth dist.	10994 Jan 06 22:41	24° \mathcal{Z} 09'04	10.33792 AU
minimum elong	10987 Oct 17 23:23	5° \mathbb{M} 13'16	0°47'32	morning rise	10994 Jan 24 23:49	26° \mathcal{Z} 24'42	
max. Earth dist.	10987 Oct 18 01:40	5° \mathbb{M} 13'59	10.47249 AU		10994 Feb 25 00:24	0° \approx	
morning rise	10987 Nov 04 17:21	7° \mathbb{M} 24'23		retrograde	10994 May 07 17:51	4° \approx 11'47	
	10988 Feb 03 04:01	15° \mathbb{M}		opposition	10994 Jul 13 23:48	0° \approx 47'44	2°11'52
retrograde	10988 Feb 17 11:04	15° \mathbb{M} 10'42		min. Earth dist.	10994 Jul 14 07:20	0° \approx 46'13	8.34402 AU
	10988 Mar 02 18:13	15° \mathbb{R} \mathbb{M}			10994 Jul 24 00:21	30° \mathbb{R} \mathcal{Z}	
opposition	10988 Apr 26 02:19	11° \mathbb{M} 44'23	1°12'31	direct	10994 Sep 20 10:21	27° \mathcal{Z} 20'35	
min. Earth dist.	10988 Apr 26 01:12	11° \mathbb{M} 44'36	8.45117 AU		10994 Nov 16 03:15	0° \approx	
direct	10988 Jul 02 17:57	8° \mathbb{M} 20'07		evening set	10995 Jan 03 14:40	5° \approx 16'27	
	10988 Oct 04 22:12	15° \mathbb{M}					
evening set	10988 Oct 12 20:48	15° \mathbb{M} 57'19		conjunction	10995 Jan 21 07:20	7° \approx 29'18	1°41'02
				minimum elong	10995 Jan 21 07:22	7° \approx 29'19	1°41'34
conjunction	10988 Oct 30 13:43	18° \mathbb{M} 08'38	1°09'02	max. Earth dist.	10995 Jan 20 21:02	7° \approx 26'04	10.35020 AU
minimum elong	10988 Oct 30 13:41	18° \mathbb{M} 08'38	1°09'27	morning rise	10995 Feb 07 21:43	9° \approx 41'29	
max. Earth dist.	10988 Oct 30 13:22	18° \mathbb{M} 08'32	10.43042 AU		10995 Mar 28 22:15	15° \approx	
morning rise	10988 Nov 17 08:39	20° \mathbb{M} 20'35		retrograde	10995 May 21 03:45	17° \approx 25'59	
retrograde	10989 Mar 01 22:02	28° \mathbb{M} 08'50			10995 Jul 15 06:29	15° \mathbb{R} \approx	
opposition	10989 May 09 05:42	24° \mathbb{M} 42'31	1°37'39	opposition	10995 Jul 27 10:48	14° \approx 02'34	1°57'19
min. Earth dist.	10989 May 09 06:25	24° \mathbb{M} 42'22	8.41195 AU	min. Earth dist.	10995 Jul 27 18:42	14° \approx 00'59	8.36096 AU
direct	10989 Jul 15 21:20	21° \mathbb{M} 17'29		direct	10995 Oct 04 04:39	10° \approx 35'27	
evening set	10989 Oct 26 14:01	28° \mathbb{M} 59'22			10995 Dec 18 03:11	15° \approx	
	10989 Nov 03 18:44	0° \mathcal{Z}		evening set	10996 Jan 17 12:19	18° \approx 30'44	
conjunction	10989 Nov 13 08:04	1° \mathcal{Z} 11'32	1°27'29	conjunction	10996 Feb 04 03:45	20° \approx 43'02	1°26'44
minimum elong	10989 Nov 13 08:01	1° \mathcal{Z} 11'31	1°27'59	minimum elong	10996 Feb 04 03:47	20° \approx 43'02	1°27'11
max. Earth dist.	10989 Nov 13 05:56	1° \mathcal{Z} 10'52	10.39395 AU	max. Earth dist.	10996 Feb 03 17:24	20° \approx 39'46	10.37187 AU
morning rise	10989 Dec 01 03:18	3° \mathcal{Z} 24'06		morning rise	10996 Feb 21 16:22	22° \approx 54'29	
retrograde	10990 Mar 15 10:46	11° \mathcal{Z} 13'44			10996 May 07 18:01	0° \mathcal{H}	
opposition	10990 May 22 11:01	7° \mathcal{Z} 47'35	1°57'58	retrograde	10996 Jun 02 13:05	0° \mathcal{H} 35'57	
min. Earth dist.	10990 May 22 12:59	7° \mathcal{Z} 47'11	8.37935 AU		10996 Jun 28 14:16	30° \mathbb{R} \approx	
direct	10990 Jul 29 04:19	4° \mathcal{Z} 21'52		opposition	10996 Aug 08 21:26	27° \approx 13'08	1°36'39
evening set	10990 Nov 09 11:17	12° \mathcal{Z} 08'13		min. Earth dist.	10996 Aug 09 05:02	27° \approx 11'37	8.38625 AU
				direct	10996 Oct 16 21:27	23° \approx 46'13	
conjunction	10990 Nov 27 05:55	14° \mathcal{Z} 21'00	1°41'30		10997 Jan 16 10:01	0° \mathcal{H}	
minimum elong	10990 Nov 27 05:53	14° \mathcal{Z} 20'59	1°42'04	evening set	10997 Jan 30 06:40	1° \mathcal{H} 39'53	
max. Earth dist.	10990 Nov 27 02:11	14° \mathcal{Z} 19'50	10.36506 AU				
morning rise	10990 Dec 15 00:50	16° \mathcal{Z} 33'56		conjunction	10997 Feb 16 20:34	3° \mathcal{H} 51'26	1°07'58
retrograde	10991 Mar 29 00:14	24° \mathcal{Z} 24'13		minimum elong	10997 Feb 16 20:37	3° \mathcal{H} 51'27	1°08'18
opposition	10991 Jun 04 18:05	20° \mathcal{Z} 58'25	2°12'13	max. Earth dist.	10997 Feb 16 10:45	3° \mathcal{H} 48'21	10.40079 AU
min. Earth dist.	10991 Jun 04 21:15	20° \mathcal{Z} 57'47	8.35517 AU	morning rise	10997 Mar 06 07:12	6° \mathcal{H} 02'02	
direct	10991 Aug 11 14:15	17° \mathcal{Z} 32'08		retrograde	10997 Jun 15 20:16	13° \mathcal{H} 40'19	
evening set	10991 Nov 23 11:20	25° \mathcal{Z} 22'24		opposition	10997 Aug 22 07:17	10° \mathcal{H} 18'05	1°11'06
				min. Earth dist.	10997 Aug 22 14:52	10° \mathcal{H} 16'35	8.41753 AU
conjunction	10991 Dec 11 06:02	27° \mathcal{Z} 35'34	1°50'14	direct	10997 Oct 30 12:47	6° \mathcal{H} 51'32	
minimum elong	10991 Dec 11 06:01	27° \mathcal{Z} 35'33	1°50'51	evening set	10998 Feb 12 21:13	14° \mathcal{H} 42'55	
max. Earth dist.	10991 Dec 11 00:39	27° \mathcal{Z} 33'52	10.34542 AU				
morning rise	10991 Dec 29 00:09	29° \mathcal{Z} 48'38		conjunction	10998 Mar 02 09:11	16° \mathcal{H} 53'33	0°45'48
	10991 Dec 30 13:10	0° \mathcal{Z}		minimum elong	10998 Mar 02 09:13	16° \mathcal{H} 53'34	0°46'01
retrograde	10992 Apr 10 15:17	7° \mathcal{Z} 38'44		max. Earth dist.	10998 Mar 01 23:38	16° \mathcal{H} 50'33	10.43459 AU
opposition	10992 Jun 17 02:57	4° \mathcal{Z} 13'26	2°19'32	morning rise	10998 Mar 19 17:40	19° \mathcal{H} 03'12	
min. Earth dist.	10992 Jun 17 07:32	4° \mathcal{Z} 12'31	8.34080 AU	retrograde	10998 Jun 29 00:24	26° \mathcal{H} 38'29	
direct	10992 Aug 24 02:04	0° \mathcal{Z} 46'44		opposition	10998 Sep 04 16:27	23° \mathcal{H} 16'49	0°42'05
evening set	10992 Dec 06 12:41	8° \mathcal{Z} 39'58		min. Earth dist.	10998 Sep 05 00:00	23° \mathcal{H} 15'20	8.45298 AU
				direct	10998 Nov 13 03:41	19° \mathcal{H} 50'48	
conjunction	10992 Dec 24 07:01	10° \mathcal{Z} 53'17	1°53'09	evening set	10999 Feb 26 07:35	27° \mathcal{H} 39'20	
minimum elong	10992 Dec 24 07:01	10° \mathcal{Z} 53'17	1°53'46				
max. Earth dist.	10992 Dec 23 23:40	10° \mathcal{Z} 50'59	10.33622 AU	conjunction	10999 Mar 15 17:09	29° \mathcal{H} 48'53	0°21'29
morning rise	10993 Jan 11 00:07	13° \mathcal{Z} 06'17		minimum elong	10999 Mar 15 17:10	29° \mathcal{H} 48'53	0°21'33
retrograde	10993 Apr 24 05:50	20° \mathcal{Z} 55'20		max. Earth dist.	10999 Mar 15 08:08	29° \mathcal{H} 46'04	10.47198 AU
opposition	10993 Jun 30 13:05	17° \mathcal{Z} 30'37	2°19'26		10999 Mar 17 04:44	0° \mathcal{Y}	
min. Earth dist.	10993 Jun 30 19:25	17° \mathcal{Z} 29'21	8.33706 AU	morning rise	10999 Apr 01 23:24	1° \mathcal{Y} 57'29	
direct	10993 Sep 06 16:35	14° \mathcal{Z} 03'37		retrograde	10999 Jul 12 02:41	9° \mathcal{Y} 30'04	
evening set	10993 Dec 20 14:19	21° \mathcal{Z} 58'47		opposition	10999 Sep 18 00:37	6° \mathcal{Y} 08'51	0°11'12
				min. Earth dist.	10999 Sep 18 07:35	6° \mathcal{Y} 07'30	8.49177 AU
conjunction	10994 Jan 07 07:56	24° \mathcal{Z} 11'59	1°50'01	direct	10999 Nov 26 16:16	2° \mathcal{Y} 43'27	
minimum elong	10994 Jan 07 07:57	24° \mathcal{Z} 11'59	1°50'36	desc. node	11000 Jan 30 23:12	6° \mathcal{Y} 05'23	

evening set	11000 Mar 11 13:40	10° Υ 28'37		min. Earth dist.	11005 Dec 04 12:03	20° Π 56'24	8.70862 AU
				direct	11006 Feb 12 12:13	17° Π 34'04	
conjunction	11000 Mar 28 20:36	12° Υ 36'59 -0°03'49		evening set	11006 May 25 13:44	24° Π 57'19	
minimum elong	11000 Mar 28 20:36	12° Υ 36'59 0°03'53					
behind sun begin	11000 Mar 28 13:33	12° Υ 34'49		conjunction	11006 Jun 11 08:00	26° Π 59'27 -1°50'41	
behind sun end	11000 Mar 29 03:39	12° Υ 39'09		minimum elong	11006 Jun 11 07:59	26° Π 59'27 1°51'18	
max. Earth dist.	11000 Mar 28 12:37	12° Υ 34'31 10.51214 AU		max. Earth dist.	11006 Jun 11 14:04	27° Π 01'18 10.71734 AU	
morning rise	11000 Apr 15 00:36	14° Υ 44'27		morning rise	11006 Jun 28 02:37	29° Π 01'41	
retrograde	11000 Jul 25 02:05	22° Υ 14'36			11006 Jul 06 08:08	0° \mathfrak{S}	
opposition	11000 Oct 01 07:21	18° Υ 53'41 -0°19'56		retrograde	11006 Oct 08 14:34	6° \mathfrak{S} 26'39	
