

opposition	9600 Feb 23 00:24	6° \mathbb{M} 47'19	-0°54'58	evening set	9605 Oct 16 02:30	16° \mathbb{M} 17'23	
min. Earth dist.	9600 Feb 22 18:32	6° \mathbb{M} 48'28	8.53470 AU				
direct	9600 Apr 30 20:49	3° \mathbb{M} 25'13		conjunction	9605 Nov 02 22:46	18° \mathbb{M} 31'22	1°28'32
evening set	9600 Aug 09 14:46	10° \mathbb{M} 53'01		minimum elong	9605 Nov 02 22:43	18° \mathbb{M} 31'21	1°28'47
				max. Earth dist.	9605 Nov 02 21:16	18° \mathbb{M} 30'54	10.32084 AU
conjunction	9600 Aug 27 01:33	13° \mathbb{M} 01'47	-0°32'27	morning rise	9605 Nov 20 19:28	20° \mathbb{M} 45'33	
minimum elong	9600 Aug 27 01:34	13° \mathbb{M} 01'47	0°32'35	retrograde	9606 Mar 04 23:42	28° \mathbb{M} 39'23	
max. Earth dist.	9600 Aug 27 08:47	13° \mathbb{M} 04'01	10.50902 AU	opposition	9606 May 11 14:13	25° \mathbb{M} 13'21	2°00'06
morning rise	9600 Sep 13 15:46	15° \mathbb{M} 11'37		min. Earth dist.	9606 May 11 15:42	25° \mathbb{M} 13'03	8.31466 AU
retrograde	9600 Dec 27 21:25	22° \mathbb{M} 58'01		direct	9606 Jul 18 06:16	21° \mathbb{M} 47'00	
opposition	9601 Mar 07 02:01	19° \mathbb{M} 31'49	-0°24'07	evening set	9606 Oct 30 06:37	29° \mathbb{M} 40'12	
min. Earth dist.	9601 Mar 06 20:23	19° \mathbb{M} 32'56	8.48370 AU		9606 Nov 01 22:34	0° \mathbb{M}	
direct	9601 May 13 16:50	16° \mathbb{M} 09'03					
evening set	9601 Aug 22 20:49	23° \mathbb{M} 41'02		conjunction	9606 Nov 17 02:46	1° \mathbb{M} 54'21	1°43'41
				minimum elong	9606 Nov 17 02:44	1° \mathbb{M} 54'21	1°43'59
conjunction	9601 Sep 09 10:46	25° \mathbb{M} 51'19	-0°06'43	max. Earth dist.	9606 Nov 16 23:28	1° \mathbb{M} 53'19	10.30892 AU
minimum elong	9601 Sep 09 10:46	25° \mathbb{M} 51'19	0°06'46	morning rise	9606 Dec 04 22:20	4° \mathbb{M} 08'25	
behind sun begin	9601 Sep 09 04:03	25° \mathbb{M} 49'15		retrograde	9607 Mar 18 16:12	12° \mathbb{M} 01'19	
behind sun end	9601 Sep 09 17:30	25° \mathbb{M} 53'23		opposition	9607 May 25 01:28	8° \mathbb{M} 35'45	2°15'31
max. Earth dist.	9601 Sep 09 16:59	25° \mathbb{M} 53'13	10.45917 AU	min. Earth dist.	9607 May 25 04:29	8° \mathbb{M} 35'08	8.30796 AU
morning rise	9601 Sep 27 03:49	28° \mathbb{M} 02'36		direct	9607 Jul 31 21:44	5° \mathbb{M} 08'53	
	9601 Oct 13 16:52	0° \mathbb{M}		evening set	9607 Nov 13 11:52	13° \mathbb{M} 04'39	
asc. node	9601 Dec 14 13:37	5° \mathbb{M} 14'47					
retrograde	9602 Jan 10 09:42	5° \mathbb{M} 51'49		conjunction	9607 Dec 01 07:18	15° \mathbb{M} 18'44	1°53'13
opposition	9602 Mar 20 05:33	2° \mathbb{M} 25'21	0°08'18	minimum elong	9607 Dec 01 07:17	15° \mathbb{M} 18'43	1°53'33
min. Earth dist.	9602 Mar 20 00:59	2° \mathbb{M} 26'16	8.43547 AU	max. Earth dist.	9607 Dec 01 01:52	15° \mathbb{M} 17'00	10.30706 AU
	9602 Apr 23 06:38	30° \mathbb{R} \mathbb{M}		morning rise	9607 Dec 19 01:20	17° \mathbb{M} 32'26	
direct	9602 May 26 16:37	29° \mathbb{M} 01'53		retrograde	9608 Mar 31 08:38	25° \mathbb{M} 23'33	
	9602 Jun 28 18:21	0° \mathbb{M}		opposition	9608 Jun 06 13:11	21° \mathbb{M} 58'35	2°23'36
evening set	9602 Sep 05 08:46	6° \mathbb{M} 38'26		min. Earth dist.	9608 Jun 06 17:56	21° \mathbb{M} 57'38	8.31163 AU
				direct	9608 Aug 13 14:38	18° \mathbb{M} 31'21	
conjunction	9602 Sep 23 01:16	8° \mathbb{M} 50'04	0°19'44	evening set	9608 Nov 26 16:38	26° \mathbb{M} 28'41	
minimum elong	9602 Sep 23 01:15	8° \mathbb{M} 50'03	0°19'46				
max. Earth dist.	9602 Sep 23 05:28	8° \mathbb{M} 51'22	10.41329 AU	conjunction	9608 Dec 14 10:53	28° \mathbb{M} 42'23	1°56'37
morning rise	9602 Oct 10 20:32	11° \mathbb{M} 02'33		minimum elong	9608 Dec 14 10:53	28° \mathbb{M} 42'23	1°56'59
retrograde	9603 Jan 23 23:32	18° \mathbb{M} 54'06		max. Earth dist.	9608 Dec 14 03:26	28° \mathbb{M} 40'02	10.31619 AU
opposition	9603 Apr 02 11:18	15° \mathbb{M} 27'33	0°40'40		9608 Dec 24 17:06	0° \mathbb{M}	
min. Earth dist.	9603 Apr 02 08:26	15° \mathbb{M} 28'07	8.39265 AU	morning rise	9609 Jan 01 03:07	0° \mathbb{M} 55'31	
direct	9603 Jun 08 20:53	12° \mathbb{M} 03'19		retrograde	9609 Apr 13 21:49	8° \mathbb{M} 44'00	
evening set	9603 Sep 19 02:07	19° \mathbb{M} 44'32		opposition	9609 Jun 20 01:12	5° \mathbb{M} 19'44	2°23'54
				min. Earth dist.	9609 Jun 20 07:28	5° \mathbb{M} 18'28	8.32649 AU
conjunction	9603 Oct 06 20:34	21° \mathbb{M} 57'16	0°45'18	direct	9609 Aug 27 10:09	1° \mathbb{M} 52'19	
minimum elong	9603 Oct 06 20:33	21° \mathbb{M} 57'16	0°45'25	evening set	9609 Dec 10 19:10	9° \mathbb{M} 49'52	
max. Earth dist.	9603 Oct 06 22:39	21° \mathbb{M} 57'56	10.37382 AU				
morning rise	9603 Oct 24 17:17	24° \mathbb{M} 10'41		conjunction	9609 Dec 28 11:55	12° \mathbb{M} 02'55	1°53'44
	9603 Dec 19 01:44	0° \mathbb{M}		minimum elong	9609 Dec 28 11:56	12° \mathbb{M} 02'56	1°54'05
retrograde	9604 Feb 06 15:17	2° \mathbb{M} 03'53		max. Earth dist.	9609 Dec 28 03:05	12° \mathbb{M} 00'08	10.33675 AU
	9604 Mar 28 02:26	30° \mathbb{R} \mathbb{M}		morning rise	9610 Jan 15 02:11	14° \mathbb{M} 15'15	
opposition	9604 Apr 14 18:54	28° \mathbb{M} 37'22	1°11'13	retrograde	9610 Apr 27 07:52	22° \mathbb{M} 00'23	
min. Earth dist.	9604 Apr 14 17:48	28° \mathbb{M} 37'35	8.35736 AU	opposition	9610 Jul 03 12:46	18° \mathbb{M} 36'49	2°16'29
direct	9604 Jun 21 04:23	25° \mathbb{M} 12'22		min. Earth dist.	9610 Jul 03 19:32	18° \mathbb{M} 35'28	8.35243 AU
	9604 Sep 06 15:58	0° \mathbb{M}		direct	9610 Sep 10 06:10	15° \mathbb{M} 09'26	
evening set	9604 Oct 02 00:29	2° \mathbb{M} 58'07		evening set	9610 Dec 24 18:19	23° \mathbb{M} 05'48	
conjunction	9604 Oct 19 20:12	5° \mathbb{M} 11'40	1°08'41	conjunction	9611 Jan 11 09:26	25° \mathbb{M} 18'02	1°44'49
minimum elong	9604 Oct 19 20:10	5° \mathbb{M} 11'39	1°08'52	minimum elong	9611 Jan 11 09:28	25° \mathbb{M} 18'02	1°45'09
max. Earth dist.	9604 Oct 19 20:16	5° \mathbb{M} 11'41	10.34259 AU	max. Earth dist.	9611 Jan 11 00:25	25° \mathbb{M} 15'11	10.36809 AU
morning rise	9604 Nov 06 17:22	7° \mathbb{M} 25'39		morning rise	9611 Jan 28 21:38	27° \mathbb{M} 29'22	
	9605 Jan 31 04:18	15° \mathbb{M}			9611 Feb 19 02:01	0° \mathbb{M}	
retrograde	9605 Feb 19 07:27	15° \mathbb{M} 19'35		retrograde	9611 May 10 15:41	5° \mathbb{M} 10'35	
	9605 Mar 10 11:53	15° \mathbb{R} \mathbb{M}		opposition	9611 Jul 16 23:05	1° \mathbb{M} 47'42	2°01'54
opposition	9605 Apr 28 03:53	11° \mathbb{M} 53'15	1°38'13	min. Earth dist.	9611 Jul 17 05:36	1° \mathbb{M} 46'24	8.38828 AU
min. Earth dist.	9605 Apr 28 04:16	11° \mathbb{M} 53'11	8.33114 AU		9611 Aug 09 18:20	30° \mathbb{R} \mathbb{M}	
direct	9605 Jul 04 15:53	8° \mathbb{M} 27'32		direct	9611 Sep 24 00:17	28° \mathbb{M} 20'30	
	9605 Oct 05 11:23	15° \mathbb{M}			9611 Nov 07 12:37	0° \mathbb{M}	






























































evening set	9612 Jan 07 12:59	6°≈14'28		opposition	9617 Oct 01 22:05	17°Υ46'42 -0°46'00	
				min. Earth dist.	9617 Oct 01 22:42	17°Υ46'35 8.68486 AU	
conjunction	9612 Jan 25 02:22	8°≈25'42 1°30'29		direct	9617 Dec 11 04:33	14°Υ23'35	
minimum elong	9612 Jan 25 02:24	8°≈25'43 1°30'47		evening set	9618 Mar 24 13:20	21°Υ51'59	
max. Earth dist.	9612 Jan 24 18:00	8°≈23'04 10.40854 AU					
morning rise	9612 Feb 11 12:20	10°≈35'55		conjunction	9618 Apr 10 12:18	23°Υ55'29 -0°49'06	
	9612 Mar 21 22:12	15°≈		minimum elong	9618 Apr 10 12:16	23°Υ55'28 0°49'13	
retrograde	9612 May 22 20:58	18°≈12'55		max. Earth dist.	9618 Apr 10 12:03	23°Υ55'24 10.70568 AU	
	9612 Jul 27 08:40	15°≈		morning rise	9618 Apr 27 09:12	25°Υ58'25	
opposition	9612 Jul 29 08:04	14°≈50'39 1°41'09			9618 Jun 03 04:53	0°♄	
min. Earth dist.	9612 Jul 29 13:56	14°≈49'30 8.43205 AU		retrograde	9618 Aug 06 12:06	3°♄17'53	
direct	9612 Oct 06 16:30	11°≈23'52		opposition	9618 Oct 14 18:56	29°Υ57'40 -1°13'49	
	9612 Dec 13 05:53	15°≈			9618 Oct 14 06:35	30°♄	
evening set	9613 Jan 20 02:25	19°≈14'24		min. Earth dist.	9618 Oct 14 18:16	29°Υ57'47 8.72496 AU	
				direct	9618 Dec 23 23:16	26°Υ35'25	
conjunction	9613 Feb 06 13:44	21°≈24'27 1°11'39			9619 Feb 28 05:49	0°♄	
minimum elong	9613 Feb 06 13:47	21°≈24'27 1°11'53		evening set	9619 Apr 05 21:43	4°♄00'04	
max. Earth dist.	9613 Feb 06 06:33	21°≈22'12 10.45579 AU					
morning rise	9613 Feb 23 21:23	23°≈33'26		conjunction	9619 Apr 22 18:23	6°♄02'31 -1°10'24	
	9613 Apr 30 12:22	0°♄		minimum elong	9619 Apr 22 18:21	6°♄02'30 1°10'35	
retrograde	9613 Jun 04 22:16	1°♄06'14		max. Earth dist.	9619 Apr 22 19:23	6°♄02'49 10.74149 AU	
	9613 Jul 10 23:39	30°≈		morning rise	9619 May 09 13:44	8°♄04'36	
opposition	9613 Aug 11 15:12	27°≈44'33 1°15'31			9619 Jul 28 09:34	15°♄	
min. Earth dist.	9613 Aug 11 20:37	27°≈43'29 8.48146 AU		retrograde	9619 Aug 18 23:30	15°♄23'41	
direct	9613 Oct 20 06:21	24°≈18'17			9619 Sep 09 19:18	15°♄	
	9614 Jan 15 19:21	0°♄		opposition	9619 Oct 27 14:20	12°♄03'27 -1°38'08	
evening set	9614 Feb 02 10:18	2°♄04'41		min. Earth dist.	9619 Oct 27 12:49	12°♄03'44 8.75671 AU	
				direct	9620 Jan 05 17:20	8°♄41'59	
conjunction	9614 Feb 19 19:19	4°♄13'25 0°49'26			9620 Apr 08 02:43	15°♄	
minimum elong	9614 Feb 19 19:21	4°♄13'26 0°49'36		evening set	9620 Apr 17 03:22	16°♄03'29	
max. Earth dist.	9614 Feb 19 12:56	4°♄11'27 10.50739 AU					
morning rise	9614 Mar 09 00:43	6°♄21'08		conjunction	9620 May 03 22:08	18°♄05'06 -1°28'28	
retrograde	9614 Jun 17 20:39	13°♄49'59		minimum elong	9620 May 03 22:06	18°♄05'05 1°28'43	
opposition	9614 Aug 24 20:10	10°♄28'48 0°46'27		max. Earth dist.	9620 May 04 00:03	18°♄05'41 10.76826 AU	
min. Earth dist.	9614 Aug 25 01:22	10°♄27'47 8.53405 AU		morning rise	9620 May 20 16:30	20°♄06'34	
direct	9614 Nov 02 16:40	7°♄03'10		retrograde	9620 Aug 30 11:52	27°♄26'03	
evening set	9615 Feb 15 12:37	14°♄45'01		opposition	9620 Nov 08 08:45	24°♄05'40 -1°58'00	
				min. Earth dist.	9620 Nov 08 06:06	24°♄06'10 8.77887 AU	
conjunction	9615 Mar 04 19:05	16°♄52'25 0°25'02		direct	9621 Jan 17 08:57	20°♄44'53	
minimum elong	9615 Mar 04 19:06	16°♄52'25 0°25'07		evening set	9621 Apr 29 06:53	28°♄03'48	
max. Earth dist.	9615 Mar 04 13:11	16°♄50'35 10.56073 AU			9621 May 15 08:26	0°♄	
morning rise	9615 Mar 21 22:21	18°♄58'50					
retrograde	9615 Jun 30 15:16	26°♄24'13		conjunction	9621 May 16 00:30	0°♄04'53 -1°42'35	
opposition	9615 Sep 06 22:57	23°♄03'26 0°15'30		minimum elong	9621 May 16 00:28	0°♄04'52 1°42'53	
min. Earth dist.	9615 Sep 07 03:19	23°♄02'35 8.58714 AU		max. Earth dist.	9621 May 16 04:13	0°♄06'01 10.78495 AU	
direct	9615 Nov 15 23:31	19°♄38'34		morning rise	9621 Jun 01 18:23	2°♄06'02	
evening set	9616 Feb 28 09:35	27°♄15'45		retrograde	9621 Sep 12 00:26	9°♄26'36	
desc. node	9616 Mar 11 13:26	28°♄44'48		opposition	9621 Nov 21 02:19	6°♄05'54 -2°12'38	
				min. Earth dist.	9621 Nov 20 21:50	6°♄06'45 8.79048 AU	
conjunction	9616 Mar 16 13:25	29°♄21'46 -0°00'21		direct	9622 Jan 29 21:54	2°♄45'42	
minimum elong	9616 Mar 16 13:25	29°♄21'46 0°00'19		evening set	9622 May 11 09:30	10°♄02'45	
behind sun begin	9616 Mar 16 06:21	29°♄19'37					
behind sun end	9616 Mar 16 20:29	29°♄23'55		conjunction	9622 May 28 02:43	12°♄03'35 -1°52'12	
max. Earth dist.	9616 Mar 16 08:41	29°♄20'21 10.61315 AU		minimum elong	9622 May 28 02:42	12°♄03'35 1°52'33	
	9616 Mar 21 17:32	0°♄		max. Earth dist.	9622 May 28 08:33	12°♄05'21 10.79083 AU	
morning rise	9616 Apr 02 14:29	1°♄26'56		morning rise	9622 Jun 13 20:40	14°♄04'41	
retrograde	9616 Jul 12 06:29	8°♄49'34		retrograde	9622 Sep 24 14:28	21°♄26'57	
opposition	9616 Sep 18 23:31	5°♄29'03 -0°15'47		opposition	9622 Dec 03 19:19	18°♄05'52 -2°21'29	
min. Earth dist.	9616 Sep 19 02:11	5°♄28'33 8.63819 AU		min. Earth dist.	9622 Dec 03 13:22	18°♄06'59 8.79105 AU	
direct	9616 Nov 28 04:32	2°♄05'03		direct	9623 Feb 11 10:08	14°♄46'04	
evening set	9617 Mar 12 01:38	9°♄37'42		evening set	9623 May 23 12:04	22°♄01'56	
conjunction	9617 Mar 29 02:58	11°♄42'23 -0°25'25		conjunction	9623 Jun 09 05:30	24°♄02'52 -1°56'56	
minimum elong	9617 Mar 29 02:57	11°♄42'23 0°25'28		minimum elong	9623 Jun 09 05:29	24°♄02'52 1°57'17	
max. Earth dist.	9617 Mar 29 00:26	11°♄41'36 10.66223 AU		max. Earth dist.	9623 Jun 09 12:39	24°♄05'03 10.78576 AU	
morning rise	9617 Apr 15 01:50	13°♄46'21		morning rise	9623 Jun 26 00:21	26°♄04'15	
retrograde	9617 Jul 24 21:59	21°♄07'02			9623 Aug 01 01:36	0°♄	

retrograde	9623 Oct 07 06:48	3°♊28'43	retrograde	9629 Dec 22 05:39	17°♐28'10
opposition	9623 Dec 16 12:33	0°♊07'09 -2°24'12	opposition	9630 Mar 01 13:36	14°♐02'37 -0°38'08
min. Earth dist.	9623 Dec 16 05:58	0°♊08'24 8.78064 AU	min. Earth dist.	9630 Mar 01 09:34	14°♐03'24 8.52751 AU
	9623 Dec 18 02:22	30°♐II	direct	9630 May 08 06:22	10°♐40'30
direct	9624 Feb 23 20:01	26°♐II47'35	evening set	9630 Aug 17 05:53	18°♐09'28
	9624 Apr 27 06:35	0°♊			
evening set	9624 Jun 03 15:18	4°♊02'58	conjunction	9630 Sep 03 18:08	20°♐18'45 -0°18'22
			minimum elong	9630 Sep 03 18:09	20°♐18'46 0°18'28
conjunction	9624 Jun 20 09:41	6°♊04'19 -1°56'33	max. Earth dist.	9630 Sep 03 22:14	20°♐20'01 10.49958 AU
minimum elong	9624 Jun 20 09:41	6°♊04'19 1°56'54	morning rise	9630 Sep 21 09:56	22°♐29'07
max. Earth dist.	9624 Jun 20 16:56	6°♊06'31 10.77002 AU		9630 Dec 17 23:40	0°♊
morning rise	9624 Jul 07 06:22	8°♊06'20	retrograde	9631 Jan 04 14:15	0°♊16'04
retrograde	9624 Oct 18 23:18	15°♊33'25		9631 Jan 22 06:51	30°♐♐
opposition	9624 Dec 28 06:08	12°♊11'16 -2°20'35	opposition	9631 Mar 14 15:36	26°♐49'58 -0°06'22
min. Earth dist.	9624 Dec 27 23:42	12°♊12'29 8.75962 AU	min. Earth dist.	9631 Mar 14 12:36	26°♐50'33 8.47201 AU
direct	9625 Mar 07 06:16	8°♊51'44	direct	9631 May 21 05:39	23°♐26'57
evening set	9625 Jun 15 20:20	16°♊07'25	asc. node	9631 May 27 06:59	23°♐28'57
				9631 Aug 22 05:04	0°♊
conjunction	9625 Jul 02 16:34	18°♊09'31 -1°51'01	evening set	9631 Aug 30 14:11	1°♊00'27
minimum elong	9625 Jul 02 16:35	18°♊09'32 1°51'21			
max. Earth dist.	9625 Jul 03 00:04	18°♊11'48 10.74400 AU	conjunction	9631 Sep 17 05:29	3°♊11'15 0°07'53
morning rise	9625 Jul 19 15:42	20°♊12'27	minimum elong	9631 Sep 17 05:28	3°♊11'15 0°07'52
retrograde	9625 Oct 31 17:48	27°♊42'28	behind sun begin	9631 Sep 16 23:00	3°♊09'16
opposition	9626 Jan 10 00:04	24°♊19'40 -2°10'42	behind sun end	9631 Sep 17 11:57	3°♊13'15
min. Earth dist.	9626 Jan 09 17:35	24°♊20'54 8.72842 AU	max. Earth dist.	9631 Sep 17 08:59	3°♊12'19 10.44569 AU
direct	9626 Mar 19 18:47	20°♊59'57	morning rise	9631 Oct 04 23:45	5°♊22'59
evening set	9626 Jun 28 03:55	28°♊16'42	retrograde	9632 Jan 18 02:09	13°♊12'44
	9626 Jul 12 09:38	0°♋	opposition	9632 Mar 26 19:32	9°♊46'12 0°26'08
			min. Earth dist.	9632 Mar 26 17:06	9°♊46'41 8.42039 AU
conjunction	9626 Jul 15 02:49	0°♋19'53 -1°40'29	direct	9632 Jun 02 07:42	6°♊22'16
minimum elong	9626 Jul 15 02:51	0°♋19'54 1°40'48	evening set	9632 Sep 12 04:17	14°♊00'34
max. Earth dist.	9626 Jul 15 10:47	0°♋22'19 10.70812 AU			
morning rise	9626 Aug 01 04:51	2°♋24'00	conjunction	9632 Sep 29 22:00	16°♊12'41 0°33'53
retrograde	9626 Nov 13 16:34	9°♋57'16	minimum elong	9632 Sep 29 21:59	16°♊12'41 0°33'57
opposition	9627 Jan 22 19:04	6°♋33'45 -1°54'52	max. Earth dist.	9632 Sep 30 00:21	16°♋13'25 10.39678 AU
min. Earth dist.	9627 Jan 22 12:23	6°♋35'02 8.68754 AU	morning rise	9632 Oct 17 17:59	18°♋25'33
direct	9627 Apr 01 06:39	3°♋13'41	retrograde	9633 Jan 30 17:42	26°♋17'30
evening set	9627 Jul 10 14:59	10°♋32'19	opposition	9633 Apr 09 01:30	22°♋50'43 0°57'39
			min. Earth dist.	9633 Apr 09 00:05	22°♋51'00 8.37510 AU
conjunction	9627 Jul 27 17:00	12°♋36'50 -1°25'17	direct	9633 Jun 15 11:34	19°♋25'51
minimum elong	9627 Jul 27 17:03	12°♋36'51 1°25'34	evening set	9633 Sep 25 23:44	27°♋09'01
max. Earth dist.	9627 Jul 28 01:03	12°♋39'18 10.66315 AU			
morning rise	9627 Aug 13 22:22	14°♋42'24	conjunction	9633 Oct 13 19:00	29°♋22'09 0°58'23
	9627 Aug 16 09:26	15°♋	minimum elong	9633 Oct 13 18:57	29°♋22'08 0°58'32
retrograde	9627 Nov 26 17:55	22°♋19'09	max. Earth dist.	9633 Oct 13 19:26	29°♋22'17 10.35524 AU
opposition	9628 Feb 04 15:31	18°♋54'55 -1°33'35		9633 Oct 18 19:37	0°♌
min. Earth dist.	9628 Feb 04 09:00	18°♋56'11 8.63842 AU	morning rise	9633 Oct 31 15:49	1°♌35'50
direct	9628 Apr 12 20:01	15°♋34'21	retrograde	9634 Feb 13 09:40	9°♌29'14
evening set	9628 Jul 22 06:38	22°♋55'44	opposition	9634 Apr 22 09:19	6°♌02'25 1°26'26
			min. Earth dist.	9634 Apr 22 09:28	6°♌02'24 8.33841 AU
conjunction	9628 Aug 08 12:03	25°♋01'47 -1°05'59	direct	9634 Jun 28 20:21	2°♌36'39
minimum elong	9628 Aug 08 12:05	25°♋01'48 1°06'13	evening set	9634 Oct 09 23:33	10°♌24'27
max. Earth dist.	9628 Aug 08 18:54	25°♋03'53 10.61133 AU			
morning rise	9628 Aug 25 21:05	27°♋08'56	conjunction	9634 Oct 27 19:35	12°♌38'16 1°19'58
	9628 Sep 19 19:14	0°♎	minimum elong	9634 Oct 27 19:32	12°♌38'15 1°20'12
retrograde	9628 Dec 08 22:20	4°♎49'15	max. Earth dist.	9634 Oct 27 17:36	12°♌37'39 10.32328 AU
opposition	9629 Feb 16 13:34	1°♎24'20 -1°07'39	morning rise	9634 Nov 14 16:31	14°♌52'25
min. Earth dist.	9629 Feb 16 08:11	1°♎25'23 8.58401 AU		9634 Nov 15 17:10	15°♌
	9629 Mar 07 04:48	30°♎♎	retrograde	9635 Feb 27 01:25	22°♌46'25
direct	9629 Apr 25 11:45	28°♎03'04	opposition	9635 May 05 18:47	19°♌19'47 1°50'49
	9629 Jun 12 07:51	0°♎	min. Earth dist.	9635 May 05 20:52	19°♌19'21 8.31229 AU
evening set	9629 Aug 04 03:30	5°♎27'56	direct	9635 Jul 12 08:53	15°♌53'13
			evening set	9635 Oct 24 02:28	23°♌45'02
conjunction	9629 Aug 21 12:24	7°♎35'37 -0°43'21			
minimum elong	9629 Aug 21 12:26	7°♎35'38 0°43'31	conjunction	9635 Nov 10 22:39	25°♌59'14 1°37'23
max. Earth dist.	9629 Aug 21 17:40	7°♎37'15 10.55579 AU	minimum elong	9635 Nov 10 22:36	25°♌59'13 1°37'40
morning rise	9629 Sep 08 01:03	9°♎44'25	max. Earth dist.	9635 Nov 10 18:27	25°♌57'55 10.30259 AU

morning rise	9635 Nov 28 18:59	28° \mathbb{M} 13'30	max. Earth dist.	9642 Jan 31 09:38	15° \approx 38'48	10.43130 AU
	9635 Dec 13 12:01	0° \mathbb{A}	morning rise	9642 Feb 18 02:21	17° \approx 50'54	
retrograde	9636 Mar 11 17:27	6° \mathbb{A} 07'10	retrograde	9642 May 30 06:19	25° \approx 25'52	
opposition	9636 May 18 05:28	2° \mathbb{A} 40'52 2°09'21	opposition	9642 Aug 05 21:07	22° \approx 04'02	1°27'50
min. Earth dist.	9636 May 18 08:59	2° \mathbb{A} 40'09 8.29797 AU	min. Earth dist.	9642 Aug 06 02:50	22° \approx 02'54	8.45766 AU
	9636 Jun 25 08:11	30° $\mathbb{R}\mathbb{M}$	direct	9642 Oct 14 09:09	18° \approx 37'39	
direct	9636 Jul 24 23:51	29° \mathbb{M} 13'39	evening set	9643 Jan 27 16:03	26° \approx 26'18	
	9636 Aug 23 12:08	0° \mathbb{A}				
evening set	9636 Nov 06 07:14	7° \mathbb{A} 08'38	conjunction	9643 Feb 14 02:08	28° \approx 35'41	1°00'00
			minimum elong	9643 Feb 14 02:10	28° \approx 35'42	1°00'12
conjunction	9636 Nov 24 02:59	9° \mathbb{A} 22'53 1°49'35	max. Earth dist.	9643 Feb 13 19:13	28° \approx 33'32	10.48424 AU
minimum elong	9636 Nov 24 02:57	9° \mathbb{A} 22'53 1°49'55		9643 Feb 25 09:20	0° \mathbb{H}	
max. Earth dist.	9636 Nov 23 21:23	9° \mathbb{A} 21'07 10.29418 AU	morning rise	9643 Mar 03 08:48	0° \mathbb{H} 44'03	
morning rise	9636 Dec 11 22:00	11° \mathbb{A} 36'56	retrograde	9643 Jun 12 06:38	8° \mathbb{H} 14'56	
retrograde	9637 Mar 25 09:17	19° \mathbb{A} 29'16	opposition	9643 Aug 19 03:13	4° \mathbb{H} 53'47	1°00'07
opposition	9637 May 31 16:50	16° \mathbb{A} 03'28 2°20'54	min. Earth dist.	9643 Aug 19 07:41	4° \mathbb{H} 52'54	8.51204 AU
min. Earth dist.	9637 May 31 21:05	16° \mathbb{A} 02'37 8.29619 AU	direct	9643 Oct 27 21:34	1° \mathbb{H} 28'10	
direct	9637 Aug 07 16:50	12° \mathbb{A} 35'51	evening set	9644 Feb 09 21:27	9° \mathbb{H} 12'25	
evening set	9637 Nov 20 12:05	20° \mathbb{A} 32'51				
			conjunction	9644 Feb 27 05:13	11° \mathbb{H} 20'28	0°36'25
conjunction	9637 Dec 08 06:59	22° \mathbb{A} 46'52 1°55'51	minimum elong	9644 Feb 27 05:15	11° \mathbb{H} 20'28	0°36'33
minimum elong	9637 Dec 08 06:58	22° \mathbb{A} 46'52 1°56'12	max. Earth dist.	9644 Feb 27 00:05	11° \mathbb{H} 18'52	10.53996 AU
max. Earth dist.	9637 Dec 08 00:41	22° \mathbb{A} 44'52 10.29863 AU	morning rise	9644 Mar 15 09:30	13° \mathbb{H} 27'30	
morning rise	9637 Dec 26 00:12	25° \mathbb{A} 00'25	retrograde	9644 Jun 24 04:43	20° \mathbb{H} 54'38	
	9638 Feb 09 03:30	0° \mathbb{B}	opposition	9644 Aug 31 07:29	17° \mathbb{H} 34'03	0°29'50
retrograde	9638 Apr 07 23:08	2° \mathbb{B} 50'29	min. Earth dist.	9644 Aug 31 10:54	17° \mathbb{H} 33'23	8.56785 AU
	9638 Jun 06 23:49	30° $\mathbb{R}\mathbb{A}$	direct	9644 Nov 09 05:40	14° \mathbb{H} 09'18	
opposition	9638 Jun 14 04:37	29° \mathbb{A} 25'21 2°24'48	evening set	9645 Feb 21 21:18	21° \mathbb{H} 48'48	
min. Earth dist.	9638 Jun 14 09:11	29° \mathbb{A} 24'26 8.30713 AU				
direct	9638 Aug 21 11:36	25° \mathbb{A} 57'32	conjunction	9645 Mar 11 02:32	23° \mathbb{H} 55'27	0°11'22
	9638 Oct 31 11:59	0° \mathbb{B}	minimum elong	9645 Mar 11 02:32	23° \mathbb{H} 55'27	0°11'26
evening set	9638 Dec 04 15:27	3° \mathbb{B} 55'17	behind sun begin	9645 Mar 10 21:22	23° \mathbb{H} 53'52	
			behind sun end	9645 Mar 11 07:42	23° \mathbb{H} 57'02	
conjunction	9638 Dec 22 09:08	6° \mathbb{B} 08'47 1°55'51	max. Earth dist.	9645 Mar 10 22:48	23° \mathbb{H} 54'19	10.59551 AU
minimum elong	9638 Dec 22 09:09	6° \mathbb{B} 08'47 1°56'13	morning rise	9645 Mar 28 04:28	26° \mathbb{H} 01'11	
max. Earth dist.	9638 Dec 22 02:32	6° \mathbb{B} 06'41 10.31581 AU		9645 May 03 01:41	0° \mathbb{Y}	
morning rise	9639 Jan 09 00:21	8° \mathbb{B} 21'35	retrograde	9645 Jul 06 22:27	3° \mathbb{Y} 25'09	
retrograde	9639 Apr 21 11:31	16° \mathbb{B} 08'37	desc. node	9645 Aug 26 15:09	1° \mathbb{Y} 24'32	
opposition	9639 Jun 27 16:14	12° \mathbb{B} 44'16 2°20'53	opposition	9645 Sep 13 09:36	0° \mathbb{Y} 04'58	-0°01'29
min. Earth dist.	9639 Jun 27 21:19	12° \mathbb{B} 43'14 8.33023 AU	min. Earth dist.	9645 Sep 13 12:23	0° \mathbb{Y} 04'26	8.62213 AU
direct	9639 Sep 04 05:57	9° \mathbb{B} 16'30		9645 Sep 14 11:30	30° $\mathbb{R}\mathbb{H}$	
evening set	9639 Dec 18 16:17	17° \mathbb{B} 13'41	direct	9645 Nov 22 11:26	26° \mathbb{H} 41'04	
				9646 Jan 26 16:14	0° \mathbb{Y}	
conjunction	9640 Jan 05 08:25	19° \mathbb{B} 26'25 1°49'39	evening set	9646 Mar 06 16:10	4° \mathbb{Y} 15'52	
minimum elong	9640 Jan 05 08:26	19° \mathbb{B} 26'26 1°50'00				
max. Earth dist.	9640 Jan 05 01:13	19° \mathbb{B} 24'09 10.34477 AU	conjunction	9646 Mar 23 18:41	6° \mathbb{Y} 21'08	-0°14'03
morning rise	9640 Jan 22 21:31	21° \mathbb{B} 38'18	minimum elong	9646 Mar 23 18:40	6° \mathbb{Y} 21'08	0°14'03
retrograde	9640 May 03 21:54	29° \mathbb{B} 21'36	behind sun begin	9646 Mar 23 15:04	6° \mathbb{Y} 20'02	
opposition	9640 Jul 10 03:05	25° \mathbb{B} 58'07 2°09'29	behind sun end	9646 Mar 23 22:16	6° \mathbb{Y} 22'13	
min. Earth dist.	9640 Jul 10 09:00	25° \mathbb{B} 56'56 8.36428 AU	max. Earth dist.	9646 Mar 23 15:34	6° \mathbb{Y} 20'11	10.64778 AU
direct	9640 Sep 16 23:17	22° \mathbb{B} 30'37	morning rise	9646 Apr 09 18:30	8° \mathbb{Y} 25'37	
	9640 Dec 28 00:15	0° \approx	retrograde	9646 Jul 19 14:05	15° \mathbb{Y} 47'08	
evening set	9640 Dec 31 13:14	0° \approx 26'00	opposition	9646 Sep 26 09:26	12° \mathbb{Y} 27'13	-0°32'22
			min. Earth dist.	9646 Sep 26 11:54	12° \mathbb{Y} 26'45	8.67167 AU
conjunction	9641 Jan 18 03:29	2° \approx 37'47 1°37'43	direct	9646 Dec 05 13:34	9° \mathbb{Y} 04'07	
minimum elong	9641 Jan 18 03:31	2° \approx 37'48 1°38'02	evening set	9647 Mar 19 06:26	16° \mathbb{Y} 34'32	
max. Earth dist.	9641 Jan 17 19:39	2° \approx 35'20 10.38396 AU				
morning rise	9641 Feb 04 14:30	4° \approx 48'37	conjunction	9647 Apr 05 06:21	18° \mathbb{Y} 38'32	-0°38'29
retrograde	9641 May 17 04:31	12° \approx 27'47	minimum elong	9647 Apr 05 06:19	18° \mathbb{Y} 38'31	0°38'34
opposition	9641 Jul 23 12:55	9° \approx 05'10 1°51'25	max. Earth dist.	9647 Apr 05 03:34	18° \mathbb{Y} 37'41	10.69353 AU
min. Earth dist.	9641 Jul 23 19:08	9° \approx 03'56 8.40752 AU	morning rise	9647 Apr 22 04:14	20° \mathbb{Y} 41'55	
direct	9641 Sep 30 16:38	5° \approx 38'09	retrograde	9647 Aug 01 03:44	28° \mathbb{Y} 01'53	
evening set	9642 Jan 14 05:14	13° \approx 30'36	opposition	9647 Oct 09 07:29	24° \mathbb{Y} 42'04	-1°01'25
	9642 Jan 26 05:39	15° \approx	min. Earth dist.	9647 Oct 09 08:51	24° \mathbb{Y} 41'49	8.71331 AU
conjunction	9642 Jan 31 17:26	15° \approx 41'15 1°20'49	direct	9647 Dec 18 12:16	21° \mathbb{Y} 19'48	
minimum elong	9642 Jan 31 17:29	15° \approx 41'16 1°21'05	evening set	9648 Mar 30 16:44	28° \mathbb{Y} 46'20	
				9648 Apr 09 20:55	0° \mathbb{B}	

conjunction	9648 Apr 16 14:21	0°849'14 -1°01'00	max. Earth dist.	9654 Jun 27 22:59	13°07'05 10.73127 AU
minimum elong	9648 Apr 16 14:19	0°849'13 1°01'09	morning rise	9654 Jul 14 13:27	15°07'35
max. Earth dist.	9648 Apr 16 13:10	0°848'53 10.73018 AU	retrograde	9654 Oct 26 12:19	22°37'23
morning rise	9648 May 03 10:27	2°851'43	opposition	9655 Jan 04 18:07	19°14'13 -2°15'52
retrograde	9648 Aug 12 16:44	10°811'08	min. Earth dist.	9655 Jan 04 11:27	19°15'29 8.71633 AU
opposition	9648 Oct 21 04:05	6°851'15 -1°27'29	direct	9655 Mar 14 15:52	15°53'56
min. Earth dist.	9648 Oct 21 03:43	6°851'19 8.74526 AU	evening set	9655 Jun 23 02:53	23°11'16
direct	9648 Dec 30 08:44	3°829'44			
evening set	9649 Apr 12 00:04	10°852'59	conjunction	9655 Jul 10 00:37	25°14'18 -1°45'41
			minimum elong	9655 Jul 10 00:39	25°14'18 1°46'01
conjunction	9649 Apr 28 19:48	12°855'01 -1°20'39	max. Earth dist.	9655 Jul 10 08:03	25°16'34 10.69683 AU
minimum elong	9649 Apr 28 19:46	12°855'01 1°20'52	morning rise	9655 Jul 27 01:23	27°18'13
max. Earth dist.	9649 Apr 28 20:42	12°855'18 10.75674 AU		9655 Aug 19 17:02	0°0
morning rise	9649 May 15 14:30	14°856'48	retrograde	9655 Nov 08 10:37	4°51'13
	9649 May 16 01:14	15°8	opposition	9656 Jan 17 13:28	1°27'20 -2°02'34
retrograde	9649 Aug 25 07:05	22°816'29	min. Earth dist.	9656 Jan 17 07:01	1°28'34 8.67774 AU
opposition	9649 Nov 02 23:28	18°856'22 -1°49'31		9656 Feb 06 04:20	30°46
min. Earth dist.	9649 Nov 02 21:36	18°856'43 8.76694 AU	direct	9656 Mar 26 02:37	28°06'44
direct	9650 Jan 12 00:50	15°835'26		9656 May 12 12:26	0°0
evening set	9650 Apr 24 05:13	22°855'59	evening set	9656 Jul 04 12:50	5°25'40
conjunction	9650 May 10 23:29	24°857'25 -1°36'39	conjunction	9656 Jul 21 13:26	7°29'56 -1°32'27
minimum elong	9650 May 10 23:27	24°857'25 1°36'57	minimum elong	9656 Jul 21 13:29	7°29'57 1°32'45
max. Earth dist.	9650 May 11 01:45	24°858'07 10.77281 AU	max. Earth dist.	9656 Jul 21 20:35	7°32'07 10.65503 AU
morning rise	9650 May 27 17:26	26°858'48	morning rise	9656 Aug 07 17:36	9°35'13
	9650 Jun 23 14:14	0°II		9656 Sep 29 01:00	15°0
retrograde	9650 Sep 06 20:00	4°II19'23	retrograde	9656 Nov 20 09:22	17°11'39
opposition	9650 Nov 15 18:05	0°II58'52 -2°06'39		9657 Jan 13 07:30	15°0
min. Earth dist.	9650 Nov 15 15:33	0°II59'21 8.77791 AU	opposition	9657 Jan 29 10:00	13°47'02 -1°43'31
	9650 Nov 28 23:07	30°8	min. Earth dist.	9657 Jan 29 03:57	13°48'12 8.63252 AU
direct	9651 Jan 24 14:45	27°838'23	direct	9657 Apr 07 17:19	10°26'00
	9651 Mar 19 20:08	0°II		9657 Jun 22 18:18	15°0
evening set	9651 May 06 08:57	4°II56'54	evening set	9657 Jul 17 02:58	17°47'19
conjunction	9651 May 23 02:14	6°II57'58 -1°48'23	conjunction	9657 Aug 03 06:59	19°53'02 -1°14'49
minimum elong	9651 May 23 02:12	6°II57'58 1°48'44	minimum elong	9657 Aug 03 07:01	19°53'02 1°15'04
max. Earth dist.	9651 May 23 05:08	6°II58'51 10.77811 AU	max. Earth dist.	9657 Aug 03 14:22	19°55'18 10.60752 AU
morning rise	9651 Jun 08 20:10	8°II59'14	morning rise	9657 Aug 20 14:38	21°59'49
retrograde	9651 Sep 19 08:58	16°II21'22	retrograde	9657 Dec 03 12:22	29°39'44
opposition	9651 Nov 28 12:11	13°II00'19 -2°18'13	opposition	9658 Feb 11 07:48	26°14'28 -1°19'25
min. Earth dist.	9651 Nov 28 08:53	13°II00'57 8.77805 AU	min. Earth dist.	9658 Feb 11 01:43	26°15'39 8.58261 AU
direct	9652 Feb 06 04:41	9°II40'05	direct	9658 Apr 20 09:43	22°52'53
evening set	9652 May 17 12:01	16°II57'13		9658 Jul 27 12:33	0°0
			evening set	9658 Jul 29 21:57	0°0 17'16
conjunction	9652 Jun 03 05:13	18°II58'17 -1°55'23	conjunction	9658 Aug 16 05:33	2°24'34 -0°53'28
minimum elong	9652 Jun 03 05:13	18°II58'17 1°55'44	minimum elong	9658 Aug 16 05:34	2°24'34 0°53'40
max. Earth dist.	9652 Jun 03 09:31	18°II59'35 10.77273 AU	max. Earth dist.	9658 Aug 16 13:09	2°26'55 10.55642 AU
morning rise	9652 Jun 19 23:49	20°II59'44	morning rise	9658 Sep 02 16:39	4°32'57
retrograde	9652 Oct 01 00:05	28°II23'59	retrograde	9658 Dec 16 20:15	12°16'18
opposition	9652 Dec 10 05:59	25°II02'17 -2°23'45	opposition	9659 Feb 24 07:34	8°50'28 -0°51'14
min. Earth dist.	9652 Dec 10 01:22	25°II03'09 8.76754 AU	min. Earth dist.	9659 Feb 24 01:28	8°51'39 8.53038 AU
direct	9653 Feb 17 16:53	21°II42'10	direct	9659 May 03 02:43	5°28'16
evening set	9653 May 29 15:16	28°II58'36	evening set	9659 Aug 11 22:22	12°56'21
	9653 Jun 07 03:44	0°0			
conjunction	9653 Jun 15 09:20	1°00'00 -1°57'19	conjunction	9659 Aug 29 09:23	15°05'14 -0°29'19
minimum elong	9653 Jun 15 09:20	1°00'00 1°57'40	minimum elong	9659 Aug 29 09:25	15°05'14 0°29'27
max. Earth dist.	9653 Jun 15 15:37	1°01'54 10.75694 AU	max. Earth dist.	9659 Aug 29 16:19	15°07'22 10.50424 AU
morning rise	9653 Jul 02 05:13	3°01'58	morning rise	9659 Sep 15 23:49	17°15'11
retrograde	9653 Oct 13 16:38	10°028'48	retrograde	9659 Dec 30 05:33	25°01'48
opposition	9653 Dec 22 23:49	7°06'22 -2°22'59	opposition	9660 Mar 08 09:22	21°35'31 -0°20'11
min. Earth dist.	9653 Dec 22 17:41	7°07'31 8.74670 AU	min. Earth dist.	9660 Mar 08 04:02	21°36'34 8.47849 AU
direct	9654 Mar 02 04:29	3°046'14	direct	9660 May 14 23:45	18°12'37
evening set	9654 Jun 10 19:57	11°02'45	evening set	9660 Aug 24 04:51	25°44'58
conjunction	9654 Jun 27 15:32	13°04'48 -1°54'04	conjunction	9660 Sep 10 18:55	27°55'22 -0°03'31
minimum elong	9654 Jun 27 15:33	13°04'49 1°54'24	minimum elong	9660 Sep 10 18:56	27°55'23 0°03'34

