

evening set	6600 Mar 31 19:18	22° Υ 00'18		opposition	6605 Mar 27 06:50	7° Ω 14'21	0°49'14
max. Earth dist.	6600 Apr 12 07:03	24° Υ 43'54	6.05696 AU	direct	6605 May 26 02:47	2° Ω 13'53	
				evening set	6605 Sep 29 13:02	20° Ω 27'42	
conjunction	6600 Apr 13 15:34	25° Υ 03'15	-0°44'32				
minimum elong	6600 Apr 13 15:32	25° Υ 03'14	0°44'34	conjunction	6605 Oct 13 01:27	23° Ω 26'43	0°43'47
morning rise	6600 Apr 26 12:59	28° Υ 07'04		minimum elong	6605 Oct 13 01:26	23° Ω 26'42	0°43'48
	6600 May 04 12:54	0° \mathcal{B}		max. Earth dist.	6605 Oct 14 11:23	23° Ω 45'27	6.31418 AU
	6600 Jul 21 01:07	15° \mathcal{B}		morning rise	6605 Oct 26 12:50	26° Ω 24'54	
retrograde	6600 Sep 03 02:57	17° \mathcal{B} 58'22			6605 Nov 12 03:18	0° \mathcal{M}	
	6600 Oct 17 18:14	15° $\mathcal{R}\mathcal{B}$		retrograde	6606 Feb 26 14:18	13° \mathcal{M} 58'52	
opposition	6600 Nov 02 05:16	13° \mathcal{B} 01'24	-1°16'51	opposition	6606 Apr 27 21:00	8° \mathcal{M} 59'23	1°13'29
min. Earth dist.	6600 Nov 02 15:51	12° \mathcal{B} 57'56	3.99046 AU	min. Earth dist.	6606 Apr 27 07:20	9° \mathcal{M} 03'53	4.38166 AU
direct	6600 Dec 31 09:37	8° \mathcal{B} 06'38		direct	6606 Jun 28 00:18	3° \mathcal{M} 57'40	
	6601 Mar 09 02:43	15° \mathcal{B}			6606 Sep 30 09:52	15° \mathcal{M}	
evening set	6601 May 06 12:00	27° \mathcal{B} 50'54		evening set	6606 Nov 01 05:02	21° \mathcal{M} 34'59	
	6601 May 15 08:49	0° \mathcal{I}					
conjunction	6601 May 19 14:10	1° \mathcal{I} 01'42	-0°52'52	conjunction	6606 Nov 14 11:42	24° \mathcal{M} 26'44	0°53'27
minimum elong	6601 May 19 14:10	1° \mathcal{I} 01'42	0°52'55	minimum elong	6606 Nov 14 11:41	24° \mathcal{M} 26'44	0°53'30
max. Earth dist.	6601 May 19 15:43	1° \mathcal{I} 02'39	5.94308 AU	max. Earth dist.	6606 Nov 14 17:34	24° \mathcal{M} 29'54	6.43526 AU
morning rise	6601 Jun 01 18:38	4° \mathcal{I} 13'55		morning rise	6606 Nov 27 16:07	27° \mathcal{M} 17'19	
retrograde	6601 Oct 11 19:46	24° \mathcal{I} 57'20			6606 Dec 10 10:54	0° \mathcal{J}	
opposition	6601 Dec 10 11:29	19° \mathcal{I} 56'46	-1°14'09	retrograde	6607 Mar 28 14:24	14° \mathcal{J} 08'28	
min. Earth dist.	6601 Dec 09 22:04	20° \mathcal{I} 01'16	3.91981 AU	opposition	6607 May 28 05:15	9° \mathcal{J} 12'29	1°16'16
direct	6602 Feb 06 14:40	15° \mathcal{I} 02'39		min. Earth dist.	6607 May 28 10:54	9° \mathcal{J} 10'39	4.47102 AU
	6602 May 22 17:15	0° \mathcal{E}		direct	6607 Jul 29 09:50	4° \mathcal{J} 10'30	
evening set	6602 Jun 12 23:37	5° \mathcal{E} 03'05		evening set	6607 Dec 02 06:57	21° \mathcal{J} 28'43	
				max. Earth dist.	6607 Dec 14 08:29	24° \mathcal{J} 03'44	6.48648 AU
conjunction	6602 Jun 26 09:36	8° \mathcal{E} 18'35	-0°40'25	conjunction	6607 Dec 15 07:50	24° \mathcal{J} 16'16	0°48'18
minimum elong	6602 Jun 26 09:38	8° \mathcal{E} 18'36	0°40'27	minimum elong	6607 Dec 15 07:51	24° \mathcal{J} 16'17	0°48'21
max. Earth dist.	6602 Jun 27 22:57	8° \mathcal{E} 41'17	5.92256 AU	morning rise	6607 Dec 28 06:28	27° \mathcal{J} 02'42	
morning rise	6602 Jul 09 22:14	11° \mathcal{E} 35'28			6608 Jan 11 06:51	0° \mathcal{Z}	
	6602 Oct 11 18:04	0° \mathcal{Q}		retrograde	6608 Apr 26 11:14	13° \mathcal{Z} 39'43	
retrograde	6602 Nov 19 00:24	2° \mathcal{Q} 19'16		opposition	6608 Jun 26 07:25	8° \mathcal{Z} 46'15	0°59'11
	6602 Dec 27 03:09	30° $\mathcal{R}\mathcal{E}$		min. Earth dist.	6608 Jun 27 07:22	8° \mathcal{Z} 38'34	4.48221 AU
min. Earth dist.	6603 Jan 16 02:35	27° \mathcal{E} 26'40	3.95273 AU	direct	6608 Aug 28 01:05	3° \mathcal{Z} 44'36	
opposition	6603 Jan 17 10:58	27° \mathcal{E} 15'40	-0°40'58	evening set	6608 Dec 31 14:51	21° \mathcal{Z} 03'52	
direct	6603 Mar 16 08:37	22° \mathcal{E} 20'04		max. Earth dist.	6609 Jan 11 16:21	23° \mathcal{Z} 27'27	6.45663 AU
	6603 May 26 21:51	0° \mathcal{Q}					
evening set	6603 Jul 20 22:01	12° \mathcal{Q} 02'22		conjunction	6609 Jan 13 11:32	23° \mathcal{Z} 50'53	0°30'27
	6603 Aug 02 09:38	15° \mathcal{Q}		minimum elong	6609 Jan 13 11:33	23° \mathcal{Z} 50'53	0°30'30
				morning rise	6609 Jan 26 05:53	26° \mathcal{Z} 36'57	
conjunction	6603 Aug 03 13:34	15° \mathcal{Q} 16'35	-0°11'54		6609 Feb 11 03:29	0° \mathcal{A}	
minimum elong	6603 Aug 03 13:35	15° \mathcal{Q} 16'35	0°11'56	retrograde	6609 May 27 03:19	13° \mathcal{A} 29'42	
behind sun begin	6603 Aug 03 07:52	15° \mathcal{Q} 13'13		opposition	6609 Jul 27 03:09	8° \mathcal{A} 37'19	0°26'23
behind sun end	6603 Aug 03 19:17	15° \mathcal{Q} 19'58		min. Earth dist.	6609 Jul 28 14:20	8° \mathcal{A} 26'06	4.41318 AU
max. Earth dist.	6603 Aug 05 22:25	15° \mathcal{Q} 50'20	6.00484 AU	direct	6609 Sep 27 16:56	3° \mathcal{A} 36'40	
morning rise	6603 Aug 17 07:16	18° \mathcal{Q} 31'35			6610 Jan 01 15:09	15° \mathcal{A}	
	6603 Oct 08 21:43	0° \mathcal{M}		evening set	6610 Jan 31 03:52	21° \mathcal{A} 17'09	
retrograde	6603 Dec 24 23:49	8° \mathcal{M} 24'38		max. Earth dist.	6610 Feb 10 16:34	23° \mathcal{A} 37'21	6.35285 AU
asc. node	6603 Dec 27 04:14	8° \mathcal{M} 24'09					
min. Earth dist.	6604 Feb 21 00:18	3° \mathcal{M} 32'57	4.07442 AU	conjunction	6610 Feb 12 21:53	24° \mathcal{A} 07'02	0°04'03
opposition	6604 Feb 22 14:12	3° \mathcal{M} 20'03	0°06'58	minimum elong	6610 Feb 12 21:54	24° \mathcal{A} 07'03	0°04'04
	6604 Mar 20 15:15	30° $\mathcal{R}\mathcal{Q}$		behind sun begin	6610 Feb 12 14:03	24° \mathcal{A} 02'42	
direct	6604 Apr 21 03:59	28° \mathcal{Q} 21'47		behind sun end	6610 Feb 13 05:45	24° \mathcal{A} 11'24	
	6604 May 22 22:39	0° \mathcal{M}		morning rise	6610 Feb 25 14:34	26° \mathcal{A} 56'31	
evening set	6604 Aug 25 17:52	17° \mathcal{M} 22'11			6610 Mar 11 13:35	0° \mathcal{H}	
				desc. node	6610 Apr 08 11:52	5° \mathcal{H} 43'04	
conjunction	6604 Sep 08 10:16	20° \mathcal{M} 29'50	0°20'06	retrograde	6610 Jun 28 18:14	14° \mathcal{H} 33'54	
minimum elong	6604 Sep 08 10:15	20° \mathcal{M} 29'49	0°20'05	opposition	6610 Aug 28 14:18	9° \mathcal{H} 41'07	-0°15'21
max. Earth dist.	6604 Sep 10 17:31	21° \mathcal{M} 01'26	6.15428 AU	min. Earth dist.	6610 Aug 30 05:09	9° \mathcal{H} 28'41	4.28007 AU
morning rise	6604 Sep 22 02:55	23° \mathcal{M} 37'17		direct	6610 Oct 29 10:24	4° \mathcal{H} 42'09	
	6604 Oct 21 03:41	0° \mathcal{A}		evening set	6611 Mar 03 20:42	23° \mathcal{H} 01'14	
retrograde	6605 Jan 26 10:09	12° \mathcal{A} 17'09		max. Earth dist.	6611 Mar 14 13:01	25° \mathcal{H} 28'30	6.20030 AU
min. Earth dist.	6605 Mar 26 01:19	7° \mathcal{A} 24'16	4.23585 AU				

conjunction	6611 Mar 16 14:36	25° \mathbf{K} 57'06 -0°24'43	minimum elong	6616 Sep 13 05:54	25° \mathbf{M} 12'47 0°23'54
minimum elong	6611 Mar 16 14:35	25° \mathbf{K} 57'05 0°24'42	max. Earth dist.	6616 Sep 15 11:05	25° \mathbf{M} 43'05 6.17144 AU
morning rise	6611 Mar 29 08:21	28° \mathbf{K} 53'11	morning rise	6616 Sep 26 22:16	28° \mathbf{M} 19'19
	6611 Apr 03 05:12	0° \mathbf{Y}		6616 Oct 04 09:35	0° \mathbf{L}
retrograde	6611 Aug 02 18:30	17° \mathbf{Y} 38'08	retrograde	6617 Jan 30 18:25	16° \mathbf{L} 51'13
opposition	6611 Oct 02 07:38	12° \mathbf{Y} 43'36 -0°55'15	opposition	6617 Mar 31 16:46	11° \mathbf{L} 48'47 0°53'40
min. Earth dist.	6611 Oct 03 12:00	12° \mathbf{Y} 34'25 4.11846 AU	min. Earth dist.	6617 Mar 30 12:16	11° \mathbf{L} 58'22 4.25251 AU
direct	6611 Dec 01 19:05	7° \mathbf{Y} 46'55	direct	6617 May 30 15:49	6° \mathbf{L} 48'05
evening set	6612 Apr 05 12:32	26° \mathbf{Y} 53'33	evening set	6617 Oct 04 03:31	24° \mathbf{L} 57'53
max. Earth dist.	6612 Apr 17 05:19	29° \mathbf{Y} 40'35 6.04343 AU			
conjunction	6612 Apr 18 09:17	29° \mathbf{Y} 57'17 -0°46'41	conjunction	6617 Oct 17 15:20	27° \mathbf{L} 56'00 0°45'55
minimum elong	6612 Apr 18 09:16	29° \mathbf{Y} 57'16 0°46'43	minimum elong	6617 Oct 17 15:19	27° \mathbf{L} 56'00 0°45'56
	6612 Apr 18 13:51	0° \mathbf{B}	max. Earth dist.	6617 Oct 18 22:04	28° \mathbf{L} 12'57 6.32925 AU
morning rise	6612 May 01 07:16	3° \mathbf{B} 01'58	morning rise	6617 Oct 27 00:36	0° \mathbf{M}
	6612 Jun 24 22:52	15° \mathbf{B}		6617 Oct 31 01:50	0° \mathbf{M} 53'14
retrograde	6612 Sep 08 07:10	23° \mathbf{B} 00'04	retrograde	6618 Jan 14 10:40	15° \mathbf{M}
opposition	6612 Nov 07 07:34	18° \mathbf{B} 02'38 -1°18'16		6618 Mar 02 20:32	18° \mathbf{M} 21'12
min. Earth dist.	6612 Nov 07 16:14	17° \mathbf{B} 59'46 3.98064 AU		6618 Apr 19 12:38	15° \mathbf{K} \mathbf{M}
	6612 Dec 02 05:43	15° \mathbf{K} \mathbf{B}	opposition	6618 May 02 03:12	13° \mathbf{M} 22'12 1°15'03
direct	6613 Jan 05 09:14	13° \mathbf{B} 07'59	min. Earth dist.	6618 May 01 16:08	13° \mathbf{M} 25'51 4.39411 AU
	6613 Feb 08 03:13	15° \mathbf{B}	direct	6618 Jul 02 10:42	8° \mathbf{M} 20'25
	6613 Apr 29 07:14	0° \mathbf{I}		6618 Sep 11 01:06	15° \mathbf{M}
evening set	6613 May 11 10:18	2° \mathbf{I} 54'23	evening set	6618 Nov 05 14:26	25° \mathbf{M} 54'58
conjunction	6613 May 24 13:24	6° \mathbf{I} 05'51 -0°52'22	conjunction	6618 Nov 18 20:16	28° \mathbf{M} 46'04 0°53'31
minimum elong	6613 May 24 13:24	6° \mathbf{I} 05'51 0°52'25	minimum elong	6618 Nov 18 20:16	28° \mathbf{M} 46'04 0°53'34
max. Earth dist.	6613 May 24 19:14	6° \mathbf{I} 09'24 5.93791 AU	max. Earth dist.	6618 Nov 18 22:01	28° \mathbf{M} 47'00 6.44413 AU
morning rise	6613 Jun 06 18:53	9° \mathbf{I} 18'45		6618 Nov 24 13:21	0° \mathbf{J}
	6613 Oct 10 11:25	0° \mathbf{E}	morning rise	6618 Dec 01 23:59	1° \mathbf{J} 36'00
retrograde	6613 Oct 16 23:04	0° \mathbf{E} 04'10	retrograde	6619 Apr 01 18:01	18° \mathbf{J} 24'06
	6613 Oct 23 10:24	30° \mathbf{K} \mathbf{I}	opposition	6619 Jun 01 09:54	13° \mathbf{J} 28'26 1°14'55
opposition	6613 Dec 15 13:50	25° \mathbf{I} 03'10 -1°11'14	min. Earth dist.	6619 Jun 01 17:43	13° \mathbf{J} 25'54 4.47589 AU
min. Earth dist.	6613 Dec 14 21:43	25° \mathbf{I} 08'35 3.92017 AU	direct	6619 Aug 02 16:43	8° \mathbf{J} 26'25
direct	6614 Feb 11 14:36	20° \mathbf{I} 08'57	evening set	6619 Dec 06 12:59	25° \mathbf{J} 43'43
	6614 May 04 15:50	0° \mathbf{E}	conjunction	6619 Dec 19 13:20	28° \mathbf{J} 31'01 0°46'26
evening set	6614 Jun 18 00:43	10° \mathbf{E} 08'23	minimum elong	6619 Dec 19 13:21	28° \mathbf{J} 31'02 0°46'29
conjunction	6614 Jul 01 11:30	13° \mathbf{E} 24'01 -0°37'18	max. Earth dist.	6619 Dec 18 12:41	28° \mathbf{J} 17'47 6.48694 AU
minimum elong	6614 Jul 01 11:31	13° \mathbf{E} 24'02 0°37'21		6619 Dec 26 10:57	0° \mathbf{Z}
max. Earth dist.	6614 Jul 03 02:15	13° \mathbf{E} 47'32 5.92823 AU	morning rise	6620 Jan 01 11:06	1° \mathbf{Z} 17'09
morning rise	6614 Jul 15 01:11	16° \mathbf{E} 41'03	retrograde	6620 Apr 30 14:50	17° \mathbf{Z} 54'23
	6614 Sep 13 19:09	0° \mathbf{Q}	opposition	6620 Jun 30 12:53	13° \mathbf{Z} 01'07 0°55'21
retrograde	6614 Nov 23 21:54	7° \mathbf{Q} 20'56	min. Earth dist.	6620 Jul 01 14:03	12° \mathbf{Z} 53'04 4.47799 AU
min. Earth dist.	6615 Jan 20 23:41	2° \mathbf{Q} 28'29 3.96304 AU	direct	6620 Sep 01 06:52	7° \mathbf{Z} 59'34
opposition	6615 Jan 22 09:17	2° \mathbf{Q} 17'03 -0°34'59	evening set	6621 Jan 04 20:06	25° \mathbf{Z} 20'10
	6615 Feb 08 21:30	30° \mathbf{K} \mathbf{E}	max. Earth dist.	6621 Jan 15 18:09	27° \mathbf{Z} 42'16 6.44768 AU
direct	6615 Mar 21 07:44	27° \mathbf{E} 21'04	conjunction	6621 Jan 17 16:08	28° \mathbf{Z} 07'17 0°27'07
	6615 Apr 30 13:31	0° \mathbf{Q}	minimum elong	6621 Jan 17 16:09	28° \mathbf{Z} 07'17 0°27'10
	6615 Jul 17 09:18	15° \mathbf{Q}		6621 Jan 26 07:22	0° $\mathbf{\approx}$
evening set	6615 Jul 25 21:51	16° \mathbf{Q} 59'42	morning rise	6621 Jan 30 10:14	0° $\mathbf{\approx}$ 53'34
conjunction	6615 Aug 08 14:01	20° \mathbf{Q} 13'30 -0°07'34		6621 Apr 17 15:48	15° $\mathbf{\approx}$
minimum elong	6615 Aug 08 14:02	20° \mathbf{Q} 13'30 0°07'36	retrograde	6621 May 31 13:29	17° $\mathbf{\approx}$ 50'17
behind sun begin	6615 Aug 08 06:27	20° \mathbf{Q} 09'02		6621 Jul 15 00:20	15° \mathbf{K} $\mathbf{\approx}$
behind sun end	6615 Aug 08 21:37	20° \mathbf{Q} 17'58	opposition	6621 Jul 31 12:32	12° $\mathbf{\approx}$ 57'54 0°20'53
max. Earth dist.	6615 Aug 11 00:04	20° \mathbf{Q} 47'50 6.01899 AU	min. Earth dist.	6621 Aug 02 01:31	12° $\mathbf{\approx}$ 46'06 4.39959 AU
morning rise	6615 Aug 22 07:51	23° \mathbf{Q} 27'54	direct	6621 Oct 02 02:06	7° $\mathbf{\approx}$ 57'24
	6615 Sep 20 01:49	0° \mathbf{M}		6621 Dec 13 18:35	15° $\mathbf{\approx}$
asc. node	6615 Nov 08 17:45	9° \mathbf{M} 15'25	evening set	6622 Feb 04 10:50	25° $\mathbf{\approx}$ 41'41
retrograde	6615 Dec 29 16:46	13° \mathbf{M} 13'19	max. Earth dist.	6622 Feb 14 22:59	28° $\mathbf{\approx}$ 02'08 6.33543 AU
min. Earth dist.	6616 Feb 25 17:43	8° \mathbf{M} 21'19 4.09077 AU	desc. node	6622 Feb 16 11:47	28° $\mathbf{\approx}$ 22'43
opposition	6616 Feb 27 06:20	8° \mathbf{M} 08'52 0°13'17	conjunction	6622 Feb 17 04:48	28° $\mathbf{\approx}$ 32'12 -0°00'03
direct	6616 Apr 25 23:30	3° \mathbf{M} 10'18	minimum elong	6622 Feb 17 04:46	28° $\mathbf{\approx}$ 32'12 0°00'02
evening set	6616 Aug 30 13:48	22° \mathbf{M} 06'02	behind sun begin	6622 Feb 16 22:09	28° $\mathbf{\approx}$ 28'32
conjunction	6616 Sep 13 05:55	25° \mathbf{M} 12'48 0°23'54	behind sun end	6622 Feb 17 11:24	28° $\mathbf{\approx}$ 35'52
				6622 Feb 23 17:44	0° \mathbf{K}

morning rise	6622 Mar 01 21:21	1° K 22'21	direct	6628 Apr 30 22:08	8° M 09'29	
retrograde	6622 Jul 03 09:05	19° K 07'26	evening set	6628 Sep 04 13:08	26° M 58'41	
opposition	6622 Sep 02 05:48	14° K 14'28 -0°21'18		6628 Sep 17 21:22	0° A	
min. Earth dist.	6622 Sep 03 19:13	14° K 02'29 4.25978 AU				
direct	6622 Nov 02 21:16	9° K 15'48	conjunction	6628 Sep 18 04:49	0° A 04'13	0°27'44
evening set	6623 Mar 08 08:55	27° K 40'49	minimum elong	6628 Sep 18 04:48	0° A 04'12	0°27'45
	6623 Mar 18 10:03	0° Y	max. Earth dist.	6628 Sep 20 07:35	0° A 33'00	6.19488 AU
max. Earth dist.	6623 Mar 19 03:32	0° Y 10'08 6.17869 AU	morning rise	6628 Oct 01 20:30	3° A 09'24	
			retrograde	6629 Feb 04 06:23	21° A 31'02	
conjunction	6623 Mar 21 02:57	0° Y 37'37 -0°28'22	min. Earth dist.	6629 Apr 04 02:54	16° A 37'43	4.27611 AU
minimum elong	6623 Mar 21 02:56	0° Y 37'36 0°28'22	opposition	6629 Apr 05 04:56	16° A 29'00	0°57'55
morning rise	6623 Apr 02 21:02	3° Y 34'45	direct	6629 Jun 04 09:47	11° A 28'03	
retrograde	6623 Aug 07 20:27	22° Y 29'50	evening set	6629 Oct 08 18:47	29° A 31'14	
opposition	6623 Oct 07 06:49	17° Y 35'00 -0°59'47		6629 Oct 10 23:30	0° M	
min. Earth dist.	6623 Oct 08 10:02	17° Y 26'09 4.09706 AU				
direct	6623 Dec 06 14:37	12° Y 38'37	conjunction	6629 Oct 22 05:48	2° M 28'06	0°47'52
	6624 Apr 02 10:53	0° B	minimum elong	6629 Oct 22 05:47	2° M 28'05	0°47'54
evening set	6624 Apr 10 07:58	1° B 51'41	max. Earth dist.	6629 Oct 23 09:50	2° M 43'29	6.35117 AU
max. Earth dist.	6624 Apr 22 04:53	4° B 41'53 6.02427 AU	morning rise	6629 Nov 04 15:18	5° M 24'00	
				6629 Dec 21 21:06	15° M	
conjunction	6624 Apr 23 05:28	4° B 56'36 -0°48'37	retrograde	6630 Mar 06 23:45	22° M 43'48	
minimum elong	6624 Apr 23 05:27	4° B 56'35 0°48'38	opposition	6630 May 06 09:04	17° M 45'13	1°16'14
morning rise	6624 May 06 04:20	8° B 02'33	min. Earth dist.	6630 May 05 23:40	17° M 48'18	4.41291 AU
	6624 Jun 05 07:34	15° B		6630 May 28 15:13	15° R M	
retrograde	6624 Sep 13 13:36	28° B 09'42	direct	6630 Jul 06 19:47	12° M 43'19	
opposition	6624 Nov 12 12:55	23° B 11'51 -1°19'13		6630 Aug 15 11:24	15° M	
min. Earth dist.	6624 Nov 12 17:55	23° B 10'12 3.96585 AU		6630 Nov 08 22:12	0° A	
direct	6625 Jan 10 09:03	18° B 17'26	evening set	6630 Nov 09 22:40	0° A 13'03	
	6625 Apr 11 14:20	0° II				
evening set	6625 May 16 12:57	8° II 08'07	conjunction	6630 Nov 23 03:36	3° A 03'13	0°53'21
			minimum elong	6630 Nov 23 03:36	3° A 03'14	0°53'23
conjunction	6625 May 29 17:01	11° II 20'30 -0°51'28	max. Earth dist.	6630 Nov 23 01:42	3° A 02'12	6.45843 AU
minimum elong	6625 May 29 17:02	11° II 20'31 0°51'31	morning rise	6630 Dec 06 06:17	5° A 52'13	
max. Earth dist.	6625 May 30 02:36	11° II 26'21 5.92886 AU	retrograde	6631 Apr 05 19:52	22° A 35'46	
morning rise	6625 Jun 11 23:48	14° II 34'26	opposition	6631 Jun 05 12:42	17° A 40'29	1°13'13
	6625 Aug 23 06:46	0° E	min. Earth dist.	6631 Jun 05 23:39	17° A 36'57	4.48476 AU
retrograde	6625 Oct 22 06:59	5° E 23'23	direct	6631 Aug 06 22:59	12° A 38'26	
opposition	6625 Dec 20 21:01	0° E 21'55 -1°07'39	evening set	6631 Dec 10 16:35	29° A 53'42	
min. Earth dist.	6625 Dec 20 01:48	0° E 28'24 3.91795 AU		6631 Dec 11 04:24	0° B	
	6625 Dec 23 14:05	30° R II	max. Earth dist.	6631 Dec 22 10:35	2° B 24'44	6.48948 AU
direct	6626 Feb 16 20:25	25° II 27'34				
	6626 Apr 11 03:37	0° E	conjunction	6631 Dec 23 16:08	2° B 40'36	0°44'24
evening set	6626 Jun 23 07:11	15° E 26'57	minimum elong	6631 Dec 23 16:09	2° B 40'37	0°44'28
			morning rise	6632 Jan 05 13:22	5° B 26'24	
conjunction	6626 Jul 06 19:08	18° E 42'52 -0°33'44	retrograde	6632 May 04 17:46	22° B 03'34	
minimum elong	6626 Jul 06 19:10	18° E 42'53 0°33'48	opposition	6632 Jul 04 16:11	17° B 10'26	0°51'21
max. Earth dist.	6626 Jul 08 15:04	19° E 09'29 5.93324 AU	min. Earth dist.	6632 Jul 05 19:53	17° B 01'34	4.47402 AU
morning rise	6626 Jul 20 09:36	22° E 00'03	direct	6632 Sep 05 10:51	12° B 08'51	
	6626 Aug 24 00:23	0° O	evening set	6633 Jan 08 22:28	29° B 30'50	
retrograde	6626 Nov 29 02:18	12° O 35'48		6633 Jan 11 04:22	0° \approx	
min. Earth dist.	6627 Jan 26 02:15	7° O 43'26 3.97471 AU	max. Earth dist.	6633 Jan 19 18:51	1° \approx 52'19	6.43733 AU
opposition	6627 Jan 27 12:36	7° O 31'44 -0°28'26				
direct	6627 Mar 26 12:30	2° O 35'30	conjunction	6633 Jan 21 18:13	2° \approx 18'10	0°23'45
	6627 Jun 29 14:39	15° O	minimum elong	6633 Jan 21 18:14	2° \approx 18'11	0°23'47
evening set	6627 Jul 31 03:13	22° O 09'50	morning rise	6633 Feb 03 11:48	5° \approx 04'42	
				6633 Mar 24 18:34	15° \approx	
conjunction	6627 Aug 13 19:39	25° O 22'58 -0°02'58	retrograde	6633 Jun 04 19:55	22° \approx 06'04	
minimum elong	6627 Aug 13 19:40	25° O 22'59 0°03'00	opposition	6633 Aug 04 19:45	17° \approx 13'40	0°15'23
behind sun begin	6627 Aug 13 11:18	25° O 18'04	min. Earth dist.	6633 Aug 06 09:32	17° \approx 01'38	4.38332 AU
behind sun end	6627 Aug 14 04:02	25° O 27'53		6633 Aug 22 22:13	15° R \approx	
max. Earth dist.	6627 Aug 16 06:45	25° O 57'45 6.03621 AU	direct	6633 Oct 06 06:41	12° \approx 13'19	
morning rise	6627 Aug 27 13:45	28° O 36'38		6633 Nov 19 05:52	15° \approx	
	6627 Sep 02 13:19	0° M	desc. node	6633 Dec 28 16:43	21° \approx 14'48	
asc. node	6627 Sep 18 10:04	3° M 36'03	evening set	6634 Feb 08 16:23	0° K 02'30	
retrograde	6628 Jan 03 10:41	18° M 12'39		6634 Feb 08 11:53	0° K	
min. Earth dist.	6628 Mar 01 12:40	13° M 21'03 4.11193 AU	max. Earth dist.	6634 Feb 19 02:49	2° K 22'42	6.31424 AU
opposition	6628 Mar 03 02:02	13° M 08'22 0°19'47				

conjunction	6634 Feb 21 10:04	2° H 53'45	-0°04'05	behind sun end	6639 Aug 19 11:15	0° H 39'43	
minimum elong	6634 Feb 21 10:04	2° H 53'45	0°04'03	max. Earth dist.	6639 Aug 21 13:59	1° H 09'27	6.05738 AU
behind sun begin	6634 Feb 21 02:12	2° H 49'21		morning rise	6639 Sep 01 20:54	3° H 47'26	
behind sun end	6634 Feb 21 17:56	2° H 58'09		retrograde	6640 Jan 08 06:48	23° H 12'32	
morning rise	6634 Mar 06 02:49	5° H 44'46		min. Earth dist.	6640 Mar 06 10:36	18° H 20'32	4.13640 AU
retrograde	6634 Jul 08 02:25	23° H 39'04		opposition	6640 Mar 07 22:27	18° H 08'23	0°26'10
opposition	6634 Sep 06 20:32	18° H 45'54	-0°27'05	direct	6640 May 06 00:02	13° H 09'06	
min. Earth dist.	6634 Sep 08 10:28	18° H 33'43	4.23480 AU		6640 Sep 01 06:09	0° H	
direct	6634 Nov 07 08:42	13° H 47'23		evening set	6640 Sep 09 12:40	1° H 50'42	
	6635 Mar 02 16:15	0° H					
evening set	6635 Mar 12 20:58	2° H 20'09		conjunction	6640 Sep 23 03:56	4° H 54'54	0°31'23
max. Earth dist.	6635 Mar 23 17:41	4° H 51'33	6.15199 AU	minimum elong	6640 Sep 23 03:54	4° H 54'54	0°31'23
				max. Earth dist.	6640 Sep 25 05:33	5° H 22'53	6.22036 AU
conjunction	6635 Mar 25 15:28	5° H 18'14	-0°31'50	morning rise	6640 Oct 06 18:46	7° H 58'36	
minimum elong	6635 Mar 25 15:27	5° H 18'13	0°31'51	retrograde	6641 Feb 08 15:49	26° H 09'31	
morning rise	6635 Apr 07 10:03	8° H 16'43		opposition	6641 Apr 09 16:41	21° H 07'57	1°01'47
retrograde	6635 Aug 12 22:05	27° H 23'48		min. Earth dist.	6641 Apr 08 15:55	21° H 16'13	4.30031 AU
opposition	6635 Oct 12 06:51	22° H 28'38	-1°03'57	direct	6641 Jun 09 01:09	16° H 06'51	
min. Earth dist.	6635 Oct 13 07:22	22° H 20'39	4.07097 AU		6641 Sep 24 09:44	0° H	
direct	6635 Dec 11 07:44	17° H 32'35		evening set	6641 Oct 13 10:09	4° H 03'39	
	6636 Mar 16 08:24	0° H					
evening set	6636 Apr 15 05:17	6° H 53'56		conjunction	6641 Oct 26 20:11	6° H 59'18	0°49'32
max. Earth dist.	6636 Apr 27 06:31	9° H 47'36	6.00112 AU	minimum elong	6641 Oct 26 20:10	6° H 59'17	0°49'35
				max. Earth dist.	6641 Oct 27 18:53	7° H 11'42	6.37218 AU
conjunction	6636 Apr 28 03:30	10° H 00'15	-0°50'11	morning rise	6641 Nov 09 04:45	9° H 53'58	
minimum elong	6636 Apr 28 03:29	10° H 00'14	0°50'13		6641 Dec 03 07:44	15° H	
morning rise	6636 May 11 03:30	13° H 07'43		retrograde	6642 Mar 11 06:08	27° H 06'22	
	6636 May 19 00:12	15° H		opposition	6642 May 10 15:32	22° H 08'21	1°17'02
	6636 Aug 02 15:57	0° H		min. Earth dist.	6642 May 10 09:57	22° H 10'10	4.42935 AU
retrograde	6636 Sep 18 23:15	3° H 25'29		direct	6642 Jul 11 07:07	17° H 06'23	
	6636 Nov 06 00:01	30° H			6642 Oct 23 13:22	0° H	
opposition	6636 Nov 17 20:46	28° H 27'06	-1°19'35	evening set	6642 Nov 14 07:18	4° H 32'23	
min. Earth dist.	6636 Nov 17 22:07	28° H 26'39	3.94814 AU				
direct	6637 Jan 15 12:55	23° H 32'49		conjunction	6642 Nov 27 11:29	7° H 21'51	0°52'54
	6637 Mar 21 10:06	0° H		minimum elong	6642 Nov 27 11:29	7° H 21'51	0°52'56
evening set	6637 May 21 18:51	13° H 28'48		max. Earth dist.	6642 Nov 27 05:35	7° H 18'40	6.46908 AU
				morning rise	6642 Dec 10 13:17	10° H 10'06	
conjunction	6637 Jun 04 00:17	16° H 42'18	-0°50'07	retrograde	6643 Apr 09 22:46	26° H 50'41	
minimum elong	6637 Jun 04 00:18	16° H 42'19	0°50'10	opposition	6643 Jun 09 17:08	21° H 55'48	1°11'09
max. Earth dist.	6637 Jun 04 16:55	16° H 52'27	5.91858 AU	min. Earth dist.	6643 Jun 10 06:10	21° H 51'35	4.48922 AU
morning rise	6637 Jun 17 08:12	19° H 57'16		direct	6643 Aug 11 04:28	16° H 53'47	
	6637 Jul 31 02:08	0° H			6643 Nov 25 02:16	0° H	
retrograde	6637 Oct 27 19:28	10° H 49'31		evening set	6643 Dec 14 22:00	4° H 08'36	
min. Earth dist.	6637 Dec 25 09:01	5° H 54'58	3.91649 AU				
opposition	6637 Dec 26 06:54	5° H 47'35	-1°03'25	conjunction	6643 Dec 27 20:57	6° H 55'20	0°42'06
direct	6638 Feb 22 04:41	0° H 53'05		minimum elong	6643 Dec 27 20:58	6° H 55'21	0°42'10
evening set	6638 Jun 28 17:08	20° H 51'54		max. Earth dist.	6643 Dec 26 12:45	6° H 38'01	6.48748 AU
				morning rise	6644 Jan 09 17:27	9° H 40'59	
conjunction	6638 Jul 12 05:57	24° H 07'55	-0°29'50	retrograde	6644 May 08 23:49	26° H 19'42	
minimum elong	6638 Jul 12 05:59	24° H 07'56	0°29'53	opposition	6644 Jul 08 22:24	21° H 26'51	0°46'59
max. Earth dist.	6638 Jul 14 05:38	24° H 36'43	5.94053 AU	min. Earth dist.	6644 Jul 10 04:31	21° H 17'14	4.46567 AU
morning rise	6638 Jul 25 21:27	27° H 25'09		direct	6644 Sep 09 17:06	16° H 25'26	
	6638 Aug 05 18:12	0° H			6644 Dec 26 03:55	0° H	
	6638 Oct 22 04:17	15° H		evening set	6645 Jan 13 04:18	3° H 50'15	
retrograde	6638 Dec 04 06:06	17° H 54'59		max. Earth dist.	6645 Jan 23 20:37	6° H 10'05	6.42311 AU
	6639 Jan 16 09:18	15° H					
min. Earth dist.	6639 Jan 31 04:35	13° H 03'14	3.98981 AU	conjunction	6645 Jan 25 23:33	6° H 37'59	0°20'08
opposition	6639 Feb 01 17:32	12° H 50'39	-0°21'33	minimum elong	6645 Jan 25 23:34	6° H 37'59	0°20'10
direct	6639 Mar 31 18:16	7° H 54'02		morning rise	6645 Feb 07 17:03	9° H 24'59	
	6639 Jun 08 17:52	15° H			6645 Mar 06 01:40	15° H	
asc. node	6639 Jul 28 02:45	25° H 27'00		retrograde	6645 Jun 09 08:59	26° H 32'30	
evening set	6639 Aug 05 10:14	27° H 22'36		opposition	6645 Aug 09 07:26	21° H 40'06	0°09'34
	6639 Aug 16 15:24	0° H		min. Earth dist.	6645 Aug 10 22:13	21° H 27'43	4.36397 AU
				direct	6645 Oct 10 15:48	16° H 39'55	
conjunction	6639 Aug 19 02:53	0° H 34'51	0°01'50	desc. node	6645 Nov 07 05:25	17° H 47'52	
minimum elong	6639 Aug 19 02:51	0° H 34'50	0°01'48		6646 Jan 23 03:26	0° H	
behind sun begin	6639 Aug 18 18:27	0° H 29'56		evening set	6646 Feb 13 01:54	4° H 34'58	