min. Earth dist.	11000 Oct 01 12:47	18° Υ 52'38 8.53280 AU		opposition	11006 Dec 17 13:28	3° \mathfrak{S} 05'04 -2°18'58	
direct	11000 Dec 10 02:49	15° Υ 28'59		min. Earth dist.	11006 Dec 17 06:48	3° \mathfrak{S} 06'19 8.72667 AU	
evening set	11001 Mar 24 15:16	23° Υ 10'24			11007 Feb 07 09:21	30° \mathfrak{R} Π	
				direct	11007 Feb 25 05:22	29° Π 44'04	
conjunction	11001 Apr 10 19:34	25° Υ 17'30 -0°28'35			11007 Mar 14 20:58	0° \mathfrak{S}	
minimum elong	11001 Apr 10 19:33	25° Υ 17'30 0°28'49		evening set	11007 Jun 06 19:50	7° \mathfrak{S} 04'45	
max. Earth dist.	11001 Apr 10 13:47	25° Υ 15'43 10.55358 AU					
morning rise	11001 Apr 27 21:12	27° Υ 23'50		conjunction	11007 Jun 23 14:03	9° \mathfrak{S} 06'36 -1°53'55	
	11001 May 20 06:11	0° \mathfrak{S}		minimum elong	11007 Jun 23 14:03	9° \mathfrak{S} 06'36 1°54'32	
retrograde	11001 Aug 06 22:58	4° \mathfrak{S} 51'56		max. Earth dist.	11007 Jun 23 22:42	9° \mathfrak{S} 09'15 10.73114 AU	
opposition	11001 Oct 14 12:32	1° \mathfrak{S} 31'10 -0°49'48		morning rise	11007 Jul 10 09:05	11° \mathfrak{S} 08'44	
min. Earth dist.	11001 Oct 14 15:36	1° \mathfrak{S} 30'35 8.57424 AU		retrograde	11007 Oct 21 07:08	18° \mathfrak{S} 34'31	
	11001 Nov 04 00:15	30° \mathfrak{R} Υ		opposition	11007 Dec 30 09:18	15° \mathfrak{S} 12'33 -2°19'46	
direct	11001 Dec 23 11:23	28° Υ 07'10		min. Earth dist.	11007 Dec 30 00:57	15° \mathfrak{S} 14'08 8.73623 AU	
	11002 Feb 09 11:44	0° \mathfrak{S}		direct	11008 Mar 08 20:37	11° \mathfrak{S} 51'58	
evening set	11002 Apr 06 12:34	5° \mathfrak{S} 44'39		evening set	11008 Jun 18 01:19	19° \mathfrak{S} 10'41	
conjunction	11002 Apr 23 14:13	7° \mathfrak{S} 50'29 -0°51'50		conjunction	11008 Jul 04 20:06	21° \mathfrak{S} 12'34 -1°52'05	
minimum elong	11002 Apr 23 14:11	7° \mathfrak{S} 50'29 0°52'11		minimum elong	11008 Jul 04 20:07	21° \mathfrak{S} 12'35 1°52'41	
max. Earth dist.	11002 Apr 23 11:27	7° \mathfrak{S} 49'38 10.59434 AU		max. Earth dist.	11008 Jul 05 05:54	21° \mathfrak{S} 15'34 10.73630 AU	
morning rise	11002 May 10 13:28	9° \mathfrak{S} 55'40		morning rise	11008 Jul 21 16:24	23° \mathfrak{S} 14'55	
	11002 Jun 27 08:58	15° \mathfrak{S}			11008 Oct 03 23:35	0° \mathfrak{Q}	
retrograde	11002 Aug 19 19:58	17° \mathfrak{S} 22'11		retrograde	11008 Nov 02 00:58	0° \mathfrak{Q} 41'50	
	11002 Oct 14 17:46	15° \mathfrak{R} \mathfrak{S}			11008 Dec 01 09:18	30° \mathfrak{R} \mathfrak{S}	
opposition	11002 Oct 27 16:05	14° \mathfrak{S} 01'27 -1°17'00		opposition	11009 Jan 11 04:12	27° \mathfrak{S} 19'29 -2°14'22	
min. Earth dist.	11002 Oct 27 16:50	14° \mathfrak{S} 01'18 8.61423 AU		min. Earth dist.	11009 Jan 10 19:23	27° \mathfrak{S} 21'10 8.73689 AU	
direct	11003 Jan 05 16:11	10° \mathfrak{S} 38'08		direct	11009 Mar 21 09:18	23° \mathfrak{S} 59'09	
	11003 Mar 22 03:17	15° \mathfrak{S}			11009 Jun 19 09:00	0° \mathfrak{Q}	
evening set	11003 Apr 19 05:49	18° \mathfrak{S} 11'39		evening set	11009 Jun 30 06:51	1° \mathfrak{Q} 16'37	
conjunction	11003 May 06 04:56	20° \mathfrak{S} 16'18 -1°12'27		conjunction	11009 Jul 17 02:54	3° \mathfrak{Q} 18'49 -1°45'15	
minimum elong	11003 May 06 04:54	20° \mathfrak{S} 16'17 1°12'54		minimum elong	11009 Jul 17 02:56	3° \mathfrak{Q} 18'50 1°45'48	
max. Earth dist.	11003 May 06 04:57	20° \mathfrak{S} 16'18 10.63269 AU		max. Earth dist.	11009 Jul 17 13:02	3° \mathfrak{Q} 21'55 10.73269 AU	
morning rise	11003 May 23 02:10	22° \mathfrak{S} 20'26		morning rise	11009 Aug 03 01:16	5° \mathfrak{Q} 21'41	
retrograde	11003 Sep 01 14:33	29° \mathfrak{S} 45'48		retrograde	11009 Nov 14 17:41	12° \mathfrak{Q} 50'07	
opposition	11003 Nov 09 17:56	26° \mathfrak{S} 24'59 -1°40'22		opposition	11010 Jan 23 22:47	9° \mathfrak{Q} 27'20 -2°02'59	
min. Earth dist.	11003 Nov 09 16:54	26° \mathfrak{S} 25'11 8.65107 AU		min. Earth dist.	11010 Jan 23 13:47	9° \mathfrak{Q} 29'02 8.72873 AU	
direct	11004 Jan 18 16:37	23° \mathfrak{S} 02'19		direct	11010 Apr 02 21:39	6° \mathfrak{Q} 07'08	
	11004 Apr 26 07:59	0° \mathfrak{II}		evening set	11010 Jul 12 13:11	13° \mathfrak{Q} 24'01	
evening set	11004 Apr 30 19:20	0° \mathfrak{II} 32'04			11010 Jul 25 19:10	15° \mathfrak{Q}	
conjunction	11004 May 17 16:12	2° \mathfrak{II} 35'38 -1°29'33		conjunction	11010 Jul 29 11:18	15° \mathfrak{Q} 26'50 -1°33'42	
minimum elong	11004 May 17 16:10	2° \mathfrak{II} 35'37 1°30'05		minimum elong	11010 Jul 29 11:20	15° \mathfrak{Q} 26'51 1°34'11	
max. Earth dist.	11004 May 17 18:01	2° \mathfrak{II} 36'12 10.66695 AU		max. Earth dist.	11010 Jul 29 21:57	15° \mathfrak{Q} 30'05 10.72053 AU	
morning rise	11004 Jun 03 12:00	4° \mathfrak{II} 38'54		morning rise	11010 Aug 15 12:15	17° \mathfrak{Q} 30'28	
retrograde	11004 Sep 13 06:37	12° \mathfrak{II} 03'39		retrograde	11010 Nov 27 12:18	25° \mathfrak{Q} 00'46	
opposition	11004 Nov 21 18:02	8° \mathfrak{II} 42'39 -1°58'54		opposition	11011 Feb 05 17:06	21° \mathfrak{Q} 37'29 -1°46'04	
min. Earth dist.	11004 Nov 21 15:37	8° \mathfrak{II} 43'06 8.68303 AU		min. Earth dist.	11011 Feb 05 07:46	21° \mathfrak{Q} 39'16 8.71221 AU	
direct	11005 Jan 30 15:29	5° \mathfrak{II} 20'35		direct	11011 Apr 15 11:17	18° \mathfrak{Q} 17'18	
evening set	11005 May 13 05:49	12° \mathfrak{II} 46'53		evening set	11011 Jul 24 21:34	25° \mathfrak{Q} 34'21	
conjunction	11005 May 30 00:58	14° \mathfrak{II} 49'36 -1°42'28		conjunction	11011 Aug 10 22:22	27° \mathfrak{Q} 38'04 -1°17'54	
minimum elong	11005 May 30 00:56	14° \mathfrak{II} 49'35 1°43'03		minimum elong	11011 Aug 10 22:24	27° \mathfrak{Q} 38'04 1°18'17	
max. Earth dist.	11005 May 30 04:31	14° \mathfrak{II} 50'41 10.69560 AU		max. Earth dist.	11011 Aug 11 09:59	27° \mathfrak{Q} 41'36 10.70039 AU	
morning rise	11005 Jun 15 19:52	16° \mathfrak{II} 52'13		morning rise	11011 Aug 28 02:09	29° \mathfrak{Q} 42'39	
retrograde	11005 Sep 25 22:37	24° \mathfrak{II} 16'49			11011 Aug 30 12:36	0° \mathfrak{N}	
opposition	11005 Dec 04 16:25	20° \mathfrak{II} 55'34 -2°11'56		retrograde	11011 Dec 10 10:12	7° \mathfrak{N} 15'03	

opposition	11012 Feb 18 11:19	3° <u>൬</u> 51'17	-1°24'16	morning rise	11017 Nov 12 19:51	15° <u>൬</u> 01'34	
min. Earth dist.	11012 Feb 18 01:31	3° <u>൬</u> 53'10	8.68808 AU		11017 Nov 12 14:41	15° <u>൬</u>	
direct	11012 Apr 26 23:23	0° <u>൬</u> 30'58		retrograde	11018 Feb 25 11:50	22° <u>൬</u> 47'48	
evening set	11012 Aug 05 08:52	7° <u>൬</u> 49'01		opposition	11018 May 04 22:16	19° <u>൬</u> 22'11	1°27'14
				min. Earth dist.	11018 May 04 21:31	19° <u>൬</u> 22'20	8.45637 AU
conjunction	11012 Aug 22 12:33	9° <u>൬</u> 53'45	-0°58'29	direct	11018 Jul 11 13:26	15° <u>൬</u> 58'13	
minimum elong	11012 Aug 22 12:35	9° <u>൬</u> 53'46	0°58'45	evening set	11018 Oct 22 00:01	23° <u>൬</u> 36'44	
max. Earth dist.	11012 Aug 23 00:08	9° <u>൬</u> 57'17	10.67316 AU				
morning rise	11012 Sep 08 19:23	11° <u>൬</u> 59'28		conjunction	11018 Nov 08 17:29	25° <u>൬</u> 48'11	1°19'57
retrograde	11012 Dec 22 09:21	19° <u>൬</u> 34'08		minimum elong	11018 Nov 08 17:26	25° <u>൬</u> 48'10	1°20'25
opposition	11013 Mar 02 06:13	16° <u>൬</u> 09'56	-0°58'30	max. Earth dist.	11018 Nov 08 16:12	25° <u>൬</u> 47'47	10.43614 AU
min. Earth dist.	11013 Mar 01 20:53	16° <u>൬</u> 11'45	8.65751 AU	morning rise	11018 Nov 26 12:21	28° <u>൬</u> 00'07	
direct	11013 May 09 11:41	12° <u>൬</u> 49'21			11018 Dec 13 09:33	0° <u>ੜ</u>	
evening set	11013 Aug 17 23:41	20° <u>൬</u> 09'10		retrograde	11019 Mar 10 23:34	5° <u>ੜ</u> 47'58	
				opposition	11019 May 18 01:53	2° <u>ੜ</u> 22'21	1°49'42
conjunction	11013 Sep 04 06:15	22° <u>൬</u> 15'03	-0°36'15	min. Earth dist.	11019 May 18 03:40	2° <u>ੜ</u> 21'59	8.41849 AU
minimum elong	11013 Sep 04 06:16	22° <u>൬</u> 15'04	0°36'23		11019 Jun 19 23:54	30° <u>੬</u> <u>൬</u>	
max. Earth dist.	11013 Sep 04 16:34	22° <u>൬</u> 18'13	10.64015 AU	direct	11019 Jul 24 17:28	28° <u>൬</u> 57'31	