behind sun begin	9660 Sep 10 11:46	27° \mathbb{M} 53'10		min. Earth dist.	9666 May 26 13:46	10° \mathbb{X} 42'58	8.30585 AU
behind sun end	9660 Sep 11 02:06	27° \mathbb{M} 57'35		direct	9666 Aug 02 06:13	7° \mathbb{X} 16'41	
max. Earth dist.	9660 Sep 11 00:04	27° \mathbb{M} 56'56	10.45365 AU	evening set	9666 Nov 14 22:20	15° \mathbb{X} 12'45	
	9660 Sep 27 14:03	0° \mathbb{L}					
morning rise	9660 Sep 28 12:15	0° \mathbb{L} 06'46		conjunction	9666 Dec 02 17:31	17° \mathbb{X} 26'47	1°53'47
asc. node	9660 Oct 30 18:01	3° \mathbb{L} 46'41		minimum elong	9666 Dec 02 17:30	17° \mathbb{X} 26'47	1°54'08
retrograde	9661 Jan 11 17:26	7° \mathbb{L} 56'13		max. Earth dist.	9666 Dec 02 11:32	17° \mathbb{X} 24'54	10.30591 AU
opposition	9661 Mar 21 13:07	4° \mathbb{L} 29'41	0°12'15	morning rise	9666 Dec 20 11:27	19° \mathbb{X} 40'29	
min. Earth dist.	9661 Mar 21 09:25	4° \mathbb{L} 30'25	8.42967 AU	retrograde	9667 Apr 02 17:26	27° \mathbb{X} 31'28	
direct	9661 May 28 00:25	1° \mathbb{L} 06'02		opposition	9667 Jun 08 22:22	24° \mathbb{X} 06'33	2°23'49
evening set	9661 Sep 06 17:16	8° \mathbb{L} 43'03		min. Earth dist.	9667 Jun 09 03:37	24° \mathbb{X} 05'30	8.31134 AU
				direct	9667 Aug 16 01:07	20° \mathbb{X} 39'16	
conjunction	9661 Sep 24 09:54	10° \mathbb{L} 54'48	0°22'52	evening set	9667 Nov 29 02:55	28° \mathbb{X} 36'44	
minimum elong	9661 Sep 24 09:53	10° \mathbb{L} 54'48	0°22'54		9667 Dec 10 05:22	0° \mathbb{Z}	
max. Earth dist.	9661 Sep 24 13:06	10° \mathbb{L} 55'48	10.40731 AU				
morning rise	9661 Oct 12 05:24	13° \mathbb{L} 07'24		conjunction	9667 Dec 16 20:59	0° \mathbb{Z} 50'23	1°56'24
retrograde	9662 Jan 25 07:53	20° \mathbb{L} 59'12		minimum elong	9667 Dec 16 20:59	0° \mathbb{Z} 50'23	1°56'46
opposition	9662 Apr 03 19:04	17° \mathbb{L} 32'33	0°44'26	max. Earth dist.	9667 Dec 16 12:57	0° \mathbb{Z} 47'51	10.31652 AU
min. Earth dist.	9662 Apr 03 16:54	17° \mathbb{L} 32'59	8.38652 AU	morning rise	9668 Jan 03 13:09	3° \mathbb{Z} 03'29	
direct	9662 Jun 10 04:29	14° \mathbb{L} 08'10		retrograde	9668 Apr 15 05:59	10° \mathbb{Z} 51'48	
evening set	9662 Sep 20 11:03	21° \mathbb{L} 49'55		opposition	9668 Jun 21 10:23	7° \mathbb{Z} 27'36	2°23'09
				min. Earth dist.	9668 Jun 21 16:45	7° \mathbb{Z} 26'19	8.32730 AU
conjunction	9662 Oct 08 05:39	24° \mathbb{L} 02'45	0°48'12	direct	9668 Aug 28 20:41	4° \mathbb{Z} 00'11	
minimum elong	9662 Oct 08 05:37	24° \mathbb{L} 02'45	0°48'19	evening set	9668 Dec 12 05:21	11° \mathbb{Z} 57'47	
max. Earth dist.	9662 Oct 08 07:33	24° \mathbb{L} 03'21	10.36764 AU				
morning rise	9662 Oct 26 02:23	26° \mathbb{L} 16'16		conjunction	9668 Dec 29 22:00	14° \mathbb{Z} 10'49	1°52'45
	9662 Nov 27 15:14	0° \mathbb{M}		minimum elong	9668 Dec 29 22:01	14° \mathbb{Z} 10'49	1°53'07
retrograde	9663 Feb 07 23:28	4° \mathbb{M} 09'44		max. Earth dist.	9668 Dec 29 13:08	14° \mathbb{Z} 08'01	10.33791 AU
opposition	9663 Apr 17 02:54	0° \mathbb{M} 43'08	1°14'36	morning rise	9669 Jan 16 12:08	16° \mathbb{Z} 23'05	
min. Earth dist.	9663 Apr 17 01:47	0° \mathbb{M} 43'22	8.35130 AU	retrograde	9669 Apr 28 17:04	24° \mathbb{Z} 08'04	
	9663 Apr 26 03:26	30° \mathbb{R} \mathbb{L}		opposition	9669 Jul 04 21:54	20° \mathbb{Z} 44'34	2°14'48
direct	9663 Jun 23 13:15	27° \mathbb{L} 18'01		min. Earth dist.	9669 Jul 05 04:15	20° \mathbb{Z} 43'18	8.35380 AU
	9663 Aug 19 00:11	0° \mathbb{M}		direct	9669 Sep 11 15:42	17° \mathbb{Z} 17'15	
evening set	9663 Oct 04 09:51	5° \mathbb{M} 04'20		evening set	9669 Dec 26 04:16	25° \mathbb{Z} 13'36	
conjunction	9663 Oct 22 05:42	7° \mathbb{M} 17'58	1°11'11	conjunction	9670 Jan 12 19:22	27° \mathbb{Z} 25'48	1°43'07
minimum elong	9663 Oct 22 05:39	7° \mathbb{M} 17'57	1°11'23	minimum elong	9670 Jan 12 19:24	27° \mathbb{Z} 25'49	1°43'28
max. Earth dist.	9663 Oct 22 06:20	7° \mathbb{M} 18'10	10.33672 AU	max. Earth dist.	9670 Jan 12 10:57	27° \mathbb{Z} 23'09	10.36970 AU
morning rise	9663 Nov 09 02:44	9° \mathbb{M} 32'01		morning rise	9670 Jan 30 07:19	29° \mathbb{Z} 37'06	
	9663 Dec 29 20:08	15° \mathbb{M}			9670 Feb 02 10:00	0° \mathbb{N}	
retrograde	9664 Feb 21 15:48	17° \mathbb{M} 26'16		retrograde	9670 May 12 01:30	7° \mathbb{N} 18'11	
	9664 Apr 16 21:05	15° \mathbb{R} \mathbb{M}		opposition	9670 Jul 18 08:25	3° \mathbb{N} 55'23	1°59'25
opposition	9664 Apr 29 12:13	13° \mathbb{M} 59'52	1°41'01	min. Earth dist.	9670 Jul 18 14:28	3° \mathbb{N} 54'11	8.39000 AU
min. Earth dist.	9664 Apr 29 12:05	13° \mathbb{M} 59'54	8.32569 AU	direct	9670 Sep 25 09:34	0° \mathbb{N} 28'18	
direct	9664 Jul 06 00:49	10° \mathbb{M} 34'04		evening set	9671 Jan 08 22:40	8° \mathbb{N} 22'11	
	9664 Sep 18 04:46	15° \mathbb{M}					
evening set	9664 Oct 17 12:23	18° \mathbb{M} 24'26		conjunction	9671 Jan 26 11:59	10° \mathbb{N} 33'23	1°28'11
				minimum elong	9671 Jan 26 12:01	10° \mathbb{N} 33'24	1°28'28
conjunction	9664 Nov 04 08:42	20° \mathbb{M} 38'32	1°30'30	max. Earth dist.	9671 Jan 26 04:12	10° \mathbb{N} 30'56	10.41044 AU
minimum elong	9664 Nov 04 08:39	20° \mathbb{M} 38'31	1°30'46	morning rise	9671 Feb 12 21:44	12° \mathbb{N} 43'34	
max. Earth dist.	9664 Nov 04 07:46	20° \mathbb{M} 38'14	10.31591 AU		9671 Mar 04 01:48	15° \mathbb{N}	
morning rise	9664 Nov 22 05:13	22° \mathbb{M} 52'45		retrograde	9671 May 25 06:17	20° \mathbb{N} 20'28	
	9665 Feb 04 18:00	0° \mathbb{X}		opposition	9671 Jul 31 17:31	16° \mathbb{N} 58'19	1°37'59
retrograde	9665 Mar 06 09:29	0° \mathbb{X} 46'49		min. Earth dist.	9671 Jul 31 23:29	16° \mathbb{N} 57'09	8.43403 AU
	9665 Apr 05 04:37	30° \mathbb{R} \mathbb{M}			9671 Aug 27 10:03	15° \mathbb{R} \mathbb{N}	
opposition	9665 May 12 22:55	27° \mathbb{M} 20'45	2°02'09	direct	9671 Oct 09 02:04	13° \mathbb{N} 31'38	
min. Earth dist.	9665 May 13 00:09	27° \mathbb{M} 20'30	8.31054 AU		9671 Nov 20 03:08	15° \mathbb{N}	
direct	9665 Jul 19 14:19	23° \mathbb{M} 54'20		evening set	9672 Jan 22 12:03	21° \mathbb{N} 22'06	
	9665 Oct 16 18:43	0° \mathbb{X}					
evening set	9665 Oct 31 17:00	1° \mathbb{X} 47'59		conjunction	9672 Feb 08 23:12	23° \mathbb{N} 32'06	1°08'51
				minimum elong	9672 Feb 08 23:14	23° \mathbb{N} 32'06	1°09'05
conjunction	9665 Nov 18 13:00	4° \mathbb{X} 02'11	1°44'59	max. Earth dist.	9672 Feb 08 15:51	23° \mathbb{N} 29'48	10.45791 AU
minimum elong	9665 Nov 18 12:58	4° \mathbb{X} 02'10	1°45'18	morning rise	9672 Feb 26 06:43	25° \mathbb{N} 41'03	
max. Earth dist.	9665 Nov 18 09:43	4° \mathbb{X} 01'09	10.30572 AU		9672 Apr 05 01:04	0° \mathbb{H}	
morning rise	9665 Dec 06 08:24	6° \mathbb{X} 16'16		retrograde	9672 Jun 06 08:04	3° \mathbb{H} 13'46	
retrograde	9666 Mar 20 02:39	14° \mathbb{X} 09'12			9672 Aug 11 08:51	30° \mathbb{R} \mathbb{N}	
opposition	9666 May 26 10:28	10° \mathbb{X} 43'38	2°16'42	opposition	9672 Aug 13 00:43	29° \mathbb{N} 52'12	1°11'49

min. Earth dist.	9672 Aug 13 06:43	29°  51'02	8.48365 AU	retrograde	9678 Aug 20 08:26	17°  29'56	
direct	9672 Oct 21 15:21	26°  26'02			9678 Oct 17 18:05	15°  R 	
	9672 Dec 28 01:47	0° 		opposition	9678 Oct 28 23:40	14°  09'38	-1°40'55
evening set	9673 Feb 03 19:48	4°  12'20		min. Earth dist.	9678 Oct 28 22:09	14°  09'55	8.75863 AU
				direct	9679 Jan 07 02:52	10°  48'10	
conjunction	9673 Feb 21 04:33	6°  12'02	0°46'17		9679 Mar 22 06:14	15° 	
minimum elong	9673 Feb 21 04:34	6°  12'03	0°46'27	evening set	9679 Apr 19 11:23	18°  09'23	
max. Earth dist.	9673 Feb 20 21:28	6°  18'50	10.50968 AU				
morning rise	9673 Mar 10 09:54	8°  18'43		conjunction	9679 May 06 06:05	20°  10'56	-1°30'27
retrograde	9673 Jun 19 05:33	15°  15'30		minimum elong	9679 May 06 06:03	20°  10'55	1°30'43
opposition	9673 Aug 26 05:50	12°  13'6'24	0°42'26	max. Earth dist.	9679 May 06 08:20	20°  11'37	10.77001 AU
min. Earth dist.	9673 Aug 26 11:09	12°  13'5'22	8.53638 AU	morning rise	9679 May 23 00:23	22°  12'22	
direct	9673 Nov 04 02:10	9°  10'54		retrograde	9679 Sep 01 19:52	29°  31'50	
evening set	9674 Feb 16 21:46	16°  15'2'36		opposition	9679 Nov 10 17:49	26°  11'20	-2°00'05
				min. Earth dist.	9679 Nov 10 14:27	26°  11'58	8.78048 AU
conjunction	9674 Mar 06 04:02	18°  15'59'55	0°21'43	direct	9680 Jan 19 17:53	22°  15'0'34	
minimum elong	9674 Mar 06 04:03	18°  15'59'56	0°21'48		9680 Apr 29 07:38	0°  II	
max. Earth dist.	9674 Mar 05 22:03	18°  15'58'05	10.56313 AU	evening set	9680 Apr 30 14:42	0°  II09'12	
morning rise	9674 Mar 23 07:13	21°  16'06'19					
retrograde	9674 Jul 01 23:14	28°  16'31'42		conjunction	9680 May 17 08:20	2°  II10'13	-1°43'59
opposition	9674 Sep 08 08:36	25°  16'10'57	0°11'22	minimum elong	9680 May 17 08:18	2°  II10'13	1°44'18
min. Earth dist.	9674 Sep 08 12:22	25°  16'10'14	8.58952 AU	max. Earth dist.	9680 May 17 13:03	2°  II11'39	10.78631 AU
direct	9674 Nov 17 10:43	21°  16'46'12		morning rise	9680 Jun 03 02:05	4°  II11'19	
desc. node	9675 Jan 22 22:09	25°  16'13'08		retrograde	9680 Sep 13 08:58	11°  II31'54	
evening set	9675 Mar 01 18:29	29°  16'23'12		opposition	9680 Nov 22 11:14	8°  II11'06	-2°13'57
	9675 Mar 06 19:58	0° 		min. Earth dist.	9680 Nov 22 06:04	8°  II12'05	8.79166 AU
				direct	9681 Jan 31 07:15	4°  II50'53	
conjunction	9675 Mar 18 22:13	1°  Y29'08	-0°03'44	evening set	9681 May 12 17:11	12°  II07'39	
minimum elong	9675 Mar 18 22:14	1°  Y29'08	0°03'43				
behind sun begin	9675 Mar 18 15:13	1°  Y27'00		conjunction	9681 May 29 10:23	14°  II08'27	-1°52'57
behind sun end	9675 Mar 19 05:15	1°  Y31'17		minimum elong	9681 May 29 10:21	14°  II08'27	1°53'18
max. Earth dist.	9675 Mar 18 18:16	1°  Y27'57	10.61553 AU	max. Earth dist.	9681 May 29 16:34	14°  II10'20	10.79179 AU
morning rise	9675 Apr 04 23:06	3°  Y34'14		morning rise	9681 Jun 15 04:22	16°  II09'32	
retrograde	9675 Jul 14 16:45	10° Y56'53		retrograde	9681 Sep 26 00:04	23° II31'47	
opposition	9675 Sep 21 09:02	7° Y36'23	-0°19'50	opposition	9681 Dec 05 04:07	20° II10'36	-2°21'59
min. Earth dist.	9675 Sep 21 10:59	7° Y36'01	8.64050 AU	min. Earth dist.	9681 Dec 04 22:15	20° II11'43	8.79184 AU
direct	9675 Nov 30 13:59	4° Y12'29		direct	9682 Feb 12 17:27	16° II50'47	
evening set	9676 Mar 13 10:22	11° Y44'52		evening set	9682 May 24 19:38	24° II06'23	
conjunction	9676 Mar 30 11:34	13° Y49'30	-0°28'37	conjunction	9682 Jun 10 13:04	26° II07'19	-1°57'00
minimum elong	9676 Mar 30 11:33	13° Y49'30	0°28'40	minimum elong	9682 Jun 10 13:03	26° II07'19	1°57'22
max. Earth dist.	9676 Mar 30 09:52	13° Y48'59	10.66447 AU	max. Earth dist.	9682 Jun 10 19:41	26° II09'19	10.78635 AU
morning rise	9676 Apr 16 10:12	15° Y53'25		morning rise	9682 Jun 27 08:10	28° II08'43	
retrograde	9676 Jul 26 07:39	23° Y14'03			9682 Jul 13 10:09	0° II	
opposition	9676 Oct 03 07:42	19° Y53'44	-0°49'47	retrograde	9682 Oct 08 14:05	5° II33'09	
min. Earth dist.	9676 Oct 03 08:10	19° Y53'38	8.68703 AU	opposition	9682 Dec 17 21:08	2° II11'30	-2°23'51
direct	9676 Dec 12 12:39	16° Y30'41		min. Earth dist.	9682 Dec 17 15:04	2° II12'39	8.78104 AU
evening set	9677 Mar 25 21:53	23° Y58'49			9683 Jan 18 13:16	30° R II	
				direct	9683 Feb 25 03:57	28° II51'53	
conjunction	9677 Apr 11 20:34	26° Y02'13	-0°52'01		9683 Apr 02 23:23	0° II	
minimum elong	9677 Apr 11 20:33	26° Y02'13	0°52'08	evening set	9683 Jun 05 22:46	6° II07'06	
max. Earth dist.	9677 Apr 11 20:20	26° Y02'09	10.70775 AU				
morning rise	9677 Apr 28 17:20	28° Y05'06		conjunction	9683 Jun 22 17:17	8° II08'27	-1°55'56
	9677 May 15 05:19	0° II		minimum elong	9683 Jun 22 17:18	8° II08'28	1°56'18
retrograde	9677 Aug 07 20:02	5° II24'34		max. Earth dist.	9683 Jun 23 00:23	8° II10'37	10.77025 AU
opposition	9677 Oct 16 04:31	2° II04'19	-1°17'10	morning rise	9683 Jul 09 14:13	10° II10'30	
min. Earth dist.	9677 Oct 16 04:10	2° II04'23	8.72702 AU	retrograde	9683 Oct 21 06:42	17° II37'35	
	9677 Nov 14 15:37	30° R Y		opposition	9683 Dec 30 14:30	14° II15'21	-2°19'24
direct	9677 Dec 25 09:02	28° Y42'05		min. Earth dist.	9683 Dec 30 07:59	14° II16'35	8.75969 AU
	9678 Feb 03 05:46	0° II		direct	9684 Mar 08 15:38	10° II55'47	
evening set	9678 Apr 07 06:01	6° II06'28		evening set	9684 Jun 17 03:43	18° II11'18	
conjunction	9678 Apr 24 02:26	8° II08'50	-1°12'54	conjunction	9684 Jul 04 00:16	20° II13'28	-1°49'45
minimum elong	9678 Apr 24 02:24	8° II08'49	1°13'06	minimum elong	9684 Jul 04 00:17	20° II13'28	1°50'06
max. Earth dist.	9678 Apr 24 03:05	8° II09'01	10.74345 AU	max. Earth dist.	9684 Jul 04 08:33	20° II15'59	10.74403 AU
morning rise	9678 May 10 21:47	10° II10'52		morning rise	9684 Jul 20 23:35	22° II16'27	
	9678 Jun 25 17:00	15° II		retrograde	9684 Nov 02 02:52	29° II46'29	

opposition	9685 Jan 11 08:20	26° \mathfrak{D} 23'36	-2°08'45	behind sun end	9690 Sep 18 19:29	5° \mathfrak{D} 17'23	
min. Earth dist.	9685 Jan 11 01:06	26° \mathfrak{D} 24'59	8.72845 AU	max. Earth dist.	9690 Sep 18 17:45	5° \mathfrak{D} 16'51	10.44560 AU
direct	9685 Mar 21 02:26	23° \mathfrak{D} 03'53		morning rise	9690 Oct 06 08:25	7° \mathfrak{D} 27'31	
	9685 Jun 26 14:21	0° \mathfrak{D}		retrograde	9691 Jan 19 11:49	15° \mathfrak{D} 17'17	
evening set	9685 Jun 29 11:22	0° \mathfrak{D} 20'30		opposition	9691 Mar 29 03:12	11° \mathfrak{D} 50'50	0°30'01
				min. Earth dist.	9691 Mar 29 00:42	11° \mathfrak{D} 51'20	8.42009 AU
conjunction	9685 Jul 16 10:36	2° \mathfrak{D} 23'45	-1°38'36	direct	9691 Jun 04 14:02	8° \mathfrak{D} 26'56	
minimum elong	9685 Jul 16 10:38	2° \mathfrak{D} 23'45	1°38'56	evening set	9691 Sep 14 13:01	16° \mathfrak{D} 05'30	
max. Earth dist.	9685 Jul 16 19:20	2° \mathfrak{D} 26'25	10.70831 AU				
morning rise	9685 Aug 02 12:52	4° \mathfrak{D} 27'56		conjunction	9691 Oct 02 06:46	18° \mathfrak{D} 17'39	0°36'54
retrograde	9685 Nov 15 01:00	12° \mathfrak{D} 01'10		minimum elong	9691 Oct 02 06:44	18° \mathfrak{D} 17'38	0°37'00
opposition	9686 Jan 24 03:11	8° \mathfrak{D} 37'36	-1°52'13	max. Earth dist.	9691 Oct 02 08:28	18° \mathfrak{D} 18'11	10.39629 AU
min. Earth dist.	9686 Jan 23 19:58	8° \mathfrak{D} 38'59	8.68794 AU	morning rise	9691 Oct 20 02:47	20° \mathfrak{D} 30'33	
direct	9686 Apr 02 14:12	5° \mathfrak{D} 17'32		retrograde	9692 Feb 02 02:33	28° \mathfrak{D} 22'32	
evening set	9686 Jul 11 22:39	12° \mathfrak{D} 36'04		opposition	9692 Apr 10 09:20	24° \mathfrak{D} 55'52	1°01'12
				min. Earth dist.	9692 Apr 10 08:29	24° \mathfrak{D} 56'02	8.37449 AU
conjunction	9686 Jul 29 00:54	14° \mathfrak{D} 40'39	-1°22'54	direct	9692 Jun 16 19:22	21° \mathfrak{D} 31'00	
minimum elong	9686 Jul 29 00:56	14° \mathfrak{D} 40'40	1°23'10	evening set	9692 Sep 27 08:50	29° \mathfrak{D} 14'30	
max. Earth dist.	9686 Jul 29 08:42	14° \mathfrak{D} 43'02	10.66383 AU		9692 Oct 03 12:00	0° \mathfrak{M}	
	9686 Jul 31 16:12	15° \mathfrak{D}					
morning rise	9686 Aug 15 06:36	16° \mathfrak{D} 46'16		conjunction	9692 Oct 15 04:03	1° \mathfrak{M} 27'40	1°01'04
retrograde	9686 Nov 28 02:32	24° \mathfrak{D} 22'55		minimum elong	9692 Oct 15 04:00	1° \mathfrak{M} 27'39	1°01'14
opposition	9687 Feb 05 23:28	20° \mathfrak{D} 58'42	-1°30'21	max. Earth dist.	9692 Oct 15 03:19	1° \mathfrak{M} 27'26	10.35454 AU
min. Earth dist.	9687 Feb 05 17:17	20° \mathfrak{D} 59'54	8.63926 AU	morning rise	9692 Nov 02 00:57	3° \mathfrak{M} 41'22	
direct	9687 Apr 15 03:24	17° \mathfrak{D} 38'07		retrograde	9693 Feb 14 17:29	11° \mathfrak{M} 34'47	
evening set	9687 Jul 24 14:25	24° \mathfrak{D} 59'26		opposition	9693 Apr 23 17:13	8° \mathfrak{M} 08'06	1°29'29
				min. Earth dist.	9693 Apr 23 18:16	8° \mathfrak{M} 07'53	8.33768 AU
conjunction	9687 Aug 10 20:01	27° \mathfrak{D} 05'32	-1°03'11	direct	9693 Jun 30 04:49	4° \mathfrak{M} 42'19	
minimum elong	9687 Aug 10 20:03	27° \mathfrak{D} 05'33	1°03'25	evening set	9693 Oct 11 08:56	12° \mathfrak{M} 30'28	
max. Earth dist.	9687 Aug 11 02:06	27° \mathfrak{D} 07'24	10.61230 AU				
morning rise	9687 Aug 28 05:25	29° \mathfrak{D} 12'45		conjunction	9693 Oct 29 04:54	14° \mathfrak{M} 44'19	1°22'10
	9687 Sep 03 20:19	0° \mathfrak{M}		minimum elong	9693 Oct 29 04:52	14° \mathfrak{M} 44'18	1°22'25
retrograde	9687 Dec 11 06:45	6° \mathfrak{M} 52'58		max. Earth dist.	9693 Oct 29 02:02	14° \mathfrak{M} 43'25	10.32250 AU
opposition	9688 Feb 18 21:28	3° \mathfrak{M} 28'06	-1°04'00		9693 Oct 31 06:43	15° \mathfrak{M}	
min. Earth dist.	9688 Feb 18 16:44	3° \mathfrak{M} 29'01	8.58492 AU	morning rise	9693 Nov 16 01:51	16° \mathfrak{M} 58'28	
direct	9688 Apr 26 18:52	0° \mathfrak{M} 06'49		retrograde	9694 Feb 28 09:55	24° \mathfrak{M} 52'29	
evening set	9688 Aug 05 11:19	7° \mathfrak{M} 31'42		opposition	9694 May 07 02:50	21° \mathfrak{M} 25'56	1°53'12
				min. Earth dist.	9694 May 07 05:22	21° \mathfrak{M} 25'25	8.31152 AU
conjunction	9688 Aug 22 20:30	9° \mathfrak{M} 39'27	-0°40'16	direct	9694 Jul 13 17:11	17° \mathfrak{M} 59'22	
minimum elong	9688 Aug 22 20:32	9° \mathfrak{M} 39'27	0°40'26	evening set	9694 Oct 25 11:55	25° \mathfrak{M} 51'29	
max. Earth dist.	9688 Aug 23 01:37	9° \mathfrak{M} 41'01	10.55663 AU				
morning rise	9688 Sep 09 09:26	11° \mathfrak{M} 48'18		conjunction	9694 Nov 12 08:04	28° \mathfrak{M} 05'42	1°38'58
retrograde	9688 Dec 23 12:29	19° \mathfrak{M} 32'00		minimum elong	9694 Nov 12 08:02	28° \mathfrak{M} 05'41	1°39'17
opposition	9689 Mar 02 21:22	16° \mathfrak{M} 06'30	-0°34'13	max. Earth dist.	9694 Nov 12 03:49	28° \mathfrak{M} 04'21	10.30183 AU
min. Earth dist.	9689 Mar 02 17:31	16° \mathfrak{M} 07'16	8.52816 AU		9694 Nov 27 11:53	0° \mathfrak{X}	
direct	9689 May 09 15:10	12° \mathfrak{M} 44'25		morning rise	9694 Nov 30 04:16	0° \mathfrak{X} 19'57	
evening set	9689 Aug 18 14:01	20° \mathfrak{M} 13'29		retrograde	9695 Mar 14 02:08	8° \mathfrak{X} 13'37	
				opposition	9695 May 20 13:37	4° \mathfrak{X} 47'22	2°10'54
conjunction	9689 Sep 05 02:36	22° \mathfrak{M} 22'51	-0°15'09	min. Earth dist.	9695 May 20 16:56	4° \mathfrak{X} 46'42	8.29731 AU
minimum elong	9689 Sep 05 02:37	22° \mathfrak{M} 22'51	0°15'14	direct	9695 Jul 27 08:37	1° \mathfrak{X} 20'11	
behind sun begin	9689 Sep 05 00:26	22° \mathfrak{M} 22'12		evening set	9695 Nov 08 16:45	9° \mathfrak{X} 15'24	
behind sun end	9689 Sep 05 04:47	22° \mathfrak{M} 23'31					
max. Earth dist.	9689 Sep 05 07:05	22° \mathfrak{M} 24'14	10.50000 AU	conjunction	9695 Nov 26 12:32	11° \mathfrak{X} 29'39	1°50'28
morning rise	9689 Sep 22 18:30	24° \mathfrak{M} 33'14		minimum elong	9695 Nov 26 12:30	11° \mathfrak{X} 29'38	1°50'49
	9689 Nov 13 09:48	0° \mathfrak{D}		max. Earth dist.	9695 Nov 26 07:24	11° \mathfrak{X} 28'02	10.29359 AU
retrograde	9690 Jan 05 22:29	2° \mathfrak{D} 20'12		morning rise	9695 Dec 14 07:19	13° \mathfrak{X} 43'41	
	9690 Mar 01 20:02	30° \mathfrak{R} \mathfrak{M}		retrograde	9696 Mar 26 17:27	21° \mathfrak{X} 35'57	
opposition	9690 Mar 15 23:10	28° \mathfrak{M} 54'10	-0°02'22	opposition	9696 Jun 02 01:04	18° \mathfrak{X} 10'12	2°21'33
min. Earth dist.	9690 Mar 15 19:53	28° \mathfrak{M} 54'49	8.47219 AU	min. Earth dist.	9696 Jun 02 05:03	18° \mathfrak{X} 09'24	8.29569 AU
asc. node	9690 Apr 12 08:15	26° \mathfrak{M} 53'03		direct	9696 Aug 09 02:07	14° \mathfrak{X} 42'34	
direct	9690 May 22 13:19	25° \mathfrak{M} 31'12		evening set	9696 Nov 21 21:42	22° \mathfrak{X} 39'45	
	9690 Aug 05 05:25	0° \mathfrak{D}					
evening set	9690 Aug 31 22:38	3° \mathfrak{D} 04'52		conjunction	9696 Dec 09 16:33	24° \mathfrak{X} 53'44	1°55'59
				minimum elong	9696 Dec 09 16:32	24° \mathfrak{X} 53'44	1°56'22
conjunction	9690 Sep 18 14:08	5° \mathfrak{D} 15'44	0°11'04	max. Earth dist.	9696 Dec 09 10:30	24° \mathfrak{X} 51'50	10.29823 AU
minimum elong	9690 Sep 18 14:08	5° \mathfrak{D} 15'44	0°11'05	morning rise	9696 Dec 27 09:32	27° \mathfrak{X} 07'15	
behind sun begin	9690 Sep 18 08:46	5° \mathfrak{D} 14'05			9697 Jan 20 17:53	0° \mathfrak{Z}	

retrograde	9697 Apr 09 08:12	4°♄57'13		retrograde	9703 Jun 27 12:09	22°♄58'40	
opposition	9697 Jun 15 13:01	1°♄32'07	2°24'30	opposition	9703 Sep 03 15:53	19°♄38'05	0°25'52
min. Earth dist.	9697 Jun 15 17:48	1°♄31'09	8.30683 AU	min. Earth dist.	9703 Sep 03 19:29	19°♄37'23	8.56981 AU
	9697 Jul 05 07:26	30°♄♂		direct	9703 Nov 12 14:19	16°♄13'21	
direct	9697 Aug 22 19:36	28°♄04'15		evening set	9704 Feb 25 05:10	23°♄52'37	
	9697 Oct 09 13:26	0°♄					
evening set	9697 Dec 06 00:59	6°♄02'04		conjunction	9704 Mar 13 10:07	25°♄59'11	0°08'09
				minimum elong	9704 Mar 13 10:07	25°♄59'11	0°08'11
conjunction	9697 Dec 23 18:29	8°♄15'33	1°55'14	behind sun begin	9704 Mar 13 03:49	25°♄57'15	
minimum elong	9697 Dec 23 18:30	8°♄15'33	1°55'36	behind sun end	9704 Mar 13 16:25	26°♄01'06	
max. Earth dist.	9697 Dec 23 11:32	8°♄13'21	10.31564 AU	max. Earth dist.	9704 Mar 13 06:09	25°♄57'59	10.59775 AU
morning rise	9698 Jan 10 09:31	10°♄28'18		morning rise	9704 Mar 30 11:58	28°♄04'51	
retrograde	9698 Apr 22 20:55	18°♄15'10			9704 Apr 15 20:37	0°♄	
opposition	9698 Jun 29 00:47	14°♄50'49	2°19'40	retrograde	9704 Jul 09 06:26	5°♄28'43	
min. Earth dist.	9698 Jun 29 06:32	14°♄49'40	8.33023 AU	desc. node	9704 Jul 12 04:51	5°♄28'15	
direct	9698 Sep 05 14:02	11°♄22'59		opposition	9704 Sep 15 17:56	2°♄08'33	-0°05'28
evening set	9698 Dec 20 01:33	19°♄20'09		min. Earth dist.	9704 Sep 15 20:53	2°♄07'59	8.62476 AU
					9704 Oct 16 00:32	30°♄♂	
conjunction	9699 Jan 06 17:27	21°♄32'51	1°48'19	direct	9704 Nov 24 19:39	28°♄44'42	
minimum elong	9699 Jan 06 17:28	21°♄32'52	1°48'40		9705 Jan 02 22:38	0°♄	
max. Earth dist.	9699 Jan 06 09:27	21°♄30'20	10.34497 AU	evening set	9705 Mar 08 23:44	6°♄19'14	
morning rise	9699 Jan 24 06:30	23°♄44'43					
	9699 Mar 26 12:10	0°♄		conjunction	9705 Mar 26 01:59	8°♄24'25	-0°17'12
retrograde	9699 May 06 05:44	1°♄27'47		minimum elong	9705 Mar 26 01:58	8°♄24'25	0°17'14
	9699 Jun 16 17:11	30°♄♂		max. Earth dist.	9705 Mar 25 22:48	8°♄23'27	10.65087 AU
opposition	9699 Jul 12 11:37	28°♄04'17	2°07'25	morning rise	9705 Apr 12 01:43	10°♄28'50	
min. Earth dist.	9699 Jul 12 18:00	28°♄03'01	8.36468 AU	retrograde	9705 Jul 21 20:52	17°♄50'16	
direct	9699 Sep 19 08:57	24°♄36'43		opposition	9705 Sep 28 17:42	14°♄30'22	-0°36'09
	9699 Dec 12 11:57	0°♄		min. Earth dist.	9705 Sep 28 19:31	14°♄30'01	8.67539 AU
evening set	9700 Jan 02 22:11	2°♄32'00		direct	9705 Dec 07 22:00	11°♄07'22	
				evening set	9706 Mar 21 13:35	18°♄37'25	
conjunction	9700 Jan 20 12:17	4°♄43'44	1°35'44				
minimum elong	9700 Jan 20 12:19	4°♄43'45	1°36'03	conjunction	9706 Apr 07 13:21	20°♄41'19	-0°41'26
max. Earth dist.	9700 Jan 20 03:57	4°♄41'07	10.38458 AU	minimum elong	9706 Apr 07 13:19	20°♄41'18	0°41'32
morning rise	9700 Feb 06 23:16	6°♄54'32		max. Earth dist.	9706 Apr 07 11:34	20°♄40'46	10.69792 AU
retrograde	9700 May 19 11:01	14°♄33'29		morning rise	9706 Apr 24 11:04	22°♄44'36	
opposition	9700 Jul 25 21:22	11°♄10'50	1°48'37		9706 Jul 25 04:47	0°♄	
min. Earth dist.	9700 Jul 26 03:23	11°♄09'39	8.40829 AU	retrograde	9706 Aug 03 10:44	0°♄04'28	
direct	9700 Oct 03 03:13	7°♄43'46			9706 Aug 12 18:50	30°♄♂	
	9701 Jan 11 15:21	15°♄		opposition	9706 Oct 11 15:29	26°♄44'39	-1°04'51
evening set	9701 Jan 16 13:53	15°♄36'02		min. Earth dist.	9706 Oct 11 15:39	26°♄44'37	8.71841 AU
				direct	9706 Dec 20 21:16	23°♄22'29	
conjunction	9701 Feb 03 02:01	17°♄46'39	1°18'18		9707 Mar 27 03:05	0°♄	
minimum elong	9701 Feb 03 02:03	17°♄46'39	1°18'34	evening set	9707 Apr 02 23:34	0°♄48'34	
max. Earth dist.	9701 Feb 02 18:33	17°♄44'18	10.43228 AU				
morning rise	9701 Feb 20 10:46	19°♄56'14		conjunction	9707 Apr 19 21:05	2°♄51'21	-1°03'35
retrograde	9701 Jun 01 14:49	27°♄31'01		minimum elong	9707 Apr 19 21:03	2°♄51'20	1°03'46
opposition	9701 Aug 08 05:31	24°♄09'08	1°24'27	max. Earth dist.	9707 Apr 19 21:11	2°♄51'23	10.73584 AU
min. Earth dist.	9701 Aug 08 10:32	24°♄08'09	8.45875 AU	morning rise	9707 May 06 16:56	4°♄53'42	
direct	9701 Oct 16 17:46	20°♄42'45		retrograde	9707 Aug 16 01:18	12°♄12'55	
evening set	9702 Jan 30 00:22	28°♄31'08		opposition	9707 Oct 24 11:43	8°♄53'04	-1°30'24
	9702 Feb 11 00:28	0°♄♂		min. Earth dist.	9707 Oct 24 10:44	8°♄53'15	8.75138 AU
				direct	9708 Jan 02 15:37	5°♄31'40	
conjunction	9702 Feb 16 10:23	0°♄40'29	0°57'05	evening set	9708 Apr 14 06:36	12°♄54'26	
minimum elong	9702 Feb 16 10:25	0°♄40'30	0°57'17				
max. Earth dist.	9702 Feb 16 04:25	0°♄38'38	10.48558 AU	conjunction	9708 May 01 02:07	14°♄56'21	-1°22'46
morning rise	9702 Mar 05 16:48	2°♄48'47		minimum elong	9708 May 01 02:05	14°♄56'21	1°23'01
retrograde	9702 Jun 14 15:15	10°♄19'30		max. Earth dist.	9708 May 01 03:22	14°♄56'44	10.76310 AU
opposition	9702 Aug 21 11:40	6°♄58'19	0°56'21		9708 May 01 14:06	15°♄	
min. Earth dist.	9702 Aug 21 15:43	6°♄57'31	8.51352 AU	morning rise	9708 May 17 20:41	16°♄58'02	
direct	9702 Oct 30 05:23	3°♄32'44		retrograde	9708 Aug 27 13:29	24°♄17'28	
evening set	9703 Feb 12 05:27	11°♄16'42		opposition	9708 Nov 05 06:56	20°♄57'26	-1°51'47
				min. Earth dist.	9708 Nov 05 05:14	20°♄57'45	8.77348 AU
conjunction	9703 Mar 01 13:05	13°♄24'41	0°33'16	direct	9709 Jan 14 06:59	17°♄36'38	
minimum elong	9703 Mar 01 13:06	13°♄24'41	0°33'24	evening set	9709 Apr 26 11:21	24°♄56'45	
max. Earth dist.	9703 Mar 01 08:28	13°♄23'15	10.54170 AU				
morning rise	9703 Mar 18 17:11	15°♄31'40		conjunction	9709 May 13 05:22	26°♄58'03	-1°38'14

minimum elong	9709 May 13 05:20	26° 8 58'02	1°38'32	minimum elong	9715 Jul 24 18:52	9° 2 28'12	1°30'42
max. Earth dist.	9709 May 13 07:13	26° 8 58'36	10.77935 AU	max. Earth dist.	9715 Jul 25 02:06	9° 2 30'25	10.65645 AU
morning rise	9709 May 29 23:21	28° 8 59'20		morning rise	9715 Aug 10 23:12	11° 2 33'30	
	9709 Jun 07 14:11	0° II			9715 Sep 10 16:04	15° 2	
retrograde	9709 Sep 09 01:53	6° II 19'44		retrograde	9715 Nov 23 15:04	19° 2 09'51	
opposition	9709 Nov 18 01:14	2° II 59'18	-2°08'12	opposition	9716 Feb 01 15:25	15° 2 45'12	-1°40'43
min. Earth dist.	9709 Nov 17 22:56	2° II 59'44	8.78443 AU	min. Earth dist.	9716 Feb 01 09:15	15° 2 46'24	8.63327 AU
	9710 Jan 06 07:12	30° 8 8			9716 Feb 11 11:17	15° 8 2	
direct	9710 Jan 26 22:24	29° 8 38'56		direct	9716 Apr 09 23:23	12° 2 24'09	
	9710 Feb 16 08:37	0° II			9716 Jun 04 19:20	15° 2	
evening set	9710 May 08 14:45	6° II 57'02		evening set	9716 Jul 19 08:06	19° 2 45'20	
conjunction	9710 May 25 08:00	8° II 58'01	-1°49'21	conjunction	9716 Aug 05 12:28	21° 2 51'07	-1°12'21
minimum elong	9710 May 25 07:58	8° II 58'01	1°49'42	minimum elong	9716 Aug 05 12:30	21° 2 51'08	1°12'36
max. Earth dist.	9710 May 25 10:58	8° II 58'55	10.78443 AU	max. Earth dist.	9716 Aug 05 20:19	21° 2 53'32	10.60767 AU
morning rise	9710 Jun 11 01:58	10° II 59'12		morning rise	9716 Aug 22 20:18	23° 2 57'58	
retrograde	9710 Sep 21 15:36	18° II 21'10			9716 Oct 22 02:09	0° II	
opposition	9710 Nov 30 18:49	15° II 00'12	-2°19'00	retrograde	9716 Dec 05 19:06	1° II 37'50	
min. Earth dist.	9710 Nov 30 15:10	15° II 00'53	8.78411 AU		9717 Jan 20 06:55	30° 8 2	
direct	9711 Feb 08 11:19	11° II 40'06		opposition	9717 Feb 13 13:06	28° 2 12'30	-1°16'10
evening set	9711 May 20 17:32	18° II 56'51		min. Earth dist.	9717 Feb 13 06:43	28° 2 13'45	8.58210 AU
				direct	9717 Apr 22 13:59	24° 2 50'53	
conjunction	9711 Jun 06 10:53	20° II 57'51	-1°55'42		9717 Jul 12 18:36	0° II	
minimum elong	9711 Jun 06 10:52	20° II 57'50	1°56'04	evening set	9717 Aug 01 03:19	2° II 15'15	
max. Earth dist.	9711 Jun 06 15:53	20° II 59'22	10.77841 AU				
morning rise	9711 Jun 23 05:26	22° II 59'14		conjunction	9717 Aug 18 11:10	4° II 22'36	-0°50'41
	9711 Sep 12 15:32	0° 2		minimum elong	9717 Aug 18 11:11	4° II 22'37	0°50'53
retrograde	9711 Oct 04 05:58	0° 2 23'20		max. Earth dist.	9717 Aug 18 18:21	4° II 24'49	10.55530 AU
	9711 Oct 26 02:27	30° 8 II		morning rise	9717 Sep 04 22:32	6° II 31'04	
opposition	9711 Dec 13 12:20	27° II 01'41	-2°23'44	retrograde	9717 Dec 19 01:43	14° II 14'23	
min. Earth dist.	9711 Dec 13 07:05	27° II 02'41	8.77277 AU	opposition	9718 Feb 26 12:48	10° II 48'29	-0°47'39
direct	9712 Feb 20 23:07	23° II 41'42		min. Earth dist.	9718 Feb 26 07:08	10° II 49'36	8.52860 AU
	9712 May 23 15:46	0° 2		direct	9718 May 05 07:43	7° II 26'12	
evening set	9712 May 31 20:36	0° 2 57'47		evening set	9718 Aug 14 04:00	14° II 54'24	
conjunction	9712 Jun 17 14:47	2° 2 59'09	-1°56'59	conjunction	9718 Aug 31 15:08	17° II 03'21	-0°26'21
minimum elong	9712 Jun 17 14:47	2° 2 59'09	1°57'21	minimum elong	9718 Aug 31 15:09	17° II 03'21	0°26'28
max. Earth dist.	9712 Jun 17 21:23	3° 2 01'09	10.76170 AU	max. Earth dist.	9718 Aug 31 20:53	17° II 05'07	10.50188 AU
morning rise	9712 Jul 04 10:44	5° 2 01'04		morning rise	9718 Sep 18 05:51	19° II 13'23	
retrograde	9712 Oct 15 23:41	12° 2 27'46		retrograde	9719 Jan 01 11:14	27° II 00'00	
opposition	9712 Dec 25 05:59	9° 2 05'23	-2°22'11	opposition	9719 Mar 11 14:38	23° II 33'40	-0°16'27
min. Earth dist.	9712 Dec 24 23:51	9° 2 06'33	8.75093 AU	min. Earth dist.	9719 Mar 11 10:15	23° II 34'32	8.47553 AU
direct	9713 Mar 04 10:15	5° 2 45'21		direct	9719 May 18 04:53	20° II 10'38	
evening set	9713 Jun 13 01:12	13° 2 01'33		evening set	9719 Aug 27 10:40	27° II 43'13	
conjunction	9713 Jun 29 20:52	15° 2 03'35	-1°53'07	conjunction	9719 Sep 14 00:55	29° II 53'42	-0°00'26
minimum elong	9713 Jun 29 20:53	15° 2 03'36	1°53'28	minimum elong	9719 Sep 14 00:53	29° II 53'42	0°00'29
max. Earth dist.	9713 Jun 30 03:37	15° 2 05'39	10.73503 AU	behind sun begin	9719 Sep 13 17:41	29° II 51'29	
morning rise	9713 Jul 16 19:05	17° 2 06'23		behind sun end	9719 Sep 14 08:06	29° II 55'55	
retrograde	9713 Oct 28 18:49	24° 2 36'00		max. Earth dist.	9719 Sep 14 05:02	29° II 54'56	10.45019 AU
opposition	9714 Jan 07 00:01	21° 2 12'53	-2°14'19		9719 Sep 14 21:10	0° 2	
min. Earth dist.	9714 Jan 06 18:05	21° 2 14'01	8.71950 AU	asc. node	9719 Sep 20 01:57	0° 2 38'48	
direct	9714 Mar 16 20:18	17° 2 52'38		morning rise	9719 Oct 01 18:27	2° 2 05'10	
evening set	9714 Jun 25 08:03	25° 2 09'45		retrograde	9720 Jan 14 23:17	9° 2 54'43	
				opposition	9720 Mar 23 18:29	6° 2 28'06	0°15'58
conjunction	9714 Jul 12 05:58	27° 2 12'46	-1°44'10	min. Earth dist.	9720 Mar 23 15:31	6° 2 28'42	8.42572 AU
minimum elong	9714 Jul 12 06:00	27° 2 12'47	1°44'29	direct	9720 May 30 05:45	3° 2 04'18	
max. Earth dist.	9714 Jul 12 12:40	27° 2 14'49	10.69949 AU	evening set	9720 Sep 08 23:19	10° 2 41'38	
morning rise	9714 Jul 29 07:05	29° 2 16'43					
	9714 Aug 04 09:21	0° 2		conjunction	9720 Sep 26 16:11	12° 2 53'28	0°25'48
retrograde	9714 Nov 10 14:33	6° 2 49'35		minimum elong	9720 Sep 26 16:10	12° 2 53'28	0°25'51
opposition	9715 Jan 19 19:06	3° 2 25'42	-2°00'21	max. Earth dist.	9720 Sep 26 19:13	12° 2 54'25	10.40289 AU
min. Earth dist.	9715 Jan 19 13:14	3° 2 26'49	8.67973 AU	morning rise	9720 Oct 14 11:47	15° 2 06'10	
direct	9715 Mar 29 08:53	0° 2 05'06		retrograde	9721 Jan 27 13:07	22° 2 58'07	
evening set	9715 Jul 07 17:54	7° 2 23'53		opposition	9721 Apr 06 00:30	19° 2 31'23	0°47'56
				min. Earth dist.	9721 Apr 05 22:23	19° 2 31'49	8.38173 AU
conjunction	9715 Jul 24 18:50	9° 2 28'11	-1°30'24	direct	9721 Jun 12 10:59	16° 2 06'52	