max. Earth dist.	6646 Feb 23 13:36	6° $\mathbf{\text{X}}$ 56'33	6.29127 AU	conjunction	6651 Aug 24 06:28	5° $\mathbf{\text{P}}$ 37'56	0°06'22
				minimum elong	6651 Aug 24 06:27	5° $\mathbf{\text{P}}$ 37'55	0°06'21
conjunction	6646 Feb 25 19:44	7° $\mathbf{\text{X}}$ 27'08	-0°08'11	behind sun begin	6651 Aug 23 22:33	5° $\mathbf{\text{P}}$ 33'21	
minimum elong	6646 Feb 25 19:44	7° $\mathbf{\text{X}}$ 27'08	0°08'09	behind sun end	6651 Aug 24 14:20	5° $\mathbf{\text{P}}$ 42'29	
behind sun begin	6646 Feb 25 12:39	7° $\mathbf{\text{X}}$ 23'09		max. Earth dist.	6651 Aug 26 18:37	6° $\mathbf{\text{P}}$ 12'56	6.08172 AU
behind sun end	6646 Feb 26 02:50	7° $\mathbf{\text{X}}$ 31'08		morning rise	6651 Sep 07 00:11	8° $\mathbf{\text{P}}$ 49'14	
morning rise	6646 Mar 10 12:28	10° $\mathbf{\text{X}}$ 19'06		retrograde	6652 Jan 12 21:20	28° $\mathbf{\text{P}}$ 02'37	
retrograde	6646 Jul 12 23:16	28° $\mathbf{\text{X}}$ 23'22		min. Earth dist.	6652 Mar 11 03:22	23° $\mathbf{\text{P}}$ 10'37	4.16219 AU
opposition	6646 Sep 11 16:22	23° $\mathbf{\text{X}}$ 30'03	-0°32'58	opposition	6652 Mar 12 14:36	22° $\mathbf{\text{P}}$ 58'42	0°32'07
min. Earth dist.	6646 Sep 13 05:03	23° $\mathbf{\text{X}}$ 18'15	4.20982 AU	direct	6652 May 10 19:47	17° $\mathbf{\text{P}}$ 59'07	
direct	6646 Nov 11 23:00	18° $\mathbf{\text{X}}$ 31'56			6652 Aug 15 01:42	0° $\mathbf{\text{A}}$	
	6647 Feb 13 07:22	0° $\mathbf{\text{Y}}$		evening set	6652 Sep 14 08:10	6° $\mathbf{\text{A}}$ 33'02	
evening set	6647 Mar 17 13:50	7° $\mathbf{\text{Y}}$ 12'19					
max. Earth dist.	6647 Mar 28 12:41	9° $\mathbf{\text{Y}}$ 45'51	6.12710 AU	conjunction	6652 Sep 27 22:40	9° $\mathbf{\text{A}}$ 35'51	0°34'42
				minimum elong	6652 Sep 27 22:38	9° $\mathbf{\text{A}}$ 35'50	0°34'42
conjunction	6647 Mar 30 08:32	10° $\mathbf{\text{Y}}$ 11'34	-0°35'14	max. Earth dist.	6652 Sep 29 19:26	10° $\mathbf{\text{A}}$ 00'57	6.24527 AU
minimum elong	6647 Mar 30 08:31	10° $\mathbf{\text{Y}}$ 11'33	0°35'14	morning rise	6652 Oct 11 12:51	12° $\mathbf{\text{A}}$ 38'08	
morning rise	6647 Apr 12 03:48	13° $\mathbf{\text{Y}}$ 11'23			6653 Jan 23 18:54	0° $\mathbf{\text{M}}$	
	6647 Jul 08 18:18	0° $\mathbf{\text{B}}$		retrograde	6653 Feb 12 23:17	0° $\mathbf{\text{M}}$ 39'07	
retrograde	6647 Aug 18 04:29	2° $\mathbf{\text{B}}$ 29'57			6653 Mar 04 23:34	30° $\mathbf{\text{R}}$ $\mathbf{\text{A}}$	
	6647 Sep 27 23:38	30° $\mathbf{\text{R}}$ $\mathbf{\text{Y}}$		min. Earth dist.	6653 Apr 13 03:48	25° $\mathbf{\text{A}}$ 45'06	4.32237 AU
opposition	6647 Oct 17 11:30	27° $\mathbf{\text{Y}}$ 34'23	-1°07'48	opposition	6653 Apr 14 01:12	25° $\mathbf{\text{A}}$ 37'58	1°05'09
min. Earth dist.	6647 Oct 18 09:00	27° $\mathbf{\text{Y}}$ 27'21	4.04843 AU	direct	6653 Jun 13 14:55	20° $\mathbf{\text{A}}$ 36'38	
direct	6647 Dec 16 07:42	22° $\mathbf{\text{Y}}$ 38'40			6653 Sep 06 17:26	0° $\mathbf{\text{M}}$	
	6648 Feb 25 03:05	0° $\mathbf{\text{B}}$		evening set	6653 Oct 17 21:42	8° $\mathbf{\text{M}}$ 27'51	
evening set	6648 Apr 20 06:30	12° $\mathbf{\text{B}}$ 06'48					
	6648 May 02 05:59	15° $\mathbf{\text{B}}$		conjunction	6653 Oct 31 07:04	11° $\mathbf{\text{M}}$ 22'29	0°50'53
conjunction	6648 May 03 05:44	15° $\mathbf{\text{B}}$ 14'21	-0°51'26	minimum elong	6653 Oct 31 07:04	11° $\mathbf{\text{M}}$ 22'28	0°50'55
minimum elong	6648 May 03 05:44	15° $\mathbf{\text{B}}$ 14'21	0°51'29	max. Earth dist.	6653 Nov 01 02:44	11° $\mathbf{\text{M}}$ 33'11	6.38979 AU
max. Earth dist.	6648 May 02 15:10	15° $\mathbf{\text{B}}$ 05'32	5.98344 AU	morning rise	6653 Nov 13 14:32	14° $\mathbf{\text{M}}$ 16'01	
morning rise	6648 May 16 06:37	18° $\mathbf{\text{B}}$ 23'04			6654 Feb 13 12:25	0° $\mathbf{\text{J}}$	
	6648 Jul 07 07:06	0° $\mathbf{\text{I}}$		retrograde	6654 Mar 15 07:55	1° $\mathbf{\text{J}}$ 22'26	
retrograde	6648 Sep 24 12:16	8° $\mathbf{\text{I}}$ 48'43			6654 Apr 14 00:38	30° $\mathbf{\text{R}}$ $\mathbf{\text{M}}$	
opposition	6648 Nov 23 07:05	3° $\mathbf{\text{I}}$ 49'53	-1°19'17	opposition	6654 May 14 19:29	26° $\mathbf{\text{M}}$ 24'54	1°17'26
min. Earth dist.	6648 Nov 23 05:03	3° $\mathbf{\text{I}}$ 50'34	3.93764 AU	min. Earth dist.	6654 May 14 16:00	26° $\mathbf{\text{M}}$ 26'02	4.44159 AU
	6648 Dec 26 11:36	30° $\mathbf{\text{R}}$ $\mathbf{\text{B}}$		direct	6654 Jul 15 13:34	21° $\mathbf{\text{M}}$ 22'55	
direct	6649 Jan 20 19:42	28° $\mathbf{\text{B}}$ 55'45			6654 Oct 05 20:45	0° $\mathbf{\text{J}}$	
	6649 Feb 15 00:28	0° $\mathbf{\text{I}}$		evening set	6654 Nov 18 13:58	8° $\mathbf{\text{J}}$ 46'30	
evening set	6649 May 27 02:30	18° $\mathbf{\text{I}}$ 53'59					
conjunction	6649 Jun 09 08:53	22° $\mathbf{\text{I}}$ 08'05	-0°48'22	conjunction	6654 Dec 01 17:15	11° $\mathbf{\text{J}}$ 35'24	0°52'11
minimum elong	6649 Jun 09 08:54	22° $\mathbf{\text{I}}$ 08'06	0°48'25	minimum elong	6654 Dec 01 17:15	11° $\mathbf{\text{J}}$ 35'24	0°52'15
max. Earth dist.	6649 Jun 10 05:57	22° $\mathbf{\text{I}}$ 20'57	5.91625 AU	max. Earth dist.	6654 Dec 01 06:11	11° $\mathbf{\text{J}}$ 29'27	6.47511 AU
morning rise	6649 Jun 22 18:08	25° $\mathbf{\text{I}}$ 23'44		morning rise	6654 Dec 14 18:20	14° $\mathbf{\text{J}}$ 23'09	
	6649 Jul 12 01:52	0° $\mathbf{\text{E}}$		retrograde	6655 Mar 19 02:18	0° $\mathbf{\text{Z}}$	
retrograde	6649 Nov 02 03:25	16° $\mathbf{\text{E}}$ 15'29			6655 Apr 14 02:47	1° $\mathbf{\text{Z}}$ 02'14	
opposition	6649 Dec 31 16:02	11° $\mathbf{\text{E}}$ 13'02	-0°58'40	opposition	6655 May 10 00:04	30° $\mathbf{\text{R}}$ $\mathbf{\text{J}}$	
min. Earth dist.	6649 Dec 30 14:04	11° $\mathbf{\text{E}}$ 21'49	3.92289 AU	min. Earth dist.	6655 Jun 13 20:40	26° $\mathbf{\text{J}}$ 07'45	1°08'48
direct	6650 Feb 27 12:16	6° $\mathbf{\text{E}}$ 18'20		direct	6655 Jun 14 13:23	26° $\mathbf{\text{J}}$ 02'22	4.48891 AU
evening set	6650 Jul 04 01:35	26° $\mathbf{\text{E}}$ 13'31			6655 Aug 15 10:31	21° $\mathbf{\text{J}}$ 05'47	
				evening set	6655 Nov 07 15:58	0° $\mathbf{\text{Z}}$	
conjunction	6650 Jul 17 15:09	29° $\mathbf{\text{E}}$ 29'10	-0°25'46	max. Earth dist.	6655 Dec 19 02:40	8° $\mathbf{\text{Z}}$ 21'30	
minimum elong	6650 Jul 17 15:11	29° $\mathbf{\text{E}}$ 29'11	0°25'48		6655 Dec 30 13:09	10° $\mathbf{\text{Z}}$ 48'55	6.48081 AU
	6650 Jul 19 18:22	0° $\mathbf{\text{O}}$		conjunction	6656 Jan 01 01:06	11° $\mathbf{\text{Z}}$ 08'18	0°39'37
max. Earth dist.	6650 Jul 19 17:52	29° $\mathbf{\text{E}}$ 59'42	5.95486 AU	minimum elong	6656 Jan 01 01:07	11° $\mathbf{\text{Z}}$ 08'18	0°39'41
morning rise	6650 Jul 31 07:12	2° $\mathbf{\text{O}}$ 45'57		morning rise	6656 Jan 13 21:09	13° $\mathbf{\text{Z}}$ 54'02	
	6650 Sep 24 22:53	15° $\mathbf{\text{O}}$			6656 Apr 23 14:27	0° $\mathbf{\text{A}}$	
retrograde	6650 Dec 09 07:35	23° $\mathbf{\text{O}}$ 07'14		retrograde	6656 May 13 06:23	0° $\mathbf{\text{A}}$ 35'50	
min. Earth dist.	6651 Feb 05 06:25	18° $\mathbf{\text{O}}$ 15'17	4.01015 AU		6656 Jun 01 22:21	30° $\mathbf{\text{R}}$ $\mathbf{\text{Z}}$	
opposition	6651 Feb 06 19:22	18° $\mathbf{\text{O}}$ 02'42	-0°14'43	opposition	6656 Jul 13 05:10	25° $\mathbf{\text{Z}}$ 43'06	0°42'26
	6651 Mar 03 00:14	15° $\mathbf{\text{R}}$ $\mathbf{\text{O}}$		min. Earth dist.	6656 Jul 14 12:23	25° $\mathbf{\text{Z}}$ 33'08	4.45324 AU
direct	6651 Apr 06 00:24	13° $\mathbf{\text{O}}$ 05'38		direct	6656 Sep 13 22:02	20° $\mathbf{\text{Z}}$ 41'49	
	6651 May 10 01:55	15° $\mathbf{\text{O}}$			6656 Dec 08 18:17	0° $\mathbf{\text{A}}$	
asc. node	6651 Jun 07 04:50	18° $\mathbf{\text{O}}$ 58'00		evening set	6657 Jan 17 10:30	8° $\mathbf{\text{A}}$ 10'37	
	6651 Jul 30 22:28	0° $\mathbf{\text{P}}$		max. Earth dist.	6657 Jan 28 02:43	10° $\mathbf{\text{A}}$ 30'57	6.40588 AU
evening set	6651 Aug 10 13:42	2° $\mathbf{\text{P}}$ 26'49					

conjunction	6657 Jan 30 05:33	10° \approx 58'54	0°16'25	minimum elong	6662 Jul 22 21:49	4° Ω 43'10	0°21'36
minimum elong	6657 Jan 30 05:33	10° \approx 58'54	0°16'28	max. Earth dist.	6662 Jul 25 03:54	5° Ω 15'34	5.96928 AU
morning rise	6657 Feb 11 22:41	13° \approx 46'28		morning rise	6662 Aug 05 14:22	7° Ω 59'28	
	6657 Feb 17 13:42	15° \approx			6662 Sep 05 01:57	15° Ω	
	6657 May 19 03:32	0° \mathcal{H}		retrograde	6662 Dec 14 06:32	28° Ω 12'30	
retrograde	6657 Jun 13 23:04	1° \mathcal{H} 01'07		min. Earth dist.	6663 Feb 10 04:29	23° Ω 20'48	4.02915 AU
	6657 Jul 09 18:21	30° $\mathcal{R}\approx$		opposition	6663 Feb 11 18:11	23° Ω 07'58	-0°07'55
opposition	6657 Aug 13 20:35	26° \approx 08'43	0°03'40	direct	6663 Apr 11 01:02	18° Ω 10'35	
min. Earth dist.	6657 Aug 15 11:56	25° \approx 56'10	4.34301 AU	asc. node	6663 Apr 17 13:44	18° Ω 14'57	
desc. node	6657 Sep 17 03:46	22° \approx 18'52			6663 Jul 13 07:24	0° \mathcal{H}	
direct	6657 Oct 15 02:07	21° \approx 08'52		evening set	6663 Aug 15 14:59	7° \mathcal{H} 25'29	
	6658 Jan 05 02:29	0° \mathcal{H}					
evening set	6658 Feb 17 13:01	9° \mathcal{H} 10'07		conjunction	6663 Aug 29 07:33	10° \mathcal{H} 35'33	0°10'45
max. Earth dist.	6658 Feb 28 00:16	11° \mathcal{H} 32'15	6.26820 AU	minimum elong	6663 Aug 29 07:32	10° \mathcal{H} 35'33	0°10'44
				behind sun begin	6663 Aug 29 01:12	10° \mathcal{H} 31'53	
conjunction	6658 Mar 02 06:42	12° \mathcal{H} 03'10	-0°12'14	behind sun end	6663 Aug 29 13:53	10° \mathcal{H} 39'12	
minimum elong	6658 Mar 02 06:41	12° \mathcal{H} 03'10	0°12'14	max. Earth dist.	6663 Aug 31 17:10	11° \mathcal{H} 08'55	6.10335 AU
behind sun begin	6658 Mar 02 01:16	12° \mathcal{H} 00'06		morning rise	6663 Sep 12 01:13	13° \mathcal{H} 45'47	
behind sun end	6658 Mar 02 12:06	12° \mathcal{H} 06'14			6663 Dec 05 19:08	0° $\underline{\Omega}$	
morning rise	6658 Mar 14 23:45	14° \mathcal{H} 56'10		retrograde	6664 Jan 17 10:24	2° $\underline{\Omega}$ 49'05	
	6658 Jun 01 17:19	0° \mathcal{Y}			6664 Feb 29 00:17	30° $\mathcal{R}\mathcal{H}$	
retrograde	6658 Jul 17 21:51	3° \mathcal{Y} 10'25		min. Earth dist.	6664 Mar 15 19:47	27° \mathcal{H} 56'45	4.18427 AU
	6658 Sep 02 21:51	30° $\mathcal{R}\mathcal{H}$		opposition	6664 Mar 17 05:16	27° \mathcal{H} 45'26	0°37'46
opposition	6658 Sep 16 13:40	28° \mathcal{H} 16'50	-0°38'40	direct	6664 May 15 14:40	22° \mathcal{H} 45'32	
min. Earth dist.	6658 Sep 18 00:24	28° \mathcal{H} 05'38	4.18630 AU		6664 Jul 26 10:50	0° $\underline{\Omega}$	
direct	6658 Nov 16 15:35	23° \mathcal{H} 19'04		evening set	6664 Sep 19 02:28	11° $\underline{\Omega}$ 13'22	
	6659 Jan 24 04:11	0° \mathcal{Y}					
evening set	6659 Mar 22 07:39	12° \mathcal{Y} 06'21		conjunction	6664 Oct 02 16:34	14° $\underline{\Omega}$ 15'05	0°37'46
max. Earth dist.	6659 Apr 02 11:50	14° \mathcal{Y} 43'43	6.10525 AU	minimum elong	6664 Oct 02 16:32	14° $\underline{\Omega}$ 15'04	0°37'47
				max. Earth dist.	6664 Oct 04 11:15	14° $\underline{\Omega}$ 38'55	6.26614 AU
conjunction	6659 Apr 04 02:56	15° \mathcal{Y} 06'44	-0°38'23	morning rise	6664 Oct 16 05:46	17° $\underline{\Omega}$ 16'06	
minimum elong	6659 Apr 04 02:54	15° \mathcal{Y} 06'44	0°38'24		6664 Dec 19 17:11	0° \mathcal{M}	
morning rise	6659 Apr 16 22:37	18° \mathcal{Y} 07'43		retrograde	6665 Feb 17 06:14	5° \mathcal{M} 08'45	
	6659 Jun 10 23:37	0° \mathcal{B}		opposition	6665 Apr 18 09:25	0° \mathcal{M} 08'09	1°08'08
retrograde	6659 Aug 23 11:27	7° \mathcal{B} 36'19		min. Earth dist.	6665 Apr 17 14:04	0° \mathcal{M} 14'34	4.34043 AU
opposition	6659 Oct 22 16:32	2° \mathcal{B} 40'24	-1°11'07		6665 Apr 19 09:58	30° $\mathcal{R}\underline{\Omega}$	
min. Earth dist.	6659 Oct 23 11:25	2° \mathcal{B} 34'13	4.03031 AU	direct	6665 Jun 18 03:04	25° $\underline{\Omega}$ 06'44	
	6659 Nov 13 06:57	30° $\mathcal{R}\mathcal{Y}$			6665 Aug 16 03:57	0° \mathcal{M}	
direct	6659 Dec 21 08:15	27° \mathcal{Y} 45'03		evening set	6665 Oct 22 09:47	12° \mathcal{M} 53'45	
	6660 Jan 27 20:02	0° \mathcal{B}			6665 Nov 01 02:49	15° \mathcal{M}	
	6660 Apr 15 16:00	15° \mathcal{B}					
evening set	6660 Apr 25 07:31	17° \mathcal{B} 18'07		conjunction	6665 Nov 04 18:12	15° \mathcal{M} 47'29	0°51'56
				minimum elong	6665 Nov 04 18:12	15° \mathcal{M} 47'28	0°51'58
conjunction	6660 May 08 07:26	20° \mathcal{B} 26'37	-0°52'16	max. Earth dist.	6665 Nov 05 08:13	15° \mathcal{M} 55'05	6.40366 AU
minimum elong	6660 May 08 07:26	20° \mathcal{B} 26'36	0°52'19	morning rise	6665 Nov 18 00:57	18° \mathcal{M} 40'09	
max. Earth dist.	6660 May 07 20:36	20° \mathcal{B} 20'03	5.97052 AU		6666 Jan 15 00:14	0° \mathcal{Z}	
morning rise	6660 May 21 09:29	23° \mathcal{B} 36'25		retrograde	6666 Mar 19 12:43	5° \mathcal{Z} 41'50	
	6660 Jun 17 16:22	0° \mathcal{H}		opposition	6666 May 19 00:41	0° \mathcal{Z} 44'45	1°17'24
retrograde	6660 Sep 29 20:52	14° \mathcal{H} 07'53		min. Earth dist.	6666 May 19 00:36	0° \mathcal{Z} 44'46	4.45063 AU
opposition	6660 Nov 28 15:34	9° \mathcal{H} 08'32	-1°18'16		6666 May 24 18:18	30° $\mathcal{R}\mathcal{M}$	
min. Earth dist.	6660 Nov 28 09:03	9° \mathcal{H} 10'42	3.93147 AU	direct	6666 Jul 19 22:30	25° \mathcal{M} 42'44	
direct	6661 Jan 26 00:12	4° \mathcal{H} 14'27			6666 Sep 13 17:56	0° \mathcal{Z}	
evening set	6661 Jun 01 08:19	24° \mathcal{H} 13'34		evening set	6666 Nov 22 21:28	13° \mathcal{Z} 04'43	
				max. Earth dist.	6666 Dec 05 10:37	15° \mathcal{Z} 45'57	6.47879 AU
conjunction	6661 Jun 14 15:48	27° \mathcal{H} 28'07	-0°46'13				
minimum elong	6661 Jun 14 15:49	27° \mathcal{H} 28'08	0°46'17	conjunction	6666 Dec 06 00:13	15° \mathcal{Z} 53'15	0°51'11
max. Earth dist.	6661 Jun 15 18:09	27° \mathcal{H} 44'12	5.91738 AU	minimum elong	6666 Dec 06 00:14	15° \mathcal{Z} 53'15	0°51'14
	6661 Jun 25 01:07	0° \mathcal{E}		morning rise	6666 Dec 19 00:24	18° \mathcal{Z} 40'34	
morning rise	6661 Jun 28 02:00	0° \mathcal{E} 44'10			6667 Feb 15 20:21	0° \mathcal{Z}	
retrograde	6661 Nov 07 10:07	21° \mathcal{E} 34'10		retrograde	6667 Apr 18 06:25	5° \mathcal{Z} 18'55	
opposition	6662 Jan 05 22:02	16° \mathcal{E} 31'20	-0°53'30	opposition	6667 Jun 18 02:02	0° \mathcal{Z} 24'45	1°06'02
min. Earth dist.	6662 Jan 04 18:40	16° \mathcal{E} 40'37	3.93109 AU	min. Earth dist.	6667 Jun 18 19:55	0° \mathcal{Z} 19'00	4.48733 AU
direct	6662 Mar 04 19:18	11° \mathcal{E} 36'23			6667 Jun 21 07:06	30° $\mathcal{R}\mathcal{Z}$	
	6662 Jul 03 03:37	0° Ω		direct	6667 Aug 19 15:58	25° \mathcal{Z} 22'56	
evening set	6662 Jul 09 07:26	1° Ω 27'50			6667 Oct 17 02:30	0° \mathcal{Z}	
				evening set	6667 Dec 23 08:55	12° \mathcal{Z} 39'40	
conjunction	6662 Jul 22 21:48	4° Ω 43'10	-0°21'33	max. Earth dist.	6668 Jan 03 16:27	15° \mathcal{Z} 05'49	6.47429 AU

conjunction	6668 Jan 05 06:41	15° ♁ 26'29	0°36'53	conjunction	6673 Jun 19 17:39	2° ♁ 34'38	-0°43'49
minimum elong	6668 Jan 05 06:42	15° ♁ 26'29	0°36'55	minimum elong	6673 Jun 19 17:41	2° ♁ 34'39	0°43'52
morning rise	6668 Jan 18 02:15	18° ♁ 12'17		max. Earth dist.	6673 Jun 21 00:01	2° ♁ 53'07	5.92052 AU
	6668 Mar 19 11:42	0° \approx		morning rise	6673 Jul 03 04:53	5° ♁ 50'59	
retrograde	6668 May 17 15:51	4° \approx 57'01		retrograde	6673 Nov 12 11:04	26° ♁ 38'24	
opposition	6668 Jul 17 13:53	0° \approx 04'28	0°37'32	opposition	6674 Jan 10 22:19	21° ♁ 35'18	-0°48'11
	6668 Jul 18 03:53	30° ♁ 3		min. Earth dist.	6674 Jan 09 16:59	21° ♁ 45'14	3.93964 AU
min. Earth dist.	6668 Jul 18 23:07	29° ♁ 53'52	4.44234 AU	direct	6674 Mar 09 19:00	16° ♁ 40'05	
direct	6668 Sep 18 07:16	25° ♁ 03'25			6674 Jun 16 09:56	0° ♁	
	6668 Nov 17 12:31	0° \approx		evening set	6674 Jul 14 08:10	6° ♁ 28'06	
evening set	6669 Jan 21 18:00	12° \approx 35'19					
max. Earth dist.	6669 Feb 01 08:27	14° \approx 55'11	6.39161 AU	conjunction	6674 Jul 27 22:59	9° ♁ 43'04	-0°17'24
	6669 Feb 01 17:10	15° \approx		minimum elong	6674 Jul 27 23:01	9° ♁ 43'05	0°17'27
				max. Earth dist.	6674 Jul 30 04:39	10° ♁ 15'07	5.98220 AU
conjunction	6669 Feb 03 12:42	15° \approx 24'01	0°12'35	morning rise	6674 Aug 10 16:12	12° ♁ 58'59	
minimum elong	6669 Feb 03 12:42	15° \approx 24'01	0°12'38		6674 Aug 19 06:01	15° ♁	
behind sun begin	6669 Feb 03 07:34	15° \approx 21'12			6674 Nov 04 13:02	0° ♁	
behind sun end	6669 Feb 03 17:50	15° \approx 26'50		retrograde	6674 Dec 18 23:05	3° ♁ 04'51	
morning rise	6669 Feb 16 05:43	18° \approx 12'05			6675 Feb 01 10:38	30° ♁	
	6669 Apr 16 19:54	0° ♁		min. Earth dist.	6675 Feb 14 22:33	28° ♁ 13'04	4.04500 AU
retrograde	6669 Jun 18 12:38	5° ♁ 32'46		opposition	6675 Feb 16 12:02	28° ♁ 00'18	-0°01'26
desc. node	6669 Jul 28 07:51	3° ♁ 13'29		asc. node	6675 Feb 28 04:12	26° ♁ 26'44	
opposition	6669 Aug 18 10:44	0° ♁ 40'13	-0°02'16	direct	6675 Apr 15 21:29	23° ♁ 02'32	
min. Earth dist.	6669 Aug 20 00:56	0° ♁ 28'00	4.32638 AU		6675 Jun 23 15:32	0° ♁	
	6669 Aug 23 16:54	30° ♁		evening set	6675 Aug 20 12:01	12° ♁ 12'43	
direct	6669 Oct 19 12:53	25° \approx 40'38					
	6669 Dec 13 17:13	0° ♁		conjunction	6675 Sep 03 04:44	15° ♁ 22'00	0°14'52
evening set	6670 Feb 21 23:58	13° ♁ 46'18		minimum elong	6675 Sep 03 04:43	15° ♁ 22'00	0°14'51
max. Earth dist.	6670 Mar 04 14:17	16° ♁ 10'44	6.25064 AU	behind sun begin	6675 Sep 03 01:46	15° ♁ 20'18	
				behind sun end	6675 Sep 03 07:39	15° ♁ 23'41	
conjunction	6670 Mar 06 17:42	16° ♁ 40'03	-0°16'12	max. Earth dist.	6675 Sep 05 13:49	15° ♁ 54'56	6.12093 AU
minimum elong	6670 Mar 06 17:41	16° ♁ 40'03	0°16'12	morning rise	6675 Sep 16 21:59	18° ♁ 31'17	
behind sun begin	6670 Mar 06 17:11	16° ♁ 39'45			6675 Nov 10 11:05	0° ♁	
behind sun end	6670 Mar 06 18:12	16° ♁ 40'20		retrograde	6676 Jan 21 22:01	7° ♁ 26'15	
morning rise	6670 Mar 19 10:43	19° ♁ 33'47		min. Earth dist.	6676 Mar 20 08:53	2° ♁ 33'41	4.20193 AU
	6670 May 07 20:56	0° ♁		opposition	6676 Mar 21 16:36	2° ♁ 23'00	0°42'55
retrograde	6670 Jul 22 19:26	7° ♁ 55'59			6676 Apr 09 04:01	30° ♁	
opposition	6670 Sep 21 10:24	3° ♁ 02'08	-0°44'01	direct	6676 May 20 05:50	27° ♁ 22'54	
min. Earth dist.	6670 Sep 22 20:00	2° ♁ 51'18	4.16905 AU		6676 Jun 30 14:47	0° ♁	
	6670 Oct 16 18:36	30° ♁		evening set	6676 Sep 23 18:13	15° ♁ 46'19	
direct	6670 Nov 21 09:22	28° ♁ 04'43					
	6670 Dec 26 15:10	0° ♁		conjunction	6676 Oct 07 07:39	18° ♁ 47'06	0°40'29
evening set	6671 Mar 26 23:50	16° ♁ 56'25		minimum elong	6676 Oct 07 07:37	18° ♁ 47'05	0°40'31
max. Earth dist.	6671 Apr 07 06:09	19° ♁ 35'39	6.08974 AU	max. Earth dist.	6676 Oct 08 22:23	19° ♁ 08'39	6.28245 AU
				morning rise	6676 Oct 20 20:19	21° ♁ 47'10	
conjunction	6671 Apr 08 19:18	19° ♁ 57'35	-0°41'11		6676 Nov 28 23:47	0° ♁	
minimum elong	6671 Apr 08 19:16	19° ♁ 57'34	0°41'12	retrograde	6677 Feb 21 11:30	9° ♁ 33'11	
morning rise	6671 Apr 21 15:40	22° ♁ 59'30		opposition	6677 Apr 22 16:05	4° ♁ 33'02	1°10'36
	6671 May 22 11:07	0° ♁		min. Earth dist.	6677 Apr 21 22:53	4° ♁ 38'44	4.35443 AU
retrograde	6671 Aug 28 13:01	12° ♁ 35'39			6677 Jun 05 04:40	30° ♁	
opposition	6671 Oct 27 18:20	7° ♁ 39'14	-1°13'45	direct	6677 Jun 22 13:17	29° ♁ 31'29	
min. Earth dist.	6671 Oct 28 09:22	7° ♁ 34'19	4.01805 AU		6677 Jul 10 02:17	0° ♁	
direct	6671 Dec 26 05:40	2° ♁ 44'05			6677 Oct 16 06:27	15° ♁	
	6672 Mar 29 15:34	15° ♁		evening set	6677 Oct 26 20:06	17° ♁ 15'29	
evening set	6672 Apr 30 05:03	22° ♁ 20'03					
				conjunction	6677 Nov 09 03:55	20° ♁ 08'31	0°52'38
conjunction	6672 May 13 05:50	25° ♁ 29'16	-0°52'39	minimum elong	6677 Nov 09 03:55	20° ♁ 08'30	0°52'41
minimum elong	6672 May 13 05:49	25° ♁ 29'16	0°52'41	max. Earth dist.	6677 Nov 09 15:42	20° ♁ 14'54	6.41449 AU
max. Earth dist.	6672 May 13 00:22	25° ♁ 25'57	5.96274 AU	morning rise	6677 Nov 22 09:38	23° ♁ 00'24	
morning rise	6672 May 26 08:40	28° ♁ 39'49			6677 Dec 26 06:07	0° ♁	
	6672 May 31 22:19	0° ♁		retrograde	6678 Mar 23 15:50	9° ♁ 58'15	
retrograde	6672 Oct 05 01:47	19° ♁ 14'58		opposition	6678 May 23 05:05	5° ♁ 01'38	1°16'55
opposition	6672 Dec 03 19:05	14° ♁ 15'06	-1°16'39	min. Earth dist.	6678 May 23 06:49	5° ♁ 01'04	4.45773 AU
min. Earth dist.	6672 Dec 03 10:44	14° ♁ 17'53	3.92906 AU		6678 Jul 22 07:46	30° ♁	
direct	6673 Jan 31 02:23	9° ♁ 20'58		direct	6678 Jul 24 05:29	29° ♁ 59'40	
evening set	6673 Jun 06 09:09	29° ♁ 19'44			6678 Jul 26 03:13	0° ♁	
	6673 Jun 09 03:33	0° ♁		evening set	6678 Nov 27 04:18	17° ♁ 20'24	

conjunction	6678 Dec 10 06:09	20°♏08'31	0°49'52	conjunction	6684 May 18 06:56	0°♊39'26	-0°52'40
minimum elong	6678 Dec 10 06:10	20°♏08'31	0°49'56	minimum elong	6684 May 18 06:56	0°♊39'26	0°52'43
max. Earth dist.	6678 Dec 09 12:07	19°♏58'50	6.48154 AU	max. Earth dist.	6684 May 18 05:42	0°♊38'41	5.95013 AU
morning rise	6678 Dec 23 05:46	22°♏55'30		morning rise	6684 May 31 10:58	3°♊51'07	
	6679 Jan 26 20:29	0°♏		retrograde	6684 Oct 10 09:27	24°♊31'41	
retrograde	6679 Apr 22 11:32	9°♏33'11		opposition	6684 Dec 09 01:46	19°♊31'21	-1°14'25
opposition	6679 Jun 22 06:50	4°♏39'18	1°02'55	min. Earth dist.	6684 Dec 08 13:46	19°♊35'22	3.92280 AU
min. Earth dist.	6679 Jun 23 03:32	4°♏32'39	4.48555 AU	direct	6685 Feb 05 05:13	14°♊37'14	
	6679 Aug 08 03:17	30°♏♏			6685 May 23 04:50	0°♏	
direct	6679 Aug 23 23:08	29°♏37'31		evening set	6685 Jun 11 14:37	4°♏37'18	
	6679 Sep 08 20:10	0°♏					
evening set	6679 Dec 27 13:55	16°♏55'04		conjunction	6685 Jun 25 00:06	7°♏52'39	-0°40'58
max. Earth dist.	6680 Jan 07 19:36	19°♏20'27	6.46786 AU	minimum elong	6685 Jun 25 00:07	7°♏52'40	0°41'01
				max. Earth dist.	6685 Jun 26 09:28	8°♏12'57	5.92115 AU
conjunction	6680 Jan 09 11:19	19°♏41'56	0°33'57	morning rise	6685 Jul 08 12:30	11°♏09'29	
minimum elong	6680 Jan 09 11:20	19°♏41'57	0°34'00		6685 Oct 14 01:34	0°♏	
morning rise	6680 Jan 22 06:18	22°♏27'48		retrograde	6685 Nov 17 15:23	1°♏54'57	
	6680 Feb 27 23:12	0°♏			6685 Dec 22 02:06	30°♏♏	
retrograde	6680 May 21 21:50	9°♏15'25		min. Earth dist.	6686 Jan 14 19:18	27°♏02'08	3.94705 AU
opposition	6680 Jul 21 21:34	4°♏22'54	0°32'27	opposition	6686 Jan 16 02:37	26°♏51'29	-0°42'17
min. Earth dist.	6680 Jul 23 07:01	4°♏12'14	4.43141 AU	direct	6686 Mar 14 23:58	21°♏55'56	
	6680 Sep 01 23:48	30°♏♏			6686 May 27 13:51	0°♏	
direct	6680 Sep 22 13:01	29°♏22'01		evening set	6686 Jul 19 13:57	11°♏40'57	
	6680 Oct 13 05:42	0°♏					
	6681 Jan 17 01:06	15°♏		conjunction	6686 Aug 02 05:34	14°♏55'36	-0°12'56
evening set	6681 Jan 26 00:08	16°♏57'02		minimum elong	6686 Aug 02 05:35	14°♏55'36	0°12'58
max. Earth dist.	6681 Feb 05 14:02	19°♏17'06	6.37663 AU	behind sun begin	6686 Aug 02 00:35	14°♏52'38	
				behind sun end	6686 Aug 02 10:34	14°♏58'33	
conjunction	6681 Feb 07 18:29	19°♏46'09	0°08'42		6686 Aug 02 13:00	15°♏	
minimum elong	6681 Feb 07 18:29	19°♏46'09	0°08'44	max. Earth dist.	6686 Aug 04 14:17	15°♏29'20	5.99590 AU
behind sun begin	6681 Feb 07 11:35	19°♏42'21		morning rise	6686 Aug 15 23:02	18°♏10'59	
behind sun end	6681 Feb 08 01:24	19°♏49'58			6686 Oct 09 04:58	0°♏	
morning rise	6681 Feb 20 11:18	22°♏34'45		retrograde	6686 Dec 23 21:33	8°♏08'45	
	6681 Mar 27 14:53	0°♏		asc. node	6687 Jan 08 03:35	7°♏45'16	
desc. node	6681 Jun 07 11:38	9°♏39'14		min. Earth dist.	6687 Feb 19 20:47	3°♏16'56	4.06343 AU
retrograde	6681 Jun 23 03:03	10°♏01'58		opposition	6687 Feb 21 10:02	3°♏04'15	0°05'22
opposition	6681 Aug 23 00:04	5°♏09'21	-0°08'13		6687 Mar 17 21:07	30°♏♏	
min. Earth dist.	6681 Aug 24 15:17	4°♏56'48	4.30790 AU	direct	6687 Apr 20 22:34	28°♏06'12	
direct	6681 Oct 24 00:38	0°♏10'01			6687 May 25 04:34	0°♏	
evening set	6682 Feb 26 10:16	18°♏20'58		evening set	6687 Aug 25 13:18	17°♏10'24	
max. Earth dist.	6682 Mar 09 00:18	20°♏45'58	6.22995 AU				
				conjunction	6687 Sep 08 05:45	20°♏18'37	0°19'05
conjunction	6682 Mar 11 04:00	21°♏15'34	-0°20'06	minimum elong	6687 Sep 08 05:43	20°♏18'37	0°19'04
minimum elong	6682 Mar 11 03:59	21°♏15'34	0°20'05	max. Earth dist.	6687 Sep 10 13:41	20°♏50'42	6.14252 AU
morning rise	6682 Mar 23 21:21	24°♏10'16		morning rise	6687 Sep 21 22:44	23°♏26'45	
	6682 Apr 19 03:34	0°♏			6687 Oct 21 17:33	0°♏	
retrograde	6682 Jul 27 15:44	12°♏41'51		retrograde	6688 Jan 26 09:45	12°♏11'31	
opposition	6682 Sep 26 06:44	7°♏47'43	-0°49'11	min. Earth dist.	6688 Mar 24 23:34	7°♏19'04	4.22487 AU
min. Earth dist.	6682 Sep 27 13:49	7°♏37'40	4.14763 AU	opposition	6688 Mar 26 06:47	7°♏08'33	0°47'58
direct	6682 Nov 26 00:30	2°♏50'36		direct	6688 May 25 00:06	2°♏08'11	
evening set	6683 Mar 31 16:42	21°♏48'43		evening set	6688 Sep 28 12:08	20°♏25'01	
max. Earth dist.	6683 Apr 12 03:43	24°♏31'24	6.06946 AU				
				conjunction	6688 Oct 12 00:52	23°♏24'32	0°43'03
conjunction	6683 Apr 13 12:45	24°♏51'00	-0°43'46	minimum elong	6688 Oct 12 00:51	23°♏24'31	0°43'04
minimum elong	6683 Apr 13 12:43	24°♏50'59	0°43'48	max. Earth dist.	6688 Oct 13 12:53	23°♏44'28	6.30516 AU
morning rise	6683 Apr 26 09:43	27°♏54'05		morning rise	6688 Oct 25 12:30	26°♏23'13	
	6683 May 05 08:32	0°♏			6688 Nov 11 05:27	0°♏	
	6683 Jul 23 02:33	15°♏		retrograde	6689 Feb 25 18:21	14°♏00'15	
retrograde	6683 Sep 02 19:36	17°♏39'55		opposition	6689 Apr 26 23:45	9°♏00'34	1°12'44
	6683 Oct 14 19:55	15°♏♏		min. Earth dist.	6689 Apr 26 09:05	9°♏05'24	4.37513 AU
opposition	6683 Nov 01 21:50	12°♏43'06	-1°15'59	direct	6689 Jun 27 02:17	3°♏58'53	
min. Earth dist.	6683 Nov 02 11:02	12°♏38'46	4.00077 AU		6689 Sep 29 07:07	15°♏	
direct	6683 Dec 31 05:29	7°♏48'10		evening set	6689 Oct 31 06:34	21°♏37'24	
	6684 Mar 09 15:34	15°♏					
evening set	6684 May 05 05:09	27°♏29'10		conjunction	6689 Nov 13 13:25	24°♏29'22	0°53'06
	6684 May 15 14:02	0°♏		minimum elong	6689 Nov 13 13:25	24°♏29'22	0°53'10
				max. Earth dist.	6689 Nov 13 20:37	24°♏33'16	6.43158 AU