morning rise	11013 Sep 21 16:13	24° <u>൬</u> 21'58			11019 Aug 28 05:13	0° <u>ੜ</u>	
	11013 Nov 15 20:01	0° <u>ੲ</u>		evening set	11019 Nov 04 18:48	6° <u>ੜ</u> 40'41	
retrograde	11014 Jan 04 10:20	1° <u>ੲ</u> 59'03					
	11014 Feb 24 03:07	30° <u>੬</u> <u>൬</u>		conjunction	11019 Nov 22 12:53	8° <u>ੜ</u> 52'50	1°35'57
opposition	11014 Mar 15 02:02	28° <u>൬</u> 34'27	-0°29'48	minimum elong	11019 Nov 22 12:51	8° <u>ੜ</u> 52'49	1°36'31
min. Earth dist.	11014 Mar 14 18:08	28° <u>൬</u> 36'00	8.62193 AU	max. Earth dist.	11019 Nov 22 08:26	8° <u>ੜ</u> 51'26	10.40093 AU
direct	11014 May 22 02:46	25° <u>൬</u> 13'25		morning rise	11019 Dec 10 07:48	11° <u>ੜ</u> 05'16	
	11014 Aug 08 04:03	0° <u>ੲ</u>		retrograde	11020 Mar 23 10:48	18° <u>ੜ</u> 54'06	
evening set	11014 Aug 30 18:55	2° <u>ੲ</u> 35'46		opposition	11020 May 30 07:22	15° <u>ੜ</u> 28'37	2°06'41
				min. Earth dist.	11020 May 30 11:25	15° <u>ੜ</u> 27'48	8.38716 AU
conjunction	11014 Sep 17 04:20	4° <u>ੲ</u> 42'53	-0°12'11	direct	11020 Aug 06 02:20	12° <u>ੜ</u> 02'59	
minimum elong	11014 Sep 17 04:20	4° <u>ੲ</u> 42'53	0°12'11	evening set	11020 Nov 17 16:37	19° <u>ੜ</u> 50'19	
behind sun begin	11014 Sep 16 23:32	4° <u>ੲ</u> 41'26					
behind sun end	11014 Sep 17 09:08	4° <u>ੲ</u> 44'20		conjunction	11020 Dec 05 10:59	22° <u>ੜ</u> 02'59	1°47'04
max. Earth dist.	11014 Sep 17 12:32	4° <u>ੲ</u> 45'23	10.60275 AU	minimum elong	11020 Dec 05 10:58	22° <u>ੜ</u> 02'58	1°47'41
morning rise	11014 Oct 04 17:15	6° <u>ੲ</u> 51'01		max. Earth dist.	11020 Dec 05 04:09	22° <u>ੜ</u> 00'50	10.37339 AU
retrograde	11015 Jan 17 13:34	14° <u>ੲ</u> 30'29		morning rise	11020 Dec 23 05:28	24° <u>ੜ</u> 15'41	
asc. node	11015 Mar 21 05:17	11° <u>ੲ</u> 36'58			11021 Feb 15 14:22	0° <u>ੜ</u>	
opposition	11015 Mar 27 22:50	11° <u>ੲ</u> 05'32	0°00'33	retrograde	11021 Apr 05 23:12	2° <u>ੜ</u> 04'45	
min. Earth dist.	11015 Mar 27 16:54	11° <u>ੲ</u> 06'42	8.58275 AU		11021 May 26 09:46	30° <u>੬</u> <u>ੜ</u>	
direct	11015 Jun 03 19:15	7° <u>ੲ</u> 43'54		opposition	11021 Jun 12 14:27	28° <u>ੜ</u> 39'30	2°17'08
evening set	11015 Sep 12 18:50	15° <u>ੲ</u> 09'30		min. Earth dist.	11021 Jun 12 20:06	28° <u>ੜ</u> 38'22	8.36433 AU
				direct	11021 Aug 19 13:14	25° <u>ੜ</u> 13'08	
conjunction	11015 Sep 30 06:58	17° <u>ੲ</u> 17'49	0°12'45		11021 Nov 05 10:12	0° <u>ੜ</u>	
minimum elong	11015 Sep 30 06:57	17° <u>ੲ</u> 17'48	0°12'53	evening set	11021 Dec 01 16:19	3° <u>ੜ</u> 03'54	
behind sun begin	11015 Sep 30 02:34	17° <u>ੲ</u> 16'29					
behind sun end	11015 Sep 30 11:20	17° <u>ੲ</u> 19'08		conjunction	11021 Dec 19 10:41	5° <u>ੜ</u> 16'53	1°52'36
max. Earth dist.	11015 Sep 30 13:19	17° <u>ੲ</u> 19'45	10.56222 AU	minimum elong	11021 Dec 19 10:41	5° <u>ੜ</u> 16'52	1°53'13
morning rise	11015 Oct 17 22:17	19° <u>ੲ</u> 27'05		max. Earth dist.	11021 Dec 19 02:21	5° <u>ੜ</u> 14'15	10.35510 AU
retrograde	11016 Jan 30 18:08	27° <u>ੲ</u> 08'55		morning rise	11022 Jan 06 04:17	7° <u>ੜ</u> 29'39	
opposition	11016 Apr 08 20:57	23° <u>ੲ</u> 43'39	0°31'10	retrograde	11022 Apr 19 12:09	15° <u>ੜ</u> 18'06	
min. Earth dist.	11016 Apr 08 16:38	23° <u>ੲ</u> 44'30	8.54112 AU	opposition	11022 Jun 25 22:52	11° <u>ੜ</u> 53'09	2°20'22
direct	11016 Jun 15 15:09	20° <u>ੲ</u> 21'18		min. Earth dist.	11022 Jun 26 05:19	11° <u>ੜ</u> 51'52	8.35107 AU
evening set	11016 Sep 24 23:33	27° <u>ੲ</u> 50'45		direct	11022 Sep 02 02:26	8° <u>ੜ</u> 26'14	
				evening set	11022 Dec 15 16:48	16° <u>ੜ</u> 19'30	
conjunction	11016 Oct 12 14:00	0° <u>൬</u> 00'13	0°37'10				
minimum elong	11016 Oct 12 13:58	0° <u>൬</u> 00'12	0°37'26	conjunction	11023 Jan 02 10:47	18° <u>ੜ</u> 32'32	1°52'10
	11016 Oct 12 13:19	0° <u>൬</u>		minimum elong	11023 Jan 02 10:48	18° <u>ੜ</u> 32'32	1°52'47
max. Earth dist.	11016 Oct 12 18:24	0° <u>൬</u> 01'34	10.51963 AU	max. Earth dist.	11023 Jan 02 01:36	18° <u>ੜ</u> 29'38	10.34687 AU
morning rise	11016 Oct 30 07:03	2° <u>൬</u> 10'30		morning rise	11023 Jan 20 03:07	20° <u>ੜ</u> 45'09	
retrograde	11017 Feb 12 01:04	9° <u>൬</u> 54'39		retrograde	11023 May 03 00:19	28° <u>ੜ</u> 32'11	
opposition	11017 Apr 21 20:42	6° <u>൬</u> 29'08	1°00'34	opposition	11023 Jul 09 08:11	25° <u>ੜ</u> 07'39	2°16'10
min. Earth dist.	11017 Apr 21 17:59	6° <u>൬</u> 29'40	8.49823 AU	min. Earth dist.	11023 Jul 09 15:26	25° <u>ੜ</u> 06'12	8.34798 AU
direct	11017 Jun 28 13:39	3° <u>൬</u> 06'00		direct	11023 Sep 15 17:25	21° <u>ੜ</u> 40'21	
evening set	11017 Oct 08 09:23	10° <u>൬</u> 39'50		evening set	11023 Dec 29 16:38	29° <u>ੜ</u> 35'00	
					11024 Jan 02 01:31	0° <u>ਫ਼</u>	
conjunction	11017 Oct 26 01:38	12° <u>൬</u> 50'23	0°59'58				
minimum elong	11017 Oct 26 01:36	12° <u>൬</u> 50'22	1°00'21	conjunction	11024 Jan 16 09:51	1° <u>ਫ਼</u> 47'52	1°45'48
max. Earth dist.	11017 Oct 26 03:35	12° <u>൬</u> 50'59	10.47666 AU	minimum elong	11024 Jan 16 09:52	1° <u>ਫ਼</u> 47'52	1°46'22

max. Earth dist.	11024 Jan 15 23:43	1° \approx 44'41	10.34910 AU	minimum elong	11030 Apr 05 05:08	19° Υ 41'25	0°17'22
morning rise	11024 Feb 03 00:44	4° \approx 00'07		max. Earth dist.	11030 Apr 05 00:04	19° Υ 39'51	10.53679 AU
retrograde	11024 May 15 11:25	11° \approx 45'03		morning rise	11030 Apr 22 07:44	21° Υ 48'10	
opposition	11024 Jul 21 18:09	8° \approx 21'00	2°04'44	retrograde	11030 Aug 01 08:44	29° Υ 16'37	
min. Earth dist.	11024 Jul 22 02:19	8° \approx 19'22	8.35522 AU	opposition	11030 Oct 08 18:34	25° Υ 55'39	-0°36'09
direct	11024 Sep 28 09:00	4° \approx 53'29		min. Earth dist.	11030 Oct 08 22:10	25° Υ 54'57	8.55922 AU
evening set	11025 Jan 11 14:31	12° \approx 48'21		direct	11030 Dec 17 15:54	22° Υ 31'13	
					11031 Mar 30 13:06	0° \mathcal{B}	
conjunction	11025 Jan 29 06:36	15° \approx 00'50	1°33'51	evening set	11031 Mar 31 22:10	0° \mathcal{B} 10'00	
minimum elong	11025 Jan 29 06:39	15° \approx 00'51	1°34'20				
max. Earth dist.	11025 Jan 28 19:39	14° \approx 57'23	10.36161 AU	conjunction	11031 Apr 18 00:56	2° \mathcal{B} 16'18	-0°41'14
	11025 Jan 29 03:58	15° \approx		minimum elong	11031 Apr 18 00:55	2° \mathcal{B} 16'18	0°41'32
morning rise	11025 Feb 15 19:58	17° \approx 12'32		max. Earth dist.	11031 Apr 17 21:20	2° \mathcal{B} 15'11	10.58154 AU
retrograde	11025 May 28 20:48	24° \approx 54'50		morning rise	11031 May 05 01:17	4° \mathcal{B} 21'53	
opposition	11025 Aug 04 04:11	21° \approx 31'19	1°46'45	retrograde	11031 Aug 14 05:17	11° \mathcal{B} 48'33	
min. Earth dist.	11025 Aug 04 13:06	21° \approx 29'32	8.37230 AU	opposition	11031 Oct 21 22:23	8° \mathcal{B} 27'53	-1°04'39
direct	11025 Oct 12 01:14	18° \approx 03'48		min. Earth dist.	11031 Oct 22 00:18	8° \mathcal{B} 27'31	8.60366 AU
evening set	11026 Jan 25 09:48	25° \approx 57'48		direct	11031 Dec 30 21:22	5° \mathcal{B} 04'20	
				evening set	11032 Apr 12 16:51	12° \mathcal{B} 39'13	
conjunction	11026 Feb 12 00:23	28° \approx 09'40	1°17'01				
minimum elong	11026 Feb 12 00:26	28° \approx 09'41	1°17'24	conjunction	11032 Apr 29 16:57	14° \mathcal{B} 44'16	-1°03'08
max. Earth dist.	11026 Feb 11 12:51	28° \approx 06'02	10.38358 AU	minimum elong	11032 Apr 29 16:55	14° \mathcal{B} 44'16	1°03'32
	11026 Feb 26 17:10	0° \mathcal{H}		max. Earth dist.	11032 Apr 29 15:31	14° \mathcal{B} 43'50	10.62474 AU
morning rise	11026 Mar 01 12:03	0° \mathcal{H} 20'39			11032 May 01 19:54	15° \mathcal{B}	
retrograde	11026 Jun 11 02:52	7° \mathcal{H} 59'58		morning rise	11032 May 16 15:13	16° \mathcal{B} 48'46	
opposition	11026 Aug 17 13:44	4° \mathcal{H} 37'00	1°23'18	retrograde	11032 Aug 25 23:08	24° \mathcal{B} 14'05	
min. Earth dist.	11026 Aug 17 22:37	4° \mathcal{H} 35'15	8.39828 AU	opposition	11032 Nov 03 00:23	20° \mathcal{B} 53'35	-1°29'51
direct	11026 Oct 25 17:55	1° \mathcal{H} 09'44		min. Earth dist.	11032 Nov 03 00:01	20° \mathcal{B} 53'40	8.64561 AU