evening set	9721 Sep 22 17:35	23° Ω 49'02	opposition	9727 Jun 24 17:23	9° \mathfrak{Z} 30'17	2°22'20
			min. Earth dist.	9727 Jun 24 23:09	9° \mathfrak{Z} 29'07	8.32698 AU
conjunction	9721 Oct 10 12:22	26° Ω 01'58 0°50'53	direct	9727 Sep 01 03:51	6° \mathfrak{Z} 02'54	
minimum elong	9721 Oct 10 12:20	26° Ω 01'58 0°51'02	evening set	9727 Dec 15 13:09	14° \mathfrak{Z} 00'34	
max. Earth dist.	9721 Oct 10 14:31	26° Ω 02'39 10.36246 AU				
morning rise	9721 Oct 28 09:01	28° Ω 15'32	conjunction	9728 Jan 02 05:50	16° \mathfrak{Z} 13'36	1°51'43
	9721 Nov 11 21:23	0° \mathfrak{M}	minimum elong	9728 Jan 02 05:51	16° \mathfrak{Z} 13'37	1°52'05
retrograde	9722 Feb 10 05:05	6° \mathfrak{M} 09'15	max. Earth dist.	9728 Jan 01 21:44	16° \mathfrak{Z} 11'03	10.33803 AU
opposition	9722 Apr 19 08:27	2° \mathfrak{M} 42'35 1°17'43	morning rise	9728 Jan 19 19:46	18° \mathfrak{Z} 25'52	
min. Earth dist.	9722 Apr 19 07:05	2° \mathfrak{M} 42'51 8.34591 AU	retrograde	9728 May 01 00:19	26° \mathfrak{Z} 10'46	
	9722 May 28 10:06	30° \mathfrak{R} Ω	opposition	9728 Jul 07 04:58	22° \mathfrak{Z} 47'20	2°13'07
direct	9722 Jun 25 19:08	29° Ω 17'22	min. Earth dist.	9728 Jul 07 10:54	22° \mathfrak{Z} 46'09	8.35418 AU
	9722 Jul 23 22:53	0° \mathfrak{M}	direct	9728 Sep 13 23:08	19° \mathfrak{Z} 20'04	
evening set	9722 Oct 06 16:47	7° \mathfrak{M} 04'09	evening set	9728 Dec 28 12:01	27° \mathfrak{Z} 16'28	
conjunction	9722 Oct 24 12:40	9° \mathfrak{M} 17'53 1°13'29	conjunction	9729 Jan 15 03:04	29° \mathfrak{Z} 28'39	1°41'26
minimum elong	9722 Oct 24 12:38	9° \mathfrak{M} 17'53 1°13'42	minimum elong	9729 Jan 15 03:06	29° \mathfrak{Z} 28'40	1°41'46
max. Earth dist.	9722 Oct 24 13:24	9° \mathfrak{M} 18'07 10.33116 AU	max. Earth dist.	9729 Jan 14 19:07	29° \mathfrak{Z} 26'09	10.37034 AU
morning rise	9722 Nov 11 09:35	11° \mathfrak{M} 32'00		9729 Jan 19 06:36	0° \approx	
	9722 Dec 11 06:57	15° \mathfrak{M}	morning rise	9729 Feb 01 14:49	1° \approx 39'55	
retrograde	9723 Feb 23 23:39	19° \mathfrak{M} 26'32	retrograde	9729 May 14 08:42	9° \approx 20'58	
opposition	9723 May 02 18:10	16° \mathfrak{M} 00'07 1°43'34	opposition	9729 Jul 20 15:45	5° \approx 58'15	1°56'57
min. Earth dist.	9723 May 02 18:04	16° \mathfrak{M} 00'08 8.32020 AU	min. Earth dist.	9729 Jul 20 21:59	5° \approx 57'01	8.39077 AU
	9723 May 15 09:08	15° \mathfrak{R} \mathfrak{M}	direct	9729 Sep 27 17:03	2° \approx 31'14	
direct	9723 Jul 09 05:27	12° \mathfrak{M} 34'13	evening set	9730 Jan 11 06:15	10° \approx 25'08	
	9723 Aug 31 16:39	15° \mathfrak{M}				
evening set	9723 Oct 20 19:43	20° \mathfrak{M} 25'09	conjunction	9730 Jan 28 19:23	12° \approx 36'18	1°25'55
			minimum elong	9730 Jan 28 19:25	12° \approx 36'19	1°26'12
conjunction	9723 Nov 07 15:57	22° \mathfrak{M} 39'19 1°32'16	max. Earth dist.	9730 Jan 28 11:22	12° \approx 33'47	10.41142 AU
minimum elong	9723 Nov 07 15:54	22° \mathfrak{M} 39'18 1°32'33	morning rise	9730 Feb 15 05:00	14° \approx 46'27	
max. Earth dist.	9723 Nov 07 14:33	22° \mathfrak{M} 38'52 10.31059 AU		9730 Feb 17 01:15	15° \approx	
morning rise	9723 Nov 25 12:25	24° \mathfrak{M} 53'37	retrograde	9730 May 27 14:26	22° \approx 23'20	
	9724 Jan 10 22:43	0° \mathfrak{Z}	opposition	9730 Aug 03 01:01	19° \approx 01'17	1°34'53
retrograde	9724 Mar 08 17:09	2° \mathfrak{Z} 47'57	min. Earth dist.	9730 Aug 03 07:29	19° \approx 00'00	8.43516 AU
	9724 May 07 07:25	30° \mathfrak{R} \mathfrak{M}	direct	9730 Oct 11 08:35	15° \approx 34'40	
opposition	9724 May 15 05:17	29° \mathfrak{M} 21'55 2°03'59	evening set	9731 Jan 24 19:29	23° \approx 25'05	
min. Earth dist.	9724 May 15 07:03	29° \mathfrak{M} 21'33 8.30565 AU				
direct	9724 Jul 21 20:23	25° \mathfrak{M} 55'25	conjunction	9731 Feb 11 06:26	25° \approx 35'04	1°06'09
	9724 Sep 30 19:18	0° \mathfrak{Z}	minimum elong	9731 Feb 11 06:28	25° \approx 35'05	1°06'22
evening set	9724 Nov 03 00:50	3° \mathfrak{Z} 49'39	max. Earth dist.	9731 Feb 10 22:27	25° \approx 32'34	10.45922 AU
			morning rise	9731 Feb 28 13:56	27° \approx 44'00	
conjunction	9724 Nov 20 20:41	6° \mathfrak{Z} 03'54 1°46'07		9731 Mar 19 18:42	0° \mathfrak{H}	
minimum elong	9724 Nov 20 20:39	6° \mathfrak{Z} 03'53 1°46'27	retrograde	9731 Jun 09 14:37	5° \mathfrak{H} 16'41	
max. Earth dist.	9724 Nov 20 16:37	6° \mathfrak{Z} 02'36 10.30142 AU	opposition	9731 Aug 16 08:16	1° \mathfrak{H} 55'13	1°08'15
morning rise	9724 Dec 08 16:04	8° \mathfrak{Z} 18'02	min. Earth dist.	9731 Aug 16 14:24	1° \mathfrak{H} 54'01	8.48506 AU
retrograde	9725 Mar 22 08:59	16° \mathfrak{Z} 11'09		9731 Sep 11 10:41	30° \mathfrak{R} \approx	
opposition	9725 May 28 17:07	12° \mathfrak{Z} 45'38 2°17'42	direct	9731 Oct 24 23:19	28° \approx 29'09	
min. Earth dist.	9725 May 28 20:53	12° \mathfrak{Z} 44'53 8.30240 AU		9731 Dec 06 18:45	0° \mathfrak{H}	
direct	9725 Aug 04 14:07	9° \mathfrak{Z} 18'39	evening set	9732 Feb 07 03:08	6° \mathfrak{H} 15'23	
evening set	9725 Nov 17 06:22	17° \mathfrak{Z} 15'08				
			conjunction	9732 Feb 24 11:44	8° \mathfrak{H} 24'02	0°43'16
conjunction	9725 Dec 05 01:26	19° \mathfrak{Z} 29'12 1°54'13	minimum elong	9732 Feb 24 11:45	8° \mathfrak{H} 24'03	0°43'25
minimum elong	9725 Dec 05 01:25	19° \mathfrak{Z} 29'11 1°54'35	max. Earth dist.	9732 Feb 24 04:30	8° \mathfrak{H} 21'48	10.51123 AU
max. Earth dist.	9725 Dec 04 19:07	19° \mathfrak{Z} 27'12 10.30338 AU	morning rise	9732 Mar 12 17:02	10° \mathfrak{H} 31'42	
morning rise	9725 Dec 22 19:18	21° \mathfrak{Z} 42'54	retrograde	9732 Jun 21 11:42	18° \mathfrak{H} 00'30	
retrograde	9726 Apr 04 23:42	29° \mathfrak{Z} 33'57	opposition	9732 Aug 28 13:28	14° \mathfrak{H} 39'28	0°38'34
opposition	9726 Jun 11 05:17	26° \mathfrak{Z} 09'04 2°23'55	min. Earth dist.	9732 Aug 28 18:13	14° \mathfrak{H} 38'33	8.53795 AU
min. Earth dist.	9726 Jun 11 10:24	26° \mathfrak{Z} 08'02 8.30972 AU	direct	9732 Nov 06 11:22	11° \mathfrak{H} 14'05	
direct	9726 Aug 18 08:40	22° \mathfrak{Z} 41'46	evening set	9733 Feb 19 04:56	18° \mathfrak{H} 55'39	
	9726 Nov 26 02:16	0° \mathfrak{Z}				
evening set	9726 Dec 01 10:48	0° \mathfrak{Z} 39'25	conjunction	9733 Mar 08 11:07	21° \mathfrak{H} 02'55	0°18'32
			minimum elong	9733 Mar 08 11:08	21° \mathfrak{H} 02'55	0°18'37
conjunction	9726 Dec 19 04:49	2° \mathfrak{Z} 53'05 1°56'06	max. Earth dist.	9733 Mar 08 05:55	21° \mathfrak{H} 01'19	10.56479 AU
minimum elong	9726 Dec 19 04:49	2° \mathfrak{Z} 53'05 1°56'29	morning rise	9733 Mar 25 14:05	23° \mathfrak{H} 09'15	
max. Earth dist.	9726 Dec 18 21:09	2° \mathfrak{Z} 50'39 10.31565 AU		9733 Jun 08 15:00	0° \mathfrak{Y}	
morning rise	9727 Jan 05 20:52	5° \mathfrak{Z} 06'09	retrograde	9733 Jul 04 07:43	0° \mathfrak{Y} 34'42	
retrograde	9727 Apr 18 13:27	12° \mathfrak{Z} 54'27		9733 Jul 30 08:20	30° \mathfrak{R} \mathfrak{H}	

opposition	9733 Sep 10 16:22	27° X 13'58	0°07'25	minimum elong	9739 May 20 14:30	4° II 11'08	1°45'35
min. Earth dist.	9733 Sep 10 19:23	27° X 13'23	8.59118 AU	max. Earth dist.	9739 May 20 19:40	4° II 12'42	10.78758 AU
direct	9733 Nov 19 18:26	23° X 49'21		morning rise	9739 Jun 06 08:13	6° II 12'11	
desc. node	9733 Dec 08 13:28	24° X 07'14		retrograde	9739 Sep 16 16:48	13° II 32'44	
	9734 Feb 19 21:54	0° Y		opposition	9739 Nov 25 18:26	10° II 11'52	-2°15'07
evening set	9734 Mar 04 01:33	1° Y 26'07		min. Earth dist.	9739 Nov 25 13:19	10° II 12'49	8.79282 AU
				direct	9740 Feb 03 13:16	6° II 51'37	
conjunction	9734 Mar 21 05:12	3° Y 32'02	-0°06'55	evening set	9740 May 14 23:17	14° II 08'07	
minimum elong	9734 Mar 21 05:11	3° Y 32'01	0°06'54				
behind sun begin	9734 Mar 20 22:36	3° Y 30'01		conjunction	9740 May 31 16:23	16° II 08'53	-1°53'35
behind sun end	9734 Mar 21 11:47	3° Y 34'02		minimum elong	9740 May 31 16:21	16° II 08'53	1°53'57
max. Earth dist.	9734 Mar 21 02:08	3° Y 31'07	10.61726 AU	max. Earth dist.	9740 May 31 22:07	16° II 10'38	10.79278 AU
morning rise	9734 Apr 07 05:50	5° Y 37'04		morning rise	9740 Jun 17 10:30	18° II 09'58	
retrograde	9734 Jul 17 00:29	12° Y 59'43		retrograde	9740 Sep 28 05:35	25° II 32'11	
opposition	9734 Sep 23 16:52	9° Y 39'15	-0°23'42	opposition	9740 Dec 07 11:16	22° II 10'56	-2°22'22
min. Earth dist.	9734 Sep 23 18:40	9° Y 38'54	8.64223 AU	min. Earth dist.	9740 Dec 07 05:48	22° II 11'58	8.79270 AU
direct	9734 Dec 02 20:16	6° Y 15'24		direct	9741 Feb 14 23:56	18° II 51'04	
evening set	9735 Mar 16 17:22	13° Y 47'36		evening set	9741 May 27 01:29	26° II 06'28	
conjunction	9735 Apr 02 18:20	15° Y 52'09	-0°31'39	conjunction	9741 Jun 12 18:58	28° II 07'22	-1°56'58
minimum elong	9735 Apr 02 18:19	15° Y 52'09	0°31'43	minimum elong	9741 Jun 12 18:58	28° II 07'22	1°57'21
max. Earth dist.	9735 Apr 02 16:42	15° Y 51'39	10.66620 AU	max. Earth dist.	9741 Jun 13 01:24	28° II 09'19	10.78707 AU
morning rise	9735 Apr 19 16:50	17° Y 56'01			9741 Jun 28 08:43	0° S	
retrograde	9735 Jul 29 14:14	25° Y 16'39		morning rise	9741 Jun 29 14:17	0° S 08'47	
opposition	9735 Oct 06 15:30	21° Y 56'19	-0°53'22	retrograde	9741 Oct 10 20:25	7° S 33'13	
min. Earth dist.	9735 Oct 06 16:26	21° Y 56'09	8.68879 AU	opposition	9741 Dec 20 04:01	4° S 11'29	-2°23'25
direct	9735 Dec 15 20:39	18° Y 33'18		min. Earth dist.	9741 Dec 19 21:54	4° S 12'38	8.78157 AU
evening set	9736 Mar 28 04:47	26° Y 01'13		direct	9742 Feb 27 11:35	0° S 51'49	
				evening set	9742 Jun 08 04:32	8° S 06'51	
conjunction	9736 Apr 14 03:10	28° Y 04'32	-0°54'46	conjunction	9742 Jun 24 23:19	10° S 08'15	-1°55'16
minimum elong	9736 Apr 14 03:08	28° Y 04'31	0°54'54	minimum elong	9742 Jun 24 23:20	10° S 08'15	1°55'38
max. Earth dist.	9736 Apr 14 02:27	28° Y 04'19	10.70945 AU	max. Earth dist.	9742 Jun 25 07:05	10° S 10'36	10.77060 AU
	9736 Apr 29 23:21	0° S		morning rise	9742 Jul 11 20:22	12° S 10'19	
morning rise	9736 Apr 30 23:53	0° S 07'21		retrograde	9742 Oct 23 13:38	19° S 37'23	
retrograde	9736 Aug 10 03:08	7° S 26'49		opposition	9743 Jan 01 21:02	16° S 15'05	-2°18'11
opposition	9736 Oct 18 12:15	4° S 06'31	-1°20'20	min. Earth dist.	9743 Jan 01 13:50	16° S 16'27	8.75986 AU
min. Earth dist.	9736 Oct 18 11:54	4° S 06'35	8.72876 AU	direct	9743 Mar 11 21:44	12° S 55'30	
direct	9736 Dec 27 17:13	0° S 44'18		evening set	9743 Jun 20 09:28	20° S 10'54	
evening set	9737 Apr 09 12:38	8° S 08'25					
conjunction	9737 Apr 26 08:53	10° S 10'42	-1°15'15	conjunction	9743 Jul 07 06:18	22° S 13'06	-1°48'27
minimum elong	9737 Apr 26 08:51	10° S 10'42	1°15'28	minimum elong	9743 Jul 07 06:19	22° S 13'07	1°48'48
max. Earth dist.	9737 Apr 26 09:53	10° S 11'00	10.74512 AU	max. Earth dist.	9743 Jul 07 15:15	22° S 15'50	10.74408 AU
morning rise	9737 May 13 04:08	12° S 12'41		morning rise	9743 Jul 24 05:46	24° S 16'08	
	9737 Jun 06 18:43	15° S			9743 Sep 19 10:16	0° S	
retrograde	9737 Aug 22 14:37	19° S 31'45		retrograde	9743 Nov 05 09:21	1° S 46'11	
opposition	9737 Oct 31 07:15	16° S 11'22	-1°43'30		9743 Dec 23 13:28	30° R S	
min. Earth dist.	9737 Oct 31 04:59	16° S 11'47	8.76031 AU	opposition	9744 Jan 14 14:48	28° S 23'16	-2°06'48
	9737 Nov 16 09:23	15° R S		min. Earth dist.	9744 Jan 14 07:05	28° S 24'44	8.72843 AU
direct	9738 Jan 09 10:22	12° S 49'54		direct	9744 Mar 23 08:23	25° S 03'33	
	9738 Mar 02 09:32	15° S			9744 Jun 11 08:35	0° S	
evening set	9738 Apr 21 17:44	20° S 10'50		evening set	9744 Jul 01 17:10	2° S 20'05	
conjunction	9738 May 08 12:25	22° S 12'19	-1°32'18	conjunction	9744 Jul 18 16:35	4° S 23'23	-1°36'45
minimum elong	9738 May 08 12:23	22° S 12'19	1°32'35	minimum elong	9744 Jul 18 16:37	4° S 23'24	1°37'04
max. Earth dist.	9738 May 08 15:40	22° S 13'19	10.77155 AU	max. Earth dist.	9744 Jul 19 01:11	4° S 26'00	10.70842 AU
morning rise	9738 May 25 06:35	24° S 13'42		morning rise	9744 Aug 04 19:10	6° S 27'38	
	9738 Jul 22 14:27	0° II		retrograde	9744 Nov 17 08:30	14° S 00'52	
retrograde	9738 Sep 04 03:19	1° II 33'10		opposition	9745 Jan 26 09:35	10° S 37'18	-1°49'36
	9738 Oct 18 23:29	30° R S		min. Earth dist.	9745 Jan 26 02:35	10° S 38'39	8.68822 AU
opposition	9738 Nov 13 01:11	28° S 12'34	-2°02'00	direct	9745 Apr 04 19:32	7° S 17'15	
min. Earth dist.	9738 Nov 12 21:05	28° S 13'21	8.78194 AU	evening set	9745 Jul 14 04:37	14° S 35'43	
direct	9739 Jan 22 01:42	24° S 51'48			9745 Jul 17 13:28	15° S	
	9739 Apr 14 22:23	0° II					
evening set	9739 May 03 20:57	2° II 10'09		conjunction	9745 Jul 31 07:04	16° S 40'21	-1°20'33
				minimum elong	9745 Jul 31 07:07	16° S 40'22	1°20'49
conjunction	9739 May 20 14:32	4° II 11'08	-1°45'15	max. Earth dist.	9745 Jul 31 14:19	16° S 42'34	10.66451 AU

morning rise	9745 Aug 17 13:11	18° Ω 46'02	evening set	9751 Sep 30 15:46	1° \mathbb{M} .15'04	
retrograde	9745 Nov 30 08:42	26° Ω 22'36				
opposition	9746 Feb 08 05:36	22° Ω 58'24 -1°27'12	conjunction	9751 Oct 18 10:59	3° \mathbb{M} .28'14	1°03'35
min. Earth dist.	9746 Feb 07 23:57	22° Ω 59'30 8.64023 AU	minimum elong	9751 Oct 18 10:57	3° \mathbb{M} .28'14	1°03'46
direct	9746 Apr 17 08:57	19° Ω 37'48	max. Earth dist.	9751 Oct 18 09:37	3° \mathbb{M} .27'49	10.35506 AU
evening set	9746 Jul 26 20:27	26° Ω 59'06	morning rise	9751 Nov 05 07:56	5° \mathbb{M} .41'56	
			retrograde	9752 Feb 18 00:05	13° \mathbb{M} .35'19	
conjunction	9746 Aug 13 02:22	29° Ω 05'15 -1°00'27	opposition	9752 Apr 25 23:06	10° \mathbb{M} .08'42	1°32'20
minimum elong	9746 Aug 13 02:24	29° Ω 05'16 1°00'41	min. Earth dist.	9752 Apr 26 00:31	10° \mathbb{M} .08'25	8.33818 AU
max. Earth dist.	9746 Aug 13 08:29	29° Ω 07'08 10.61358 AU	direct	9752 Jul 02 10:38	6° \mathbb{M} .42'56	
	9746 Aug 20 12:55	0° \mathbb{M}	evening set	9752 Oct 13 16:01	14° \mathbb{M} .31'17	
morning rise	9746 Aug 30 12:02	1° \mathbb{M} 12'30		9752 Oct 17 12:52	15° \mathbb{M}	
retrograde	9746 Dec 13 11:37	8° \mathbb{M} 52'37				
opposition	9747 Feb 21 03:26	5° \mathbb{M} 27'46 -1°00'27	conjunction	9752 Oct 31 12:04	16° \mathbb{M} .45'08	1°24'13
min. Earth dist.	9747 Feb 20 22:41	5° \mathbb{M} 28'42 8.58630 AU	minimum elong	9752 Oct 31 12:02	16° \mathbb{M} .45'07	1°24'28
direct	9747 Apr 30 02:02	2° \mathbb{M} 06'31	max. Earth dist.	9752 Oct 31 09:16	16° \mathbb{M} .44'15	10.32292 AU
evening set	9747 Aug 08 17:23	9° \mathbb{M} 31'23	morning rise	9752 Nov 18 08:54	18° \mathbb{M} .59'16	
			retrograde	9753 Mar 02 15:53	26° \mathbb{M} .53'12	
conjunction	9747 Aug 26 02:55	11° \mathbb{M} 39'11 -0°37'17	opposition	9753 May 09 08:43	23° \mathbb{M} .26'44	1°55'22
minimum elong	9747 Aug 26 02:56	11° \mathbb{M} 39'11 0°37'26	min. Earth dist.	9753 May 09 11:03	23° \mathbb{M} .26'15	8.31194 AU
max. Earth dist.	9747 Aug 26 08:36	11° \mathbb{M} 40'56 10.55805 AU	direct	9753 Jul 16 00:07	20° \mathbb{M} .00'11	
morning rise	9747 Sep 12 15:57	13° \mathbb{M} 48'03	evening set	9753 Oct 27 19:10	27° \mathbb{M} .52'29	
retrograde	9747 Dec 26 19:08	21° \mathbb{M} 31'41		9753 Nov 13 18:10	0° \mathbb{A}	
opposition	9748 Mar 05 03:11	18° \mathbb{M} 06'14 -0°30'27				
min. Earth dist.	9748 Mar 04 22:54	18° \mathbb{M} 07'05 8.52951 AU	conjunction	9753 Nov 14 15:19	0° \mathbb{A} 06'41	1°40'25
direct	9748 May 11 20:53	14° \mathbb{M} 44'12	minimum elong	9753 Nov 14 15:17	0° \mathbb{A} 06'40	1°40'45
evening set	9748 Aug 20 20:21	22° \mathbb{M} 13'17	max. Earth dist.	9753 Nov 14 11:32	0° \mathbb{A} 05'29	10.30219 AU
			morning rise	9753 Dec 02 11:16	2° \mathbb{A} 20'53	
conjunction	9748 Sep 07 09:11	24° \mathbb{M} 22'42 -0°12'04	retrograde	9754 Mar 16 08:04	10° \mathbb{A} 14'28	
minimum elong	9748 Sep 07 09:11	24° \mathbb{M} 22'42 0°12'08	opposition	9754 May 22 19:35	6° \mathbb{A} 48'17	2°12'18
behind sun begin	9748 Sep 07 04:22	24° \mathbb{M} 21'13	min. Earth dist.	9754 May 22 22:38	6° \mathbb{A} 47'40	8.29769 AU
behind sun end	9748 Sep 07 14:01	24° \mathbb{M} 24'11	direct	9754 Jul 29 15:15	3° \mathbb{A} 21'06	
max. Earth dist.	9748 Sep 07 13:52	24° \mathbb{M} 24'08 10.50126 AU	evening set	9754 Nov 10 23:59	11° \mathbb{A} 16'26	
morning rise	9748 Sep 25 01:11	26° \mathbb{M} 33'07				
	9748 Oct 25 08:23	0° \mathbb{A}	conjunction	9754 Nov 28 19:40	13° \mathbb{A} 30'40	1°51'15
retrograde	9749 Jan 08 06:12	4° \mathbb{A} 19'59	minimum elong	9754 Nov 28 19:39	13° \mathbb{A} 30'40	1°51'37
asc. node	9749 Mar 01 08:00	2° \mathbb{A} 12'01	max. Earth dist.	9754 Nov 28 14:40	13° \mathbb{A} 29'05	10.29398 AU
opposition	9749 Mar 18 04:54	0° \mathbb{A} 54'02 0°01'27	morning rise	9754 Dec 16 14:14	15° \mathbb{A} 44'38	
min. Earth dist.	9749 Mar 18 01:30	0° \mathbb{A} 54'42 8.47331 AU	retrograde	9755 Mar 30 00:22	23° \mathbb{A} 36'48	
	9749 Mar 29 17:34	30° \mathbb{R} \mathbb{M}	opposition	9755 Jun 05 07:11	20° \mathbb{A} 11'06	2°22'04
direct	9749 May 24 17:48	27° \mathbb{M} 31'05	min. Earth dist.	9755 Jun 05 11:28	20° \mathbb{A} 10'14	8.29615 AU
	9749 Jul 17 20:51	0° \mathbb{A}	direct	9755 Aug 12 07:28	16° \mathbb{A} 43'26	
evening set	9749 Sep 03 05:17	5° \mathbb{A} 04'54	evening set	9755 Nov 25 04:54	24° \mathbb{A} 40'40	
conjunction	9749 Sep 20 20:52	7° \mathbb{A} 15'47 0°14'07	conjunction	9755 Dec 12 23:35	26° \mathbb{A} 54'38	1°56'03
minimum elong	9749 Sep 20 20:52	7° \mathbb{A} 15'47 0°14'08	minimum elong	9755 Dec 12 23:34	26° \mathbb{A} 54'38	1°56'26
behind sun begin	9749 Sep 20 17:27	7° \mathbb{A} 14'44	max. Earth dist.	9755 Dec 12 16:55	26° \mathbb{A} 52'32	10.29873 AU
behind sun end	9749 Sep 21 00:17	7° \mathbb{A} 16'50	morning rise	9755 Dec 30 16:27	29° \mathbb{A} 08'06	
max. Earth dist.	9749 Sep 20 23:45	7° \mathbb{A} 16'41 10.44656 AU		9756 Jan 06 17:50	0° \mathbb{B}	
morning rise	9749 Oct 08 15:17	9° \mathbb{A} 27'35	retrograde	9756 Apr 11 15:19	6° \mathbb{B} 57'53	
retrograde	9750 Jan 21 18:08	17° \mathbb{A} 17'16	opposition	9756 Jun 17 19:11	3° \mathbb{B} 32'49	2°24'08
opposition	9750 Mar 31 08:59	13° \mathbb{A} 50'56 0°33'42	min. Earth dist.	9756 Jun 18 00:45	3° \mathbb{B} 31'42	8.30736 AU
min. Earth dist.	9750 Mar 31 07:06	13° \mathbb{A} 51'18 8.42089 AU	direct	9756 Aug 25 01:45	0° \mathbb{B} 04'54	
direct	9750 Jun 06 19:57	10° \mathbb{A} 27'02	evening set	9756 Dec 08 08:07	8° \mathbb{B} 02'45	
evening set	9750 Sep 16 19:50	18° \mathbb{A} 05'48				
			conjunction	9756 Dec 26 01:25	10° \mathbb{B} 16'10	1°54'34
conjunction	9750 Oct 04 13:33	20° \mathbb{A} 17'58 0°39'46	minimum elong	9756 Dec 26 01:25	10° \mathbb{B} 16'10	1°54'57
minimum elong	9750 Oct 04 13:31	20° \mathbb{A} 17'57 0°39'52	max. Earth dist.	9756 Dec 25 17:28	10° \mathbb{B} 13'39	10.31618 AU
max. Earth dist.	9750 Oct 04 14:05	20° \mathbb{A} 18'08 10.39696 AU	morning rise	9757 Jan 12 16:23	12° \mathbb{B} 28'54	
morning rise	9750 Oct 22 09:40	22° \mathbb{A} 30'52	retrograde	9757 Apr 25 01:59	20° \mathbb{B} 15'31	
	9751 Jan 14 12:59	0° \mathbb{M}	opposition	9757 Jul 01 06:56	16° \mathbb{B} 51'12	2°18'25
retrograde	9751 Feb 04 08:11	0° \mathbb{M} .22'48	min. Earth dist.	9757 Jul 01 13:14	16° \mathbb{B} 49'56	8.33078 AU
	9751 Feb 25 04:07	30° \mathbb{R} \mathbb{A}	direct	9757 Sep 07 21:54	13° \mathbb{B} 23'18	
opposition	9751 Apr 13 15:12	26° \mathbb{A} 56'14 1°04'34	evening set	9757 Dec 22 08:23	21° \mathbb{B} 20'26	
min. Earth dist.	9751 Apr 13 15:12	26° \mathbb{A} 56'14 8.37508 AU				
direct	9751 Jun 20 01:43	23° \mathbb{A} 31'22	conjunction	9758 Jan 09 00:07	23° \mathbb{B} 33'05	1°46'59
	9751 Sep 20 07:11	0° \mathbb{M}	minimum elong	9758 Jan 09 00:09	23° \mathbb{B} 33'05	1°47'20

max. Earth dist.	9758 Jan 08 15:34	23° Z 30'23	10.34552 AU	evening set	9764 Mar 10 05:10	8° Y 17'46	
morning rise	9758 Jan 26 13:07	25° Z 44'54					
	9758 Mar 05 02:54	0° \approx		conjunction	9764 Mar 27 07:18	10° Y 22'54	-0°20'11
retrograde	9758 May 08 10:34	3° \approx 27'47		minimum elong	9764 Mar 27 07:17	10° Y 22'54	0°20'14
opposition	9758 Jul 14 17:46	0° \approx 04'16	2°05'23	max. Earth dist.	9764 Mar 27 04:44	10° Y 22'07	10.65133 AU
min. Earth dist.	9758 Jul 14 23:58	0° \approx 03'01	8.36521 AU	morning rise	9764 Apr 13 06:54	12° Y 27'17	
	9758 Jul 15 15:09	30° R Z		retrograde	9764 Jul 23 02:50	19° Y 48'52	
direct	9758 Sep 21 16:42	26° Z 36'39		opposition	9764 Sep 29 23:59	16° Y 28'58	-0°39'43
	9758 Nov 25 15:55	0° \approx		min. Earth dist.	9764 Sep 30 00:44	16° Y 28'49	8.67610 AU
evening set	9759 Jan 05 04:35	4° \approx 31'47		direct	9764 Dec 09 05:09	13° Y 06'05	
				evening set	9765 Mar 22 18:51	20° Y 36'00	
conjunction	9759 Jan 22 18:40	6° \approx 43'30	1°33'48				
minimum elong	9759 Jan 22 18:42	6° \approx 43'30	1°34'07	conjunction	9765 Apr 08 18:32	22° Y 39'51	-0°44'12
max. Earth dist.	9759 Jan 22 10:39	6° \approx 40'58	10.38511 AU	minimum elong	9765 Apr 08 18:30	22° Y 39'51	0°44'19
morning rise	9759 Feb 09 05:32	8° \approx 54'14		max. Earth dist.	9765 Apr 08 18:06	22° Y 39'43	10.69906 AU
	9759 Apr 09 16:46	15° \approx		morning rise	9765 Apr 25 16:01	24° Y 43'06	
retrograde	9759 May 21 17:23	16° \approx 33'02			9765 Jun 15 20:43	0° Z	
	9759 Jul 03 17:10	15° R \approx		retrograde	9765 Aug 04 17:57	2° Z 03'05	
opposition	9759 Jul 28 03:26	13° \approx 10'20	1°45'55		9765 Sep 25 14:26	30° R Y	
min. Earth dist.	9759 Jul 28 08:53	13° \approx 09'15	8.40871 AU	opposition	9765 Oct 12 21:51	28° Y 43'17	-1°08'05
direct	9759 Oct 05 09:16	9° \approx 43'14		min. Earth dist.	9765 Oct 12 21:14	28° Y 43'23	8.72012 AU
	9759 Dec 27 19:30	15° \approx		direct	9765 Dec 22 02:25	25° Y 21'14	
evening set	9760 Jan 18 20:05	17° \approx 35'21			9766 Mar 10 15:44	0° Z	
				evening set	9766 Apr 04 04:49	2° Z 47'06	
conjunction	9760 Feb 05 08:13	19° \approx 45'56	1°15'53				
minimum elong	9760 Feb 05 08:16	19° \approx 45'56	1°16'08	conjunction	9766 Apr 21 02:09	4° Z 49'49	-1°06'02
max. Earth dist.	9760 Feb 05 01:26	19° \approx 43'48	10.43268 AU	minimum elong	9766 Apr 21 02:07	4° Z 49'49	1°06'13
morning rise	9760 Feb 22 16:47	21° \approx 55'28		max. Earth dist.	9766 Apr 21 02:55	4° Z 50'03	10.73818 AU
retrograde	9760 Jun 02 20:53	29° \approx 30'07		morning rise	9766 May 07 21:53	6° Z 52'07	
opposition	9760 Aug 09 11:33	26° \approx 08'12	1°21'13	retrograde	9766 Aug 17 06:33	14° Z 11'21	
min. Earth dist.	9760 Aug 09 16:23	26° \approx 07'15	8.45902 AU	opposition	9766 Oct 25 17:57	10° Z 51'31	-1°33'08
direct	9760 Oct 17 23:41	22° \approx 41'48		min. Earth dist.	9766 Oct 25 16:58	10° Z 51'42	8.75437 AU
	9761 Jan 27 03:12	0° X		direct	9767 Jan 03 20:31	7° Z 30'12	
evening set	9761 Jan 31 06:21	0° X 30'03		evening set	9767 Apr 16 11:43	14° Z 52'43	
					9767 Apr 17 12:09	15° Z	
conjunction	9761 Feb 17 16:16	2° X 39'22	0°54'18				
minimum elong	9761 Feb 17 16:17	2° X 39'23	0°54'30	conjunction	9767 May 03 07:00	16° Z 54'33	-1°24'46
max. Earth dist.	9761 Feb 17 10:33	2° X 37'36	10.48582 AU	minimum elong	9767 May 03 06:58	16° Z 54'32	1°25'01
morning rise	9761 Mar 06 22:31	4° X 47'38		max. Earth dist.	9767 May 03 08:04	16° Z 54'52	10.76655 AU
retrograde	9761 Jun 15 21:01	12° X 18'17		morning rise	9767 May 20 01:34	18° Z 56'10	
opposition	9761 Aug 22 17:52	8° X 57'05	0°52'46	retrograde	9767 Aug 29 18:48	26° Z 15'34	
min. Earth dist.	9761 Aug 22 22:18	8° X 56'14	8.51370 AU	opposition	9767 Nov 07 13:01	22° Z 55'34	-1°53'55
direct	9761 Oct 31 11:36	5° X 31'30		min. Earth dist.	9767 Nov 07 11:25	22° Z 55'52	8.77733 AU
evening set	9762 Feb 13 11:09	13° X 15'20		direct	9768 Jan 16 13:43	19° Z 34'51	
				evening set	9768 Apr 27 16:13	26° Z 54'41	
conjunction	9762 Mar 02 18:34	15° X 23'17	0°30'17				
minimum elong	9762 Mar 02 18:35	15° X 23'18	0°30'23	conjunction	9768 May 14 10:06	28° Z 55'54	-1°39'41
max. Earth dist.	9762 Mar 02 13:30	15° X 21'43	10.54186 AU	minimum elong	9768 May 14 10:04	28° Z 55'54	1°40'00
morning rise	9762 Mar 19 22:37	17° X 30'15		max. Earth dist.	9768 May 14 12:09	28° Z 56'32	10.78343 AU
retrograde	9762 Jun 28 18:00	24° X 57'16			9768 May 23 05:32	0° II	
opposition	9762 Sep 04 22:06	21° X 36'40	0°22'06	morning rise	9768 May 31 04:04	0° II 57'08	
min. Earth dist.	9762 Sep 05 02:04	21° X 35'54	8.56998 AU	retrograde	9768 Sep 10 07:21	8° II 17'29	
direct	9762 Nov 13 20:12	18° X 11'57		opposition	9768 Nov 19 07:06	4° II 57'06	-2°09'38
evening set	9763 Feb 26 10:43	25° X 51'07		min. Earth dist.	9768 Nov 19 04:14	4° II 57'38	8.78872 AU
				direct	9769 Jan 28 03:54	1° II 36'51	
conjunction	9763 Mar 15 15:27	27° X 57'39	0°05'06	evening set	9769 May 09 19:23	8° II 54'38	
minimum elong	9763 Mar 15 15:28	27° X 57'39	0°05'08				
behind sun begin	9763 Mar 15 08:34	27° X 55'33		conjunction	9769 May 26 12:41	10° II 55'33	-1°50'13
behind sun end	9763 Mar 15 22:21	27° X 59'45		minimum elong	9769 May 26 12:40	10° II 55'33	1°50'35
max. Earth dist.	9763 Mar 15 11:07	27° X 56'21	10.59797 AU	max. Earth dist.	9769 May 26 16:42	10° II 56'46	10.78879 AU
morning rise	9763 Apr 01 17:18	0° Y 03'19		morning rise	9769 Jun 12 06:35	12° II 56'41	
	9763 Apr 01 06:21	0° Y		retrograde	9769 Sep 22 20:27	20° II 18'35	
desc. node	9763 May 29 23:31	5° Y 54'58		opposition	9769 Dec 02 00:23	16° II 57'39	-2°19'40
retrograde	9763 Jul 11 11:01	7° Y 27'15		min. Earth dist.	9769 Dec 01 19:51	16° II 58'30	8.78852 AU
opposition	9763 Sep 18 00:04	4° Y 07'05	-0°09'13	direct	9770 Feb 09 16:43	13° II 37'41	
min. Earth dist.	9763 Sep 18 02:40	4° Y 06'35	8.62505 AU	evening set	9770 May 21 22:06	20° II 54'08	
direct	9763 Nov 27 02:04	0° Y 43'17					

conjunction	9770 Jun 07 15:31	22° <u>II</u> 55'05	-1°55'57		9776 Jun 25 11:36	0° <u>II</u>	
minimum elong	9770 Jun 07 15:30	22° <u>II</u> 55'05	1°56'19	evening set	9776 Aug 02 07:24	4° <u>II</u> 09'49	
max. Earth dist.	9770 Jun 07 21:07	22° <u>II</u> 56'48	10.78276 AU				
morning rise	9770 Jun 24 10:05	24° <u>II</u> 56'26		conjunction	9776 Aug 19 15:22	6° <u>II</u> 17'11	-0°47'57
	9770 Aug 12 04:51	0° <u>III</u>		minimum elong	9776 Aug 19 15:24	6° <u>II</u> 17'11	0°48'09
retrograde	9770 Oct 05 12:33	2° <u>III</u> 20'25		max. Earth dist.	9776 Aug 19 21:35	6° <u>II</u> 19'06	10.55757 AU
	9770 Dec 01 00:53	30° <u>R</u> <u>II</u>		morning rise	9776 Sep 06 03:03	8° <u>II</u> 25'39	
opposition	9770 Dec 14 17:41	28° <u>II</u> 58'50	-2°23'38	retrograde	9776 Dec 20 05:51	16° <u>II</u> 08'41	
min. Earth dist.	9770 Dec 14 12:15	28° <u>II</u> 59'51	8.77704 AU	opposition	9777 Feb 27 16:41	12° <u>II</u> 42'47	-0°44'10
direct	9771 Feb 22 04:12	25° <u>II</u> 38'57		min. Earth dist.	9777 Feb 27 11:50	12° <u>II</u> 43'44	8.53054 AU
	9771 May 08 04:15	0° <u>III</u>		direct	9777 May 06 11:35	9° <u>II</u> 20'25	
evening set	9771 Jun 03 01:06	2° <u>III</u> 54'44		evening set	9777 Aug 15 08:07	16° <u>II</u> 48'29	
conjunction	9771 Jun 19 19:16	4° <u>III</u> 56'03	-1°56'36	conjunction	9777 Sep 01 19:25	18° <u>II</u> 57'27	-0°23'28
minimum elong	9771 Jun 19 19:16	4° <u>III</u> 56'03	1°56'59	minimum elong	9777 Sep 01 19:26	18° <u>II</u> 57'27	0°23'35
max. Earth dist.	9771 Jun 20 01:28	4° <u>III</u> 57'56	10.76588 AU	max. Earth dist.	9777 Sep 02 00:20	18° <u>II</u> 58'58	10.50352 AU
morning rise	9771 Jul 06 15:25	6° <u>III</u> 57'58		morning rise	9777 Sep 19 10:22	21° <u>II</u> 07'29	
retrograde	9771 Oct 18 04:53	14° <u>III</u> 24'29		retrograde	9778 Jan 02 14:45	28° <u>II</u> 53'50	
opposition	9771 Dec 27 11:12	11° <u>III</u> 02'10	-2°21'19	opposition	9778 Mar 12 18:09	25° <u>II</u> 27'29	-0°12'52
min. Earth dist.	9771 Dec 27 05:34	11° <u>III</u> 03'14	8.75499 AU	min. Earth dist.	9778 Mar 12 14:26	25° <u>II</u> 28'13	8.47678 AU
direct	9772 Mar 05 13:48	7° <u>III</u> 42'12		direct	9778 May 19 08:42	22° <u>II</u> 04'22	
evening set	9772 Jun 14 05:32	14° <u>III</u> 58'07		asc. node	9778 Aug 10 05:18	27° <u>II</u> 26'57	
				evening set	9778 Aug 28 14:44	29° <u>II</u> 36'54	
conjunction	9772 Jul 01 01:18	17° <u>III</u> 00'07	-1°52'07		9778 Aug 31 18:24	0° <u>III</u>	
minimum elong	9772 Jul 01 01:19	17° <u>III</u> 00'07	1°52'29	conjunction	9778 Sep 15 05:10	1° <u>III</u> 47'23	0°02'32
max. Earth dist.	9772 Jul 01 07:35	17° <u>III</u> 02'02	10.73903 AU	minimum elong	9778 Sep 15 05:09	1° <u>III</u> 47'23	0°02'31
morning rise	9772 Jul 17 23:48	19° <u>III</u> 02'54		behind sun begin	9778 Sep 14 21:56	1° <u>III</u> 45'10	
retrograde	9772 Oct 29 22:08	26° <u>III</u> 32'20		behind sun end	9778 Sep 15 12:22	1° <u>III</u> 49'36	
opposition	9773 Jan 08 05:01	23° <u>III</u> 09'14	-2°12'44	max. Earth dist.	9778 Sep 15 09:14	1° <u>III</u> 48'37	10.45103 AU
min. Earth dist.	9773 Jan 07 23:24	23° <u>III</u> 10'19	8.72333 AU	morning rise	9778 Oct 02 22:46	3° <u>III</u> 58'51	
direct	9773 Mar 18 01:52	19° <u>III</u> 49'01		retrograde	9779 Jan 16 01:44	11° <u>III</u> 48'12	
evening set	9773 Jun 26 12:12	27° <u>III</u> 05'51		opposition	9779 Mar 25 21:49	8° <u>III</u> 21'32	0°19'29
conjunction	9773 Jul 13 10:26	29° <u>III</u> 08'53	-1°42'36	min. Earth dist.	9779 Mar 25 18:49	8° <u>III</u> 22'08	8.42615 AU
minimum elong	9773 Jul 13 10:28	29° <u>III</u> 08'53	1°42'57	direct	9779 Jun 01 10:26	4° <u>III</u> 57'41	
max. Earth dist.	9773 Jul 13 17:32	29° <u>III</u> 11'02	10.70320 AU	evening set	9779 Sep 11 03:20	12° <u>III</u> 35'01	
	9773 Jul 20 10:13	0° <u>III</u>		conjunction	9779 Sep 28 20:23	14° <u>III</u> 46'52	0°28'33
morning rise	9773 Jul 30 11:46	1° <u>III</u> 12'49		minimum elong	9779 Sep 28 20:22	14° <u>III</u> 46'52	0°28'37
retrograde	9773 Nov 11 19:27	8° <u>III</u> 45'28		max. Earth dist.	9779 Sep 28 23:45	14° <u>III</u> 47'55	10.40286 AU
opposition	9774 Jan 20 23:43	5° <u>III</u> 21'34	-1°58'06	morning rise	9779 Oct 16 15:54	16° <u>III</u> 59'32	
min. Earth dist.	9774 Jan 20 17:31	5° <u>III</u> 22'46	8.68322 AU	retrograde	9780 Jan 29 16:43	24° <u>III</u> 51'23	
direct	9774 Mar 30 14:28	2° <u>III</u> 01'00		opposition	9780 Apr 07 03:39	21° <u>III</u> 24'37	0°51'12
evening set	9774 Jul 08 22:04	9° <u>III</u> 19'29		min. Earth dist.	9780 Apr 07 01:17	21° <u>III</u> 25'05	8.38127 AU
conjunction	9774 Jul 25 23:18	11° <u>III</u> 23'48	-1°28'21	direct	9780 Jun 13 14:11	18° <u>III</u> 00'01	
minimum elong	9774 Jul 25 23:21	11° <u>III</u> 23'48	1°28'40	evening set	9780 Sep 23 21:49	25° <u>III</u> 42'17	
max. Earth dist.	9774 Jul 26 07:12	11° <u>III</u> 26'13	10.65971 AU	conjunction	9780 Oct 11 16:38	27° <u>III</u> 55'14	0°53'22
morning rise	9774 Aug 12 03:49	13° <u>III</u> 29'06		minimum elong	9780 Oct 11 16:36	27° <u>III</u> 55'14	0°53'32
	9774 Aug 25 02:13	15° <u>III</u>		max. Earth dist.	9780 Oct 11 18:30	27° <u>III</u> 55'49	10.36154 AU
retrograde	9774 Nov 24 20:15	21° <u>III</u> 05'11			9780 Oct 28 08:34	0° <u>III</u>	
opposition	9775 Feb 02 19:42	17° <u>III</u> 40'33	-1°37'55	morning rise	9780 Oct 29 13:13	0° <u>III</u> 08'48	
min. Earth dist.	9775 Feb 02 13:05	17° <u>III</u> 41'49	8.63626 AU	retrograde	9781 Feb 11 09:57	8° <u>III</u> 02'26	
	9775 Mar 14 23:12	15° <u>R</u> <u>III</u>		opposition	9781 Apr 20 11:32	4° <u>III</u> 35'45	1°20'34
direct	9775 Apr 12 02:50	14° <u>III</u> 19'30		min. Earth dist.	9781 Apr 20 10:31	4° <u>III</u> 35'57	8.34460 AU
	9775 May 09 21:58	15° <u>III</u>		direct	9781 Jun 26 21:06	1° <u>III</u> 10'26	
evening set	9775 Jul 21 12:14	21° <u>III</u> 40'26		evening set	9781 Oct 07 21:10	8° <u>III</u> 57'29	
conjunction	9775 Aug 07 16:48	23° <u>III</u> 46'13	-1°09'54	conjunction	9781 Oct 25 16:57	11° <u>III</u> 11'13	1°15'34
minimum elong	9775 Aug 07 16:50	23° <u>III</u> 46'13	1°10'10	minimum elong	9781 Oct 25 16:55	11° <u>III</u> 11'12	1°15'49
max. Earth dist.	9775 Aug 08 00:30	23° <u>III</u> 48'34	10.61044 AU	max. Earth dist.	9781 Oct 25 16:38	11° <u>III</u> 11'07	10.32946 AU
morning rise	9775 Aug 25 00:50	25° <u>III</u> 53'03		morning rise	9781 Nov 12 13:49	13° <u>III</u> 25'21	
	9775 Oct 01 09:45	0° <u>III</u>			9781 Nov 25 15:32	15° <u>III</u>	
retrograde	9775 Dec 07 23:19	3° <u>III</u> 32'39		retrograde	9782 Feb 25 03:22	21° <u>III</u> 19'52	
opposition	9776 Feb 15 17:14	0° <u>III</u> 07'19	-1°12'57	opposition	9782 May 03 21:23	17° <u>III</u> 53'27	1°45'52
min. Earth dist.	9776 Feb 15 11:02	0° <u>III</u> 08'31	8.58459 AU	min. Earth dist.	9782 May 03 22:08	17° <u>III</u> 53'18	8.31820 AU
	9776 Feb 17 06:45	30° <u>R</u> <u>III</u>			9782 Jun 15 17:35	15° <u>R</u> <u>III</u>	
direct	9776 Apr 23 18:00	26° <u>III</u> 45'39					

direct	9782 Jul 10 09:15	14° \mathbb{M} 27'29		min. Earth dist.	9788 Jul 22 02:52	7° \approx 51'57	8.39032 AU
	9782 Aug 03 23:22	15° \mathbb{M}		direct	9788 Sep 28 20:26	4° \approx 26'21	
evening set	9782 Oct 22 00:04	22° \mathbb{M} 18'45		evening set	9789 Jan 12 10:38	12° \approx 20'20	
conjunction	9782 Nov 08 20:10	24° \mathbb{M} 32'56	1°33'50	conjunction	9789 Jan 29 23:34	14° \approx 31'30	1°23'47
minimum elong	9782 Nov 08 20:07	24° \mathbb{M} 32'55	1°34'09	minimum elong	9789 Jan 29 23:36	14° \approx 31'31	1°24'04
max. Earth dist.	9782 Nov 08 17:35	24° \mathbb{M} 32'07	10.30837 AU	max. Earth dist.	9789 Jan 29 14:40	14° \approx 28'42	10.41081 AU
morning rise	9782 Nov 26 16:38	26° \mathbb{M} 47'15			9789 Feb 02 18:23	15° \approx	
	9782 Dec 24 02:59	0° \mathbb{A}		morning rise	9789 Feb 16 09:12	16° \approx 41'41	
retrograde	9783 Mar 10 20:01	4° \mathbb{A} 41'40		retrograde	9789 May 28 17:34	24° \approx 18'37	
opposition	9783 May 17 08:38	1° \mathbb{A} 15'41	2°05'35	opposition	9789 Aug 04 05:21	20° \approx 56'37	1°31'58
min. Earth dist.	9783 May 17 11:09	1° \mathbb{A} 15'10	8.30335 AU	min. Earth dist.	9789 Aug 04 12:04	20° \approx 55'18	8.43437 AU
	9783 Jun 02 08:50	30° \mathbb{R} \mathbb{M}		direct	9789 Oct 12 13:49	17° \approx 30'04	
direct	9783 Jul 24 00:33	27° \mathbb{M} 49'08		evening set	9790 Jan 25 23:47	25° \approx 20'35	
	9783 Sep 12 13:50	0° \mathbb{A}					
evening set	9783 Nov 05 05:19	5° \mathbb{A} 43'44		conjunction	9790 Feb 12 10:37	27° \approx 30'33	1°03'36
				minimum elong	9790 Feb 12 10:39	27° \approx 30'34	1°03'50
conjunction	9783 Nov 23 01:07	7° \mathbb{A} 58'01	1°47'05	max. Earth dist.	9790 Feb 12 02:26	27° \approx 28'00	10.45831 AU
minimum elong	9783 Nov 23 01:05	7° \mathbb{A} 58'01	1°47'27	morning rise	9790 Mar 01 18:07	29° \approx 39'31	
max. Earth dist.	9783 Nov 22 20:30	7° \mathbb{A} 56'33	10.29915 AU		9790 Mar 04 13:19	0° \mathbb{H}	
morning rise	9783 Dec 10 20:30	10° \mathbb{A} 12'11		retrograde	9790 Jun 10 18:11	7° \mathbb{H} 12'21	
retrograde	9784 Mar 23 12:32	18° \mathbb{A} 05'24		opposition	9790 Aug 17 12:48	3° \mathbb{H} 50'55	1°04'55
opposition	9784 May 29 20:34	14° \mathbb{A} 39'57	2°18'31	min. Earth dist.	9790 Aug 17 18:26	3° \mathbb{H} 49'49	8.48399 AU
min. Earth dist.	9784 May 30 00:21	14° \mathbb{A} 39'11	8.30035 AU	direct	9790 Oct 26 05:07	0° \mathbb{H} 24'55	
direct	9784 Aug 05 17:53	11° \mathbb{A} 12'56		evening set	9791 Feb 08 07:26	8° \mathbb{H} 11'14	
evening set	9784 Nov 18 10:59	19° \mathbb{A} 09'45					
conjunction	9784 Dec 06 06:04	21° \mathbb{A} 23'51	1°54'32	conjunction	9791 Feb 25 16:03	10° \mathbb{H} 19'54	0°40'26
minimum elong	9784 Dec 06 06:03	21° \mathbb{A} 23'51	1°54'55	minimum elong	9791 Feb 25 16:04	10° \mathbb{H} 19'55	0°40'35
max. Earth dist.	9784 Dec 06 00:09	21° \mathbb{A} 21'59	10.30170 AU	max. Earth dist.	9791 Feb 25 09:28	10° \mathbb{H} 17'52	10.51007 AU
morning rise	9784 Dec 23 23:48	23° \mathbb{A} 37'34		morning rise	9791 Mar 14 21:14	12° \mathbb{H} 27'34	
	9785 Feb 24 05:01	0° \mathbb{B}		retrograde	9791 Jun 23 17:28	19° \mathbb{H} 56'34	
retrograde	9785 Apr 06 03:58	1° \mathbb{B} 28'39		opposition	9791 Aug 30 18:15	16° \mathbb{H} 35'33	0°34'58
	9785 May 17 17:47	30° \mathbb{R} \mathbb{A}		min. Earth dist.	9791 Aug 30 22:22	16° \mathbb{H} 34'46	8.53663 AU
opposition	9785 Jun 12 08:57	28° \mathbb{A} 03'48	2°23'55	direct	9791 Nov 08 15:25	13° \mathbb{H} 10'15	
min. Earth dist.	9785 Jun 12 13:29	28° \mathbb{A} 02'53	8.30851 AU	evening set	9792 Feb 21 09:28	20° \mathbb{H} 51'53	
direct	9785 Aug 19 12:41	24° \mathbb{A} 36'31		conjunction	9792 Mar 09 15:35	22° \mathbb{H} 59'11	0°15'33
	9785 Nov 11 00:10	0° \mathbb{B}		minimum elong	9792 Mar 09 15:36	22° \mathbb{H} 59'11	0°15'38
evening set	9785 Dec 02 15:21	2° \mathbb{B} 34'20		behind sun begin	9792 Mar 09 13:52	22° \mathbb{H} 58'39	
				behind sun end	9792 Mar 09 17:20	22° \mathbb{H} 59'43	
conjunction	9785 Dec 20 09:22	4° \mathbb{B} 48'00	1°55'45	max. Earth dist.	9792 Mar 09 11:09	22° \mathbb{H} 57'49	10.56341 AU
minimum elong	9785 Dec 20 09:22	4° \mathbb{B} 48'00	1°56'08	morning rise	9792 Mar 26 18:21	25° \mathbb{H} 05'31	
max. Earth dist.	9785 Dec 20 02:29	4° \mathbb{B} 45'49	10.31491 AU		9792 May 11 14:28	0° \mathbb{Y}	
morning rise	9786 Jan 07 01:11	7° \mathbb{B} 01'04		retrograde	9792 Jul 05 13:02	2° \mathbb{Y} 31'10	
retrograde	9786 Apr 19 17:06	14° \mathbb{B} 49'20			9792 Sep 01 01:55	30° \mathbb{R} \mathbb{H}	
opposition	9786 Jun 25 21:11	11° \mathbb{B} 25'10	2°21'30	opposition	9792 Sep 11 21:31	29° \mathbb{H} 10'28	0°03'43
min. Earth dist.	9786 Jun 26 02:36	11° \mathbb{B} 24'05	8.32655 AU	min. Earth dist.	9792 Sep 12 00:30	29° \mathbb{H} 09'53	8.58972 AU
direct	9786 Sep 02 08:13	7° \mathbb{B} 57'48		desc. node	9792 Oct 26 07:27	26° \mathbb{H} 18'22	
evening set	9786 Dec 16 17:35	15° \mathbb{B} 55'32		direct	9792 Nov 20 22:10	25° \mathbb{H} 45'54	
					9793 Feb 03 08:42	0° \mathbb{Y}	
conjunction	9787 Jan 03 10:13	18° \mathbb{B} 08'34	1°50'43	evening set	9793 Mar 05 06:12	3° \mathbb{Y} 22'45	
minimum elong	9787 Jan 03 10:14	18° \mathbb{B} 08'35	1°51'06				
max. Earth dist.	9787 Jan 03 02:25	18° \mathbb{B} 06'07	10.33780 AU	conjunction	9793 Mar 22 09:40	5° \mathbb{Y} 28'38	-0°09'53
morning rise	9787 Jan 20 23:59	20° \mathbb{B} 20'48		minimum elong	9793 Mar 22 09:39	5° \mathbb{Y} 28'38	0°09'53
retrograde	9787 May 03 04:50	28° \mathbb{B} 05'41		behind sun begin	9793 Mar 22 03:52	5° \mathbb{Y} 26'52	
opposition	9787 Jul 09 08:53	24° \mathbb{B} 42'18	2°11'30	behind sun end	9793 Mar 22 15:26	5° \mathbb{Y} 30'24	
min. Earth dist.	9787 Jul 09 15:12	24° \mathbb{B} 41'02	8.35395 AU	max. Earth dist.	9793 Mar 22 06:37	5° \mathbb{Y} 27'43	10.61580 AU
direct	9787 Sep 16 02:29	21° \mathbb{B} 15'02		morning rise	9793 Apr 08 10:11	7° \mathbb{Y} 33'42	
evening set	9787 Dec 30 16:25	29° \mathbb{B} 11'30		retrograde	9793 Jul 18 05:12	14° \mathbb{Y} 56'34	
	9788 Jan 06 04:46	0° \approx		opposition	9793 Sep 24 22:23	11° \mathbb{Y} 36'06	-0°27'19
				min. Earth dist.	9793 Sep 25 00:33	11° \mathbb{Y} 35'41	8.64085 AU
conjunction	9788 Jan 17 07:20	1° \approx 23'42	1°39'49	direct	9793 Dec 04 02:00	8° \mathbb{Y} 12'17	
minimum elong	9788 Jan 17 07:22	1° \approx 23'43	1°40'10	evening set	9794 Mar 17 22:03	15° \mathbb{Y} 44'30	
max. Earth dist.	9788 Jan 16 22:49	1° \approx 21'01	10.37005 AU				
morning rise	9788 Feb 03 19:02	3° \approx 34'58		conjunction	9794 Apr 03 22:48	17° \mathbb{Y} 49'02	-0°34'30
retrograde	9788 May 15 13:29	11° \approx 15'59		minimum elong	9794 Apr 03 22:46	17° \mathbb{Y} 49'02	0°34'35
opposition	9788 Jul 21 19:51	7° \approx 53'20	1°54'38	max. Earth dist.	9794 Apr 03 20:45	17° \mathbb{Y} 48'25	10.66486 AU