morning rise	6689 Nov 26 18:16	27° \mathbb{M} 20'13		6696 Feb 09 20:58	15° \mathcal{B}	
	6689 Dec 09 07:16	0° \mathcal{A}		6696 Apr 28 23:51	0° \mathbb{I}	
retrograde	6690 Mar 27 17:41	14° \mathcal{A} 12'15		evening set	6696 May 10 07:59	2° \mathbb{I} 43'16
opposition	6690 May 27 08:38	9° \mathcal{A} 15'59	1°16'04			
min. Earth dist.	6690 May 27 13:00	9° \mathcal{A} 14'34	4.47022 AU	conjunction	6696 May 23 10:47	5° \mathbb{I} 54'47 -0°52'15
direct	6690 Jul 28 12:24	4° \mathcal{A} 13'54		minimum elong	6696 May 23 10:48	5° \mathbb{I} 54'48 0°52'19
evening set	6690 Dec 01 08:57	21° \mathcal{A} 31'34		max. Earth dist.	6696 May 23 14:08	5° \mathbb{I} 56'50 5.93451 AU
				morning rise	6696 Jun 05 16:08	9° \mathbb{I} 07'47
conjunction	6690 Dec 14 10:11	24° \mathcal{A} 19'08	0°48'22	retrograde	6696 Oct 15 20:13	29° \mathbb{I} 54'49
minimum elong	6690 Dec 14 10:12	24° \mathcal{A} 19'09	0°48'25	opposition	6696 Dec 14 11:03	24° \mathbb{I} 53'58 -1°11'33
max. Earth dist.	6690 Dec 13 13:55	24° \mathcal{A} 08'16	6.48848 AU	min. Earth dist.	6696 Dec 13 19:32	24° \mathbb{I} 59'12 3.91494 AU
morning rise	6690 Dec 27 08:51	27° \mathcal{A} 05'32		direct	6697 Feb 10 12:24	19° \mathbb{I} 59'47
	6691 Jan 10 04:12	0° \mathcal{B}			6697 May 04 05:19	0° \mathcal{B}
retrograde	6691 Apr 26 11:59	13° \mathcal{B} 41'32		evening set	6697 Jun 16 23:16	10° \mathcal{B} 01'41
opposition	6691 Jun 26 09:32	8° \mathcal{B} 47'52	0°59'34			
min. Earth dist.	6691 Jun 27 08:07	8° \mathcal{B} 40'38	4.48643 AU	conjunction	6697 Jun 30 10:03	13° \mathcal{B} 17'35 -0°37'44
direct	6691 Aug 28 02:55	3° \mathcal{B} 46'08		minimum elong	6697 Jun 30 10:05	13° \mathcal{B} 17'36 0°37'47
evening set	6691 Dec 31 16:19	21° \mathcal{B} 03'42		max. Earth dist.	6697 Jul 02 01:57	13° \mathcal{B} 41'50 5.92196 AU
max. Earth dist.	6692 Jan 11 17:18	23° \mathcal{B} 26'50	6.46237 AU	morning rise	6697 Jul 13 23:24	16° \mathcal{B} 34'50
					6697 Sep 13 03:41	0° \mathcal{Q}
conjunction	6692 Jan 13 12:59	23° \mathcal{B} 50'31	0°30'56	retrograde	6697 Nov 22 23:39	7° \mathcal{Q} 17'43
minimum elong	6692 Jan 13 13:00	23° \mathcal{B} 50'32	0°30'59	min. Earth dist.	6698 Jan 20 00:36	2° \mathcal{Q} 25'10 3.95639 AU
morning rise	6692 Jan 26 07:38	26° \mathcal{B} 36'26		opposition	6698 Jan 21 09:39	2° \mathcal{Q} 13'55 -0°35'56
	6692 Feb 11 06:43	0° \mathcal{A}			6698 Feb 07 11:09	30° \mathcal{R} \mathcal{B}
retrograde	6692 May 26 03:55	13° \mathcal{A} 26'58		direct	6698 Mar 20 07:39	27° \mathcal{B} 18'06
opposition	6692 Jul 26 02:58	8° \mathcal{A} 34'30	0°27'21		6698 Apr 29 22:07	0° \mathcal{Q}
min. Earth dist.	6692 Jul 27 15:05	8° \mathcal{A} 22'58	4.41962 AU		6698 Jul 16 11:14	15° \mathcal{Q}
direct	6692 Sep 26 18:45	3° \mathcal{A} 33'39		evening set	6698 Jul 24 22:20	16° \mathcal{Q} 59'04
	6692 Dec 31 23:35	15° \mathcal{A}				
evening set	6693 Jan 30 03:48	21° \mathcal{A} 12'14		conjunction	6698 Aug 07 14:18	20° \mathcal{Q} 13'06 -0°08'18
max. Earth dist.	6693 Feb 09 15:54	23° \mathcal{A} 31'51	6.35927 AU	minimum elong	6698 Aug 07 14:18	20° \mathcal{Q} 13'07 0°08'19
				behind sun begin	6698 Aug 07 06:56	20° \mathcal{Q} 08'46
conjunction	6693 Feb 11 22:02	24° \mathcal{A} 01'56	0°04'52	behind sun end	6698 Aug 07 21:40	20° \mathcal{Q} 17'27
minimum elong	6693 Feb 11 22:03	24° \mathcal{A} 01'57	0°04'53	max. Earth dist.	6698 Aug 10 00:51	20° \mathcal{Q} 47'47 6.01248 AU
behind sun begin	6693 Feb 11 14:17	23° \mathcal{A} 57'39		morning rise	6698 Aug 21 08:11	23° \mathcal{Q} 27'50
behind sun end	6693 Feb 12 05:49	24° \mathcal{A} 06'14			6698 Sep 19 01:05	0° \mathcal{M}
morning rise	6693 Feb 24 14:44	26° \mathcal{A} 51'10		asc. node	6698 Nov 16 23:57	10° \mathcal{M} 31'47
	6693 Mar 11 00:15	0° \mathcal{K}		retrograde	6698 Dec 28 18:33	13° \mathcal{M} 16'01
desc. node	6693 Apr 18 23:33	7° \mathcal{K} 42'22		min. Earth dist.	6699 Feb 24 18:53	8° \mathcal{M} 24'33 4.08517 AU
retrograde	6693 Jun 27 14:07	14° \mathcal{K} 25'59		opposition	6699 Feb 26 09:12	8° \mathcal{M} 11'32 0°12'10
opposition	6693 Aug 27 11:28	9° \mathcal{K} 33'12	-0°14'02	direct	6699 Apr 26 00:39	3° \mathcal{M} 13'05
min. Earth dist.	6693 Aug 29 02:04	9° \mathcal{K} 20'51	4.28592 AU	evening set	6699 Aug 30 15:37	22° \mathcal{M} 10'10
direct	6693 Oct 28 07:33	4° \mathcal{K} 34'04				
evening set	6694 Mar 02 19:14	22° \mathcal{K} 51'47		conjunction	6699 Sep 13 07:43	25° \mathcal{M} 17'06 0°23'11
max. Earth dist.	6694 Mar 13 10:44	25° \mathcal{K} 18'25	6.20497 AU	minimum elong	6699 Sep 13 07:42	25° \mathcal{M} 17'06 0°23'11
				max. Earth dist.	6699 Sep 15 13:39	25° \mathcal{M} 47'53 6.16722 AU
conjunction	6694 Mar 15 13:08	25° \mathcal{K} 47'28	-0°23'48	morning rise	6699 Sep 27 00:05	28° \mathcal{M} 23'49
minimum elong	6694 Mar 15 13:07	25° \mathcal{K} 47'27	0°23'48		6699 Oct 04 03:13	0° \mathcal{A}
morning rise	6694 Mar 28 06:49	28° \mathcal{K} 43'20		retrograde	6700 Jan 31 00:03	16° \mathcal{A} 57'31
	6694 Apr 02 21:09	0° \mathcal{Y}		opposition	6700 Mar 31 21:19	11° \mathcal{A} 54'56 0°52'43
retrograde	6694 Aug 01 15:30	17° \mathcal{Y} 26'16		min. Earth dist.	6700 Mar 30 16:42	12° \mathcal{A} 04'32 4.24982 AU
opposition	6694 Oct 01 03:11	12° \mathcal{Y} 31'52	-0°54'01	direct	6700 May 30 20:39	6° \mathcal{A} 54'17
min. Earth dist.	6694 Oct 02 09:45	12° \mathcal{Y} 21'58	4.12132 AU	evening set	6700 Oct 04 06:00	25° \mathcal{A} 04'09
direct	6694 Nov 30 16:53	7° \mathcal{Y} 35'01				
evening set	6695 Apr 05 10:04	26° \mathcal{Y} 41'30		conjunction	6700 Oct 17 17:58	28° \mathcal{A} 02'22 0°45'22
max. Earth dist.	6695 Apr 17 00:29	29° \mathcal{Y} 27'05	6.04422 AU	minimum elong	6700 Oct 17 17:57	28° \mathcal{A} 02'21 0°45'24
				max. Earth dist.	6700 Oct 19 02:52	28° \mathcal{A} 20'29 6.32817 AU
conjunction	6695 Apr 18 06:49	29° \mathcal{Y} 45'11	-0°46'02		6700 Oct 26 15:40	0° \mathcal{M}
minimum elong	6695 Apr 18 06:48	29° \mathcal{Y} 45'10	0°46'04	morning rise	6700 Oct 31 04:38	0° \mathcal{M} 59'42
	6695 Apr 19 07:39	0° \mathcal{B}			6701 Jan 13 17:54	15° \mathcal{M}
morning rise	6695 May 01 04:43	2° \mathcal{B} 49'48		retrograde	6701 Mar 02 23:43	18° \mathcal{M} 28'08
	6695 Jun 25 22:09	15° \mathcal{B}			6701 Apr 20 15:02	15° \mathcal{R} \mathcal{M}
retrograde	6695 Sep 08 02:11	22° \mathcal{B} 47'17		opposition	6701 May 02 07:37	13° \mathcal{M} 28'56 1°14'28
opposition	6695 Nov 07 02:43	17° \mathcal{B} 50'04	-1°17'41	min. Earth dist.	6701 May 01 18:55	13° \mathcal{M} 33'08 4.39459 AU
min. Earth dist.	6695 Nov 07 12:02	17° \mathcal{B} 47'00	3.97929 AU	direct	6701 Jul 02 13:29	8° \mathcal{M} 27'10
	6695 Nov 30 01:09	15° \mathcal{R} \mathcal{B}			6701 Sep 10 12:43	15° \mathcal{M}
direct	6696 Jan 05 03:45	12° \mathcal{B} 55'25		evening set	6701 Nov 05 17:06	26° \mathcal{M} 00'56

conjunction	6701 Nov 18 23:04	28° \mathbb{M} 51'59	0°53'17	retrograde	6707 Sep 14 12:37	28° \mathbb{S} 05'39	
minimum elong	6701 Nov 18 23:04	28° \mathbb{M} 51'59	0°53'20	opposition	6707 Nov 13 11:46	23° \mathbb{S} 07'55	-1°18'48
max. Earth dist.	6701 Nov 19 02:13	28° \mathbb{M} 53'41	6.44611 AU	min. Earth dist.	6707 Nov 13 17:27	23° \mathbb{S} 06'03	3.96361 AU
	6701 Nov 24 05:10	0° \mathbb{A}		direct	6708 Jan 11 09:08	18° \mathbb{S} 13'27	
morning rise	6701 Dec 02 02:53	1° \mathbb{A} 41'53			6708 Apr 11 20:50	0° \mathbb{I}	
retrograde	6702 Apr 01 21:47	18° \mathbb{A} 29'24		evening set	6708 May 16 13:54	8° \mathbb{I} 05'29	
opposition	6702 Jun 01 13:28	13° \mathbb{A} 33'38	1°14'50				
min. Earth dist.	6702 Jun 01 21:08	13° \mathbb{A} 31'09	4.47898 AU	conjunction	6708 May 29 17:57	11° \mathbb{I} 17'57	-0°51'26
direct	6702 Aug 02 20:44	8° \mathbb{A} 31'35		minimum elong	6708 May 29 17:58	11° \mathbb{I} 17'58	0°51'29
evening set	6702 Dec 06 15:10	25° \mathbb{A} 47'33		max. Earth dist.	6708 May 30 04:26	11° \mathbb{I} 24'21	5.92626 AU
				morning rise	6708 Jun 12 00:21	14° \mathbb{I} 31'52	
conjunction	6702 Dec 19 15:35	28° \mathbb{A} 34'44	0°46'36		6708 Aug 23 12:01	0° \mathbb{S}	
minimum elong	6702 Dec 19 15:36	28° \mathbb{A} 34'44	0°46'39	retrograde	6708 Oct 22 08:49	5° \mathbb{S} 21'35	
max. Earth dist.	6702 Dec 18 14:15	28° \mathbb{A} 21'08	6.49077 AU	opposition	6708 Dec 20 21:36	0° \mathbb{S} 20'15	-1°08'02
	6702 Dec 26 06:32	0° \mathbb{S}		min. Earth dist.	6708 Dec 20 03:02	0° \mathbb{S} 26'30	3.91542 AU
morning rise	6703 Jan 01 13:40	1° \mathbb{S} 20'48			6708 Dec 23 09:44	30° \mathbb{R} \mathbb{I}	
retrograde	6703 May 01 17:03	17° \mathbb{S} 56'48		direct	6709 Feb 16 21:18	25° \mathbb{I} 25'58	
opposition	6703 Jul 01 14:50	13° \mathbb{S} 03'23	0°55'50		6709 Apr 11 08:18	0° \mathbb{S}	
min. Earth dist.	6703 Jul 02 16:03	12° \mathbb{S} 55'18	4.48227 AU	evening set	6709 Jun 23 08:28	15° \mathbb{S} 26'11	
direct	6703 Sep 02 09:03	8° \mathbb{S} 01'40					
evening set	6704 Jan 05 21:31	25° \mathbb{S} 20'56		conjunction	6709 Jul 06 20:02	18° \mathbb{S} 42'04	-0°34'12
max. Earth dist.	6704 Jan 16 20:49	27° \mathbb{S} 43'29	6.45205 AU	minimum elong	6709 Jul 06 20:03	18° \mathbb{S} 42'05	0°34'16
				max. Earth dist.	6709 Jul 08 15:22	19° \mathbb{S} 08'20	5.93092 AU
conjunction	6704 Jan 18 17:54	28° \mathbb{S} 07'59	0°27'39	morning rise	6709 Jul 20 10:25	21° \mathbb{S} 59'17	
minimum elong	6704 Jan 18 17:55	28° \mathbb{S} 07'59	0°27'43		6709 Aug 24 01:59	0° \mathbb{Q}	
	6704 Jan 27 08:00	0° \approx		retrograde	6709 Nov 29 02:40	12° \mathbb{Q} 35'48	
morning rise	6704 Jan 31 11:58	0° \approx 54'07		min. Earth dist.	6710 Jan 26 02:42	7° \mathbb{Q} 43'49	3.97281 AU
	6704 Apr 17 19:17	15° \approx		opposition	6710 Jan 27 14:20	7° \mathbb{Q} 31'42	-0°29'24
retrograde	6704 May 31 12:36	17° \approx 49'11		direct	6710 Mar 26 13:17	2° \mathbb{Q} 35'30	
	6704 Jul 14 20:47	15° \mathbb{R} \approx			6710 Jun 29 15:41	15° \mathbb{Q}	
opposition	6704 Jul 31 12:28	12° \approx 56'47	0°21'53	evening set	6710 Jul 31 04:18	22° \mathbb{Q} 10'02	
min. Earth dist.	6704 Aug 02 01:17	12° \approx 45'03	4.40369 AU				
direct	6704 Oct 02 01:49	7° \approx 56'08		conjunction	6710 Aug 13 20:31	25° \mathbb{Q} 23'08	-0°03'43
	6704 Dec 13 23:11	15° \approx		minimum elong	6710 Aug 13 20:32	25° \mathbb{Q} 23'09	0°03'45
evening set	6705 Feb 04 11:49	25° \approx 39'30		behind sun begin	6710 Aug 13 12:14	25° \mathbb{Q} 18'17	
max. Earth dist.	6705 Feb 14 22:23	27° \approx 58'58	6.33881 AU	behind sun end	6710 Aug 14 04:50	25° \mathbb{Q} 28'01	
				max. Earth dist.	6710 Aug 16 07:24	25° \mathbb{Q} 57'49	6.03463 AU
conjunction	6705 Feb 17 05:45	28° \approx 29'54	0°00'46	morning rise	6710 Aug 27 14:26	28° \mathbb{Q} 36'47	
minimum elong	6705 Feb 17 05:44	28° \approx 29'54	0°00'48		6710 Sep 02 13:44	0° \mathbb{P}	
behind sun begin	6705 Feb 16 21:46	28° \approx 25'28		asc. node	6710 Sep 27 22:47	5° \mathbb{P} 40'50	
behind sun end	6705 Feb 17 13:42	28° \approx 34'19		retrograde	6711 Jan 03 13:52	18° \mathbb{P} 13'42	
	6705 Feb 23 22:59	0° \mathbb{H}		min. Earth dist.	6711 Mar 02 16:03	13° \mathbb{P} 21'47	4.11035 AU
desc. node	6705 Feb 27 10:26	0° \mathbb{H} 46'32		opposition	6711 Mar 04 04:48	13° \mathbb{P} 09'18	0°18'37
morning rise	6705 Mar 01 22:30	1° \mathbb{H} 19'56		direct	6711 May 02 01:46	8° \mathbb{P} 10'27	
retrograde	6705 Jul 03 09:22	19° \mathbb{H} 03'32		evening set	6711 Sep 05 13:53	26° \mathbb{P} 59'33	
opposition	6705 Sep 02 04:29	14° \mathbb{H} 10'37	-0°20'03		6711 Sep 18 20:32	0° \mathbb{L}	
min. Earth dist.	6705 Sep 03 19:32	13° \mathbb{H} 58'05	4.26205 AU				
direct	6705 Nov 02 21:35	9° \mathbb{H} 11'42		conjunction	6711 Sep 19 05:39	0° \mathbb{L} 05'10	0°26'58
evening set	6706 Mar 08 09:21	27° \mathbb{H} 36'36		minimum elong	6711 Sep 19 05:37	0° \mathbb{L} 05'09	0°26'59
	6706 Mar 18 17:53	0° \mathbb{Y}		max. Earth dist.	6711 Sep 21 10:17	0° \mathbb{L} 35'01	6.19315 AU
max. Earth dist.	6706 Mar 19 02:52	0° \mathbb{Y} 05'12	6.17973 AU	morning rise	6711 Oct 02 21:17	3° \mathbb{L} 10'25	
				retrograde	6712 Feb 05 08:29	21° \mathbb{L} 33'09	
conjunction	6706 Mar 21 03:35	0° \mathbb{Y} 33'25	-0°27'33	min. Earth dist.	6712 Apr 04 04:46	16° \mathbb{L} 40'09	4.27424 AU
minimum elong	6706 Mar 21 03:34	0° \mathbb{Y} 33'24	0°27'33	opposition	6712 Apr 05 08:06	16° \mathbb{L} 31'01	0°56'57
morning rise	6706 Apr 02 21:38	3° \mathbb{Y} 30'31		direct	6712 Jun 04 11:00	11° \mathbb{L} 30'10	
retrograde	6706 Aug 07 18:13	22° \mathbb{Y} 24'41		evening set	6712 Oct 08 20:12	29° \mathbb{L} 33'32	
opposition	6706 Oct 07 04:50	17° \mathbb{Y} 29'59	-0°58'43		6712 Oct 10 20:41	0° \mathbb{M}	
min. Earth dist.	6706 Oct 08 08:26	17° \mathbb{Y} 21'01	4.09693 AU				
direct	6706 Dec 06 11:55	12° \mathbb{Y} 33'31		conjunction	6712 Oct 22 07:14	2° \mathbb{M} 30'32	0°47'20
	6707 Apr 03 18:47	0° \mathbb{B}		minimum elong	6712 Oct 22 07:13	2° \mathbb{M} 30'31	0°47'23
evening set	6707 Apr 11 08:40	1° \mathbb{B} 47'27		max. Earth dist.	6712 Oct 23 10:39	2° \mathbb{M} 45'35	6.34916 AU
max. Earth dist.	6707 Apr 23 03:43	4° \mathbb{B} 36'37	6.02300 AU	morning rise	6712 Nov 04 17:01	5° \mathbb{M} 26'37	
					6712 Dec 21 16:23	15° \mathbb{M}	
conjunction	6707 Apr 24 06:00	4° \mathbb{B} 52'23	-0°48'05	retrograde	6713 Mar 07 04:52	22° \mathbb{M} 47'35	
minimum elong	6707 Apr 24 05:59	4° \mathbb{B} 52'22	0°48'06	opposition	6713 May 06 12:48	17° \mathbb{M} 48'57	1°15'45
morning rise	6707 May 07 04:51	7° \mathbb{B} 58'21		min. Earth dist.	6713 May 06 04:02	17° \mathbb{M} 51'49	4.41080 AU
	6707 Jun 06 15:22	15° \mathbb{B}			6713 May 29 08:24	15° \mathbb{R} \mathbb{M}	

direct	6713 Jul 06 23:35	12° \mathbb{M} 47'05		conjunction	6719 Apr 29 05:53	10° \mathcal{B} 01'15	-0°49'44
	6713 Aug 14 23:49	15° \mathbb{M}		minimum elong	6719 Apr 29 05:52	10° \mathcal{B} 01'15	0°49'47
	6713 Nov 08 16:35	0° \mathcal{A}		morning rise	6719 May 12 05:29	13° \mathcal{B} 08'21	
evening set	6713 Nov 10 01:00	0° \mathcal{A} 17'18			6719 May 20 01:20	15° \mathcal{B}	
					6719 Aug 03 20:17	0° \mathbb{I}	
conjunction	6713 Nov 23 06:15	3° \mathcal{A} 07'41	0°53'11	retrograde	6719 Sep 19 23:10	3° \mathbb{I} 23'24	
minimum elong	6713 Nov 23 06:15	3° \mathcal{A} 07'41	0°53'14		6719 Nov 06 16:59	30° \mathcal{R} 8	
max. Earth dist.	6713 Nov 23 05:11	3° \mathcal{A} 07'06	6.45636 AU	opposition	6719 Nov 18 20:16	28° \mathcal{B} 25'13	-1°19'14
morning rise	6713 Dec 06 09:11	5° \mathcal{A} 56'52		min. Earth dist.	6719 Nov 18 22:39	28° \mathcal{B} 24'25	3.95306 AU
retrograde	6714 Apr 05 23:37	22° \mathcal{A} 41'25		direct	6720 Jan 16 13:50	23° \mathcal{B} 30'56	
opposition	6714 Jun 05 16:38	17° \mathcal{A} 46'04	1°13'16		6720 Mar 21 16:24	0° \mathbb{I}	
min. Earth dist.	6714 Jun 06 02:29	17° \mathcal{A} 42'53	4.48300 AU	evening set	6720 May 21 19:06	13° \mathbb{I} 25'14	
direct	6714 Aug 07 00:59	12° \mathcal{A} 44'02					
evening set	6714 Dec 10 19:58	29° \mathcal{A} 59'53		conjunction	6720 Jun 03 24:00	16° \mathbb{I} 38'20	-0°50'11
	6714 Dec 10 20:12	0° \mathcal{B}		minimum elong	6720 Jun 04 00:01	16° \mathbb{I} 38'20	0°50'14
				max. Earth dist.	6720 Jun 04 14:18	16° \mathbb{I} 47'03	5.92269 AU
conjunction	6714 Dec 23 19:49	2° \mathcal{B} 46'56	0°44'37	morning rise	6720 Jun 17 07:42	19° \mathbb{I} 52'57	
minimum elong	6714 Dec 23 19:50	2° \mathcal{B} 46'56	0°44'40		6720 Jul 31 10:37	0° \mathcal{E}	
max. Earth dist.	6714 Dec 22 15:36	2° \mathcal{B} 31'46	6.48832 AU	retrograde	6720 Oct 27 15:38	10° \mathcal{E} 43'19	
morning rise	6715 Jan 05 17:12	5° \mathcal{B} 32'52		min. Earth dist.	6720 Dec 25 06:57	5° \mathcal{E} 49'02	3.91942 AU
retrograde	6715 May 05 22:24	22° \mathcal{B} 10'31		opposition	6720 Dec 26 05:19	5° \mathcal{E} 41'29	-1°03'57
opposition	6715 Jul 05 20:10	17° \mathcal{B} 17'25	0°51'53	direct	6721 Feb 22 02:59	0° \mathcal{E} 47'02	
min. Earth dist.	6715 Jul 06 23:47	17° \mathcal{B} 08'36	4.47359 AU	evening set	6721 Jun 28 15:09	20° \mathcal{E} 44'43	
direct	6715 Sep 06 14:29	12° \mathcal{B} 15'53					
evening set	6716 Jan 10 02:51	29° \mathcal{B} 38'13		conjunction	6721 Jul 12 03:39	24° \mathcal{E} 00'29	-0°30'27
	6716 Jan 11 19:06	0° \approx		minimum elong	6721 Jul 12 03:40	24° \mathcal{E} 00'30	0°30'30
max. Earth dist.	6716 Jan 20 22:08	1° \approx 59'08	6.43771 AU	max. Earth dist.	6721 Jul 14 02:21	24° \mathcal{E} 28'42	5.94198 AU
				morning rise	6721 Jul 25 18:42	27° \mathcal{E} 17'28	
conjunction	6716 Jan 22 22:42	2° \approx 25'38	0°24'16		6721 Aug 06 04:37	0° \mathcal{O}	
minimum elong	6716 Jan 22 22:43	2° \approx 25'38	0°24'18		6721 Oct 23 02:18	15° \mathcal{O}	
morning rise	6716 Feb 04 16:40	5° \approx 12'16		retrograde	6721 Dec 04 04:45	17° \mathcal{O} 47'17	
	6716 Mar 24 06:27	15° \approx			6722 Jan 15 06:12	15° \mathcal{R} 0	
retrograde	6716 Jun 05 00:43	22° \approx 13'22		min. Earth dist.	6722 Jan 31 04:30	12° \mathcal{O} 55'07	3.98946 AU
opposition	6716 Aug 04 23:18	17° \approx 21'01	0°16'18	opposition	6722 Feb 01 16:08	12° \mathcal{O} 42'58	-0°22'46
min. Earth dist.	6716 Aug 06 13:06	17° \approx 08'56	4.38462 AU	direct	6722 Mar 31 18:26	7° \mathcal{O} 46'24	
	6716 Aug 24 03:37	15° \mathcal{R} \approx			6722 Jun 09 08:39	15° \mathcal{O}	
direct	6716 Oct 06 10:18	12° \approx 20'35		evening set	6722 Aug 05 07:24	27° \mathcal{O} 14'52	
	6716 Nov 18 08:59	15° \approx		asc. node	6722 Aug 08 02:37	27° \mathcal{O} 54'06	
desc. node	6717 Jan 07 05:27	23° \approx 11'40			6722 Aug 17 01:39	0° \mathbb{N}	
evening set	6717 Feb 08 20:56	0° \mathcal{H} 09'44					
	6717 Feb 08 03:26	0° \mathcal{H}		conjunction	6722 Aug 18 23:56	0° \mathbb{N} 27'07	0°00'55
max. Earth dist.	6717 Feb 19 08:50	2° \mathcal{H} 30'37	6.31656 AU	minimum elong	6722 Aug 18 23:56	0° \mathbb{N} 27'07	0°00'53
				behind sun begin	6722 Aug 18 15:33	0° \mathbb{N} 22'14	
conjunction	6717 Feb 21 14:56	3° \mathcal{H} 01'00	-0°03'23	behind sun end	6722 Aug 19 08:20	0° \mathbb{N} 32'01	
minimum elong	6717 Feb 21 14:56	3° \mathcal{H} 01'00	0°03'21	max. Earth dist.	6722 Aug 21 12:06	1° \mathbb{N} 02'22	6.05524 AU
behind sun begin	6717 Feb 21 07:01	2° \mathcal{H} 56'35		morning rise	6722 Sep 01 17:47	3° \mathbb{N} 39'45	
behind sun end	6717 Feb 21 22:52	3° \mathcal{H} 05'26		retrograde	6723 Jan 08 05:58	23° \mathbb{N} 06'25	
morning rise	6717 Mar 06 07:37	5° \mathcal{H} 51'56		min. Earth dist.	6723 Mar 07 09:32	18° \mathbb{N} 14'35	4.13281 AU
retrograde	6717 Jul 08 04:47	23° \mathcal{H} 44'57		opposition	6723 Mar 08 22:01	18° \mathbb{N} 02'14	0°24'51
opposition	6717 Sep 06 23:08	18° \mathcal{H} 51'55	-0°26'00	direct	6723 May 06 21:51	13° \mathbb{N} 03'04	
min. Earth dist.	6717 Sep 08 12:46	18° \mathcal{H} 39'50	4.23825 AU		6723 Sep 02 13:33	0° \mathcal{A}	
direct	6717 Nov 07 11:01	13° \mathcal{H} 53'26		evening set	6723 Sep 10 10:38	1° \mathcal{A} 45'32	
	6718 Mar 02 10:43	0° \mathcal{Y}					
evening set	6718 Mar 13 01:03	2° \mathcal{Y} 25'24		conjunction	6723 Sep 24 01:46	4° \mathcal{A} 49'56	0°30'34
max. Earth dist.	6718 Mar 23 20:48	4° \mathcal{Y} 56'08	6.15630 AU	minimum elong	6723 Sep 24 01:44	4° \mathcal{A} 49'55	0°30'33
				max. Earth dist.	6723 Sep 26 02:04	5° \mathcal{A} 17'12	6.21546 AU
conjunction	6718 Mar 25 19:23	5° \mathcal{Y} 23'16	-0°31'08	morning rise	6723 Oct 07 16:53	7° \mathcal{A} 53'56	
minimum elong	6718 Mar 25 19:22	5° \mathcal{Y} 23'16	0°31'09	retrograde	6724 Feb 09 17:45	26° \mathcal{A} 07'20	
morning rise	6718 Apr 07 14:02	8° \mathcal{Y} 21'35		opposition	6724 Apr 09 18:01	21° \mathcal{A} 05'35	1°00'49
retrograde	6718 Aug 12 23:19	27° \mathcal{Y} 26'30		min. Earth dist.	6724 Apr 08 17:49	21° \mathcal{A} 13'41	4.29456 AU
opposition	6718 Oct 12 08:03	22° \mathcal{Y} 31'24	-1°03'01	direct	6724 Jun 09 01:53	16° \mathcal{A} 04'29	
min. Earth dist.	6718 Oct 13 08:52	22° \mathcal{Y} 23'18	4.07580 AU		6724 Sep 24 11:39	0° \mathbb{M}	
direct	6718 Dec 11 10:37	17° \mathcal{Y} 35'16		evening set	6724 Oct 13 09:46	4° \mathbb{M} 02'47	
	6719 Mar 17 07:38	0° \mathcal{B}					
evening set	6719 Apr 16 07:40	6° \mathcal{B} 55'13		conjunction	6724 Oct 26 20:14	6° \mathbb{M} 58'49	0°49'02
max. Earth dist.	6719 Apr 28 09:35	9° \mathcal{B} 49'03	6.00620 AU	minimum elong	6724 Oct 26 20:13	6° \mathbb{M} 58'48	0°49'05
				max. Earth dist.	6724 Oct 27 21:00	7° \mathbb{M} 12'22	6.36601 AU

morning rise	6724 Nov 09 04:59	9°♄53'50			6731 Feb 25 20:17	0°♄
	6724 Dec 03 07:32	15°♄		evening set	6731 Apr 21 04:31	11°♄55'40
retrograde	6725 Mar 11 08:27	27°♄08'42		max. Earth dist.	6731 May 03 09:50	14°♄51'59 5.99544 AU
opposition	6725 May 10 18:20	22°♄10'32 1°16'37			6731 May 03 23:09	15°♄
min. Earth dist.	6725 May 10 11:24	22°♄12'48 4.42323 AU				
direct	6725 Jul 11 07:34	17°♄08'37		conjunction	6731 May 04 03:13	15°♄02'27 -0°50'58
	6725 Oct 23 08:29	0°♄		minimum elong	6731 May 04 03:12	15°♄02'26 0°51'01
evening set	6725 Nov 14 09:30	4°♄36'18		morning rise	6731 May 17 03:49	18°♄10'27
					6731 Jul 09 10:12	0°♄
conjunction	6725 Nov 27 13:51	7°♄26'04 0°52'47		retrograde	6731 Sep 25 03:08	8°♄30'41
minimum elong	6725 Nov 27 13:51	7°♄26'04 0°52'50		opposition	6731 Nov 24 00:23	3°♄32'00 -1°18'58
max. Earth dist.	6725 Nov 27 07:56	7°♄22'52 6.46349 AU		min. Earth dist.	6731 Nov 23 22:49	3°♄32'31 3.94755 AU
morning rise	6725 Dec 10 16:04	10°♄14'41			6731 Dec 23 19:18	30°♄
retrograde	6726 Apr 10 04:51	26°♄57'11		direct	6732 Jan 21 14:32	28°♄37'47
opposition	6726 Jun 09 21:31	22°♄02'14 1°11'17			6732 Feb 19 06:10	0°♄
min. Earth dist.	6726 Jun 10 10:47	21°♄57'57 4.48460 AU		evening set	6732 May 26 19:49	18°♄32'44
direct	6726 Aug 11 08:41	17°♄00'15				
	6726 Nov 24 15:25	0°♄		conjunction	6732 Jun 09 01:48	21°♄46'17 -0°48'34
evening set	6726 Dec 15 02:08	4°♄16'21		minimum elong	6732 Jun 09 01:49	21°♄46'18 0°48'38
max. Earth dist.	6726 Dec 26 17:50	6°♄46'21 6.48435 AU		max. Earth dist.	6732 Jun 09 21:14	21°♄58'08 5.92304 AU
				morning rise	6732 Jun 22 10:23	25°♄01'20
conjunction	6726 Dec 28 01:25	7°♄03'20 0°42'21			6732 Jul 13 09:14	0°♄
minimum elong	6726 Dec 28 01:26	7°♄03'21 0°42'25		retrograde	6732 Nov 01 18:50	15°♄50'55
morning rise	6727 Jan 09 22:16	9°♄49'14		min. Earth dist.	6732 Dec 30 08:08	10°♄56'37 3.92553 AU
retrograde	6727 May 10 05:01	26°♄28'50		opposition	6732 Dec 31 07:35	10°♄48'41 -0°59'32
opposition	6727 Jul 10 03:19	21°♄35'55 0°47'34		direct	6733 Feb 27 05:43	5°♄54'02
min. Earth dist.	6727 Jul 11 07:54	21°♄26'46 4.46463 AU		evening set	6733 Jul 03 16:40	25°♄48'48
direct	6727 Sep 10 20:23	16°♄34'31				
	6727 Dec 26 15:04	0°♄		conjunction	6733 Jul 17 05:58	29°♄04'24 -0°26'39
evening set	6728 Jan 14 09:42	3°♄59'42		minimum elong	6733 Jul 17 05:59	29°♄04'25 0°26'41
max. Earth dist.	6728 Jan 25 04:59	6°♄21'03 6.42467 AU		max. Earth dist.	6733 Jul 19 07:25	29°♄34'11 5.95322 AU
					6733 Jul 21 02:20	0°♄
conjunction	6728 Jan 27 05:15	6°♄47'29 0°20'40		morning rise	6733 Jul 30 21:42	2°♄21'09
minimum elong	6728 Jan 27 05:16	6°♄47'29 0°20'43			6733 Sep 26 16:25	15°♄
morning rise	6728 Feb 08 22:47	9°♄34'29		retrograde	6733 Dec 09 01:05	22°♄44'23
	6728 Mar 05 13:05	15°♄		min. Earth dist.	6734 Feb 04 23:37	17°♄52'30 4.00466 AU
retrograde	6728 Jun 09 13:30	26°♄41'00		opposition	6734 Feb 06 12:08	17°♄40'04 -0°16'19
opposition	6728 Aug 09 11:45	21°♄48'41 0°10'31			6734 Feb 27 06:34	15°♄
min. Earth dist.	6728 Aug 11 01:59	21°♄36'29 4.36841 AU		direct	6734 Apr 05 15:33	12°♄43'12
direct	6728 Oct 10 20:42	16°♄48'34			6734 May 13 01:27	15°♄
desc. node	6728 Nov 17 00:12	18°♄49'44		asc. node	6734 Jun 20 10:08	21°♄04'14
	6729 Jan 22 18:01	0°♄			6734 Aug 01 02:11	0°♄
evening set	6729 Feb 13 07:00	4°♄42'10		evening set	6734 Aug 10 06:03	2°♄06'50
max. Earth dist.	6729 Feb 23 18:19	7°♄03'23 6.29852 AU				
				conjunction	6734 Aug 23 22:35	5°♄18'18 0°05'15
conjunction	6729 Feb 26 00:42	7°♄34'04 -0°07'26		minimum elong	6734 Aug 23 22:35	5°♄18'18 0°05'15
minimum elong	6729 Feb 26 00:41	7°♄34'03 0°07'25		behind sun begin	6734 Aug 23 14:29	5°♄13'36
behind sun begin	6729 Feb 25 17:24	7°♄29'58		behind sun end	6734 Aug 24 06:41	5°♄23'01
behind sun end	6729 Feb 26 07:59	7°♄38'09		max. Earth dist.	6734 Aug 26 08:16	5°♄51'57 6.07291 AU
morning rise	6729 Mar 10 17:34	10°♄25'46		morning rise	6734 Sep 06 16:32	8°♄30'07
retrograde	6729 Jul 13 00:34	28°♄26'43		retrograde	6735 Jan 12 18:09	27°♄48'11
opposition	6729 Sep 11 18:18	23°♄33'25 -0°31'46		min. Earth dist.	6735 Mar 12 00:13	22°♄56'03 4.15118 AU
min. Earth dist.	6729 Sep 13 06:16	23°♄21'51 4.21962 AU		opposition	6735 Mar 13 11:01	22°♄44'15 0°30'36
direct	6729 Nov 12 02:23	18°♄35'15		direct	6735 May 11 14:37	17°♄44'48
	6730 Feb 13 07:40	0°♄			6735 Aug 16 19:39	0°♄
evening set	6730 Mar 17 16:06	7°♄12'12		evening set	6735 Sep 15 03:42	6°♄22'30
max. Earth dist.	6730 Mar 28 16:26	9°♄46'09 6.13881 AU				
				conjunction	6735 Sep 28 18:37	9°♄25'59 0°33'48
conjunction	6730 Mar 30 10:49	10°♄10'55 -0°34'27		minimum elong	6735 Sep 28 18:36	9°♄25'59 0°33'48
minimum elong	6730 Mar 30 10:47	10°♄10'55 0°34'27		max. Earth dist.	6735 Sep 30 17:23	9°♄52'17 6.23325 AU
morning rise	6730 Apr 12 05:41	13°♄10'06		morning rise	6735 Oct 12 08:57	12°♄28'56
	6730 Jul 09 12:33	0°♄			6736 Jan 25 23:46	0°♄
retrograde	6730 Aug 18 01:21	2°♄23'14		retrograde	6736 Feb 14 00:36	0°♄34'53
	6730 Sep 26 21:18	30°♄			6736 Mar 03 21:54	30°♄
opposition	6730 Oct 17 09:13	27°♄27'48 -1°06'43		min. Earth dist.	6736 Apr 13 03:00	25°♄41'11 4.31044 AU
min. Earth dist.	6730 Oct 18 07:43	27°♄20'28 4.06105 AU		opposition	6736 Apr 14 01:34	25°♄33'40 1°04'10
direct	6730 Dec 16 07:50	22°♄32'01		direct	6736 Jun 13 12:38	20°♄32'30