evening set	11027 Feb 08 01:30	9° \mathcal{H} 01'55		direct	11033 Jan 11 23:48	17° \mathcal{B} 30'56	
				evening set	11033 Apr 25 07:46	25° \mathcal{B} 02'01	
conjunction	11027 Feb 25 14:18	11° \mathcal{H} 12'56	0°56'18				
minimum elong	11027 Feb 25 14:20	11° \mathcal{H} 12'57	0°56'34	conjunction	11033 May 12 05:37	27° \mathcal{B} 05'55	-1°21'55
max. Earth dist.	11027 Feb 25 03:25	11° \mathcal{H} 09'31	10.41385 AU	minimum elong	11033 May 12 05:35	27° \mathcal{B} 05'55	1°22'25
morning rise	11027 Mar 14 23:59	13° \mathcal{H} 23'02		max. Earth dist.	11033 May 12 07:04	27° \mathcal{B} 06'22	10.66438 AU
retrograde	11027 Jun 24 06:47	20° \mathcal{H} 59'20		morning rise	11033 May 29 02:01	29° \mathcal{B} 09'26	
opposition	11027 Aug 30 22:43	17° \mathcal{H} 36'54	0°55'43		11033 Jun 05 03:55	0° \mathcal{I}	
min. Earth dist.	11027 Aug 31 06:20	17° \mathcal{H} 35'24	8.43183 AU	retrograde	11033 Sep 07 16:41	6° \mathcal{I} 33'57	
direct	11027 Nov 08 09:36	14° \mathcal{H} 10'08		opposition	11033 Nov 16 00:54	3° \mathcal{I} 13'29	-1°50'41
evening set	11028 Feb 21 12:58	21° \mathcal{H} 59'37		min. Earth dist.	11033 Nov 15 21:57	3° \mathcal{I} 14'02	8.68306 AU
					11034 Jan 12 01:31	30° \mathcal{R} \mathcal{B}	
conjunction	11028 Mar 09 23:44	24° \mathcal{H} 09'39	0°32'51	direct	11034 Jan 25 00:09	29° \mathcal{B} 51'39	
minimum elong	11028 Mar 09 23:45	24° \mathcal{H} 09'39	0°32'59		11034 Feb 06 19:34	0° \mathcal{I}	
max. Earth dist.	11028 Mar 09 14:43	24° \mathcal{H} 06'50	10.45083 AU	evening set	11034 May 07 19:22	7° \mathcal{I} 19'07	
morning rise	11028 Mar 27 07:10	26° \mathcal{H} 18'42					
	11028 Apr 28 16:04	0° Υ		conjunction	11034 May 24 15:20	9° \mathcal{I} 22'04	-1°36'49
retrograde	11028 Jul 06 10:21	3° Υ 52'07		minimum elong	11034 May 24 15:18	9° \mathcal{I} 22'03	1°37'23
opposition	11028 Sep 12 06:37	0° Υ 30'12	0°25'33	max. Earth dist.	11034 May 24 19:39	9° \mathcal{I} 23'23	10.69861 AU
min. Earth dist.	11028 Sep 12 12:39	0° Υ 29'02	8.47120 AU	morning rise	11034 Jun 10 10:23	11° \mathcal{I} 24'47	
	11028 Sep 18 17:39	30° \mathcal{R} \mathcal{H}		retrograde	11034 Sep 20 10:45	18° \mathcal{I} 48'57	
direct	11028 Nov 20 21:42	27° \mathcal{H} 04'06		opposition	11034 Nov 28 24:00	15° \mathcal{I} 28'24	-2°06'18
	11029 Jan 20 10:30	0° Υ		min. Earth dist.	11034 Nov 28 19:19	15° \mathcal{I} 29'18	8.71428 AU
evening set	11029 Mar 05 20:21	4° Υ 50'20		direct	11035 Feb 06 20:20	12° \mathcal{I} 07'18	
				evening set	11035 May 20 04:24	19° \mathcal{I} 31'28	
conjunction	11029 Mar 23 04:45	6° Υ 59'14	0°07'58				
minimum elong	11029 Mar 23 04:44	6° Υ 59'13	0°07'57	conjunction	11035 Jun 05 22:59	21° \mathcal{I} 33'41	-1°47'16
behind sun begin	11029 Mar 22 22:21	6° Υ 57'15		minimum elong	11035 Jun 05 22:58	21° \mathcal{I} 33'40	1°47'52
behind sun end	11029 Mar 23 11:08	7° Υ 01'12		max. Earth dist.	11035 Jun 06 04:50	21° \mathcal{I} 35'28	10.72586 AU
max. Earth dist.	11029 Mar 22 21:51	6° Υ 57'06	10.49252 AU	morning rise	11035 Jun 22 17:28	23° \mathcal{I} 35'53	
morning rise	11029 Apr 09 09:45	9° Υ 07'09			11035 Aug 29 08:41	0° \mathcal{E}	
retrograde	11029 Jul 19 10:51	16° Υ 37'52		retrograde	11035 Oct 03 02:24	1° \mathcal{E} 00'06	
desc. node	11029 Jul 20 13:05	16° Υ 37'49			11035 Nov 07 12:03	30° \mathcal{R} \mathcal{I}	
opposition	11029 Sep 25 13:11	13° Υ 16'28	-0°05'35	opposition	11035 Dec 11 21:31	27° \mathcal{I} 39'22	-2°16'09
min. Earth dist.	11029 Sep 25 17:51	13° Υ 15'34	8.51436 AU	min. Earth dist.	11035 Dec 11 15:54	27° \mathcal{I} 40'26	8.73768 AU
direct	11029 Dec 04 07:37	9° Υ 51'10		direct	11036 Feb 19 13:15	24° \mathcal{I} 18'49	
evening set	11030 Mar 18 23:29	17° Υ 33'48			11036 May 17 03:01	0° \mathcal{E}	
				evening set	11036 May 31 11:20	1° \mathcal{E} 40'11	
conjunction	11030 Apr 05 05:08	19° Υ 41'25	-0°17'12				

conjunction	11036 Jun 17 05:18	3° \mathring{C} 41'56	-1°52'51	conjunction	11042 Aug 29 15:31	16° \mathring{M} 43'00	-0°46'57
minimum elong	11036 Jun 17 05:17	3° \mathring{C} 41'56	1°53'29	minimum elong	11042 Aug 29 15:33	16° \mathring{M} 43'00	0°47'08
max. Earth dist.	11036 Jun 17 11:58	3° \mathring{C} 43'58	10.74449 AU	max. Earth dist.	11042 Aug 30 00:45	16° \mathring{M} 45'49	10.65054 AU
morning rise	11036 Jul 04 00:03	5° \mathring{C} 43'54		morning rise	11042 Sep 16 00:07	18° \mathring{M} 49'23	
retrograde	11036 Oct 14 17:10	13° \mathring{C} 08'41		retrograde	11042 Dec 29 14:58	26° \mathring{M} 25'27	
opposition	11036 Dec 23 17:47	9° \mathring{C} 47'36	-2°19'53	opposition	11043 Mar 09 10:30	23° \mathring{M} 00'43	-0°43'32
min. Earth dist.	11036 Dec 23 11:26	9° \mathring{C} 48'48	8.75144 AU	min. Earth dist.	11043 Mar 09 03:09	23° \mathring{M} 02'09	8.63074 AU
direct	11037 Mar 03 06:50	6° \mathring{C} 27'26		direct	11043 May 16 15:12	19° \mathring{M} 39'30	
evening set	11037 Jun 12 16:56	13° \mathring{C} 46'36		evening set	11043 Aug 25 03:21	27° \mathring{M} 00'46	
conjunction	11037 Jun 29 11:10	15° \mathring{C} 48'15	-1°53'24	conjunction	11043 Sep 11 11:37	29° \mathring{M} 07'25	-0°23'37
minimum elong	11037 Jun 29 11:11	15° \mathring{C} 48'15	1°54'01	minimum elong	11043 Sep 11 11:38	29° \mathring{M} 07'25	0°23'40
max. Earth dist.	11037 Jun 29 19:03	15° \mathring{C} 50'39	10.75284 AU	max. Earth dist.	11043 Sep 11 20:22	29° \mathring{M} 10'05	10.60975 AU
morning rise	11037 Jul 16 06:47	17° \mathring{C} 50'17			11043 Sep 18 15:21	0° \mathring{C}	
retrograde	11037 Oct 27 10:04	25° \mathring{C} 16'08		morning rise	11043 Sep 28 23:06	1° \mathring{C} 15'03	
opposition	11038 Jan 05 13:03	21° \mathring{C} 54'36	-2°17'25	retrograde	11044 Jan 11 17:55	8° \mathring{C} 53'41	
min. Earth dist.	11038 Jan 05 05:27	21° \mathring{C} 56'03	8.75427 AU	opposition	11044 Mar 21 06:37	5° \mathring{C} 28'23	-0°13'48
direct	11038 Mar 15 21:33	18° \mathring{C} 34'44		min. Earth dist.	11044 Mar 20 23:56	5° \mathring{C} 29'41	8.58799 AU
evening set	11038 Jun 24 22:14	25° \mathring{C} 52'21		direct	11044 May 28 05:59	2° \mathring{C} 06'30	
conjunction	11038 Jul 11 17:37	27° \mathring{C} 54'15	-1°48'54	evening set	11044 Sep 06 00:58	9° \mathring{C} 30'51	
minimum elong	11038 Jul 11 17:38	27° \mathring{C} 54'15	1°49'30	asc. node	11044 Sep 07 11:49	9° \mathring{C} 41'21	
max. Earth dist.	11038 Jul 12 03:04	27° \mathring{C} 57'07	10.75029 AU	conjunction	11044 Sep 23 11:59	11° \mathring{C} 38'45	0°01'05
morning rise	11038 Jul 28 14:46	29° \mathring{C} 56'41		minimum elong	11044 Sep 23 11:59	11° \mathring{C} 38'45	0°01'09
	11038 Jul 29 01:56	0° \mathring{C}		behind sun begin	11044 Sep 23 04:47	11° \mathring{C} 36'34	
retrograde	11038 Nov 09 03:44	7° \mathring{C} 24'03		behind sun end	11044 Sep 23 19:10	11° \mathring{C} 40'56	
opposition	11039 Jan 18 07:44	4° \mathring{C} 01'59	-2°08'50	max. Earth dist.	11044 Sep 23 19:00	11° \mathring{C} 40'53	10.56577 AU
min. Earth dist.	11039 Jan 17 23:06	4° \mathring{C} 03'37	8.74635 AU	morning rise	11044 Oct 11 02:07	13° \mathring{C} 47'38	
direct	11039 Mar 28 09:49	0° \mathring{C} 42'12		retrograde	11045 Jan 23 22:27	21° \mathring{C} 28'51	
evening set	11039 Jul 07 04:08	7° \mathring{C} 59'01		opposition	11045 Apr 03 04:18	18° \mathring{C} 03'05	0°16'54
conjunction	11039 Jul 24 01:17	10° \mathring{C} 01'27	-1°39'33	min. Earth dist.	11045 Apr 02 23:15	18° \mathring{C} 04'05	8.54316 AU
minimum elong	11039 Jul 24 01:19	10° \mathring{C} 01'28	1°40'05	direct	11045 Jun 09 23:37	14° \mathring{C} 40'28	
max. Earth dist.	11039 Jul 24 11:23	10° \mathring{C} 04'31	10.73759 AU	evening set	11045 Sep 19 03:24	22° \mathring{C} 08'32	
morning rise	11039 Aug 10 00:46	12° \mathring{C} 04'35		conjunction	11045 Oct 06 16:47	24° \mathring{C} 17'40	0°25'51
	11039 Sep 04 22:17	15° \mathring{C}		minimum elong	11045 Oct 06 16:46	24° \mathring{C} 17'40	0°26'04