morning rise	9794 Apr 20 21:19	19° Υ 52'54	max. Earth dist.	9800 Jun 15 06:49	0° \mathfrak{D} 06'14	10.78733 AU
retrograde	9794 Jul 30 19:31	27° Υ 13'46	morning rise	9800 Jul 01 18:58	2° \mathfrak{D} 05'28	
opposition	9794 Oct 07 21:09	23° Υ 53'24 -0°56'44	retrograde	9800 Oct 13 01:48	9° \mathfrak{D} 29'56	
min. Earth dist.	9794 Oct 07 22:05	23° Υ 53'14 8.68757 AU	opposition	9800 Dec 22 09:27	6° \mathfrak{D} 08'07 -2°22'56	
direct	9794 Dec 17 02:01	20° Υ 30'23	min. Earth dist.	9800 Dec 22 02:29	6° \mathfrak{D} 09'26 8.78194 AU	
evening set	9795 Mar 30 09:32	27° Υ 58'18	direct	9801 Mar 01 16:22	2° \mathfrak{D} 48'28	
			evening set	9801 Jun 10 08:57	10° \mathfrak{D} 03'19	
conjunction	9795 Apr 16 07:47	0° \mathfrak{S} 01'36 -0°57'21	conjunction	9801 Jun 27 03:57	12° \mathfrak{D} 04'44 -1°54'34	
minimum elong	9795 Apr 16 07:45	0° \mathfrak{S} 01'35 0°57'31	minimum elong	9801 Jun 27 03:58	12° \mathfrak{D} 04'44 1°54'56	
max. Earth dist.	9795 Apr 16 07:18	0° \mathfrak{S} 01'27 10.70828 AU	max. Earth dist.	9801 Jun 27 12:34	12° \mathfrak{D} 07'21 10.77106 AU	
	9795 Apr 16 02:34	0° \mathfrak{S}	morning rise	9801 Jul 14 01:07	14° \mathfrak{D} 06'49	
morning rise	9795 May 03 04:26	2° \mathfrak{S} 04'25	retrograde	9801 Oct 25 18:54	21° \mathfrak{D} 33'53	
retrograde	9795 Aug 12 07:43	9° \mathfrak{S} 24'05	opposition	9802 Jan 04 02:07	18° \mathfrak{D} 11'32 -2°16'57	
opposition	9795 Oct 20 17:58	6° \mathfrak{S} 03'42 -1°23'17	min. Earth dist.	9802 Jan 03 18:22	18° \mathfrak{D} 13'00 8.76039 AU	
min. Earth dist.	9795 Oct 20 16:50	6° \mathfrak{S} 03'55 8.72772 AU	direct	9802 Mar 14 02:41	14° \mathfrak{D} 51'57	
direct	9795 Dec 29 23:02	2° \mathfrak{S} 41'30	evening set	9802 Jun 22 13:54	22° \mathfrak{D} 07'12	
evening set	9796 Apr 10 17:24	10° \mathfrak{S} 05'34				
conjunction	9796 Apr 27 13:37	12° \mathfrak{S} 07'50 -1°17'27	conjunction	9802 Jul 09 10:52	24° \mathfrak{D} 09'26 -1°47'09	
minimum elong	9796 Apr 27 13:35	12° \mathfrak{S} 07'49 1°17'41	minimum elong	9802 Jul 09 10:53	24° \mathfrak{D} 09'26 1°47'31	
max. Earth dist.	9796 Apr 27 15:41	12° \mathfrak{S} 08'28 10.74416 AU	max. Earth dist.	9802 Jul 09 19:41	24° \mathfrak{D} 12'07 10.74475 AU	
morning rise	9796 May 14 08:41	14° \mathfrak{S} 09'47	morning rise	9802 Jul 26 10:36	26° \mathfrak{D} 12'29	
	9796 May 21 11:01	15° \mathfrak{S}		9802 Aug 29 22:48	0° \mathfrak{Q}	
retrograde	9796 Aug 23 20:42	21° \mathfrak{S} 29'04	retrograde	9802 Nov 07 15:15	3° \mathfrak{Q} 42'27	
opposition	9796 Nov 01 13:08	18° \mathfrak{S} 08'35 -1°45'56	opposition	9803 Jan 16 19:44	0° \mathfrak{Q} 19'32 -2°04'52	
min. Earth dist.	9796 Nov 01 10:00	18° \mathfrak{S} 09'11 8.75951 AU	min. Earth dist.	9803 Jan 16 12:16	0° \mathfrak{Q} 20'58 8.72920 AU	
	9796 Dec 25 13:31	15° \mathfrak{R} \mathfrak{S}		9803 Jan 21 02:13	30° \mathfrak{R} \mathfrak{D}	
direct	9797 Jan 10 16:44	14° \mathfrak{S} 47'09	direct	9803 Mar 26 12:30	26° \mathfrak{D} 59'49	
	9797 Jan 26 15:38	15° \mathfrak{S}		9803 May 26 07:51	0° \mathfrak{Q}	
evening set	9797 Apr 22 22:26	22° \mathfrak{S} 07'56	evening set	9803 Jul 04 21:30	4° \mathfrak{Q} 16'13	
conjunction	9797 May 09 17:03	24° \mathfrak{S} 09'25 -1°34'01	conjunction	9803 Jul 21 21:03	6° \mathfrak{Q} 19'32 -1°34'55	
minimum elong	9797 May 09 17:01	24° \mathfrak{S} 09'25 1°34'19	minimum elong	9803 Jul 21 21:05	6° \mathfrak{Q} 19'33 1°35'14	
max. Earth dist.	9797 May 09 21:04	24° \mathfrak{S} 10'38 10.77087 AU	max. Earth dist.	9803 Jul 22 05:08	6° \mathfrak{Q} 22'00 10.70946 AU	
morning rise	9797 May 26 11:07	26° \mathfrak{S} 10'47	morning rise	9803 Aug 07 23:59	8° \mathfrak{Q} 23'51	
	9797 Jun 30 08:38	0° \mathfrak{I}		9803 Oct 17 12:03	15° \mathfrak{Q}	
retrograde	9797 Sep 05 09:43	3° \mathfrak{I} 30'23	retrograde	9803 Nov 20 12:48	15° \mathfrak{Q} 56'58	
opposition	9797 Nov 14 07:07	0° \mathfrak{I} 09'44 -2°03'47		9803 Dec 24 22:38	15° \mathfrak{R} \mathfrak{Q}	
min. Earth dist.	9797 Nov 14 02:51	0° \mathfrak{I} 10'32 8.78147 AU	opposition	9804 Jan 29 14:22	12° \mathfrak{Q} 33'25 -1°47'03	
	9797 Nov 16 10:40	30° \mathfrak{R} \mathfrak{S}	min. Earth dist.	9804 Jan 29 07:45	12° \mathfrak{Q} 34'41 8.68949 AU	
direct	9798 Jan 23 05:47	26° \mathfrak{S} 48'56	direct	9804 Apr 06 23:31	9° \mathfrak{Q} 13'22	
	9798 Mar 27 22:08	0° \mathfrak{I}		9804 Jul 03 07:11	15° \mathfrak{Q}	
evening set	9798 May 05 01:44	4° \mathfrak{I} 07'10	evening set	9804 Jul 16 08:53	16° \mathfrak{Q} 31'43	
conjunction	9798 May 21 19:10	6° \mathfrak{I} 08'07 -1°46'24	conjunction	9804 Aug 02 11:37	18° \mathfrak{Q} 36'23 -1°18'16	
minimum elong	9798 May 21 19:09	6° \mathfrak{I} 08'07 1°46'45	minimum elong	9804 Aug 02 11:40	18° \mathfrak{Q} 36'24 1°18'32	
max. Earth dist.	9798 May 22 00:03	6° \mathfrak{I} 09'36 10.78725 AU	max. Earth dist.	9804 Aug 02 19:07	18° \mathfrak{Q} 38'40 10.66624 AU	
morning rise	9798 Jun 07 12:57	8° \mathfrak{I} 09'11	morning rise	9804 Aug 19 18:01	20° \mathfrak{Q} 42'06	
retrograde	9798 Sep 17 21:12	15° \mathfrak{I} 29'48	retrograde	9804 Dec 02 12:07	28° \mathfrak{Q} 18'32	
opposition	9798 Nov 27 00:13	12° \mathfrak{I} 08'52 -2°16'11	opposition	9805 Feb 10 10:05	24° \mathfrak{Q} 54'20 -1°24'09	
min. Earth dist.	9798 Nov 26 19:27	12° \mathfrak{I} 09'46 8.79269 AU	min. Earth dist.	9805 Feb 10 04:14	24° \mathfrak{Q} 55'28 8.64237 AU	
direct	9799 Feb 04 18:31	8° \mathfrak{I} 48'36	direct	9805 Apr 19 14:43	21° \mathfrak{Q} 33'45	
evening set	9799 May 17 03:57	16° \mathfrak{I} 04'59	evening set	9805 Jul 29 00:44	28° \mathfrak{Q} 54'52	
				9805 Aug 06 23:44	0° \mathfrak{I}	
conjunction	9799 Jun 02 21:01	18° \mathfrak{I} 05'45 -1°54'08	conjunction	9805 Aug 15 07:00	1° \mathfrak{I} 01'04 -0°57'50	
minimum elong	9799 Jun 02 21:00	18° \mathfrak{I} 05'44 1°54'31	minimum elong	9805 Aug 15 07:02	1° \mathfrak{I} 01'04 0°58'03	
max. Earth dist.	9799 Jun 03 02:36	18° \mathfrak{I} 07'26 10.79280 AU	max. Earth dist.	9805 Aug 15 14:03	1° \mathfrak{I} 03'13 10.61616 AU	
morning rise	9799 Jun 19 15:16	20° \mathfrak{I} 06'49	morning rise	9805 Sep 01 16:49	3° \mathfrak{I} 08'19	
retrograde	9799 Sep 30 10:35	27° \mathfrak{I} 29'06	retrograde	9805 Dec 15 16:41	10° \mathfrak{I} 48'12	
opposition	9799 Dec 09 16:56	24° \mathfrak{I} 07'47 -2°22'39	opposition	9806 Feb 23 07:33	7° \mathfrak{I} 23'22 -0°57'03	
min. Earth dist.	9799 Dec 09 11:14	24° \mathfrak{I} 08'51 8.79286 AU	min. Earth dist.	9806 Feb 23 02:11	7° \mathfrak{I} 24'24 8.58918 AU	
direct	9800 Feb 17 06:27	20° \mathfrak{I} 47'53	direct	9806 May 02 06:04	4° \mathfrak{I} 02'08	
evening set	9800 May 29 05:56	28° \mathfrak{I} 03'07	evening set	9806 Aug 10 21:43	11° \mathfrak{I} 26'49	
conjunction	9800 Jun 14 23:35	0° \mathfrak{D} 04'02 -1°56'54	conjunction	9806 Aug 28 07:26	13° \mathfrak{I} 34'37 -0°34'26	
minimum elong	9800 Jun 14 23:35	0° \mathfrak{D} 04'02 1°57'17	minimum elong	9806 Aug 28 07:28	13° \mathfrak{I} 34'37 0°34'35	
	9800 Jun 14 10:16	0° \mathfrak{D}				

max. Earth dist.	9806 Aug 28 13:28	13° \mathring{M} 36'28	10.56108 AU	direct	9812 Jul 18 03:26	21° \mathring{M} 54'42	
morning rise	9806 Sep 14 20:34	15° \mathring{M} 43'29		evening set	9812 Oct 30 00:02	29° \mathring{M} 47'08	
retrograde	9806 Dec 29 00:24	23° \mathring{M} 26'51			9812 Oct 31 17:35	0° \mathring{M}	
opposition	9807 Mar 08 07:04	20° \mathring{M} 01'26	-0°26'51				
min. Earth dist.	9807 Mar 08 02:37	20° \mathring{M} 02'19	8.53258 AU	conjunction	9812 Nov 16 20:07	2° \mathring{M} 01'19	1°41'42
direct	9807 May 14 23:38	16° \mathring{M} 39'26		minimum elong	9812 Nov 16 20:04	2° \mathring{M} 01'19	1°42'03
evening set	9807 Aug 24 00:42	24° \mathring{M} 08'25		max. Earth dist.	9812 Nov 16 16:02	2° \mathring{M} 00'02	10.30296 AU
				morning rise	9812 Dec 04 15:51	4° \mathring{M} 15'28	
conjunction	9807 Sep 10 13:35	26° \mathring{M} 17'48	-0°09'09	retrograde	9813 Mar 18 13:13	12° \mathring{M} 08'56	
minimum elong	9807 Sep 10 13:35	26° \mathring{M} 17'48	0°09'13	opposition	9813 May 24 23:09	8° \mathring{M} 42'49	2°13'30
behind sun begin	9807 Sep 10 07:31	26° \mathring{M} 15'56		min. Earth dist.	9813 May 25 02:42	8° \mathring{M} 42'06	8.29830 AU
behind sun end	9807 Sep 10 19:40	26° \mathring{M} 19'39		direct	9813 Jul 31 17:56	5° \mathring{M} 15'37	
max. Earth dist.	9807 Sep 10 17:37	26° \mathring{M} 19'01	10.50429 AU	evening set	9813 Nov 13 04:54	13° \mathring{M} 11'06	
morning rise	9807 Sep 28 05:44	28° \mathring{M} 28'12					
	9807 Oct 11 03:18	0° \mathring{M}		conjunction	9813 Dec 01 00:24	15° \mathring{M} 25'19	1°51'54
retrograde	9808 Jan 11 09:47	6° \mathring{M} 14'49		minimum elong	9813 Dec 01 00:22	15° \mathring{M} 25'18	1°52'17
asc. node	9808 Jan 21 12:03	6° \mathring{M} 09'32		max. Earth dist.	9813 Nov 30 18:24	15° \mathring{M} 23'25	10.29441 AU
opposition	9808 Mar 20 08:40	2° \mathring{M} 48'56	0°05'03	morning rise	9813 Dec 18 18:51	17° \mathring{M} 39'15	
min. Earth dist.	9808 Mar 20 05:53	2° \mathring{M} 49'29	8.47621 AU	retrograde	9814 Apr 01 04:47	25° \mathring{M} 31'17	
	9808 May 01 13:07	30° \mathring{R} \mathring{M}		opposition	9814 Jun 07 10:56	22° \mathring{M} 05'39	2°22'28
direct	9808 May 26 21:59	29° \mathring{M} 26'01		min. Earth dist.	9814 Jun 07 16:06	22° \mathring{M} 04'36	8.29648 AU
	9808 Jun 21 02:44	0° \mathring{M}		direct	9814 Aug 14 11:34	18° \mathring{M} 37'57	
evening set	9808 Sep 05 09:41	6° \mathring{M} 59'47		evening set	9814 Nov 27 09:38	26° \mathring{M} 35'19	
conjunction	9808 Sep 23 01:17	9° \mathring{M} 10'39	0°16'59	conjunction	9814 Dec 15 04:09	28° \mathring{M} 49'15	1°56'01
minimum elong	9808 Sep 23 01:17	9° \mathring{M} 10'39	0°17'00	minimum elong	9814 Dec 15 04:08	28° \mathring{M} 49'15	1°56'25
max. Earth dist.	9808 Sep 23 03:02	9° \mathring{M} 11'12	10.44929 AU	max. Earth dist.	9814 Dec 14 20:25	28° \mathring{M} 46'49	10.29894 AU
morning rise	9808 Oct 10 19:53	11° \mathring{M} 22'25			9814 Dec 24 12:14	0° \mathring{M}	
retrograde	9809 Jan 23 22:02	19° \mathring{M} 11'53		morning rise	9815 Jan 01 21:00	1° \mathring{M} 02'43	
opposition	9809 Apr 02 12:35	15° \mathring{M} 45'38	0°37'08	retrograde	9815 Apr 14 17:53	8° \mathring{M} 52'22	
min. Earth dist.	9809 Apr 02 11:37	15° \mathring{M} 45'49	8.42340 AU	opposition	9815 Jun 20 23:00	5° \mathring{M} 27'21	2°23'41
direct	9809 Jun 08 23:39	12° \mathring{M} 21'44		min. Earth dist.	9815 Jun 21 05:06	5° \mathring{M} 26'08	8.30747 AU
evening set	9809 Sep 19 00:20	20° \mathring{M} 00'32		direct	9815 Aug 28 07:17	1° \mathring{M} 59'25	
				evening set	9815 Dec 11 12:47	9° \mathring{M} 57'21	
conjunction	9809 Oct 06 18:05	22° \mathring{M} 12'40	0°42'25	conjunction	9815 Dec 29 06:00	12° \mathring{M} 10'45	1°53'53
minimum elong	9809 Oct 06 18:03	22° \mathring{M} 12'40	0°42'33	minimum elong	9815 Dec 29 06:01	12° \mathring{M} 10'45	1°54'16
max. Earth dist.	9809 Oct 06 18:01	22° \mathring{M} 12'39	10.39920 AU	max. Earth dist.	9815 Dec 28 21:32	12° \mathring{M} 08'04	10.31617 AU
morning rise	9809 Oct 24 14:13	24° \mathring{M} 25'33		morning rise	9816 Jan 15 20:57	14° \mathring{M} 23'28	
	9809 Dec 16 01:54	0° \mathring{M}		retrograde	9816 Apr 27 05:24	22° \mathring{M} 09'59	
retrograde	9810 Feb 06 12:01	2° \mathring{M} 17'16		opposition	9816 Jul 03 10:41	18° \mathring{M} 45'41	2°17'10
	9810 Apr 01 01:51	30° \mathring{R} \mathring{M}		min. Earth dist.	9816 Jul 03 16:54	18° \mathring{M} 44'26	8.33061 AU
opposition	9810 Apr 15 18:39	28° \mathring{M} 50'48	1°07'39	direct	9816 Sep 10 02:18	15° \mathring{M} 17'46	
min. Earth dist.	9810 Apr 15 19:01	28° \mathring{M} 50'43	8.37707 AU	evening set	9816 Dec 24 12:51	23° \mathring{M} 14'54	
direct	9810 Jun 22 05:34	25° \mathring{M} 25'57					
	9810 Sep 05 15:31	0° \mathring{M}		conjunction	9817 Jan 11 04:37	25° \mathring{M} 27'33	1°45'39
evening set	9810 Oct 02 20:18	3° \mathring{M} 09'44		minimum elong	9817 Jan 11 04:38	25° \mathring{M} 27'34	1°46'01
				max. Earth dist.	9817 Jan 10 20:22	25° \mathring{M} 24'57	10.34524 AU
conjunction	9810 Oct 20 15:35	5° \mathring{M} 22'52	1°05'54	morning rise	9817 Jan 28 17:28	27° \mathring{M} 39'21	
minimum elong	9810 Oct 20 15:33	5° \mathring{M} 22'51	1°06'07		9817 Feb 17 09:34	0° \mathring{M}	
max. Earth dist.	9810 Oct 20 14:22	5° \mathring{M} 22'29	10.35675 AU	retrograde	9817 May 10 14:57	5° \mathring{M} 22'09	
morning rise	9810 Nov 07 12:23	7° \mathring{M} 36'31		opposition	9817 Jul 16 21:41	1° \mathring{M} 58'37	2°03'24
	9811 Jan 27 11:31	15° \mathring{M}		min. Earth dist.	9817 Jul 17 03:21	1° \mathring{M} 57'29	8.36477 AU
retrograde	9811 Feb 20 03:12	15° \mathring{M} 29'45			9817 Aug 12 08:38	30° \mathring{R} \mathring{M}	
	9811 Mar 15 21:30	15° \mathring{R} \mathring{M}		direct	9817 Sep 23 20:33	28° \mathring{M} 31'00	
opposition	9811 Apr 29 02:32	12° \mathring{M} 03'13	1°34'56		9817 Nov 04 18:58	0° \mathring{M}	
min. Earth dist.	9811 Apr 29 03:45	12° \mathring{M} 02'58	8.33966 AU	evening set	9818 Jan 07 08:46	6° \mathring{M} 26'06	
direct	9811 Jul 05 15:26	8° \mathring{M} 37'28					
	9811 Oct 05 00:29	15° \mathring{M}		conjunction	9818 Jan 24 22:52	8° \mathring{M} 37'49	1°31'55
evening set	9811 Oct 16 20:38	16° \mathring{M} 25'55		minimum elong	9818 Jan 24 22:54	8° \mathring{M} 37'49	1°32'14
				max. Earth dist.	9818 Jan 24 15:33	8° \mathring{M} 35'31	10.38460 AU
conjunction	9811 Nov 03 16:43	18° \mathring{M} 39'45	1°26'04	morning rise	9818 Feb 11 09:32	10° \mathring{M} 48'32	
minimum elong	9811 Nov 03 16:41	18° \mathring{M} 39'44	1°26'21		9818 Mar 20 12:53	15° \mathring{M}	
max. Earth dist.	9811 Nov 03 14:12	18° \mathring{M} 38'57	10.32413 AU	retrograde	9818 May 23 21:21	18° \mathring{M} 27'18	
morning rise	9811 Nov 21 13:21	20° \mathring{M} 53'49		opposition	9818 Jul 30 07:27	15° \mathring{M} 04'34	1°43'18
retrograde	9812 Mar 04 19:46	28° \mathring{M} 47'40		min. Earth dist.	9818 Jul 30 12:49	15° \mathring{M} 03'30	8.40807 AU
opposition	9812 May 11 12:11	25° \mathring{M} 21'15	1°57'20		9818 Jul 31 06:32	15° \mathring{R} \mathring{M}	
min. Earth dist.	9812 May 11 14:24	25° \mathring{M} 20'48	8.31296 AU				

direct	9818 Oct 07 13:21	11° \approx 37'28		opposition	9824 Oct 15 02:20	0° \approx 37'44	-1°11'07
	9818 Dec 11 15:39	15° \approx		min. Earth dist.	9824 Oct 15 01:46	0° \approx 37'50	8.72061 AU
evening set	9819 Jan 21 00:08	19° \approx 29'32			9824 Oct 23 10:32	30° \approx 15'	
				direct	9824 Dec 24 05:55	27° \approx 15'45	
conjunction	9819 Feb 07 12:12	21° \approx 40'06	1°13'33		9825 Feb 21 03:33	0° \approx	
minimum elong	9819 Feb 07 12:15	21° \approx 40'07	1°13'49	evening set	9825 Apr 06 08:20	4° \approx 41'31	
max. Earth dist.	9819 Feb 07 05:29	21° \approx 38'00	10.43201 AU				
morning rise	9819 Feb 24 20:39	23° \approx 49'38		conjunction	9825 Apr 23 05:25	6° \approx 44'11	-1°08'19
	9819 Apr 26 23:24	0° \approx		minimum elong	9825 Apr 23 05:23	6° \approx 44'10	1°08'31
retrograde	9819 Jun 06 00:52	1° \approx 24'16		max. Earth dist.	9825 Apr 23 06:07	6° \approx 44'24	10.73931 AU
	9819 Jul 16 22:59	30° \approx		morning rise	9825 May 10 01:10	8° \approx 46'27	
opposition	9819 Aug 12 15:36	28° \approx 02'20	1°18'07		9825 Jul 14 05:12	15° \approx	
min. Earth dist.	9819 Aug 12 20:56	28° \approx 01'18	8.45826 AU	retrograde	9825 Aug 19 10:01	16° \approx 05'45	
direct	9819 Oct 21 03:37	24° \approx 35'55			9825 Sep 25 11:00	15° \approx	
	9820 Jan 13 23:19	0° \approx		opposition	9825 Oct 27 22:25	12° \approx 45'56	-1°35'42
evening set	9820 Feb 03 10:19	2° \approx 24'08		min. Earth dist.	9825 Oct 27 21:24	12° \approx 46'07	8.75627 AU
				direct	9826 Jan 06 01:33	9° \approx 24'39	
conjunction	9820 Feb 20 20:02	4° \approx 33'27	0°51'39		9826 Apr 03 05:24	15° \approx	
minimum elong	9820 Feb 20 20:04	4° \approx 33'27	0°51'50	evening set	9826 Apr 18 15:04	16° \approx 46'58	
max. Earth dist.	9820 Feb 20 13:44	4° \approx 31'29	10.48504 AU				
morning rise	9820 Mar 09 02:17	6° \approx 41'43		conjunction	9826 May 05 10:13	18° \approx 48'43	-1°26'37
retrograde	9820 Jun 18 01:02	14° \approx 12'22		minimum elong	9826 May 05 10:10	18° \approx 48'43	1°26'54
opposition	9820 Aug 24 22:03	10° \approx 51'10	0°49'21	max. Earth dist.	9826 May 05 11:36	18° \approx 49'09	10.76910 AU
min. Earth dist.	9820 Aug 25 02:54	10° \approx 50'14	8.51287 AU	morning rise	9826 May 22 04:47	20° \approx 50'18	
direct	9820 Nov 02 15:17	7° \approx 25'35		retrograde	9826 Aug 31 22:29	28° \approx 09'40	
evening set	9821 Feb 15 14:53	15° \approx 09'23		opposition	9826 Nov 09 17:14	24° \approx 49'38	-1°55'53
				min. Earth dist.	9826 Nov 09 14:59	24° \approx 50'04	8.78048 AU
conjunction	9821 Mar 04 22:06	17° \approx 17'19	0°27'26	direct	9827 Jan 18 17:34	21° \approx 29'00	
minimum elong	9821 Mar 04 22:07	17° \approx 17'19	0°27'32	evening set	9827 Apr 30 19:22	28° \approx 48'33	
max. Earth dist.	9821 Mar 04 16:35	17° \approx 15'37	10.54105 AU		9827 May 10 17:26	0° \approx	
morning rise	9821 Mar 22 02:10	19° \approx 24'17					
retrograde	9821 Jun 30 20:36	26° \approx 51'24		conjunction	9827 May 17 13:15	0° \approx 49'42	-1°41'02
opposition	9821 Sep 07 02:19	23° \approx 30'46	0°18'32	minimum elong	9827 May 17 13:13	0° \approx 49'41	1°41'22
min. Earth dist.	9821 Sep 07 05:56	23° \approx 30'04	8.56917 AU	max. Earth dist.	9827 May 17 16:23	0° \approx 50'39	10.78694 AU
direct	9821 Nov 16 01:16	20° \approx 06'05		morning rise	9827 Jun 03 07:06	2° \approx 50'52	
evening set	9822 Feb 28 14:17	27° \approx 45'13		retrograde	9827 Sep 13 10:42	10° \approx 11'09	
				opposition	9827 Nov 22 11:10	6° \approx 50'45	-2°10'56
conjunction	9822 Mar 17 18:57	29° \approx 51'44	0°02'11	min. Earth dist.	9827 Nov 22 07:17	6° \approx 51'29	8.79255 AU
minimum elong	9822 Mar 17 18:57	29° \approx 51'44	0°02'13	direct	9828 Jan 31 08:18	3° \approx 30'36	
behind sun begin	9822 Mar 17 11:51	29° \approx 49'34		evening set	9828 May 11 22:25	10° \approx 48'05	
behind sun end	9822 Mar 18 02:03	29° \approx 53'54					
max. Earth dist.	9822 Mar 17 15:07	29° \approx 50'35	10.59722 AU	conjunction	9828 May 28 15:43	12° \approx 48'57	-1°51'00
	9822 Mar 18 21:45	0° \approx		minimum elong	9828 May 28 15:42	12° \approx 48'56	1°51'22
morning rise	9822 Apr 03 20:42	1° \approx 57'23		max. Earth dist.	9828 May 28 20:37	12° \approx 50'26	10.79280 AU
desc. node	9822 Apr 18 16:46	3° \approx 42'13		morning rise	9828 Jun 14 09:33	14° \approx 50'00	
retrograde	9822 Jul 13 14:48	9° \approx 21'28		retrograde	9828 Sep 25 01:20	22° \approx 11'49	
opposition	9822 Sep 20 04:15	6° \approx 01'16	-0°12'46	opposition	9828 Dec 04 04:24	18° \approx 50'55	-2°20'15
min. Earth dist.	9822 Sep 20 06:00	6° \approx 00'56	8.62436 AU	min. Earth dist.	9828 Dec 03 23:29	18° \approx 51'50	8.79272 AU
direct	9822 Nov 29 07:22	2° \approx 37'32		direct	9829 Feb 11 20:17	15° \approx 31'02	
evening set	9823 Mar 13 08:41	10° \approx 11'58		evening set	9829 May 24 01:00	22° \approx 47'08	
conjunction	9823 Mar 30 10:47	12° \approx 17'06	-0°23'01	conjunction	9829 Jun 09 18:22	24° \approx 48'02	-1°56'07
minimum elong	9823 Mar 30 10:46	12° \approx 17'05	0°23'04	minimum elong	9829 Jun 09 18:22	24° \approx 48'02	1°56'31
max. Earth dist.	9823 Mar 30 09:15	12° \approx 16'38	10.65077 AU	max. Earth dist.	9829 Jun 09 23:47	24° \approx 49'41	10.78705 AU
morning rise	9823 Apr 16 10:12	14° \approx 21'28		morning rise	9829 Jun 26 13:06	26° \approx 49'22	
retrograde	9823 Jul 26 08:18	21° \approx 43'12			9829 Jul 24 23:56	0° \approx	
opposition	9823 Oct 03 04:16	18° \approx 23'17	-0°43'06	retrograde	9829 Oct 07 16:15	4° \approx 13'11	
min. Earth dist.	9823 Oct 03 04:31	18° \approx 23'14	8.67573 AU	opposition	9829 Dec 16 21:31	0° \approx 51'39	-2°23'28
direct	9823 Dec 12 07:47	15° \approx 00'29		min. Earth dist.	9829 Dec 16 16:27	0° \approx 52'36	8.78139 AU
evening set	9824 Mar 24 22:25	22° \approx 30'21			9829 Dec 28 09:53	30° \approx 11'	
				direct	9830 Feb 24 06:21	27° \approx 31'50	
conjunction	9824 Apr 10 21:56	24° \approx 34'11	-0°46'49		9830 Apr 20 11:40	0° \approx	
minimum elong	9824 Apr 10 21:54	24° \approx 34'10	0°46'57	evening set	9830 Jun 05 03:56	4° \approx 47'19	
max. Earth dist.	9824 Apr 10 22:05	24° \approx 34'13	10.69902 AU				
morning rise	9824 Apr 27 19:16	26° \approx 37'24		conjunction	9830 Jun 21 22:08	6° \approx 48'35	-1°56'11
	9824 May 27 22:47	0° \approx		minimum elong	9830 Jun 21 22:08	6° \approx 48'35	1°56'34
retrograde	9824 Aug 06 21:31	3° \approx 57'31		max. Earth dist.	9830 Jun 22 03:52	6° \approx 50'20	10.77024 AU

morning rise	9830 Jul 08 18:30	8° \mathring{O} 50'28	retrograde	9837 Jan 04 15:34	0° \mathring{A} 43'18
retrograde	9830 Oct 20 06:53	16° \mathring{O} 16'49		9837 Feb 02 23:25	30° \mathring{R} \mathring{M}
opposition	9830 Dec 29 14:44	12° \mathring{O} 54'32 -2°20'25	opposition	9837 Mar 14 19:51	27° \mathring{M} 16'56 -0°09'27
min. Earth dist.	9830 Dec 29 09:21	12° \mathring{O} 55'33 8.75928 AU	min. Earth dist.	9837 Mar 14 16:01	27° \mathring{M} 17'42 8.47891 AU
direct	9831 Mar 08 18:08	9° \mathring{O} 34'37	direct	9837 May 21 11:57	23° \mathring{M} 53'48
evening set	9831 Jun 17 08:10	16° \mathring{O} 50'13	asc. node	9837 Jul 03 05:21	25° \mathring{M} 29'09
				9837 Aug 18 15:56	0° \mathring{A}
conjunction	9831 Jul 04 04:08	18° \mathring{O} 52'12 -1°51'07	evening set	9837 Aug 30 17:03	1° \mathring{A} 26'15
minimum elong	9831 Jul 04 04:09	18° \mathring{O} 52'13 1°51'30			
max. Earth dist.	9831 Jul 04 10:50	18° \mathring{O} 54'15 10.74326 AU	conjunction	9837 Sep 17 07:41	3° \mathring{A} 36'45 0°05'17
morning rise	9831 Jul 21 02:46	20° \mathring{O} 54'58	minimum elong	9837 Sep 17 07:40	3° \mathring{A} 36'45 0°05'16
retrograde	9831 Nov 02 01:40	28° \mathring{O} 24'13	behind sun begin	9837 Sep 17 00:41	3° \mathring{A} 34'36
opposition	9832 Jan 11 08:20	25° \mathring{O} 01'08 -2°11'08	behind sun end	9837 Sep 17 14:39	3° \mathring{A} 38'53
min. Earth dist.	9832 Jan 11 02:13	25° \mathring{O} 02'18 8.72743 AU	max. Earth dist.	9837 Sep 17 12:04	3° \mathring{A} 38'05 10.45279 AU
direct	9832 Mar 20 05:35	21° \mathring{O} 40'58	morning rise	9837 Oct 05 01:15	5° \mathring{A} 48'10
evening set	9832 Jun 28 14:42	28° \mathring{O} 57'27	retrograde	9838 Jan 18 04:35	13° \mathring{A} 37'19
	9832 Jul 07 06:29	0° \mathring{O}	opposition	9838 Mar 27 23:17	10° \mathring{A} 10'39 0°22'49
			min. Earth dist.	9838 Mar 27 20:03	10° \mathring{A} 11'18 8.42755 AU
conjunction	9832 Jul 15 13:12	1° \mathring{O} 00'29 -1°41'04	direct	9838 Jun 03 11:12	6° \mathring{A} 46'46
minimum elong	9832 Jul 15 13:14	1° \mathring{O} 00'29 1°41'25	evening set	9838 Sep 13 05:36	14° \mathring{A} 24'03
max. Earth dist.	9832 Jul 15 21:07	1° \mathring{O} 02'53 10.70718 AU			
morning rise	9832 Aug 01 14:39	3° \mathring{O} 04'24	conjunction	9838 Sep 30 22:39	16° \mathring{A} 35'54 0°31'09
retrograde	9832 Nov 13 23:02	10° \mathring{O} 36'49	minimum elong	9838 Sep 30 22:38	16° \mathring{A} 35'54 0°31'14
opposition	9833 Jan 23 02:42	7° \mathring{O} 12'57 -1°55'54	max. Earth dist.	9838 Oct 01 01:42	16° \mathring{A} 36'51 10.40385 AU
min. Earth dist.	9833 Jan 22 19:54	7° \mathring{O} 14'15 8.68702 AU	morning rise	9838 Oct 18 18:08	18° \mathring{A} 48'33
direct	9833 Apr 01 16:39	3° \mathring{O} 52'25	retrograde	9839 Jan 31 19:23	26° \mathring{A} 40'13
evening set	9833 Jul 11 00:37	11° \mathring{O} 10'37	opposition	9839 Apr 10 05:01	23° \mathring{A} 13'26 0°54'17
			min. Earth dist.	9839 Apr 10 02:59	23° \mathring{A} 13'51 8.38192 AU
conjunction	9833 Jul 28 02:02	13° \mathring{O} 14'55 -1°26'22	direct	9839 Jun 16 14:58	19° \mathring{A} 48'47
minimum elong	9833 Jul 28 02:05	13° \mathring{O} 14'55 1°26'40	evening set	9839 Sep 27 00:02	27° \mathring{A} 31'07
max. Earth dist.	9833 Jul 28 09:51	13° \mathring{O} 17'18 10.66337 AU			
	9833 Aug 11 11:24	15° \mathring{O}	conjunction	9839 Oct 14 18:47	29° \mathring{A} 44'03 0°55'42
morning rise	9833 Aug 14 06:45	15° \mathring{O} 20'13	minimum elong	9839 Oct 14 18:45	29° \mathring{A} 44'02 0°55'53
retrograde	9833 Nov 26 23:01	22° \mathring{O} 56'01	max. Earth dist.	9839 Oct 14 19:31	29° \mathring{A} 44'17 10.36181 AU
opposition	9834 Feb 04 22:18	19° \mathring{O} 31'24 -1°35'13		9839 Oct 16 21:38	0° \mathring{M}
min. Earth dist.	9834 Feb 04 15:52	19° \mathring{O} 32'39 8.63971 AU	morning rise	9839 Nov 01 15:24	1° \mathring{M} 57'36
direct	9834 Apr 14 05:25	16° \mathring{O} 10'22	retrograde	9840 Feb 14 11:07	9° \mathring{M} 51'05
evening set	9834 Jul 23 14:45	23° \mathring{O} 31'04	opposition	9840 Apr 22 12:47	6° \mathring{M} 24'25 1°23'14
			min. Earth dist.	9840 Apr 22 12:42	6° \mathring{M} 24'26 8.34453 AU
conjunction	9834 Aug 09 19:24	25° \mathring{O} 36'50 -1°07'32	direct	9840 Jun 28 23:14	2° \mathring{M} 59'01
minimum elong	9834 Aug 09 19:26	25° \mathring{O} 36'51 1°07'47	evening set	9840 Oct 09 23:23	10° \mathring{M} 46'13
max. Earth dist.	9834 Aug 10 02:11	25° \mathring{O} 38'55 10.61377 AU			
morning rise	9834 Aug 27 03:44	27° \mathring{O} 43'41	conjunction	9840 Oct 27 19:05	12° \mathring{M} 59'57 1°17'30
	9834 Sep 15 18:34	0° \mathring{M}	minimum elong	9840 Oct 27 19:02	12° \mathring{M} 59'56 1°17'46
retrograde	9834 Dec 10 02:17	5° \mathring{M} 22'58	max. Earth dist.	9840 Oct 27 17:34	12° \mathring{M} 59'28 10.32903 AU
opposition	9835 Feb 17 19:39	1° \mathring{M} 57'41 -1°09'51		9840 Nov 12 18:30	15° \mathring{M}
min. Earth dist.	9835 Feb 17 14:14	1° \mathring{M} 58'44 8.58768 AU	morning rise	9840 Nov 14 16:00	15° \mathring{M} 14'03
	9835 Mar 16 17:21	30° \mathring{R} \mathring{O}	retrograde	9841 Feb 27 03:59	23° \mathring{M} 08'29
direct	9835 Apr 26 19:49	28° \mathring{O} 36'01	opposition	9841 May 05 22:33	19° \mathring{M} 42'07 1°47'59
	9835 Jun 06 02:29	0° \mathring{M}	min. Earth dist.	9841 May 06 00:05	19° \mathring{M} 41'48 8.31745 AU
evening set	9835 Aug 05 09:43	5° \mathring{M} 59'58	direct	9841 Jul 12 10:55	16° \mathring{M} 16'05
			evening set	9841 Oct 24 02:13	24° \mathring{M} 07'31
conjunction	9835 Aug 22 17:51	8° \mathring{M} 07'19 -0°45'20			
minimum elong	9835 Aug 22 17:53	8° \mathring{M} 07'20 0°45'31	conjunction	9841 Nov 10 22:15	26° \mathring{M} 21'43 1°35'17
max. Earth dist.	9835 Aug 22 23:31	8° \mathring{M} 09'04 10.56052 AU	minimum elong	9841 Nov 10 22:13	26° \mathring{M} 21'42 1°35'36
morning rise	9835 Sep 09 05:46	10° \mathring{M} 15'47	max. Earth dist.	9841 Nov 10 19:11	26° \mathring{M} 20'44 10.30732 AU
retrograde	9835 Dec 23 07:24	17° \mathring{M} 58'33	morning rise	9841 Nov 28 18:39	28° \mathring{M} 36'01
opposition	9836 Mar 01 18:48	14° \mathring{M} 32'40 -0°40'50		9841 Dec 10 07:15	0° \mathring{J}
min. Earth dist.	9836 Mar 01 14:26	14° \mathring{M} 33'31 8.53322 AU	retrograde	9842 Mar 12 21:38	6° \mathring{J} 30'26
direct	9836 May 08 14:11	11° \mathring{M} 10'17	opposition	9842 May 19 09:48	3° \mathring{J} 04'28 2°07'02
evening set	9836 Aug 17 10:24	18° \mathring{M} 38'13	min. Earth dist.	9842 May 19 12:23	3° \mathring{J} 03'57 8.30210 AU
				9842 Jul 05 18:38	30° \mathring{R} \mathring{M}
conjunction	9836 Sep 03 21:59	20° \mathring{M} 47'10 -0°20'43	direct	9842 Jul 26 01:59	29° \mathring{M} 37'53
minimum elong	9836 Sep 03 22:00	20° \mathring{M} 47'11 0°20'49		9842 Aug 15 07:50	0° \mathring{J}
max. Earth dist.	9836 Sep 04 03:05	20° \mathring{M} 48'45 10.50596 AU	evening set	9842 Nov 07 07:26	7° \mathring{J} 32'42
morning rise	9836 Sep 21 13:01	22° \mathring{M} 57'11			
	9836 Dec 06 13:04	0° \mathring{A}	conjunction	9842 Nov 25 03:16	9° \mathring{J} 47'01 1°47'58