	6736 Sep 06 21:06	0°♍		opposition	6741 Sep 16 12:25	28°♎13'36	-0°37'22
evening set	6736 Oct 17 21:34	8°♍27'17		min. Earth dist.	6741 Sep 18 00:01	28°♎02'09	4.19870 AU
				direct	6741 Nov 16 17:14	23°♎15'44	
conjunction	6736 Oct 31 07:08	11°♍22'29	0°50'22		6742 Jan 24 15:18	0°♎	
minimum elong	6736 Oct 31 07:07	11°♍22'28	0°50'25	evening set	6742 Mar 22 06:45	11°♎58'45	
max. Earth dist.	6736 Nov 01 02:48	11°♍33'12	6.37883 AU	max. Earth dist.	6742 Apr 02 08:15	14°♎34'10	6.11787 AU
morning rise	6736 Nov 13 15:12	14°♍16'40					
	6736 Nov 16 23:26	15°♍		conjunction	6742 Apr 04 01:40	14°♎58'29	-0°37'34
	6737 Feb 12 21:54	0°♎		minimum elong	6742 Apr 04 01:39	14°♎58'28	0°37'35
retrograde	6737 Mar 15 12:50	1°♎26'52		morning rise	6742 Apr 16 21:15	17°♎58'50	
	6737 Apr 15 00:03	30°♎			6742 Jun 11 22:31	0°♎	
opposition	6737 May 14 22:55	26°♎29'10	1°17'02	retrograde	6742 Aug 23 03:18	7°♎21'47	
min. Earth dist.	6737 May 14 19:02	26°♎30'26	4.43242 AU	opposition	6742 Oct 22 10:37	2°♎25'54	-1°10'03
direct	6737 Jul 15 15:53	21°♎27'12		min. Earth dist.	6742 Oct 23 05:45	2°♎19'39	4.04194 AU
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evening set	6737 Nov 18 16:59	8°♎53'14		direct	6742 Dec 21 04:15	27°♎30'20	
					6743 Jan 29 19:30	0°♎	
conjunction	6737 Dec 01 20:47	11°♎42'34	0°52'04		6743 Apr 17 17:39	15°♎	
minimum elong	6737 Dec 01 20:48	11°♎42'34	0°52'08	evening set	6743 Apr 26 02:17	16°♎59'34	
max. Earth dist.	6737 Dec 01 12:44	11°♎38'14	6.46848 AU				
morning rise	6737 Dec 14 22:05	14°♎30'41		conjunction	6743 May 09 01:55	20°♎07'27	-0°51'51
	6738 Mar 17 09:34	0°♎		minimum elong	6743 May 09 01:55	20°♎07'27	0°51'54
retrograde	6738 Apr 14 07:13	1°♎11'40		max. Earth dist.	6743 May 08 14:03	20°♎00'17	5.98002 AU
	6738 May 12 04:14	30°♎		morning rise	6743 May 22 03:22	23°♎16'35	
opposition	6738 Jun 14 01:37	26°♎17'01	1°08'55		6743 Jun 19 23:00	0°♎	
min. Earth dist.	6738 Jun 14 15:58	26°♎12'24	4.48525 AU	retrograde	6743 Sep 30 11:56	13°♎43'57	
direct	6738 Aug 15 13:11	21°♎15'07		opposition	6743 Nov 29 06:32	8°♎44'45	-1°18'10
	6738 Nov 06 22:57	0°♎		min. Earth dist.	6743 Nov 29 02:51	8°♎45'59	3.93754 AU
evening set	6738 Dec 19 07:30	8°♎31'32		direct	6744 Jan 26 18:00	3°♎50'34	
max. Earth dist.	6738 Dec 30 19:57	11°♎00'02	6.48046 AU	evening set	6744 May 31 23:48	23°♎47'59	
conjunction	6739 Jan 01 06:05	11°♎18'25	0°39'52	conjunction	6744 Jun 14 06:52	27°♎02'14	-0°46'33
minimum elong	6739 Jan 01 06:06	11°♎18'26	0°39'55	minimum elong	6744 Jun 14 06:54	27°♎02'15	0°46'37
morning rise	6739 Jan 14 02:24	14°♎04'16		max. Earth dist.	6744 Jun 15 06:47	27°♎16'49	5.91940 AU
	6739 Apr 22 04:48	0°♎			6744 Jun 26 10:58	0°♎	
retrograde	6739 May 14 12:16	0°♎45'43		morning rise	6744 Jun 27 16:41	0°♎18'00	
	6739 Jun 05 17:11	30°♎		retrograde	6744 Nov 07 01:00	21°♎07'47	
opposition	6739 Jul 14 09:57	25°♎52'56	0°43'00	min. Earth dist.	6745 Jan 04 10:27	16°♎14'08	3.92895 AU
min. Earth dist.	6739 Jul 15 16:54	25°♎43'03	4.45616 AU	opposition	6745 Jan 05 12:55	16°♎05'11	-0°54'33
direct	6739 Sep 15 04:02	20°♎51'39		direct	6745 Mar 04 09:20	11°♎10'18	
	6739 Dec 09 03:18	0°♎			6745 Jul 04 12:32	0°♎	
evening set	6740 Jan 18 15:13	8°♎19'13		evening set	6745 Jul 08 22:39	1°♎03'11	
max. Earth dist.	6740 Jan 29 07:53	10°♎39'36	6.41188 AU				
				conjunction	6745 Jul 22 12:38	4°♎18'40	-0°22'29
conjunction	6740 Jan 31 10:23	11°♎07'19	0°16'59	minimum elong	6745 Jul 22 12:39	4°♎18'41	0°22'33
minimum elong	6740 Jan 31 10:23	11°♎07'20	0°17'02	max. Earth dist.	6745 Jul 24 15:20	4°♎49'06	5.96318 AU
morning rise	6740 Feb 13 03:42	13°♎54'43		morning rise	6745 Aug 05 05:10	7°♎35'15	
	6740 Feb 18 03:39	15°♎			6745 Sep 06 11:37	15°♎	
	6740 May 18 01:08	0°♎		retrograde	6745 Dec 14 00:05	27°♎52'01	
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	6740 Jul 11 01:01	30°♎		opposition	6746 Feb 11 12:07	22°♎47'32	-0°09'31
opposition	6740 Aug 13 23:02	26°♎14'12	0°04'42	direct	6746 Apr 10 18:02	17°♎50'17	
min. Earth dist.	6740 Aug 15 12:59	26°♎02'05	4.35182 AU	asc. node	6746 Apr 30 10:23	18°♎29'29	
desc. node	6740 Sep 27 04:37	21°♎43'59			6746 Jul 14 10:54	0°♎	
direct	6740 Oct 15 04:58	21°♎14'15		evening set	6746 Aug 15 08:41	7°♎08'45	
	6741 Jan 04 21:12	0°♎					
evening set	6741 Feb 17 15:45	9°♎12'33		conjunction	6746 Aug 29 01:29	10°♎19'23	0°09'42
max. Earth dist.	6741 Feb 28 04:53	11°♎35'21	6.27920 AU	minimum elong	6746 Aug 29 01:28	10°♎19'23	0°09'41
				behind sun begin	6746 Aug 28 18:38	10°♎15'26	
conjunction	6741 Mar 02 09:30	12°♎05'10	-0°11'26	behind sun end	6746 Aug 29 08:18	10°♎23'20	
minimum elong	6741 Mar 02 09:29	12°♎05'09	0°11'26	max. Earth dist.	6746 Aug 31 12:19	10°♎53'33	6.09240 AU
behind sun begin	6741 Mar 02 03:38	12°♎01'52		morning rise	6746 Sep 11 19:05	13°♎30'10	
behind sun end	6741 Mar 02 15:20	12°♎08'27			6746 Dec 07 05:06	0°♎	
morning rise	6741 Mar 15 02:17	14°♎57'38		retrograde	6747 Jan 17 10:19	2°♎38'30	
	6741 Jun 02 00:05	0°♎			6747 Feb 27 11:30	30°♎	
retrograde	6741 Jul 17 19:55	3°♎07'07		min. Earth dist.	6747 Mar 16 17:37	27°♎46'19	4.17299 AU
	6741 Sep 02 09:23	30°♎		opposition	6747 Mar 18 03:33	27°♎34'51	0°36'22




























































































































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	6747 Jul 28 03:50	0° \mathbb{L}		min. Earth dist.	6752 Aug 19 23:52	0° \mathbb{H} 20'00	4.33359 AU
evening set	6747 Sep 20 00:01	11° \mathbb{L} 06'28			6752 Aug 22 14:39	30° \mathbb{R} \approx	
				direct	6752 Oct 19 12:34	25° \approx 32'58	
conjunction	6747 Oct 03 14:12	14° \mathbb{L} 08'42	0°36'57		6752 Dec 14 13:40	0° \mathbb{H}	
minimum elong	6747 Oct 03 14:10	14° \mathbb{L} 08'41	0°36'58	evening set	6753 Feb 21 22:12	13° \mathbb{H} 36'45	
max. Earth dist.	6747 Oct 05 09:44	14° \mathbb{L} 33'03	6.25570 AU	max. Earth dist.	6753 Mar 04 09:49	15° \mathbb{H} 59'27	6.25686 AU
morning rise	6747 Oct 17 03:54	17° \mathbb{L} 10'21					
	6747 Dec 21 01:00	0° \mathbb{M}		conjunction	6753 Mar 06 15:55	16° \mathbb{H} 30'15	-0°15'16
retrograde	6748 Feb 18 07:46	5° \mathbb{M} 06'56		minimum elong	6753 Mar 06 15:54	16° \mathbb{H} 30'15	0°15'16
opposition	6748 Apr 18 11:01	0° \mathbb{M} 06'07	1°07'14	behind sun begin	6753 Mar 06 13:06	16° \mathbb{H} 28'40	
min. Earth dist.	6748 Apr 17 14:20	0° \mathbb{M} 13'00	4.33194 AU	behind sun end	6753 Mar 06 18:42	16° \mathbb{H} 31'50	
	6748 Apr 19 05:24	30° \mathbb{R} \mathbb{L}		morning rise	6753 Mar 19 09:01	19° \mathbb{H} 23'45	
direct	6748 Jun 18 02:50	25° \mathbb{L} 04'46			6753 May 08 19:00	0° \mathbb{Y}	
	6748 Aug 16 07:27	0° \mathbb{M}		retrograde	6753 Jul 22 12:59	7° \mathbb{Y} 43'20	
evening set	6748 Oct 22 10:12	12° \mathbb{M} 53'48		opposition	6753 Sep 21 05:10	2° \mathbb{Y} 49'33	-0°42'40
	6748 Nov 01 03:00	15° \mathbb{M}		min. Earth dist.	6753 Sep 22 15:01	2° \mathbb{Y} 38'38	4.17367 AU
					6753 Oct 14 12:55	30° \mathbb{R} \mathbb{H}	
conjunction	6748 Nov 04 19:03	15° \mathbb{M} 47'54	0°51'30	direct	6753 Nov 21 04:36	27° \mathbb{H} 51'57	
minimum elong	6748 Nov 04 19:02	15° \mathbb{M} 47'53	0°51'32		6753 Dec 28 10:54	0° \mathbb{Y}	
max. Earth dist.	6748 Nov 05 12:29	15° \mathbb{M} 57'23	6.39798 AU	evening set	6754 Mar 26 20:35	16° \mathbb{Y} 42'54	
morning rise	6748 Nov 18 01:56	18° \mathbb{M} 40'53		max. Earth dist.	6754 Apr 07 02:04	19° \mathbb{Y} 21'30	6.09233 AU
	6749 Jan 14 21:40	0° \mathbb{J}					
retrograde	6749 Mar 19 15:25	5° \mathbb{J} 44'16		conjunction	6754 Apr 08 16:05	19° \mathbb{Y} 43'57	-0°40'24
opposition	6749 May 19 03:37	0° \mathbb{J} 47'01	1°17'04	minimum elong	6754 Apr 08 16:03	19° \mathbb{Y} 43'57	0°40'26
min. Earth dist.	6749 May 19 01:41	0° \mathbb{J} 47'39	4.44792 AU	morning rise	6754 Apr 21 12:13	22° \mathbb{Y} 45'41	
	6749 May 25 04:22	30° \mathbb{R} \mathbb{M}			6754 May 23 09:38	0° \mathbb{B}	
direct	6749 Jul 20 00:12	25° \mathbb{M} 45'04		retrograde	6754 Aug 28 08:42	12° \mathbb{B} 20'35	
	6749 Sep 13 12:50	0° \mathbb{J}		opposition	6754 Oct 27 12:17	7° \mathbb{B} 24'23	-1°12'55
evening set	6749 Nov 22 23:21	13° \mathbb{J} 07'10		min. Earth dist.	6754 Oct 28 05:53	7° \mathbb{B} 18'36	4.01810 AU
				direct	6754 Dec 26 01:33	2° \mathbb{B} 29'06	
conjunction	6749 Dec 06 02:08	15° \mathbb{J} 55'43	0°51'08		6755 Mar 31 13:51	15° \mathbb{B}	
minimum elong	6749 Dec 06 02:08	15° \mathbb{J} 55'44	0°51'12	evening set	6755 May 01 01:26	22° \mathbb{B} 06'03	
max. Earth dist.	6749 Dec 05 13:02	15° \mathbb{J} 48'42	6.47909 AU				
morning rise	6749 Dec 19 02:43	18° \mathbb{J} 43'08		conjunction	6755 May 14 02:04	25° \mathbb{B} 15'19	-0°52'22
	6750 Feb 15 16:55	0° \mathbb{B}		minimum elong	6755 May 14 02:04	25° \mathbb{B} 15'19	0°52'24
retrograde	6750 Apr 18 09:43	5° \mathbb{B} 21'05		max. Earth dist.	6755 May 13 17:58	25° \mathbb{B} 10'25	5.96021 AU
opposition	6750 Jun 18 04:32	0° \mathbb{B} 26'44	1°06'16	morning rise	6755 May 27 04:48	28° \mathbb{B} 25'56	
min. Earth dist.	6750 Jun 18 22:14	0° \mathbb{B} 21'02	4.49030 AU		6755 Jun 02 17:29	0° \mathbb{I}	
	6750 Jun 21 15:43	30° \mathbb{R} \mathbb{J}		retrograde	6755 Oct 05 20:59	19° \mathbb{I} 02'03	
direct	6750 Aug 19 19:27	25° \mathbb{J} 24'50		opposition	6755 Dec 04 14:17	14° \mathbb{I} 02'25	-1°16'44
	6750 Oct 17 00:00	0° \mathbb{B}		min. Earth dist.	6755 Dec 04 06:20	14° \mathbb{I} 05'05	3.92425 AU
evening set	6750 Dec 23 10:13	12° \mathbb{B} 40'09		direct	6756 Jan 31 20:31	9° \mathbb{I} 08'21	
max. Earth dist.	6751 Jan 03 19:46	15° \mathbb{B} 07'08	6.47947 AU	evening set	6756 Jun 06 06:31	29° \mathbb{I} 09'40	
					6756 Jun 09 17:23	0° \mathbb{E}	
conjunction	6751 Jan 05 08:19	15° \mathbb{B} 26'51	0°37'16				
minimum elong	6751 Jan 05 08:20	15° \mathbb{B} 26'51	0°37'19	conjunction	6756 Jun 19 14:43	2° \mathbb{E} 24'46	-0°44'08
morning rise	6751 Jan 18 03:56	18° \mathbb{B} 12'29		minimum elong	6756 Jun 19 14:45	2° \mathbb{E} 24'47	0°44'11
	6751 Mar 20 15:41	0° \approx		max. Earth dist.	6756 Jun 20 19:03	2° \mathbb{E} 42'03	5.91393 AU
retrograde	6751 May 18 14:20	4° \approx 55'12		morning rise	6756 Jul 03 01:50	5° \mathbb{E} 41'22	
opposition	6751 Jul 18 13:56	0° \approx 02'31	0°38'22	retrograde	6756 Nov 12 09:43	26° \mathbb{E} 31'56	
	6751 Jul 18 21:48	30° \mathbb{R} \mathbb{B}		opposition	6757 Jan 10 20:51	21° \mathbb{E} 28'53	-0°49'02
min. Earth dist.	6751 Jul 19 21:54	29° \mathbb{B} 52'19	4.44906 AU	min. Earth dist.	6757 Jan 09 15:41	21° \mathbb{E} 38'47	3.93189 AU
direct	6751 Sep 19 06:51	25° \mathbb{B} 01'20		direct	6757 Mar 09 17:32	16° \mathbb{E} 33'44	
	6751 Nov 18 19:46	0° \approx			6757 Jun 16 16:41	0° \mathbb{Q}	
evening set	6752 Jan 22 18:02	12° \approx 31'09		evening set	6757 Jul 14 07:28	6° \mathbb{Q} 24'44	
max. Earth dist.	6752 Feb 02 08:51	14° \approx 50'58	6.39902 AU				
	6752 Feb 03 01:15	15° \approx		conjunction	6757 Jul 27 22:22	9° \mathbb{Q} 40'05	-0°18'05
				minimum elong	6757 Jul 27 22:23	9° \mathbb{Q} 40'06	0°18'08
conjunction	6752 Feb 04 12:47	15° \approx 19'35	0°13'20	max. Earth dist.	6757 Jul 30 05:46	10° \mathbb{Q} 13'14	5.97431 AU
minimum elong	6752 Feb 04 12:48	15° \approx 19'35	0°13'23	morning rise	6757 Aug 10 15:20	12° \mathbb{Q} 56'19	
behind sun begin	6752 Feb 04 08:12	15° \approx 17'04			6757 Aug 19 09:23	15° \mathbb{Q}	
behind sun end	6752 Feb 04 17:24	15° \approx 22'07			6757 Nov 04 13:16	0° \mathbb{M}	
morning rise	6752 Feb 17 05:51	18° \approx 07'23		retrograde	6757 Dec 19 02:16	3° \mathbb{M} 05'36	
	6752 Apr 17 11:13	0° \mathbb{H}			6758 Feb 01 14:55	30° \mathbb{R} \mathbb{Q}	
retrograde	6752 Jun 18 10:34	5° \mathbb{H} 25'13		min. Earth dist.	6758 Feb 15 00:21	28° \mathbb{Q} 13'52	4.03770 AU
desc. node	6752 Aug 09 02:14	1° \mathbb{H} 42'46		opposition	6758 Feb 16 14:03	28° \mathbb{Q} 01'02	-0°02'33

asc. node	6758 Mar 09 11:29	25°Ω20'06	direct	6763 Sep 23 15:17	29°Σ20'19	
direct	6758 Apr 15 22:34	23°Ω03'25		6763 Oct 14 17:35	0°≈	
	6758 Jun 23 13:16	0°Π		6764 Jan 18 07:20	15°≈	
evening set	6758 Aug 20 13:31	12°Π15'38	evening set	6764 Jan 27 00:38	16°≈53'50	
			max. Earth dist.	6764 Feb 06 13:47	19°≈13'17	6.38151 AU
conjunction	6758 Sep 03 06:06	15°Π25'11 0°14'07				
minimum elong	6758 Sep 03 06:05	15°Π25'10 0°14'06	conjunction	6764 Feb 08 19:13	19°≈42'50 0°09'27	
behind sun begin	6758 Sep 03 02:11	15°Π22'56	minimum elong	6764 Feb 08 19:14	19°≈42'50 0°09'29	
behind sun end	6758 Sep 03 09:58	15°Π27'24	behind sun begin	6764 Feb 08 12:35	19°≈39'11	
max. Earth dist.	6758 Sep 05 16:09	15°Π58'42 6.11471 AU	behind sun end	6764 Feb 09 01:53	19°≈46'30	
morning rise	6758 Sep 16 23:32	18°Π34'47	morning rise	6764 Feb 21 12:06	22°≈31'15	
	6758 Nov 10 02:53	0°Ω		6764 Mar 27 23:52	0°Χ	
retrograde	6759 Jan 22 00:51	7°Ω32'07	desc. node	6764 Jun 18 17:10	9°Χ54'47	
min. Earth dist.	6759 Mar 21 11:19	2°Ω39'57 4.19738 AU	retrograde	6764 Jun 23 00:14	9°Χ56'31	
opposition	6759 Mar 22 20:47	2°Ω28'40 0°41'55	opposition	6764 Aug 22 22:14	5°Χ03'53 -0°06'59	
	6759 Apr 11 03:43	30°ΡΠ	min. Earth dist.	6764 Aug 24 13:16	4°Χ51'24 4.31187 AU	
direct	6759 May 21 08:42	27°Π28'37	direct	6764 Oct 23 22:33	0°Χ04'22	
	6759 Jun 30 22:01	0°Ω	evening set	6765 Feb 26 10:04	18°Χ14'39	
evening set	6759 Sep 24 20:48	15°Ω52'40	max. Earth dist.	6765 Mar 08 23:25	20°Χ39'08 6.23260 AU	
conjunction	6759 Oct 08 10:21	18°Ω53'35 0°39'53	conjunction	6765 Mar 11 03:51	21°Χ09'09 -0°19'14	
minimum elong	6759 Oct 08 10:20	18°Ω53'34 0°39'55	minimum elong	6765 Mar 11 03:50	21°Χ09'08 0°19'13	
max. Earth dist.	6759 Oct 10 03:04	19°Ω16'15 6.27996 AU	morning rise	6765 Mar 23 21:10	24°Χ03'43	
morning rise	6759 Oct 21 23:02	21°Ω53'46		6765 Apr 19 16:02	0°Υ	
	6759 Nov 29 12:37	0°Π	retrograde	6765 Jul 27 14:50	12°Υ34'03	
retrograde	6760 Feb 22 16:59	9°Π40'41	opposition	6765 Sep 26 04:05	7°Υ40'02 -0°47'59	
opposition	6760 Apr 22 21:04	4°Π40'20 1°09'55	min. Earth dist.	6765 Sep 27 13:18	7°Υ29'17 4.14858 AU	
min. Earth dist.	6760 Apr 22 03:09	4°Π46'17 4.35386 AU	direct	6765 Nov 25 23:42	2°Υ42'44	
	6760 Jun 07 18:35	30°ΡΩ	evening set	6766 Mar 31 16:11	21°Υ41'21	
direct	6760 Jun 22 18:22	29°Ω38'50	max. Earth dist.	6766 Apr 12 01:00	24°Υ22'46 6.06869 AU	
	6760 Jul 07 19:57	0°Π				
	6760 Oct 15 20:44	15°Π	conjunction	6766 Apr 13 12:15	24°Υ43'40 -0°43'06	
evening set	6760 Oct 26 23:07	17°Π22'08	minimum elong	6766 Apr 13 12:14	24°Υ43'40 0°43'09	
			morning rise	6766 Apr 26 09:14	27°Υ46'48	
conjunction	6760 Nov 09 06:59	20°Π15'08 0°52'19		6766 May 05 20:25	0°Ϣ	
minimum elong	6760 Nov 09 06:59	20°Π15'08 0°52'22		6766 Jul 24 01:11	15°Ϣ	
max. Earth dist.	6760 Nov 09 19:25	20°Π21'52 6.41571 AU	retrograde	6766 Sep 02 16:57	17°Ϣ32'36	
morning rise	6760 Nov 22 13:00	23°Π07'03		6766 Oct 13 16:52	15°ΡϢ	
	6760 Dec 25 20:11	0°ϣ	opposition	6766 Nov 01 19:23	12°Ϣ35'59 -1°15'20	
retrograde	6761 Mar 23 19:22	10°ϣ04'27	min. Earth dist.	6766 Nov 02 08:43	12°Ϣ31'36 3.99853 AU	
opposition	6761 May 23 09:13	5°ϣ07'37 1°16'41	direct	6766 Dec 31 02:05	7°Ϣ41'01	
min. Earth dist.	6761 May 23 10:12	5°ϣ07'17 4.46051 AU		6767 Mar 11 04:53	15°Ϣ	
direct	6761 Jul 24 09:22	0°ϣ05'33	evening set	6767 May 06 05:19	27°Ϣ23'43	
evening set	6761 Nov 27 06:46	17°ϣ24'52		6767 May 16 22:54	0°Π	
conjunction	6761 Dec 10 08:55	20°ϣ12'53 0°49'55	conjunction	6767 May 19 06:53	0°Π34'05 -0°52'29	
minimum elong	6761 Dec 10 08:55	20°ϣ12'54 0°49'59	minimum elong	6767 May 19 06:53	0°Π34'05 0°52'32	
max. Earth dist.	6761 Dec 09 17:09	20°ϣ04'26 6.48570 AU	max. Earth dist.	6767 May 19 04:10	0°Π32'25 5.94675 AU	
morning rise	6761 Dec 23 08:31	22°ϣ59'43	morning rise	6767 Jun 01 10:47	3°Π45'51	
	6762 Jan 26 15:30	0°ϣ	retrograde	6767 Oct 11 09:01	24°Π27'44	
retrograde	6762 Apr 22 12:31	9°ϣ36'02	opposition	6767 Dec 10 01:16	19°Π27'33 -1°14'36	
opposition	6762 Jun 22 09:18	4°ϣ42'00 1°03'14	min. Earth dist.	6767 Dec 09 13:43	19°Π31'25 3.91870 AU	
min. Earth dist.	6762 Jun 23 05:05	4°ϣ35'39 4.49064 AU	direct	6768 Feb 06 05:33	14°Π33'28	
	6762 Aug 09 04:38	30°Ρϣ		6768 May 23 09:39	0°ϣ	
direct	6762 Aug 24 01:26	29°ϣ40'09	evening set	6768 Jun 11 15:26	4°ϣ35'20	
	6762 Sep 08 00:21	0°ϣ				
evening set	6762 Dec 27 15:32	16°ϣ55'54	conjunction	6768 Jun 25 00:52	7°ϣ50'50 -0°41'19	
max. Earth dist.	6763 Jan 07 20:12	19°ϣ20'35 6.47339 AU	minimum elong	6768 Jun 25 00:54	7°ϣ50'51 0°41'22	
			max. Earth dist.	6768 Jun 26 11:55	8°ϣ12'10 5.91707 AU	
conjunction	6763 Jan 09 12:54	19°ϣ42'34 0°34'23	morning rise	6768 Jul 08 12:54	11°ϣ07'43	
minimum elong	6763 Jan 09 12:55	19°ϣ42'35 0°34'27		6768 Oct 14 03:39	0°Ω	
morning rise	6763 Jan 22 08:11	22°ϣ28'18	retrograde	6768 Nov 17 18:13	1°Ω54'54	
	6763 Feb 28 01:25	0°≈		6768 Dec 22 03:48	30°Ρϣ	
retrograde	6763 May 22 23:05	9°≈14'01	min. Earth dist.	6769 Jan 14 21:18	27°ϣ02'02 3.94347 AU	
opposition	6763 Jul 22 22:00	4°≈21'25 0°33'20	opposition	6769 Jan 16 04:24	26°ϣ51'29 -0°43'07	
min. Earth dist.	6763 Jul 24 08:35	4°≈10'23 4.43686 AU	direct	6769 Mar 15 01:35	21°ϣ56'04	
	6763 Sep 02 13:30	30°Ρϣ		6769 May 27 14:24	0°Ω	

evening set	6769 Jul 19 15:24	11°♏41'59		morning rise	6775 Jan 26 12:00	26°♄44'09	
					6775 Feb 10 20:31	0°♊	
conjunction	6769 Aug 02 06:41	14°♏56'40 -0°13'37		retrograde	6775 May 27 06:57	13°♊34'32	
minimum elong	6769 Aug 02 06:42	14°♏56'40 0°13'39		opposition	6775 Jul 27 06:32	8°♊42'05	0°28'10
behind sun begin	6769 Aug 02 02:16	14°♏54'03		min. Earth dist.	6775 Jul 28 17:49	8°♊30'50	4.42056 AU
behind sun end	6769 Aug 02 11:07	14°♏59'17		direct	6775 Sep 27 21:30	3°♊41'14	
	6769 Aug 02 12:19	15°♏			6776 Jan 01 12:46	15°♊	
max. Earth dist.	6769 Aug 04 15:35	15°♏30'32 5.99283 AU		evening set	6776 Jan 31 08:24	21°♊19'49	
morning rise	6769 Aug 16 00:10	18°♏12'10		max. Earth dist.	6776 Feb 10 20:01	23°♊39'09	6.36099 AU
	6769 Oct 09 02:29	0°♐					
retrograde	6769 Dec 23 22:55	8°♐11'14		conjunction	6776 Feb 13 02:40	24°♊09'31	0°05'31
asc. node	6770 Jan 17 11:36	7°♐11'38		minimum elong	6776 Feb 13 02:40	24°♊09'31	0°05'32
min. Earth dist.	6770 Feb 19 22:24	3°♐19'47 4.06100 AU		behind sun begin	6776 Feb 12 19:00	24°♊05'17	
opposition	6770 Feb 21 13:01	3°♐06'38 0°04'14		behind sun end	6776 Feb 13 10:20	24°♊13'45	
	6770 Mar 18 09:16	30°♑♏		morning rise	6776 Feb 25 19:35	26°♊58'45	
direct	6770 Apr 21 00:18	28°♏08'39			6776 Mar 10 15:08	0°♐	
	6770 May 24 21:26	0°♐		desc. node	6776 Apr 28 13:36	9°♐22'58	
evening set	6770 Aug 25 14:46	17°♐13'04		retrograde	6776 Jun 27 18:35	14°♐32'37	
				opposition	6776 Aug 27 14:27	9°♐39'55	-0°12'58
conjunction	6770 Sep 08 07:08	20°♐21'19 0°18'19		min. Earth dist.	6776 Aug 29 05:53	9°♐27'17	4.28836 AU
minimum elong	6770 Sep 08 07:07	20°♐21'18 0°18'18		direct	6776 Oct 28 11:59	4°♐40'41	
max. Earth dist.	6770 Sep 10 15:23	20°♐53'37 6.14060 AU		evening set	6777 Mar 02 23:28	22°♐57'56	
morning rise	6770 Sep 22 00:02	23°♐29'29		max. Earth dist.	6777 Mar 13 14:53	25°♐24'23	6.20812 AU
	6770 Oct 21 13:18	0°♑					
retrograde	6771 Jan 26 14:26	12°♑15'23		conjunction	6777 Mar 15 17:31	25°♐53'31	-0°23'06
min. Earth dist.	6771 Mar 26 03:48	7°♑22'41 4.22318 AU		minimum elong	6777 Mar 15 17:30	25°♐53'31	0°23'05
opposition	6771 Mar 27 10:37	7°♑12'19 0°46'57		morning rise	6777 Mar 28 11:09	28°♐49'15	
direct	6771 May 26 04:24	2°♑12'01			6777 Apr 02 15:05	0°♑	
evening set	6771 Sep 29 13:40	20°♑28'48		retrograde	6777 Aug 01 16:21	17°♑30'22	
				opposition	6777 Oct 01 04:53	12°♑36'03	-0°53'01
conjunction	6771 Oct 13 02:31	23°♑28'25 0°42'28		min. Earth dist.	6777 Oct 02 10:55	12°♑26'20	4.12522 AU
minimum elong	6771 Oct 13 02:29	23°♑28'24 0°42'29		direct	6777 Nov 30 18:09	7°♑39'10	
max. Earth dist.	6771 Oct 14 15:49	23°♑49'04 6.30350 AU		evening set	6778 Apr 05 13:25	26°♑44'36	
morning rise	6771 Oct 26 14:19	26°♑27'15		max. Earth dist.	6778 Apr 17 03:00	29°♑29'35	6.04852 AU
	6771 Nov 11 23:35	0°♒					
retrograde	6772 Feb 26 21:12	14°♒05'20		conjunction	6778 Apr 18 09:57	29°♑48'02	-0°45'30
min. Earth dist.	6772 Apr 26 11:54	9°♒10'44 4.37357 AU		minimum elong	6778 Apr 18 09:56	29°♑48'02	0°45'32
opposition	6772 Apr 27 03:40	9°♒05'31 1°12'06			6778 Apr 19 06:01	0°♑	
direct	6772 Jun 27 04:25	4°♒03'53		morning rise	6778 May 01 07:43	2°♑52'23	
	6772 Sep 28 22:58	15°♒			6778 Jun 25 21:17	15°♑	
evening set	6772 Oct 31 08:51	21°♒42'35		retrograde	6778 Sep 08 01:59	22°♑47'31	
				opposition	6778 Nov 07 03:04	17°♑50'22	-1°17'08
conjunction	6772 Nov 13 15:54	24°♒34'42 0°52'50		min. Earth dist.	6778 Nov 07 13:06	17°♑47'04	3.98352 AU
minimum elong	6772 Nov 13 15:54	24°♒34'41 0°52'53			6778 Nov 30 03:06	15°♑♑	
max. Earth dist.	6772 Nov 13 23:55	24°♒39'01 6.43023 AU		direct	6779 Jan 05 06:19	12°♑55'37	
morning rise	6772 Nov 26 20:56	27°♒25'41			6779 Feb 09 22:30	15°♑	
	6772 Dec 08 23:32	0°♑♑			6779 Apr 30 03:06	0°♒	
retrograde	6773 Mar 27 22:33	14°♑♑18'32		evening set	6779 May 11 09:21	2°♒42'06	
opposition	6773 May 27 12:48	9°♑♑22'15 1°15'56					
min. Earth dist.	6773 May 27 17:14	9°♑♑20'49 4.46903 AU		conjunction	6779 May 24 12:02	5°♒53'20	-0°52'09
direct	6773 Jul 28 16:24	4°♑♑20'14		minimum elong	6779 May 24 12:02	5°♒53'20	0°52'13
evening set	6773 Dec 01 12:09	21°♑♑38'09		max. Earth dist.	6779 May 24 15:49	5°♒55'39	5.93840 AU
				morning rise	6779 Jun 06 16:55	9°♒05'58	
conjunction	6773 Dec 14 13:31	24°♑♑25'50 0°48'28		retrograde	6779 Oct 16 20:03	29°♒50'55	
minimum elong	6773 Dec 14 13:32	24°♑♑25'51 0°48'31		opposition	6779 Dec 15 10:26	24°♒50'13	-1°11'48
max. Earth dist.	6773 Dec 13 16:30	24°♑♑14'34 6.48754 AU		min. Earth dist.	6779 Dec 14 19:51	24°♒55'07	3.91812 AU
morning rise	6773 Dec 27 12:35	27°♑♑12'23		direct	6780 Feb 11 12:45	19°♒56'04	
	6774 Jan 09 18:35	0°♑♑			6780 May 04 13:39	0°♑♑	
retrograde	6774 Apr 26 16:49	13°♑♑48'54		evening set	6780 Jun 16 22:43	9°♑♑56'42	
opposition	6774 Jun 26 13:39	8°♑♑55'11 0°59'58					
min. Earth dist.	6774 Jun 27 12:07	8°♑♑47'59 4.48592 AU		conjunction	6780 Jun 30 08:57	13°♑♑12'18	-0°38'11
direct	6774 Aug 28 06:33	3°♑♑53'24		minimum elong	6780 Jun 30 08:59	13°♑♑12'19	0°38'14
evening set	6774 Dec 31 20:13	21°♑♑11'14		max. Earth dist.	6780 Jul 01 22:51	13°♑♑35'19	5.92395 AU
max. Earth dist.	6775 Jan 11 23:08	23°♑♑35'19 6.46252 AU		morning rise	6780 Jul 13 22:07	16°♑♑29'18	
					6780 Sep 13 14:58	0°♑	
conjunction	6775 Jan 13 17:18	23°♑♑58'10 0°31'22		retrograde	6780 Nov 22 20:53	7°♑♑11'32	
minimum elong	6775 Jan 13 17:19	23°♑♑58'11 0°31'26		min. Earth dist.	6781 Jan 19 23:08	2°♑♑19'11	3.95703 AU