retrograde	11039 Nov 21 22:36	19° \mathring{C} 33'47		max. Earth dist.	11045 Oct 06 21:16	24° \mathring{C} 19'03	10.52063 AU
opposition	11040 Jan 31 02:07	16° \mathring{C} 11'05	-1°54'30	morning rise	11045 Oct 24 09:12	26° \mathring{C} 27'42	
min. Earth dist.	11040 Jan 30 17:23	16° \mathring{C} 12'45	8.72870 AU		11045 Nov 24 16:30	0° \mathring{M}	
	11040 Feb 15 23:30	15° \mathring{R}		retrograde	11046 Feb 06 04:42	4° \mathring{M} 11'25	
direct	11040 Apr 08 22:30	12° \mathring{C} 51'11		opposition	11046 Apr 16 03:35	0° \mathring{M} 45'20	0°47'05
	11040 May 29 20:44	15° \mathring{C}		min. Earth dist.	11046 Apr 16 00:41	0° \mathring{M} 45'54	8.49833 AU
evening set	11040 Jul 18 11:39	20° \mathring{C} 07'57			11046 Apr 25 18:31	30° \mathring{R}	
conjunction	11040 Aug 04 11:01	22° \mathring{C} 11'10	-1°25'43	direct	11046 Jun 22 20:40	27° \mathring{C} 21'53	
minimum elong	11040 Aug 04 11:03	22° \mathring{C} 11'10	1°26'09		11046 Aug 17 21:38	0° \mathring{M}	
max. Earth dist.	11040 Aug 04 20:34	22° \mathring{C} 14'04	10.71584 AU	evening set	11046 Oct 02 11:04	4° \mathring{M} 54'15	
morning rise	11040 Aug 21 13:21	24° \mathring{C} 15'14		conjunction	11046 Oct 20 02:29	7° \mathring{M} 04'31	0°49'36
	11040 Oct 17 19:00	0° \mathring{M}		minimum elong	11046 Oct 20 02:27	7° \mathring{M} 04'30	0°49'56
retrograde	11040 Dec 03 18:41	1° \mathring{M} 46'29		max. Earth dist.	11046 Oct 20 04:30	7° \mathring{M} 05'08	10.47639 AU
	11041 Jan 20 20:38	30° \mathring{R}		morning rise	11046 Nov 06 20:30	9° \mathring{M} 15'33	
opposition	11041 Feb 11 20:29	28° \mathring{C} 23'07	-1°34'57		11047 Jan 01 03:35	15° \mathring{M}	
min. Earth dist.	11041 Feb 11 12:28	28° \mathring{C} 24'40	8.70259 AU	retrograde	11047 Feb 19 13:20	17° \mathring{M} 01'29	
direct	11041 Apr 21 10:30	25° \mathring{C} 02'55			11047 Apr 10 20:50	15° \mathring{R}	
	11041 Jul 10 12:07	0° \mathring{M}		opposition	11047 Apr 29 04:29	13° \mathring{M} 35'14	1°15'15
evening set	11041 Jul 30 21:27	2° \mathring{M} 20'24		min. Earth dist.	11047 Apr 29 03:32	13° \mathring{M} 35'25	8.45558 AU
conjunction	11041 Aug 16 23:33	4° \mathring{M} 24'36	-1°07'56	direct	11047 Jul 05 20:31	10° \mathring{M} 10'58	
minimum elong	11041 Aug 16 23:35	4° \mathring{M} 24'37	1°08'16		11047 Sep 21 21:11	15° \mathring{M}	
max. Earth dist.	11041 Aug 17 08:44	4° \mathring{M} 27'24	10.68639 AU	evening set	11047 Oct 15 23:39	17° \mathring{M} 47'57	
morning rise	11041 Sep 03 05:02	6° \mathring{M} 29'47		conjunction	11047 Nov 02 16:38	19° \mathring{M} 59'11	1°11'03
retrograde	11041 Dec 16 15:24	14° \mathring{M} 03'21		minimum elong	11047 Nov 02 16:36	19° \mathring{M} 59'11	1°11'29
opposition	11042 Feb 24 15:13	10° \mathring{M} 39'18	-1°10'58	max. Earth dist.	11047 Nov 02 16:45	19° \mathring{M} 59'13	10.43519 AU
min. Earth dist.	11042 Feb 24 07:37	10° \mathring{M} 40'45	8.66948 AU	morning rise	11047 Nov 20 11:28	22° \mathring{M} 11'02	
direct	11042 May 03 23:59	7° \mathring{M} 18'38		retrograde	11048 Mar 03 23:25	29° \mathring{M} 58'50	
evening set	11042 Aug 12 10:19	14° \mathring{M} 37'37		opposition	11048 May 11 07:23	26° \mathring{M} 32'33	1°39'53
				min. Earth dist.	11048 May 11 07:42	26° \mathring{M} 32'30	8.41707 AU

direct	11048 Jul 18 00:09	23° \mathbb{M} 07'32		direct	11054 Oct 06 03:33	12° \approx 19'31	
	11048 Oct 21 22:02	0° \mathbb{A}			11054 Dec 02 06:00	15° \approx	
evening set	11048 Oct 28 16:31	0° \mathbb{A} 49'09		evening set	11055 Jan 19 11:55	20° \approx 14'33	
conjunction	11048 Nov 15 10:33	3° \mathbb{A} 01'12	1°29'03	conjunction	11055 Feb 06 03:22	22° \approx 26'48	1°25'06
minimum elong	11048 Nov 15 10:30	3° \mathbb{A} 01'11	1°29'34	minimum elong	11055 Feb 06 03:24	22° \approx 26'49	1°25'32
max. Earth dist.	11048 Nov 15 09:03	3° \mathbb{A} 00'44	10.39924 AU	max. Earth dist.	11055 Feb 05 17:34	22° \approx 23'43	10.37491 AU
morning rise	11048 Dec 03 05:33	5° \mathbb{A} 13'37		morning rise	11055 Feb 23 15:48	24° \approx 38'12	
retrograde	11049 Mar 17 11:39	13° \mathbb{A} 02'47			11055 Apr 14 12:24	0° \mathbb{H}	
opposition	11049 May 24 12:17	9° \mathbb{A} 36'39	1°59'34	retrograde	11055 Jun 05 12:31	2° \mathbb{H} 19'24	
min. Earth dist.	11049 May 24 13:54	9° \mathbb{A} 36'20	8.38484 AU		11055 Jul 29 07:28	30° \mathbb{R} \approx	
direct	11049 Jul 31 06:22	6° \mathbb{A} 10'57		opposition	11055 Aug 11 20:39	28° \approx 56'37	1°34'24
evening set	11049 Nov 11 13:19	13° \mathbb{A} 56'57		min. Earth dist.	11055 Aug 12 04:11	28° \approx 55'07	8.38905 AU
				direct	11055 Oct 19 20:39	25° \approx 29'45	
conjunction	11049 Nov 29 07:51	16° \mathbb{A} 09'37	1°42'32		11056 Jan 03 23:12	0° \mathbb{H}	
minimum elong	11049 Nov 29 07:49	16° \mathbb{A} 09'36	1°43'07	evening set	11056 Feb 02 06:01	3° \mathbb{H} 23'12	
max. Earth dist.	11049 Nov 29 04:06	16° \mathbb{A} 08'26	10.37060 AU				
morning rise	11049 Dec 17 02:33	18° \mathbb{A} 22'24		conjunction	11056 Feb 19 19:50	5° \mathbb{H} 34'41	1°05'59
retrograde	11050 Mar 31 02:17	26° \mathbb{A} 12'09		minimum elong	11056 Feb 19 19:52	5° \mathbb{H} 34'42	1°06'19
opposition	11050 Jun 06 18:56	22° \mathbb{A} 46'23	2°13'08	max. Earth dist.	11056 Feb 19 10:05	5° \mathbb{H} 31'37	10.40358 AU
min. Earth dist.	11050 Jun 06 22:26	22° \mathbb{A} 45'41	8.36075 AU	morning rise	11056 Mar 08 06:19	7° \mathbb{H} 45'14	
direct	11050 Aug 13 14:09	19° \mathbb{A} 20'05		retrograde	11056 Jun 17 18:48	15° \mathbb{H} 23'17	
evening set	11050 Nov 25 12:52	27° \mathbb{A} 09'58		opposition	11056 Aug 24 06:31	12° \mathbb{H} 01'04	1°08'29
				min. Earth dist.	11056 Aug 24 14:35	11° \mathbb{H} 59'29	8.42035 AU
conjunction	11050 Dec 13 07:23	29° \mathbb{A} 23'01	1°50'42	direct	11056 Nov 01 12:36	8° \mathbb{H} 34'33	
minimum elong	11050 Dec 13 07:23	29° \mathbb{A} 23'00	1°51'19	evening set	11057 Feb 14 20:12	16° \mathbb{H} 25'39	
max. Earth dist.	11050 Dec 13 01:07	29° \mathbb{A} 21'02	10.35092 AU				
	11050 Dec 18 05:11	0° \mathbb{B}		conjunction	11057 Mar 04 07:58	18° \mathbb{H} 36'11	0°43'36
morning rise	11050 Dec 31 01:26	1° \mathbb{B} 35'58		minimum elong	11057 Mar 04 08:00	18° \mathbb{H} 36'12	0°43'47
retrograde	11051 Apr 13 16:00	9° \mathbb{B} 25'29		max. Earth dist.	11057 Mar 03 21:47	18° \mathbb{H} 33'00	10.43740 AU
opposition	11051 Jun 20 03:22	6° \mathbb{B} 00'14	2°19'44	morning rise	11057 Mar 21 16:27	20° \mathbb{H} 45'46	
min. Earth dist.	11051 Jun 20 08:51	5° \mathbb{B} 59'08	8.34615 AU	retrograde	11057 Jun 30 23:23	28° \mathbb{H} 20'50	
direct	11051 Aug 27 02:59	2° \mathbb{B} 33'29		opposition	11057 Sep 06 15:32	24° \mathbb{H} 59'10	0°39'15
evening set	11051 Dec 09 13:44	10° \mathbb{B} 26'24		min. Earth dist.	11057 Sep 06 23:40	24° \mathbb{H} 57'35	8.45562 AU
				direct	11057 Nov 15 02:37	21° \mathbb{H} 33'09	
conjunction	11051 Dec 27 07:51	12° \mathbb{B} 39'35	1°53'01	evening set	11058 Feb 28 06:21	29° \mathbb{H} 21'25	
minimum elong	11051 Dec 27 07:51	12° \mathbb{B} 39'35	1°53'39		11058 Mar 05 11:50	0° \mathbb{Y}	
max. Earth dist.	11051 Dec 26 23:20	12° \mathbb{B} 36'54	10.34133 AU				
morning rise	11052 Jan 14 00:55	14° \mathbb{B} 52'28		conjunction	11058 Mar 17 15:44	1° \mathbb{Y} 30'54	0°19'10
retrograde	11052 Apr 26 04:18	22° \mathbb{B} 40'58		minimum elong	11058 Mar 17 15:45	1° \mathbb{Y} 30'55	0°19'12
opposition	11052 Jul 02 13:03	19° \mathbb{B} 16'19	2°18'54	max. Earth dist.	11058 Mar 17 05:55	1° \mathbb{Y} 27'51	10.47423 AU
min. Earth dist.	11052 Jul 02 19:59	19° \mathbb{B} 14'56	8.34188 AU	morning rise	11058 Apr 03 21:59	3° \mathbb{Y} 39'27	
direct	11052 Sep 08 18:40	15° \mathbb{B} 49'18		retrograde	11058 Jul 14 00:26	11° \mathbb{Y} 11'53	
evening set	11052 Dec 22 14:43	23° \mathbb{B} 44'08		opposition	11058 Sep 19 23:30	7° \mathbb{Y} 50'40	0°08'19
				min. Earth dist.	11058 Sep 20 06:36	7° \mathbb{Y} 49'17	8.49345 AU