minimum elong	9842 Nov 25 03:14	9° \mathbb{A} 47'00	1°48'20			9849 Feb 19 22:02	0° \mathbb{H}	
max. Earth dist.	9842 Nov 24 23:03	9° \mathbb{A} 45'41	10.29778 AU	morning rise		9849 Mar 03 19:43	1° \mathbb{H} 28'25	
morning rise	9842 Dec 12 22:28	12° \mathbb{A} 01'11		retrograde		9849 Jun 12 21:16	9° \mathbb{H} 01'21	
retrograde	9843 Mar 26 13:56	19° \mathbb{A} 54'27		opposition		9849 Aug 19 14:43	5° \mathbb{H} 39'55	1°01'48
opposition	9843 Jun 01 21:49	16° \mathbb{A} 29'01	2°19'14	min. Earth dist.		9849 Aug 19 19:55	5° \mathbb{H} 38'54	8.48316 AU
min. Earth dist.	9843 Jun 02 01:07	16° \mathbb{A} 28'21	8.29899 AU	direct		9849 Oct 28 05:58	2° \mathbb{H} 14'00	
direct	9843 Aug 08 19:50	13° \mathbb{A} 02'01		evening set		9850 Feb 10 09:08	10° \mathbb{H} 00'19	
evening set	9843 Nov 21 13:14	20° \mathbb{A} 59'03						
conjunction	9843 Dec 09 08:20	23° \mathbb{A} 13'10	1°54'47	conjunction		9850 Feb 27 17:44	12° \mathbb{H} 09'01	0°37'48
minimum elong	9843 Dec 09 08:19	23° \mathbb{A} 13'09	1°55'11	minimum elong		9850 Feb 27 17:46	12° \mathbb{H} 09'02	0°37'57
max. Earth dist.	9843 Dec 09 03:08	23° \mathbb{A} 11'31	10.30052 AU	max. Earth dist.		9850 Feb 27 11:42	12° \mathbb{H} 07'09	10.50889 AU
morning rise	9843 Dec 27 01:52	25° \mathbb{A} 26'52		morning rise		9850 Mar 16 22:45	14° \mathbb{H} 16'42	
	9844 Feb 05 11:40	0° \mathbb{B}		retrograde		9850 Jun 25 19:42	21° \mathbb{H} 45'52	
retrograde	9844 Apr 08 05:20	3° \mathbb{B} 18'00		opposition		9850 Sep 01 20:27	18° \mathbb{H} 24'53	0°31'37
	9844 Jun 13 00:26	30° \mathbb{R} \mathbb{A}		min. Earth dist.		9850 Sep 02 00:44	18° \mathbb{H} 24'03	8.53508 AU
opposition	9844 Jun 14 10:22	29° \mathbb{A} 53'10	2°23'51	direct		9850 Nov 10 16:52	14° \mathbb{H} 59'37	
min. Earth dist.	9844 Jun 14 14:40	29° \mathbb{A} 52'18	8.30766 AU	evening set		9851 Feb 23 11:24	22° \mathbb{H} 41'22	
direct	9844 Aug 21 14:34	26° \mathbb{A} 25'53		conjunction		9851 Mar 12 17:23	24° \mathbb{H} 48'41	0°12'49
	9844 Oct 26 21:21	0° \mathbb{B}		minimum elong		9851 Mar 12 17:24	24° \mathbb{H} 48'41	0°12'52
evening set	9844 Dec 04 17:45	4° \mathbb{B} 23'51		behind sun begin		9851 Mar 12 12:59	24° \mathbb{H} 47'20	
				behind sun end		9851 Mar 12 21:49	24° \mathbb{H} 50'02	
conjunction	9844 Dec 22 11:40	6° \mathbb{B} 37'30	1°55'22	max. Earth dist.		9851 Mar 12 12:41	24° \mathbb{H} 47'14	10.56152 AU
minimum elong	9844 Dec 22 11:40	6° \mathbb{B} 37'30	1°55'46	morning rise		9851 Mar 29 20:06	26° \mathbb{H} 55'03	
max. Earth dist.	9844 Dec 22 04:59	6° \mathbb{B} 35'23	10.31454 AU			9851 Apr 25 17:46	0° \mathbb{Y}	
morning rise	9845 Jan 09 03:18	8° \mathbb{B} 50'31		retrograde		9851 Jul 08 15:07	4° \mathbb{Y} 20'55	
retrograde	9845 Apr 21 19:33	16° \mathbb{B} 38'43		opposition		9851 Sep 15 00:01	1° \mathbb{Y} 00'15	0°00'18
opposition	9845 Jun 27 22:47	13° \mathbb{B} 14'35	2°20'39	min. Earth dist.		9851 Sep 15 03:40	0° \mathbb{Y} 59'33	8.58754 AU
min. Earth dist.	9845 Jun 28 04:32	13° \mathbb{B} 13'25	8.32665 AU	desc. node		9851 Sep 18 12:59	0° \mathbb{Y} 43'53	
direct	9845 Sep 04 08:47	9° \mathbb{B} 47'11				9851 Sep 28 05:26	30° \mathbb{R} \mathbb{H}	
evening set	9845 Dec 18 19:50	17° \mathbb{B} 44'55		direct		9851 Nov 24 00:39	27° \mathbb{H} 35'43	
						9852 Jan 17 20:12	0° \mathbb{Y}	
conjunction	9846 Jan 05 12:16	19° \mathbb{B} 57'55	1°49'44	evening set		9852 Mar 07 08:21	5° \mathbb{Y} 12'45	
minimum elong	9846 Jan 05 12:17	19° \mathbb{B} 57'56	1°50'07					
max. Earth dist.	9846 Jan 05 03:56	19° \mathbb{B} 55'17	10.33827 AU	conjunction		9852 Mar 24 11:36	7° \mathbb{Y} 18'39	-0°12'37
morning rise	9846 Jan 23 01:58	22° \mathbb{B} 10'07		minimum elong		9852 Mar 24 11:35	7° \mathbb{Y} 18'38	0°12'38
retrograde	9846 May 05 06:49	29° \mathbb{B} 54'49		behind sun begin		9852 Mar 24 07:02	7° \mathbb{Y} 17'15	
opposition	9846 Jul 11 10:32	26° \mathbb{B} 31'28	2°09'56	behind sun end		9852 Mar 24 16:08	7° \mathbb{Y} 20'02	
min. Earth dist.	9846 Jul 11 17:32	26° \mathbb{B} 30'04	8.35461 AU	max. Earth dist.		9852 Mar 24 07:47	7° \mathbb{Y} 17'29	10.61333 AU
direct	9846 Sep 18 04:13	23° \mathbb{B} 04'10		morning rise		9852 Apr 10 12:09	9° \mathbb{Y} 23'44	
	9846 Dec 24 11:08	0° \mathbb{A}		retrograde		9852 Jul 20 07:53	16° \mathbb{Y} 46'56	
evening set	9847 Jan 01 18:24	1° \mathbb{A} 00'35		opposition		9852 Sep 27 01:19	13° \mathbb{Y} 26'27	-0°30'39
				min. Earth dist.		9852 Sep 27 03:36	13° \mathbb{Y} 26'01	8.63814 AU
conjunction	9847 Jan 19 09:10	3° \mathbb{A} 12'46	1°38'17	direct		9852 Dec 06 04:26	10° \mathbb{Y} 02'42	
minimum elong	9847 Jan 19 09:12	3° \mathbb{A} 12'46	1°38'38	evening set		9853 Mar 20 00:14	17° \mathbb{Y} 35'04	
max. Earth dist.	9847 Jan 18 23:45	3° \mathbb{A} 09'48	10.37072 AU					
morning rise	9847 Feb 05 20:54	5° \mathbb{A} 24'01		conjunction		9853 Apr 06 00:52	19° \mathbb{Y} 39'37	-0°37'07
retrograde	9847 May 18 13:40	13° \mathbb{A} 04'54		minimum elong		9853 Apr 06 00:51	19° \mathbb{Y} 39'37	0°37'13
opposition	9847 Jul 24 21:28	9° \mathbb{A} 42'17	1°52'25	max. Earth dist.		9853 Apr 05 22:51	19° \mathbb{Y} 39'00	10.66192 AU
min. Earth dist.	9847 Jul 25 04:44	9° \mathbb{A} 40'51	8.39083 AU	morning rise		9853 Apr 22 23:22	21° \mathbb{Y} 43'32	
direct	9847 Oct 01 23:41	6° \mathbb{A} 15'17		retrograde		9853 Aug 01 21:37	29° \mathbb{Y} 04'46	
evening set	9848 Jan 15 12:30	14° \mathbb{A} 09'16		opposition		9853 Oct 10 00:20	25° \mathbb{Y} 44'22	-0°59'50
	9848 Jan 22 08:36	15° \mathbb{A}		min. Earth dist.		9853 Oct 10 00:37	25° \mathbb{Y} 44'19	8.68444 AU
				direct		9853 Dec 19 05:34	22° \mathbb{Y} 21'24	
conjunction	9848 Feb 02 01:22	16° \mathbb{A} 20'24	1°21'46	evening set		9854 Apr 01 11:55	29° \mathbb{Y} 49'28	
minimum elong	9848 Feb 02 01:25	16° \mathbb{A} 20'25	1°22'04			9854 Apr 02 23:06	0° \mathbb{B}	
max. Earth dist.	9848 Feb 01 16:10	16° \mathbb{A} 17'31	10.41107 AU					
morning rise	9848 Feb 19 10:59	18° \mathbb{A} 30'34		conjunction		9854 Apr 18 10:11	1° \mathbb{B} 52'47	-0°59'43
retrograde	9848 May 30 18:17	26° \mathbb{A} 07'29		minimum elong		9854 Apr 18 10:09	1° \mathbb{B} 52'47	0°59'54
opposition	9848 Aug 06 06:59	22° \mathbb{A} 45'30	1°29'15	max. Earth dist.		9854 Apr 18 10:36	1° \mathbb{B} 52'55	10.70498 AU
min. Earth dist.	9848 Aug 06 13:20	22° \mathbb{A} 44'15	8.43427 AU	morning rise		9854 May 05 06:42	3° \mathbb{B} 55'38	
direct	9848 Oct 14 16:48	19° \mathbb{A} 18'59		retrograde		9854 Aug 14 11:47	11° \mathbb{B} 15'42	
evening set	9849 Jan 28 01:31	27° \mathbb{A} 09'29		opposition		9854 Oct 22 21:20	7° \mathbb{B} 55'16	-1°26'01
				min. Earth dist.		9854 Oct 22 19:28	7° \mathbb{B} 55'38	8.72429 AU
conjunction	9849 Feb 14 12:23	29° \mathbb{A} 19'29	1°01'13	direct		9855 Jan 01 02:24	4° \mathbb{B} 33'06	
minimum elong	9849 Feb 14 12:25	29° \mathbb{A} 19'29	1°01'27	evening set		9855 Apr 13 20:03	11° \mathbb{B} 57'19	
max. Earth dist.	9849 Feb 14 04:40	29° \mathbb{A} 17'04	10.45787 AU					

conjunction	9855 Apr 30 16:12	13° 8 59'37 -1°19'28	max. Earth dist.	9861 Jul 10 22:40	26° 5 05'55 10.74349 AU
minimum elong	9855 Apr 30 16:10	13° 8 59'37 1°19'43	morning rise	9861 Jul 27 14:25	28° 5 06'31
max. Earth dist.	9855 Apr 30 18:55	14° 8 00'27 10.74063 AU		9861 Aug 12 23:24	0° 0
	9855 May 08 22:32	15° 8	retrograde	9861 Nov 08 18:26	5° 0 36'31
morning rise	9855 May 17 11:09	16° 8 01'37	opposition	9862 Jan 17 23:43	2° 0 13'33 -2°02'55
retrograde	9855 Aug 27 01:10	23° 8 21'16	min. Earth dist.	9862 Jan 17 16:37	2° 0 14'54 8.72829 AU
opposition	9855 Nov 04 16:53	20° 8 00'44 -1°48'09		9862 Feb 18 22:48	30° 8 5
min. Earth dist.	9855 Nov 04 13:42	20° 8 01'20 8.75598 AU	direct	9862 Mar 27 15:45	28° 5 53'47
direct	9856 Jan 13 18:36	16° 8 39'18		9862 May 02 15:40	0° 0
evening set	9856 Apr 25 01:16	24° 8 00'15	evening set	9862 Jul 06 00:50	6° 0 10'10
conjunction	9856 May 11 19:43	26° 8 01'44 -1°35'34	conjunction	9862 Jul 23 00:39	8° 0 13'32 -1°33'05
minimum elong	9856 May 11 19:41	26° 8 01'44 1°35'54	minimum elong	9862 Jul 23 00:41	8° 0 13'33 1°33'25
max. Earth dist.	9856 May 11 23:31	26° 8 02'54 10.76736 AU	max. Earth dist.	9862 Jul 23 09:02	8° 0 16'05 10.70902 AU
morning rise	9856 May 28 13:49	28° 8 03'10	morning rise	9862 Aug 09 03:52	10° 0 17'54
	9856 Jun 14 10:59	0° 0		9862 Sep 22 07:52	15° 0
retrograde	9856 Sep 07 12:29	5° 0 23'07	retrograde	9862 Nov 21 15:19	17° 0 51'00
opposition	9856 Nov 16 11:06	2° 0 02'24 -2°05'24		9863 Jan 23 15:36	15° 8 0
min. Earth dist.	9856 Nov 16 07:09	2° 0 03'09 8.77811 AU	opposition	9863 Jan 30 18:09	14° 0 27'25 -1°44'31
	9856 Dec 15 13:30	30° 8 8	min. Earth dist.	9863 Jan 30 11:11	14° 0 28'45 8.68953 AU
direct	9857 Jan 25 09:19	28° 8 41'36	direct	9863 Apr 09 04:48	11° 0 07'20
	9857 Mar 06 06:13	0° 0		9863 Jun 17 19:51	15° 0
evening set	9857 May 07 04:40	5° 0 59'58	evening set	9863 Jul 18 12:13	18° 0 25'36
conjunction	9857 May 23 22:03	8° 0 00'57 -1°47'26	conjunction	9863 Aug 04 15:18	20° 0 30'19 -1°16'00
minimum elong	9857 May 23 22:02	8° 0 00'56 1°47'48	minimum elong	9863 Aug 04 15:20	20° 0 30'20 1°16'17
max. Earth dist.	9857 May 24 02:44	8° 0 02'22 10.78403 AU	max. Earth dist.	9863 Aug 04 23:54	20° 0 32'57 10.66689 AU
morning rise	9857 Jun 09 15:59	10° 0 02'04	morning rise	9863 Aug 21 21:51	22° 0 36'05
retrograde	9857 Sep 20 01:04	17° 0 23'00		9863 Nov 19 00:47	0° 0 0
opposition	9857 Nov 29 04:12	14° 0 02'00 -2°17'07	retrograde	9863 Dec 04 17:06	0° 0 12'25
min. Earth dist.	9857 Nov 28 23:16	14° 0 02'56 8.78965 AU		9863 Dec 20 10:22	30° 8 0
direct	9858 Feb 06 22:45	10° 0 41'42	opposition	9864 Feb 12 13:42	26° 0 48'11 -1°21'08
evening set	9858 May 19 06:58	17° 0 58'11	min. Earth dist.	9864 Feb 12 06:56	26° 0 49'30 8.64373 AU
			direct	9864 Apr 20 17:39	23° 0 27'37
conjunction	9858 Jun 05 00:10	19° 0 59'00 -1°54'35		9864 Jul 23 08:35	0° 0 0
minimum elong	9858 Jun 05 00:09	19° 0 58'59 1°54'59	evening set	9864 Jul 30 04:10	0° 0 48'34
max. Earth dist.	9858 Jun 05 06:29	20° 0 00'55 10.78991 AU	conjunction	9864 Aug 16 10:41	2° 0 54'46 -0°55'14
morning rise	9858 Jun 21 18:29	22° 0 00'08	minimum elong	9864 Aug 16 10:43	2° 0 54'47 0°55'27
retrograde	9858 Oct 02 14:32	29° 0 22'41	max. Earth dist.	9864 Aug 16 18:31	2° 0 57'10 10.61832 AU
opposition	9858 Dec 11 20:54	26° 0 01'16 -2°22'52	morning rise	9864 Sep 02 20:39	5° 0 02'03
min. Earth dist.	9858 Dec 11 14:21	26° 0 02'30 8.79015 AU	retrograde	9864 Dec 16 20:42	12° 0 41'40
direct	9859 Feb 19 09:51	22° 0 41'22	opposition	9865 Feb 24 10:54	9° 0 16'50 -0°53'42
evening set	9859 May 31 09:02	29° 0 56'39	min. Earth dist.	9865 Feb 24 05:01	9° 0 17'59 8.59213 AU
	9859 May 31 20:20	0° 0 5	direct	9865 May 03 08:43	5° 0 55'36
conjunction	9859 Jun 17 02:52	1° 0 57'37 -1°56'45	evening set	9865 Aug 12 01:14	13° 0 20'05
minimum elong	9859 Jun 17 02:52	1° 0 57'37 1°57'09	conjunction	9865 Aug 29 11:02	15° 0 27'50 -0°31'39
max. Earth dist.	9859 Jun 17 11:06	2° 0 00'07 10.78482 AU	minimum elong	9865 Aug 29 11:03	15° 0 27'51 0°31'47
morning rise	9859 Jul 03 22:17	3° 0 59'06	max. Earth dist.	9865 Aug 29 16:44	15° 0 29'35 10.56472 AU
retrograde	9859 Oct 15 06:00	11° 0 23'48	morning rise	9865 Sep 16 00:21	17° 0 36'40
opposition	9859 Dec 24 13:30	8° 0 01'53 -2°22'24	retrograde	9865 Dec 30 03:04	25° 0 19'39
min. Earth dist.	9859 Dec 24 05:52	8° 0 03'20 8.77966 AU	opposition	9866 Mar 09 10:05	21° 0 54'17 -0°23'21
direct	9860 Mar 02 20:22	4° 0 42'14	min. Earth dist.	9866 Mar 09 06:00	21° 0 55'05 8.53677 AU
evening set	9860 Jun 11 12:12	11° 0 57'05	direct	9866 May 16 03:12	18° 0 32'17
			evening set	9866 Aug 25 04:05	26° 0 01'01
conjunction	9860 Jun 28 07:19	13° 0 58'34 -1°53'49	conjunction	9866 Sep 11 16:59	28° 0 10'21 -0°06'19
minimum elong	9860 Jun 28 07:20	13° 0 58'34 1°54'12	minimum elong	9866 Sep 11 17:00	28° 0 10'21 0°06'22
max. Earth dist.	9860 Jun 28 16:06	14° 0 01'14 10.76910 AU	behind sun begin	9866 Sep 11 10:12	28° 0 08'16
morning rise	9860 Jul 15 04:42	16° 0 00'43	behind sun end	9866 Sep 11 23:47	28° 0 12'26
retrograde	9860 Oct 27 00:12	23° 0 27'53	max. Earth dist.	9866 Sep 11 20:18	28° 0 11'20 10.50890 AU
opposition	9861 Jan 05 06:13	20° 0 05'29 -2°15'41		9866 Sep 26 13:10	0° 0 0
min. Earth dist.	9861 Jan 04 22:34	20° 0 06'56 8.75873 AU	morning rise	9866 Sep 29 09:19	0° 0 20'42
direct	9861 Mar 15 05:12	16° 0 45'51	asc. node	9866 Dec 12 12:16	7° 0 17'55
evening set	9861 Jun 23 17:13	24° 0 01'05	retrograde	9867 Jan 12 12:49	8° 0 06'54
conjunction	9861 Jul 10 14:19	26° 0 03'22 -1°45'50	opposition	9867 Mar 22 11:26	4° 0 41'04 0°08'33
minimum elong	9861 Jul 10 14:21	26° 0 03'23 1°46'12			

min. Earth dist.	9867 Mar 22 09:14	4° 0 41'30	8.48110 AU	retrograde	9873 Apr 02 05:14	27° 7 19'54	
direct	9867 May 29 00:37	1° 0 18'09		opposition	9873 Jun 08 12:23	23° 7 54'23	2°22'45
evening set	9867 Sep 07 12:51	8° 0 51'41		min. Earth dist.	9873 Jun 08 18:06	23° 7 53'14	8.29939 AU
				direct	9873 Aug 15 14:23	20° 7 26'44	
conjunction	9867 Sep 25 04:33	11° 0 02'29	0°19'44	evening set	9873 Nov 28 11:50	28° 7 24'02	
minimum elong	9867 Sep 25 04:32	11° 0 02'29	0°19'47		9873 Dec 11 06:21	0° 0	
max. Earth dist.	9867 Sep 25 06:06	11° 0 02'58	10.45434 AU				
morning rise	9867 Oct 12 23:11	13° 0 14'11		conjunction	9873 Dec 16 06:15	0° 0 37'55	1°55'57
retrograde	9868 Jan 26 00:05	21° 0 03'13		minimum elong	9873 Dec 16 06:15	0° 0 37'55	1°56'21
opposition	9868 Apr 03 14:59	17° 0 37'02	0°40'25	max. Earth dist.	9873 Dec 15 22:09	0° 0 35'21	10.30146 AU
min. Earth dist.	9868 Apr 03 14:09	17° 0 37'12	8.42853 AU	morning rise	9874 Jan 02 23:00	2° 0 51'18	
direct	9868 Jun 10 02:59	14° 0 13'10		retrograde	9874 Apr 15 19:07	10° 0 40'46	
evening set	9868 Sep 20 03:29	21° 0 51'46		opposition	9874 Jun 22 00:20	7° 0 15'49	2°23'12
				min. Earth dist.	9874 Jun 22 06:19	7° 0 14'37	8.30955 AU
conjunction	9868 Oct 07 21:20	24° 0 03'49	0°44'57	direct	9874 Aug 29 08:57	3° 0 47'56	
minimum elong	9868 Oct 07 21:19	24° 0 03'48	0°45'06	evening set	9874 Dec 12 14:44	11° 0 45'47	
max. Earth dist.	9868 Oct 07 21:40	24° 0 03'55	10.40426 AU				
morning rise	9868 Oct 25 17:21	26° 0 16'35		conjunction	9874 Dec 30 07:59	13° 0 35'10	1°53'11
	9868 Nov 27 08:33	0° 0		minimum elong	9874 Dec 30 08:00	13° 0 35'10	1°53'34
retrograde	9869 Feb 07 13:27	4° 0 07'54		max. Earth dist.	9874 Dec 29 23:47	13° 0 56'34	10.31783 AU
opposition	9869 Apr 16 20:38	0° 0 41'30	1°10'35	morning rise	9875 Jan 16 22:46	16° 0 11'50	
min. Earth dist.	9869 Apr 16 20:40	0° 0 41'30	8.38206 AU	retrograde	9875 Apr 29 07:09	23° 0 58'12	
	9869 Apr 25 13:32	30° 0 8'0		opposition	9875 Jul 05 11:57	20° 0 33'56	2°15'56
direct	9869 Jun 23 08:48	27° 0 16'43		min. Earth dist.	9875 Jul 05 17:55	20° 0 32'45	8.33176 AU
	9869 Aug 19 02:44	0° 0		direct	9875 Sep 12 03:53	17° 0 06'03	
evening set	9869 Oct 03 23:21	5° 0 00'19		evening set	9875 Dec 26 14:41	25° 0 03'10	
conjunction	9869 Oct 21 18:38	7° 0 13'22	1°08'05	conjunction	9876 Jan 13 06:28	27° 0 15'48	1°44'23
minimum elong	9869 Oct 21 18:36	7° 0 13'22	1°08'19	minimum elong	9876 Jan 13 06:29	27° 0 15'49	1°44'45
max. Earth dist.	9869 Oct 21 17:40	7° 0 13'04	10.36153 AU	max. Earth dist.	9876 Jan 12 22:31	27° 0 13'18	10.34592 AU
morning rise	9869 Nov 08 15:13	9° 0 126'54		morning rise	9876 Jan 30 19:07	29° 0 27'34	
	9869 Dec 30 13:42	15° 0			9876 Feb 04 04:53	0° 0	
retrograde	9870 Feb 21 05:36	17° 0 19'46		retrograde	9876 May 11 16:19	7° 0 10'17	
	9870 Apr 16 02:35	15° 0 8'12		opposition	9876 Jul 17 23:02	3° 0 46'47	2°01'30
opposition	9870 Apr 30 04:23	13° 0 15'31'9	1°37'21	min. Earth dist.	9876 Jul 18 04:57	3° 0 45'36	8.36489 AU
min. Earth dist.	9870 Apr 30 05:29	13° 0 15'31'5	8.34430 AU	direct	9876 Sep 24 22:09	0° 0 19'10	
direct	9870 Jul 06 16:52	10° 0 127'37		evening set	9877 Jan 08 10:28	8° 0 14'15	
	9870 Sep 19 22:15	15° 0					
evening set	9870 Oct 17 23:28	18° 0 15'54		conjunction	9877 Jan 26 00:27	10° 0 25'57	1°30'09
				minimum elong	9877 Jan 26 00:29	10° 0 25'58	1°30'28
conjunction	9870 Nov 04 19:26	20° 0 129'38	1°27'46	max. Earth dist.	9877 Jan 25 16:51	10° 0 23'34	10.38426 AU
minimum elong	9870 Nov 04 19:23	20° 0 129'38	1°28'05	morning rise	9877 Feb 12 10:59	12° 0 36'39	
max. Earth dist.	9870 Nov 04 16:27	20° 0 128'42	10.32852 AU		9877 Mar 04 14:21	15° 0	
morning rise	9870 Nov 22 15:53	22° 0 143'37		retrograde	9877 May 24 23:11	20° 0 15'24	
	9871 Feb 08 13:08	0° 0 7		opposition	9877 Jul 31 08:57	16° 0 52'42	1°40'50
retrograde	9871 Mar 06 22:58	0° 0 737'06		min. Earth dist.	9877 Jul 31 15:05	16° 0 51'29	8.40728 AU
	9871 Apr 02 09:04	30° 0 8'12			9877 Aug 25 12:26	15° 0 8'12	
opposition	9871 May 13 13:54	27° 0 110'47	1°59'07	direct	9877 Oct 08 14:24	13° 0 25'34	
min. Earth dist.	9871 May 13 16:41	27° 0 110'14	8.31713 AU		9877 Nov 21 01:19	15° 0	
direct	9871 Jul 20 04:29	23° 0 144'17		evening set	9878 Jan 22 01:39	21° 0 17'38	
	9871 Oct 18 18:55	0° 0 7					
evening set	9871 Nov 01 02:47	1° 0 736'37		conjunction	9878 Feb 08 13:33	23° 0 28'13	1°11'22
				minimum elong	9878 Feb 08 13:36	23° 0 28'14	1°11'38
conjunction	9871 Nov 18 22:40	3° 0 750'43	1°42'52	max. Earth dist.	9878 Feb 08 05:56	23° 0 25'50	10.43082 AU
minimum elong	9871 Nov 18 22:38	3° 0 750'42	1°43'13	morning rise	9878 Feb 25 22:01	25° 0 37'46	
max. Earth dist.	9871 Nov 18 17:25	3° 0 749'03	10.30685 AU		9878 Apr 06 02:54	0° 0 8	
morning rise	9871 Dec 06 18:20	6° 0 704'47		retrograde	9878 Jun 07 02:20	3° 0 812'26	
retrograde	9872 Mar 19 14:33	13° 0 757'53			9878 Aug 11 16:41	30° 0 8'12	
opposition	9872 May 26 00:40	10° 0 731'55	2°14'34	opposition	9878 Aug 13 17:08	29° 0 50'30	1°15'13
min. Earth dist.	9872 May 26 05:13	10° 0 731'00	8.30191 AU	min. Earth dist.	9878 Aug 13 23:02	29° 0 49'20	8.45668 AU
direct	9872 Aug 01 20:34	7° 0 704'43		direct	9878 Oct 22 04:46	26° 0 24'03	
evening set	9872 Nov 14 07:28	15° 0 700'10			9878 Dec 28 20:53	0° 0 8	
				evening set	9879 Feb 04 11:43	4° 0 812'20	
conjunction	9872 Dec 02 02:47	17° 0 714'17	1°52'27				
minimum elong	9872 Dec 02 02:46	17° 0 714'17	1°52'50	conjunction	9879 Feb 21 21:19	6° 0 821'39	0°49'10
max. Earth dist.	9872 Dec 01 19:36	17° 0 712'01	10.29769 AU	minimum elong	9879 Feb 21 21:21	6° 0 821'39	0°49'21
morning rise	9872 Dec 19 21:11	19° 0 728'09		max. Earth dist.	9879 Feb 21 14:19	6° 0 819'28	10.48310 AU

morning rise	9879 Mar 11 03:37	8° K 29'57	conjunction	9885 May 06 11:58	20° B 39'00 -1°28'21
retrograde	9879 Jun 20 00:50	16° K 00'44	minimum elong	9885 May 06 11:56	20° B 39'00 1°28'39
opposition	9879 Aug 26 23:37	12° K 39'29 0°46'09	max. Earth dist.	9885 May 06 14:38	20° B 39'49 10.76828 AU
min. Earth dist.	9879 Aug 27 04:21	12° K 38'34 8.51056 AU	morning rise	9885 May 23 06:27	22° B 40'35
direct	9879 Nov 04 18:25	9° K 13'52		9885 Aug 31 10:19	0° II
evening set	9880 Feb 17 16:14	16° K 57'47	retrograde	9885 Sep 02 00:27	0° II 00'08
				9885 Sep 03 14:43	30° R B
conjunction	9880 Mar 05 23:25	19° K 05'44 0°24'46	opposition	9885 Nov 10 20:01	26° B 40'02 -1°57'44
minimum elong	9880 Mar 05 23:26	19° K 05'44 0°24'52	min. Earth dist.	9885 Nov 10 16:34	26° B 40'41 8.78044 AU
max. Earth dist.	9880 Mar 05 18:08	19° K 04'06 10.53842 AU	direct	9886 Jan 19 20:42	23° B 19'26
morning rise	9880 Mar 23 03:23	21° K 12'43		9886 Apr 26 09:20	0° II
retrograde	9880 Jul 01 22:31	28° K 40'03	evening set	9886 May 01 21:14	0° II 38'51
opposition	9880 Sep 08 04:02	25° K 19'22 0°15'11			
min. Earth dist.	9880 Sep 08 06:57	25° K 18'48 8.56624 AU	conjunction	9886 May 18 15:07	2° II 39'59 -1°42'16
direct	9880 Nov 17 03:29	21° K 54'41	minimum elong	9886 May 18 15:06	2° II 39'59 1°42'38
evening set	9881 Mar 01 15:36	29° K 33'55	max. Earth dist.	9886 May 18 19:22	2° II 41'17 10.78754 AU
	9881 Mar 05 05:35	0° Y	morning rise	9886 Jun 04 08:52	4° II 41'07
desc. node	9881 Mar 09 23:18	0° Y 34'47	retrograde	9886 Sep 14 14:44	12° II 01'28
			opposition	9886 Nov 23 13:53	8° II 41'03 -2°12'08
conjunction	9881 Mar 18 20:15	1° Y 40'28 -0°00'37	min. Earth dist.	9886 Nov 23 09:29	8° II 41'53 8.79377 AU
minimum elong	9881 Mar 18 20:16	1° Y 40'28 0°00'35	direct	9887 Feb 01 10:17	5° II 20'57
behind sun begin	9881 Mar 18 13:11	1° Y 38'18	evening set	9887 May 14 00:20	12° II 38'15
behind sun end	9881 Mar 19 03:21	1° Y 42'38			
max. Earth dist.	9881 Mar 18 17:21	1° Y 39'37 10.59410 AU	conjunction	9887 May 30 17:33	14° II 39'05 -1°51'42
morning rise	9881 Apr 04 21:50	3° Y 46'08	minimum elong	9887 May 30 17:31	14° II 39'05 1°52'05
retrograde	9881 Jul 14 17:53	11° Y 10'30	max. Earth dist.	9887 May 30 22:30	14° II 40'35 10.79452 AU
opposition	9881 Sep 21 06:16	7° Y 50'14 -0°16'06	morning rise	9887 Jun 16 11:27	16° II 40'09
min. Earth dist.	9881 Sep 21 07:42	7° Y 49'58 8.62109 AU	retrograde	9887 Sep 27 03:41	24° II 01'56
direct	9881 Nov 30 07:46	4° Y 26'31	opposition	9887 Dec 06 07:14	20° II 41'02 -2°20'45
evening set	9882 Mar 14 10:07	12° Y 01'03	min. Earth dist.	9887 Dec 06 02:31	20° II 41'56 8.79494 AU
			direct	9888 Feb 13 21:31	17° II 21'13
conjunction	9882 Mar 31 12:07	14° Y 06'13 -0°25'39	evening set	9888 May 25 02:48	24° II 37'07
minimum elong	9882 Mar 31 12:06	14° Y 06'13 0°25'43			
max. Earth dist.	9882 Mar 31 10:54	14° Y 05'51 10.64745 AU	conjunction	9888 Jun 10 20:08	26° II 37'59 -1°56'15
morning rise	9882 Apr 17 11:26	16° Y 10'38	minimum elong	9888 Jun 10 20:08	26° II 37'59 1°56'39
retrograde	9882 Jul 27 09:38	23° Y 32'39	max. Earth dist.	9888 Jun 11 01:18	26° II 39'33 10.78969 AU
opposition	9882 Oct 04 06:32	20° Y 12'42 -0°46'15	morning rise	9888 Jun 27 15:03	28° II 39'18
min. Earth dist.	9882 Oct 04 07:04	20° Y 12'36 8.67248 AU		9888 Jul 09 04:17	0° B
direct	9882 Dec 13 09:22	16° Y 49'53	retrograde	9888 Oct 08 17:18	6° B 03'05
evening set	9883 Mar 27 00:05	24° Y 19'56	opposition	9888 Dec 18 00:14	2° B 41'34 -2°23'15
			min. Earth dist.	9888 Dec 17 19:11	2° B 42'31 8.78441 AU
conjunction	9883 Apr 12 23:23	26° Y 23'46 -0°49'16		9889 Jan 28 13:49	30° R II
minimum elong	9883 Apr 12 23:21	26° Y 23'45 0°49'25	direct	9889 Feb 25 09:37	29° II 21'49
max. Earth dist.	9883 Apr 12 23:11	26° Y 23'42 10.69592 AU		9889 Mar 24 19:32	0° B
morning rise	9883 Apr 29 20:44	28° Y 27'01	evening set	9889 Jun 06 05:41	6° B 37'04
	9883 May 13 02:15	0° B			
retrograde	9883 Aug 08 23:48	5° B 47'27	conjunction	9889 Jun 23 00:04	8° B 38'20 -1°55'43
opposition	9883 Oct 17 04:51	2° B 27'38 -1°13'58	minimum elong	9889 Jun 23 00:04	8° B 38'20 1°56'07
min. Earth dist.	9883 Oct 17 04:24	2° B 27'43 8.71787 AU	max. Earth dist.	9889 Jun 23 06:21	8° B 40'14 10.77358 AU
	9883 Nov 22 16:14	30° R Y	morning rise	9889 Jul 09 20:34	10° B 40'12
direct	9883 Dec 26 08:36	29° Y 05'39	retrograde	9889 Oct 21 09:47	18° B 06'26
	9884 Jan 28 11:47	0° B	opposition	9889 Dec 30 17:06	14° B 44'11 -2°19'30
evening set	9884 Apr 07 10:07	6° B 31'33	min. Earth dist.	9889 Dec 30 11:07	14° B 45'19 8.76287 AU
			direct	9890 Mar 09 20:43	11° B 24'21
conjunction	9884 Apr 24 07:03	8° B 34'13 -1°10'27	evening set	9890 Jun 18 09:52	18° B 39'41
minimum elong	9884 Apr 24 07:01	8° B 34'13 1°10'40			
max. Earth dist.	9884 Apr 24 07:55	8° B 34'29 10.73705 AU	conjunction	9890 Jul 05 06:06	20° B 41'40 -1°50'06
morning rise	9884 May 11 02:47	10° B 36'31	minimum elong	9890 Jul 05 06:07	20° B 41'40 1°50'29
	9884 Jun 20 23:08	15° B	max. Earth dist.	9890 Jul 05 13:45	20° B 43'59 10.74706 AU
retrograde	9884 Aug 20 12:16	17° B 56'05	morning rise	9890 Jul 22 04:48	22° B 44'25
	9884 Oct 23 18:46	15° R B		9890 Oct 17 18:26	0° Q
opposition	9884 Oct 29 01:11	14° B 36'12 -1°38'06	retrograde	9890 Nov 03 04:05	0° Q 13'28
min. Earth dist.	9884 Oct 28 23:21	14° B 36'33 8.75472 AU		9890 Nov 19 16:04	30° R B
direct	9885 Jan 07 03:54	11° B 14'58	opposition	9891 Jan 12 10:31	26° B 50'26 -2°09'33
	9885 Mar 17 21:11	15° B	min. Earth dist.	9891 Jan 12 03:38	26° B 51'45 8.73139 AU
evening set	9885 Apr 19 16:48	18° B 37'15	direct	9891 Mar 22 07:14	23° B 30'22
				9891 Jun 24 02:34	0° Q

evening set	9891 Jun 30 16:19	0°♎46'34	direct	9897 Jun 04 11:14	8°♊32'35	
			evening set	9897 Sep 14 06:22	16°♊09'44	
conjunction	9891 Jul 17 14:59	2°♎49'34 -1°39'32				
minimum elong	9891 Jul 17 15:01	2°♎49'35 1°39'53	conjunction	9897 Oct 01 23:19	18°♊21'30 0°33'37	
max. Earth dist.	9891 Jul 17 23:06	2°♎52'03 10.71135 AU	minimum elong	9897 Oct 01 23:18	18°♊21'30 0°33'43	
morning rise	9891 Aug 03 16:36	4°♎53'29	max. Earth dist.	9897 Oct 02 01:11	18°♊22'05 10.40706 AU	
retrograde	9891 Nov 16 01:24	12°♎25'40	morning rise	9897 Oct 19 18:50	20°♊34'04	
opposition	9892 Jan 25 04:46	9°♎01'51 -1°53'44	retrograde	9898 Feb 01 18:40	28°♊25'24	
min. Earth dist.	9892 Jan 24 21:56	9°♎03'10 8.69131 AU	opposition	9898 Apr 11 04:50	24°♊58'40 0°57'10	
direct	9892 Apr 02 18:25	5°♎41'23	min. Earth dist.	9898 Apr 11 03:46	24°♊58'52 8.38474 AU	
evening set	9892 Jul 12 02:12	12°♎59'16	direct	9898 Jun 17 15:33	21°♊33'57	
	9892 Jul 28 16:06	15°♎	evening set	9898 Sep 28 00:31	29°♊16'10	
				9898 Oct 03 22:28	0°♋	
conjunction	9892 Jul 29 03:45	15°♎03'33 -1°24'24				
minimum elong	9892 Jul 29 03:47	15°♎03'34 1°24'42	conjunction	9898 Oct 15 19:10	1°♋29'03 0°57'53	
max. Earth dist.	9892 Jul 29 10:56	15°♎05'45 10.66788 AU	minimum elong	9898 Oct 15 19:08	1°♋29'02 0°58'04	
morning rise	9892 Aug 15 08:48	17°♎08'52	max. Earth dist.	9898 Oct 15 18:50	1°♋28'56 10.36419 AU	
retrograde	9892 Nov 28 01:27	24°♎44'21	morning rise	9898 Nov 02 15:49	3°♋42'31	
opposition	9893 Feb 06 00:02	21°♎19'48 -1°32'33	retrograde	9899 Feb 15 10:26	11°♋35'43	
min. Earth dist.	9893 Feb 05 18:11	21°♎20'56 8.64428 AU	opposition	9899 Apr 24 12:20	8°♋09'04 1°25'42	
direct	9893 Apr 15 06:13	17°♎58'48	min. Earth dist.	9899 Apr 24 12:58	8°♋08'57 8.34646 AU	
evening set	9893 Jul 24 16:11	25°♎19'13	direct	9899 Jun 30 23:15	4°♋43'36	
			evening set	9899 Oct 11 23:37	12°♋30'44	
conjunction	9893 Aug 10 21:02	27°♎24'57 -1°05'14				
minimum elong	9893 Aug 10 21:04	27°♎24'58 1°05'29	conjunction	9899 Oct 29 19:20	14°♋44'25 1°19'18	
max. Earth dist.	9893 Aug 11 03:26	27°♎26'55 10.61846 AU	minimum elong	9899 Oct 29 19:17	14°♋44'24 1°19'34	
morning rise	9893 Aug 28 05:39	29°♎31'48	max. Earth dist.	9899 Oct 29 17:29	14°♋43'50 10.33044 AU	
	9893 Sep 01 04:10	0°♌		9899 Oct 31 20:49	15°♌	
retrograde	9893 Dec 11 02:21	7°♌10'44	morning rise	9899 Nov 16 16:10	16°♌58'28	
opposition	9894 Feb 18 20:59	3°♌45'30 -1°06'50	retrograde	9900 Mar 01 03:25	24°♌52'42	
min. Earth dist.	9894 Feb 18 15:53	3°♌46'29 8.59233 AU	opposition	9900 May 07 21:50	21°♌26'18 1°49'55	
direct	9894 Apr 27 22:01	0°♌23'52	min. Earth dist.	9900 May 07 23:26	21°♌25'59 8.31837 AU	
evening set	9894 Aug 06 10:55	7°♌47'33	direct	9900 Jul 14 11:00	18°♌00'13	
			evening set	9900 Oct 26 02:24	25°♌51'41	
conjunction	9894 Aug 23 19:18	9°♌54'52 -0°42'48				
minimum elong	9894 Aug 23 19:19	9°♌54'53 0°42'59	conjunction	9900 Nov 12 22:28	28°♌05'50 1°36'36	
max. Earth dist.	9894 Aug 24 01:26	9°♌56'46 10.56516 AU	minimum elong	9900 Nov 12 22:25	28°♌05'49 1°36'56	
morning rise	9894 Sep 10 07:18	12°♌03'17	max. Earth dist.	9900 Nov 12 19:35	28°♌04'55 10.30767 AU	
retrograde	9894 Dec 24 07:51	19°♌45'43		9900 Nov 28 01:50	0°♍	
opposition	9895 Mar 03 19:42	16°♌19'52 -0°37'37	morning rise	9900 Nov 30 18:39	0°♍20'05	
min. Earth dist.	9895 Mar 03 14:59	16°♌20'47 8.53776 AU	retrograde	9901 Mar 14 20:19	8°♍14'23	
direct	9895 May 10 16:09	12°♌57'32	opposition	9901 May 21 08:57	4°♍48'24 2°08'20	
evening set	9895 Aug 19 11:25	20°♌25'09	min. Earth dist.	9901 May 21 11:18	4°♍47'56 8.30197 AU	
			direct	9901 Jul 28 02:16	1°♍21'48	
conjunction	9895 Sep 05 23:12	22°♌34'05 -0°18'05	evening set	9901 Nov 09 07:32	9°♍16'42	
minimum elong	9895 Sep 05 23:13	22°♌34'05 0°18'10				
max. Earth dist.	9895 Sep 06 04:52	22°♌35'50 10.51036 AU	conjunction	9901 Nov 27 03:20	11°♍30'59 1°48'44	
morning rise	9895 Sep 23 14:15	24°♌44'03	minimum elong	9901 Nov 27 03:18	11°♍30'59 1°49'07	
	9895 Nov 12 04:29	0°♎	max. Earth dist.	9901 Nov 26 23:19	11°♍29'44 10.29720 AU	
retrograde	9896 Jan 06 17:29	2°♎29'48	morning rise	9901 Dec 14 22:18	13°♍45'07	
	9896 Mar 03 18:33	30°♋♌	retrograde	9902 Mar 28 13:43	21°♍38'22	
opposition	9896 Mar 15 20:20	29°♌03'28 -0°06'11	opposition	9902 Jun 03 21:06	18°♍12'56 2°19'50	
min. Earth dist.	9896 Mar 15 16:11	29°♌04'17 8.48311 AU	min. Earth dist.	9902 Jun 04 00:28	18°♍12'15 8.29811 AU	
direct	9896 May 22 11:34	25°♌40'21	direct	9902 Aug 10 18:36	14°♍45'54	
asc. node	9896 May 27 01:19	25°♌41'29	evening set	9902 Nov 23 13:18	22°♍43'04	
	9896 Aug 03 18:42	0°♎				
evening set	9896 Aug 31 17:59	3°♎12'33	conjunction	9902 Dec 11 08:18	24°♍57'12 1°54'58	
			minimum elong	9902 Dec 11 08:17	24°♍57'12 1°55'23	
conjunction	9896 Sep 18 08:40	5°♎23'00 0°07'53	max. Earth dist.	9902 Dec 11 02:48	24°♍55'27 10.29942 AU	
minimum elong	9896 Sep 18 08:39	5°♎22'59 0°07'53	morning rise	9902 Dec 29 01:43	27°♍10'54	
behind sun begin	9896 Sep 18 02:11	5°♎21'00		9903 Jan 21 20:36	0°♎	
behind sun end	9896 Sep 18 15:08	5°♎24'59	retrograde	9903 Apr 11 06:02	5°♎02'01	
max. Earth dist.	9896 Sep 18 12:40	5°♎24'13 10.45671 AU	opposition	9903 Jun 17 09:49	1°♎37'14 2°23'43	
morning rise	9896 Oct 06 02:16	7°♎34'23	min. Earth dist.	9903 Jun 17 14:42	1°♎36'14 8.30653 AU	
retrograde	9897 Jan 19 05:22	15°♎23'08		9903 Jul 08 09:30	30°♋♌	
opposition	9897 Mar 28 23:24	11°♎56'30 0°25'58	direct	9903 Aug 24 13:02	28°♍09'54	
min. Earth dist.	9897 Mar 28 20:36	11°♎57'04 8.43115 AU		9903 Oct 10 00:40	0°♎	

evening set	9903 Dec 07 17:58	6° S 08'01		conjunction	9910 Mar 14 17:24	26° K 33'38	0°10'13
				minimum elong	9910 Mar 14 17:25	26° K 33'38	0°10'16
conjunction	9903 Dec 25 11:44	8° S 21'41	1°54'58	behind sun begin	9910 Mar 14 11:45	26° K 31'54	
minimum elong	9903 Dec 25 11:44	8° S 21'41	1°55'22	behind sun end	9910 Mar 14 23:04	26° K 35'22	
max. Earth dist.	9903 Dec 25 04:15	8° S 19'19	10.31356 AU	max. Earth dist.	9910 Mar 14 11:51	26° K 31'56	10.55877 AU
morning rise	9904 Jan 12 03:20	10° S 34'43		morning rise	9910 Mar 31 20:09	28° K 40'03	
retrograde	9904 Apr 23 19:14	18° S 22'50			9910 Apr 12 00:38	0° Y	
opposition	9904 Jun 29 22:21	14° S 58'44	2°19'48	retrograde	9910 Jul 10 15:28	6° Y 06'15	
min. Earth dist.	9904 Jun 30 04:41	14° S 57'28	8.32596 AU	desc. node	9910 Aug 13 02:27	5° Y 10'05	
direct	9904 Sep 06 09:07	11° S 31'18		opposition	9910 Sep 17 00:45	2° Y 45'37	-0°02'56
evening set	9904 Dec 20 19:59	19° S 29'06		min. Earth dist.	9910 Sep 17 04:36	2° Y 44'53	8.58450 AU
					9910 Oct 28 22:35	30° R K	
conjunction	9905 Jan 07 12:16	21° S 42'05	1°48'46	direct	9910 Nov 26 00:59	29° K 21'08	
minimum elong	9905 Jan 07 12:18	21° S 42'05	1°49'09		9910 Dec 23 21:20	0° Y	
max. Earth dist.	9905 Jan 07 03:18	21° S 39'15	10.33791 AU	evening set	9911 Mar 10 08:46	6° Y 58'26	
morning rise	9905 Jan 25 01:59	23° S 54'17					
	9905 Mar 24 21:41	0° \approx		conjunction	9911 Mar 27 11:55	9° Y 04'22	-0°15'12
retrograde	9905 May 07 04:43	1° \approx 38'54		minimum elong	9911 Mar 27 11:54	9° Y 04'22	0°15'14
	9905 Jun 20 11:18	30° R S		behind sun begin	9911 Mar 27 09:30	9° Y 03'38	
opposition	9905 Jul 13 10:14	28° S 15'32	2°08'24	behind sun end	9911 Mar 27 14:19	9° Y 05'06	
min. Earth dist.	9905 Jul 13 17:15	28° S 14'08	8.35446 AU	max. Earth dist.	9911 Mar 27 07:58	9° Y 03'10	10.61000 AU
direct	9905 Sep 20 05:39	24° S 48'12		morning rise	9911 Apr 13 12:27	11° Y 09'32	
	9905 Dec 11 12:02	0° \approx		retrograde	9911 Jul 23 07:57	18° Y 33'08	
evening set	9906 Jan 03 18:15	2° \approx 44'35		opposition	9911 Sep 30 02:24	15° Y 12'40	-0°33'48
				min. Earth dist.	9911 Sep 30 04:08	15° Y 12'20	8.63454 AU
conjunction	9906 Jan 21 08:59	4° \approx 56'44	1°36'48	direct	9911 Dec 09 06:11	11° Y 48'58	
minimum elong	9906 Jan 21 09:01	4° \approx 56'45	1°37'09	evening set	9912 Mar 22 00:51	19° Y 21'37	
max. Earth dist.	9906 Jan 20 23:34	4° \approx 53'46	10.37062 AU				
morning rise	9906 Feb 07 20:41	7° \approx 07'58		conjunction	9912 Apr 08 01:28	21° Y 26'13	-0°39'35
retrograde	9906 May 20 13:11	14° \approx 48'49		minimum elong	9912 Apr 08 01:26	21° Y 26'13	0°39'42
opposition	9906 Jul 26 21:10	11° \approx 26'11	1°50'18	max. Earth dist.	9912 Apr 08 00:14	21° Y 25'51	10.65808 AU
min. Earth dist.	9906 Jul 27 03:56	11° \approx 24'50	8.39055 AU	morning rise	9912 Apr 24 23:47	23° Y 30'10	
direct	9906 Oct 03 23:44	7° \approx 59'11			9912 Jul 03 04:08	0° S	
	9907 Jan 10 05:24	15° \approx		retrograde	9912 Aug 04 00:25	0° S 51'53	
evening set	9907 Jan 17 12:19	15° \approx 53'07			9912 Sep 05 10:17	30° R Y	
				opposition	9912 Oct 12 01:50	27° Y 31'28	-1°02'45
conjunction	9907 Feb 04 01:14	18° \approx 04'17	1°19'51	min. Earth dist.	9912 Oct 12 01:27	27° Y 31'32	8.68043 AU
minimum elong	9907 Feb 04 01:17	18° \approx 04'18	1°20'08	direct	9912 Dec 21 06:49	24° Y 08'34	
max. Earth dist.	9907 Feb 03 16:38	18° \approx 01'35	10.41057 AU		9913 Mar 20 17:16	0° S	
morning rise	9907 Feb 21 10:42	20° \approx 14'26		evening set	9913 Apr 03 12:48	1° S 36'52	
retrograde	9907 Jun 02 18:56	27° \approx 51'22					
opposition	9907 Aug 09 06:47	24° \approx 29'23	1°26'39	conjunction	9913 Apr 20 11:01	3° S 40'16	-1°01'56
min. Earth dist.	9907 Aug 09 12:49	24° \approx 28'12	8.43335 AU	minimum elong	9913 Apr 20 10:59	3° S 40'16	1°02'08
direct	9907 Oct 17 15:50	21° \approx 02'54		max. Earth dist.	9913 Apr 20 12:07	3° S 40'36	10.70084 AU
evening set	9908 Jan 31 01:25	28° \approx 53'27		morning rise	9913 May 07 07:24	5° S 43'10	
	9908 Feb 09 00:57	0° K		retrograde	9913 Aug 16 14:12	13° S 03'40	
				opposition	9913 Oct 24 23:10	9° S 43'14	-1°28'33
conjunction	9908 Feb 17 12:16	1° K 03'28	0°58'58	min. Earth dist.	9913 Oct 24 21:21	9° S 43'34	8.72011 AU
minimum elong	9908 Feb 17 12:18	1° K 03'28	0°59'11	direct	9914 Jan 03 02:09	6° S 21'05	
max. Earth dist.	9908 Feb 17 04:56	1° K 01'10	10.45659 AU	evening set	9914 Apr 15 21:14	13° S 45'34	
morning rise	9908 Mar 05 19:26	3° K 12'26			9914 Apr 26 04:00	15° S	
retrograde	9908 Jun 14 21:12	10° K 45'29					
opposition	9908 Aug 21 14:54	7° K 24'05	0°58'51	conjunction	9914 May 02 17:15	15° S 47'54	-1°21'20
min. Earth dist.	9908 Aug 21 20:24	7° K 23'00	8.48144 AU	minimum elong	9914 May 02 17:13	15° S 47'54	1°21'36
direct	9908 Oct 30 05:52	3° K 58'12		max. Earth dist.	9914 May 02 19:42	15° S 48'39	10.73640 AU
evening set	9909 Feb 12 09:07	11° K 44'39		morning rise	9914 May 19 12:14	17° S 49'58	
				retrograde	9914 Aug 29 02:14	25° S 10'02	
conjunction	9909 Mar 01 17:34	13° K 53'22	0°35'19	opposition	9914 Nov 06 19:00	21° S 49'28	-1°50'12
minimum elong	9909 Mar 01 17:36	13° K 53'23	0°35'27	min. Earth dist.	9914 Nov 06 16:19	21° S 49'59	8.75183 AU
max. Earth dist.	9909 Mar 01 11:11	13° K 51'23	10.50680 AU	direct	9915 Jan 15 20:21	18° S 28'02	
morning rise	9909 Mar 18 22:32	16° K 01'05		evening set	9915 Apr 28 02:41	25° S 49'14	
retrograde	9909 Jun 27 20:22	23° K 30'30					
opposition	9909 Sep 03 20:59	20° K 09'33	0°28'28	conjunction	9915 May 14 21:00	27° S 50'45	-1°37'01
min. Earth dist.	9909 Sep 04 01:55	20° K 08'36	8.53265 AU	minimum elong	9915 May 14 20:58	27° S 50'45	1°37'21
direct	9909 Nov 12 16:51	16° K 44'20		max. Earth dist.	9915 May 15 00:30	27° S 51'49	10.76326 AU
evening set	9910 Feb 25 11:35	24° K 26'17		morning rise	9915 May 31 15:11	29° S 52'14	
					9915 Jun 01 17:19	0° II	