opposition	6781 Jan 21 08:44	2°♏07'46	-0°36'57	max. Earth dist.	6787 Jan 16 01:38	27°♌52'26	6.45141 AU
	6781 Feb 06 14:29	30°♏♌					
direct	6781 Mar 20 06:20	27°♌12'00		conjunction	6787 Jan 17 23:08	28°♌17'10	0°28'06
	6781 Apr 30 16:42	0°♏		minimum elong	6787 Jan 17 23:09	28°♌17'11	0°28'10
	6781 Jul 16 20:41	15°♏			6787 Jan 25 20:24	0°♌	
evening set	6781 Jul 24 20:32	16°♏52'32		morning rise	6787 Jan 30 17:39	1°♌03'29	
					6787 Apr 16 18:37	15°♌	
conjunction	6781 Aug 07 12:17	20°♏06'29	-0°09'07	retrograde	6787 May 31 18:33	17°♌58'34	
minimum elong	6781 Aug 07 12:17	20°♏06'29	0°09'09		6787 Jul 16 09:52	15°♏♌	
behind sun begin	6781 Aug 07 05:13	20°♏02'19		opposition	6787 Jul 31 17:15	13°♌06'12	0°22'43
behind sun end	6781 Aug 07 19:21	20°♏10'40		min. Earth dist.	6787 Aug 02 05:30	12°♌54'38	4.40530 AU
max. Earth dist.	6781 Aug 09 22:01	20°♏40'42	6.01172 AU	direct	6787 Oct 02 06:31	8°♌05'34	
morning rise	6781 Aug 21 05:53	23°♏21'08			6787 Dec 13 06:27	15°♌	
	6781 Sep 19 10:51	0°♏		evening set	6788 Feb 04 17:17	25°♌48'37	
asc. node	6781 Nov 27 15:38	11°♏36'55		max. Earth dist.	6788 Feb 15 06:15	28°♌09'14	6.34296 AU
retrograde	6781 Dec 28 19:09	13°♏10'18					
min. Earth dist.	6782 Feb 24 19:57	8°♏18'24	4.08295 AU	conjunction	6788 Feb 17 11:30	28°♌38'58	0°01'27
opposition	6782 Feb 26 09:07	8°♏05'46	0°10'52	minimum elong	6788 Feb 17 11:30	28°♌38'58	0°01'29
direct	6782 Apr 26 01:28	3°♏07'22		behind sun begin	6788 Feb 17 03:31	28°♌34'32	
evening set	6782 Aug 30 13:53	22°♏04'52		behind sun end	6788 Feb 17 19:29	28°♌43'24	
					6788 Feb 23 12:36	0°♏	
conjunction	6782 Sep 13 06:02	25°♏11'59	0°22'19	morning rise	6788 Mar 01 04:12	1°♏28'52	
minimum elong	6782 Sep 13 06:00	25°♏11'58	0°22'20	desc. node	6788 Mar 07 23:23	2°♏59'02	
max. Earth dist.	6782 Sep 15 13:10	25°♏43'27	6.16367 AU	retrograde	6788 Jul 02 11:47	19°♏10'24	
morning rise	6782 Sep 26 22:23	28°♏18'52		opposition	6788 Sep 01 07:40	14°♏17'36	-0°18'57
	6782 Oct 04 10:11	0°♏		min. Earth dist.	6788 Sep 02 21:42	14°♏05'25	4.26896 AU
retrograde	6783 Jan 31 00:19	16°♏54'30		direct	6788 Nov 02 00:52	9°♏18'47	
opposition	6783 Mar 31 22:26	11°♏51'49	0°51'38	evening set	6789 Mar 07 13:31	27°♏41'28	
min. Earth dist.	6783 Mar 30 16:44	12°♏01'48	4.24539 AU		6789 Mar 17 14:02	0°♏	
direct	6783 May 30 19:32	6°♏51'15		max. Earth dist.	6789 Mar 18 06:49	0°♏09'42	6.18894 AU
evening set	6783 Oct 04 05:34	25°♏02'13					
				conjunction	6789 Mar 20 07:30	0°♏37'51	-0°26'48
conjunction	6783 Oct 17 17:36	28°♏00'41	0°44'46	minimum elong	6789 Mar 20 07:29	0°♏37'50	0°26'48
minimum elong	6783 Oct 17 17:35	28°♏00'41	0°44'48	morning rise	6789 Apr 02 01:31	3°♏34'32	
max. Earth dist.	6783 Oct 19 01:50	28°♏18'29	6.32311 AU	retrograde	6789 Aug 06 18:08	22°♏24'30	
	6783 Oct 26 18:08	0°♏		opposition	6789 Oct 06 05:02	17°♏29'52	-0°57'37
morning rise	6783 Oct 31 04:35	0°♏58'21		min. Earth dist.	6789 Oct 07 08:52	17°♏20'49	4.10778 AU
	6784 Jan 13 18:22	15°♏		direct	6789 Dec 05 14:32	12°♏33'19	
retrograde	6784 Mar 02 04:01	18°♏29'04			6790 Apr 03 01:46	0°♏	
	6784 Apr 19 20:14	15°♏♏		evening set	6790 Apr 10 09:07	1°♏43'24	
opposition	6784 May 01 10:20	13°♏29'45	1°13'53	max. Earth dist.	6790 Apr 22 04:32	4°♏32'19	6.03452 AU
min. Earth dist.	6784 Apr 30 22:15	13°♏33'44	4.38924 AU				
direct	6784 Jul 01 15:56	8°♏27'58		conjunction	6790 Apr 23 06:21	4°♏47'45	-0°47'30
	6784 Sep 09 10:39	15°♏		minimum elong	6790 Apr 23 06:20	4°♏47'44	0°47'32
evening set	6784 Nov 04 18:38	26°♏03'12		morning rise	6790 May 06 04:43	7°♏53'01	
					6790 Jun 06 02:57	15°♏	
conjunction	6784 Nov 18 00:59	28°♏54'36	0°53'04	retrograde	6790 Sep 13 07:53	27°♏54'54	
minimum elong	6784 Nov 18 00:58	28°♏54'36	0°53'07	opposition	6790 Nov 12 07:45	22°♏57'22	-1°18'13
max. Earth dist.	6784 Nov 18 05:09	28°♏56'51	6.44076 AU	min. Earth dist.	6790 Nov 12 14:42	22°♏55'04	3.97457 AU
	6784 Nov 23 02:10	0°♏		direct	6791 Jan 10 07:03	18°♏02'51	
morning rise	6784 Dec 01 05:07	1°♏44'51			6791 Apr 12 17:26	0°♏	
retrograde	6785 Apr 01 01:34	18°♏34'20		evening set	6791 May 16 10:02	7°♏51'02	
opposition	6785 May 31 17:15	13°♏38'27	1°14'48				
min. Earth dist.	6785 May 31 23:41	13°♏36'22	4.47414 AU	conjunction	6791 May 29 13:26	11°♏02'50	-0°51'24
direct	6785 Aug 01 22:15	8°♏36'25		minimum elong	6791 May 29 13:27	11°♏02'50	0°51'28
evening set	6785 Dec 05 18:48	25°♏53'51		max. Earth dist.	6791 May 29 20:30	11°♏07'07	5.93518 AU
				morning rise	6791 Jun 11 19:30	14°♏16'07	
conjunction	6785 Dec 18 19:32	28°♏41'19	0°46'44		6791 Aug 25 02:32	0°♏	
minimum elong	6785 Dec 18 19:33	28°♏41'20	0°46'48	retrograde	6791 Oct 21 23:30	5°♏02'11	
max. Earth dist.	6785 Dec 17 19:46	28°♏28'33	6.48694 AU	opposition	6791 Dec 20 14:32	0°♏01'02	-1°08'30
	6785 Dec 24 22:02	0°♏		min. Earth dist.	6791 Dec 19 20:30	0°♏07'06	3.92116 AU
morning rise	6785 Dec 31 17:50	1°♏27'38			6791 Dec 20 17:35	30°♏♏	
retrograde	6786 Apr 30 22:40	18°♏04'53		direct	6792 Feb 16 14:52	25°♏06'46	
opposition	6786 Jun 30 19:34	13°♏11'30	0°56'17		6792 Apr 12 03:24	0°♏	
min. Earth dist.	6786 Jul 01 20:21	13°♏03'34	4.47984 AU	evening set	6792 Jun 22 01:07	15°♏05'18	
direct	6786 Sep 01 13:09	8°♏09'53					
evening set	6787 Jan 05 02:38	25°♏30'00		conjunction	6792 Jul 05 12:20	18°♏20'54	-0°34'52

minimum elong	6792 Jul 05 12:22	18°☾20'55	0°34'56	opposition	6798 Jul 05 01:13	17°☾27'10	0°52'19
max. Earth dist.	6792 Jul 07 05:46	18°☾46'01	5.93298 AU	min. Earth dist.	6798 Jul 06 02:58	17°☾18'55	4.47361 AU
morning rise	6792 Jul 19 02:10	21°☾37'48		direct	6798 Sep 05 18:02	12°☾25'36	
	6792 Aug 24 09:24	0°♌		evening set	6799 Jan 09 07:54	29°☾47'33	
retrograde	6792 Nov 27 20:19	12°♌14'39			6799 Jan 10 06:56	0°♍	
min. Earth dist.	6793 Jan 24 22:02	7°♌22'05	3.97088 AU	max. Earth dist.	6799 Jan 20 06:20	2°♍10'02	6.44091 AU
opposition	6793 Jan 26 07:30	7°♌10'42	-0°30'47				
direct	6793 Mar 25 07:30	2°♌14'38		conjunction	6799 Jan 22 04:02	2°♍34'57	0°24'43
	6793 Jun 29 21:27	15°♌		minimum elong	6799 Jan 22 04:03	2°♍34'57	0°24'45
evening set	6793 Jul 29 20:35	21°♌50'15		morning rise	6799 Feb 03 22:00	5°♍21'28	
					6799 Mar 23 16:27	15°♍	
conjunction	6793 Aug 12 12:45	25°♌03'35	-0°04'46	retrograde	6799 Jun 05 04:16	22°♍20'52	
minimum elong	6793 Aug 12 12:46	25°♌03'35	0°04'49	opposition	6799 Aug 05 02:58	17°♍28'29	0°17'09
behind sun begin	6793 Aug 12 04:35	24°♌58'47		min. Earth dist.	6799 Aug 06 16:12	17°♍16'37	4.39080 AU
behind sun end	6793 Aug 12 20:57	25°♌08'23			6799 Aug 25 10:02	15°♍	
max. Earth dist.	6793 Aug 14 23:30	25°♌38'13	6.02905 AU	direct	6799 Oct 06 14:51	12°♍28'02	
morning rise	6793 Aug 26 06:33	28°♌17'29			6799 Nov 17 12:52	15°♍	
	6793 Sep 02 14:58	0°♎		desc. node	6800 Jan 16 21:20	25°♍14'20	
asc. node	6793 Oct 09 17:40	8°♎05'53			6800 Feb 07 21:58	0°♎	
retrograde	6794 Jan 02 09:53	17°♎57'50		evening set	6800 Feb 09 01:04	0°♎15'02	
min. Earth dist.	6794 Mar 01 11:18	13°♎06'06	4.10202 AU	max. Earth dist.	6800 Feb 19 12:16	2°♎35'18	6.32522 AU
opposition	6794 Mar 03 00:23	12°♎53'31	0°17'04				
direct	6794 Apr 30 18:55	7°♎54'51		conjunction	6800 Feb 21 18:55	3°♎05'56	-0°02'40
evening set	6794 Sep 04 08:44	26°♎46'57		minimum elong	6800 Feb 21 18:56	3°♎05'56	0°02'38
				behind sun begin	6800 Feb 21 10:58	3°♎01'30	
conjunction	6794 Sep 18 00:28	29°♎53'03	0°26'01	behind sun end	6800 Feb 22 02:53	3°♎10'23	
minimum elong	6794 Sep 18 00:27	29°♎53'02	0°26'01	morning rise	6800 Mar 05 11:45	5°♎56'33	
	6794 Sep 18 12:42	0°♏		retrograde	6800 Jul 07 04:51	23°♎45'45	
max. Earth dist.	6794 Sep 20 03:39	0°♏22'09	6.18285 AU	opposition	6800 Sep 05 23:50	18°♎52'41	-0°24'48
morning rise	6794 Oct 01 16:28	2°♏58'54		min. Earth dist.	6800 Sep 07 13:10	18°♎40'41	4.24879 AU
retrograde	6795 Feb 04 09:14	21°♏26'19		direct	6800 Nov 06 13:29	13°♎54'03	
min. Earth dist.	6795 Apr 04 04:35	16°♏33'03	4.26308 AU		6801 Mar 01 16:25	0°♐	
opposition	6795 Apr 05 07:26	16°♏24'02	0°55'49	evening set	6801 Mar 12 02:05	2°♐22'26	
direct	6795 Jun 04 09:00	11°♏23'16		max. Earth dist.	6801 Mar 22 22:43	4°♐53'13	6.16794 AU
evening set	6795 Oct 08 18:32	29°♏30'02					
	6795 Oct 11 01:18	0°♑		conjunction	6801 Mar 24 20:26	5°♐19'47	-0°30'20
conjunction	6795 Oct 22 06:05	2°♑27'40	0°46'44	minimum elong	6801 Mar 24 20:25	5°♐19'46	0°30'21
minimum elong	6795 Oct 22 06:04	2°♑27'39	0°46'46	morning rise	6801 Apr 06 14:41	8°♐17'27	
max. Earth dist.	6795 Oct 23 12:06	2°♑44'10	6.33817 AU	retrograde	6801 Aug 11 18:46	27°♐17'06	
morning rise	6795 Nov 04 16:07	5°♑24'20		opposition	6801 Oct 11 04:35	22°♐22'06	-1°01'52
	6795 Dec 21 17:35	15°♑		min. Earth dist.	6801 Oct 12 06:31	22°♐13'40	4.08761 AU
retrograde	6796 Mar 06 07:18	22°♑49'20		direct	6801 Dec 10 09:26	17°♐25'52	
opposition	6796 May 05 15:10	17°♑50'30	1°15'11		6802 Mar 17 03:23	0°♒	
min. Earth dist.	6796 May 05 04:32	17°♑54'00	4.40088 AU	evening set	6802 Apr 15 04:53	6°♒41'48	
	6796 May 28 15:58	15°♒♌		max. Earth dist.	6802 Apr 27 03:11	9°♒33'07	6.01686 AU
direct	6796 Jul 05 22:56	12°♒48'43					
	6796 Aug 13 17:11	15°♒		conjunction	6802 Apr 28 02:35	9°♒47'10	-0°49'12
	6796 Nov 07 10:34	0°♓		minimum elong	6802 Apr 28 02:34	9°♒47'09	0°49'14
evening set	6796 Nov 09 03:06	0°♓21'39		morning rise	6802 May 11 01:58	12°♒53'38	
					6802 May 19 23:10	15°♒	
conjunction	6796 Nov 22 08:34	3°♓12'27	0°52'58	retrograde	6802 Aug 04 21:54	0°♐	
minimum elong	6796 Nov 22 08:34	3°♓12'28	0°53'01		6802 Sep 18 13:38	3°♐03'51	
max. Earth dist.	6796 Nov 22 08:13	3°♓12'16	6.44829 AU	opposition	6802 Nov 02 18:31	30°♒♒	
morning rise	6796 Dec 05 11:59	6°♓02'07		min. Earth dist.	6802 Nov 17 12:49	28°♒05'47	-1°18'47
retrograde	6797 Apr 05 06:03	22°♓49'08		direct	6802 Nov 17 15:58	28°♒04'44	3.96131 AU
opposition	6797 Jun 04 21:16	17°♓53'38	1°13'14		6803 Jan 15 08:06	23°♒11'21	
min. Earth dist.	6797 Jun 05 06:50	17°♓50'33	4.47722 AU	evening set	6803 Mar 23 07:32	0°♐	
direct	6797 Aug 06 05:16	12°♓51'37			6803 May 21 12:21	13°♐03'09	
	6797 Dec 09 07:50	0°♑		conjunction	6803 Jun 03 16:57	16°♐15'49	-0°50'16
evening set	6797 Dec 10 00:18	0°♑08'46		minimum elong	6803 Jun 03 16:58	16°♐15'50	0°50'19
max. Earth dist.	6797 Dec 21 21:38	2°♑41'39	6.48530 AU	max. Earth dist.	6803 Jun 04 05:53	16°♐23'43	5.92776 AU
				morning rise	6803 Jun 16 24:00	19°♐29'56	
conjunction	6797 Dec 23 00:27	2°♑56'04	0°44'45		6803 Aug 02 00:11	0°♑	
minimum elong	6797 Dec 23 00:28	2°♑56'04	0°44'49	retrograde	6803 Oct 27 07:26	10°♑18'38	
morning rise	6798 Jan 04 22:10	5°♑42'14		opposition	6803 Dec 25 20:45	5°♑17'00	-1°04'38
retrograde	6798 May 05 03:25	22°♑20'26		min. Earth dist.	6803 Dec 25 00:58	5°♑23'40	3.92046 AU

direct	6804 Feb 21 20:15	0°  22'34	conjunction	6809 Dec 27 03:37	7°  06'16	0°42'37
evening set	6804 Jun 27 06:44	20°  20'28	minimum elong	6809 Dec 27 03:38	7°  06'17	0°42'41
			morning rise	6810 Jan 09 00:39	9°  52'03	
conjunction	6804 Jul 10 18:55	23°  36'14 -0°31'13	retrograde	6810 May 09 07:08	26°  29'58	
minimum elong	6804 Jul 10 18:57	23°  36'15 0°31'16	opposition	6810 Jul 09 04:45	21°  36'56	0°48'13
max. Earth dist.	6804 Jul 12 16:03	24°  03'32 5.93897 AU	min. Earth dist.	6810 Jul 10 09:35	21°  32'43	4.47099 AU
morning rise	6804 Jul 24 09:42	26°  53'16	direct	6810 Sep 09 23:26	16°  35'27	
	6804 Aug 06 12:33	0°  ♂		6810 Dec 25 17:21	0°  ♂	
	6804 Oct 24 19:34	15°  ♂	evening set	6811 Jan 13 10:23	3°  ♂58'23	
retrograde	6804 Dec 02 22:23	17°  ♂25'25	max. Earth dist.	6811 Jan 24 05:01	6°  ♂19'07	6.43236 AU
	6805 Jan 10 22:18	15°  ♂♂				
min. Earth dist.	6805 Jan 29 21:53	12°  ♂33'23 3.98297 AU	conjunction	6811 Jan 26 06:03	6°  ♂45'54	0°21'19
opposition	6805 Jan 31 09:24	12°  ♂21'18 -0°24'13	minimum elong	6811 Jan 26 06:03	6°  ♂45'55	0°21'22
direct	6805 Mar 30 09:53	7°  ♂24'56	morning rise	6811 Feb 07 23:44	9°  ♂32'39	
	6805 Jun 09 21:44	15°  ♂		6811 Mar 05 18:57	15°  ♂	
evening set	6805 Aug 04 00:40	26°  ♂56'14	retrograde	6811 Jun 09 11:01	26°  ♂36'15	
			opposition	6811 Aug 09 10:02	21°  ♂43'48	0°11'42
conjunction	6805 Aug 17 16:59	0°  ♂08'52 -0°00'10	min. Earth dist.	6811 Aug 10 23:53	21°  ♂31'43	4.37664 AU
minimum elong	6805 Aug 17 16:59	0°  ♂08'52 0°00'11	direct	6811 Oct 10 19:21	16°  ♂43'29	
behind sun begin	6805 Aug 17 08:40	0°  ♂04'00	desc. node	6811 Nov 28 20:19	20°  ♂08'45	
behind sun end	6805 Aug 18 01:19	0°  ♂13'44		6812 Jan 23 05:54	0°  ♂	
	6805 Aug 17 01:52	0°  ♂	evening set	6812 Feb 13 05:42	4°  ♂34'43	
asc. node	6805 Aug 19 15:40	0°  ♂36'17	max. Earth dist.	6812 Feb 23 17:30	6°  ♂55'52	6.30637 AU
max. Earth dist.	6805 Aug 20 02:54	0°  ♂42'53 6.04598 AU				
morning rise	6805 Aug 31 10:59	3°  ♂22'00	conjunction	6812 Feb 25 23:34	7°  ♂26'19	-0°06'32
retrograde	6806 Jan 07 03:36	22°  ♂53'26	minimum elong	6812 Feb 25 23:34	7°  ♂26'19	0°06'31
min. Earth dist.	6806 Mar 06 06:56	18°  ♂01'32 4.12205 AU	behind sun begin	6812 Feb 25 16:04	7°  ♂22'07	
opposition	6806 Mar 07 19:08	17°  ♂49'15 0°23'23	behind sun end	6812 Feb 26 07:03	7°  ♂30'30	
direct	6806 May 05 17:45	12°  ♂50'16	morning rise	6812 Mar 09 16:15	10°  ♂17'39	
	6806 Sep 02 02:59	0°  ♂	retrograde	6812 Jul 11 19:58	28°  ♂15'23	
evening set	6806 Sep 09 07:09	1°  ♂36'27	opposition	6812 Sep 10 13:34	23°  ♂22'10	-0°30'22
			min. Earth dist.	6812 Sep 12 03:20	23°  ♂10'02	4.22627 AU
conjunction	6806 Sep 22 22:39	4°  ♂41'27 0°29'40	direct	6812 Nov 10 23:41	18°  ♂23'49	
minimum elong	6806 Sep 22 22:38	4°  ♂41'26 0°29'41		6813 Feb 13 04:22	0°  ♂	
max. Earth dist.	6806 Sep 25 01:32	5°  ♂10'14 6.20461 AU	evening set	6813 Mar 16 12:58	6°  ♂59'10	
morning rise	6806 Oct 06 13:50	7°  ♂46'01	max. Earth dist.	6813 Mar 27 09:36	9°  ♂30'51	6.14344 AU
retrograde	6807 Feb 08 19:26	26°  ♂03'54				
opposition	6807 Apr 09 18:56	21°  ♂02'06 0°59'48	conjunction	6813 Mar 29 07:29	9°  ♂57'39	-0°33'35
min. Earth dist.	6807 Apr 08 17:06	21°  ♂10'44 4.28488 AU	minimum elong	6813 Mar 29 07:28	9°  ♂57'38	0°33'36
direct	6807 Jun 09 00:15	16°  ♂01'13	morning rise	6813 Apr 11 02:25	12°  ♂56'37	
	6807 Sep 24 13:38	0°  ♂		6813 Jul 10 13:37	0°  ♂	
evening set	6807 Oct 13 09:47	4°  ♂02'08	retrograde	6813 Aug 16 18:00	2°  ♂07'38	
				6813 Sep 23 05:19	30°  ♂♂	
conjunction	6807 Oct 26 20:21	6°  ♂58'34 0°48'30	opposition	6813 Oct 16 02:41	27°  ♂12'17	-1°05'40
minimum elong	6807 Oct 26 20:20	6°  ♂58'34 0°48'33	min. Earth dist.	6813 Oct 17 02:01	27°  ♂04'40	4.06308 AU
max. Earth dist.	6807 Oct 27 21:47	7°  ♂12'30 6.35844 AU	direct	6813 Dec 15 02:12	22°  ♂16'16	
morning rise	6807 Nov 09 05:35	9°  ♂54'04		6814 Feb 26 00:57	0°  ♂	
	6807 Dec 03 06:46	15°  ♂	evening set	6814 Apr 20 00:16	11°  ♂40'09	
retrograde	6808 Mar 10 12:31	27°  ♂11'33				
opposition	6808 May 09 21:28	22°  ♂13'11 1°16'09	conjunction	6814 May 02 23:00	14°  ♂46'56	-0°50'31
min. Earth dist.	6808 May 09 13:46	22°  ♂15'43 4.41837 AU	minimum elong	6814 May 02 22:59	14°  ♂46'56	0°50'34
direct	6808 Jul 10 10:02	17°  ♂11'19	max. Earth dist.	6814 May 02 04:39	14°  ♂35'53	5.99469 AU
	6808 Oct 22 03:34	0°  ♂♂		6814 May 03 20:40	15°  ♂	
evening set	6808 Nov 13 11:22	4°  ♂39'50	morning rise	6814 May 15 23:16	17°  ♂54'52	
				6814 Jul 09 13:17	0°  ♂♂	
conjunction	6808 Nov 26 16:08	7°  ♂29'48 0°52'38	retrograde	6814 Sep 23 23:13	8°  ♂15'21	
minimum elong	6808 Nov 26 16:08	7°  ♂29'48 0°52'42	opposition	6814 Nov 22 18:33	3°  ♂16'51	-1°18'48
max. Earth dist.	6808 Nov 26 13:32	7°  ♂28'24 6.46176 AU	min. Earth dist.	6814 Nov 22 19:31	3°  ♂16'32	3.94385 AU
morning rise	6808 Dec 09 18:28	10°  ♂18'34		6814 Dec 19 21:27	30°  ♂♂	
retrograde	6809 Apr 09 06:44	27°  ♂01'21	direct	6815 Jan 20 09:52	28°  ♂22'34	
opposition	6809 Jun 09 00:32	22°  ♂06'13 1°11'22		6815 Feb 20 15:19	0°  ♂♂	
min. Earth dist.	6809 Jun 09 11:31	22°  ♂02'40 4.48594 AU	evening set	6815 May 26 16:15	18°  ♂19'45	
direct	6809 Aug 10 09:57	17°  ♂04'16				
	6809 Nov 23 11:04	0°  ♂	conjunction	6815 Jun 08 22:02	21°  ♂33'31	-0°48'44
evening set	6809 Dec 14 04:18	4°  ♂19'24	minimum elong	6815 Jun 08 22:03	21°  ♂33'32	0°48'48
max. Earth dist.	6809 Dec 25 21:21	6°  ♂50'00 6.48853 AU	max. Earth dist.	6815 Jun 09 15:36	21°  ♂44'15	5.91676 AU
			morning rise	6815 Jun 22 06:31	24°  ♂48'48	

	6815 Jul 14 02:08	0°☾			6821 Mar 15 11:32	0°☾
retrograde	6815 Nov 01 16:26	15°☾41'10		retrograde	6821 Apr 13 11:34	1°☾16'59
min. Earth dist.	6815 Dec 30 05:02	10°☾47'06 3.91749 AU			6821 May 12 08:55	30°☾☿
opposition	6815 Dec 31 04:42	10°☾39'06 -1°00'14		opposition	6821 Jun 13 05:33	26°☿22'12 1°09'04
direct	6816 Feb 27 01:09	5°☾44'32		min. Earth dist.	6821 Jun 13 20:11	26°☿17'28 4.49047 AU
evening set	6816 Jul 02 15:14	25°☾42'38		direct	6821 Aug 14 18:25	21°☿20'12
					6821 Nov 05 16:50	0°☾
conjunction	6816 Jul 16 04:19	28°☾58'36 -0°27'16		evening set	6821 Dec 18 09:50	8°☾34'38
minimum elong	6816 Jul 16 04:20	28°☾58'37 0°27'19		max. Earth dist.	6821 Dec 29 23:45	11°☾03'38 6.48663 AU
max. Earth dist.	6816 Jul 18 04:21	29°☾27'35 5.94422 AU				
	6816 Jul 20 10:04	0°☾		conjunction	6821 Dec 31 08:41	11°☾21'21 0°40'11
morning rise	6816 Jul 29 20:03	2°☾15'45		minimum elong	6821 Dec 31 08:43	11°☾21'22 0°40'14
	6816 Sep 25 22:27	15°☾		morning rise	6822 Jan 13 05:02	14°☾06'59
retrograde	6816 Dec 08 02:01	22°☾43'03			6822 Apr 21 01:53	0°☾
min. Earth dist.	6817 Feb 04 00:34	17°☾51'10 3.99559 AU		retrograde	6822 May 13 12:05	0°☾46'25
opposition	6817 Feb 05 13:19	17°☾38'38 -0°17'25			6822 Jun 04 22:47	30°☾☿
	6817 Feb 26 02:46	15°☾☿		opposition	6822 Jul 13 11:25	25°☾53'31 0°43'43
direct	6817 Apr 04 16:07	12°☾41'49		min. Earth dist.	6822 Jul 14 17:20	25°☾43'57 4.46282 AU
	6817 May 12 05:16	15°☾		direct	6822 Sep 14 04:57	20°☾52'08
asc. node	6817 Jun 28 16:29	22°☾54'25			6822 Dec 08 05:48	0°☾
	6817 Jul 31 01:09	0°☾		evening set	6823 Jan 17 16:21	8°☾17'43
evening set	6817 Aug 09 07:07	2°☾08'21		max. Earth dist.	6823 Jan 28 09:04	10°☾37'54 6.41846 AU
conjunction	6817 Aug 22 23:51	5°☾20'14 0°04'31		conjunction	6823 Jan 30 11:35	11°☾05'36 0°17'40
minimum elong	6817 Aug 22 23:51	5°☾20'14 0°04'30		minimum elong	6823 Jan 30 11:36	11°☾05'36 0°17'43
behind sun begin	6817 Aug 22 15:38	5°☾15'27		morning rise	6823 Feb 12 04:59	13°☾52'46
behind sun end	6817 Aug 23 08:04	5°☾25'01			6823 Feb 17 08:49	15°☾
max. Earth dist.	6817 Aug 25 12:08	5°☾55'29 6.06478 AU			6823 May 18 21:33	0°☾
morning rise	6817 Sep 05 17:40	8°☾32'24		retrograde	6823 Jun 14 00:07	1°☾02'23
retrograde	6818 Jan 11 23:11	27°☾53'39			6823 Jul 10 02:01	30°☾☾
min. Earth dist.	6818 Mar 11 03:29	23°☾01'44 4.14462 AU		opposition	6823 Aug 13 22:02	26°☾09'57 0°05'52
opposition	6818 Mar 12 15:21	22°☾49'36 0°29'34		min. Earth dist.	6823 Aug 15 13:37	25°☾57'19 4.35765 AU
direct	6818 May 10 17:41	17°☾50'15		desc. node	6823 Oct 08 11:00	21°☾14'04
	6818 Aug 15 10:33	0°☾		direct	6823 Oct 15 05:55	21°☾09'51
evening set	6818 Sep 14 06:47	6°☾29'17			6824 Jan 05 07:46	0°☾
				evening set	6824 Feb 17 15:37	9°☾06'46
conjunction	6818 Sep 27 21:36	9°☾32'57 0°33'10		max. Earth dist.	6824 Feb 28 02:01	11°☾27'54 6.28370 AU
minimum elong	6818 Sep 27 21:35	9°☾32'57 0°33'10				
max. Earth dist.	6818 Sep 29 21:19	9°☾59'48 6.22862 AU		conjunction	6824 Mar 01 09:24	11°☾59'14 -0°10'34
morning rise	6818 Oct 11 12:14	12°☾36'10		minimum elong	6824 Mar 01 09:24	11°☾59'14 0°10'34
	6819 Jan 22 22:01	0°☾		behind sun begin	6824 Mar 01 03:09	11°☾55'43
retrograde	6819 Feb 13 05:13	0°☾43'43		behind sun end	6824 Mar 01 15:38	12°☾02'45
	6819 Mar 06 09:57	30°☾☿		morning rise	6824 Mar 14 02:21	14°☾51'34
min. Earth dist.	6819 Apr 13 07:27	25°☾50'10 4.30802 AU			6824 Jun 01 22:32	0°☾
opposition	6819 Apr 14 07:15	25°☾42'13 1°03'24		retrograde	6824 Jul 16 16:17	2°☾59'13
direct	6819 Jun 13 17:41	20°☾41'03			6824 Aug 31 04:09	30°☾☿
	6819 Sep 06 07:12	0°☾		opposition	6824 Sep 15 09:31	28°☾05'45 -0°36'05
evening set	6819 Oct 18 01:14	8°☾35'38		min. Earth dist.	6824 Sep 16 21:22	27°☾54'12 4.20145 AU
				direct	6824 Nov 15 14:25	23°☾07'42
conjunction	6819 Oct 31 11:05	11°☾30'54 0°49'59			6825 Jan 24 08:04	0°☾
minimum elong	6819 Oct 31 11:04	11°☾30'53 0°50'01		evening set	6825 Mar 21 05:50	11°☾50'40
max. Earth dist.	6819 Nov 01 09:47	11°☾43'17 6.37883 AU		max. Earth dist.	6825 Apr 01 06:52	14°☾25'44 6.11866 AU
morning rise	6819 Nov 13 19:09	14°☾25'07				
	6819 Nov 16 11:45	15°☾		conjunction	6825 Apr 03 00:51	14°☾50'23 -0°36'49
	6820 Feb 11 14:42	0°☾		minimum elong	6825 Apr 03 00:50	14°☾50'22 0°36'50
retrograde	6820 Mar 14 17:16	1°☾35'14		morning rise	6825 Apr 15 20:15	17°☾50'39
	6820 Apr 15 16:50	30°☾☿			6825 Jun 11 15:26	0°☾
opposition	6820 May 14 04:15	26°☾37'20 1°16'40		retrograde	6825 Aug 22 02:10	7°☾13'10
min. Earth dist.	6820 May 13 22:52	26°☾39'06 4.43450 AU		opposition	6825 Oct 21 07:38	2°☾17'30 -1°09'12
direct	6820 Jul 14 20:39	21°☾35'25		min. Earth dist.	6825 Oct 22 05:03	2°☾10'30 4.04056 AU
	6820 Oct 03 22:01	0°☾			6825 Nov 08 13:10	30°☾☿
evening set	6820 Nov 17 20:33	9°☾00'03		direct	6825 Dec 20 02:46	27°☾21'53
					6826 Jan 29 20:52	0°☾
conjunction	6820 Dec 01 00:19	11°☾49'15 0°52'00			6826 Apr 17 05:05	15°☾
minimum elong	6820 Dec 01 00:19	11°☾49'15 0°52'04		evening set	6826 Apr 25 01:45	16°☾52'36
max. Earth dist.	6820 Nov 30 16:03	11°☾44'49 6.47237 AU		max. Earth dist.	6826 May 07 10:55	19°☾51'56 5.97668 AU
morning rise	6820 Dec 14 01:57	14°☾37'18				

conjunction	6826 May 08 01:17	20°♄00'37 -0°51'32	morning rise	6831 Nov 18 05:28	18°♎48'42	
minimum elong	6826 May 08 01:17	20°♄00'37 0°51'34		6832 Jan 14 05:52	0°♈	
morning rise	6826 May 21 02:44	23°♄09'54	retrograde	6832 Mar 18 20:09	5°♈52'43	
	6826 Jun 19 09:34	0°♊	opposition	6832 May 18 08:35	0°♈55'18	1°16'47
retrograde	6826 Sep 29 10:11	13°♊38'31	min. Earth dist.	6832 May 18 06:21	0°♈56'02	4.44723 AU
opposition	6826 Nov 28 04:58	8°♊39'34 -1°18'06		6832 May 25 10:51	30°♎	
min. Earth dist.	6826 Nov 28 01:09	8°♊40'50 3.93283 AU	direct	6832 Jul 19 04:33	25°♎53'17	
direct	6827 Jan 25 15:08	3°♊45'28		6832 Sep 11 17:14	0°♈	
evening set	6827 Jun 01 00:31	23°♊45'22	evening set	6832 Nov 22 03:02	13°♈15'22	
conjunction	6827 Jun 14 07:21	26°♊59'49 -0°46'45	conjunction	6832 Dec 05 06:11	16°♈04'03	0°51'07
minimum elong	6827 Jun 14 07:22	26°♊59'49 0°46'50	minimum elong	6832 Dec 05 06:11	16°♈04'04	0°51'12
max. Earth dist.	6827 Jun 15 06:07	27°♊13'43 5.91397 AU	max. Earth dist.	6832 Dec 04 18:56	15°♈58'01	6.47872 AU
	6827 Jun 26 15:00	0°♉	morning rise	6832 Dec 18 06:50	18°♈51'32	
morning rise	6827 Jun 27 17:00	0°♉15'46		6833 Feb 13 23:52	0°♉	
retrograde	6827 Nov 07 02:27	21°♉07'58	retrograde	6833 Apr 17 13:28	5°♉29'45	
min. Earth dist.	6828 Jan 04 11:54	16°♉14'21 3.92339 AU	opposition	6833 Jun 17 09:08	0°♉35'20	1°06'30
opposition	6828 Jan 05 14:16	16°♉05'25 -0°55'14	min. Earth dist.	6833 Jun 18 02:02	0°♉29'55	4.49027 AU
direct	6828 Mar 03 11:23	11°♉10'38		6833 Jun 21 23:18	30°♎♈	
	6828 Jul 03 10:38	0°♏	direct	6833 Aug 18 23:18	25°♈33'27	
evening set	6828 Jul 08 00:24	1°♏05'28		6833 Oct 15 04:10	0°♉	
conjunction	6828 Jul 21 14:24	4°♏21'10 -0°23'05	evening set	6833 Dec 22 14:39	12°♉48'45	
minimum elong	6828 Jul 21 14:25	4°♏21'10 0°23'08	max. Earth dist.	6834 Jan 02 23:22	15°♉15'18	6.47982 AU
max. Earth dist.	6828 Jul 23 19:23	4°♏53'00 5.95826 AU				
morning rise	6828 Aug 04 06:37	7°♏37'52	conjunction	6834 Jan 04 12:47	15°♉35'29	0°37'35
	6828 Sep 05 07:13	15°♏	minimum elong	6834 Jan 04 12:48	15°♉35'30	0°37'39
retrograde	6828 Dec 13 04:27	27°♏56'43	morning rise	6834 Jan 17 08:47	18°♉21'14	
min. Earth dist.	6829 Feb 09 02:20	23°♏04'57 4.01601 AU		6834 Mar 18 22:14	0°♊	
opposition	6829 Feb 10 15:48	22°♏52'12 -0°10'33	retrograde	6834 May 17 19:57	5°♊03'48	
direct	6829 Apr 09 21:02	17°♏55'04	opposition	6834 Jul 17 18:19	0°♊11'05	0°39'02
asc. node	6829 May 08 10:59	19°♏16'18	min. Earth dist.	6834 Jul 19 03:02	0°♊00'38	4.44985 AU
	6829 Jul 13 03:55	0°♎		6834 Jul 19 05:00	30°♎♉	
evening set	6829 Aug 14 11:23	7°♎14'17	direct	6834 Sep 18 12:18	25°♉09'48	
conjunction	6829 Aug 28 03:55	10°♎24'59 0°08'58		6834 Nov 17 01:36	0°♊	
minimum elong	6829 Aug 28 03:54	10°♎24'58 0°08'57	evening set	6835 Jan 21 22:44	12°♊39'32	
behind sun begin	6829 Aug 27 20:47	10°♎20'51	max. Earth dist.	6835 Feb 01 14:53	15°♊	
behind sun end	6829 Aug 28 11:02	10°♎29'05		6835 Feb 01 13:45	14°♊59'22	6.40028 AU
max. Earth dist.	6829 Aug 30 15:04	10°♎59'20 6.08930 AU	conjunction	6835 Feb 03 17:48	15°♊28'02	0°13'55
morning rise	6829 Sep 10 21:39	13°♎35'54	minimum elong	6835 Feb 03 17:49	15°♊28'02	0°13'58
	6829 Dec 05 10:34	0°♊	behind sun begin	6835 Feb 03 13:41	15°♊25'46	
retrograde	6830 Jan 16 13:12	2°♊45'30	behind sun end	6835 Feb 03 21:57	15°♊30'18	
	6830 Feb 27 15:11	30°♎♊	morning rise	6835 Feb 16 11:00	18°♊15'51	
min. Earth dist.	6830 Mar 15 21:00	27°♎53'33 4.17073 AU		6835 Apr 16 20:04	0°♋	
opposition	6830 Mar 17 08:08	27°♎41'40 0°35'20	retrograde	6835 Jun 18 13:10	5°♋32'55	
direct	6830 May 15 14:50	22°♎42'01	opposition	6835 Aug 18 11:28	0°♋40'24	-0°00'00
	6830 Jul 26 15:49	0°♊	desc. node	6835 Aug 18 11:11	0°♋40'30	
evening set	6830 Sep 19 02:48	11°♊13'20	min. Earth dist.	6835 Aug 20 02:18	0°♋28'00	4.33550 AU
conjunction	6830 Oct 02 17:04	14°♊15'39 0°36'19		6835 Aug 23 18:18	30°♎♊	
minimum elong	6830 Oct 02 17:03	14°♊15'38 0°36'20	direct	6835 Oct 19 15:18	25°♊40'34	
max. Earth dist.	6830 Oct 04 13:48	14°♊40'41 6.25415 AU		6835 Dec 13 21:18	0°♋	
morning rise	6830 Oct 16 06:43	17°♊17'21	evening set	6836 Feb 22 03:06	13°♋44'06	
	6830 Dec 19 09:33	0°♎	max. Earth dist.	6836 Mar 03 15:24	16°♋07'06	6.25932 AU
retrograde	6831 Feb 17 13:22	5°♎14'48	conjunction	6836 Mar 05 20:53	16°♋37'32	-0°14'34
opposition	6831 Apr 18 16:06	0°♎13'52 1°06'29	minimum elong	6836 Mar 05 20:52	16°♋37'32	0°14'34
min. Earth dist.	6831 Apr 17 19:16	0°♎20'47 4.33082 AU	behind sun begin	6836 Mar 05 17:14	16°♋35'28	
	6831 Apr 20 09:48	30°♎♊	behind sun end	6836 Mar 06 00:31	16°♋39'36	
direct	6831 Jun 18 07:56	25°♊12'33	morning rise	6836 Mar 18 13:59	19°♋30'56	
	6831 Aug 15 14:35	0°♎		6836 May 07 09:11	0°♌	
evening set	6831 Oct 22 13:18	13°♎01'23	retrograde	6836 Jul 21 17:08	7°♌49'06	
	6831 Oct 31 16:03	15°♎	opposition	6836 Sep 20 07:51	2°♌55'25	-0°41'38
conjunction	6831 Nov 04 22:13	15°♎55'33 0°51'07	min. Earth dist.	6836 Sep 21 18:58	2°♌44'05	4.17659 AU
minimum elong	6831 Nov 04 22:12	15°♎55'33 0°51'10		6836 Oct 14 13:59	30°♎♌	
max. Earth dist.	6831 Nov 05 15:35	16°♎04'59 6.39705 AU	direct	6836 Nov 20 09:12	27°♌57'42	
			evening set	6836 Dec 26 17:57	0°♌	
				6837 Mar 26 00:49	16°♌47'59	