conjunction	11053 Jan 09 08:13	25° \mathbb{B} 57'14	1°49'19	direct	11058 Nov 28 15:42	4° \mathbb{Y} 25'17	
minimum elong	11053 Jan 09 08:15	25° \mathbb{B} 57'14	1°49'56	desc. node	11058 Dec 28 17:12	5° \mathbb{Y} 10'58	
max. Earth dist.	11053 Jan 08 22:31	25° \mathbb{B} 54'11	10.34240 AU	evening set	11059 Mar 13 12:13	12° \mathbb{Y} 10'18	
morning rise	11053 Jan 27 00:02	28° \mathbb{B} 09'50					
	11053 Feb 11 06:23	0° \approx		conjunction	11059 Mar 30 19:04	14° \mathbb{Y} 18'37	-0°06'08
retrograde	11053 May 09 16:08	5° \approx 56'31		minimum elong	11059 Mar 30 19:04	14° \mathbb{Y} 18'37	0°06'14
opposition	11053 Jul 15 23:24	2° \approx 32'30	2°10'41	behind sun begin	11059 Mar 30 12:20	14° \mathbb{Y} 16'32	
min. Earth dist.	11053 Jul 16 06:51	2° \approx 31'01	8.34812 AU	behind sun end	11059 Mar 31 01:49	14° \mathbb{Y} 20'42	
	11053 Aug 20 19:11	30° \mathbb{R} \mathbb{B}		max. Earth dist.	11059 Mar 30 11:01	14° \mathbb{Y} 16'08	10.51310 AU
direct	11053 Sep 22 11:08	29° \mathbb{B} 05'22		morning rise	11059 Apr 16 22:57	16° \mathbb{Y} 26'03	
	11053 Oct 24 20:54	0° \approx		retrograde	11059 Jul 27 00:03	23° \mathbb{Y} 56'15	
evening set	11054 Jan 05 14:30	7° \approx 00'54		opposition	11059 Oct 03 06:20	20° \mathbb{Y} 35'20	-0°22'46
				min. Earth dist.	11059 Oct 03 11:17	20° \mathbb{Y} 34'22	8.53297 AU
conjunction	11054 Jan 23 07:11	9° \approx 13'43	1°39'50	direct	11059 Dec 12 02:52	17° \mathbb{Y} 10'40	
minimum elong	11054 Jan 23 07:14	9° \approx 13'43	1°40'22	evening set	11060 Mar 25 13:43	24° \mathbb{Y} 52'02	
max. Earth dist.	11054 Jan 22 21:12	9° \approx 10'34	10.35394 AU				
morning rise	11054 Feb 09 21:28	11° \approx 25'48		conjunction	11060 Apr 11 17:59	26° \mathbb{Y} 59'08	-0°30'49
	11054 Mar 12 18:53	15° \approx		minimum elong	11060 Apr 11 17:58	26° \mathbb{Y} 59'08	0°31'03
retrograde	11054 May 23 03:54	19° \approx 09'59		max. Earth dist.	11060 Apr 11 12:48	26° \mathbb{Y} 57'32	10.55289 AU
opposition	11054 Jul 29 10:08	15° \approx 46'36	1°55'32	morning rise	11060 Apr 28 19:25	29° \mathbb{Y} 05'26	
min. Earth dist.	11054 Jul 29 17:37	15° \approx 45'06	8.36428 AU		11060 May 06 09:04	0° \mathbb{B}	
	11054 Aug 08 06:04	15° \mathbb{R} \approx		retrograde	11060 Aug 07 23:10	6° \mathbb{B} 33'46	

opposition	11060 Oct 15 11:44	3°♄13'00 -0°52'27	morning rise	11066 Jul 11 09:54	12°♄56'08	
min. Earth dist.	11060 Oct 15 14:37	3°♄12'26 8.57273 AU	retrograde	11066 Oct 22 10:02	20°♄22'32	
	11060 Dec 09 15:19	30°♄♂	opposition	11066 Dec 31 11:00	17°♄00'30 -2°19'22	
direct	11060 Dec 24 10:04	29°♄♂49'02	min. Earth dist.	11066 Dec 31 03:00	17°♄02'01 8.72793 AU	
	11061 Jan 08 02:24	0°♄	direct	11067 Mar 10 20:37	13°♄39'51	
evening set	11061 Apr 07 11:16	7°♄26'37	evening set	11067 Jun 20 02:25	20°♄59'03	
conjunction	11061 Apr 24 12:49	9°♄32'29 -0°53'51	conjunction	11067 Jul 06 21:16	23°♄01'05 -1°51'28	
minimum elong	11061 Apr 24 12:47	9°♄32'28 0°54'13	minimum elong	11067 Jul 06 21:17	23°♄01'05 1°52'05	
max. Earth dist.	11061 Apr 24 10:04	9°♄31'38 10.59197 AU	max. Earth dist.	11067 Jul 07 06:30	23°♄03'54 10.72797 AU	
morning rise	11061 May 11 11:56	11°♄37'40	morning rise	11067 Jul 23 17:52	25°♄03'37	
	11061 Jun 10 04:43	15°♄		11067 Sep 08 18:22	0°♄	
retrograde	11061 Aug 20 19:46	19°♄04'31	retrograde	11067 Nov 04 02:16	2°♄31'08	
opposition	11061 Oct 28 15:32	15°♄43'47 -1°19'21		11068 Jan 01 21:20	30°♄♂	
min. Earth dist.	11061 Oct 28 16:50	15°♄43'32 8.61107 AU	opposition	11068 Jan 13 06:20	29°♄08'41 -2°13'19	
	11061 Nov 07 06:02	15°♄♂	min. Earth dist.	11068 Jan 12 21:55	29°♄10'17 8.72856 AU	
direct	11062 Jan 06 13:40	12°♄20'30	direct	11068 Mar 22 10:19	25°♄48'16	
	11062 Mar 05 06:42	15°♄		11068 Jun 03 17:55	0°♄	
evening set	11062 Apr 20 04:52	19°♄54'17	evening set	11068 Jul 01 08:22	3°♄06'12	
conjunction	11062 May 07 03:48	21°♄58'58 -1°14'11	conjunction	11068 Jul 18 04:40	5°♄08'35 -1°44'06	
minimum elong	11062 May 07 03:46	21°♄58'57 1°14'39	minimum elong	11068 Jul 18 04:42	5°♄08'35 1°44'40	
max. Earth dist.	11062 May 07 02:58	21°♄58'43 10.62871 AU	max. Earth dist.	11068 Jul 18 14:52	5°♄11'41 10.72445 AU	
morning rise	11062 May 24 01:02	24°♄03'10	morning rise	11068 Aug 04 03:19	7°♄11'37	
	11062 Jul 22 13:21	0°♄♂	retrograde	11068 Nov 15 19:59	14°♄40'38	
retrograde	11062 Sep 02 13:32	1°♄♂28'59	opposition	11069 Jan 25 01:10	11°♄17'43 -2°01'18	
	11062 Oct 15 19:19	30°♄♂	min. Earth dist.	11069 Jan 24 15:55	11°♄19'28 8.72059 AU	
opposition	11062 Nov 10 17:50	28°♄08'10 -1°42'18	direct	11069 Apr 04 00:57	7°♄57'26	
min. Earth dist.	11062 Nov 10 17:32	28°♄08'13 8.64638 AU		11069 Jul 11 13:34	15°♄	
direct	11063 Jan 19 16:29	24°♄45'31	evening set	11069 Jul 13 15:09	15°♄14'45	
	11063 Apr 13 07:03	0°♄♂				
evening set	11063 May 02 18:39	2°♄♂15'37	conjunction	11069 Jul 30 13:37	17°♄17'46 -1°32'04	
conjunction	11063 May 19 15:23	4°♄♂19'15 -1°30'55	minimum elong	11069 Jul 30 13:39	17°♄17'46 1°32'34	
minimum elong	11063 May 19 15:21	4°♄♂19'15 1°31'28	max. Earth dist.	11069 Jul 31 01:11	17°♄21'17 10.71255 AU	
max. Earth dist.	11063 May 19 16:32	4°♄♂19'36 10.66156 AU	morning rise	11069 Aug 16 14:43	19°♄21'33	
morning rise	11063 Jun 05 11:14	6°♄♂22'36	retrograde	11069 Nov 28 16:24	26°♄52'22	
retrograde	11063 Sep 15 06:52	13°♄♂47'55	opposition	11070 Feb 06 19:46	23°♄28'58 -1°43'48	
opposition	11063 Nov 23 18:20	10°♄♂26'53 -2°00'21	min. Earth dist.	11070 Feb 06 09:37	23°♄30'54 8.70442 AU	
min. Earth dist.	11063 Nov 23 15:55	10°♄♂27'21 8.67704 AU	direct	11070 Apr 16 12:57	20°♄08'41	
direct	11064 Feb 01 15:58	7°♄♂04'50	evening set	11070 Jul 26 00:01	27°♄26'09	
evening set	11064 May 14 05:27	14°♄♂31'31	conjunction	11070 Aug 12 01:05	29°♄30'00 -1°15'51	
conjunction	11064 May 31 00:41	16°♄♂34'20 -1°43'24	minimum elong	11070 Aug 12 01:08	29°♄30'01 1°16'14	
minimum elong	11064 May 31 00:39	16°♄♂34'20 1°43'59	max. Earth dist.	11070 Aug 12 13:19	29°♄33'44 10.69289 AU	
max. Earth dist.	11064 May 31 04:37	16°♄♂35'33 10.68903 AU		11070 Aug 16 03:26	0°♄♂	
morning rise	11064 Jun 16 19:36	18°♄♂37'04	morning rise	11070 Aug 29 05:05	1°♄♂34'46	
retrograde	11064 Sep 26 23:26	26°♄♂02'17	retrograde	11070 Dec 11 13:44	9°♄♂07'36	
opposition	11064 Dec 05 17:03	22°♄♂40'58 -2°12'48	opposition	11071 Feb 19 14:22	5°♄♂43'43 -1°21'32	
min. Earth dist.	11064 Dec 05 12:06	22°♄♂41'54 8.70155 AU	min. Earth dist.	11071 Feb 19 04:13	5°♄♂45'40 8.68094 AU	
direct	11065 Feb 13 12:05	19°♄♂19'28	direct	11071 Apr 29 01:13	2°♄♂23'18	
evening set	11065 May 26 13:50	26°♄♂43'10	evening set	11071 Aug 07 11:45	9°♄♂41'43	
conjunction	11065 Jun 12 08:16	28°♄♂45'25 -1°51'08	conjunction	11071 Aug 24 15:37	11°♄♂46'36 -0°56'05	
minimum elong	11065 Jun 12 08:15	28°♄♂45'25 1°51'45	minimum elong	11071 Aug 24 15:39	11°♄♂46'37 0°56'21	
max. Earth dist.	11065 Jun 12 15:01	28°♄♂47'29 10.70982 AU	max. Earth dist.	11071 Aug 25 02:54	11°♄♂50'03 10.66646 AU	
	11065 Jun 22 12:28	0°♄♂	morning rise	11071 Sep 10 22:48	13°♄♂52'28	
morning rise	11065 Jun 29 02:51	0°♄♂47'46	retrograde	11071 Dec 24 13:04	21°♄♂27'29	
retrograde	11065 Oct 09 16:38	8°♄♂13'23	opposition	11072 Mar 03 09:30	18°♄♂03'11 -0°55'23	
opposition	11065 Dec 18 14:34	4°♄♂51'43 -2°19'13	min. Earth dist.	11072 Mar 03 00:29	18°♄♂04'56 8.65126 AU	
min. Earth dist.	11065 Dec 18 07:35	4°♄♂53'03 8.71878 AU	direct	11072 May 10 14:49	14°♄♂42'28	
direct	11066 Feb 26 06:03	1°♄♂30'42	evening set	11072 Aug 19 03:02	22°♄♂02'38	
evening set	11066 Jun 07 20:28	8°♄♂51'51	conjunction	11072 Sep 05 09:46	24°♄♂08'40 -0°33'37	
conjunction	11066 Jun 24 14:44	10°♄♂53'51 -1°53'51	minimum elong	11072 Sep 05 09:48	24°♄♂08'40 0°33'44	
minimum elong	11066 Jun 24 14:44	10°♄♂53'51 1°54'28	max. Earth dist.	11072 Sep 05 19:38	24°♄♂11'41 10.63444 AU	
max. Earth dist.	11066 Jun 24 23:22	10°♄♂56'30 10.72299 AU	morning rise	11072 Sep 22 20:05	26°♄♂15'43	