retrograde	9915 Sep 10 14:56	7° Π 12'36	min. Earth dist.	9922 Feb 01 12:39	16° Ω 19'30	8.68895 AU
opposition	9915 Nov 19 13:28	3° Π 51'49 -2°06'53		9922 Feb 19 05:42	15° \mathbb{R} Ω	
min. Earth dist.	9915 Nov 19 09:21	3° Π 52'36 8.77417 AU	direct	9922 Apr 11 06:43	12° Ω 57'54	
direct	9916 Jan 28 12:01	0° Π 31'00		9922 May 30 12:23	15° Ω	
evening set	9916 May 09 06:10	7° Π 49'32	evening set	9922 Jul 20 14:21	20° Ω 16'04	
conjunction	9916 May 25 23:37	9° Π 50'34 -1°48'22	conjunction	9922 Aug 06 17:41	22° Ω 20'50 -1°13'48	
minimum elong	9916 May 25 23:36	9° Π 50'34 1°48'45	minimum elong	9922 Aug 06 17:43	22° Ω 20'51 1°14'05	
max. Earth dist.	9916 May 26 05:00	9° Π 52'12 10.78023 AU	max. Earth dist.	9922 Aug 07 02:55	22° Ω 23'39 10.66681 AU	
morning rise	9916 Jun 11 17:33	11° Π 51'45	morning rise	9922 Aug 24 00:24	24° Ω 26'38	
retrograde	9916 Sep 22 03:09	19° Π 13'03		9922 Oct 17 06:35	0° \mathbb{N}	
opposition	9916 Dec 01 06:42	15° Π 51'56 -2°17'56	retrograde	9922 Dec 06 19:35	2° \mathbb{N} 02'52	
min. Earth dist.	9916 Dec 01 00:53	15° Π 53'02 8.78608 AU		9923 Jan 27 14:32	30° \mathbb{R} Ω	
direct	9917 Feb 09 00:35	12° Π 31'38	opposition	9923 Feb 14 15:59	28° Ω 38'35 -1°18'13	
evening set	9917 May 21 08:36	19° Π 48'13	min. Earth dist.	9923 Feb 14 08:42	28° Ω 40'00 8.64421 AU	
			direct	9923 Apr 23 19:12	25° Ω 18'00	
conjunction	9917 Jun 07 01:57	21° Π 49'05 -1°54'58		9923 Jul 10 03:49	0° \mathbb{N}	
minimum elong	9917 Jun 07 01:57	21° Π 49'05 1°55'23	evening set	9923 Aug 02 06:20	2° \mathbb{N} 38'50	
max. Earth dist.	9917 Jun 07 09:21	21° Π 51'20 10.78650 AU				
morning rise	9917 Jun 23 20:17	23° Π 50'17	conjunction	9923 Aug 19 12:59	4° \mathbb{N} 45'04 -0°52'44	
	9917 Aug 27 02:12	0° \mathbb{E}	minimum elong	9923 Aug 19 13:01	4° \mathbb{N} 45'04 0°52'56	
retrograde	9917 Oct 04 17:24	1° \mathbb{E} 13'07	max. Earth dist.	9923 Aug 19 20:39	4° \mathbb{N} 47'25 10.61955 AU	
	9917 Nov 13 05:03	30° \mathbb{R} Π	morning rise	9923 Sep 05 23:14	6° \mathbb{N} 52'22	
opposition	9917 Dec 13 23:27	27° Π 51'36 -2°22'59	retrograde	9923 Dec 19 23:02	14° \mathbb{N} 31'47	
min. Earth dist.	9917 Dec 13 16:14	27° Π 52'58 8.78698 AU	opposition	9924 Feb 27 13:04	11° \mathbb{N} 06'56 -0°50'29	
direct	9918 Feb 21 12:23	24° Π 31'40	min. Earth dist.	9924 Feb 27 07:23	11° \mathbb{N} 08'02 8.59414 AU	
	9918 May 18 00:06	0° \mathbb{E}	direct	9924 May 05 10:48	7° \mathbb{N} 45'40	
evening set	9918 Jun 02 10:54	1° \mathbb{E} 47'01	evening set	9924 Aug 14 03:31	15° \mathbb{N} 09'58	
conjunction	9918 Jun 19 04:47	3° \mathbb{E} 48'03 -1°56'34	conjunction	9924 Aug 31 13:26	17° \mathbb{N} 17'43 -0°28'58	
minimum elong	9918 Jun 19 04:47	3° \mathbb{E} 48'04 1°56'58	minimum elong	9924 Aug 31 13:27	17° \mathbb{N} 17'44 0°29'05	
max. Earth dist.	9918 Jun 19 13:09	3° \mathbb{E} 50'36 10.78186 AU	max. Earth dist.	9924 Aug 31 18:40	17° \mathbb{N} 19'20 10.56759 AU	
morning rise	9918 Jul 06 00:21	5° \mathbb{E} 49'36	morning rise	9924 Sep 18 03:02	19° \mathbb{N} 26'33	
retrograde	9918 Oct 17 09:51	13° \mathbb{E} 14'28	retrograde	9925 Jan 01 05:06	27° \mathbb{N} 09'10	
opposition	9918 Dec 26 16:08	9° \mathbb{E} 52'29 -2°21'49	opposition	9925 Mar 11 11:54	23° \mathbb{N} 43'50 -0°19'59	
min. Earth dist.	9918 Dec 26 08:38	9° \mathbb{E} 53'55 8.77697 AU	min. Earth dist.	9925 Mar 11 08:17	23° \mathbb{N} 44'32 8.54033 AU	
direct	9919 Mar 05 21:46	6° \mathbb{E} 32'46	direct	9925 May 18 04:58	20° \mathbb{N} 21'47	
evening set	9919 Jun 14 14:09	13° \mathbb{E} 47'39	evening set	9925 Aug 27 06:15	27° \mathbb{N} 50'19	
conjunction	9919 Jul 01 09:19	15° \mathbb{E} 49'10 -1°53'03	conjunction	9925 Sep 13 19:19	29° \mathbb{N} 59'36 -0°03'35	
minimum elong	9919 Jul 01 09:20	15° \mathbb{E} 49'11 1°53'27	minimum elong	9925 Sep 13 19:20	29° \mathbb{N} 59'36 0°03'37	
max. Earth dist.	9919 Jul 01 17:40	15° \mathbb{E} 51'42 10.76673 AU	behind sun begin	9925 Sep 13 12:11	29° \mathbb{N} 57'25	
morning rise	9919 Jul 18 07:00	17° \mathbb{E} 51'25	behind sun end	9925 Sep 14 02:29	0° $\underline{\Omega}$ 01'47	
retrograde	9919 Oct 30 01:34	25° \mathbb{E} 18'41		9925 Sep 13 20:46	0° $\underline{\Omega}$	
opposition	9920 Jan 08 08:56	21° \mathbb{E} 56'12 -2°14'24	max. Earth dist.	9925 Sep 13 22:48	0° $\underline{\Omega}$ 00'38 10.51299 AU	
min. Earth dist.	9920 Jan 08 01:35	21° \mathbb{E} 57'36 8.75669 AU	morning rise	9925 Oct 01 11:45	2° $\underline{\Omega}$ 09'54	
direct	9920 Mar 17 07:19	18° \mathbb{E} 36'29	asc. node	9925 Nov 04 16:43	6° $\underline{\Omega}$ 00'20	
evening set	9920 Jun 25 19:06	25° \mathbb{E} 51'43	retrograde	9926 Jan 14 13:32	9° $\underline{\Omega}$ 55'42	
conjunction	9920 Jul 12 16:27	27° \mathbb{E} 54'04 -1°44'32	opposition	9926 Mar 24 12:57	6° $\underline{\Omega}$ 29'55 0°11'53	
minimum elong	9920 Jul 12 16:29	27° \mathbb{E} 54'04 1°44'54	min. Earth dist.	9926 Mar 24 10:38	6° $\underline{\Omega}$ 30'22 8.48558 AU	
max. Earth dist.	9920 Jul 13 01:01	27° \mathbb{E} 56'40 10.74182 AU	direct	9926 May 31 03:19	3° $\underline{\Omega}$ 07'01	
morning rise	9920 Jul 29 16:50	29° \mathbb{E} 57'16	evening set	9926 Sep 09 14:48	10° $\underline{\Omega}$ 40'19	
	9920 Jul 30 02:02	0° Ω	conjunction	9926 Sep 27 06:39	12° $\underline{\Omega}$ 51'04 0°22'22	
retrograde	9920 Nov 10 20:16	7° Ω 27'19	minimum elong	9926 Sep 27 06:38	12° $\underline{\Omega}$ 51'03 0°22'26	
opposition	9921 Jan 20 02:16	4° Ω 04'15 -2°01'00	max. Earth dist.	9926 Sep 27 08:52	12° $\underline{\Omega}$ 51'45 10.45904 AU	
min. Earth dist.	9921 Jan 19 18:52	4° Ω 05'40 8.72694 AU	morning rise	9926 Oct 15 01:13	15° $\underline{\Omega}$ 02'40	
direct	9921 Mar 29 19:28	0° Ω 44'25	retrograde	9927 Jan 28 00:53	22° $\underline{\Omega}$ 51'20	
evening set	9921 Jul 08 02:51	8° Ω 00'44	opposition	9927 Apr 06 16:10	19° $\underline{\Omega}$ 25'13 0°43'34	
conjunction	9921 Jul 25 03:01	10° Ω 04'11 -1°31'17	min. Earth dist.	9927 Apr 06 14:51	19° $\underline{\Omega}$ 25'29 8.43339 AU	
minimum elong	9921 Jul 25 03:03	10° Ω 04'12 1°31'37	direct	9927 Jun 13 04:52	16° $\underline{\Omega}$ 01'25	
max. Earth dist.	9921 Jul 25 12:22	10° Ω 07'02 10.70805 AU	evening set	9927 Sep 23 05:22	23° $\underline{\Omega}$ 39'46	
morning rise	9921 Aug 11 06:23	12° Ω 08'36	conjunction	9927 Oct 10 23:18	25° $\underline{\Omega}$ 51'46 0°47'22	
	9921 Sep 05 11:34	15° Ω	minimum elong	9927 Oct 10 23:16	25° $\underline{\Omega}$ 51'45 0°47'32	
retrograde	9921 Nov 23 18:48	19° Ω 41'40	max. Earth dist.	9927 Oct 10 23:55	25° $\underline{\Omega}$ 51'57 10.40915 AU	
opposition	9922 Feb 01 20:28	16° Ω 18'00 -1°42'02	morning rise	9927 Oct 28 19:12	28° $\underline{\Omega}$ 04'26	

	9927 Nov 13 23:59	0°♄		minimum elong	9934 Jan 01 08:36	15°♄44'44	1°52'52
retrograde	9928 Feb 10 15:47	5°♄55'23		max. Earth dist.	9934 Jan 01 00:40	15°♄42'14	10.32015 AU
opposition	9928 Apr 18 21:30	2°♄29'04	1°13'22	morning rise	9934 Jan 18 23:10	17°♄57'20	
min. Earth dist.	9928 Apr 18 21:26	2°♄29'05	8.38697 AU	retrograde	9934 May 01 07:12	25°♄43'33	
	9928 May 23 18:06	30°♄		opposition	9934 Jul 07 12:02	22°♄19'21	2°14'42
direct	9928 Jun 25 08:47	29°♄04'20		min. Earth dist.	9934 Jul 07 18:21	22°♄18'05	8.33366 AU
	9928 Jul 27 17:39	0°♄		direct	9934 Sep 14 03:55	18°♄51'30	
evening set	9928 Oct 06 01:12	6°♄47'46		evening set	9934 Dec 28 15:09	26°♄48'31	
conjunction	9928 Oct 23 20:23	9°♄00'45	1°10'09	conjunction	9935 Jan 15 06:48	29°♄01'07	1°43'07
minimum elong	9928 Oct 23 20:21	9°♄00'44	1°10'23	minimum elong	9935 Jan 15 06:50	29°♄01'08	1°43'29
max. Earth dist.	9928 Oct 23 18:48	9°♄00'15	10.36634 AU	max. Earth dist.	9935 Jan 14 22:22	28°♄58'28	10.34741 AU
morning rise	9928 Nov 10 16:53	11°♄14'11			9935 Jan 23 01:45	0°♄	
	9928 Dec 13 13:48	15°♄		morning rise	9935 Feb 01 19:22	1°♄12'51	
retrograde	9929 Feb 23 07:22	19°♄06'40		retrograde	9935 May 14 17:17	8°♄55'25	
opposition	9929 May 02 05:06	15°♄40'21	1°39'37	opposition	9935 Jul 20 23:06	5°♄31'57	1°59'38
min. Earth dist.	9929 May 02 06:50	15°♄40'00	8.34901 AU	min. Earth dist.	9935 Jul 21 05:54	5°♄30'36	8.36592 AU
	9929 May 10 15:07	15°♄		direct	9935 Sep 27 21:19	2°♄04'20	
direct	9929 Jul 08 17:25	12°♄14'42		evening set	9936 Jan 11 10:48	9°♄59'21	
	9929 Sep 03 22:43	15°♄					
evening set	9929 Oct 20 01:05	20°♄02'52		conjunction	9936 Jan 29 00:35	12°♄11'02	1°28'25
				minimum elong	9936 Jan 29 00:37	12°♄11'03	1°28'44
conjunction	9929 Nov 06 20:50	22°♄16'31	1°29'23	max. Earth dist.	9936 Jan 28 15:54	12°♄08'18	10.38482 AU
minimum elong	9929 Nov 06 20:47	22°♄16'30	1°29'42	morning rise	9936 Feb 15 11:07	14°♄21'43	
max. Earth dist.	9929 Nov 06 16:44	22°♄15'13	10.33308 AU		9936 Feb 20 16:27	15°♄	
morning rise	9929 Nov 24 17:14	24°♄30'23		retrograde	9936 May 26 22:33	22°♄00'21	
	9930 Jan 14 18:08	0°♄		opposition	9936 Aug 02 09:00	18°♄37'39	1°38'26
retrograde	9930 Mar 08 22:50	2°♄23'33		min. Earth dist.	9936 Aug 02 15:45	18°♄36'19	8.40738 AU
	9930 May 02 10:32	30°♄		direct	9936 Oct 10 15:04	15°♄10'30	
opposition	9930 May 15 14:28	28°♄57'23	2°00'46	evening set	9937 Jan 24 01:43	23°♄02'32	
min. Earth dist.	9930 May 15 18:05	28°♄56'39	8.32156 AU				
direct	9930 Jul 22 06:17	25°♄30'56		conjunction	9937 Feb 10 13:29	25°♄13'05	1°09'15
	9930 Oct 05 01:41	0°♄		minimum elong	9937 Feb 10 13:31	25°♄13'05	1°09'31
evening set	9930 Nov 03 04:07	3°♄23'10		max. Earth dist.	9937 Feb 10 05:10	25°♄10'28	10.43046 AU
				morning rise	9937 Feb 27 21:56	27°♄22'38	
conjunction	9930 Nov 20 23:52	5°♄37'11	1°43'56		9937 Mar 22 05:47	0°♄	
minimum elong	9930 Nov 20 23:50	5°♄37'10	1°44'18	retrograde	9937 Jun 09 00:33	4°♄57'17	
max. Earth dist.	9930 Nov 20 17:46	5°♄35'15	10.31109 AU	opposition	9937 Aug 15 17:12	1°♄35'18	1°12'26
morning rise	9930 Dec 08 19:30	7°♄51'10		min. Earth dist.	9937 Aug 15 22:55	1°♄34'11	8.45587 AU
retrograde	9931 Mar 22 14:30	15°♄43'59			9937 Sep 05 18:22	30°♄	
opposition	9931 May 29 01:01	12°♄18'08	2°15'32	direct	9937 Oct 24 06:47	28°♄08'49	
min. Earth dist.	9931 May 29 05:58	12°♄17'08	8.30594 AU		9937 Dec 10 17:00	0°♄	
direct	9931 Aug 04 21:22	8°♄51'01		evening set	9938 Feb 06 11:30	5°♄57'04	
evening set	9931 Nov 17 08:36	16°♄46'22					
				conjunction	9938 Feb 23 21:07	8°♄06'22	0°46'47
conjunction	9931 Dec 05 03:52	19°♄00'25	1°52'56	minimum elong	9938 Feb 23 21:08	8°♄06'23	0°46'58
minimum elong	9931 Dec 05 03:51	19°♄00'25	1°53'20	max. Earth dist.	9938 Feb 23 14:21	8°♄04'16	10.48185 AU
max. Earth dist.	9931 Dec 04 20:32	18°♄58'06	10.30144 AU	morning rise	9938 Mar 13 03:19	10°♄14'40	
morning rise	9931 Dec 22 22:09	21°♄14'12		retrograde	9938 Jun 22 01:25	17°♄45'33	
retrograde	9932 Apr 04 05:42	29°♄05'42		opposition	9938 Aug 28 23:41	14°♄24'13	0°43'06
opposition	9932 Jun 10 12:32	25°♄40'17	2°22'58	min. Earth dist.	9938 Aug 29 03:54	14°♄23'24	8.50880 AU
min. Earth dist.	9932 Jun 10 18:04	25°♄39'11	8.30281 AU	direct	9938 Nov 06 18:38	10°♄58'35	
direct	9932 Aug 17 14:57	22°♄12'43		evening set	9939 Feb 19 16:03	18°♄42'28	
	9932 Nov 29 04:35	0°♄					
evening set	9932 Nov 30 12:44	0°♄09'55		conjunction	9939 Mar 08 23:15	20°♄50'27	0°22'14
				minimum elong	9939 Mar 08 23:16	20°♄50'27	0°22'20
conjunction	9932 Dec 18 07:09	2°♄23'45	1°55'49	max. Earth dist.	9939 Mar 08 18:35	20°♄49'00	10.53621 AU
minimum elong	9932 Dec 18 07:09	2°♄23'45	1°56'14	morning rise	9939 Mar 26 03:02	22°♄57'26	
max. Earth dist.	9932 Dec 17 23:29	2°♄21'19	10.30453 AU		9939 Jun 13 06:16	0°♄	
morning rise	9933 Jan 04 23:40	4°♄37'03		retrograde	9939 Jul 04 23:22	0°♄24'54	
retrograde	9933 Apr 17 19:18	12°♄26'19			9939 Jul 26 20:35	30°♄	
opposition	9933 Jun 24 00:26	9°♄01'28	2°22'40	opposition	9939 Sep 11 04:15	27°♄04'08	0°12'01
min. Earth dist.	9933 Jun 24 06:10	9°♄00'19	8.31223 AU	min. Earth dist.	9939 Sep 11 07:06	27°♄03'35	8.56356 AU
direct	9933 Aug 31 09:40	5°♄33'39		direct	9939 Nov 20 02:24	23°♄39'25	
evening set	9933 Dec 14 15:22	13°♄31'24		desc. node	9940 Feb 02 10:45	27°♄53'28	
					9940 Feb 21 14:22	0°♄	
conjunction	9934 Jan 01 08:35	15°♄44'44	1°52'28	evening set	9940 Mar 03 15:30	1°♄18'43	

conjunction	9940 Mar 20 20:02	3° Υ 25'17 -0°03'14	evening set	9946 May 16 01:11	14° Π 25'32
minimum elong	9940 Mar 20 20:03	3° Υ 25'17 0°03'13			
behind sun begin	9940 Mar 20 12:59	3° Υ 23'07	conjunction	9946 Jun 01 18:19	16° Π 26'22 -1°52'19
behind sun end	9940 Mar 21 03:07	3° Υ 27'26	minimum elong	9946 Jun 01 18:18	16° Π 26'22 1°52'42
max. Earth dist.	9940 Mar 20 17:12	3° Υ 24'27 10.59102 AU	max. Earth dist.	9946 Jun 01 23:00	16° Π 27'48 10.79337 AU
morning rise	9940 Apr 06 21:29	5° Υ 30'58	morning rise	9946 Jun 18 12:23	18° Π 27'28
retrograde	9940 Jul 16 17:35	12° Υ 55'33	retrograde	9946 Sep 29 04:32	25° Π 49'26
opposition	9940 Sep 23 06:49	9° Υ 35'14 -0°19'14	opposition	9946 Dec 08 08:57	22° Π 28'33 -2°21'10
min. Earth dist.	9940 Sep 23 08:46	9° Υ 34'52 8.61769 AU	min. Earth dist.	9946 Dec 08 04:16	22° Π 29'26 8.79423 AU
direct	9940 Dec 02 08:04	6° Υ 11'27	direct	9947 Feb 15 23:45	19° Π 08'45
evening set	9941 Mar 16 10:02	13° Υ 46'07	evening set	9947 May 28 03:41	26° Π 24'42
conjunction	9941 Apr 02 11:51	15° Υ 51'17 -0°28'08	conjunction	9947 Jun 13 21:07	28° Π 25'36 -1°56'18
minimum elong	9941 Apr 02 11:50	15° Υ 51'17 0°28'13	minimum elong	9947 Jun 13 21:07	28° Π 25'36 1°56'42
max. Earth dist.	9941 Apr 02 09:59	15° Υ 50'43 10.64374 AU	max. Earth dist.	9947 Jun 14 02:51	28° Π 27'20 10.78936 AU
morning rise	9941 Apr 19 11:11	17° Υ 55'44		9947 Jun 26 21:43	0° Θ
retrograde	9941 Jul 29 10:02	25° Υ 18'04	morning rise	9947 Jun 30 16:07	0° Θ 26'56
opposition	9941 Oct 06 07:17	21° Υ 58'03 -0°49'13	retrograde	9947 Oct 11 19:26	7° Θ 50'54
min. Earth dist.	9941 Oct 06 08:10	21° Υ 57'53 8.66858 AU	opposition	9947 Dec 21 02:00	4° Θ 29'23 -2°22'58
direct	9941 Dec 15 10:23	18° Υ 35'11	min. Earth dist.	9947 Dec 20 20:12	4° Θ 30'29 8.78444 AU
evening set	9942 Mar 29 00:11	26° Υ 05'24	direct	9948 Feb 28 11:17	1° Θ 09'43
conjunction	9942 Apr 14 23:20	28° Υ 09'15 -0°51'33	evening set	9948 Jun 08 06:42	8° Θ 24'57
minimum elong	9942 Apr 14 23:19	28° Υ 09'15 0°51'43	conjunction	9948 Jun 25 01:19	10° Θ 26'15 -1°55'13
max. Earth dist.	9942 Apr 14 22:52	28° Υ 09'07 10.69184 AU	minimum elong	9948 Jun 25 01:19	10° Θ 26'15 1°55'37
	9942 Apr 30 02:53	0° \mathcal{B}	max. Earth dist.	9948 Jun 25 08:41	10° Θ 28'30 10.77395 AU
morning rise	9942 May 01 20:43	0° \mathcal{B} 12'34	morning rise	9948 Jul 11 21:53	12° Θ 28'10
retrograde	9942 Aug 10 23:50	7° \mathcal{B} 33'20	retrograde	9948 Oct 23 11:39	19° Θ 54'30
opposition	9942 Oct 19 05:43	4° \mathcal{B} 13'26 -1°16'38	opposition	9949 Jan 01 18:49	16° Θ 32'17 -2°18'32
min. Earth dist.	9942 Oct 19 04:50	4° \mathcal{B} 13'36 8.71376 AU	min. Earth dist.	9949 Jan 01 12:01	16° Θ 33'35 8.76356 AU
direct	9942 Dec 28 09:02	0° \mathcal{B} 51'26	direct	9949 Mar 11 21:44	13° Θ 12'33
evening set	9943 Apr 10 10:23	8° \mathcal{B} 17'32	evening set	9949 Jun 20 11:06	20° Θ 27'51
conjunction	9943 Apr 27 07:19	10° \mathcal{B} 20'14 -1°12'26	conjunction	9949 Jul 07 07:30	22° Θ 29'53 -1°49'03
minimum elong	9943 Apr 27 07:17	10° \mathcal{B} 20'14 1°12'41	minimum elong	9949 Jul 07 07:31	22° Θ 29'53 1°49'26
max. Earth dist.	9943 Apr 27 09:01	10° \mathcal{B} 20'45 10.73300 AU	max. Earth dist.	9949 Jul 07 15:29	22° Θ 32'18 10.74809 AU
morning rise	9943 May 14 02:57	12° \mathcal{B} 22'35	morning rise	9949 Jul 24 06:24	24° Θ 32'40
	9943 Jun 06 03:03	15° \mathcal{B}		9949 Sep 15 19:37	0° Ω
retrograde	9943 Aug 23 13:13	19° \mathcal{B} 42'33	retrograde	9949 Nov 05 07:01	2° Ω 01'45
opposition	9943 Nov 01 02:25	16° \mathcal{B} 22'35 -1°40'20		9949 Dec 27 05:40	30° $\mathcal{R}\Theta$
min. Earth dist.	9943 Oct 31 23:31	16° \mathcal{B} 23'07 8.75091 AU	opposition	9950 Jan 14 12:15	28° Θ 38'47 -2°07'56
	9943 Nov 19 21:08	15° $\mathcal{R}\mathcal{B}$	min. Earth dist.	9950 Jan 14 05:17	28° Θ 40'07 8.73272 AU
direct	9944 Jan 10 05:29	13° \mathcal{B} 01'21	direct	9950 Mar 24 08:13	25° Θ 18'48
	9944 Feb 28 17:18	15° \mathcal{B}		9950 Jun 10 01:39	0° Ω
evening set	9944 Apr 21 17:14	20° \mathcal{B} 23'48	evening set	9950 Jul 02 17:40	2° Ω 34'56
conjunction	9944 May 08 12:24	22° \mathcal{B} 25'35 -1°29'57	conjunction	9950 Jul 19 16:25	4° Ω 37'58 -1°37'59
minimum elong	9944 May 08 12:22	22° \mathcal{B} 25'34 1°30'16	minimum elong	9950 Jul 19 16:27	4° Ω 37'59 1°38'21
max. Earth dist.	9944 May 08 16:13	22° \mathcal{B} 26'45 10.76488 AU	max. Earth dist.	9950 Jul 19 24:00	4° Ω 40'16 10.71307 AU
morning rise	9944 May 25 06:45	24° \mathcal{B} 27'11	morning rise	9950 Aug 05 18:21	6° Ω 41'56
	9944 Jul 19 08:14	0° Π	retrograde	9950 Nov 18 03:31	14° Ω 14'03
retrograde	9944 Sep 04 03:09	1° Π 47'05	opposition	9951 Jan 27 06:29	10° Ω 50'18 -1°51'32
	9944 Oct 22 11:27	30° $\mathcal{R}\mathcal{B}$	min. Earth dist.	9951 Jan 27 00:09	10° Ω 51'31 8.69336 AU
opposition	9944 Nov 12 21:32	28° \mathcal{B} 26'55 -1°59'26	direct	9951 Apr 05 18:54	7° Ω 29'54
min. Earth dist.	9944 Nov 12 17:34	28° \mathcal{B} 27'40 8.77762 AU	evening set	9951 Jul 15 03:32	14° Ω 47'42
direct	9945 Jan 21 21:20	25° \mathcal{B} 06'20		9951 Jul 16 20:37	15° Ω
	9945 Apr 12 13:54	0° Π			
evening set	9945 May 03 21:56	2° Π 25'49	conjunction	9951 Aug 01 05:17	16° Ω 52'00 -1°22'25
conjunction	9945 May 20 15:44	4° Π 26'58 -1°43'25	minimum elong	9951 Aug 01 05:19	16° Ω 52'00 1°22'44
minimum elong	9945 May 20 15:42	4° Π 26'58 1°43'47	max. Earth dist.	9951 Aug 01 12:23	16° Ω 54'10 10.67039 AU
max. Earth dist.	9945 May 20 20:09	4° Π 28'19 10.78532 AU	morning rise	9951 Aug 18 10:37	18° Ω 57'20
morning rise	9945 Jun 06 09:32	6° Π 28'09	retrograde	9951 Dec 01 01:34	26° Ω 32'41
retrograde	9945 Sep 16 15:42	13° Π 48'43	opposition	9952 Feb 09 01:35	23° Ω 08'11 -1°29'53
opposition	9945 Nov 25 15:30	10° Π 28'16 -2°13'13	min. Earth dist.	9952 Feb 08 19:48	23° Ω 09'18 8.64714 AU
min. Earth dist.	9945 Nov 25 11:17	10° Π 29'04 8.79214 AU	direct	9952 Apr 17 08:30	19° Ω 47'15
direct	9946 Feb 03 10:14	7° Π 08'10	evening set	9952 Jul 26 17:28	27° Ω 07'31

conjunction	9952 Aug 12 22:39	29°♎13'17	-1°02'55	opposition	9958 Apr 26 11:40	9°♍53'12	1°28'07
minimum elong	9952 Aug 12 22:41	29°♎13'17	1°03'10	min. Earth dist.	9958 Apr 26 12:07	9°♍53'06	8.35111 AU
max. Earth dist.	9952 Aug 13 05:46	29°♎15'27	10.62171 AU	direct	9958 Jul 02 23:57	6°♍27'42	
	9952 Aug 19 07:10	0°♎		evening set	9958 Oct 13 23:33	14°♍14'30	
morning rise	9952 Aug 30 07:26	1°♎20'07			9958 Oct 20 02:28	15°♍	
retrograde	9952 Dec 13 03:58	8°♎58'50					
opposition	9953 Feb 20 22:11	5°♎33'38	-1°03'49	conjunction	9958 Oct 31 19:18	16°♍28'05	1°21'03
min. Earth dist.	9953 Feb 20 16:34	5°♎34'44	8.59590 AU	minimum elong	9958 Oct 31 19:15	16°♍28'04	1°21'20
direct	9953 Apr 29 23:52	2°♎12'04		max. Earth dist.	9958 Oct 31 17:55	16°♍27'39	10.33478 AU
evening set	9953 Aug 08 12:14	9°♎35'32		morning rise	9958 Nov 18 15:55	18°♍42'00	
				retrograde	9959 Mar 03 01:36	26°♍35'46	
conjunction	9953 Aug 25 20:52	11°♎42'51	-0°40'15	opposition	9959 May 09 20:44	23°♍09'21	1°51'47
minimum elong	9953 Aug 25 20:53	11°♎42'52	0°40'26	min. Earth dist.	9959 May 09 22:01	23°♍09'06	8.32243 AU
max. Earth dist.	9953 Aug 26 03:43	11°♎44'58	10.56902 AU	direct	9959 Jul 16 11:02	19°♍43'13	
morning rise	9953 Sep 12 08:56	13°♎51'15		evening set	9959 Oct 28 02:05	27°♍34'24	
retrograde	9953 Dec 26 10:11	21°♎33'22					
opposition	9954 Mar 05 20:35	18°♎07'33	-0°34'23	conjunction	9959 Nov 14 22:05	29°♍48'27	1°37'51
min. Earth dist.	9954 Mar 05 15:21	18°♎08'35	8.54190 AU	minimum elong	9959 Nov 14 22:03	29°♍48'27	1°38'12
direct	9954 May 12 16:05	14°♎45'15		max. Earth dist.	9959 Nov 14 19:10	29°♍47'32	10.31133 AU
evening set	9954 Aug 21 12:40	22°♎12'39			9959 Nov 16 10:40	0°♎	
				morning rise	9959 Dec 02 18:03	2°♎02'35	
conjunction	9954 Sep 08 00:30	24°♎21'31	-0°15'26	retrograde	9960 Mar 15 19:35	9°♎56'27	
minimum elong	9954 Sep 08 00:31	24°♎21'31	0°15'31	opposition	9960 May 22 07:28	6°♎30'28	2°09'33
behind sun begin	9954 Sep 07 22:50	24°♎21'01		min. Earth dist.	9960 May 22 10:07	6°♎29'56	8.30525 AU
behind sun end	9954 Sep 08 02:12	24°♎22'02		direct	9960 Jul 28 23:55	3°♎03'48	
max. Earth dist.	9954 Sep 08 05:59	24°♎23'12	10.51476 AU	evening set	9960 Nov 10 06:55	10°♎58'29	
morning rise	9954 Sep 25 15:39	26°♎31'26					
	9954 Oct 26 07:00	0°♎		conjunction	9960 Nov 28 02:32	13°♎12'42	1°49'27
retrograde	9955 Jan 08 18:17	4°♎16'48		minimum elong	9960 Nov 28 02:31	13°♎12'42	1°49'50
opposition	9955 Mar 18 20:59	0°♎50'30	-0°02'54	max. Earth dist.	9960 Nov 27 21:45	13°♎11'11	10.30005 AU
min. Earth dist.	9955 Mar 18 17:03	0°♎51'17	8.48775 AU	morning rise	9960 Dec 15 21:22	15°♎26'44	
	9955 Mar 29 15:22	30°♎		retrograde	9961 Mar 29 13:03	23°♎19'37	
asc. node	9955 Apr 21 20:38	28°♎25'55		opposition	9961 Jun 04 19:30	19°♎54'13	2°20'21
direct	9955 May 25 12:18	27°♎27'24		min. Earth dist.	9961 Jun 04 23:42	19°♎53'22	8.30057 AU
	9955 Jul 19 08:56	0°♎		direct	9961 Aug 11 16:54	16°♎27'07	
evening set	9955 Sep 03 19:00	4°♎59'20		evening set	9961 Nov 24 12:15	24°♎24'10	
conjunction	9955 Sep 21 09:40	7°♎09'42	0°10'29	conjunction	9961 Dec 12 07:04	26°♎38'12	1°55'07
minimum elong	9955 Sep 21 09:39	7°♎09'42	0°10'30	minimum elong	9961 Dec 12 07:03	26°♎38'12	1°55'32
behind sun begin	9955 Sep 21 04:03	7°♎07'58		max. Earth dist.	9961 Dec 12 00:23	26°♎36'06	10.30152 AU
behind sun end	9955 Sep 21 15:16	7°♎11'25		morning rise	9961 Dec 30 00:27	28°♎51'51	
max. Earth dist.	9955 Sep 21 12:48	7°♎10'39	10.46155 AU		9962 Jan 08 07:37	0°♎	
morning rise	9955 Oct 09 03:25	9°♎21'00		retrograde	9962 Apr 12 03:27	6°♎42'43	
retrograde	9956 Jan 22 05:05	17°♎09'18		opposition	9962 Jun 18 08:06	3°♎17'58	2°23'32
opposition	9956 Mar 30 23:41	13°♎42'43	0°29'07	min. Earth dist.	9962 Jun 18 13:43	3°♎16'50	8.30836 AU
min. Earth dist.	9956 Mar 30 21:36	13°♎43'08	8.43611 AU		9962 Aug 12 06:43	30°♎	
direct	9956 Jun 06 12:14	10°♎18'46		direct	9962 Aug 25 12:41	29°♎50'37	
evening set	9956 Sep 16 07:11	17°♎55'37			9962 Sep 07 18:06	0°♎	
				evening set	9962 Dec 08 16:43	7°♎48'40	
conjunction	9956 Oct 04 00:08	20°♎07'18	0°36'03	conjunction	9962 Dec 26 10:22	10°♎02'16	1°54'32
minimum elong	9956 Oct 04 00:06	20°♎07'18	0°36'11	minimum elong	9962 Dec 26 10:22	10°♎02'16	1°54'57
max. Earth dist.	9956 Oct 04 01:16	20°♎07'39	10.41204 AU	max. Earth dist.	9962 Dec 26 02:11	9°♎59'41	10.31523 AU
morning rise	9956 Oct 21 19:42	22°♎19'47		morning rise	9963 Jan 13 01:59	12°♎15'16	
	9957 Jan 20 14:13	0°♎		retrograde	9963 Apr 25 15:57	20°♎03'11	
retrograde	9957 Feb 03 18:40	0°♎10'35		opposition	9963 Jul 01 20:28	16°♎39'08	2°18'56
	9957 Feb 17 22:41	30°♎		min. Earth dist.	9963 Jul 02 02:47	16°♎37'52	8.32758 AU
opposition	9957 Apr 13 04:35	26°♎43'52	1°00'01	direct	9963 Sep 08 08:48	13°♎11'41	
min. Earth dist.	9957 Apr 13 04:02	26°♎43'59	8.38969 AU	evening set	9963 Dec 22 18:31	21°♎09'23	
direct	9957 Jun 19 15:40	23°♎19'06					
	9957 Sep 21 15:16	0°♎		conjunction	9964 Jan 09 10:49	23°♎22'20	1°47'48
evening set	9957 Sep 30 00:56	1°♎01'02		minimum elong	9964 Jan 09 10:51	23°♎22'20	1°48'11
				max. Earth dist.	9964 Jan 09 02:06	23°♎19'35	10.33962 AU
conjunction	9957 Oct 17 19:37	3°♎13'48	1°00'02	morning rise	9964 Jan 27 00:27	25°♎34'29	
minimum elong	9957 Oct 17 19:34	3°♎13'47	1°00'14		9964 Mar 06 07:25	0°♎	
max. Earth dist.	9957 Oct 17 19:18	3°♎13'42	10.36898 AU	retrograde	9964 May 08 03:04	3°♎18'54	
morning rise	9957 Nov 04 16:08	5°♎27'10			9964 Jul 13 09:54	30°♎	
retrograde	9958 Feb 17 09:07	13°♎19'52					

opposition	9964 Jul 14 08:20	29° S 55'32	2°06'55	morning rise	9970 Apr 14 10:43	12° V 50'54
min. Earth dist.	9964 Jul 14 14:48	29° S 54'15	8.35618 AU	retrograde	9970 Jul 24 08:29	20° V 15'02
direct	9964 Sep 21 03:42	26° S 28'14		opposition	9970 Oct 01 01:35	16° V 54'35 -0°36'43
	9964 Nov 26 12:26	0° \approx		min. Earth dist.	9970 Oct 01 02:54	16° V 54'20 8.62961 AU
evening set	9965 Jan 04 16:28	4° \approx 24'24		direct	9970 Dec 10 04:44	13° V 30'59
				evening set	9971 Mar 23 23:43	21° V 04'00
conjunction	9965 Jan 22 07:13	6° \approx 36'31	1°35'22			
minimum elong	9965 Jan 22 07:16	6° \approx 36'32	1°35'43	conjunction	9971 Apr 10 00:17	23° V 08'42 -0°41'52
max. Earth dist.	9965 Jan 21 22:32	6° \approx 33'47	10.37234 AU	minimum elong	9971 Apr 10 00:16	23° V 08'41 0°42'00
morning rise	9965 Feb 08 18:45	8° \approx 47'43		max. Earth dist.	9971 Apr 09 23:28	23° V 08'27 10.65260 AU
	9965 Apr 10 13:45	15° \approx		morning rise	9971 Apr 26 22:28	25° V 12'44
retrograde	9965 May 21 11:30	16° \approx 28'23			9971 Jun 10 20:23	0° S
	9965 Jul 02 05:42	15° R \approx		retrograde	9971 Aug 06 00:43	2° S 35'01
opposition	9965 Jul 27 19:15	13° \approx 05'45	1°48'17		9971 Oct 04 01:23	30° R V
min. Earth dist.	9965 Jul 28 01:45	13° \approx 04'28	8.39199 AU	opposition	9971 Oct 14 01:37	29° V 14'36 -1°05'27
direct	9965 Oct 04 21:43	9° \approx 38'47		min. Earth dist.	9971 Oct 14 01:29	29° V 14'38 8.67451 AU
	9965 Dec 27 21:09	15° \approx		direct	9971 Dec 23 04:16	25° V 51'46
evening set	9966 Jan 18 10:18	17° \approx 32'33			9972 Mar 05 17:37	0° S
				evening set	9972 Apr 04 12:08	3° S 20'30
conjunction	9966 Feb 04 23:14	19° \approx 43'41	1°18'02			
minimum elong	9966 Feb 04 23:16	19° \approx 43'42	1°18'19	conjunction	9972 Apr 21 10:10	5° S 23'58 -1°04'00
max. Earth dist.	9966 Feb 04 14:52	19° \approx 41'04	10.41163 AU	minimum elong	9972 Apr 21 10:08	5° S 23'57 1°04'12
morning rise	9966 Feb 22 08:34	21° \approx 53'49		max. Earth dist.	9972 Apr 21 10:53	5° S 24'11 10.69453 AU
retrograde	9966 Jun 03 16:56	29° \approx 30'41		morning rise	9972 May 08 06:33	7° S 26'59
opposition	9966 Aug 10 04:52	26° \approx 08'44	1°24'11	retrograde	9972 Aug 17 14:00	14° S 48'06
min. Earth dist.	9966 Aug 10 11:27	26° \approx 07'27	8.43383 AU	opposition	9972 Oct 25 23:32	11° S 27'38 -1°30'55
direct	9966 Oct 18 13:51	22° \approx 42'16		min. Earth dist.	9972 Oct 25 22:15	11° S 27'53 8.71360 AU
	9967 Jan 27 11:28	0° H		direct	9973 Jan 04 02:23	8° S 05'29
evening set	9967 Jan 31 23:24	0° H 32'48			9973 Apr 12 14:26	15° S
				evening set	9973 Apr 16 20:56	15° S 30'24
conjunction	9967 Feb 18 10:07	2° H 42'49	0°56'50			
minimum elong	9967 Feb 18 10:09	2° H 42'49	0°57'03	conjunction	9973 May 03 16:49	17° S 32'50 -1°23'04
max. Earth dist.	9967 Feb 18 02:04	2° H 40'18	10.45643 AU	minimum elong	9973 May 03 16:47	17° S 32'49 1°23'22
morning rise	9967 Mar 07 17:17	4° H 51'46		max. Earth dist.	9973 May 03 18:46	17° S 33'26 10.72967 AU
retrograde	9967 Jun 16 19:40	12° H 24'55		morning rise	9973 May 20 11:54	19° S 35'00
opposition	9967 Aug 23 13:08	9° H 03'34	0°56'05	retrograde	9973 Aug 30 03:10	26° S 55'40
min. Earth dist.	9967 Aug 23 19:31	9° H 02'19	8.48057 AU	opposition	9973 Nov 07 19:44	23° S 35'03 -1°52'07
direct	9967 Nov 01 03:34	5° H 37'43		min. Earth dist.	9973 Nov 07 16:59	23° S 35'35 8.74503 AU
evening set	9968 Feb 14 07:09	13° H 24'18		direct	9974 Jan 16 20:55	20° S 13'35
				evening set	9974 Apr 29 02:46	27° S 35'11
conjunction	9968 Mar 02 15:24	15° H 33'02	0°33'00			
minimum elong	9968 Mar 02 15:26	15° H 33'02	0°33'08	conjunction	9974 May 15 21:06	29° S 36'49 -1°38'20
max. Earth dist.	9968 Mar 02 08:00	15° H 30'44	10.50519 AU	minimum elong	9974 May 15 21:04	29° S 36'49 1°38'42
morning rise	9968 Mar 19 20:24	17° H 40'47		max. Earth dist.	9974 May 16 01:06	29° S 38'02 10.75637 AU
retrograde	9968 Jun 28 18:01	25° H 10'27			9974 May 19 01:12	0° II
opposition	9968 Sep 04 19:29	21° H 49'33	0°25'31	morning rise	9974 Jun 01 15:17	1° II 38'24
min. Earth dist.	9968 Sep 05 00:44	21° H 48'32	8.53035 AU	retrograde	9974 Sep 11 15:35	8° II 59'20
direct	9968 Nov 13 15:11	18° H 24'24		opposition	9974 Nov 20 14:30	5° II 38'27 -2°08'15
evening set	9969 Feb 26 09:42	26° H 06'35		min. Earth dist.	9974 Nov 20 09:36	5° II 39'23 8.76732 AU
				direct	9975 Jan 29 12:27	2° II 17'36
conjunction	9969 Mar 15 15:26	28° H 13'58	0°07'48	evening set	9975 May 11 06:37	9° II 36'30
minimum elong	9969 Mar 15 15:27	28° H 13'58	0°07'51			
behind sun begin	9969 Mar 15 09:03	28° H 12'01		conjunction	9975 May 28 00:10	11° II 37'38 -1°49'13
behind sun end	9969 Mar 15 21:50	28° H 15'56		minimum elong	9975 May 28 00:09	11° II 37'38 1°49'37
max. Earth dist.	9969 Mar 15 09:37	28° H 12'11	10.55577 AU	max. Earth dist.	9975 May 28 06:34	11° II 39'35 10.77345 AU
	9969 Mar 29 23:01	0° V		morning rise	9975 Jun 13 18:03	13° II 38'55
morning rise	9969 Apr 01 18:11	0° V 20'27		retrograde	9975 Sep 24 05:33	21° II 00'45
desc. node	9969 Jul 09 03:52	7° V 46'46		opposition	9975 Dec 03 08:13	17° II 39'31 -2°18'41
retrograde	9969 Jul 11 13:35	7° V 47'05		min. Earth dist.	9975 Dec 03 01:42	17° II 40'45 8.77950 AU
opposition	9969 Sep 17 23:32	4° V 26'28	-0°05'56	direct	9976 Feb 11 02:09	14° II 19'10
min. Earth dist.	9969 Sep 18 02:56	4° V 25'49	8.58083 AU	evening set	9976 May 22 09:23	21° II 36'02
direct	9969 Nov 27 00:39	1° V 02'04				
evening set	9970 Mar 11 07:08	8° V 39'40		conjunction	9976 Jun 08 02:46	23° II 37'01 -1°55'17
				minimum elong	9976 Jun 08 02:46	23° II 37'00 1°55'42
conjunction	9970 Mar 28 10:20	10° V 45'42	-0°17'37	max. Earth dist.	9976 Jun 08 10:30	23° II 39'21 10.78015 AU
minimum elong	9970 Mar 28 10:19	10° V 45'41	0°17'39	morning rise	9976 Jun 24 21:12	25° II 38'19
max. Earth dist.	9970 Mar 28 06:59	10° V 44'40	10.60569 AU		9976 Aug 04 14:09	0° S