max. Earth dist.	6837 Apr 06 05:03	19°Υ25'45	6.09556 AU	minimum elong	6842 Oct 07 10:34	18°♌53'17	0°39'14
				max. Earth dist.	6842 Oct 09 04:06	19°♌16'25	6.27599 AU
conjunction	6837 Apr 07 20:16	19°Υ48'53	-0°39'48	morning rise	6842 Oct 20 23:29	21°♌53'44	
minimum elong	6837 Apr 07 20:15	19°Υ48'52	0°39'50		6842 Nov 28 12:09	0°♍	
morning rise	6837 Apr 20 16:23	22°Υ50'27		retrograde	6843 Feb 21 19:10	9°♍42'39	
	6837 May 22 05:30	0°♎		min. Earth dist.	6843 Apr 22 05:10	4°♍48'28	4.34948 AU
retrograde	6837 Aug 27 08:59	12°♎23'21		opposition	6843 Apr 23 00:05	4°♍42'11	1°09'11
opposition	6837 Oct 26 13:45	7°♎27'14	-1°12'12		6843 Jun 08 13:49	30°♎♌	
min. Earth dist.	6837 Oct 27 06:48	7°♎21'39	4.02159 AU	direct	6843 Jun 22 19:18	29°♌40'44	
direct	6837 Dec 25 02:40	2°♎31'54			6843 Jul 07 04:22	0°♍	
	6838 Mar 30 12:54	15°♎			6843 Oct 15 16:48	15°♍	
evening set	6838 Apr 30 04:25	22°♎07'53		evening set	6843 Oct 27 00:48	17°♍25'12	
conjunction	6838 May 13 04:48	25°♎16'54	-0°52'06	conjunction	6843 Nov 09 08:56	20°♍18'30	0°51'59
minimum elong	6838 May 13 04:48	25°♎16'54	0°52'09	minimum elong	6843 Nov 09 08:55	20°♍18'29	0°52'02
max. Earth dist.	6838 May 12 20:00	25°♎11'34	5.96362 AU	max. Earth dist.	6843 Nov 09 22:05	20°♍25'38	6.41127 AU
morning rise	6838 May 26 07:16	28°♎27'14		morning rise	6843 Nov 22 15:11	23°♍10'42	
	6838 Jun 01 17:57	0°♏			6843 Dec 25 14:11	0°♎	
retrograde	6838 Oct 04 21:08	19°♏01'30		retrograde	6844 Mar 23 00:36	10°♎09'58	
opposition	6838 Dec 03 14:57	14°♏01'56	-1°16'43	opposition	6844 May 22 13:21	5°♎13'06	1°16'29
min. Earth dist.	6838 Dec 03 07:52	14°♏04'18	3.92708 AU	min. Earth dist.	6844 May 22 14:24	5°♎12'45	4.45619 AU
direct	6839 Jan 30 23:13	9°♏07'49		direct	6844 Jul 23 12:59	0°♎11'06	
evening set	6839 Jun 06 07:40	29°♏08'09		evening set	6844 Nov 26 10:20	17°♎31'42	
	6839 Jun 09 21:03	0°♑					
				conjunction	6844 Dec 09 12:41	20°♎19'59	0°49'57
conjunction	6839 Jun 19 15:42	2°♑23'01	-0°44'23	minimum elong	6844 Dec 09 12:42	20°♎20'00	0°50'00
minimum elong	6839 Jun 19 15:43	2°♑23'02	0°44'26	max. Earth dist.	6844 Dec 08 20:21	20°♎11'14	6.48174 AU
max. Earth dist.	6839 Jun 20 20:44	2°♑40'43	5.91606 AU	morning rise	6844 Dec 22 12:45	23°♎07'08	
morning rise	6839 Jul 03 02:18	5°♑39'19			6845 Jan 25 03:31	0°♏	
retrograde	6839 Nov 12 10:41	26°♑28'59		retrograde	6845 Apr 21 18:33	9°♏44'53	
opposition	6840 Jan 10 21:21	21°♑26'02	-0°49'48	opposition	6845 Jun 21 14:20	4°♏50'49	1°03'32
min. Earth dist.	6840 Jan 09 16:55	21°♑35'40	3.93311 AU	min. Earth dist.	6845 Jun 22 09:47	4°♏44'34	4.48744 AU
direct	6840 Mar 08 18:23	16°♑30'59			6845 Aug 12 04:35	30°♎♎	
	6840 Jun 15 22:42	0°♐		direct	6845 Aug 23 05:34	29°♎48'59	
evening set	6840 Jul 13 07:22	6°♐21'22			6845 Sep 03 07:15	0°♏	
				evening set	6845 Dec 26 20:34	17°♏05'51	
conjunction	6840 Jul 26 21:49	9°♐36'32	-0°18'47	max. Earth dist.	6846 Jan 07 03:40	19°♏31'50	6.47143 AU
minimum elong	6840 Jul 26 21:50	9°♐36'33	0°18'50				
max. Earth dist.	6840 Jul 29 03:55	10°♐08'54	5.97431 AU	conjunction	6846 Jan 08 18:22	19°♏52'45	0°34'44
morning rise	6840 Aug 09 14:43	12°♐52'42		minimum elong	6846 Jan 08 18:23	19°♏52'45	0°34'48
	6840 Aug 18 14:50	15°♐		morning rise	6846 Jan 21 13:43	22°♏38'38	
	6840 Nov 03 23:08	0°♑			6846 Feb 26 09:01	0°♏	
retrograde	6840 Dec 18 01:30	3°♑02'28		retrograde	6846 May 22 03:57	9°♏24'55	
	6841 Jan 31 05:47	30°♑♐		opposition	6846 Jul 22 03:15	4°♏32'24	0°

minimum elong	6848 Mar 10 09:34	21° H 18'29	0°18'31	max. Earth dist.	6853 Sep 09 11:00	20° H 41'41	6.13262 AU
morning rise	6848 Mar 23 02:49	24° H 12'48		morning rise	6853 Sep 20 19:12	23° H 17'39	
	6848 Apr 18 05:37	0° Y			6853 Oct 21 05:30	0° A	
retrograde	6848 Jul 26 15:52	12° Y 40'05		retrograde	6854 Jan 25 13:08	12° A 07'25	
opposition	6848 Sep 25 06:32	7° Y 46'10	-0°46'55	min. Earth dist.	6854 Mar 25 01:41	7° A 15'00	4.21370 AU
min. Earth dist.	6848 Sep 26 14:36	7° Y 35'49	4.15698 AU	opposition	6854 Mar 26 09:28	7° A 04'18	0°45'43
direct	6848 Nov 25 02:18	2° Y 48'53		direct	6854 May 25 00:26	2° A 04'06	
evening set	6849 Mar 30 19:30	21° Y 44'37		evening set	6854 Sep 28 11:49	20° A 23'54	
max. Earth dist.	6849 Apr 11 04:10	24° Y 25'36	6.07858 AU				
conjunction	6849 Apr 12 15:16	24° Y 46'24	-0°42'29	conjunction	6854 Oct 12 00:48	23° A 24'01	0°41'46
minimum elong	6849 Apr 12 15:15	24° Y 46'23	0°42'32	minimum elong	6854 Oct 12 00:46	23° A 24'00	0°41'47
morning rise	6849 Apr 25 11:59	27° Y 48'58		max. Earth dist.	6854 Oct 13 13:44	23° A 44'31	6.29341 AU
	6849 May 04 19:59	0° B		morning rise	6854 Oct 25 12:57	26° A 23'24	
	6849 Jul 23 07:00	15° B			6854 Nov 11 04:30	0° M	
retrograde	6849 Sep 01 15:16	17° B 30'05		retrograde	6855 Feb 26 01:30	14° M 05'29	
	6849 Oct 12 06:30	15° R B		opposition	6855 Apr 27 05:54	9° M 05'31	1°11'24
opposition	6849 Oct 31 18:30	12° B 33'31	-1°14'35	min. Earth dist.	6855 Apr 26 14:24	9° M 10'39	4.36374 AU
min. Earth dist.	6849 Nov 01 08:45	12° B 28'50	4.00884 AU	direct	6855 Jun 27 05:43	4° M 03'55	
direct	6849 Dec 30 04:11	7° B 38'27			6855 Sep 28 20:23	15° M	
	6850 Mar 10 13:45	15° B		evening set	6855 Oct 31 10:17	21° M 45'21	
evening set	6850 May 05 04:34	27° B 17'22		conjunction	6855 Nov 13 17:45	24° M 37'58	0°52'31
	6850 May 16 09:13	0° I		minimum elong	6855 Nov 13 17:45	24° M 37'58	0°52'35
conjunction	6850 May 18 05:52	0° I 27'07	-0°52'16	max. Earth dist.	6855 Nov 14 03:34	24° M 43'17	6.42140 AU
minimum elong	6850 May 18 05:52	0° I 27'07	0°52'19	morning rise	6855 Nov 26 23:10	27° M 29'27	
max. Earth dist.	6850 May 18 02:49	0° I 25'16	5.95637 AU		6855 Dec 08 18:05	0° J	
morning rise	6850 May 31 09:12	3° I 38'12		retrograde	6856 Mar 27 03:02	14° J 25'13	
retrograde	6850 Oct 10 04:16	24° I 15'36		opposition	6856 May 26 17:11	9° J 28'43	1°15'47
opposition	6850 Dec 08 20:51	19° I 15'37	-1°14'42	min. Earth dist.	6856 May 26 19:52	9° J 27'51	4.46191 AU
min. Earth dist.	6850 Dec 08 10:43	19° I 19'00	3.92646 AU	direct	6856 Jul 27 18:14	4° J 26'41	
direct	6851 Feb 05 02:45	14° I 21'31		evening set	6856 Nov 30 16:26	21° J 46'27	
	6851 May 24 05:40	0° E		conjunction	6856 Dec 13 18:08	24° J 34'27	0°48'31
evening set	6851 Jun 11 10:58	4° E 20'42		minimum elong	6856 Dec 13 18:09	24° J 34'27	0°48'34
conjunction	6851 Jun 24 19:44	7° E 35'42	-0°41'44	max. Earth dist.	6856 Dec 12 23:24	24° J 24'23	6.48277 AU
minimum elong	6851 Jun 24 19:46	7° E 35'43	0°41'48	morning rise	6856 Dec 26 17:25	27° J 21'16	
max. Earth dist.	6851 Jun 26 03:08	7° E 54'49	5.92184 AU		6857 Jan 08 06:12	0° Z	
morning rise	6851 Jul 08 07:27	10° E 52'10		retrograde	6857 Apr 25 23:02	13° Z 58'59	
	6851 Oct 16 14:47	0° O		opposition	6857 Jun 25 19:10	9° Z 05'11	1°00'15
retrograde	6851 Nov 17 10:30	1° O 37'56		min. Earth dist.	6857 Jun 26 16:44	8° Z 58'16	4.48376 AU
	6851 Dec 19 03:29	30° R E		direct	6857 Aug 27 11:38	4° Z 03'26	
opposition	6852 Jan 15 22:47	26° E 34'38	-0°44'12	evening set	6857 Dec 31 01:52	21° Z 21'37	
min. Earth dist.	6852 Jan 14 16:04	26° E 45'04	3.94472 AU	max. Earth dist.	6858 Jan 11 04:57	23° Z 45'48	6.46313 AU
direct	6852 Mar 13 19:54	21° E 39'17		conjunction	6858 Jan 12 23:01	24° Z 08'35	0°31'42
	6852 May 27 19:44	0° O		minimum elong	6858 Jan 12 23:03	24° Z 08'36	0°31'47
evening set	6852 Jul 18 09:04	11° O 25'03		morning rise	6858 Jan 25 18:05	26° Z 54'39	
conjunction	6852 Aug 01 00:10	14° O 39'42	-0°14'32		6858 Feb 09 06:33	0° \approx	
minimum elong	6852 Aug 01 00:11	14° O 39'43	0°14'34	retrograde	6858 May 26 12:46	13° \approx 44'20	
behind sun begin	6852 Jul 31 20:45	14° O 37'41		opposition	6858 Jul 26 11:36	8° \approx 51'49	0°28'51
behind sun end	6852 Aug 01 03:37	14° O 41'45		min. Earth dist.	6858 Jul 27 22:12	8° \approx 40'46	4.42400 AU
	6852 Aug 02 10:13	15° O		direct	6858 Sep 27 02:51	3° \approx 50'53	
max. Earth dist.	6852 Aug 03 07:33	15° O 12'43	5.99062 AU		6858 Dec 31 00:08	15° \approx	
morning rise	6852 Aug 14 17:18	17° O 55'12		evening set	6859 Jan 30 13:36	21° \approx 28'14	
	6852 Oct 09 06:01	0° H		max. Earth dist.	6859 Feb 10 03:36	23° \approx 48'37	6.36710 AU
retrograde	6852 Dec 22 20:10	7° H 56'25		conjunction	6859 Feb 12 08:08	24° \approx 17'46	0°06'07
asc. node	6853 Jan 28 12:26	5° H 46'45		minimum elong	6859 Feb 12 08:08	24° \approx 17'46	0°06'09
min. Earth dist.	6853 Feb 18 20:07	3° H 04'26	4.05561 AU	behind sun begin	6859 Feb 12 00:34	24° \approx 13'36	
opposition	6853 Feb 20 09:04	2° H 51'52	0°02'45	behind sun end	6859 Feb 12 15:41	24° \approx 21'57	
	6853 Mar 14 22:11	30° R O		morning rise	6859 Feb 25 00:58	27° \approx 06'45	
direct	6853 Apr 19 20:57	27° O 53'59			6859 Mar 10 06:16	0° H	
	6853 May 25 22:16	0° H		desc. node	6859 May 07 17:09	10° H 49'12	
evening set	6853 Aug 24 09:47	17° H 00'24		retrograde	6859 Jun 27 20:01	14° H 37'49	
conjunction	6853 Sep 07 02:13	20° H 09'03	0°17'20	opposition	6859 Aug 27 17:05	9° H 45'08	-0°11'56
minimum elong	6853 Sep 07 02:12	20° H 09'02	0°17'20	min. Earth dist.	6859 Aug 29 07:40	9° H 32'48	4.29688 AU
				direct	6859 Oct 28 15:03	4° H 45'53	




































































































































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max. Earth dist.	6860 Mar 12 17:40	25° H 26'11 6.21827 AU	minimum elong	6865 Sep 12 02:26	25° H 03'16	0°21'25
conjunction	6860 Mar 14 20:38	25° H 55'28 -0°22'21	max. Earth dist.	6865 Sep 14 08:36	25° H 34'17	6.15333 AU
minimum elong	6860 Mar 14 20:37	25° H 55'27 0°22'20	morning rise	6865 Sep 25 19:07	28° H 10'46	
morning rise	6860 Mar 27 14:14	28° H 50'44		6865 Oct 03 20:55	0° A	
	6860 Apr 01 15:53	0° Y	retrograde	6866 Jan 30 02:35	16° A 51'06	
retrograde	6860 Jul 31 15:23	17° Y 27'23	opposition	6866 Mar 30 23:15	11° A 48'22	0°50'32
opposition	6860 Sep 30 04:07	12° Y 33'07 -0°51'52	min. Earth dist.	6866 Mar 29 17:37	11° A 58'20	4.23512 AU
min. Earth dist.	6860 Oct 01 10:55	12° Y 23'08 4.13612 AU	direct	6866 May 29 19:10	6° A 47'59	
direct	6860 Nov 29 20:04	7° Y 36'06	evening set	6866 Oct 03 05:15	25° A 01'58	
evening set	6861 Apr 04 13:04	26° Y 37'52	conjunction	6866 Oct 16 17:42	28° A 00'59	0°44'10
max. Earth dist.	6861 Apr 16 02:21	29° Y 22'13 6.05927 AU	minimum elong	6866 Oct 16 17:40	28° A 00'58	0°44'11
conjunction	6861 Apr 17 09:30	29° Y 40'45 -0°44'52	max. Earth dist.	6866 Oct 18 05:15	28° A 20'38	6.31419 AU
minimum elong	6861 Apr 17 09:29	29° Y 40'44 0°44'54		6866 Oct 25 17:16	0° M	
	6861 Apr 18 17:52	0° B	morning rise	6866 Oct 30 04:52	0° M 59'08	
morning rise	6861 Apr 30 06:51	2° B 44'27	retrograde	6867 Jan 12 11:00	15° M	
	6861 Jun 25 17:27	15° B		6867 Mar 02 07:10	18° M 33'08	
retrograde	6861 Sep 06 20:29	22° B 34'40	opposition	6867 Apr 20 12:35	15° R M	
opposition	6861 Nov 05 22:22	17° B 37'43 -1°16'26	min. Earth dist.	6867 May 01 13:44	13° M 33'40	1°13'18
min. Earth dist.	6861 Nov 06 09:42	17° B 33'59 3.99306 AU	direct	6867 Apr 30 23:16	13° M 38'27	4.38260 AU
	6861 Nov 27 00:18	15° R B		6867 Jul 01 16:30	8° M 32'04	
direct	6862 Jan 04 03:05	12° B 42'54	evening set	6867 Sep 09 01:22	15° M	
	6862 Feb 10 17:27	15° B		6867 Nov 04 21:00	26° M 08'43	
	6862 Apr 30 01:09	0° II	conjunction	6867 Nov 18 03:28	29° M 00'21	0°52'49
evening set	6862 May 10 05:19	2° II 26'18	minimum elong	6867 Nov 18 03:28	29° M 00'21	0°52'52
conjunction	6862 May 23 07:25	5° II 36'59 -0°52'01	max. Earth dist.	6867 Nov 18 08:56	29° M 03'18	6.43710 AU
minimum elong	6862 May 23 07:26	5° II 36'59 0°52'05		6867 Nov 22 17:56	0° J	
max. Earth dist.	6862 May 23 07:38	5° II 37'07 5.94554 AU	morning rise	6867 Dec 01 08:00	1° J 50'52	
morning rise	6862 Jun 05 12:02	8° II 49'07	retrograde	6868 Mar 31 07:07	18° J 41'22	
retrograde	6862 Oct 15 11:17	29° II 31'11	opposition	6868 May 30 21:32	13° J 45'20	1°14'43
opposition	6862 Dec 14 03:20	24° II 30'41 -1°12'07	min. Earth dist.	6868 May 31 03:26	13° J 43'25	4.47354 AU
min. Earth dist.	6862 Dec 13 13:32	24° II 35'19 3.92188 AU	direct	6868 Aug 01 02:42	8° J 43'18	
direct	6863 Feb 10 06:30	19° II 36'31	evening set	6868 Dec 04 21:51	26° J 00'15	
	6863 May 05 21:39	0° B	conjunction	6868 Dec 17 22:50	28° J 47'42	0°46'53
evening set	6863 Jun 16 15:57	9° B 36'22	minimum elong	6868 Dec 17 22:51	28° J 47'42	0°46'57
conjunction	6863 Jun 30 01:56	12° B 51'48 -0°38'43	max. Earth dist.	6868 Dec 17 00:36	28° J 35'46	6.48941 AU
minimum elong	6863 Jun 30 01:57	12° B 51'49 0°38'47		6868 Dec 23 13:37	0° Z	
max. Earth dist.	6863 Jul 01 14:20	13° B 13'56 5.92407 AU	morning rise	6868 Dec 30 21:21	1° Z 34'00	
morning rise	6863 Jul 13 14:32	16° B 08'36	retrograde	6869 Apr 30 00:59	18° Z 10'05	
	6863 Sep 15 04:08	0° Q	opposition	6869 Jun 29 22:37	13° Z 16'30	0°56'45
retrograde	6863 Nov 22 15:35	6° Q 51'51	min. Earth dist.	6869 Jun 30 21:44	13° Z 09'05	4.48506 AU
min. Earth dist.	6864 Jan 19 19:06	1° Q 58'59 3.95338 AU	direct	6869 Aug 31 15:15	8° Z 14'47	
opposition	6864 Jan 21 02:36	1° Q 48'16 -0°38'10	evening set	6870 Jan 04 04:41	25° Z 32'47	
	6864 Feb 03 17:20	30° R B	max. Earth dist.	6870 Jan 15 06:06	27° Z 56'14	6.45888 AU
direct	6864 Mar 19 00:48	26° B 52'40	conjunction	6870 Jan 17 01:22	28° Z 19'43	0°28'38
	6864 May 01 20:37	0° Q	minimum elong	6870 Jan 17 01:23	28° Z 19'43	0°28'41
	6864 Jul 16 20:34	15° Q		6870 Jan 24 18:14	0° A	
evening set	6864 Jul 23 14:03	16° Q 35'00	morning rise	6870 Jan 29 19:49	1° A 05'43	
conjunction	6864 Aug 06 05:42	19° Q 49'16 -0°10'04		6870 Apr 15 19:33	15° A	
minimum elong	6864 Aug 06 05:42	19° Q 49'16 0°10'06	retrograde	6870 May 30 18:13	17° A 57'55	
behind sun begin	6864 Aug 05 23:01	19° Q 45'19		6870 Jul 15 07:40	15° R A	
behind sun end	6864 Aug 06 12:23	19° Q 53'13	opposition	6870 Jul 30 17:28	13° A 05'27	0°23'43
max. Earth dist.	6864 Aug 08 15:10	20° Q 23'22 6.00478 AU	min. Earth dist.	6870 Aug 01 05:47	12° A 53'53	4.41415 AU
morning rise	6864 Aug 19 23:15	23° Q 04'15	direct	6870 Oct 01 07:58	8° A 04'41	
	6864 Sep 19 09:47	0° H		6870 Dec 12 11:47	15° A	
asc. node	6864 Dec 08 14:28	12° H 21'27	evening set	6871 Feb 03 17:23	25° A 44'50	
retrograde	6864 Dec 27 16:28	12° H 57'21	max. Earth dist.	6871 Feb 14 04:19	28° A 04'03	6.35211 AU
min. Earth dist.	6865 Feb 23 16:07	8° H 05'47 4.07380 AU	conjunction	6871 Feb 16 11:29	28° A 34'47	0°02'18
opposition	6865 Feb 25 05:56	7° H 52'56 0°09'25	minimum elong	6871 Feb 16 11:29	28° A 34'47	0°02'20
direct	6865 Apr 24 19:45	2° H 54'46	behind sun begin	6871 Feb 16 03:31	28° A 30'22	
evening set	6865 Aug 29 10:19	21° H 55'40	behind sun end	6871 Feb 16 19:27	28° A 39'12	
				6871 Feb 22 20:29	0° H	

morning rise	6871 Mar 01 04:22	1° Υ 24'20	opposition	6877 Mar 02 04:43	12° Υ 58'35	0°16'02
desc. node	6871 Mar 19 17:11	5° Υ 26'43	direct	6877 Apr 29 22:39	7° Υ 59'58	
retrograde	6871 Jul 02 08:26	19° Υ 02'15	evening set	6877 Sep 03 12:20	26° Υ 54'30	
opposition	6871 Sep 01 04:23	14° Υ 09'23 -0°17'36				
min. Earth dist.	6871 Sep 02 19:21	13° Υ 56'53 4.27740 AU	conjunction	6877 Sep 17 04:19	0° Ω 00'59	0°25'21
direct	6871 Nov 01 23:16	9° Υ 10'15	minimum elong	6877 Sep 17 04:18	0° Ω 00'58	0°25'22
evening set	6872 Mar 06 11:07	27° Υ 30'34		6877 Sep 17 02:36	0° Ω	
max. Earth dist.	6872 Mar 17 03:45	29° Υ 58'06 6.19582 AU	max. Earth dist.	6877 Sep 19 10:54	0° Ω 32'04	6.17589 AU
	6872 Mar 17 07:03	0° Υ	morning rise	6877 Sep 30 20:16	3° Ω 07'09	
			retrograde	6878 Feb 03 15:41	21° Ω 37'00	
conjunction	6872 Mar 19 05:15	0° Υ 26'40 -0°25'54	min. Earth dist.	6878 Apr 03 09:14	16° Ω 44'13	4.25848 AU
minimum elong	6872 Mar 19 05:14	0° Υ 26'39 0°25'54	opposition	6878 Apr 04 14:00	16° Ω 34'34	0°55'01
morning rise	6872 Mar 31 23:01	3° Υ 22'58	direct	6878 Jun 03 13:51	11° Ω 33'55	
retrograde	6872 Aug 05 11:53	22° Υ 09'54	evening set	6878 Oct 07 23:41	29° Ω 41'16	
opposition	6872 Oct 04 23:08	17° Υ 15'21 -0°56'24		6878 Oct 09 09:55	0° Ω	
min. Earth dist.	6872 Oct 06 04:46	17° Υ 05'45 4.11235 AU				
direct	6872 Dec 04 09:56	12° Υ 18'37	conjunction	6878 Oct 21 11:08	2° Ω 38'59	0°46'17
	6873 Apr 03 00:11	0° Υ	minimum elong	6878 Oct 21 11:07	2° Ω 38'58	0°46'19
evening set	6873 Apr 09 05:10	1° Υ 27'52	max. Earth dist.	6878 Oct 22 17:49	2° Ω 55'51	6.33612 AU
max. Earth dist.	6873 Apr 20 20:29	4° Υ 14'20 6.03613 AU	morning rise	6878 Nov 03 21:30	5° Ω 35'49	
				6878 Dec 19 21:22	15° Ω	
conjunction	6873 Apr 22 02:07	4° Υ 32'02 -0°46'54	retrograde	6879 Mar 06 14:28	23° Ω 01'26	
minimum elong	6873 Apr 22 02:06	4° Υ 32'01 0°46'56	opposition	6879 May 05 22:13	18° Ω 02'23	1°14'44
morning rise	6873 May 05 00:29	7° Υ 37'11	min. Earth dist.	6879 May 05 11:03	18° Ω 06'04	4.40133 AU
	6873 Jun 06 03:53	15° Υ		6879 May 30 20:00	15° Ω	
retrograde	6873 Sep 12 01:04	27° Υ 38'18	direct	6879 Jul 06 06:10	13° Ω 00'35	
opposition	6873 Nov 11 01:21	22° Υ 40'51 -1°17'46		6879 Aug 12 02:20	15° Ω	
min. Earth dist.	6873 Nov 11 09:24	22° Υ 38'12 3.97280 AU		6879 Nov 06 19:01	0° Υ	
direct	6874 Jan 09 01:24	17° Υ 46'10	evening set	6879 Nov 09 08:05	0° Υ 32'36	
	6874 Apr 12 17:39	0° Υ				
evening set	6874 May 15 06:00	7° Υ 35'59	conjunction	6879 Nov 22 13:52	3° Υ 23'22	0°52'48
			minimum elong	6879 Nov 22 13:52	3° Υ 23'22	0°52'52
conjunction	6874 May 28 09:25	10° Υ 47'57 -0°51'24	max. Earth dist.	6879 Nov 22 16:25	3° Υ 24'44	6.45114 AU
minimum elong	6874 May 28 09:25	10° Υ 47'57 0°51'28	morning rise	6879 Dec 05 17:18	6° Υ 12'57	
max. Earth dist.	6874 May 28 15:43	10° Υ 51'48 5.93033 AU	retrograde	6880 Apr 04 10:03	22° Υ 58'58	
morning rise	6874 Jun 10 15:06	14° Υ 01'20	opposition	6880 Jun 04 02:52	18° Υ 03'19	1°13'14
	6874 Aug 25 07:33	0° Υ	min. Earth dist.	6880 Jun 04 10:37	18° Υ 00'48	4.48208 AU
retrograde	6874 Oct 20 21:17	4° Υ 49'43	direct	6880 Aug 05 09:33	13° Υ 01'19	
	6874 Dec 18 01:03	30° Υ		6880 Dec 07 21:22	0° Υ	
opposition	6874 Dec 19 10:38	29° Υ 48'42 -1°09'00	evening set	6880 Dec 09 04:31	0° Υ 16'33	
min. Earth dist.	6874 Dec 18 18:38	29° Υ 54'05 3.91357 AU	max. Earth dist.	6880 Dec 21 02:24	2° Υ 49'31	6.49176 AU
direct	6875 Feb 15 11:31	24° Υ 54'27				
	6875 Apr 13 04:13	0° Υ	conjunction	6880 Dec 22 04:40	3° Υ 03'37	0°44'57
evening set	6875 Jun 21 23:02	14° Υ 56'26	minimum elong	6880 Dec 22 04:41	3° Υ 03'37	0°45'01
			morning rise	6881 Jan 04 02:32	5° Υ 49'34	
conjunction	6875 Jul 05 10:06	18° Υ 12'26 -0°35'24	retrograde	6881 May 04 07:25	22° Υ 25'40	
minimum elong	6875 Jul 05 10:08	18° Υ 12'27 0°35'28	opposition	6881 Jul 04 04:40	17° Υ 32'23	0°52'51
max. Earth dist.	6875 Jul 07 02:55	18° Υ 37'13 5.92345 AU	min. Earth dist.	6881 Jul 05 07:05	17° Υ 23'55	4.48105 AU
morning rise	6875 Jul 18 23:55	21° Υ 29'47	direct	6881 Sep 04 23:11	12° Υ 30'45	
	6875 Aug 24 19:32	0° Υ	evening set	6882 Jan 08 10:24	29° Υ 50'21	
retrograde	6875 Nov 27 21:07	12° Ω 10'54		6882 Jan 09 04:17	0° Υ	
min. Earth dist.	6876 Jan 24 21:19	7° Ω 18'44 3.96064 AU	max. Earth dist.	6882 Jan 19 07:49	2° Υ 12'02	6.44868 AU
opposition	6876 Jan 26 07:47	7° Ω 07'01 -0°31'50				
direct	6876 Mar 24 05:37	2° Ω 11'03	conjunction	6882 Jan 21 06:36	2° Υ 37'29	0°25'17
	6876 Jun 29 00:07	15° Ω	minimum elong	6882 Jan 21 06:37	2° Υ 37'29	0°25'20
evening set	6876 Jul 28 21:34	21° Ω 50'21	morning rise	6882 Feb 03 00:45	5° Υ 23'45	
				6882 Mar 22 16:36	15° Υ	
conjunction	6876 Aug 11 13:37	25° Ω 04'07 -0°05'30	retrograde	6882 Jun 04 04:13	22° Υ 20'33	
minimum elong	6876 Aug 11 13:37	25° Ω 04'07 0°05'32	opposition	6882 Aug 04 03:25	17° Υ 28'06	0°18'12
behind sun begin	6876 Aug 11 05:33	24° Ω 59'23	min. Earth dist.	6882 Aug 05 16:29	17° Υ 16'16	4.39835 AU
behind sun end	6876 Aug 11 21:40	25° Ω 08'52		6882 Aug 24 09:20	15° Υ	
max. Earth dist.	6876 Aug 13 23:46	25° Ω 38'31 6.01903 AU	direct	6882 Oct 05 15:24	12° Υ 27'29	
morning rise	6876 Aug 25 07:33	28° Ω 18'32		6882 Nov 16 16:38	15° Υ	
	6876 Sep 01 13:44	0° Υ	desc. node	6883 Jan 27 01:58	27° Υ 34'43	
asc. node	6876 Oct 17 21:44	9° Υ 55'17		6883 Feb 07 03:11	0° Υ	
retrograde	6877 Jan 01 14:20	18° Υ 03'04	evening set	6883 Feb 08 01:46	0° Υ 12'30	
min. Earth dist.	6877 Feb 28 15:12	13° Υ 11'21 4.09311 AU	max. Earth dist.	6883 Feb 18 13:20	2° Υ 32'41	6.33188 AU

conjunction	6883 Feb 20 19:50	3° H 03'11	-0°01'50	max. Earth dist.	6888 Aug 19 09:15	0° H 52'35	6.04111 AU
minimum elong	6883 Feb 20 19:51	3° H 03'12	0°01'48	asc. node	6888 Aug 27 08:52	2° H 44'59	
behind sun begin	6883 Feb 20 11:52	2° H 58'45		morning rise	6888 Aug 30 14:29	3° H 30'17	
behind sun end	6883 Feb 21 03:49	3° H 07'38		retrograde	6889 Jan 06 09:38	23° H 03'30	
morning rise	6883 Mar 05 12:33	5° H 53'32		min. Earth dist.	6889 Mar 05 11:50	18° H 11'45	4.11854 AU
retrograde	6883 Jul 07 03:06	23° H 40'12		opposition	6889 Mar 07 00:56	17° H 59'10	0°22'22
opposition	6883 Sep 05 21:42	18° H 47'15	-0°23'31	direct	6889 May 04 22:29	13° H 00'14	
min. Earth dist.	6883 Sep 07 12:47	18° H 34'43	4.25393 AU		6889 Aug 31 13:01	0° H	
direct	6883 Nov 06 12:41	13° H 48'29		evening set	6889 Sep 08 11:38	1° H 46'45	
	6884 Mar 01 03:13	0° Y					
evening set	6884 Mar 11 01:38	2° Y 15'56		conjunction	6889 Sep 22 02:57	4° H 51'48	0°29'01
max. Earth dist.	6884 Mar 21 18:40	4° Y 44'36	6.17094 AU	minimum elong	6889 Sep 22 02:55	4° H 51'47	0°29'02
				max. Earth dist.	6889 Sep 24 05:51	5° H 20'37	6.20220 AU
conjunction	6884 Mar 23 19:51	5° Y 13'09	-0°29'30	morning rise	6889 Oct 05 18:22	7° H 56'31	
minimum elong	6884 Mar 23 19:50	5° Y 13'08	0°29'31	retrograde	6890 Feb 08 00:35	26° H 15'16	
morning rise	6884 Apr 05 14:14	8° Y 10'43		min. Earth dist.	6890 Apr 07 22:56	21° H 22'04	4.28339 AU
retrograde	6884 Aug 10 14:57	27° Y 09'04		opposition	6890 Apr 09 01:22	21° H 13'13	0°58'59
opposition	6884 Oct 10 01:15	22° Y 14'11	-1°00'50	direct	6890 Jun 08 06:27	16° H 12'17	
min. Earth dist.	6884 Oct 11 04:01	22° Y 05'29	4.08805 AU		6890 Sep 22 21:35	0° H	
direct	6884 Dec 09 06:44	17° Y 17'48		evening set	6890 Oct 12 14:12	4° H 12'55	
	6885 Mar 16 15:49	0° B					
evening set	6885 Apr 14 03:58	6° B 34'38		conjunction	6890 Oct 26 01:01	7° H 09'25	0°48'03
max. Earth dist.	6885 Apr 26 01:47	9° B 25'42	6.01487 AU	minimum elong	6890 Oct 26 01:00	7° H 09'25	0°48'06
				max. Earth dist.	6890 Oct 27 04:33	7° H 24'31	6.35775 AU
conjunction	6885 Apr 27 01:48	9° B 40'07	-0°48'43	morning rise	6890 Nov 08 10:14	10° H 04'57	
minimum elong	6885 Apr 27 01:47	9° B 40'06	0°48'45		6890 Dec 01 14:12	15° H	
morning rise	6885 May 10 00:56	12° B 46'37		retrograde	6891 Mar 10 18:09	27° H 22'51	
	6885 May 19 10:01	15° B		opposition	6891 May 10 03:48	22° H 24'20	1°15'43
	6885 Aug 04 16:11	0° I		min. Earth dist.	6891 May 09 19:12	22° H 27'09	4.41819 AU
retrograde	6885 Sep 17 13:47	2° I 57'38		direct	6891 Jul 10 15:37	17° H 22'29	
	6885 Oct 31 20:16	30° R			6891 Oct 21 11:03	0° H	
opposition	6885 Nov 16 10:38	27° B 59'49	-1°18'30	evening set	6891 Nov 13 16:17	4° H 50'35	
min. Earth dist.	6885 Nov 16 15:59	27° B 58'03	3.95700 AU				
direct	6886 Jan 14 06:48	23° B 05'23		conjunction	6891 Nov 26 21:04	7° H 40'35	0°52'31
	6886 Mar 22 18:03	0° I		minimum elong	6891 Nov 26 21:04	7° H 40'35	0°52'34
evening set	6886 May 20 12:42	12° I 59'44		max. Earth dist.	6891 Nov 26 17:31	7° H 38'40	6.46192 AU
				morning rise	6891 Dec 09 23:48	10° H 29'27	
conjunction	6886 Jun 02 17:08	16° I 12'38	-0°50'20	retrograde	6892 Apr 08 13:37	27° H 12'19	
minimum elong	6886 Jun 02 17:09	16° I 12'39	0°50'23	opposition	6892 Jun 08 06:30	22° H 17'04	1°11'25
max. Earth dist.	6886 Jun 03 04:14	16° I 19'25	5.92170 AU	min. Earth dist.	6892 Jun 08 18:09	22° H 13'18	4.48635 AU
morning rise	6886 Jun 16 00:12	19° I 27'02		direct	6892 Aug 09 16:46	17° H 15'01	
	6886 Aug 01 03:50	0° E			6892 Nov 21 19:20	0° H	
retrograde	6886 Oct 26 08:10	10° E 18'16		evening set	6892 Dec 13 09:28	4° H 29'53	
opposition	6886 Dec 24 21:23	5° E 16'49	-1°05'09	max. Earth dist.	6892 Dec 25 03:54	7° H 01'07	6.48921 AU
min. Earth dist.	6886 Dec 24 00:59	5° E 23'42	3.91360 AU				
direct	6887 Feb 20 19:10	0° E 22'31		conjunction	6892 Dec 26 09:10	7° H 16'50	0°42'49
evening set	6887 Jun 27 08:56	20° E 23'15		minimum elong	6892 Dec 26 09:11	7° H 16'51	0°42'53
				morning rise	6893 Jan 08 06:18	10° H 02'40	
conjunction	6887 Jul 10 20:54	23° E 39'16	-0°31'43	retrograde	6893 May 08 11:24	26° H 40'22	
minimum elong	6887 Jul 10 20:55	23° E 39'17	0°31'46	opposition	6893 Jul 08 10:04	21° H 47'14	0°48'44
max. Earth dist.	6887 Jul 12 17:19	24° E 06'11	5.93215 AU	min. Earth dist.	6893 Jul 09 13:47	21° H 38'23	4.47201 AU
morning rise	6887 Jul 24 11:36	26° E 56'35		direct	6893 Sep 09 03:33	16° H 45'42	
	6887 Aug 06 08:12	0° O			6893 Dec 24 03:17	0° H	
	6887 Oct 24 03:24	15° O		evening set	6894 Jan 12 15:57	4° H 08'26	
retrograde	6887 Dec 03 02:18	17° O 31'39		max. Earth dist.	6894 Jan 23 11:12	6° H 29'26	6.43376 AU
	6888 Jan 11 23:17	15° R					
min. Earth dist.	6888 Jan 30 01:36	12° O 39'38	3.97681 AU	conjunction	6894 Jan 25 11:45	6° H 55'58	0°21'49
opposition	6888 Jan 31 13:19	12° O 27'28	-0°25'10	minimum elong	6894 Jan 25 11:46	6° H 55'58	0°21'52
direct	6888 Mar 29 13:59	7° O 31'07		morning rise	6894 Feb 07 05:36	9° H 42'43	
	6888 Jun 08 10:28	15° O			6894 Mar 04 05:17	15° H	
evening set	6888 Aug 03 04:16	27° O 04'07		retrograde	6894 Jun 08 16:44	26° H 45'41	
	6888 Aug 15 15:49	0° H		opposition	6894 Aug 08 14:44	21° H 53'16	0°12'34
				min. Earth dist.	6894 Aug 10 05:34	21° H 40'53	4.37836 AU
conjunction	6888 Aug 16 20:41	0° H 16'58	-0°00'52	direct	6894 Oct 10 01:18	16° H 52'52	
minimum elong	6888 Aug 16 20:42	0° H 16'59	0°00'54	desc. node	6894 Dec 06 20:52	21° H 32'30	
behind sun begin	6888 Aug 16 12:18	0° H 12'04			6895 Jan 21 17:53	0° H	
behind sun end	6888 Aug 17 05:06	0° H 21'54		evening set	6895 Feb 12 11:25	4° H 43'52	