				11072 Oct 26 11:46	0°♄♂	

retrograde	11073 Jan 05 14:18	3°♂53'02		minimum elong	11078 Nov 23 16:58	10°♂46'26	1°37'50
opposition	11073 Mar 16 05:25	0°♂28'22 -0°26'28		max. Earth dist.	11078 Nov 23 12:21	10°♂44'59	10.40508 AU
min. Earth dist.	11073 Mar 15 21:48	0°♂29'51 8.61680 AU		morning rise	11078 Dec 11 11:52	12°♂58'47	
	11073 Mar 22 07:41	30°♂♂		retrograde	11079 Mar 25 13:28	20°♂47'12	
direct	11073 May 23 05:27	27°♂07'13		opposition	11079 Jun 01 10:17	17°♂21'48	2°07'56
	11073 Jul 21 06:50	0°♂		min. Earth dist.	11079 Jun 01 14:18	17°♂20'59	8.39167 AU
evening set	11073 Aug 31 22:33	4°♂29'53		direct	11079 Aug 08 05:48	13°♂56'10	
				evening set	11079 Nov 19 20:31	21°♂43'19	
conjunction	11073 Sep 18 08:13	6°♂37'05 -0°09'27					
minimum elong	11073 Sep 18 08:13	6°♂37'05 0°09'26		conjunction	11079 Dec 07 14:55	23°♂55'54	1°47'47
behind sun begin	11073 Sep 18 02:15	6°♂35'17		minimum elong	11079 Dec 07 14:53	23°♂55'53	1°48'25
behind sun end	11073 Sep 18 14:12	6°♂38'54		max. Earth dist.	11079 Dec 07 08:29	23°♂53'53	10.37811 AU
max. Earth dist.	11073 Sep 18 16:50	6°♂39'43 10.59831 AU		morning rise	11079 Dec 25 09:12	26°♂08'30	
morning rise	11073 Oct 05 21:18	8°♂45'19			11080 Jan 28 05:20	0°♂	
retrograde	11074 Jan 18 16:22	16°♂24'59		retrograde	11080 Apr 07 02:12	3°♂57'08	
asc. node	11074 Feb 09 04:59	16°♂01'39		opposition	11080 Jun 13 17:09	0°♂31'57	2°17'38
opposition	11074 Mar 29 02:19	12°♂59'57 0°03'57		min. Earth dist.	11080 Jun 13 22:19	0°♂30'55	8.36920 AU
min. Earth dist.	11074 Mar 28 19:54	13°♂01'12 8.57909 AU			11080 Jun 20 09:11	30°♂♂	
direct	11074 Jun 04 23:31	9°♂38'14		direct	11080 Aug 20 16:33	27°♂05'39	
evening set	11074 Sep 13 22:44	17°♂04'06			11080 Oct 18 21:21	0°♂	
				evening set	11080 Dec 02 19:49	4°♂56'11	
conjunction	11074 Oct 01 11:08	19°♂12'29 0°15'27					
minimum elong	11074 Oct 01 11:07	19°♂12'29 0°15'37		conjunction	11080 Dec 20 14:11	7°♂09'03	1°52'42
behind sun begin	11074 Oct 01 09:41	19°♂12'03		minimum elong	11080 Dec 20 14:11	7°♂09'03	1°53'20
behind sun end	11074 Oct 01 12:34	19°♂12'55		max. Earth dist.	11080 Dec 20 06:24	7°♂06'37	10.36006 AU
max. Earth dist.	11074 Oct 01 18:36	19°♂14'46 10.55941 AU		morning rise	11081 Jan 07 07:32	9°♂21'43	
morning rise	11074 Oct 19 02:29	21°♂21'48		retrograde	11081 Apr 20 14:41	17°♂09'46	
retrograde	11075 Jan 31 21:43	29°♂03'44		opposition	11081 Jun 27 01:24	13°♂44'55	2°20'06
opposition	11075 Apr 11 00:30	25°♂38'24 0°34'27		min. Earth dist.	11081 Jun 27 07:41	13°♂43'39	8.35607 AU
min. Earth dist.	11075 Apr 10 19:17	25°♂39'26 8.53933 AU		direct	11081 Sep 03 05:24	10°♂18'04	
direct	11075 Jun 17 19:19	22°♂16'01		evening set	11081 Dec 16 20:01	18°♂11'04	
evening set	11075 Sep 27 03:55	29°♂45'37					
	11075 Sep 29 03:27	0°♂		conjunction	11082 Jan 03 13:56	20°♂24'01	1°51'39
conjunction	11075 Oct 14 18:28	1°♂55'07 0°39'43		minimum elong	11082 Jan 03 13:56	20°♂24'01	1°52'16
minimum elong	11075 Oct 14 18:26	1°♂55'06 0°40'01		max. Earth dist.	11082 Jan 03 04:35	20°♂21'05	10.35189 AU
max. Earth dist.	11075 Oct 14 23:31	1°♂56'40 10.51890 AU		morning rise	11082 Jan 21 06:06	22°♂36'31	
morning rise	11075 Nov 01 11:30	4°♂05'24			11082 Apr 13 10:39	0°♂	
retrograde	11076 Feb 14 06:36	11°♂49'26		retrograde	11082 May 04 03:02	0°♂23'09	
opposition	11076 Apr 23 00:09	8°♂23'55 1°03'33			11082 May 24 20:22	30°♂♂	
min. Earth dist.	11076 Apr 22 21:05	8°♂24'31 8.49868 AU		opposition	11082 Jul 10 10:32	26°♂58'45	2°15'09
direct	11076 Jun 29 15:42	5°♂00'44		min. Earth dist.	11082 Jul 10 18:20	26°♂57'11	8.35294 AU
evening set	11076 Oct 09 13:54	12°♂34'36		direct	11082 Sep 16 19:31	23°♂31'29	
					11082 Dec 18 23:09	0°♂	
conjunction	11076 Oct 27 06:04	14°♂45'05 1°02'14		evening set	11082 Dec 30 19:34	1°♂25'53	
minimum elong	11076 Oct 27 06:02	14°♂45'05 1°02'38					
max. Earth dist.	11076 Oct 27 07:41	14°♂45'35 10.47812 AU		conjunction	11083 Jan 17 12:38	3°♂38'40	1°44'42
	11076 Oct 29 06:11	15°♂		minimum elong	11083 Jan 17 12:39	3°♂38'41	1°45'16
morning rise	11076 Nov 14 00:17	16°♂56'15		max. Earth dist.	11083 Jan 17 01:37	3°♂35'12	10.35399 AU
retrograde	11077 Feb 26 15:32	24°♂42'11		morning rise	11083 Feb 04 03:29	5°♂50'50	
opposition	11077 May 06 01:43	21°♂16'35 1°29'46		retrograde	11083 May 17 14:04	13°♂35'22	
min. Earth dist.	11077 May 06 01:21	21°♂16'40 8.45877 AU		opposition	11083 Jul 23 20:21	10°♂11'27	2°03'02
direct	11077 Jul 12 17:10	17°♂52'34		min. Earth dist.	11083 Jul 24 05:18	10°♂09'40	8.35992 AU
evening set	11077 Oct 23 04:20	25°♂31'02		direct	11083 Sep 30 11:11	6°♂44'00	
				evening set	11084 Jan 13 17:05	14°♂38'37	
conjunction	11077 Nov 09 21:41	27°♂42'24 1°21'46			11084 Jan 16 14:23	15°♂	
minimum elong	11077 Nov 09 21:38	27°♂42'24 1°22'16		conjunction	11084 Jan 31 08:59	16°♂51'00	1°32'14
max. Earth dist.	11077 Nov 09 19:42	27°♂41'47 10.43924 AU		minimum elong	11084 Jan 31 09:02	16°♂51'01	1°32'44
morning rise	11077 Nov 27 16:34	29°♂54'16		max. Earth dist.	11084 Jan 30 21:07	16°♂47'16	10.36613 AU
	11077 Nov 28 11:26	0°♂		morning rise	11084 Feb 17 22:21	19°♂02'38	
retrograde	11078 Mar 12 01:41	7°♂41'45		retrograde	11084 May 29 21:23	26°♂44'36	
opposition	11078 May 19 05:09	4°♂16'12 1°51'39		opposition	11084 Aug 05 06:13	23°♂21'11	1°44'29
min. Earth dist.	11078 May 19 07:26	4°♂15'45 8.42221 AU		min. Earth dist.	11084 Aug 05 15:27	23°♂19'21	8.37654 AU
direct	11078 Jul 25 22:13	0°♂51'21		direct	11084 Oct 13 04:54	19°♂53'45	
evening set	11078 Nov 05 22:56	8°♂34'22		evening set	11085 Jan 26 11:54	27°♂47'30	
conjunction	11078 Nov 23 17:00	10°♂46'26 1°37'16		conjunction	11085 Feb 13 02:25	29°♂59'16	1°15'00

minimum elong	11085 Feb 13 02:28	29° \approx 59'17	1°15'23	evening set	11091 Apr 14 17:45	14° \mathfrak{B} 27'21	
max. Earth dist.	11085 Feb 12 14:43	29° \approx 55'36	10.38756 AU		11091 Apr 19 05:21	15° \mathfrak{B}	
	11085 Feb 13 04:44	0° \mathfrak{H}					
morning rise	11085 Mar 02 14:02	2° \mathfrak{H} 10'11		conjunction	11091 May 01 17:50	16° \mathfrak{B} 32'24	-1°05'10
retrograde	11085 Jun 12 03:48	9° \mathfrak{H} 49'16		minimum elong	11091 May 01 17:48	16° \mathfrak{B} 32'24	1°05'36
opposition	11085 Aug 18 15:33	6° \mathfrak{H} 26'22	1°20'35	max. Earth dist.	11091 May 01 16:56	16° \mathfrak{B} 32'08	10.62218 AU
min. Earth dist.	11085 Aug 19 00:04	6° \mathfrak{H} 24'41	8.40184 AU	morning rise	11091 May 18 15:55	18° \mathfrak{B} 36'54	
direct	11085 Oct 26 20:55	2° \mathfrak{H} 59'11		retrograde	11091 Aug 28 00:47	26° \mathfrak{B} 02'31	
evening set	11086 Feb 09 03:16	10° \mathfrak{H} 51'05		opposition	11091 Nov 05 02:08	22° \mathfrak{B} 41'55	-1°32'10
				min. Earth dist.	11091 Nov 05 01:11	22° \mathfrak{B} 42'06	8.64248 AU
conjunction	11086 Feb 26 16:05	13° \mathfrak{H} 02'04	0°53'58	direct	11092 Jan 14 02:15	19° \mathfrak{B} 19'14	
minimum elong	11086 Feb 26 16:07	13° \mathfrak{H} 02'04	0°54'13	evening set	11092 Apr 26 08:42	26° \mathfrak{B} 50'24	
max. Earth dist.	11086 Feb 26 05:43	12° \mathfrak{H} 58'49	10.41701 AU				
morning rise	11086 Mar 16 01:36	15° \mathfrak{H} 12'05		conjunction	11092 May 13 06:30	28° \mathfrak{B} 54'21	-1°23'35
retrograde	11086 Jun 25 09:17	22° \mathfrak{H} 48'12		minimum elong	11092 May 13 06:28	28° \mathfrak{B} 54'20	1°24'07
opposition	11086 Sep 01 00:22	19° \mathfrak{H} 25'48	0°52'42	max. Earth dist.	11092 May 13 08:31	28° \mathfrak{B} 54'58	10.66066 AU
min. Earth dist.	11086 Sep 01 07:42	19° \mathfrak{H} 24'21	8.43444 AU		11092 May 22 04:14	0° \mathfrak{H}	
direct	11086 Nov 09 10:39	15° \mathfrak{H} 59'05		morning rise	11092 May 30 02:47	0° \mathfrak{H} 57'53	
evening set	11087 Feb 22 14:32	23° \mathfrak{H} 48'21		retrograde	11092 Sep 08 19:53	8° \mathfrak{H} 22'44	
				opposition	11092 Nov 17 02:52	5° \mathfrak{H} 02'11	-1°52'29
conjunction	11087 Mar 12 01:13	25° \mathfrak{H} 58'20	0°30'20	min. Earth dist.	11092 Nov 16 23:58	5° \mathfrak{H} 02'44	8.67885 AU