retrograde	9976 Oct 05 20:19	3°♏01'34		max. Earth dist.	9982 Aug 20 22:32	6°♎36'50	10.61979 AU
	9976 Dec 10 15:03	30°♎II		morning rise	9982 Sep 07 01:40	8°♎41'54	
opposition	9976 Dec 15 01:17	29°♎39'57	-2°23'03	retrograde	9982 Dec 21 01:03	16°♎21'10	
min. Earth dist.	9976 Dec 14 18:08	29°♎41'18	8.78096 AU	opposition	9983 Feb 28 15:00	12°♎56'19	-0°47'16
direct	9977 Feb 22 12:24	26°♎19'56		min. Earth dist.	9983 Feb 28 09:30	12°♎57'23	8.59532 AU
	9977 May 01 21:11	0°♏		direct	9983 May 07 12:25	9°♎35'01	
evening set	9977 Jun 03 12:04	3°♏35'31		evening set	9983 Aug 16 05:31	16°♎59'13	
conjunction	9977 Jun 20 05:58	5°♏36'39	-1°56'20	conjunction	9983 Sep 02 15:41	19°♎06'58	-0°26'18
minimum elong	9977 Jun 20 05:59	5°♏36'39	1°56'44	minimum elong	9983 Sep 02 15:42	19°♎06'59	0°26'25
max. Earth dist.	9977 Jun 20 13:52	5°♏39'02	10.77622 AU	max. Earth dist.	9983 Sep 02 21:31	19°♎08'45	10.56985 AU
morning rise	9977 Jul 07 01:49	7°♏38'19		morning rise	9983 Sep 20 05:27	21°♎15'47	
retrograde	9977 Oct 18 10:30	15°♏03'29		retrograde	9984 Jan 03 05:41	28°♎58'08	
opposition	9977 Dec 27 18:05	11°♏41'24	-2°21'11	opposition	9984 Mar 12 13:30	25°♎32'47	-0°16'39
min. Earth dist.	9977 Dec 27 10:54	11°♏42'46	8.77174 AU	min. Earth dist.	9984 Mar 12 09:28	25°♎33'35	8.54360 AU
direct	9978 Mar 06 23:00	8°♏21'34		direct	9984 May 19 07:51	22°♎10'44	
evening set	9978 Jun 15 15:29	15°♏36'39		evening set	9984 Aug 28 08:15	29°♎39'04	
					9984 Aug 31 05:17	0°♏	
conjunction	9978 Jul 02 10:51	17°♏38'16	-1°52'15	conjunction	9984 Sep 14 21:32	1°♏48'19	-0°00'51
minimum elong	9978 Jul 02 10:52	17°♏38'16	1°52'40	minimum elong	9984 Sep 14 21:33	1°♏48'19	0°00'52
max. Earth dist.	9978 Jul 02 19:25	17°♏40'52	10.76196 AU	behind sun begin	9984 Sep 14 14:21	1°♏46'07	
morning rise	9978 Jul 19 08:46	19°♏40'36		behind sun end	9984 Sep 15 04:45	1°♏50'31	
retrograde	9978 Oct 31 03:13	27°♏08'09		max. Earth dist.	9984 Sep 15 02:01	1°♏49'40	10.51711 AU
opposition	9979 Jan 09 11:02	23°♏45'31	-2°13'06	asc. node	9984 Sep 26 23:25	3°♏17'38	
min. Earth dist.	9979 Jan 09 03:16	23°♏46'59	8.75237 AU	morning rise	9984 Oct 02 13:57	3°♏58'33	
direct	9979 Mar 19 10:40	20°♏25'43		retrograde	9985 Jan 15 14:47	11°♏43'58	
evening set	9979 Jun 27 20:34	27°♏41'01		opposition	9985 Mar 25 14:08	8°♏18'13	0°15'11
conjunction	9979 Jul 14 18:14	29°♏43'29	-1°43'12	min. Earth dist.	9985 Mar 25 11:08	8°♏18'48	8.49040 AU
minimum elong	9979 Jul 14 18:16	29°♏43'29	1°43'35	direct	9985 Jun 01 05:04	4°♏55'21	
max. Earth dist.	9979 Jul 15 03:53	29°♏46'25	10.73801 AU	evening set	9985 Sep 10 16:40	12°♏28'23	
	9979 Jul 17 00:34	0°♏					
morning rise	9979 Jul 31 18:45	1°♏46'46		conjunction	9985 Sep 28 08:35	14°♏39'03	0°24'58
retrograde	9979 Nov 12 23:17	9°♏16'59		minimum elong	9985 Sep 28 08:33	14°♏39'03	0°25'03
opposition	9980 Jan 22 04:24	5°♏53'47	-1°59'04	max. Earth dist.	9985 Sep 28 11:10	14°♏39'51	10.46431 AU
min. Earth dist.	9980 Jan 21 20:01	5°♏55'23	8.72365 AU	morning rise	9985 Oct 16 03:03	16°♏50'35	
direct	9980 Mar 30 20:49	2°♏33'53		retrograde	9986 Jan 29 03:27	24°♏38'48	
evening set	9980 Jul 09 04:36	9°♏50'14		opposition	9986 Apr 07 17:04	21°♏12'46	0°46'38
conjunction	9980 Jul 26 05:02	11°♏53'46	-1°29'29	min. Earth dist.	9986 Apr 07 15:34	21°♏13'03	8.43905 AU
minimum elong	9980 Jul 26 05:05	11°♏53'46	1°29'49	direct	9986 Jun 14 04:37	17°♏49'01	
max. Earth dist.	9980 Jul 26 15:07	11°♏56'50	10.70535 AU	evening set	9986 Sep 24 07:03	25°♏27'07	
morning rise	9980 Aug 12 08:37	13°♏58'15		conjunction	9986 Oct 12 00:52	27°♏39'01	0°49'43
	9980 Aug 21 02:47	15°♏		minimum elong	9986 Oct 12 00:50	27°♏39'00	0°49'53
retrograde	9980 Nov 24 21:04	21°♏31'22		max. Earth dist.	9986 Oct 12 00:56	27°♏39'02	10.41503 AU
opposition	9981 Feb 02 22:30	18°♏07'36	-1°39'34	morning rise	9986 Oct 29 20:45	29°♏51'35	
min. Earth dist.	9981 Feb 02 14:12	18°♏09'11	8.68684 AU		9986 Oct 31 00:20	0°♎	
	9981 Mar 27 18:25	15°♎♏		retrograde	9987 Feb 11 16:35	7°♎42'04	
direct	9981 Apr 12 08:10	14°♏47'25		opposition	9987 Apr 20 22:07	4°♎15'53	1°16'04
	9981 Apr 27 19:35	15°♏		min. Earth dist.	9987 Apr 20 22:39	4°♎15'47	8.39301 AU
evening set	9981 Jul 21 16:19	22°♏05'37		direct	9987 Jun 27 09:52	0°♎51'12	
				evening set	9987 Oct 08 02:38	8°♎34'26	
conjunction	9981 Aug 07 19:48	24°♏10'26	-1°11'36	conjunction	9987 Oct 25 21:41	10°♎47'18	1°12'08
minimum elong	9981 Aug 07 19:50	24°♏10'27	1°11'52	minimum elong	9987 Oct 25 21:38	10°♎47'17	1°12'23
max. Earth dist.	9981 Aug 08 04:48	24°♏13'11	10.66542 AU	max. Earth dist.	9987 Oct 25 18:58	10°♎46'27	10.37240 AU
morning rise	9981 Aug 25 02:49	26°♏16'18		morning rise	9987 Nov 12 18:11	13°♎00'37	
	9981 Sep 27 17:51	0°♎			9987 Nov 29 10:37	15°♎	
retrograde	9981 Dec 07 21:59	3°♎52'28		retrograde	9988 Feb 25 07:01	20°♎52'39	
opposition	9982 Feb 15 18:01	0°♎28'09	-1°15'18	opposition	9988 May 03 05:23	17°♎26'29	1°41'48
min. Earth dist.	9982 Feb 15 10:56	0°♎29'31	8.64354 AU	min. Earth dist.	9988 May 03 07:59	17°♎25'58	8.35504 AU
	9982 Feb 21 19:55	30°♎♏			9988 Jun 06 03:10	15°♎♎	
direct	9982 Apr 24 21:06	27°♏07'30		direct	9988 Jul 09 18:42	14°♎00'54	
	9982 Jun 22 21:44	0°♎			9988 Aug 12 03:50	15°♎	
evening set	9982 Aug 03 08:19	4°♎28'18		evening set	9988 Oct 21 02:15	21°♎48'53	
conjunction	9982 Aug 20 15:06	6°♎34'34	-0°50'14	conjunction	9988 Nov 07 21:52	24°♎02'25	1°30'54
minimum elong	9982 Aug 20 15:08	6°♎34'34	0°50'26				

minimum elong	9988 Nov 07 21:50	24° \mathbb{M} 02'24	1°31'14	minimum elong	9995 Jan 29 23:58	13° \approx 54'12	1°27'01
max. Earth dist.	9988 Nov 07 17:07	24° \mathbb{M} 00'55	10.33894 AU	max. Earth dist.	9995 Jan 29 14:32	13° \approx 51'14	10.38560 AU
morning rise	9988 Nov 25 18:11	26° \mathbb{M} 16'10			9995 Feb 07 17:35	15° \approx	
	9988 Dec 28 04:34	0° \mathbb{A}		morning rise	9995 Feb 16 10:29	16° \approx 04'52	
retrograde	9989 Mar 09 22:37	4° \mathbb{A} 08'54		retrograde	9995 May 28 20:30	23° \approx 43'24	
opposition	9989 May 16 14:25	0° \mathbb{A} 42'53	2°02'20	opposition	9995 Aug 04 08:10	20° \approx 20'41	1°36'05
min. Earth dist.	9989 May 16 18:18	0° \mathbb{A} 42'06	8.32726 AU	min. Earth dist.	9995 Aug 04 14:49	20° \approx 19'22	8.40752 AU
	9989 May 25 12:51	30° \mathbb{R} \mathbb{M}		direct	9995 Oct 12 15:46	16° \approx 53'30	
direct	9989 Jul 23 06:39	27° \mathbb{M} 16'31		evening set	9996 Jan 26 00:56	24° \approx 45'27	
	9989 Sep 18 05:28	0° \mathbb{A}					
evening set	9989 Nov 04 04:52	5° \mathbb{A} 08'34		conjunction	9996 Feb 12 12:43	26° \approx 56'00	1°07'11
				minimum elong	9996 Feb 12 12:45	26° \approx 56'00	1°07'26
conjunction	9989 Nov 22 00:34	7° \mathbb{A} 22'28	1°44'56	max. Earth dist.	9996 Feb 12 04:36	26° \approx 53'27	10.43002 AU
minimum elong	9989 Nov 22 00:32	7° \mathbb{A} 22'27	1°45'19	morning rise	9996 Feb 29 21:04	29° \approx 05'31	
max. Earth dist.	9989 Nov 21 18:35	7° \mathbb{A} 20'34	10.31651 AU		9996 Mar 08 08:45	0° \mathbb{H}	
morning rise	9989 Dec 09 20:01	9° \mathbb{A} 36'20		retrograde	9996 Jun 10 00:23	6° \mathbb{H} 40'10	
retrograde	9990 Mar 23 14:23	17° \mathbb{A} 28'47		opposition	9996 Aug 16 16:30	3° \mathbb{H} 18'08	1°09'41
opposition	9990 May 30 00:43	14° \mathbb{A} 03'04	2°16'23	min. Earth dist.	9996 Aug 16 21:45	3° \mathbb{H} 17'06	8.45479 AU
min. Earth dist.	9990 May 30 05:25	14° \mathbb{A} 02'07	8.31110 AU		9996 Oct 12 10:48	30° \mathbb{R} \approx	
direct	9990 Aug 05 21:57	10° \mathbb{A} 36'03		direct	9996 Oct 25 05:50	29° \approx 51'38	
evening set	9990 Nov 18 09:00	18° \mathbb{A} 31'12			9996 Nov 06 23:36	0° \mathbb{H}	
				evening set	9997 Feb 07 10:30	7° \mathbb{H} 39'47	
conjunction	9990 Dec 06 04:17	20° \mathbb{A} 45'10	1°53'21				
minimum elong	9990 Dec 06 04:16	20° \mathbb{A} 45'10	1°53'46	conjunction	9997 Feb 24 20:09	9° \mathbb{H} 49'07	0°44'27
max. Earth dist.	9990 Dec 05 21:20	20° \mathbb{A} 42'59	10.30622 AU	minimum elong	9997 Feb 24 20:10	9° \mathbb{H} 49'08	0°44'38
morning rise	9990 Dec 23 22:20	22° \mathbb{A} 58'51		max. Earth dist.	9997 Feb 24 13:59	9° \mathbb{H} 47'12	10.48020 AU
	9991 Mar 06 17:01	0° \mathbb{B}		morning rise	9997 Mar 14 02:11	11° \mathbb{H} 57'25	
retrograde	9991 Apr 06 05:00	0° \mathbb{B} 50'01		retrograde	9997 Jun 23 01:12	19° \mathbb{H} 28'22	
	9991 May 06 23:10	30° \mathbb{R} \mathbb{A}		opposition	9997 Aug 29 23:07	16° \mathbb{H} 06'58	0°40'07
opposition	9991 Jun 12 12:02	27° \mathbb{A} 24'44	2°23'07	min. Earth dist.	9997 Aug 30 03:24	16° \mathbb{H} 06'08	8.50658 AU
min. Earth dist.	9991 Jun 12 17:24	27° \mathbb{A} 23'39	8.30720 AU	direct	9997 Nov 07 16:58	12° \mathbb{H} 41'16	
direct	9991 Aug 19 15:03	23° \mathbb{A} 57'14		evening set	9998 Feb 20 15:08	20° \mathbb{H} 25'11	
	9991 Nov 16 17:25	0° \mathbb{B}					
evening set	9991 Dec 02 12:59	1° \mathbb{B} 54'17		conjunction	9998 Mar 09 22:15	22° \mathbb{H} 33'10	0°19'46
				minimum elong	9998 Mar 09 22:16	22° \mathbb{H} 33'10	0°19'51
conjunction	9991 Dec 20 07:19	4° \mathbb{B} 08'02	1°55'39	max. Earth dist.	9998 Mar 09 17:28	22° \mathbb{H} 31'41	10.53349 AU
minimum elong	9991 Dec 20 07:19	4° \mathbb{B} 08'02	1°56'04	morning rise	9998 Mar 27 01:57	24° \mathbb{H} 40'10	
max. Earth dist.	9991 Dec 19 23:35	4° \mathbb{B} 05'35	10.30846 AU		9998 May 16 18:21	0° \mathbb{Y}	
morning rise	9992 Jan 06 23:37	6° \mathbb{B} 21'14		retrograde	9998 Jul 05 22:17	2° \mathbb{Y} 07'48	
retrograde	9992 Apr 18 19:17	14° \mathbb{B} 10'13			9998 Aug 27 00:52	30° \mathbb{R} \mathbb{H}	
opposition	9992 Jun 24 23:48	10° \mathbb{B} 45'29	2°22'05	opposition	9998 Sep 12 03:49	28° \mathbb{H} 46'58	0°08'56
min. Earth dist.	9992 Jun 25 06:04	10° \mathbb{B} 44'13	8.31568 AU	min. Earth dist.	9998 Sep 12 07:19	28° \mathbb{H} 46'17	8.56036 AU
direct	9992 Sep 01 08:34	7° \mathbb{B} 17'43		direct	9998 Nov 21 02:10	25° \mathbb{H} 22'10	
evening set	9992 Dec 15 15:21	15° \mathbb{B} 15'19		desc. node	9998 Dec 28 01:24	26° \mathbb{H} 30'01	
					9999 Feb 07 04:46	0° \mathbb{Y}	
conjunction	9993 Jan 02 08:23	17° \mathbb{B} 28'36	1°51'43	evening set	9999 Mar 05 14:42	3° \mathbb{Y} 01'34	
minimum elong	9993 Jan 02 08:24	17° \mathbb{B} 28'36	1°52'08				
max. Earth dist.	9993 Jan 01 23:38	17° \mathbb{B} 25'50	10.32312 AU	conjunction	9999 Mar 22 19:03	5° \mathbb{Y} 08'09	-0°05'43
morning rise	9993 Jan 19 22:52	19° \mathbb{B} 41'08		minimum elong	9999 Mar 22 19:04	5° \mathbb{Y} 08'09	0°05'43
retrograde	9993 May 02 07:26	27° \mathbb{B} 27'06		behind sun begin	9999 Mar 22 12:15	5° \mathbb{Y} 06'04	
opposition	9993 Jul 08 11:25	24° \mathbb{B} 02'59	2°13'27	behind sun end	9999 Mar 23 01:52	5° \mathbb{Y} 10'14	
min. Earth dist.	9993 Jul 08 18:37	24° \mathbb{B} 01'33	8.33612 AU	max. Earth dist.	9999 Mar 22 15:23	5° \mathbb{Y} 07'03	10.58736 AU
direct	9993 Sep 15 02:39	20° \mathbb{B} 35'10		morning rise	9999 Apr 08 20:32	7° \mathbb{Y} 13'52	
evening set	9993 Dec 29 14:45	28° \mathbb{B} 32'02		retrograde	9999 Jul 18 17:09	14° \mathbb{Y} 38'43	
	9994 Jan 10 08:41	0° \approx		opposition	9999 Sep 25 06:40	11° \mathbb{Y} 18'19	-0°22'17
				min. Earth dist.	9999 Sep 25 09:04	11° \mathbb{Y} 17'51	8.61364 AU
conjunction	9994 Jan 16 06:14	0° \approx 44'36	1°41'51	direct	9999 Dec 04 07:46	7° \mathbb{Y} 54'28	
minimum elong	9994 Jan 16 06:16	0° \approx 44'36	1°42'13	evening set	10000 Mar 17 09:16	15° \mathbb{Y} 29'17	
max. Earth dist.	9994 Jan 15 20:41	0° \approx 41'35	10.34934 AU				
morning rise	9994 Feb 02 18:51	2° \approx 56'18		conjunction	10000 Apr 03 10:55	17° \mathbb{Y} 34'29	-0°30'33
retrograde	9994 May 15 15:20	10° \approx 38'40		minimum elong	10000 Apr 03 10:54	17° \mathbb{Y} 34'29	0°30'38
opposition	9994 Jul 21 22:23	7° \approx 15'15	1°57'46	max. Earth dist.	10000 Apr 03 08:41	17° \mathbb{Y} 33'48	10.63933 AU
min. Earth dist.	9994 Jul 22 05:46	7° \approx 13'47	8.36729 AU	morning rise	10000 Apr 20 10:16	19° \mathbb{Y} 38'59	
direct	9994 Sep 28 22:04	3° \approx 47'37		retrograde	10000 Jul 30 09:07	27° \mathbb{Y} 01'41	
evening set	9995 Jan 12 10:13	11° \approx 42'33		opposition	10000 Oct 07 07:23	23° \mathbb{Y} 41'33	-0°52'05
				min. Earth dist.	10000 Oct 07 07:51	23° \mathbb{Y} 41'27	8.66391 AU
conjunction	9995 Jan 29 23:55	13° \approx 54'11	1°26'42	direct	10000 Dec 16 10:25	20° \mathbb{Y} 18'38	

evening set	10001 Mar 29 23:33	27° Υ 49'03	direct	10007 Mar 01 12:13	2° Θ 56'57
			evening set	10007 Jun 10 07:26	10° Θ 12'14
conjunction	10001 Apr 15 22:43	29° Υ 52'58 -0°53'46	conjunction	10007 Jun 27 02:08	12° Θ 13'35 -1°54'40
minimum elong	10001 Apr 15 22:42	29° Υ 52'57 0°53'56	minimum elong	10007 Jun 27 02:09	12° Θ 13'35 1°55'05
max. Earth dist.	10001 Apr 15 22:55	29° Υ 53'01 10.68694 AU	max. Earth dist.	10007 Jun 27 10:00	12° Θ 15'58 10.77366 AU
	10001 Apr 16 21:40	0° \mathcal{B}	morning rise	10007 Jul 13 22:49	14° Θ 15'33
morning rise	10001 May 02 20:00	1° \mathcal{B} 56'20	retrograde	10007 Oct 25 14:18	21° Θ 42'02
retrograde	10001 Aug 12 00:06	9° \mathcal{B} 17'32	opposition	10008 Jan 03 20:20	18° Θ 19'52 -2°17'32
opposition	10001 Oct 20 06:00	5° \mathcal{B} 57'32 -1°19'11	min. Earth dist.	10008 Jan 03 13:22	18° Θ 21'11 8.76368 AU
min. Earth dist.	10001 Oct 20 04:20	5° \mathcal{B} 57'51 8.70874 AU	direct	10008 Mar 12 22:32	15° Θ 00'12
direct	10001 Dec 29 10:01	2° \mathcal{B} 35'31	evening set	10008 Jun 21 11:59	22° Θ 15'30
evening set	10002 Apr 11 10:02	10° \mathcal{B} 01'51			
conjunction	10002 Apr 28 06:59	12° \mathcal{B} 04'38 -1°14'21	conjunction	10008 Jul 08 08:27	24° Θ 17'35 -1°47'58
minimum elong	10002 Apr 28 06:57	12° \mathcal{B} 04'37 1°14'37	minimum elong	10008 Jul 08 08:28	24° Θ 17'35 1°48'22
max. Earth dist.	10002 Apr 28 09:35	12° \mathcal{B} 05'25 10.72794 AU	max. Earth dist.	10008 Jul 08 16:02	24° Θ 19'53 10.74863 AU
morning rise	10002 May 15 02:29	14° \mathcal{B} 07'01	morning rise	10008 Jul 25 07:39	26° Θ 20'26
	10002 May 22 13:54	15° \mathcal{B}		10008 Aug 27 11:45	0° \mathcal{Q}
retrograde	10002 Aug 24 15:09	21° \mathcal{B} 27'26	retrograde	10008 Nov 06 08:43	3° \mathcal{Q} 49'34
opposition	10002 Nov 02 03:05	18° \mathcal{B} 07'25 -1°42'29	opposition	10009 Jan 15 13:44	0° \mathcal{Q} 26'40 -2°06'18
min. Earth dist.	10002 Nov 01 23:51	18° \mathcal{B} 08'01 8.74598 AU	min. Earth dist.	10009 Jan 15 07:10	0° \mathcal{Q} 27'55 8.73361 AU
	10002 Dec 25 12:16	15° \mathcal{R} \mathcal{B}		10009 Jan 21 09:54	30° \mathcal{R} Θ
direct	10003 Jan 11 04:34	14° \mathcal{B} 46'12	direct	10009 Mar 25 08:05	27° Θ 06'44
	10003 Jan 27 18:34	15° \mathcal{B}		10009 May 23 23:01	0° \mathcal{Q}
evening set	10003 Apr 23 17:16	22° \mathcal{B} 08'53	evening set	10009 Jul 03 18:40	4° \mathcal{Q} 22'51
conjunction	10003 May 10 12:17	24° \mathcal{B} 10'44 -1°31'29	conjunction	10009 Jul 20 17:35	6° \mathcal{Q} 25'55 -1°36'25
minimum elong	10003 May 10 12:15	24° \mathcal{B} 10'43 1°31'49	minimum elong	10009 Jul 20 17:37	6° \mathcal{Q} 25'56 1°36'47
max. Earth dist.	10003 May 10 16:19	24° \mathcal{B} 11'57 10.76025 AU	max. Earth dist.	10009 Jul 21 01:01	6° \mathcal{Q} 28'11 10.71436 AU
morning rise	10003 May 27 06:39	26° \mathcal{B} 12'24	morning rise	10009 Aug 06 19:48	8° \mathcal{Q} 29'55
	10003 Jun 30 19:37	0° \mathcal{I}		10009 Oct 14 15:47	15° \mathcal{Q}
retrograde	10003 Sep 06 03:39	3° \mathcal{I} 32'43	retrograde	10009 Nov 19 03:37	16° \mathcal{Q} 02'01
opposition	10003 Nov 14 22:39	0° \mathcal{I} 12'31 -2°01'04		10009 Dec 25 04:35	15° \mathcal{R} \mathcal{Q}
min. Earth dist.	10003 Nov 14 18:50	0° \mathcal{I} 13'14 8.77354 AU	opposition	10010 Jan 28 07:49	12° \mathcal{Q} 38'20 -1°49'19
	10003 Nov 17 17:05	30° \mathcal{R} \mathcal{B}	min. Earth dist.	10010 Jan 28 01:32	12° \mathcal{Q} 39'33 8.69498 AU
direct	10004 Jan 23 20:58	26° \mathcal{B} 51'57	direct	10010 Apr 06 21:10	9° \mathcal{Q} 17'59
	10004 Mar 27 00:47	0° \mathcal{I}		10010 Jul 02 12:35	15° \mathcal{Q}
evening set	10004 May 04 22:11	4° \mathcal{I} 11'39	evening set	10010 Jul 16 04:32	16° \mathcal{Q} 35'43
conjunction	10004 May 21 15:52	6° \mathcal{I} 12'50 -1°44'29	conjunction	10010 Aug 02 06:35	18° \mathcal{Q} 40'03 -1°20'26
minimum elong	10004 May 21 15:50	6° \mathcal{I} 12'50 1°44'52	minimum elong	10010 Aug 02 06:37	18° \mathcal{Q} 40'04 1°20'45
max. Earth dist.	10004 May 21 20:11	6° \mathcal{I} 14'09 10.78188 AU	max. Earth dist.	10010 Aug 02 14:27	18° \mathcal{Q} 42'27 10.67239 AU
morning rise	10004 Jun 07 09:49	8° \mathcal{I} 14'05	morning rise	10010 Aug 19 12:04	20° \mathcal{Q} 45'24
retrograde	10004 Sep 17 16:12	15° \mathcal{I} 34'59	retrograde	10010 Dec 02 03:17	28° \mathcal{Q} 20'40
opposition	10004 Nov 26 16:46	12° \mathcal{I} 14'30 -2°14'14	opposition	10011 Feb 10 02:49	24° \mathcal{Q} 56'12 -1°27'12
min. Earth dist.	10004 Nov 26 12:26	12° \mathcal{I} 15'19 8.78943 AU	min. Earth dist.	10011 Feb 09 20:21	24° \mathcal{Q} 57'27 8.64948 AU
direct	10005 Feb 04 12:02	8° \mathcal{I} 54'24	direct	10011 Apr 19 10:16	21° \mathcal{Q} 35'19
evening set	10005 May 17 01:34	16° \mathcal{I} 11'54	evening set	10011 Jul 28 18:30	28° \mathcal{Q} 55'25
				10011 Aug 06 15:52	0° \mathcal{P}
conjunction	10005 Jun 02 18:46	18° \mathcal{I} 12'47 -1°52'52	conjunction	10011 Aug 14 23:57	1° \mathcal{P} 01'12 -1°00'36
minimum elong	10005 Jun 02 18:45	18° \mathcal{I} 12'47 1°53'16	minimum elong	10011 Aug 14 23:59	1° \mathcal{P} 01'13 1°00'50
max. Earth dist.	10005 Jun 03 00:03	18° \mathcal{I} 14'24 10.79126 AU	max. Earth dist.	10011 Aug 15 07:51	1° \mathcal{P} 03'37 10.62440 AU
morning rise	10005 Jun 19 12:54	20° \mathcal{I} 13'56	morning rise	10011 Sep 01 08:50	3° \mathcal{P} 08'03
retrograde	10005 Sep 30 05:58	27° \mathcal{I} 36'10	retrograde	10011 Dec 15 06:22	10° \mathcal{P} 46'35
opposition	10005 Dec 09 10:12	24° \mathcal{I} 15'16 -2°21'31	opposition	10012 Feb 22 23:11	7° \mathcal{P} 21'25 -1°00'48
min. Earth dist.	10005 Dec 09 04:46	24° \mathcal{I} 16'17 8.79268 AU	min. Earth dist.	10012 Feb 22 17:00	7° \mathcal{P} 22'37 8.59891 AU
direct	10006 Feb 17 00:24	20° \mathcal{I} 55'31	direct	10012 Apr 30 23:37	3° \mathcal{P} 59'53
evening set	10006 May 29 04:13	28° \mathcal{I} 11'32	evening set	10012 Aug 09 13:26	11° \mathcal{P} 23'10
	10006 Jun 13 04:41	0° Θ			
conjunction	10006 Jun 14 21:48	0° Θ 12'29 -1°56'19	conjunction	10012 Aug 26 22:11	13° \mathcal{P} 30'28 -0°37'44
minimum elong	10006 Jun 14 21:48	0° Θ 12'29 1°56'44	minimum elong	10012 Aug 26 22:12	13° \mathcal{P} 30'29 0°37'53
max. Earth dist.	10006 Jun 15 04:44	0° Θ 14'35 10.78823 AU	max. Earth dist.	10012 Aug 27 04:50	13° \mathcal{P} 32'31 10.57235 AU
morning rise	10006 Jul 01 16:47	2° Θ 13'52	morning rise	10012 Sep 13 10:24	15° \mathcal{P} 38'51
retrograde	10006 Oct 12 20:48	9° Θ 38'03	retrograde	10012 Dec 27 10:47	23° \mathcal{P} 20'38
opposition	10006 Dec 22 03:20	6° Θ 16'33 -2°22'39	opposition	10013 Mar 06 21:17	19° \mathcal{P} 54'53 -0°31'11
min. Earth dist.	10006 Dec 21 20:36	6° Θ 17'49 8.78375 AU	min. Earth dist.	10013 Mar 06 16:17	19° \mathcal{P} 55'52 8.54552 AU

direct	10013 May 13 17:02	16° \mathring{M} 32'35		conjunction	10018 Nov 15 21:39	1° \mathring{X} 30'48	1°39'04
evening set	10013 Aug 22 13:48	23° \mathring{M} 59'47		minimum elong	10018 Nov 15 21:36	1° \mathring{X} 30'47	1°39'26
				max. Earth dist.	10018 Nov 15 17:45	1° \mathring{X} 29'34	10.31503 AU
conjunction	10013 Sep 09 01:39	26° \mathring{M} 08'37	-0°12'49	morning rise	10018 Dec 03 17:33	3° \mathring{X} 44'50	
minimum elong	10013 Sep 09 01:39	26° \mathring{M} 08'37	0°12'53	retrograde	10019 Mar 17 18:36	11° \mathring{X} 38'13	
behind sun begin	10013 Sep 08 21:16	26° \mathring{M} 07'17		opposition	10019 May 24 06:05	8° \mathring{X} 12'15	2°10'43
behind sun end	10013 Sep 09 06:02	26° \mathring{M} 09'58		min. Earth dist.	10019 May 24 09:37	8° \mathring{X} 11'32	8.30867 AU
max. Earth dist.	10013 Sep 09 06:14	26° \mathring{M} 10'01	10.51868 AU	direct	10019 Jul 30 23:17	4° \mathring{X} 45'30	
morning rise	10013 Sep 26 16:59	28° \mathring{M} 18'29		evening set	10019 Nov 12 06:17	12° \mathring{X} 40'00	
	10013 Oct 11 00:57	0° \mathring{L}					
retrograde	10014 Jan 09 18:44	6° \mathring{L} 03'27		conjunction	10019 Nov 30 01:44	14° \mathring{X} 54'07	1°50'07
asc. node	10014 Mar 16 01:47	2° \mathring{L} 55'18		minimum elong	10019 Nov 30 01:43	14° \mathring{X} 54'06	1°50'31
opposition	10014 Mar 19 21:28	2° \mathring{L} 37'13	0°00'20	max. Earth dist.	10019 Nov 29 19:45	14° \mathring{X} 52'13	10.30313 AU
min. Earth dist.	10014 Mar 19 18:14	2° \mathring{L} 37'51	8.49191 AU	morning rise	10019 Dec 17 20:34	17° \mathring{X} 08'04	
	10014 Apr 26 21:15	30° \mathring{R} \mathring{M}		retrograde	10020 Mar 30 10:02	25° \mathring{X} 00'33	
direct	10014 May 26 13:01	29° \mathring{M} 14'05		opposition	10020 Jun 05 17:52	21° \mathring{X} 35'11	2°20'50
	10014 Jun 24 22:23	0° \mathring{L}		min. Earth dist.	10020 Jun 05 22:47	21° \mathring{X} 34'11	8.30330 AU
evening set	10014 Sep 04 19:51	6° \mathring{L} 45'45		direct	10020 Aug 12 16:51	18° \mathring{X} 08'03	
				evening set	10020 Nov 25 11:12	26° \mathring{X} 04'56	
conjunction	10014 Sep 22 10:34	8° \mathring{L} 56'03	0°13'03	conjunction	10020 Dec 13 05:53	28° \mathring{X} 18'54	1°55'13
minimum elong	10014 Sep 22 10:33	8° \mathring{L} 56'03	0°13'06	minimum elong	10020 Dec 13 05:53	28° \mathring{X} 18'54	1°55'38
behind sun begin	10014 Sep 22 06:19	8° \mathring{L} 54'45		max. Earth dist.	10020 Dec 12 22:36	28° \mathring{X} 16'36	10.30391 AU
behind sun end	10014 Sep 22 14:47	8° \mathring{L} 57'21			10020 Dec 26 14:49	0° \mathring{Z}	
max. Earth dist.	10014 Sep 22 13:20	8° \mathring{L} 56'54	10.46593 AU	morning rise	10020 Dec 30 23:14	0° \mathring{Z} 32'29	
morning rise	10014 Oct 10 04:25	11° \mathring{L} 07'18		retrograde	10021 Apr 13 01:04	8° \mathring{Z} 23'05	
retrograde	10015 Jan 23 05:09	18° \mathring{L} 55'09		opposition	10021 Jun 19 06:15	4° \mathring{Z} 58'22	2°23'18
opposition	10015 Apr 01 23:46	15° \mathring{L} 28'35	0°32'13	min. Earth dist.	10021 Jun 19 11:52	4° \mathring{Z} 57'14	8.31044 AU
min. Earth dist.	10015 Apr 01 21:59	15° \mathring{L} 28'57	8.44063 AU	direct	10021 Aug 26 11:28	1° \mathring{Z} 31'01	
direct	10015 Jun 08 12:44	12° \mathring{L} 04'36		evening set	10021 Dec 09 15:17	9° \mathring{Z} 28'56	
evening set	10015 Sep 18 07:52	19° \mathring{L} 41'11					
conjunction	10015 Oct 06 00:56	21° \mathring{L} 52'47	0°38'28	conjunction	10021 Dec 27 08:57	11° \mathring{Z} 42'31	1°54'04
minimum elong	10015 Oct 06 00:55	21° \mathring{L} 52'47	0°38'36	minimum elong	10021 Dec 27 08:57	11° \mathring{Z} 42'31	1°54'30
max. Earth dist.	10015 Oct 06 02:22	21° \mathring{L} 53'14	10.41662 AU	max. Earth dist.	10021 Dec 27 01:06	11° \mathring{Z} 40'02	10.31709 AU
morning rise	10015 Oct 23 20:26	24° \mathring{L} 05'10		morning rise	10022 Jan 14 00:28	13° \mathring{Z} 55'27	
	10015 Dec 19 19:37	0° \mathring{M}		retrograde	10022 Apr 26 14:23	21° \mathring{Z} 43'13	
retrograde	10016 Feb 05 17:11	1° \mathring{M} 55'30		opposition	10022 Jul 02 18:31	18° \mathring{Z} 19'11	2°18'01
	10016 Mar 25 11:15	30° \mathring{R} \mathring{L}		min. Earth dist.	10022 Jul 03 00:17	18° \mathring{Z} 18'02	8.32927 AU
opposition	10016 Apr 14 04:09	28° \mathring{L} 28'46	1°02'49	direct	10022 Sep 09 06:50	14° \mathring{Z} 51'48	
min. Earth dist.	10016 Apr 14 03:22	28° \mathring{L} 28'56	8.39429 AU	evening set	10022 Dec 23 16:56	22° \mathring{Z} 49'24	
direct	10016 Jun 20 17:04	25° \mathring{L} 03'58					
	10016 Sep 07 11:49	0° \mathring{M}		conjunction	10023 Jan 10 09:16	25° \mathring{Z} 02'19	1°46'49
evening set	10016 Oct 01 01:23	2° \mathring{M} 45'36		minimum elong	10023 Jan 10 09:18	25° \mathring{Z} 02'20	1°47'12
				max. Earth dist.	10023 Jan 10 01:20	24° \mathring{Z} 59'49	10.34135 AU
conjunction	10016 Oct 18 20:07	4° \mathring{M} 58'17	1°02'08	morning rise	10023 Jan 27 22:44	27° \mathring{Z} 14'26	
minimum elong	10016 Oct 18 20:05	4° \mathring{M} 58'17	1°02'22		10023 Feb 20 06:59	0° \mathring{N}	
max. Earth dist.	10016 Oct 18 20:14	4° \mathring{M} 58'19	10.37346 AU	retrograde	10023 May 10 01:11	4° \mathring{N} 58'41	
morning rise	10016 Nov 05 16:26	7° \mathring{M} 11'31		opposition	10023 Jul 16 06:21	1° \mathring{N} 35'22	2°05'23
	10017 Feb 10 00:56	15° \mathring{M}		min. Earth dist.	10023 Jul 16 12:35	1° \mathring{N} 34'08	8.35798 AU
retrograde	10017 Feb 18 08:24	15° \mathring{M} 03'44			10023 Aug 06 00:22	30° \mathring{R} \mathring{Z}	
	10017 Feb 26 16:40	15° \mathring{R} \mathring{M}		direct	10023 Sep 23 02:02	28° \mathring{Z} 08'07	
opposition	10017 Apr 27 10:53	11° \mathring{M} 37'03	1°30'29		10023 Nov 09 07:00	0° \mathring{N}	
min. Earth dist.	10017 Apr 27 11:02	11° \mathring{M} 37'01	8.35548 AU	evening set	10024 Jan 06 14:45	6° \mathring{N} 04'09	
direct	10017 Jul 03 23:27	8° \mathring{M} 11'30					
	10017 Oct 07 00:46	15° \mathring{M}		conjunction	10024 Jan 24 05:26	8° \mathring{N} 16'13	1°33'55
evening set	10017 Oct 14 23:37	15° \mathring{M} 58'00		minimum elong	10024 Jan 24 05:28	8° \mathring{N} 16'14	1°34'16
				max. Earth dist.	10024 Jan 23 21:02	8° \mathring{N} 13'35	10.37434 AU
conjunction	10017 Nov 01 19:16	18° \mathring{M} 11'29	1°22'45	morning rise	10024 Feb 10 16:48	10° \mathring{N} 27'21	
minimum elong	10017 Nov 01 19:14	18° \mathring{M} 11'28	1°23'03		10024 Mar 22 09:54	15° \mathring{N}	
max. Earth dist.	10017 Nov 01 17:44	18° \mathring{M} 11'00	10.33893 AU	retrograde	10024 May 22 09:40	18° \mathring{N} 07'51	
morning rise	10017 Nov 19 15:42	20° \mathring{M} 25'16			10024 Jul 25 14:47	15° \mathring{R} \mathring{N}	
retrograde	10018 Mar 04 01:38	28° \mathring{M} 18'34		opposition	10024 Jul 28 17:16	14° \mathring{N} 45'15	1°46'14
opposition	10018 May 10 19:41	24° \mathring{M} 52'08	1°53'35	min. Earth dist.	10024 Jul 29 00:11	14° \mathring{N} 43'53	8.39407 AU
min. Earth dist.	10018 May 10 21:18	24° \mathring{M} 51'49	8.32639 AU	direct	10024 Oct 05 19:18	11° \mathring{N} 18'19	
direct	10018 Jul 17 09:16	21° \mathring{M} 25'56			10024 Dec 13 02:57	15° \mathring{N}	
evening set	10018 Oct 29 01:48	29° \mathring{M} 16'50		evening set	10025 Jan 19 08:18	19° \mathring{N} 11'54	
	10018 Nov 03 20:48	0° \mathring{X}					

conjunction	10025 Feb 05 21:02	21° \approx 22'59	1°16'12			10031 Feb 17 12:04	0° \mathcal{B}
minimum elong	10025 Feb 05 21:05	21° \approx 23'00	1°16'30	evening set		10031 Apr 06 10:38	5° \mathcal{B} 02'19
max. Earth dist.	10025 Feb 05 12:06	21° \approx 20'11	10.41365 AU				
morning rise	10025 Feb 23 06:21	23° \approx 33'04		conjunction		10031 Apr 23 08:31	7° \mathcal{B} 05'50 -1°05'57
	10025 Apr 29 07:21	0° \mathcal{H}		minimum elong		10031 Apr 23 08:29	7° \mathcal{B} 05'50 1°06'11
retrograde	10025 Jun 04 15:01	1° \mathcal{H} 09'47		max. Earth dist.		10031 Apr 23 08:28	7° \mathcal{B} 05'50 10.68904 AU
	10025 Jul 11 13:24	30° $\mathcal{R}\approx$		morning rise		10031 May 10 04:58	9° \mathcal{B} 08'56
opposition	10025 Aug 11 02:48	27° \approx 47'53	1°21'44			10031 Jul 08 00:09	15° \mathcal{B}
min. Earth dist.	10025 Aug 11 10:09	27° \approx 46'27	8.43560 AU	retrograde		10031 Aug 19 13:43	16° \mathcal{B} 30'36
direct	10025 Oct 19 11:16	24° \approx 21'27				10031 Oct 02 09:39	15° $\mathcal{R}\mathcal{B}$
	10026 Jan 14 07:19	0° \mathcal{H}		opposition		10031 Oct 27 23:02	13° \mathcal{B} 10'06 -1°33'10
evening set	10026 Feb 01 21:06	2° \mathcal{H} 11'51		min. Earth dist.		10031 Oct 27 21:51	13° \mathcal{B} 10'19 8.70759 AU
				direct		10032 Jan 06 01:17	9° \mathcal{B} 47'57
conjunction	10026 Feb 19 07:40	4° \mathcal{H} 21'50	0°54'44			10032 Mar 29 13:11	15° \mathcal{B}
minimum elong	10026 Feb 19 07:42	4° \mathcal{H} 21'51	0°54'57	evening set		10032 Apr 17 19:39	17° \mathcal{B} 13'14
max. Earth dist.	10026 Feb 18 22:38	4° \mathcal{H} 19'01	10.45776 AU				
morning rise	10026 Mar 08 14:53	6° \mathcal{H} 30'48		conjunction		10032 May 04 15:33	19° \mathcal{B} 15'45 -1°24'42
retrograde	10026 Jun 17 16:17	14° \mathcal{H} 03'54		minimum elong		10032 May 04 15:31	19° \mathcal{B} 15'44 1°25'01
opposition	10026 Aug 24 10:58	10° \mathcal{H} 42'35	0°53'21	max. Earth dist.		10032 May 04 17:46	19° \mathcal{B} 16'25 10.72313 AU
min. Earth dist.	10026 Aug 24 17:35	10° \mathcal{H} 41'18	8.48133 AU	morning rise		10032 May 21 10:38	21° \mathcal{B} 18'01
direct	10026 Nov 02 02:10	7° \mathcal{H} 16'47		retrograde		10032 Aug 31 02:31	28° \mathcal{B} 39'18
evening set	10027 Feb 15 04:47	15° \mathcal{H} 03'22		opposition		10032 Nov 08 19:40	25° \mathcal{B} 18'35 -1°53'55
				min. Earth dist.		10032 Nov 08 16:13	25° \mathcal{B} 19'14 8.73806 AU
conjunction	10027 Mar 04 12:58	17° \mathcal{H} 12'05	0°30'42	direct		10033 Jan 17 20:29	21° \mathcal{B} 57'05
minimum elong	10027 Mar 04 13:00	17° \mathcal{H} 12'05	0°30'50	evening set		10033 Apr 30 01:59	29° \mathcal{B} 19'05
max. Earth dist.	10027 Mar 04 05:18	17° \mathcal{H} 09'42	10.50529 AU			10033 May 05 18:22	0° \mathcal{H}
morning rise	10027 Mar 21 17:56	19° \mathcal{H} 19'50					
retrograde	10027 Jun 30 15:07	26° \mathcal{H} 49'39		conjunction		10033 May 16 20:25	1° \mathcal{H} 20'49 -1°39'34
opposition	10027 Sep 06 17:23	23° \mathcal{H} 28'46	0°22'37	minimum elong		10033 May 16 20:24	1° \mathcal{H} 20'49 1°39'56
min. Earth dist.	10027 Sep 06 22:16	23° \mathcal{H} 27'49	8.52971 AU	max. Earth dist.		10033 May 17 01:17	1° \mathcal{H} 22'18 10.74898 AU
direct	10027 Nov 15 14:31	20° \mathcal{H} 03'42		morning rise		10033 Jun 02 14:32	3° \mathcal{H} 22'30
evening set	10028 Feb 28 07:19	27° \mathcal{H} 45'58		retrograde		10033 Sep 12 16:36	10° \mathcal{H} 44'03
				opposition		10033 Nov 21 14:48	7° \mathcal{H} 23'03 -2°09'30
conjunction	10028 Mar 16 13:04	29° \mathcal{H} 53'22	0°05'27	min. Earth dist.		10033 Nov 21 09:26	7° \mathcal{H} 24'04 8.75964 AU
minimum elong	10028 Mar 16 13:04	29° \mathcal{H} 53'23	0°05'30	direct		10034 Jan 30 12:42	4° \mathcal{H} 02'09
behind sun begin	10028 Mar 16 06:13	29° \mathcal{H} 51'17		evening set		10034 May 12 06:21	11° \mathcal{H} 21'27
behind sun end	10028 Mar 16 19:55	29° \mathcal{H} 55'29					
max. Earth dist.	10028 Mar 16 07:43	29° \mathcal{H} 51'45	10.55439 AU	conjunction		10034 May 28 23:55	13° \mathcal{H} 22'42 -1°49'59
	10028 Mar 17 10:27	0° \mathcal{Y}		minimum elong		10034 May 28 23:53	13° \mathcal{H} 22'41 1°50'23
morning rise	10028 Apr 02 15:39	1° \mathcal{Y} 59'52		max. Earth dist.		10034 May 29 06:25	13° \mathcal{H} 24'41 10.76551 AU
desc. node	10028 Jun 05 00:51	8° \mathcal{Y} 13'59		morning rise		10034 Jun 14 17:50	15° \mathcal{H} 24'06
retrograde	10028 Jul 12 13:20	9° \mathcal{Y} 26'46		retrograde		10034 Sep 25 07:29	22° \mathcal{H} 46'30
opposition	10028 Sep 18 21:45	6° \mathcal{Y} 06'11	-0°08'50	opposition		10034 Dec 04 09:05	19° \mathcal{H} 25'10 -2°19'20
min. Earth dist.	10028 Sep 19 00:50	6° \mathcal{Y} 05'36	8.57873 AU	min. Earth dist.		10034 Dec 04 02:48	19° \mathcal{H} 26'21 8.77144 AU
direct	10028 Nov 27 21:27	2° \mathcal{Y} 41'52		direct		10035 Feb 12 00:58	16° \mathcal{H} 04'43
evening set	10029 Mar 12 04:53	10° \mathcal{Y} 19'38		evening set		10035 May 24 09:32	23° \mathcal{H} 21'59
conjunction	10029 Mar 29 08:03	12° \mathcal{Y} 25'43	-0°19'56	conjunction		10035 Jun 10 02:54	25° \mathcal{H} 23'04 -1°55'32
minimum elong	10029 Mar 29 08:02	12° \mathcal{Y} 25'43	0°19'59	minimum elong		10035 Jun 10 02:53	25° \mathcal{H} 23'03 1°55'57
max. Earth dist.	10029 Mar 29 05:00	12° \mathcal{Y} 24'47	10.60284 AU	max. Earth dist.		10035 Jun 10 10:07	25° \mathcal{H} 25'15 10.77205 AU
morning rise	10029 Apr 15 08:19	14° \mathcal{Y} 30'59		morning rise		10035 Jun 26 21:33	27° \mathcal{H} 24'31
retrograde	10029 Jul 25 07:17	21° \mathcal{Y} 55'29				10035 Jul 19 17:07	0° \mathcal{G}
opposition	10029 Oct 02 00:10	18° \mathcal{Y} 35'03	-0°39'31	retrograde		10035 Oct 07 20:24	4° \mathcal{G} 48'19
min. Earth dist.	10029 Oct 02 01:54	18° \mathcal{Y} 34'44	8.62608 AU	opposition		10035 Dec 17 02:37	1° \mathcal{G} 26'34 -2°23'03
direct	10029 Dec 11 01:42	15° \mathcal{Y} 11'30		min. Earth dist.		10035 Dec 16 19:51	1° \mathcal{G} 27'51 8.77291 AU
evening set	10030 Mar 24 21:52	22° \mathcal{Y} 44'50				10036 Jan 05 20:01	30° $\mathcal{R}\mathcal{H}$
				direct		10036 Feb 24 13:14	28° \mathcal{H} 06'26
conjunction	10030 Apr 10 22:17	24° \mathcal{Y} 49'34	-0°44'04			10036 Apr 12 13:28	0° \mathcal{G}
minimum elong	10030 Apr 10 22:15	24° \mathcal{Y} 49'33	0°44'12	evening set		10036 Jun 04 12:37	5° \mathcal{G} 22'25
max. Earth dist.	10030 Apr 10 20:48	24° \mathcal{Y} 49'06	10.64835 AU				
morning rise	10030 Apr 27 20:28	26° \mathcal{Y} 53'40		conjunction		10036 Jun 21 06:41	7° \mathcal{G} 23'40 -1°56'02
	10030 May 25 04:40	0° \mathcal{B}		minimum elong		10036 Jun 21 06:41	7° \mathcal{G} 23'40 1°56'27
retrograde	10030 Aug 06 22:56	4° \mathcal{B} 16'26		max. Earth dist.		10036 Jun 21 14:38	7° \mathcal{G} 26'05 10.76829 AU
opposition	10030 Oct 15 00:35	0° \mathcal{B} 56'02	-1°08'02	morning rise		10036 Jul 08 02:45	9° \mathcal{G} 25'28
min. Earth dist.	10030 Oct 15 01:11	0° \mathcal{B} 55'55	8.66965 AU	retrograde		10036 Oct 19 11:51	16° \mathcal{G} 51'10
	10030 Oct 27 10:29	30° $\mathcal{R}\mathcal{Y}$		opposition		10036 Dec 28 19:36	13° \mathcal{G} 28'55 -2°20'31
direct	10030 Dec 24 03:26	27° \mathcal{Y} 33'11		min. Earth dist.		10036 Dec 28 12:06	13° \mathcal{G} 30'21 8.76396 AU