max. Earth dist.	6895 Feb 22 21:38	7° K 04'06	6.30834 AU	conjunction	6900 Aug 23 00:49	5° M 21'40	0°03'45
				minimum elong	6900 Aug 23 00:48	5° M 21'40	0°03'44
conjunction	6895 Feb 25 05:22	7° K 35'27	-0°05'53	behind sun begin	6900 Aug 22 16:30	5° M 16'50	
minimum elong	6895 Feb 25 05:21	7° K 35'27	0°05'52	behind sun end	6900 Aug 23 09:06	5° M 26'30	
behind sun begin	6895 Feb 24 21:44	7° K 31'11		max. Earth dist.	6900 Aug 25 12:06	5° M 56'20	6.06339 AU
behind sun end	6895 Feb 25 12:59	7° K 39'43		morning rise	6900 Sep 05 18:42	8° M 33'55	
morning rise	6895 Mar 09 22:16	10° K 26'46		retrograde	6901 Jan 12 00:50	27° M 56'20	
retrograde	6895 Jul 11 23:05	28° K 23'23		min. Earth dist.	6901 Mar 11 06:04	23° M 04'33	4.14246 AU
opposition	6895 Sep 10 17:14	23° K 30'11	-0°29'21	opposition	6901 Mar 12 18:28	22° M 52'13	0°28'27
min. Earth dist.	6895 Sep 12 06:21	23° K 18'15	4.22854 AU	direct	6901 May 10 19:50	17° M 52'58	
direct	6895 Nov 11 03:17	18° K 31'44			6901 Aug 15 06:29	0° L	
	6896 Feb 12 18:42	0° Y		evening set	6901 Sep 14 08:17	6° L 32'26	
evening set	6896 Mar 15 18:22	7° Y 06'48					
max. Earth dist.	6896 Mar 26 15:58	9° Y 38'55	6.14597 AU	conjunction	6901 Sep 27 23:13	9° L 36'16	0°32'28
				minimum elong	6901 Sep 27 23:11	9° L 36'15	0°32'28
conjunction	6896 Mar 28 13:00	10° Y 05'12	-0°32'57	max. Earth dist.	6901 Sep 29 23:36	10° L 03'31	6.22587 AU
minimum elong	6896 Mar 28 12:58	10° Y 05'12	0°32'58	morning rise	6901 Oct 11 13:46	12° L 39'36	
morning rise	6896 Apr 10 07:43	13° Y 04'01			6902 Jan 21 20:26	0° M	
	6896 Jul 08 19:25	0° B		retrograde	6902 Feb 13 10:12	0° M 48'47	
retrograde	6896 Aug 15 22:14	2° B 13'31			6902 Mar 07 19:10	30° R L	
	6896 Sep 23 06:39	30° R Y		min. Earth dist.	6902 Apr 13 11:44	25° L 55'10	4.30480 AU
opposition	6896 Oct 15 05:43	27° Y 18'19	-1°04'51	opposition	6902 Apr 14 11:25	25° L 47'15	1°02'35
min. Earth dist.	6896 Oct 16 06:24	27° Y 10'16	4.06574 AU	direct	6902 Jun 13 21:29	20° L 46'12	
direct	6896 Dec 14 06:56	22° Y 22'17			6902 Sep 05 22:04	0° M	
	6897 Feb 24 17:08	0° B		evening set	6902 Oct 18 03:45	8° M 41'30	
evening set	6897 Apr 19 04:46	11° B 45'34					
max. Earth dist.	6897 May 01 07:11	14° B 40'04	5.99725 AU	conjunction	6902 Oct 31 13:40	11° M 36'58	0°49'33
				minimum elong	6902 Oct 31 13:39	11° M 36'57	0°49'36
conjunction	6897 May 02 03:17	14° B 52'10	-0°50'09	max. Earth dist.	6902 Nov 01 12:08	11° M 49'14	6.37522 AU
minimum elong	6897 May 02 03:16	14° B 52'10	0°50'12	morning rise	6902 Nov 13 22:07	14° M 31'28	
	6897 May 02 16:17	15° B			6902 Nov 16 02:53	15° M	
morning rise	6897 May 15 03:30	17° B 59'56			6903 Feb 10 11:09	0° J	
	6897 Jul 08 07:50	0° I		retrograde	6903 Mar 15 22:16	1° J 43'16	
retrograde	6897 Sep 23 00:03	8° I 18'51			6903 Apr 18 07:06	30° R M	
opposition	6897 Nov 21 20:41	3° I 20'29	-1°18'32	opposition	6903 May 15 09:13	26° M 45'15	1°16'19
min. Earth dist.	6897 Nov 21 21:07	3° I 20'20	3.94623 AU	min. Earth dist.	6903 May 15 03:35	26° M 47'06	4.43083 AU
	6897 Dec 19 14:55	30° R B		direct	6903 Jul 16 00:36	21° M 43'19	
direct	6898 Jan 19 11:44	28° B 26'12			6903 Oct 04 07:04	0° J	
	6898 Feb 19 04:11	0° I		evening set	6903 Nov 19 00:28	9° J 08'59	
evening set	6898 May 25 19:33	18° I 22'49					
				conjunction	6903 Dec 02 04:39	11° J 58'27	0°51'55
conjunction	6898 Jun 08 01:00	21° I 36'21	-0°48'49	minimum elong	6903 Dec 02 04:39	11° J 58'27	0°52'00
minimum elong	6898 Jun 08 01:01	21° I 36'21	0°48'53	max. Earth dist.	6903 Dec 01 22:17	11° J 55'02	6.46892 AU
max. Earth dist.	6898 Jun 08 17:37	21° I 46'30	5.91869 AU	morning rise	6903 Dec 15 06:24	14° J 46'43	
morning rise	6898 Jun 21 09:07	24° I 51'23			6904 Mar 13 17:24	0° B	
	6898 Jul 13 00:21	0° B		retrograde	6904 Apr 13 16:43	1° B 27'45	
retrograde	6898 Oct 31 17:52	15° B 42'53			6904 May 14 15:39	30° R J	
min. Earth dist.	6898 Dec 29 07:50	10° B 48'38	3.91862 AU	opposition	6904 Jun 13 11:07	26° J 32'56	1°09'12
opposition	6898 Dec 30 06:42	10° B 40'54	-1°00'44	min. Earth dist.	6904 Jun 14 00:52	26° J 28'30	4.48744 AU
direct	6899 Feb 26 04:56	5° B 46'23		direct	6904 Aug 14 22:50	21° J 31'00	
evening set	6899 Jul 02 17:03	25° B 44'02			6904 Nov 04 20:56	0° B	
				evening set	6904 Dec 18 15:28	8° B 46'25	
conjunction	6899 Jul 16 05:58	28° B 59'53	-0°27'48	max. Earth dist.	6904 Dec 30 04:46	11° B 15'13	6.48425 AU
minimum elong	6899 Jul 16 05:59	28° B 59'54	0°27'51				
max. Earth dist.	6899 Jul 18 07:14	29° B 29'37	5.94459 AU	conjunction	6904 Dec 31 14:24	11° B 33'18	0°40'26
	6899 Jul 20 09:35	0° L		minimum elong	6904 Dec 31 14:25	11° B 33'19	0°40'29
morning rise	6899 Jul 29 21:15	2° L 16'51		morning rise	6905 Jan 13 11:09	14° B 19'10	
	6899 Sep 25 21:02	15° L			6905 Apr 18 08:36	0° A	
retrograde	6899 Dec 08 04:55	22° L 44'23		retrograde	6905 May 13 19:43	0° A 59'23	
min. Earth dist.	6900 Feb 04 03:16	17° L 52'29	3.99518 AU		6905 Jun 08 05:32	30° R B	
opposition	6900 Feb 05 15:47	17° L 40'03	-0°18'26	opposition	6905 Jul 13 17:37	26° B 06'30	0°44'16
	6900 Feb 26 10:16	15° R L		min. Earth dist.	6905 Jul 14 23:59	25° B 56'47	4.46138 AU
direct	6900 Apr 04 18:17	12° L 43'24		direct	6905 Sep 14 11:48	21° B 05'07	
	6900 May 12 02:20	15° L			6905 Dec 07 07:21	0° A	
asc. node	6900 Jul 08 01:24	24° L 52'58		evening set	6906 Jan 17 22:57	8° A 31'19	
	6900 Jul 30 23:55	0° M		max. Earth dist.	6906 Jan 28 16:38	10° A 52'00	6.41835 AU
evening set	6900 Aug 09 08:24	2° M 09'49					

conjunction	6906 Jan 30 18:31	11° \approx 19'20	0°18'09	minimum elong	6911 Jul 22 10:03	4° Ω 08'45	0°23'53
minimum elong	6906 Jan 30 18:32	11° \approx 19'20	0°18'13	max. Earth dist.	6911 Jul 24 12:05	4° Ω 38'50	5.95887 AU
morning rise	6906 Feb 12 12:04	14° \approx 06'35		morning rise	6911 Aug 05 02:06	7° Ω 25'19	
	6906 Feb 16 14:20	15° \approx			6911 Sep 07 01:31	15° Ω	
	6906 May 16 09:42	0° \mathcal{H}		retrograde	6911 Dec 14 00:09	27° Ω 44'51	
retrograde	6906 Jun 14 05:10	1° \mathcal{H} 15'58		min. Earth dist.	6912 Feb 09 23:40	22° Ω 53'06	4.01347 AU
	6906 Jul 13 03:22	30° $\mathcal{R}\approx$		opposition	6912 Feb 11 12:58	22° Ω 40'23	-0°11'53
opposition	6906 Aug 14 03:51	26° \approx 23'34	0°06'43	direct	6912 Apr 09 17:24	17° Ω 43'20	
min. Earth dist.	6906 Aug 15 17:53	26° \approx 11'25	4.35934 AU	asc. node	6912 May 19 15:02	20° Ω 17'34	
direct	6906 Oct 15 10:53	21° \approx 23'30			6912 Jul 13 21:02	0° \mathcal{H}	
desc. node	6906 Oct 17 01:07	21° \approx 23'44		evening set	6912 Aug 14 07:30	7° \mathcal{H} 03'35	
	6907 Jan 04 09:37	0° \mathcal{H}					
evening set	6907 Feb 17 22:38	9° \mathcal{H} 20'06		conjunction	6912 Aug 28 00:04	10° \mathcal{H} 14'31	0°08'02
max. Earth dist.	6907 Feb 28 10:40	11° \mathcal{H} 42'02	6.28737 AU	minimum elong	6912 Aug 28 00:04	10° \mathcal{H} 14'30	0°08'01
				behind sun begin	6912 Aug 27 16:37	10° \mathcal{H} 10'12	
conjunction	6907 Mar 02 16:29	12° \mathcal{H} 12'29	-0°09'56	behind sun end	6912 Aug 28 07:30	10° \mathcal{H} 18'49	
minimum elong	6907 Mar 02 16:29	12° \mathcal{H} 12'28	0°09'56	max. Earth dist.	6912 Aug 30 10:30	10° \mathcal{H} 48'31	6.08408 AU
behind sun begin	6907 Mar 02 09:58	12° \mathcal{H} 08'49		morning rise	6912 Sep 10 17:40	13° \mathcal{H} 25'40	
behind sun end	6907 Mar 02 22:59	12° \mathcal{H} 16'08			6912 Dec 06 10:00	0° Ω	
morning rise	6907 Mar 15 09:25	15° \mathcal{H} 04'41		retrograde	6913 Jan 16 14:24	2° Ω 38'21	
	6907 Jun 01 15:55	0° \mathcal{Y}			6913 Feb 26 14:40	30° $\mathcal{R}\mathcal{H}$	
retrograde	6907 Jul 17 21:56	3° \mathcal{Y} 10'23		min. Earth dist.	6913 Mar 15 21:36	27° \mathcal{H} 46'03	4.16341 AU
	6907 Sep 02 22:25	30° $\mathcal{R}\mathcal{H}$		opposition	6913 Mar 17 07:40	27° \mathcal{H} 34'31	0°34'04
opposition	6907 Sep 16 14:15	28° \mathcal{H} 17'02	-0°35'06	direct	6913 May 15 14:04	22° \mathcal{H} 34'58	
min. Earth dist.	6907 Sep 18 02:43	28° \mathcal{H} 05'18	4.20714 AU		6913 Jul 27 03:39	0° Ω	
direct	6907 Nov 16 21:20	23° \mathcal{H} 18'59		evening set	6913 Sep 19 01:14	11° Ω 08'41	
	6908 Jan 24 13:55	0° \mathcal{Y}					
evening set	6908 Mar 21 11:30	12° \mathcal{Y} 00'01		conjunction	6913 Oct 02 15:40	14° Ω 11'27	0°35'34
max. Earth dist.	6908 Apr 01 11:50	14° \mathcal{Y} 34'27	6.12609 AU	minimum elong	6913 Oct 02 15:38	14° Ω 11'26	0°35'35
				max. Earth dist.	6913 Oct 04 12:55	14° Ω 36'49	6.24541 AU
conjunction	6908 Apr 03 06:23	14° \mathcal{Y} 59'23	-0°36'12	morning rise	6913 Oct 16 05:37	17° Ω 13'40	
minimum elong	6908 Apr 03 06:22	14° \mathcal{Y} 59'22	0°36'12		6913 Dec 19 13:19	0° \mathcal{M}	
morning rise	6908 Apr 16 01:42	17° \mathcal{Y} 59'17		retrograde	6914 Feb 17 15:23	5° \mathcal{M} 14'52	
	6908 Jun 11 05:02	0° \mathcal{B}		opposition	6914 Apr 18 18:24	0° \mathcal{M} 13'47	1°05'41
retrograde	6908 Aug 22 02:17	7° \mathcal{B} 17'59		min. Earth dist.	6914 Apr 17 20:28	0° \mathcal{M} 21'05	4.32168 AU
opposition	6908 Oct 21 09:39	2° \mathcal{B} 22'22	-1°08'21		6914 Apr 20 11:48	30° $\mathcal{R}\Omega$	
min. Earth dist.	6908 Oct 22 06:06	2° \mathcal{B} 15'41	4.04935 AU	direct	6914 Jun 18 07:35	25° Ω 12'33	
	6908 Nov 09 08:43	30° $\mathcal{R}\mathcal{Y}$			6914 Aug 15 13:20	0° \mathcal{M}	
direct	6908 Dec 20 05:11	27° \mathcal{Y} 26'40		evening set	6914 Oct 22 14:44	13° \mathcal{M} 04'03	
	6909 Jan 29 10:16	0° \mathcal{B}			6914 Oct 31 12:16	15° \mathcal{M}	
	6909 Apr 17 04:39	15° \mathcal{B}					
evening set	6909 Apr 25 04:22	16° \mathcal{B} 54'08		conjunction	6914 Nov 04 23:59	15° \mathcal{M} 58'42	0°50'43
				minimum elong	6914 Nov 04 23:58	15° \mathcal{M} 58'41	0°50'46
conjunction	6909 May 08 03:34	20° \mathcal{B} 01'35	-0°51'10	max. Earth dist.	6914 Nov 05 18:36	16° \mathcal{M} 08'50	6.38838 AU
minimum elong	6909 May 08 03:34	20° \mathcal{B} 01'34	0°51'13	morning rise	6914 Nov 18 07:30	18° \mathcal{M} 52'19	
max. Earth dist.	6909 May 07 12:58	19° \mathcal{B} 52'45	5.98591 AU		6915 Jan 13 19:54	0° \mathcal{X}	
morning rise	6909 May 21 04:36	23° \mathcal{B} 10'13		retrograde	6915 Mar 20 02:22	5° \mathcal{X} 59'29	
	6909 Jun 19 12:23	0° \mathcal{H}		opposition	6915 May 19 13:25	1° \mathcal{X} 01'58	1°16'29
retrograde	6909 Sep 29 07:57	13° \mathcal{H} 34'25		min. Earth dist.	6915 May 19 10:44	1° \mathcal{X} 02'51	4.43961 AU
opposition	6909 Nov 28 03:49	8° \mathcal{H} 35'30	-1°17'54		6915 May 27 12:23	30° $\mathcal{R}\mathcal{M}$	
min. Earth dist.	6909 Nov 28 01:22	8° \mathcal{H} 36'19	3.94120 AU	direct	6915 Jul 20 08:25	26° \mathcal{M} 00'02	
direct	6910 Jan 25 16:59	3° \mathcal{H} 41'16			6915 Sep 11 23:42	0° \mathcal{X}	
evening set	6910 May 31 23:12	23° \mathcal{H} 38'03		evening set	6915 Nov 23 07:26	13° \mathcal{X} 24'10	
conjunction	6910 Jun 14 05:44	26° \mathcal{H} 51'58	-0°46'57	conjunction	6915 Dec 06 10:49	16° \mathcal{X} 13'12	0°51'04
minimum elong	6910 Jun 14 05:45	26° \mathcal{H} 51'59	0°47'01	minimum elong	6915 Dec 06 10:50	16° \mathcal{X} 13'13	0°51'08
max. Earth dist.	6910 Jun 15 03:57	27° \mathcal{H} 05'31	5.92051 AU	max. Earth dist.	6915 Dec 05 23:51	16° \mathcal{X} 07'19	6.47270 AU
morning rise	6910 Jun 27 14:48	0° \mathcal{E} 07'22		morning rise	6915 Dec 19 11:58	19° \mathcal{X} 01'05	
	6910 Jun 27 02:38	0° \mathcal{E}			6916 Feb 14 03:13	0° \mathcal{Z}	
retrograde	6910 Nov 06 23:25	20° \mathcal{E} 56'53		retrograde	6916 Apr 17 20:37	5° \mathcal{Z} 41'08	
min. Earth dist.	6911 Jan 04 10:02	16° \mathcal{E} 03'00	3.92727 AU	opposition	6916 Jun 17 15:21	0° \mathcal{Z} 46'36	1°06'39
opposition	6911 Jan 05 11:07	15° \mathcal{E} 54'31	-0°55'58	min. Earth dist.	6916 Jun 18 07:24	0° \mathcal{Z} 41'26	4.48632 AU
direct	6911 Mar 04 08:50	10° \mathcal{E} 59'46			6916 Jun 23 16:33	30° $\mathcal{R}\mathcal{X}$	
	6911 Jul 05 03:15	0° Ω		direct	6916 Aug 19 04:30	25° \mathcal{X} 44'41	
evening set	6911 Jul 08 20:35	0° Ω 53'18			6916 Oct 14 01:07	0° \mathcal{Z}	
				evening set	6916 Dec 22 20:48	13° \mathcal{Z} 01'00	
conjunction	6911 Jul 22 10:02	4° Ω 08'45	-0°23'49	max. Earth dist.	6917 Jan 03 08:38	15° \mathcal{Z} 29'13	6.47836 AU

conjunction	6917 Jan 04 19:21	15°  47'56	0°37'50	conjunction	6922 Jun 19 10:59	2°  08'27	-0°44'42
minimum elong	6917 Jan 04 19:22	15°  47'56	0°37'53	minimum elong	6922 Jun 19 11:00	2°  08'27	0°44'46
morning rise	6917 Jan 17 15:24	18°  33'47		max. Earth dist.	6922 Jun 20 12:11	2°  23'49	5.91874 AU
	6917 Mar 17 20:27	0°  ≈		morning rise	6922 Jul 02 21:20	5°  24'28	
retrograde	6917 May 18 01:31	5°  ≈16'30		retrograde	6922 Nov 12 03:55	26°  21'38	
opposition	6917 Jul 18 00:36	0°  ≈23'45	0°39'35	opposition	6923 Jan 10 16:16	21°  21'05	-0°50'44
min. Earth dist.	6917 Jul 19 07:38	0°  ≈13'51	4.45107 AU	min. Earth dist.	6923 Jan 09 12:23	21°  20'18	3.93218 AU
	6917 Jul 21 03:04	30°  R 		direct	6923 Mar 09 13:12	16°  21'51	
direct	6917 Sep 18 17:41	25°  Z22'33			6923 Jun 17 19:45	0°  Ω	
	6917 Nov 15 21:38	0°  ≈		evening set	6923 Jul 14 02:13	6°  Ω07'06	
evening set	6918 Jan 22 05:20	12°  ≈51'46					
	6918 Jan 31 23:23	15°  ≈		conjunction	6923 Jul 27 16:33	9°  Ω22'23	-0°19'36
max. Earth dist.	6918 Feb 01 20:56	15°  ≈11'51	6.40412 AU	minimum elong	6923 Jul 27 16:34	9°  Ω22'24	0°19'40
				max. Earth dist.	6923 Jul 29 21:36	9°  Ω54'11	5.97006 AU
conjunction	6918 Feb 04 00:23	15°  ≈40'09	0°14'25	morning rise	6923 Aug 10 09:05	12°  Ω38'39	
minimum elong	6918 Feb 04 00:24	15°  ≈40'09	0°14'28		6923 Aug 20 09:03	15°  Ω	
behind sun begin	6918 Feb 03 20:44	15°  ≈38'09			6923 Nov 06 07:45	0°  Π	
behind sun end	6918 Feb 04 04:04	15°  ≈42'10		retrograde	6923 Dec 19 00:19	2°  Π51'21	
morning rise	6918 Feb 16 17:49	18°  ≈27'54			6924 Jan 30 15:10	30°  R  Ω	
	6918 Apr 15 23:12	0°  X		min. Earth dist.	6924 Feb 14 23:29	27°  Ω59'24	4.02946 AU
retrograde	6918 Jun 18 19:00	5°  X43'13		opposition	6924 Feb 16 12:17	27°  Ω46'52	-0°05'07
opposition	6918 Aug 18 16:27	0°  X50'44	0°00'53	asc. node	6924 Mar 29 17:57	23°  Ω15'54	
min. Earth dist.	6918 Aug 20 07:32	0°  X38'15	4.34170 AU	direct	6924 Apr 14 20:03	22°  Ω49'30	
	6918 Aug 25 07:52	30°  R  ≈			6924 Jun 23 14:25	0°  Π	
desc. node	6918 Aug 26 23:10	29°  ≈47'39		evening set	6924 Aug 19 09:46	12°  Π04'35	
direct	6918 Oct 19 22:08	25°  ≈50'51					
	6918 Dec 12 23:33	0°  X		conjunction	6924 Sep 02 02:22	15°  Π14'39	0°12'23
evening set	6919 Feb 22 08:22	13°  X52'23		minimum elong	6924 Sep 02 02:21	15°  Π14'39	0°12'22
max. Earth dist.	6919 Mar 04 21:00	16°  X15'18	6.26746 AU	behind sun begin	6924 Sep 01 20:58	15°  Π11'32	
				behind sun end	6924 Sep 02 07:45	15°  Π17'45	
conjunction	6919 Mar 07 02:16	16°  X45'32	-0°13'54	max. Earth dist.	6924 Sep 04 12:51	15°  Π48'30	6.10338 AU
minimum elong	6919 Mar 07 02:15	16°  X45'32	0°13'54	morning rise	6924 Sep 15 19:50	18°  Π24'50	
behind sun begin	6919 Mar 06 21:59	16°  X43'07			6924 Nov 09 16:15	0°  Ω	
behind sun end	6919 Mar 07 06:30	16°  X47'56		retrograde	6925 Jan 21 04:47	7°  Ω28'04	
morning rise	6919 Mar 19 19:16	19°  X38'35		opposition	6925 Mar 21 23:33	2°  Ω24'35	0°39'36
	6919 May 08 00:48	0°  Y		min. Earth dist.	6925 Mar 20 13:36	2°  Ω36'02	4.18431 AU
retrograde	6919 Jul 22 17:13	7°  Y53'05			6925 Apr 09 16:05	30°  R  Π	
opposition	6919 Sep 21 09:38	2°  Y59'29	-0°40'34	direct	6925 May 20 08:51	27°  Π24'48	
min. Earth dist.	6919 Sep 22 19:55	2°  Y48'27	4.18625 AU		6925 Jun 30 09:14	0°  Ω	
	6919 Oct 16 08:03	30°  R  X		evening set	6925 Sep 23 21:07	15°  Ω52'44	
direct	6919 Nov 21 11:27	28°  X01'45					
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evening set	6920 Mar 26 03:24	16°  Y48'54		minimum elong	6925 Oct 07 10:53	18°  Ω54'20	0°38'34
max. Earth dist.	6920 Apr 06 07:09	19°  Y26'01	6.10580 AU	max. Earth dist.	6925 Oct 09 04:46	19°  Ω17'44	6.26644 AU
				morning rise	6925 Oct 21 00:07	21°  Ω55'20	
conjunction	6920 Apr 07 22:36	19°  Y49'16	-0°39'09		6925 Nov 28 07:22	0°  Π	
minimum elong	6920 Apr 07 22:35	19°  Y49'15	0°39'11	retrograde	6926 Feb 22 01:12	9°  Π48'00	
morning rise	6920 Apr 20 18:27	22°  Y50'16		min. Earth dist.	6926 Apr 22 09:03	4°  Π53'47	4.34138 AU
	6920 May 22 09:47	0°  X		opposition	6926 Apr 23 04:11	4°  Π47'26	1°08'30
retrograde	6920 Aug 27 07:24	12°  X18'38			6926 Jun 10 19:51	30°  R  Ω	
opposition	6920 Oct 26 12:08	7°  X22'37	-1°11'22	direct	6926 Jun 22 22:36	29°  Ω46'05	
min. Earth dist.	6920 Oct 27 06:40	7°  X16'33	4.03134 AU		6926 Jul 05 02:13	0°  Π	
direct	6920 Dec 25 03:57	2°  X27'10			6926 Oct 15 06:17	15°  Π	
	6921 Mar 31 00:37	15°  X		evening set	6926 Oct 27 03:45	17°  Π32'32	
evening set	6921 Apr 30 03:08	21°  X59'53					
				conjunction	6926 Nov 09 12:13	20°  Π26'11	0°51'40
conjunction	6921 May 13 03:18	25°  X08'24	-0°51'49	minimum elong	6926 Nov 09 12:12	20°  Π26'11	0°51'43
minimum elong	6921 May 13 03:18	25°  X08'24	0°51'52	max. Earth dist.	6926 Nov 10 04:04	20°  Π34'48	6.40553 AU
max. Earth dist.	6921 May 12 17:31	25°  X02'28	5.97192 AU	morning rise	6926 Nov 22 18:46	23°  Π18'45	
morning rise	6921 May 26 05:19	28°  X18'09			6926 Dec 25 00:24	0°  X	
	6921 Jun 02 07:29	0°  Π		retrograde	6927 Mar 24 05:36	10°  X19'47	
retrograde	6921 Oct 04 16:11	18°  Π48'45		opposition	6927 May 23 18:47	5°  X22'42	1°16'17
opposition	6921 Dec 03 10:22	13°  Π49'25	-1°16'41	min. Earth dist.	6927 May 23 17:34	5°  X23'06	4.45340 AU
min. Earth dist.	6921 Dec 03 04:39	13°  Π51'19	3.93301 AU	direct	6927 Jul 24 16:15	0°  X20'43	
direct	6922 Jan 30 19:32	8°  Π55'18		evening set	6927 Nov 27 14:46	17°  X41'29	
evening set	6922 Jun 06 03:32	28°  Π53'56					
	6922 Jun 10 16:19	0°  Ω		conjunction	6927 Dec 10 17:22	20°  X29'50	0°49'59

minimum elong	6927 Dec 10 17:22	20° \mathbb{A} 29'51	0°50'03	minimum elong	6933 May 18 01:48	0° \mathbb{I} 11'39	0°52'08
max. Earth dist.	6927 Dec 10 03:45	20° \mathbb{A} 22'32	6.48230 AU	max. Earth dist.	6933 May 17 18:52	0° \mathbb{I} 07'27	5.95392 AU
morning rise	6927 Dec 23 17:34	23° \mathbb{A} 17'01		morning rise	6933 May 31 05:06	3° \mathbb{I} 22'48	
	6928 Jan 25 12:16	0° \mathbb{B}		retrograde	6933 Oct 09 23:18	24° \mathbb{I} 01'29	
retrograde	6928 Apr 21 23:30	9° \mathbb{B} 54'12		opposition	6933 Dec 08 16:00	19° \mathbb{I} 01'38	-1°14'57
opposition	6928 Jun 21 19:18	5° \mathbb{B} 00'00	1°03'50	min. Earth dist.	6933 Dec 08 06:46	19° \mathbb{I} 04'44	3.92043 AU
min. Earth dist.	6928 Jun 22 13:44	4° \mathbb{B} 54'04	4.49109 AU	direct	6934 Feb 04 21:54	14° \mathbb{I} 07'28	
	6928 Aug 18 21:31	30° \mathbb{R} \mathbb{A}			6934 May 24 22:35	0° \mathbb{G}	
direct	6928 Aug 23 10:49	29° \mathbb{A} 58'08		evening set	6934 Jun 11 08:24	4° \mathbb{G} 09'55	
	6928 Aug 28 00:07	0° \mathbb{B}					
evening set	6928 Dec 27 00:36	17° \mathbb{B} 13'15		conjunction	6934 Jun 24 17:13	7° \mathbb{G} 25'19	-0°42'08
max. Earth dist.	6929 Jan 07 07:37	19° \mathbb{B} 39'00	6.47779 AU	minimum elong	6934 Jun 24 17:14	7° \mathbb{G} 25'20	0°42'12
				max. Earth dist.	6934 Jun 26 00:16	7° \mathbb{G} 44'16	5.91309 AU
conjunction	6929 Jan 08 22:23	19° \mathbb{B} 59'55	0°35'08	morning rise	6934 Jul 08 04:37	10° \mathbb{G} 42'08	
minimum elong	6929 Jan 08 22:24	19° \mathbb{B} 59'55	0°35'12		6934 Oct 17 15:29	0° \mathbb{Q}	
morning rise	6929 Jan 21 18:01	22° \mathbb{B} 45'36		retrograde	6934 Nov 17 11:55	1° \mathbb{Q} 32'09	
	6929 Feb 26 00:17	0° \mathbb{A}			6934 Dec 18 03:48	30° \mathbb{R} \mathbb{G}	
retrograde	6929 May 22 06:36	9° \mathbb{A} 29'22		opposition	6935 Jan 15 22:13	26° \mathbb{G} 28'59	-0°45'09
opposition	6929 Jul 22 05:54	4° \mathbb{A} 36'39	0°34'51	min. Earth dist.	6935 Jan 14 16:48	26° \mathbb{G} 38'58	3.93410 AU
min. Earth dist.	6929 Jul 23 14:55	4° \mathbb{A} 26'07	4.44502 AU	direct	6935 Mar 14 18:58	21° \mathbb{G} 33'44	
	6929 Sep 06 11:08	30° \mathbb{R} \mathbb{B}			6935 May 29 03:01	0° \mathbb{Q}	
direct	6929 Sep 22 23:04	29° \mathbb{B} 35'28		evening set	6935 Jul 19 09:38	11° \mathbb{Q} 23'45	
	6929 Oct 09 12:29	0° \mathbb{A}					
	6930 Jan 16 15:31	15° \mathbb{A}		conjunction	6935 Aug 02 00:41	14° \mathbb{Q} 38'57	-0°15'14
evening set	6930 Jan 26 08:43	17° \mathbb{A} 06'20		minimum elong	6935 Aug 02 00:42	14° \mathbb{Q} 38'57	0°15'16
max. Earth dist.	6930 Feb 05 23:38	19° \mathbb{A} 26'21	6.39294 AU	behind sun begin	6935 Aug 01 22:19	14° \mathbb{Q} 37'32	
				behind sun end	6935 Aug 02 03:05	14° \mathbb{Q} 40'22	
conjunction	6930 Feb 08 03:35	19° \mathbb{A} 55'01	0°10'45		6935 Aug 03 11:56	15° \mathbb{Q}	
minimum elong	6930 Feb 08 03:35	19° \mathbb{A} 55'01	0°10'48	max. Earth dist.	6935 Aug 04 08:53	15° \mathbb{Q} 12'31	5.97922 AU
behind sun begin	6930 Feb 07 21:28	19° \mathbb{A} 51'39		morning rise	6935 Aug 15 17:55	17° \mathbb{Q} 55'02	
behind sun end	6930 Feb 08 09:42	19° \mathbb{A} 58'22			6935 Oct 10 02:28	0° \mathbb{P}	
morning rise	6930 Feb 20 20:35	22° \mathbb{A} 43'02		retrograde	6935 Dec 24 00:28	8° \mathbb{P} 01'09	
	6930 Mar 27 11:04	0° \mathbb{H}		asc. node	6936 Feb 07 12:42	4° \mathbb{P} 48'26	
retrograde	6930 Jun 23 03:31	10° \mathbb{H} 03'29		min. Earth dist.	6936 Feb 19 22:24	3° \mathbb{P} 09'44	4.04477 AU
desc. node	6930 Jul 09 05:11	9° \mathbb{H} 39'31		opposition	6936 Feb 21 13:01	2° \mathbb{P} 56'36	0°01'42
opposition	6930 Aug 23 01:46	5° \mathbb{H} 10'54	-0°04'45		6936 Mar 15 19:07	30° \mathbb{R} \mathbb{Q}	
min. Earth dist.	6930 Aug 24 17:02	4° \mathbb{H} 58'21	4.32584 AU	direct	6936 Apr 19 22:19	27° \mathbb{Q} 58'51	
direct	6930 Oct 24 04:21	0° \mathbb{H} 11'11			6936 May 25 05:58	0° \mathbb{P}	
evening set	6931 Feb 26 15:08	18° \mathbb{H} 17'17		evening set	6936 Aug 24 13:54	17° \mathbb{P} 08'46	
max. Earth dist.	6931 Mar 09 03:09	20° \mathbb{H} 40'31	6.24794 AU				
				conjunction	6936 Sep 07 06:19	20° \mathbb{P} 17'52	0°16'40
conjunction	6931 Mar 11 08:52	21° \mathbb{H} 11'10	-0°17'38	minimum elong	6936 Sep 07 06:18	20° \mathbb{P} 17'51	0°16'39
minimum elong	6931 Mar 11 08:51	21° \mathbb{H} 11'09	0°17'37	max. Earth dist.	6936 Sep 09 15:25	20° \mathbb{P} 50'46	6.12325 AU
morning rise	6931 Mar 24 02:08	24° \mathbb{H} 05'04		morning rise	6936 Sep 20 23:32	23° \mathbb{P} 26'57	
	6931 Apr 19 20:54	0° \mathbb{Y}			6936 Oct 20 14:32	0° \mathbb{L}	
retrograde	6931 Jul 27 11:51	12° \mathbb{Y} 28'34		retrograde	6937 Jan 25 21:24	12° \mathbb{L} 20'19	
opposition	6931 Sep 26 02:04	7° \mathbb{Y} 34'40	-0°45'36	min. Earth dist.	6937 Mar 25 08:37	7° \mathbb{L} 27'52	4.20642 AU
min. Earth dist.	6931 Sep 27 12:13	7° \mathbb{Y} 23'38	4.16411 AU	opposition	6937 Mar 26 16:48	7° \mathbb{L} 17'01	0°44'53
direct	6931 Nov 26 00:24	2° \mathbb{Y} 37'06		direct	6937 May 25 07:29	2° \mathbb{L} 16'53	
evening set	6932 Mar 30 16:22	21° \mathbb{Y} 31'01		evening set	6937 Sep 28 18:03	20° \mathbb{L} 38'20	
max. Earth dist.	6932 Apr 10 23:08	24° \mathbb{Y} 10'39	6.08298 AU				
				conjunction	6937 Oct 12 07:19	23° \mathbb{L} 38'44	0°41'16
conjunction	6932 Apr 12 12:11	24° \mathbb{Y} 32'35	-0°41'46	minimum elong	6937 Oct 12 07:17	23° \mathbb{L} 38'44	0°41'18
minimum elong	6932 Apr 12 12:10	24° \mathbb{Y} 32'34	0°41'48	max. Earth dist.	6937 Oct 13 23:52	24° \mathbb{L} 01'17	6.28879 AU
morning rise	6932 Apr 25 08:39	27° \mathbb{Y} 34'52		morning rise	6937 Oct 25 19:30	26° \mathbb{L} 38'22	
	6932 May 05 17:13	0° \mathbb{B}			6937 Nov 10 06:43	0° \mathbb{M}	
	6932 Jul 25 08:24	15° \mathbb{B}		retrograde	6938 Feb 26 09:06	14° \mathbb{M} 21'53	
retrograde	6932 Sep 01 09:03	17° \mathbb{B} 13'58		opposition	6938 Apr 27 14:25	9° \mathbb{M} 21'45	1°10'53
	6932 Oct 09 14:55	15° \mathbb{R} \mathbb{B}		min. Earth dist.	6938 Apr 26 20:30	9° \mathbb{M} 27'41	4.36195 AU
opposition	6932 Oct 31 12:22	12° \mathbb{B} 17'34	-1°13'51	direct	6938 Jun 27 12:13	4° \mathbb{M} 20'16	
min. Earth dist.	6932 Nov 01 04:25	12° \mathbb{B} 12'18	4.00994 AU		6938 Sep 27 18:13	15° \mathbb{M}	
direct	6932 Dec 29 22:27	7° \mathbb{B} 22'22		evening set	6938 Oct 31 17:14	22° \mathbb{M} 01'25	
	6933 Mar 11 19:20	15° \mathbb{B}					
evening set	6933 May 05 00:48	27° \mathbb{B} 01'54		conjunction	6938 Nov 14 00:42	24° \mathbb{M} 54'01	0°52'17
	6933 May 17 06:37	0° \mathbb{I}		minimum elong	6938 Nov 14 00:42	24° \mathbb{M} 54'01	0°52'21
				max. Earth dist.	6938 Nov 14 11:32	24° \mathbb{M} 59'53	6.42249 AU
conjunction	6933 May 18 01:48	0° \mathbb{I} 11'39	-0°52'04	morning rise	6938 Nov 27 06:21	27° \mathbb{M} 45'32	



































































































