minimum elong	11087 Mar 12 01:14	25° \mathfrak{H} 58'20	0°30'27	direct	11093 Jan 26 00:42	1° \mathfrak{H} 40'19	
max. Earth dist.	11087 Mar 11 16:36	25° \mathfrak{H} 55'38	10.45292 AU	evening set	11093 May 08 20:34	9° \mathfrak{H} 07'56	
morning rise	11087 Mar 29 08:26	28° \mathfrak{H} 07'20					
	11087 Apr 14 02:48	0° \mathfrak{Y}		conjunction	11093 May 25 16:24	11° \mathfrak{H} 10'56	-1°38'02
retrograde	11087 Jul 08 11:54	5° \mathfrak{Y} 40'36		minimum elong	11093 May 25 16:22	11° \mathfrak{H} 10'55	1°38'38
opposition	11087 Sep 14 08:16	2° \mathfrak{Y} 18'43	0°22'24	max. Earth dist.	11093 May 25 20:21	11° \mathfrak{H} 12'09	10.69390 AU
min. Earth dist.	11087 Sep 14 14:36	2° \mathfrak{Y} 17'29	8.47274 AU	morning rise	11093 Jun 11 11:29	13° \mathfrak{H} 13'43	
	11087 Oct 16 20:47	30° \mathfrak{R} \mathfrak{H}		retrograde	11093 Sep 21 12:19	20° \mathfrak{H} 38'16	
direct	11087 Nov 22 22:46	28° \mathfrak{H} 52'39		opposition	11093 Nov 30 02:09	17° \mathfrak{H} 17'39	-2°07'31
	11087 Dec 29 14:22	0° \mathfrak{Y}		min. Earth dist.	11093 Nov 29 22:03	17° \mathfrak{H} 18'25	8.70924 AU
evening set	11088 Mar 06 21:41	6° \mathfrak{Y} 38'43		direct	11094 Feb 07 20:58	13° \mathfrak{H} 56'29	
				evening set	11094 May 21 05:50	21° \mathfrak{H} 20'54	
conjunction	11088 Mar 24 05:52	8° \mathfrak{Y} 47'33	0°05'25				
minimum elong	11088 Mar 24 05:51	8° \mathfrak{Y} 47'33	0°05'23	conjunction	11094 Jun 07 00:19	23° \mathfrak{H} 23'10	-1°47'58
behind sun begin	11088 Mar 23 22:58	8° \mathfrak{Y} 45'25		minimum elong	11094 Jun 07 00:18	23° \mathfrak{H} 23'10	1°48'36
behind sun end	11088 Mar 24 12:45	8° \mathfrak{Y} 49'40		max. Earth dist.	11094 Jun 07 05:36	23° \mathfrak{H} 24'47	10.72054 AU
max. Earth dist.	11088 Mar 23 22:37	8° \mathfrak{Y} 45'18	10.49349 AU	morning rise	11094 Jun 23 18:57	25° \mathfrak{H} 25'28	
morning rise	11088 Apr 10 10:44	10° \mathfrak{Y} 55'26			11094 Aug 05 12:13	0° \mathfrak{B}	
desc. node	11088 Jun 13 08:28	17° \mathfrak{Y} 14'09		retrograde	11094 Oct 04 03:45	2° \mathfrak{B} 50'08	
retrograde	11088 Jul 20 11:44	18° \mathfrak{Y} 26'08			11094 Dec 06 05:04	30° \mathfrak{R} \mathfrak{H}	
opposition	11088 Sep 26 14:50	15° \mathfrak{Y} 04'44	-0°08'44	opposition	11094 Dec 13 00:02	29° \mathfrak{H} 29'18	-2°16'43
min. Earth dist.	11088 Sep 26 20:15	15° \mathfrak{Y} 03'41	8.51483 AU	min. Earth dist.	11094 Dec 12 18:29	29° \mathfrak{H} 30'21	8.73224 AU
direct	11088 Dec 05 09:37	11° \mathfrak{Y} 39'24		direct	11095 Feb 20 16:33	26° \mathfrak{H} 08'42	
evening set	11089 Mar 20 00:34	19° \mathfrak{Y} 21'57			11095 May 02 00:29	0° \mathfrak{B}	
				evening set	11095 Jun 02 12:53	3° \mathfrak{B} 30'19	
conjunction	11089 Apr 06 05:59	21° \mathfrak{Y} 29'31	-0°19'42				
minimum elong	11089 Apr 06 05:58	21° \mathfrak{Y} 29'31	0°19'53	conjunction	11095 Jun 19 06:56	5° \mathfrak{B} 32'10	-1°53'01
max. Earth dist.	11089 Apr 05 23:59	21° \mathfrak{Y} 27'39	10.53665 AU	minimum elong	11095 Jun 19 06:56	5° \mathfrak{B} 32'10	1°53'40
morning rise	11089 Apr 23 08:35	23° \mathfrak{Y} 36'15		max. Earth dist.	11095 Jun 19 14:05	5° \mathfrak{B} 34'21	10.73908 AU
	11089 Jun 28 02:18	0° \mathfrak{B}		morning rise	11095 Jul 06 01:47	7° \mathfrak{B} 34'13	
retrograde	11089 Aug 02 09:55	1° \mathfrak{B} 04'46		retrograde	11095 Oct 16 20:28	14° \mathfrak{B} 59'27	
	11089 Sep 07 11:03	30° \mathfrak{R} \mathfrak{Y}		opposition	11095 Dec 25 20:31	11° \mathfrak{B} 38'17	-2°19'47
opposition	11089 Oct 09 20:07	27° \mathfrak{Y} 43'45	-0°39'08	min. Earth dist.	11095 Dec 25 13:21	11° \mathfrak{B} 39'38	8.74622 AU
min. Earth dist.	11089 Oct 10 00:07	27° \mathfrak{Y} 42'59	8.55854 AU	direct	11096 Mar 04 09:08	8° \mathfrak{B} 18'06	
direct	11089 Dec 18 17:32	24° \mathfrak{Y} 19'17		evening set	11096 Jun 13 18:50	15° \mathfrak{B} 37'27	
	11090 Mar 16 05:36	0° \mathfrak{B}					
evening set	11090 Apr 01 23:10	1° \mathfrak{B} 58'03		conjunction	11096 Jun 30 13:18	17° \mathfrak{B} 39'12	-1°53'01
				minimum elong	11096 Jun 30 13:18	17° \mathfrak{B} 39'12	1°53'38
conjunction	11090 Apr 19 01:47	4° \mathfrak{B} 04'20	-0°43'33	max. Earth dist.	11096 Jun 30 22:21	17° \mathfrak{B} 41'58	10.74794 AU
minimum elong	11090 Apr 19 01:46	4° \mathfrak{B} 04'20	0°43'53	morning rise	11096 Jul 17 08:58	19° \mathfrak{B} 41'20	
max. Earth dist.	11090 Apr 18 21:50	4° \mathfrak{B} 03'07	10.58021 AU	retrograde	11096 Oct 28 13:09	27° \mathfrak{B} 07'33	
morning rise	11090 May 06 02:04	6° \mathfrak{B} 09'55		opposition	11097 Jan 06 15:54	23° \mathfrak{B} 45'55	-2°16'37
retrograde	11090 Aug 15 05:45	13° \mathfrak{B} 36'44		min. Earth dist.	11097 Jan 06 07:28	23° \mathfrak{B} 47'31	8.74972 AU
opposition	11090 Oct 22 23:55	10° \mathfrak{B} 15'59	-1°07'22	direct	11097 Mar 16 23:26	20° \mathfrak{B} 26'01	
min. Earth dist.	11090 Oct 23 01:29	10° \mathfrak{B} 15'41	8.60174 AU	evening set	11097 Jun 26 00:31	27° \mathfrak{B} 43'50	
direct	11090 Dec 31 23:02	6° \mathfrak{B} 52'26					

conjunction	11097 Jul 12 20:02	29° \mathring{O} 45'49	-1°47'58
minimum elong	11097 Jul 12 20:04	29° \mathring{O} 45'49	1°48'34
max. Earth dist.	11097 Jul 13 05:53	29° \mathring{O} 48'49	10.74610 AU
	11097 Jul 14 18:39	0° \mathring{O}	
morning rise	11097 Jul 29 17:22	1° \mathring{O} 48'20	
retrograde	11097 Nov 10 07:25	9° \mathring{O} 16'01	
opposition	11098 Jan 19 10:53	5° \mathring{O} 53'53	-2°07'22
min. Earth dist.	11098 Jan 19 02:13	5° \mathring{O} 55'32	8.74243 AU
direct	11098 Mar 29 12:32	2° \mathring{O} 34'05	
evening set	11098 Jul 08 06:44	9° \mathring{O} 51'05	
conjunction	11098 Jul 25 03:58	11° \mathring{O} 53'36	-1°38'06
minimum elong	11098 Jul 25 04:00	11° \mathring{O} 53'37	1°38'37
max. Earth dist.	11098 Jul 25 13:38	11° \mathring{O} 56'33	10.73398 AU
morning rise	11098 Aug 11 03:45	13° \mathring{O} 56'51	
	11098 Aug 20 02:53	15° \mathring{O}	
retrograde	11098 Nov 23 02:33	21° \mathring{O} 26'19	
opposition	11099 Feb 01 05:34	18° \mathring{O} 03'36	-1°52'25
min. Earth dist.	11099 Jan 31 21:15	18° \mathring{O} 05'11	8.72531 AU
	11099 Mar 24 04:51	15° \mathring{R} \mathring{O}	
direct	11099 Apr 11 00:30	14° \mathring{O} 43'41	
	11099 Apr 28 18:37	15° \mathring{O}	
evening set	11099 Jul 20 14:35	22° \mathring{O} 00'39	
conjunction	11099 Aug 06 14:11	24° \mathring{O} 03'58	-1°23'48
minimum elong	11099 Aug 06 14:13	24° \mathring{O} 03'58	1°24'14
max. Earth dist.	11099 Aug 06 23:35	24° \mathring{O} 06'49	10.71277 AU
morning rise	11099 Aug 23 16:51	26° \mathring{O} 08'08	
	11099 Sep 27 20:45	0° \mathring{M}	
retrograde	11099 Dec 05 21:20	3° \mathring{M} 39'39	
opposition	11100 Feb 14 00:01	0° \mathring{M} 16'17	-1°32'21
min. Earth dist.	11100 Feb 13 16:01	0° \mathring{M} 17'48	8.69972 AU
	11100 Feb 17 13:02	30° \mathring{R} \mathring{O}	
direct	11100 Apr 23 14:15	26° \mathring{O} 56'04	
	11100 Jun 23 23:31	0° \mathring{M}	
evening set	11100 Aug 02 00:45	4° \mathring{M} 13'46	
conjunction	11100 Aug 19 03:13	6° \mathring{M} 18'06	-1°05'38
minimum elong	11100 Aug 19 03:15	6° \mathring{M} 18'06	1°05'57
max. Earth dist.	11100 Aug 19 13:05	6° \mathring{M} 21'06	10.68378 AU
morning rise	11100 Sep 05 08:53	8° \mathring{M} 23'22	
retrograde	11100 Dec 18 19:26	15° \mathring{M} 57'10	
opposition	11101 Feb 26 18:51	12° \mathring{M} 33'06	-1°07'57
min. Earth dist.	11101 Feb 26 10:37	12° \mathring{M} 34'41	8.66710 AU
direct	11101 May 06 04:15	9° \mathring{M} 12'29	
evening set	11101 Aug 14 14:01	16° \mathring{M} 31'38	
conjunction	11101 Aug 31 19:30	18° \mathring{M} 37'07	-0°44'21
minimum elong	11101 Aug 31 19:32	18° \mathring{M} 37'08	0°44'32
max. Earth dist.	11101 Sep 01 05:27	18° \mathring{M} 40'09	10.64847 AU
morning rise	11101 Sep 18 04:13	20° \mathring{M} 43'36	
retrograde	11101 Dec 31 20:38	28° \mathring{M} 19'50	