direct	10037 Mar 08 01:14	10° 2 08'58	direct	10043 May 21 09:40	24° 7 01'46
evening set	10037 Jun 16 16:27	17° 2 24'24		10043 Aug 17 18:38	0° 2
			asc. node	10043 Aug 19 07:10	0° 2 10'34
conjunction	10037 Jul 03 12:07	19° 2 26'10 -1°51'25	evening set	10043 Aug 30 11:04	1° 2 30'05
minimum elong	10037 Jul 03 12:09	19° 2 26'11 1°51'49			
max. Earth dist.	10037 Jul 03 21:36	19° 2 29'03 10.75438 AU	conjunction	10043 Sep 17 00:32	3° 2 39'22 0°02'00
morning rise	10037 Jul 20 10:10	21° 2 28'39	minimum elong	10043 Sep 17 00:31	3° 2 39'22 0°01'59
retrograde	10037 Nov 01 05:57	28° 2 56'38	behind sun begin	10043 Sep 16 17:18	3° 2 37'10
opposition	10038 Jan 10 12:47	25° 2 33'51 -2°11'46	behind sun end	10043 Sep 17 07:44	3° 2 41'34
min. Earth dist.	10038 Jan 10 04:10	25° 2 35'29 8.74503 AU	max. Earth dist.	10043 Sep 17 05:44	3° 2 40'57 10.51844 AU
direct	10038 Mar 20 11:36	22° 2 13'58	morning rise	10043 Oct 04 16:58	5° 2 49'36
evening set	10038 Jun 28 21:55	29° 2 29'35	retrograde	10044 Jan 17 18:22	13° 2 34'48
	10038 Jul 03 03:37	0° 2	opposition	10044 Mar 26 16:20	10° 2 09'05 0°18'32
			min. Earth dist.	10044 Mar 26 12:55	10° 2 09'46 8.49290 AU
conjunction	10038 Jul 15 19:50	1° 2 32'10 -1°41'51	direct	10044 Jun 02 06:19	6° 2 46'14
minimum elong	10038 Jul 15 19:52	1° 2 32'11 1°42'14	evening set	10044 Sep 11 19:37	14° 2 19'12
max. Earth dist.	10038 Jul 16 06:13	1° 2 35'20 10.73102 AU			
morning rise	10038 Aug 01 20:31	3° 2 35'36	conjunction	10044 Sep 29 11:28	16° 2 29'49 0°27'37
retrograde	10038 Nov 14 01:43	11° 2 06'13	minimum elong	10044 Sep 29 11:27	16° 2 29'49 0°27'43
opposition	10039 Jan 23 06:26	7° 2 42'53 -1°57'06	max. Earth dist.	10044 Sep 29 13:43	16° 2 30'31 10.46776 AU
min. Earth dist.	10039 Jan 22 21:34	7° 2 44'34 8.71706 AU	morning rise	10044 Oct 17 05:59	18° 2 41'17
direct	10039 Apr 01 22:18	4° 2 22'52	retrograde	10045 Jan 30 05:10	26° 2 29'10
evening set	10039 Jul 11 06:22	11° 2 39'30	opposition	10045 Apr 08 19:01	23° 2 03'13 0°49'46
			min. Earth dist.	10045 Apr 08 17:54	23° 2 03'26 8.44336 AU
conjunction	10039 Jul 28 07:00	13° 2 43'11 -1°27'39	direct	10045 Jun 15 07:22	19° 2 39'29
minimum elong	10039 Jul 28 07:02	13° 2 43'11 1°27'59	evening set	10045 Sep 25 09:48	27° 2 17'28
max. Earth dist.	10039 Jul 28 16:53	13° 2 46'11 10.69931 AU			
	10039 Aug 07 19:45	15° 2	conjunction	10045 Oct 13 03:30	29° 2 29'16 0°52'07
morning rise	10039 Aug 14 10:55	15° 2 47'49	minimum elong	10045 Oct 13 03:28	29° 2 29'16 0°52'18
retrograde	10039 Nov 27 00:15	23° 2 21'13	max. Earth dist.	10045 Oct 13 02:54	29° 2 29'05 10.42000 AU
opposition	10040 Feb 05 00:47	19° 2 57'21 -1°37'03		10045 Oct 17 06:07	0° 2
min. Earth dist.	10040 Feb 04 16:45	19° 2 58'54 8.68135 AU	morning rise	10045 Oct 30 23:24	1° 2 41'45
direct	10040 Apr 13 09:29	16° 2 37'04	retrograde	10046 Feb 12 18:03	9° 2 31'49
evening set	10040 Jul 22 18:26	23° 2 55'32	opposition	10046 Apr 21 23:49	6° 2 05'46 1°18'48
			min. Earth dist.	10046 Apr 22 00:50	6° 2 05'33 8.39860 AU
conjunction	10040 Aug 08 22:08	26° 2 00'28 -1°09'21	direct	10046 Jun 28 11:52	2° 2 41'07
minimum elong	10040 Aug 08 22:11	26° 2 00'29 1°09'38	evening set	10046 Oct 09 05:03	10° 2 24'07
max. Earth dist.	10040 Aug 09 06:48	26° 2 03'07 10.66066 AU			
morning rise	10040 Aug 26 05:33	28° 2 06'29	conjunction	10046 Oct 27 00:03	12° 2 36'53 1°14'09
	10040 Sep 11 12:23	0° 2	minimum elong	10046 Oct 27 00:01	12° 2 36'52 1°14'26
retrograde	10040 Dec 09 00:19	5° 2 42'49	max. Earth dist.	10046 Oct 26 21:10	12° 2 35'59 10.37842 AU
opposition	10041 Feb 16 20:23	2° 2 18'27 -1°12'21	morning rise	10046 Nov 13 20:29	14° 2 50'06
min. Earth dist.	10041 Feb 16 13:32	2° 2 19'46 8.63948 AU		10046 Nov 15 04:52	15° 2
	10041 Mar 21 18:41	30° 2 42	retrograde	10047 Feb 26 08:27	22° 2 41'39
direct	10041 Apr 25 22:55	28° 2 57'43	opposition	10047 May 05 06:40	19° 2 15'37 1°44'00
	10041 May 30 13:54	0° 2	min. Earth dist.	10047 May 05 09:16	19° 2 15'06 8.36144 AU
evening set	10041 Aug 04 10:42	6° 2 18'47	direct	10047 Jul 11 20:34	15° 2 50'06
			evening set	10047 Oct 23 04:28	23° 2 37'49
conjunction	10041 Aug 21 17:46	8° 2 25'08 -0°47'41			
minimum elong	10041 Aug 21 17:48	8° 2 25'08 0°47'53	conjunction	10047 Nov 10 00:05	25° 2 51'14 1°32'26
max. Earth dist.	10041 Aug 22 01:48	8° 2 27'35 10.61660 AU	minimum elong	10047 Nov 10 00:03	25° 2 51'13 1°32'47
morning rise	10041 Sep 08 04:33	10° 2 32'34	max. Earth dist.	10047 Nov 09 19:45	25° 2 49'52 10.34553 AU
retrograde	10041 Dec 22 02:25	18° 2 11'58	morning rise	10047 Nov 27 20:10	28° 2 04'51
opposition	10042 Mar 01 17:23	14° 2 47'04 -0°44'00		10047 Dec 13 20:34	0° 2 4
min. Earth dist.	10042 Mar 01 11:19	14° 2 48'15 8.59309 AU	retrograde	10048 Mar 10 23:11	5° 2 57'04
direct	10042 May 08 16:03	11° 2 25'46	opposition	10048 May 17 15:14	2° 2 31'10 2°03'53
evening set	10042 Aug 17 08:07	18° 2 50'06	min. Earth dist.	10048 May 17 18:42	2° 2 30'29 8.33403 AU
				10048 Jun 21 21:00	30° 2 4
conjunction	10042 Sep 03 18:34	20° 2 57'56 -0°23'35	direct	10048 Jul 24 08:47	29° 2 04'54
minimum elong	10042 Sep 03 18:35	20° 2 57'56 0°23'41		10048 Aug 25 14:26	0° 2 4
max. Earth dist.	10042 Sep 04 01:42	21° 2 00'07 10.56871 AU	evening set	10048 Nov 05 06:44	6° 2 56'38
morning rise	10042 Sep 21 08:24	23° 2 06'48			
	10042 Dec 04 04:11	0° 2	conjunction	10048 Nov 23 02:23	9° 2 10'24 1°45'54
retrograde	10043 Jan 04 09:13	0° 2 49'09	minimum elong	10048 Nov 23 02:21	9° 2 10'24 1°46'18
	10043 Feb 04 19:04	30° 2 4	max. Earth dist.	10048 Nov 22 20:51	9° 2 08'40 10.32331 AU
opposition	10043 Mar 14 15:52	27° 2 23'48 -0°13'14	morning rise	10048 Dec 10 21:31	11° 2 24'07
min. Earth dist.	10043 Mar 14 10:48	27° 2 24'47 8.54372 AU	retrograde	10049 Mar 24 14:34	19° 2 16'04

opposition	10049 May 31 01:17	15° \mathbb{A} 50'28	2°17'13	min. Earth dist.	10055 Aug 18 21:15	4° \mathbb{H} 59'16	8.45602 AU
min. Earth dist.	10049 May 31 05:48	15° \mathbb{A} 49'33	8.31792 AU	direct	10055 Oct 27 04:52	1° \mathbb{H} 33'50	
direct	10049 Aug 06 22:57	12° \mathbb{A} 23'32		evening set	10056 Feb 09 09:27	9° \mathbb{A} 21'48	
evening set	10049 Nov 19 10:23	20° \mathbb{A} 18'19					
				conjunction	10056 Feb 26 18:57	11° \mathbb{H} 31'04	0°42'09
conjunction	10049 Dec 07 05:32	22° \mathbb{A} 32'10	1°53'43	minimum elong	10056 Feb 26 18:59	11° \mathbb{H} 31'05	0°42'19
minimum elong	10049 Dec 07 05:30	22° \mathbb{A} 32'09	1°54'09	max. Earth dist.	10056 Feb 26 12:26	11° \mathbb{H} 29'02	10.48066 AU
max. Earth dist.	10049 Dec 06 22:26	22° \mathbb{A} 29'56	10.31297 AU	morning rise	10056 Mar 15 00:54	13° \mathbb{H} 39'20	
morning rise	10049 Dec 24 23:21	24° \mathbb{A} 45'41		retrograde	10056 Jun 23 23:45	21° \mathbb{H} 10'14	
	10050 Feb 10 22:08	0° \mathbb{B}		opposition	10056 Aug 30 22:21	17° \mathbb{H} 48'47	0°37'10
retrograde	10050 Apr 07 06:32	2° \mathbb{B} 36'20		min. Earth dist.	10056 Aug 31 03:27	17° \mathbb{H} 47'48	8.50628 AU
	10050 Jun 03 07:31	30° \mathbb{R} \mathbb{A}		direct	10056 Nov 08 16:35	14° \mathbb{H} 23'03	
opposition	10050 Jun 13 12:20	29° \mathbb{A} 11'11	2°23'11	evening set	10057 Feb 21 13:55	22° \mathbb{H} 06'51	
min. Earth dist.	10050 Jun 13 18:13	29° \mathbb{A} 09'59	8.31381 AU				
direct	10050 Aug 20 14:20	25° \mathbb{A} 43'44		conjunction	10057 Mar 10 20:50	24° \mathbb{H} 14'49	0°17'20
	10050 Nov 01 19:29	0° \mathbb{B}		minimum elong	10057 Mar 10 20:51	24° \mathbb{H} 14'49	0°17'26
evening set	10050 Dec 03 14:01	3° \mathbb{B} 40'25		max. Earth dist.	10057 Mar 10 15:04	24° \mathbb{H} 13'02	10.53242 AU
				morning rise	10057 Mar 28 00:35	26° \mathbb{H} 21'50	
conjunction	10050 Dec 21 08:10	5° \mathbb{B} 54'03	1°55'25		10057 Apr 29 04:17	0° \mathbb{Y}	
minimum elong	10050 Dec 21 08:10	5° \mathbb{B} 54'03	1°55'51	retrograde	10057 Jul 06 21:15	3° \mathbb{Y} 49'31	
max. Earth dist.	10050 Dec 20 23:27	5° \mathbb{B} 51'18	10.31487 AU	opposition	10057 Sep 13 03:01	0° \mathbb{Y} 28'37	0°05'55
morning rise	10051 Jan 08 00:23	8° \mathbb{B} 07'08		min. Earth dist.	10057 Sep 13 07:06	0° \mathbb{Y} 27'50	8.55856 AU
retrograde	10051 Apr 20 19:30	15° \mathbb{B} 55'33			10057 Sep 19 07:30	30° \mathbb{R} \mathbb{H}	
opposition	10051 Jun 26 23:45	12° \mathbb{B} 30'57	2°21'26	direct	10057 Nov 22 01:00	27° \mathbb{H} 03'46	
min. Earth dist.	10051 Jun 27 06:59	12° \mathbb{B} 29'30	8.32180 AU	desc. node	10057 Nov 22 17:14	27° \mathbb{H} 03'48	
direct	10051 Sep 03 09:00	9° \mathbb{B} 03'12			10058 Jan 21 22:46	0° \mathbb{Y}	
evening set	10051 Dec 17 15:56	17° \mathbb{B} 00'29		evening set	10058 Mar 06 13:25	4° \mathbb{Y} 43'12	
conjunction	10052 Jan 04 08:46	19° \mathbb{B} 13'38	1°50'55	conjunction	10058 Mar 23 17:39	6° \mathbb{Y} 49'48	-0°08'08
minimum elong	10052 Jan 04 08:47	19° \mathbb{B} 13'38	1°51'20	minimum elong	10058 Mar 23 17:39	6° \mathbb{Y} 49'48	0°08'09
max. Earth dist.	10052 Jan 03 22:49	19° \mathbb{B} 10'29	10.32888 AU	behind sun begin	10058 Mar 23 11:20	6° \mathbb{Y} 47'52	
morning rise	10052 Jan 21 23:14	21° \mathbb{B} 26'04		behind sun end	10058 Mar 23 23:58	6° \mathbb{Y} 51'43	
retrograde	10052 May 03 05:34	29° \mathbb{B} 11'32		max. Earth dist.	10058 Mar 23 13:20	6° \mathbb{Y} 48'29	10.58478 AU
opposition	10052 Jul 09 11:08	25° \mathbb{B} 47'32	2°12'07	morning rise	10058 Apr 09 19:09	8° \mathbb{Y} 55'33	
min. Earth dist.	10052 Jul 09 18:50	25° \mathbb{B} 45'59	8.34142 AU	retrograde	10058 Jul 19 15:07	16° \mathbb{Y} 20'36	
direct	10052 Sep 16 04:28	22° \mathbb{B} 19'44		opposition	10058 Sep 26 05:55	13° \mathbb{Y} 00'07	-0°25'15
	10052 Dec 28 09:47	0° \mathbb{A}		min. Earth dist.	10058 Sep 26 08:09	12° \mathbb{Y} 59'41	8.61033 AU
evening set	10052 Dec 30 14:41	0° \mathbb{A} 16'15		direct	10058 Dec 05 07:42	9° \mathbb{Y} 36'13	
				evening set	10059 Mar 19 08:01	17° \mathbb{Y} 11'12	
conjunction	10053 Jan 17 06:04	2° \mathbb{A} 28'42	1°40'33				
minimum elong	10053 Jan 17 06:06	2° \mathbb{A} 28'42	1°40'55	conjunction	10059 Apr 05 09:39	19° \mathbb{Y} 16'26	-0°32'53
max. Earth dist.	10053 Jan 16 20:04	2° \mathbb{A} 25'32	10.35415 AU	minimum elong	10059 Apr 05 09:38	19° \mathbb{Y} 16'25	0°32'59
morning rise	10053 Feb 03 18:39	4° \mathbb{A} 40'18		max. Earth dist.	10059 Apr 05 07:48	19° \mathbb{Y} 15'52	10.63529 AU
retrograde	10053 May 16 13:40	12° \mathbb{A} 22'18		morning rise	10059 Apr 22 08:53	21° \mathbb{Y} 20'58	
opposition	10053 Jul 22 21:48	8° \mathbb{A} 58'55	1°55'52	retrograde	10059 Aug 01 08:42	28° \mathbb{Y} 44'02	
min. Earth dist.	10053 Jul 23 05:03	8° \mathbb{A} 57'28	8.37147 AU	opposition	10059 Oct 09 06:53	25° \mathbb{Y} 23'49	-0°54'52
direct	10053 Sep 29 22:44	5° \mathbb{A} 31'18		min. Earth dist.	10059 Oct 09 06:46	25° \mathbb{Y} 23'50	8.65921 AU
evening set	10054 Jan 13 09:41	13° \mathbb{A} 25'52		direct	10059 Dec 18 10:26	22° \mathbb{Y} 00'53	
	10054 Jan 26 00:16	15° \mathbb{A}		evening set	10060 Mar 30 22:28	29° \mathbb{Y} 31'32	
					10060 Apr 03 20:54	0° \mathbb{B}	
conjunction	10054 Jan 30 23:25	15° \mathbb{A} 37'27	1°24'57				
minimum elong	10054 Jan 30 23:28	15° \mathbb{A} 37'27	1°25'16	conjunction	10060 Apr 16 21:38	1° \mathbb{B} 35'31	-0°55'54
max. Earth dist.	10054 Jan 30 14:17	15° \mathbb{A} 34'34	10.38917 AU	minimum elong	10060 Apr 16 21:36	1° \mathbb{B} 35'30	0°56'05
morning rise	10054 Feb 17 09:52	17° \mathbb{A} 48'02		max. Earth dist.	10060 Apr 16 22:30	1° \mathbb{B} 35'47	10.68166 AU
retrograde	10054 May 29 20:26	25° \mathbb{A} 26'16		morning rise	10060 May 03 18:46	3° \mathbb{B} 38'56	
opposition	10054 Aug 05 07:21	22° \mathbb{A} 03'32	1°33'42	retrograde	10060 Aug 13 01:18	11° \mathbb{B} 00'37	
min. Earth dist.	10054 Aug 05 13:45	22° \mathbb{A} 02'16	8.41032 AU	opposition	10060 Oct 21 05:53	7° \mathbb{B} 40'32	-1°21'40
direct	10054 Oct 13 14:33	18° \mathbb{A} 36'22		min. Earth dist.	10060 Oct 21 04:11	7° \mathbb{B} 40'51	8.70300 AU
evening set	10055 Jan 27 00:07	26° \mathbb{A} 28'00		direct	10060 Dec 30 08:03	4° \mathbb{B} 18'31	
				evening set	10061 Apr 12 09:17	11° \mathbb{B} 45'10	
conjunction	10055 Feb 13 11:55	28° \mathbb{A} 38'31	1°05'06				
minimum elong	10055 Feb 13 11:57	28° \mathbb{A} 38'32	1°05'21	conjunction	10061 Apr 29 06:07	13° \mathbb{B} 48'01	-1°16'11
max. Earth dist.	10055 Feb 13 04:09	28° \mathbb{A} 36'05	10.43208 AU	minimum elong	10061 Apr 29 06:05	13° \mathbb{B} 48'01	1°16'28
	10055 Feb 24 08:41	0° \mathbb{H}		max. Earth dist.	10061 Apr 29 08:34	13° \mathbb{B} 48'46	10.72180 AU
morning rise	10055 Mar 02 20:06	0° \mathbb{H} 47'59			10061 May 09 02:07	15° \mathbb{B}	
retrograde	10055 Jun 11 23:29	8° \mathbb{H} 22'26		morning rise	10061 May 16 01:38	15° \mathbb{B} 50'31	
opposition	10055 Aug 18 15:41	5° \mathbb{H} 00'22	1°06'57	retrograde	10061 Aug 25 14:45	23° \mathbb{B} 11'27	

opposition	10061 Nov 03 03:20	19° 8 51'23	-1°44'32		10068 Feb 19 08:40	30° ℞ ☾
min. Earth dist.	10061 Nov 03 00:37	19° 8 51'54	8.73966 AU	direct	10068 Mar 26 11:00	28° ☿ 56'05
direct	10062 Jan 12 03:44	16° 8 30'09			10068 Apr 30 19:14	0° ♈
evening set	10062 Apr 24 16:54	23° 8 53'16		evening set	10068 Jul 04 20:09	6° ♈ 12'18
conjunction	10062 May 11 11:48	25° 8 55'11	-1°32'56	conjunction	10068 Jul 21 19:25	8° ♈ 15'28 -1°34'47
minimum elong	10062 May 11 11:46	25° 8 55'11	1°33'17	minimum elong	10068 Jul 21 19:27	8° ♈ 15'29 1°35'09
max. Earth dist.	10062 May 11 15:17	25° 8 56'15	10.75383 AU	max. Earth dist.	10068 Jul 22 03:41	8° ♈ 17'59 10.71325 AU
morning rise	10062 May 28 06:16	27° 8 56'58		morning rise	10068 Aug 07 21:48	10° ♈ 19'33
	10062 Jun 15 00:47	0° ♈			10068 Sep 20 19:09	15° ♈
retrograde	10062 Sep 07 04:04	5° ♈ 17'51		retrograde	10068 Nov 20 06:46	17° ♈ 51'47
opposition	10062 Nov 15 23:19	1° ♈ 57'38	-2°02'36		10069 Jan 22 10:45	15° ♈ ♈
min. Earth dist.	10062 Nov 15 19:34	1° ♈ 58'20	8.76728 AU	opposition	10069 Jan 29 09:48	14° ♈ 28'06 -1°47'02
	10062 Dec 13 18:44	30° ♈ 8		min. Earth dist.	10069 Jan 29 02:44	14° ♈ 29'27 8.69433 AU
direct	10063 Jan 24 21:48	28° 8 37'03		direct	10069 Apr 07 22:55	11° ♈ 07'48
	10063 Mar 06 22:25	0° ♈			10069 Jun 16 13:34	15° ♈
evening set	10063 May 06 22:08	5° ♈ 57'09		evening set	10069 Jul 17 06:20	18° ♈ 25'33
conjunction	10063 May 23 15:50	7° ♈ 58'26	-1°45'29	conjunction	10069 Aug 03 08:40	20° ♈ 29'57 -1°18'22
minimum elong	10063 May 23 15:49	7° ♈ 58'25	1°45'53	minimum elong	10069 Aug 03 08:42	20° ♈ 29'58 1°18'41
max. Earth dist.	10063 May 23 20:40	7° ♈ 59'54	10.77593 AU	max. Earth dist.	10069 Aug 03 17:26	20° ♈ 32'38 10.67224 AU
morning rise	10063 Jun 09 09:50	9° ♈ 59'47		morning rise	10069 Aug 20 14:16	22° ♈ 35'22
retrograde	10063 Sep 19 17:30	17° ♈ 21'14			10069 Nov 18 18:01	0° ♈
opposition	10063 Nov 28 17:51	14° ♈ 00'42	-2°15'11	retrograde	10069 Dec 03 06:17	0° ♈ 10'38
min. Earth dist.	10063 Nov 28 12:39	14° ♈ 01'40	8.78400 AU		10069 Dec 17 19:10	30° ♈ ♈
direct	10064 Feb 06 12:26	10° ♈ 40'37		opposition	10070 Feb 11 04:50	26° ♈ 46'11 -1°24'27
evening set	10064 May 18 01:45	17° ♈ 58'24		min. Earth dist.	10070 Feb 10 21:40	26° ♈ 47'34 8.64983 AU
				direct	10070 Apr 20 11:08	23° ♈ 25'21
conjunction	10064 Jun 03 19:08	19° ♈ 59'23	-1°53'22		10070 Jul 23 11:31	0° ♈
minimum elong	10064 Jun 03 19:07	19° ♈ 59'23	1°53'47	evening set	10070 Jul 29 20:27	0° ♈ 45'25
max. Earth dist.	10064 Jun 04 01:41	20° ♈ 01'23	10.78634 AU			
morning rise	10064 Jun 20 13:16	22° ♈ 00'38		conjunction	10070 Aug 16 02:03	2° ♈ 51'13 -0°58'12
retrograde	10064 Oct 01 07:24	29° ♈ 23'21		minimum elong	10070 Aug 16 02:05	2° ♈ 51'14 0°58'26
opposition	10064 Dec 10 11:33	26° ♈ 02'22	-2°21'49	max. Earth dist.	10070 Aug 16 09:56	2° ♈ 53'38 10.62533 AU
min. Earth dist.	10064 Dec 10 05:08	26° ♈ 03'35	8.78829 AU	morning rise	10070 Sep 02 11:09	4° ♈ 58'06
direct	10065 Feb 18 01:30	22° ♈ 42'39		retrograde	10070 Dec 16 08:10	12° ♈ 36'31
evening set	10065 May 30 04:52	29° ♈ 58'55		opposition	10071 Feb 24 01:12	9° ♈ 11'22 -0°57'41
	10065 May 30 08:31	0° ☿		min. Earth dist.	10071 Feb 23 19:06	9° ♈ 12'34 8.60040 AU
conjunction	10065 Jun 15 22:34	1° ☿ 59'57	-1°56'16	direct	10071 May 03 01:47	5° ♈ 49'51
minimum elong	10065 Jun 15 22:34	1° ☿ 59'57	1°56'42	evening set	10071 Aug 11 15:33	13° ♈ 13'02
max. Earth dist.	10065 Jun 16 06:08	2° ☿ 02'15	10.78429 AU	conjunction	10071 Aug 29 00:24	15° ♈ 20'21 -0°35'07
morning rise	10065 Jul 02 17:38	4° ☿ 01'25		minimum elong	10071 Aug 29 00:25	15° ♈ 20'21 0°35'16
retrograde	10065 Oct 13 23:57	11° ☿ 25'59		max. Earth dist.	10071 Aug 29 06:29	15° ♈ 22'13 10.57449 AU
opposition	10065 Dec 23 04:55	8° ☿ 04'29	-2°22'15	morning rise	10071 Sep 15 12:55	17° ♈ 28'44
min. Earth dist.	10065 Dec 22 21:59	8° ☿ 05'48	8.78027 AU	retrograde	10071 Dec 29 13:14	25° ♈ 10'16
direct	10066 Mar 02 12:33	4° ☿ 44'55		opposition	10072 Mar 07 23:05	21° ♈ 44'33 -0°27'53
evening set	10066 Jun 11 08:26	12° ☿ 00'25		min. Earth dist.	10072 Mar 07 18:35	21° ♈ 45'26 8.54820 AU
				direct	10072 May 14 18:27	18° ♈ 22'13
conjunction	10066 Jun 28 03:10	14° ☿ 01'50	-1°54'04	evening set	10072 Aug 23 15:55	25° ♈ 49'16
minimum elong	10066 Jun 28 03:11	14° ☿ 01'51	1°54'30			
max. Earth dist.	10066 Jun 28 10:41	14° ☿ 04'07	10.77064 AU	conjunction	10072 Sep 10 03:55	27° ♈ 58'05 -0°10'08
morning rise	10066 Jul 15 00:06	16° ☿ 03'55		minimum elong	10072 Sep 10 03:55	27° ♈ 58'05 0°10'11
retrograde	10066 Oct 26 16:16	23° ☿ 30'42		behind sun begin	10072 Sep 09 22:12	27° ♈ 56'20
opposition	10067 Jan 04 22:18	20° ☿ 08'33	-2°16'27	behind sun end	10072 Sep 10 09:38	27° ♈ 59'50
min. Earth dist.	10067 Jan 04 15:38	20° ☿ 09'49	8.76111 AU	max. Earth dist.	10072 Sep 10 08:22	27° ♈ 59'26 10.52193 AU
direct	10067 Mar 14 22:45	16° ☿ 48'55			10072 Sep 26 17:12	0° ♈
evening set	10067 Jun 23 13:11	24° ☿ 04'24		morning rise	10072 Sep 27 19:24	0° ♈ 07'56
				retrograde	10073 Jan 10 19:48	7° ♈ 52'31
conjunction	10067 Jul 10 09:48	26° ☿ 06'32	-1°46'50	asc. node	10073 Feb 06 02:57	7° ♈ 17'27
minimum elong	10067 Jul 10 09:50	26° ☿ 06'33	1°47'14	opposition	10073 Mar 20 22:58	4° ♈ 26'18 0°03'39
max. Earth dist.	10067 Jul 10 17:24	26° ☿ 08'51	10.74657 AU	min. Earth dist.	10073 Mar 20 19:49	4° ♈ 26'56 8.49563 AU
morning rise	10067 Jul 27 09:18	28° ☿ 09'30		direct	10073 May 27 15:13	1° ♈ 03'09
	10067 Aug 12 07:33	0° ♈		evening set	10073 Sep 05 21:47	8° ♈ 34'37
retrograde	10067 Nov 08 09:22	5° ♈ 38'53				
opposition	10068 Jan 17 15:49	2° ♈ 15'59	-2°04'35	conjunction	10073 Sep 23 12:39	10° ♈ 44'51 0°15'42
min. Earth dist.	10068 Jan 17 09:06	2° ♈ 17'16	8.73200 AU	minimum elong	10073 Sep 23 12:39	10° ♈ 44'51 0°15'45

behind sun begin	10073 Sep 23 11:39	10° <u>♂</u> 44'33		evening set	10079 Nov 27 10:51	27° <u>♂</u> 47'27	
behind sun end	10073 Sep 23 13:38	10° <u>♂</u> 45'09					
max. Earth dist.	10073 Sep 23 16:05	10° <u>♂</u> 45'55	10.47008 AU	conjunction	10079 Dec 15 05:31	0° <u>♂</u> 01'21	1°55'16
morning rise	10073 Oct 11 06:28	12° <u>♂</u> 56'01		minimum elong	10079 Dec 15 05:31	0° <u>♂</u> 01'21	1°55'42
retrograde	10074 Jan 24 05:19	20° <u>♂</u> 43'27		max. Earth dist.	10079 Dec 14 22:28	29° <u>♂</u> 59'07	10.30761 AU
opposition	10074 Apr 03 00:53	17° <u>♂</u> 16'53	0°35'23		10079 Dec 15 01:15	0° <u>♂</u>	
min. Earth dist.	10074 Apr 02 22:35	17° <u>♂</u> 17'20	8.44520 AU	morning rise	10080 Jan 01 22:39	2° <u>♂</u> 14'49	
direct	10074 Jun 09 15:24	13° <u>♂</u> 52'54		retrograde	10080 Apr 13 23:45	10° <u>♂</u> 05'04	
evening set	10074 Sep 19 09:37	21° <u>♂</u> 29'10		opposition	10080 Jun 20 04:55	6° <u>♂</u> 40'23	2°23'01
				min. Earth dist.	10080 Jun 20 10:14	6° <u>♂</u> 39'19	8.31368 AU
conjunction	10074 Oct 07 02:46	23° <u>♂</u> 40'42	0°40'55	direct	10080 Aug 27 10:55	3° <u>♂</u> 13'04	
minimum elong	10074 Oct 07 02:45	23° <u>♂</u> 40'41	0°41'04	evening set	10080 Dec 10 14:32	11° <u>♂</u> 10'48	
max. Earth dist.	10074 Oct 07 04:50	23° <u>♂</u> 41'20	10.42147 AU				
morning rise	10074 Oct 24 22:09	25° <u>♂</u> 52'58		conjunction	10080 Dec 28 08:10	13° <u>♂</u> 24'18	1°53'34
	10074 Nov 30 13:29	0° <u>♂</u>		minimum elong	10080 Dec 28 08:11	13° <u>♂</u> 24'19	1°54'00
retrograde	10075 Feb 06 18:30	3° <u>♂</u> 42'48		max. Earth dist.	10080 Dec 28 00:44	13° <u>♂</u> 21'57	10.31993 AU
opposition	10075 Apr 16 04:50	0° <u>♂</u> 16'04	1°05'40	morning rise	10081 Jan 14 23:27	15° <u>♂</u> 37'10	
min. Earth dist.	10075 Apr 16 03:42	0° <u>♂</u> 16'18	8.39942 AU	retrograde	10081 Apr 27 12:55	23° <u>♂</u> 24'42	
	10075 Apr 19 13:16	30° <u>♂</u> 4		opposition	10081 Jul 03 17:05	20° <u>♂</u> 00'44	2°17'03
direct	10075 Jun 22 17:27	26° <u>♂</u> 51'15		min. Earth dist.	10081 Jul 03 22:56	19° <u>♂</u> 59'33	8.33174 AU
	10075 Aug 23 03:52	0° <u>♂</u>		direct	10081 Sep 10 05:38	16° <u>♂</u> 33'23	
evening set	10075 Oct 03 02:56	4° <u>♂</u> 32'33		evening set	10081 Dec 24 15:53	24° <u>♂</u> 30'51	
conjunction	10075 Oct 20 21:36	6° <u>♂</u> 45'07	1°04'16	conjunction	10082 Jan 11 08:09	26° <u>♂</u> 43'44	1°45'46
minimum elong	10075 Oct 20 21:33	6° <u>♂</u> 45'06	1°04'31	minimum elong	10082 Jan 11 08:11	26° <u>♂</u> 43'45	1°46'10
max. Earth dist.	10075 Oct 20 21:29	6° <u>♂</u> 45'05	10.37869 AU	max. Earth dist.	10082 Jan 11 00:04	26° <u>♂</u> 41'11	10.34359 AU
morning rise	10075 Nov 07 17:47	8° <u>♂</u> 58'14		morning rise	10082 Jan 28 21:30	28° <u>♂</u> 55'47	
	10076 Jan 04 21:53	15° <u>♂</u>			10082 Feb 06 16:12	0° <u>♂</u>	
retrograde	10076 Feb 20 09:53	16° <u>♂</u> 49'52		retrograde	10082 May 11 00:15	6° <u>♂</u> 39'53	
	10076 Apr 07 12:53	15° <u>♂</u>		opposition	10082 Jul 17 04:54	3° <u>♂</u> 16'38	2°03'48
opposition	10076 Apr 28 11:10	13° <u>♂</u> 23'12	1°32'52	min. Earth dist.	10082 Jul 17 11:43	3° <u>♂</u> 15'17	8.36010 AU
min. Earth dist.	10076 Apr 28 11:42	13° <u>♂</u> 23'06	8.36081 AU		10082 Sep 09 19:23	30° <u>♂</u> 4	
direct	10076 Jul 04 23:26	9° <u>♂</u> 57'37		direct	10082 Sep 23 23:56	29° <u>♂</u> 49'25	
	10076 Sep 22 19:53	15° <u>♂</u>			10082 Oct 08 05:22	0° <u>♂</u>	
evening set	10076 Oct 16 00:47	17° <u>♂</u> 43'47		evening set	10083 Jan 07 13:36	7° <u>♂</u> 45'21	
conjunction	10076 Nov 02 20:13	19° <u>♂</u> 57'07	1°24'27	conjunction	10083 Jan 25 04:07	9° <u>♂</u> 57'23	1°32'25
minimum elong	10076 Nov 02 20:10	19° <u>♂</u> 57'06	1°24'46	minimum elong	10083 Jan 25 04:10	9° <u>♂</u> 57'24	1°32'46
max. Earth dist.	10076 Nov 02 17:38	19° <u>♂</u> 56'18	10.34420 AU	max. Earth dist.	10083 Jan 24 19:00	9° <u>♂</u> 54'31	10.37649 AU
morning rise	10076 Nov 20 16:33	22° <u>♂</u> 10'46		morning rise	10083 Feb 11 15:28	12° <u>♂</u> 08'29	
	10077 Feb 24 23:48	0° <u>♂</u>			10083 Mar 07 23:11	15° <u>♂</u>	
retrograde	10077 Mar 05 00:58	0° <u>♂</u> 03'29		retrograde	10083 May 24 08:21	19° <u>♂</u> 48'46	
	10077 Mar 13 02:14	30° <u>♂</u>		opposition	10083 Jul 30 15:42	16° <u>♂</u> 26'14	1°44'07
opposition	10077 May 11 19:34	26° <u>♂</u> 37'06	1°55'23	min. Earth dist.	10083 Jul 30 23:12	16° <u>♂</u> 24'45	8.39629 AU
min. Earth dist.	10077 May 11 22:04	26° <u>♂</u> 36'36	8.33161 AU		10083 Aug 18 09:27	15° <u>♂</u>	
direct	10077 Jul 18 10:22	23° <u>♂</u> 10'50		direct	10083 Oct 07 17:41	12° <u>♂</u> 59'19	
	10077 Oct 21 16:33	0° <u>♂</u>			10083 Nov 26 02:12	15° <u>♂</u>	
evening set	10077 Oct 30 02:24	1° <u>♂</u> 01'25		evening set	10084 Jan 21 06:51	20° <u>♂</u> 52'45	
conjunction	10077 Nov 16 22:02	3° <u>♂</u> 15'14	1°40'16	conjunction	10084 Feb 07 19:26	23° <u>♂</u> 03'47	1°14'20
minimum elong	10077 Nov 16 22:00	3° <u>♂</u> 15'13	1°40'38	minimum elong	10084 Feb 07 19:28	23° <u>♂</u> 03'48	1°14'37
max. Earth dist.	10077 Nov 16 17:06	3° <u>♂</u> 13'41	10.32007 AU	max. Earth dist.	10084 Feb 07 09:46	23° <u>♂</u> 00'45	10.41589 AU
morning rise	10077 Dec 04 17:53	5° <u>♂</u> 29'08		morning rise	10084 Feb 25 04:45	25° <u>♂</u> 13'50	
retrograde	10078 Mar 18 16:42	13° <u>♂</u> 22'00			10084 Apr 08 13:24	0° <u>♂</u>	
opposition	10078 May 25 05:31	9° <u>♂</u> 56'04	2°11'51	retrograde	10084 Jun 05 11:35	2° <u>♂</u> 50'22	
min. Earth dist.	10078 May 25 09:38	9° <u>♂</u> 55'14	8.31351 AU		10084 Aug 05 08:09	30° <u>♂</u>	
direct	10078 Aug 01 00:11	6° <u>♂</u> 29'16		opposition	10084 Aug 12 01:11	29° <u>♂</u> 28'29	1°19'14
evening set	10078 Nov 13 06:20	14° <u>♂</u> 23'27		min. Earth dist.	10084 Aug 12 08:33	29° <u>♂</u> 27'02	8.43768 AU
				direct	10084 Oct 20 11:18	26° <u>♂</u> 02'04	
conjunction	10078 Dec 01 01:42	16° <u>♂</u> 37'27	1°50'45		10084 Dec 30 15:51	0° <u>♂</u>	
minimum elong	10078 Dec 01 01:41	16° <u>♂</u> 37'27	1°51'10	evening set	10085 Feb 02 19:11	3° <u>♂</u> 52'18	
max. Earth dist.	10078 Nov 30 19:20	16° <u>♂</u> 35'27	10.30765 AU				
morning rise	10078 Dec 18 20:26	18° <u>♂</u> 51'17		conjunction	10085 Feb 20 05:43	6° <u>♂</u> 02'14	0°52'35
retrograde	10079 Apr 01 08:51	26° <u>♂</u> 43'19		minimum elong	10085 Feb 20 05:45	6° <u>♂</u> 02'14	0°52'47
opposition	10079 Jun 07 16:50	23° <u>♂</u> 17'58	2°21'15	max. Earth dist.	10085 Feb 19 20:38	5° <u>♂</u> 59'24	10.45949 AU
min. Earth dist.	10079 Jun 07 21:45	23° <u>♂</u> 16'59	8.30744 AU	morning rise	10085 Mar 09 12:54	8° <u>♂</u> 11'09	
direct	10079 Aug 14 16:21	19° <u>♂</u> 50'50		retrograde	10085 Jun 18 14:02	15° <u>♂</u> 44'12	

opposition	10085 Aug 25 09:11	12° ♋ 22'54	0°50'35	max. Earth dist.	10091 May 06 17:38	21° ♋ 00'10	10.71648 AU
min. Earth dist.	10085 Aug 25 15:20	12° ♋ 21'42	8.48250 AU	morning rise	10091 May 23 09:40	23° ♋ 01'37	
direct	10085 Nov 03 01:20	8° ♋ 57'09			10091 Aug 11 15:35	0° ♊	
evening set	10086 Feb 16 02:44	16° ♋ 43'37		retrograde	10091 Sep 02 04:03	0° ♊ 23'31	
					10091 Sep 23 21:12	30° ♊	
conjunction	10086 Mar 05 10:58	18° ♋ 52'20	0°28'24	opposition	10091 Nov 10 19:53	27° ♋ 02'43	-1°55'40
minimum elong	10086 Mar 05 10:59	18° ♋ 52'20	0°28'31	min. Earth dist.	10091 Nov 10 16:02	27° ♋ 03'27	8.73094 AU
max. Earth dist.	10086 Mar 05 03:48	18° ♋ 50'06	10.50580 AU	direct	10092 Jan 19 20:21	23° ♋ 41'12	
morning rise	10086 Mar 22 15:46	21° ♋ 00'03			10092 Apr 22 01:21	0° ♊	
retrograde	10086 Jul 01 14:45	28° ♋ 29'56		evening set	10092 May 01 01:34	1° ♊ 03'35	
opposition	10086 Sep 07 15:38	25° ♋ 09'04	0°19'43				
min. Earth dist.	10086 Sep 07 20:23	25° ♋ 08'08	8.52944 AU	conjunction	10092 May 17 20:01	3° ♊ 05'26	-1°40'45
direct	10086 Nov 16 11:26	21° ♋ 44'03		minimum elong	10092 May 17 19:59	3° ♊ 05'25	1°41'08
evening set	10087 Mar 01 05:21	29° ♋ 26'20		max. Earth dist.	10092 May 18 01:02	3° ♊ 06'58	10.74145 AU
	10087 Mar 05 19:39	0° ♊		morning rise	10092 Jun 03 14:10	5° ♊ 07'14	
				retrograde	10092 Sep 13 18:13	12° ♊ 29'22	
conjunction	10087 Mar 18 11:03	1° ♊ 33'46	0°03'05	opposition	10092 Nov 22 15:30	9° ♊ 08'17	-2°10'42
minimum elong	10087 Mar 18 11:02	1° ♊ 33'46	0°03'07	min. Earth dist.	10092 Nov 22 10:30	9° ♊ 09'13	8.75182 AU
behind sun begin	10087 Mar 18 03:58	1° ♊ 31'35		direct	10093 Jan 31 11:24	5° ♊ 47'18	
behind sun end	10087 Mar 18 18:07	1° ♊ 35'56		evening set	10093 May 13 06:28	13° ♊ 07'02	
max. Earth dist.	10087 Mar 18 05:48	1° ♊ 32'10	10.55334 AU				
morning rise	10087 Apr 04 13:28	3° ♊ 40'16		conjunction	10093 May 29 23:58	15° ♊ 08'24	-1°50'41
desc. node	10087 May 02 16:32	6° ♊ 53'18		minimum elong	10093 May 29 23:57	15° ♊ 08'23	1°51'06
retrograde	10087 Jul 14 11:31	11° ♊ 07'22		max. Earth dist.	10093 May 30 05:50	15° ♊ 10'11	10.75744 AU
opposition	10087 Sep 20 20:22	7° ♊ 46'49	-0°11'45	morning rise	10093 Jun 15 18:06	17° ♊ 09'56	
min. Earth dist.	10087 Sep 20 23:57	7° ♊ 46'07	8.57690 AU	retrograde	10093 Sep 26 07:19	24° ♊ 32'56	
direct	10087 Nov 29 19:10	4° ♊ 22'32		opposition	10093 Dec 05 10:15	21° ♊ 11'29	-2°19'55
evening set	10088 Mar 13 03:01	12° ♊ 00'28		min. Earth dist.	10093 Dec 05 04:27	21° ♊ 12'35	8.76323 AU
				direct	10094 Feb 13 01:38	17° ♊ 50'56	
conjunction	10088 Mar 30 06:00	14° ♊ 06'33	-0°22'15	evening set	10094 May 25 10:03	25° ♊ 08'39	
minimum elong	10088 Mar 30 05:59	14° ♊ 06'33	0°22'19				
max. Earth dist.	10088 Mar 30 02:15	14° ♊ 05'24	10.60022 AU	conjunction	10094 Jun 11 03:29	27° ♊ 09'52	-1°55'44
morning rise	10088 Apr 16 06:15	16° ♊ 11'51		minimum elong	10094 Jun 11 03:29	27° ♊ 09'52	1°56'09
retrograde	10088 Jul 26 05:52	23° ♊ 36'43		max. Earth dist.	10094 Jun 11 10:38	27° ♊ 12'02	10.76377 AU
opposition	10088 Oct 02 23:08	20° ♊ 16'18	-0°42'19	morning rise	10094 Jun 27 22:19	29° ♊ 11'27	
min. Earth dist.	10088 Oct 03 01:38	20° ♊ 15'50	8.62275 AU		10094 Jul 04 19:14	0° ♑	
direct	10088 Dec 12 00:40	16° ♊ 52'45		retrograde	10094 Oct 08 22:15	6° ♑ 35'52	
evening set	10089 Mar 25 20:17	24° ♊ 26'21		opposition	10094 Dec 18 04:12	3° ♑ 13'58	-2°22'59
				min. Earth dist.	10094 Dec 17 21:10	3° ♑ 15'18	8.76462 AU
conjunction	10089 Apr 11 20:33	26° ♊ 31'08	-0°46'14		10095 Feb 14 12:49	30° ♊	
minimum elong	10089 Apr 11 20:31	26° ♊ 31'08	0°46'24	direct	10095 Feb 25 15:09	29° ♊ 53'45	
max. Earth dist.	10089 Apr 11 18:10	26° ♊ 30'24	10.64429 AU		10095 Mar 08 15:15	0° ♑	
morning rise	10089 Apr 28 18:48	28° ♊ 35'19		evening set	10095 Jun 06 13:31	7° ♑ 10'08	
	10089 May 10 17:38	0° ♋					
retrograde	10089 Aug 07 22:11	5° ♋ 58'30		conjunction	10095 Jun 23 07:50	9° ♑ 11'32	-1°55'40
opposition	10089 Oct 15 23:47	2° ♋ 38'05	-1°10'35	minimum elong	10095 Jun 23 07:51	9° ♑ 11'32	1°56'06
min. Earth dist.	10089 Oct 16 00:32	2° ♋ 37'57	8.66492 AU	max. Earth dist.	10095 Jun 23 16:44	9° ♑ 14'15	10.76007 AU
	10089 Nov 24 17:52	30° ♊		morning rise	10095 Jul 10 04:01	11° ♑ 13'30	
direct	10089 Dec 25 02:16	29° ♊ 15'16		retrograde	10095 Oct 21 14:23	18° ♑ 39'45	
	10090 Jan 24 00:54	0° ♋		opposition	10095 Dec 30 21:33	15° ♑ 17'21	-2°19'45
evening set	10090 Apr 07 09:21	6° ♋ 44'43		min. Earth dist.	10095 Dec 30 13:10	15° ♑ 18'57	8.75587 AU
				direct	10096 Mar 09 02:18	11° ♑ 57'19	
conjunction	10090 Apr 24 07:14	8° ♋ 48'19	-1°07'53	evening set	10096 Jun 17 17:49	19° ♑ 13'08	
minimum elong	10090 Apr 24 07:12	8° ♋ 48'19	1°08'08				
max. Earth dist.	10090 Apr 24 07:17	8° ♋ 48'20	10.68361 AU	conjunction	10096 Jul 04 13:45	21° ♑ 15'04	-1°50'31
morning rise	10090 May 11 03:40	10° ♋ 51'30		minimum elong	10096 Jul 04 13:47	21° ♑ 15'04	1°50'56
	10090 Jun 18 00:48	15° ♋		max. Earth dist.	10096 Jul 04 23:58	21° ♑ 18'10	10.74646 AU
retrograde	10090 Aug 20 12:37	18° ♋ 13'42		morning rise	10096 Jul 21 11:59	23° ♑ 17'42	
	10090 Oct 27 10:33	15° ♊			10096 Oct 02 18:26	0° ♎	
opposition	10090 Oct 28 22:42	14° ♋ 53'08	-1°35'22	retrograde	10096 Nov 02 08:38	0° ♎ 46'12	
min. Earth dist.	10090 Oct 28 20:58	14° ♋ 53'28	8.70152 AU		10096 Dec 03 07:41	30° ♊	
direct	10091 Jan 07 00:59	11° ♋ 31'00		opposition	10097 Jan 11 15:03	27° ♑ 23'16	-2°10'21
	10091 Mar 14 20:29	15° ♋		min. Earth dist.	10097 Jan 11 06:03	27° ♑ 24'59	8.73734 AU
evening set	10091 Apr 19 18:45	18° ♋ 56'40		direct	10097 Mar 21 13:14	24° ♑ 03'17	
					10097 Jun 18 16:31	0° ♎	
conjunction	10091 May 06 14:42	20° ♋ 59'16	-1°26'18	evening set	10097 Jun 29 23:49	1° ♎ 19'17	
minimum elong	10091 May 06 14:40	20° ♋ 59'15	1°26'38				

conjunction	10097 Jul 16 21:53	3°♈22'02	-1°40'25
minimum elong	10097 Jul 16 21:55	3°♈22'02	1°40'49
max. Earth dist.	10097 Jul 17 08:02	3°♈25'07	10.72364 AU
morning rise	10097 Aug 02 22:54	5°♈25'38	
retrograde	10097 Nov 15 05:35	12°♈56'39	
opposition	10098 Jan 24 09:03	9°♈33'13	-1°55'04
min. Earth dist.	10098 Jan 24 00:27	9°♈34'52	8.71002 AU
direct	10098 Apr 02 23:30	6°♈13'07	
evening set	10098 Jul 12 08:36	13°♈30'05	
	10098 Jul 24 18:14	15°♈	

conjunction	10098 Jul 29 09:25	15°♈33'54	-1°25'45
minimum elong	10098 Jul 29 09:27	15°♈33'55	1°26'06
max. Earth dist.	10098 Jul 29 18:57	15°♈36'48	10.69277 AU
morning rise	10098 Aug 15 13:43	17°♈38'42	
retrograde	10098 Nov 28 02:31	25°♈12'28	
opposition	10099 Feb 06 03:41	21°♈48'30	-1°34'28
min. Earth dist.	10099 Feb 05 19:51	21°♈50'01	8.67529 AU
direct	10099 Apr 15 11:58	18°♈28'07	
evening set	10099 Jul 24 20:56	25°♈46'54	

conjunction	10099 Aug 11 00:59	27°♈51'59	-1°07'04
minimum elong	10099 Aug 11 01:01	27°♈51'59	1°07'20
max. Earth dist.	10099 Aug 11 10:11	27°♈54'47	10.65519 AU
morning rise	10099 Aug 28 08:40	29°♈58'07	
	10099 Aug 28 14:58	0°♏	
retrograde	10099 Dec 11 02:35	7°♏34'47	
opposition	10100 Feb 18 23:19	4°♏10'18	-1°09'20
min. Earth dist.	10100 Feb 18 15:58	4°♏11'44	8.63462 AU
direct	10100 Apr 28 02:52	0°♏49'31	
evening set	10100 Aug 06 13:36	8°♏10'50	

conjunction	10100 Aug 23 21:02	10°♏17'19	-0°45'06
minimum elong	10100 Aug 23 21:04	10°♏17'19	0°45'17
max. Earth dist.	10100 Aug 24 06:07	10°♏20'06	10.61241 AU
morning rise	10100 Sep 10 07:56	12°♏24'51	
retrograde	10100 Dec 24 06:56	20°♏04'27	
opposition	10101 Mar 03 20:16	16°♏39'30	-0°40'42
min. Earth dist.	10101 Mar 03 13:21	16°♏40'51	8.58968 AU
direct	10101 May 10 18:07	13°♏18'10	
evening set	10101 Aug 19 11:24	20°♏42'44	

conjunction	10101 Sep 05 22:02	22°♏50'38	-0°20'49
minimum elong	10101 Sep 05 22:03	22°♏50'39	0°20'55
max. Earth dist.	10101 Sep 06 05:47	22°♏53'01	10.56620 AU
morning rise	10101 Sep 23 11:59	24°♏59'35	
	10101 Nov 09 10:14	0°♏	
retrograde	10102 Jan 06 13:14	2°♏42'01	