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retrograde	6939 Mar 28 11:48	14°♏40'50		evening set	6945 May 10 05:14	2°♐21'51	
opposition	6939 May 28 01:11	9°♏44'13	1°15'38				
min. Earth dist.	6939 May 28 03:38	9°♏43'25	4.46551 AU	conjunction	6945 May 23 07:27	5°♐32'47	-0°51'55
direct	6939 Jul 29 02:59	4°♏42'12		minimum elong	6945 May 23 07:27	5°♐32'47	0°52'00
evening set	6939 Dec 01 22:39	22°♏00'16		max. Earth dist.	6945 May 23 07:22	5°♐32'44	5.94031 AU
max. Earth dist.	6939 Dec 14 06:52	24°♏38'37	6.48849 AU	morning rise	6945 Jun 05 11:46	8°♐45'04	
				retrograde	6945 Oct 15 13:18	29°♐29'29	
conjunction	6939 Dec 15 00:31	24°♏48'05	0°48'35	opposition	6945 Dec 14 03:23	24°♐29'09	-1°12'26
minimum elong	6939 Dec 15 00:32	24°♏48'05	0°48'39	min. Earth dist.	6945 Dec 13 15:20	24°♐33'12	3.91473 AU
morning rise	6939 Dec 27 23:55	27°♏34'44		direct	6946 Feb 10 06:46	19°♐35'02	
	6940 Jan 08 11:16	0°♑			6946 May 05 22:37	0°♑	
retrograde	6940 Apr 26 03:46	14°♑10'31		evening set	6946 Jun 16 18:02	9°♑38'09	
opposition	6940 Jun 26 00:53	9°♑16'36	1°00'35				
min. Earth dist.	6940 Jun 26 21:16	9°♑10'04	4.49113 AU	conjunction	6946 Jun 30 03:50	12°♑53'55	-0°39'07
direct	6940 Aug 27 16:34	4°♑14'48		minimum elong	6946 Jun 30 03:51	12°♑53'56	0°39'11
evening set	6940 Dec 31 06:29	21°♑30'30		max. Earth dist.	6946 Jul 01 15:39	13°♑15'44	5.91590 AU
max. Earth dist.	6941 Jan 11 11:19	23°♑55'18	6.47165 AU	morning rise	6946 Jul 13 16:27	16°♑11'06	
					6946 Sep 14 20:23	0°♒	
conjunction	6941 Jan 13 03:47	24°♑17'12	0°32'08	retrograde	6946 Nov 22 19:15	6°♒57'44	
minimum elong	6941 Jan 13 03:48	24°♑17'12	0°32'13	min. Earth dist.	6947 Jan 19 21:26	2°♒05'21	3.94537 AU
morning rise	6941 Jan 25 22:46	27°♑02'55		opposition	6947 Jan 21 06:14	1°♒54'13	-0°39'02
	6941 Feb 08 20:14	0°♓			6947 Feb 04 16:05	30°♓	
retrograde	6941 May 26 15:03	13°♓49'44		direct	6947 Mar 20 02:42	26°♓58'41	
opposition	6941 Jul 26 14:24	8°♓57'13	0°29'42		6947 May 02 04:51	0°♓	
min. Earth dist.	6941 Jul 28 01:21	8°♓46'04	4.43295 AU		6947 Jul 17 10:14	15°♓	
direct	6941 Sep 27 06:43	3°♓56'13		evening set	6947 Jul 24 18:24	16°♓43'44	
	6941 Dec 30 19:45	15°♓					
evening set	6942 Jan 30 16:07	21°♓30'52		conjunction	6947 Aug 07 09:52	19°♓58'15	-0°10'42
max. Earth dist.	6942 Feb 10 03:52	23°♓49'46	6.37565 AU	minimum elong	6947 Aug 07 09:53	19°♓58'15	0°10'45
				behind sun begin	6947 Aug 07 03:30	19°♓54'29	
conjunction	6942 Feb 12 10:33	24°♓20'04	0°06'51	behind sun end	6947 Aug 07 16:15	20°♓02'01	
minimum elong	6942 Feb 12 10:33	24°♓20'04	0°06'53	max. Earth dist.	6947 Aug 09 19:07	20°♓32'17	5.99770 AU
behind sun begin	6942 Feb 12 03:09	24°♓15'59		morning rise	6947 Aug 21 03:26	23°♓13'32	
behind sun end	6942 Feb 12 17:58	24°♓24'09			6947 Sep 19 19:39	0°♔	
morning rise	6942 Feb 25 03:35	27°♓08'45		asc. node	6947 Dec 18 00:20	12°♔57'26	
	6942 Mar 10 05:42	0°♕		retrograde	6947 Dec 28 22:59	13°♔09'26	
desc. node	6942 May 18 15:34	12°♕12'06		min. Earth dist.	6948 Feb 24 22:30	8°♔17'47	4.06811 AU
retrograde	6942 Jun 27 20:03	14°♕36'45		opposition	6948 Feb 26 12:38	8°♔04'48	0°08'26
opposition	6942 Aug 27 16:45	9°♕44'03	-0°10'42	direct	6948 Apr 25 02:32	3°♔06'36	
min. Earth dist.	6942 Aug 29 08:23	9°♕31'22	4.30425 AU	evening set	6948 Aug 29 15:59	22°♔08'39	
direct	6942 Oct 28 16:03	4°♕44'33					
evening set	6943 Mar 03 03:21	22°♕57'12		conjunction	6948 Sep 12 08:17	25°♔16'27	0°20'46
max. Earth dist.	6943 Mar 13 17:24	25°♕22'19	6.22380 AU	minimum elong	6948 Sep 12 08:16	25°♔16'26	0°20'46
				max. Earth dist.	6948 Sep 14 17:28	25°♔49'12	6.14934 AU
conjunction	6943 Mar 15 21:20	25°♕52'06	-0°21'30	morning rise	6948 Sep 26 00:49	28°♔24'04	
minimum elong	6943 Mar 15 21:19	25°♕52'06	0°21'30		6948 Oct 03 02:48	0°♕	
morning rise	6943 Mar 28 14:44	28°♕47'06		retrograde	6949 Jan 30 09:55	17°♕05'41	
	6943 Apr 02 22:58	0°♖		min. Earth dist.	6949 Mar 30 00:01	12°♕13'12	4.23267 AU
retrograde	6943 Aug 01 12:41	17°♖21'23		opposition	6949 Mar 31 07:08	12°♕02'44	0°49'41
opposition	6943 Oct 01 01:26	12°♖27'16	-0°50'43	direct	6949 May 30 01:41	7°♕02'21	
min. Earth dist.	6943 Oct 02 09:54	12°♖16'46	4.13929 AU	evening set	6949 Oct 03 11:33	25°♕16'15	
direct	6943 Nov 30 18:05	7°♖30'05					
evening set	6944 Apr 04 12:40	26°♖31'41		conjunction	6949 Oct 16 23:51	28°♕15'16	0°43'40
max. Earth dist.	6944 Apr 15 22:08	29°♖13'50	6.05959 AU	minimum elong	6949 Oct 16 23:50	28°♕15'15	0°43'42
				max. Earth dist.	6949 Oct 18 11:06	28°♕34'45	6.31293 AU
conjunction	6944 Apr 17 08:53	29°♖34'30	-0°44'16		6949 Oct 24 21:33	0°♗	
minimum elong	6944 Apr 17 08:51	29°♖34'29	0°44'18	morning rise	6949 Oct 30 11:17	1°♗13'30	
	6944 Apr 19 03:45	0°♘			6950 Jan 10 23:13	15°♗	
morning rise	6944 Apr 30 06:15	2°♘38'10		retrograde	6950 Mar 02 15:15	18°♗47'59	
	6944 Jun 26 06:15	15°♘			6950 Apr 22 18:37	15°♗	
retrograde	6944 Sep 06 17:51	22°♘28'11		opposition	6950 May 01 21:50	13°♗48'17	1°12'45
opposition	6944 Nov 05 19:46	17°♘31'22	-1°15'54	min. Earth dist.	6950 May 01 07:28	13°♗53'02	4.38221 AU
min. Earth dist.	6944 Nov 06 08:13	17°♘27'16	3.99034 AU	direct	6950 Jul 02 00:57	8°♗46'36	
	6944 Nov 25 23:08	15°♙			6950 Sep 07 21:13	15°♗	
direct	6945 Jan 04 01:15	12°♙36'24		evening set	6950 Nov 05 03:11	26°♗22'45	
	6945 Feb 11 13:02	15°♙					

conjunction	6950 Nov 18 09:58	29°♄14'26	0°52'35	retrograde	6956 Sep 12 06:15	27°♄46'28
minimum elong	6950 Nov 18 09:58	29°♄14'26	0°52'39	opposition	6956 Nov 11 05:21	22°♄49'13 -1°17'19
max. Earth dist.	6950 Nov 18 17:28	29°♄18'29	6.43742 AU	min. Earth dist.	6956 Nov 11 14:43	22°♄46'08 3.97459 AU
	6950 Nov 21 22:22	0°♄		direct	6957 Jan 09 06:52	17°♄54'34
morning rise	6950 Dec 01 14:32	2°♄04'59			6957 Apr 12 08:04	0°♄
retrograde	6951 Apr 01 13:16	18°♄55'30		evening set	6957 May 15 11:13	7°♄44'04
opposition	6951 Jun 01 04:58	13°♄59'18	1°14'36			
min. Earth dist.	6951 Jun 01 09:33	13°♄57'49	4.47436 AU	conjunction	6957 May 28 14:19	10°♄55'52 -0°51'19
direct	6951 Aug 02 08:29	8°♄57'17		minimum elong	6957 May 28 14:20	10°♄55'52 0°51'23
evening set	6951 Dec 06 04:23	26°♄13'45		max. Earth dist.	6957 May 28 18:55	10°♄58'40 5.93173 AU
max. Earth dist.	6951 Dec 18 07:08	28°♄49'14	6.49062 AU	morning rise	6957 Jun 10 19:55	14°♄09'07
					6957 Aug 24 17:23	0°♄
conjunction	6951 Dec 19 05:27	29°♄01'12	0°46'58	retrograde	6957 Oct 20 23:42	4°♄56'36
minimum elong	6951 Dec 19 05:28	29°♄01'12	0°47'02	opposition	6957 Dec 19 14:16	29°♄55'46 -1°09'14
	6951 Dec 23 19:04	0°♄		min. Earth dist.	6957 Dec 18 21:40	0°♄01'21 3.91456 AU
morning rise	6952 Jan 01 04:13	1°♄47'32			6957 Dec 19 01:39	30°♄
retrograde	6952 Apr 30 09:00	18°♄23'19		direct	6958 Feb 15 14:29	25°♄01'35
opposition	6952 Jun 30 05:31	13°♄29'43	0°57'05		6958 Apr 12 15:28	0°♄
min. Earth dist.	6952 Jul 01 05:27	13°♄22'02	4.48645 AU	evening set	6958 Jun 22 03:12	15°♄03'23
direct	6952 Aug 31 23:09	8°♄27'57				
evening set	6953 Jan 04 11:18	25°♄45'36		conjunction	6958 Jul 05 13:55	18°♄19'12 -0°35'46
max. Earth dist.	6953 Jan 15 11:57	28°♄08'34	6.46040 AU	minimum elong	6958 Jul 05 13:57	18°♄19'13 0°35'50
				max. Earth dist.	6958 Jul 07 05:39	18°♄43'21 5.92391 AU
conjunction	6953 Jan 17 08:09	28°♄32'32	0°29'01	morning rise	6958 Jul 19 03:25	21°♄36'23
minimum elong	6953 Jan 17 08:10	28°♄32'33	0°29'04		6958 Aug 24 10:45	0°♄
	6953 Jan 24 01:29	0°♄		retrograde	6958 Nov 28 01:01	12°♄17'36
morning rise	6953 Jan 30 02:51	1°♄18'34		min. Earth dist.	6959 Jan 25 02:06	7°♄25'16 3.96039 AU
	6953 Apr 14 11:17	15°♄		opposition	6959 Jan 26 11:57	7°♄13'45 -0°32'38
retrograde	6953 May 31 00:22	18°♄10'15		direct	6959 Mar 25 11:04	2°♄17'52
	6953 Jul 17 07:34	15°♄			6959 Jun 29 15:21	15°♄
opposition	6953 Jul 30 23:30	13°♄17'46	0°24'27	evening set	6959 Jul 30 00:43	21°♄57'01
min. Earth dist.	6953 Aug 01 11:17	13°♄06'20	4.41585 AU			
direct	6953 Oct 01 13:18	8°♄16'55		conjunction	6959 Aug 12 16:42	25°♄10'47 -0°06'09
	6953 Dec 11 13:40	15°♄		minimum elong	6959 Aug 12 16:43	25°♄10'47 0°06'12
evening set	6954 Feb 04 00:03	25°♄56'52		behind sun begin	6959 Aug 12 08:47	25°♄06'07
max. Earth dist.	6954 Feb 14 12:19	28°♄16'42	6.35402 AU	behind sun end	6959 Aug 13 00:39	25°♄15'27
				max. Earth dist.	6959 Aug 15 04:26	25°♄46'06 6.01820 AU
conjunction	6954 Feb 16 18:25	28°♄46'50	0°02'54	morning rise	6959 Aug 26 10:19	28°♄25'08
minimum elong	6954 Feb 16 18:26	28°♄46'50	0°02'56		6959 Sep 02 05:03	0°♄
behind sun begin	6954 Feb 16 10:30	28°♄42'26		asc. node	6959 Oct 27 13:02	11°♄35'27
behind sun end	6954 Feb 17 02:23	28°♄51'14		retrograde	6960 Jan 02 19:18	18°♄10'31
	6954 Feb 22 05:48	0°♄		min. Earth dist.	6960 Feb 29 19:41	13°♄18'54 4.09178 AU
morning rise	6954 Mar 01 11:16	1°♄36'20		opposition	6960 Mar 02 09:33	13°♄06'03 0°14'59
desc. node	6954 Mar 28 08:01	7°♄23'27		direct	6960 Apr 30 02:23	8°♄07'35
retrograde	6954 Jul 02 14:06	19°♄13'20		evening set	6960 Sep 03 15:40	27°♄02'12
opposition	6954 Sep 01 09:30	14°♄20'35	-0°16'39		6960 Sep 16 16:08	0°♄
min. Earth dist.	6954 Sep 03 01:10	14°♄07'52	4.27948 AU			
direct	6954 Nov 02 04:51	9°♄21'27		conjunction	6960 Sep 17 07:26	0°♄08'43 0°24'40
evening set	6955 Mar 07 17:48	27°♄41'35		minimum elong	6960 Sep 17 07:24	0°♄08'42 0°24'40
	6955 Mar 17 18:39	0°♄		max. Earth dist.	6960 Sep 19 13:01	0°♄39'14 6.17393 AU
max. Earth dist.	6955 Mar 18 08:23	0°♄07'56	6.19790 AU	morning rise	6960 Sep 30 23:34	3°♄15'01
				retrograde	6961 Feb 03 20:11	21°♄46'08
conjunction	6955 Mar 20 11:50	0°♄37'37	-0°25'16	opposition	6961 Apr 04 19:27	16°♄43'35 0°54'08
minimum elong	6955 Mar 20 11:49	0°♄37'36	0°25'16	min. Earth dist.	6961 Apr 03 14:36	16°♄53'16 4.25610 AU
morning rise	6955 Apr 02 05:47	3°♄33'52		direct	6961 Jun 03 18:51	11°♄42'58
retrograde	6955 Aug 06 15:47	22°♄19'39		evening set	6961 Oct 08 03:24	29°♄50'43
opposition	6955 Oct 06 03:29	17°♄25'12	-0°55'32		6961 Oct 08 20:23	0°♄
min. Earth dist.	6955 Oct 07 08:58	17°♄15'38	4.11435 AU			
direct	6955 Dec 05 14:53	12°♄28'24		conjunction	6961 Oct 21 15:08	2°♄48'36 0°45'47
	6956 Apr 02 13:44	0°♄		minimum elong	6961 Oct 21 15:07	2°♄48'36 0°45'50
evening set	6956 Apr 09 11:08	1°♄37'29		max. Earth dist.	6961 Oct 22 23:27	3°♄06'24 6.33352 AU
max. Earth dist.	6956 Apr 21 03:21	4°♄24'21	6.03809 AU	morning rise	6961 Nov 04 01:29	5°♄45'36
					6961 Dec 19 03:26	15°♄
conjunction	6956 Apr 22 08:10	4°♄41'34	-0°46'27	retrograde	6962 Mar 06 20:16	23°♄12'32
minimum elong	6956 Apr 22 08:09	4°♄41'33	0°46'29	opposition	6962 May 06 04:22	18°♄13'24 1°14'15
morning rise	6956 May 05 06:13	7°♄46'33		min. Earth dist.	6962 May 05 16:28	18°♄17'19 4.39861 AU
	6956 Jun 05 16:43	15°♄			6962 Jun 01 21:10	15°♄

direct	6962 Jul 06 11:09	13°♍11'41		conjunction	6968 Apr 27 07:07	9°♋48'09	-0°48'17
	6962 Aug 10 11:23	15°♍		minimum elong	6968 Apr 27 07:06	9°♋48'08	0°48'20
	6962 Nov 06 02:07	0°♌		morning rise	6968 May 10 06:07	12°♋54'12	
evening set	6962 Nov 09 12:58	0°♌44'13			6968 May 19 02:34	15°♋	
					6968 Aug 04 05:17	0°♊	
conjunction	6962 Nov 22 18:48	3°♌35'09	0°52'37	retrograde	6968 Sep 17 13:35	3°♊01'14	
minimum elong	6962 Nov 22 18:48	3°♌35'09	0°52'41		6968 Nov 01 10:20	30°♋	
max. Earth dist.	6962 Nov 22 20:22	3°♌36'00	6.44837 AU	opposition	6968 Nov 16 12:41	28°♋03'27	-1°18'05
morning rise	6962 Dec 05 22:41	6°♌24'58		min. Earth dist.	6968 Nov 16 17:24	28°♋01'54	3.96505 AU
retrograde	6963 Apr 05 18:00	23°♌12'11		direct	6969 Jan 14 09:23	23°♋08'57	
opposition	6963 Jun 05 09:39	18°♌16'24	1°13'12		6969 Mar 22 15:54	0°♊	
min. Earth dist.	6963 Jun 05 17:58	18°♌13'42	4.47942 AU	evening set	6969 May 20 14:56	13°♊00'14	
direct	6963 Aug 06 16:43	13°♌14'21					
	6963 Dec 08 01:35	0°♋		conjunction	6969 Jun 02 19:00	16°♊12'36	-0°50'19
evening set	6963 Dec 10 10:38	0°♋30'19		minimum elong	6969 Jun 02 19:00	16°♊12'37	0°50'23
max. Earth dist.	6963 Dec 22 10:12	3°♋04'11	6.48941 AU	max. Earth dist.	6969 Jun 03 05:07	16°♊18'47	5.92907 AU
				morning rise	6969 Jun 16 01:33	19°♊26'26	
conjunction	6963 Dec 23 11:12	3°♋17'36	0°45'04		6969 Aug 01 08:21	0°♑	
minimum elong	6963 Dec 23 11:13	3°♋17'36	0°45'09	retrograde	6969 Oct 26 07:01	10°♑14'26	
morning rise	6964 Jan 05 09:13	6°♋03'44		opposition	6969 Dec 24 21:06	5°♑13'02	-1°05'32
retrograde	6964 May 04 13:36	22°♋40'36		min. Earth dist.	6969 Dec 24 02:19	5°♑19'22	3.91908 AU
opposition	6964 Jul 04 11:35	17°♋47'13	0°53'14	direct	6970 Feb 20 21:25	0°♑18'41	
min. Earth dist.	6964 Jul 05 12:43	17°♋39'10	4.47927 AU	evening set	6970 Jun 27 08:00	20°♑17'26	
direct	6964 Sep 05 04:32	12°♋45'36					
evening set	6965 Jan 08 17:51	0°♎05'52		conjunction	6970 Jul 10 19:42	23°♑33'09	-0°32'15
	6965 Jan 08 06:57	0°♎		minimum elong	6970 Jul 10 19:44	23°♑33'10	0°32'18
max. Earth dist.	6965 Jan 19 16:12	2°♎28'04	6.44777 AU	max. Earth dist.	6970 Jul 12 16:03	24°♑00'00	5.93513 AU
				morning rise	6970 Jul 24 09:54	26°♑50'07	
conjunction	6965 Jan 21 14:13	2°♎53'06	0°25'40		6970 Aug 06 17:42	0°♏	
minimum elong	6965 Jan 21 14:14	2°♎53'07	0°25'43		6970 Oct 25 00:59	15°♏	
morning rise	6965 Feb 03 08:32	5°♎39'30		retrograde	6970 Dec 03 01:43	17°♏24'37	
	6965 Mar 21 12:57	15°♎			6971 Jan 10 22:29	15°♏♏	
retrograde	6965 Jun 04 12:32	22°♎36'24		min. Earth dist.	6971 Jan 30 01:39	12°♏32'25	3.97704 AU
opposition	6965 Aug 04 10:39	17°♎44'00	0°18'54	opposition	6971 Jan 31 12:30	12°♏20'34	-0°26'16
min. Earth dist.	6965 Aug 06 00:12	17°♎32'01	4.39856 AU	direct	6971 Mar 30 12:52	7°♏24'22	
	6965 Aug 27 02:55	15°♏			6971 Jun 09 23:52	15°♏	
direct	6965 Oct 05 23:30	12°♎43'24		evening set	6971 Aug 04 02:24	26°♏57'25	
	6965 Nov 14 15:26	15°♎					
desc. node	6966 Feb 04 04:02	29°♎32'19		conjunction	6971 Aug 17 18:28	0°♏10'16	-0°01'44
	6966 Feb 06 06:16	0°♏		minimum elong	6971 Aug 17 18:28	0°♏10'17	0°01'46
evening set	6966 Feb 08 09:49	0°♏28'31		behind sun begin	6971 Aug 17 10:04	0°♏05'21	
max. Earth dist.	6966 Feb 18 20:42	2°♏48'18	6.33345 AU	behind sun end	6971 Aug 18 02:53	0°♏15'12	
					6971 Aug 17 00:59	0°♏	
conjunction	6966 Feb 21 04:01	3°♏19'14	-0°01'16	max. Earth dist.	6971 Aug 20 04:48	0°♏44'36	6.03844 AU
minimum elong	6966 Feb 21 04:00	3°♏19'14	0°01'13	morning rise	6971 Aug 31 12:20	3°♏23'43	
behind sun begin	6966 Feb 20 20:01	3°♏14'47		asc. node	6971 Sep 07 16:30	5°♏03'34	
behind sun end	6966 Feb 21 11:58	3°♏23'40		retrograde	6972 Jan 07 09:15	22°♏59'05	
morning rise	6966 Mar 05 20:57	6°♏09'34		min. Earth dist.	6972 Mar 05 12:24	18°♏07'20	4.11351 AU
retrograde	6966 Jul 07 08:57	23°♏55'14		opposition	6972 Mar 07 01:27	17°♏54'45	0°21'08
opposition	6966 Sep 06 04:09	19°♏02'17	-0°22'37	direct	6972 May 04 21:44	12°♏55'55	
min. Earth dist.	6966 Sep 07 17:58	18°♏50'09	4.25722 AU		6972 Aug 31 17:11	0°♏	
direct	6966 Nov 06 19:09	14°♏03'29		evening set	6972 Sep 08 10:58	1°♏44'14	
	6967 Mar 01 09:38	0°♏					
evening set	6967 Mar 12 09:16	2°♏30'00		conjunction	6972 Sep 22 02:31	4°♏49'40	0°28'15
max. Earth dist.	6967 Mar 23 04:15	4°♏59'35	6.17600 AU	minimum elong	6972 Sep 22 02:30	4°♏49'39	0°28'15
				max. Earth dist.	6972 Sep 24 05:51	5°♏18'46	6.19548 AU
conjunction	6967 Mar 25 03:35	5°♏27'02	-0°28'54	morning rise	6972 Oct 05 17:57	7°♏54'44	
minimum elong	6967 Mar 25 03:34	5°♏27'01	0°28'55	retrograde	6973 Feb 08 05:06	26°♏16'49	
morning rise	6967 Apr 06 21:45	8°♏24'19		min. Earth dist.	6973 Apr 08 02:10	21°♏23'33	4.27564 AU
retrograde	6967 Aug 11 20:23	27°♏19'57		opposition	6973 Apr 09 04:26	21°♏14'46	0°58'06
opposition	6967 Oct 11 06:06	22°♏25'11	-0°59'59	direct	6973 Jun 08 08:20	16°♏14'00	
min. Earth dist.	6967 Oct 12 09:38	22°♏16'14	4.09475 AU		6973 Sep 22 16:34	0°♏	
direct	6967 Dec 10 13:41	17°♏28'45		evening set	6973 Oct 12 16:14	4°♏17'00	
	6968 Mar 16 04:43	0°♏					
evening set	6968 Apr 14 09:36	6°♏43'08		conjunction	6973 Oct 26 03:11	7°♏13'57	0°47'35
max. Earth dist.	6968 Apr 26 05:45	9°♏32'57	6.02258 AU	minimum elong	6973 Oct 26 03:10	7°♏13'56	0°47'37
				max. Earth dist.	6973 Oct 27 06:39	7°♏29'01	6.34959 AU

morning rise	6973 Nov 08 12:52	10° \mathbb{M} 09'59			6980 Feb 25 15:42	0° \mathcal{B}	
	6973 Dec 01 06:03	15° \mathbb{M}		evening set	6980 Apr 19 06:39	11° \mathcal{B} 45'34	
retrograde	6974 Mar 10 24:00	27° \mathbb{M} 31'07		max. Earth dist.	6980 May 01 08:19	14° \mathcal{B} 39'17	6.00612 AU
opposition	6974 May 10 09:11	22° \mathbb{M} 32'28	1°15'19				
min. Earth dist.	6974 May 10 00:00	22° \mathbb{M} 35'30	4.41046 AU	conjunction	6980 May 02 04:53	14° \mathcal{B} 51'39	-0°49'44
direct	6974 Jul 10 19:21	17° \mathbb{M} 30'41		minimum elong	6980 May 02 04:52	14° \mathcal{B} 51'38	0°49'48
	6974 Oct 20 19:55	0° \mathcal{A}			6980 May 02 18:46	15° \mathcal{B}	
evening set	6974 Nov 13 20:56	5° \mathcal{A} 01'00		morning rise	6980 May 15 04:41	17° \mathcal{B} 58'50	
					6980 Jul 08 14:23	0° \mathbb{I}	
conjunction	6974 Nov 27 02:12	7° \mathcal{A} 51'25	0°52'21	retrograde	6980 Sep 22 21:44	8° \mathbb{I} 13'47	
minimum elong	6974 Nov 27 02:12	7° \mathcal{A} 51'25	0°52'25	opposition	6980 Nov 21 18:59	3° \mathbb{I} 15'30	-1°18'14
max. Earth dist.	6974 Nov 27 01:14	7° \mathcal{A} 50'54	6.45538 AU	min. Earth dist.	6980 Nov 21 21:15	3° \mathbb{I} 14'45	3.95337 AU
morning rise	6974 Dec 10 05:06	10° \mathcal{A} 40'39			6980 Dec 18 17:23	30° \mathcal{R} \mathcal{B}	
retrograde	6975 Apr 09 20:27	27° \mathcal{A} 25'45		direct	6981 Jan 19 12:45	28° \mathcal{B} 21'08	
opposition	6975 Jun 09 13:26	22° \mathcal{A} 30'26	1°11'26		6981 Feb 20 01:12	0° \mathbb{I}	
min. Earth dist.	6975 Jun 09 23:38	22° \mathcal{A} 27'08	4.48140 AU	evening set	6981 May 25 18:07	18° \mathbb{I} 15'23	
direct	6975 Aug 10 22:11	17° \mathcal{A} 28'29					
	6975 Nov 21 21:09	0° \mathcal{B}		conjunction	6981 Jun 07 23:18	21° \mathbb{I} 28'32	-0°48'56
evening set	6975 Dec 14 16:25	4° \mathcal{B} 44'44		minimum elong	6981 Jun 07 23:19	21° \mathbb{I} 28'32	0°49'00
max. Earth dist.	6975 Dec 26 11:00	7° \mathcal{B} 16'10	6.48625 AU	max. Earth dist.	6981 Jun 08 14:40	21° \mathbb{I} 37'54	5.92338 AU
				morning rise	6981 Jun 21 06:58	24° \mathbb{I} 43'08	
conjunction	6975 Dec 27 16:13	7° \mathcal{B} 31'53	0°42'58		6981 Jul 13 12:58	0° \mathcal{E}	
minimum elong	6975 Dec 27 16:14	7° \mathcal{B} 31'54	0°43'02	retrograde	6981 Oct 31 15:07	15° \mathcal{E} 32'49	
morning rise	6976 Jan 09 13:48	10° \mathcal{B} 17'58		min. Earth dist.	6981 Dec 29 05:55	10° \mathcal{E} 38'20	3.92029 AU
retrograde	6976 May 08 20:25	26° \mathcal{B} 56'27		opposition	6981 Dec 30 03:32	10° \mathcal{E} 31'02	-1°01'21
opposition	6976 Jul 08 17:44	22° \mathcal{B} 03'18	0°49'07	direct	6982 Feb 26 02:06	5° \mathcal{E} 36'33	
min. Earth dist.	6976 Jul 09 21:24	21° \mathcal{B} 54'27	4.47123 AU	evening set	6982 Jul 02 14:05	25° \mathcal{E} 34'01	
direct	6976 Sep 09 11:46	17° \mathcal{B} 01'47					
	6976 Dec 23 03:15	0° \approx		conjunction	6982 Jul 16 02:30	28° \mathcal{E} 49'45	-0°28'27
evening set	6977 Jan 12 23:36	4° \approx 24'38		minimum elong	6982 Jul 16 02:32	28° \mathcal{E} 49'45	0°28'30
max. Earth dist.	6977 Jan 23 20:24	6° \approx 46'25	6.43535 AU	max. Earth dist.	6982 Jul 18 00:27	29° \mathcal{E} 17'30	5.94285 AU
					6982 Jul 20 22:52	0° \mathcal{Q}	
conjunction	6977 Jan 25 19:42	7° \approx 12'13	0°22'12	morning rise	6982 Jul 29 17:41	2° \mathcal{Q} 06'43	
minimum elong	6977 Jan 25 19:43	7° \approx 12'13	0°22'15		6982 Sep 26 13:50	15° \mathcal{Q}	
morning rise	6977 Feb 07 13:39	9° \approx 58'58		retrograde	6982 Dec 08 01:49	22° \mathcal{Q} 35'50	
	6977 Mar 03 05:52	15° \approx		min. Earth dist.	6983 Feb 04 01:40	17° \mathcal{Q} 43'55	3.99034 AU
retrograde	6977 Jun 08 22:22	27° \approx 01'02		opposition	6983 Feb 05 13:54	17° \mathcal{Q} 31'34	-0°19'39
opposition	6977 Aug 08 21:29	22° \approx 08'36	0°13'17		6983 Feb 25 03:07	15° \mathcal{R} \mathcal{Q}	
min. Earth dist.	6977 Aug 10 10:31	21° \approx 56'47	4.38241 AU	direct	6983 Apr 04 15:30	12° \mathcal{Q} 34'59	
direct	6977 Oct 10 07:23	17° \approx 08'14			6983 May 13 03:40	15° \mathcal{Q}	
desc. node	6977 Dec 14 18:03	22° \approx 58'42		asc. node	6983 Jul 18 14:03	27° \mathcal{Q} 05'34	
	6978 Jan 20 21:39	0° \mathcal{H}			6983 Jul 31 09:11	0° \mathbb{P}	
evening set	6978 Feb 12 18:39	4° \mathcal{H} 57'56		evening set	6983 Aug 09 06:04	2° \mathbb{P} 03'24	
max. Earth dist.	6978 Feb 23 06:30	7° \mathcal{H} 18'52	6.31460 AU				
				conjunction	6983 Aug 22 22:31	5° \mathbb{P} 15'34	0°02'53
conjunction	6978 Feb 25 12:39	7° \mathcal{H} 49'18	-0°05'18	minimum elong	6983 Aug 22 22:32	5° \mathbb{P} 15'35	0°02'52
minimum elong	6978 Feb 25 12:38	7° \mathcal{H} 49'17	0°05'17	behind sun begin	6983 Aug 22 14:10	5° \mathbb{P} 10'42	
behind sun begin	6978 Feb 25 04:56	7° \mathcal{H} 44'59		behind sun end	6983 Aug 23 06:54	5° \mathbb{P} 20'28	
behind sun end	6978 Feb 25 20:21	7° \mathcal{H} 53'36		max. Earth dist.	6983 Aug 25 09:40	5° \mathbb{P} 50'14	6.05612 AU
morning rise	6978 Mar 10 05:31	10° \mathcal{H} 40'22		morning rise	6983 Sep 05 16:17	8° \mathbb{P} 28'09	
retrograde	6978 Jul 12 04:04	28° \mathcal{H} 34'11		retrograde	6984 Jan 12 03:59	27° \mathbb{P} 54'23	
opposition	6978 Sep 10 21:47	23° \mathcal{H} 41'05	-0°28'24	min. Earth dist.	6984 Mar 10 08:12	23° \mathbb{P} 02'20	4.13359 AU
min. Earth dist.	6978 Sep 12 11:45	23° \mathcal{H} 28'54	4.23654 AU	opposition	6984 Mar 11 19:48	22° \mathbb{P} 50'16	0°27'16
direct	6978 Nov 11 10:19	18° \mathcal{H} 42'35		direct	6984 May 09 20:46	17° \mathbb{P} 51'09	
	6979 Feb 12 06:24	0° \mathcal{Y}			6984 Aug 14 06:41	0° \mathcal{L}	
evening set	6979 Mar 16 23:30	7° \mathcal{Y} 15'02		evening set	6984 Sep 13 08:57	6° \mathcal{L} 33'35	
max. Earth dist.	6979 Mar 27 19:47	9° \mathcal{Y} 46'06	6.15502 AU				
				conjunction	6984 Sep 27 00:01	9° \mathcal{L} 37'54	0°31'45
conjunction	6979 Mar 29 18:00	10° \mathcal{Y} 13'01	-0°32'20	minimum elong	6984 Sep 26 24:00	9° \mathcal{L} 37'53	0°31'46
minimum elong	6979 Mar 29 17:59	10° \mathcal{Y} 13'00	0°32'20	max. Earth dist.	6984 Sep 29 01:18	10° \mathcal{L} 05'42	6.21630 AU
morning rise	6979 Apr 11 12:40	13° \mathcal{Y} 11'24		morning rise	6984 Oct 10 14:54	12° \mathcal{L} 41'47	
	6979 Jul 09 07:49	0° \mathcal{B}			6985 Jan 19 16:37	0° \mathbb{M}	
retrograde	6979 Aug 16 21:33	2° \mathcal{B} 16'43		retrograde	6985 Feb 12 14:22	0° \mathbb{M} 54'52	
	6979 Sep 24 19:30	30° \mathcal{R} \mathcal{Y}			6985 Mar 08 09:23	30° \mathcal{R} \mathcal{L}	
opposition	6979 Oct 16 06:55	27° \mathcal{Y} 21'36	-1°03'58	opposition	6985 Apr 13 15:50	25° \mathcal{L} 53'14	1°01'48
min. Earth dist.	6979 Oct 17 07:03	27° \mathcal{Y} 13'44	4.07516 AU	min. Earth dist.	6985 Apr 12 14:41	26° \mathcal{L} 01'38	4.29580 AU
direct	6979 Dec 15 08:51	22° \mathcal{Y} 25'28		direct	6985 Jun 12 23:24	20° \mathcal{L} 52'17	

	6985 Sep 04 09:36	0°♄		opposition	6990 Sep 15 11:53	28°♄10'46 -0°33'47
evening set	6985 Oct 17 07:34	8°♄50'07		min. Earth dist.	6990 Sep 17 00:37	27°♄58'57 4.21678 AU
				direct	6990 Nov 15 19:40	23°♄12'29
conjunction	6985 Oct 30 17:45	11°♄45'59 0°49'09			6991 Jan 24 06:10	0°♄
minimum elong	6985 Oct 30 17:44	11°♄45'58 0°49'12		evening set	6991 Mar 21 10:18	11°♄50'51
max. Earth dist.	6985 Oct 31 18:10	11°♄59'20 6.36795 AU		max. Earth dist.	6991 Apr 01 08:44	14°♄23'54 6.13358 AU
morning rise	6985 Nov 13 02:23	14°♄40'52				
	6985 Nov 14 13:42	15°♄		conjunction	6991 Apr 03 05:02	14°♄49'49 -0°35'24
	6986 Feb 07 19:45	0°♄		minimum elong	6991 Apr 03 05:00	14°♄49'48 0°35'24
retrograde	6986 Mar 15 06:05	1°♄55'08		morning rise	6991 Apr 16 00:09	17°♄49'18
	6986 Apr 19 13:19	30°♄♄			6991 Jun 12 04:12	0°♄
opposition	6986 May 14 15:57	26°♄57'01 1°16'00		retrograde	6991 Aug 21 22:19	7°♄04'54
min. Earth dist.	6986 May 14 09:21	26°♄59'11 4.42601 AU		opposition	6991 Oct 21 04:38	2°♄09'26 -1°07'24
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evening set	6986 Nov 18 06:15	9°♄21'40		direct	6991 Dec 20 02:44	27°♄13'31
					6992 Jan 31 01:41	0°♄
conjunction	6986 Dec 01 10:34	12°♄11'17 0°51'51			6992 Apr 17 00:39	15°♄
minimum elong	6986 Dec 01 10:34	12°♄11'17 0°51'56		evening set	6992 Apr 24 01:10	16°♄40'26
max. Earth dist.	6986 Dec 01 05:21	12°♄08'29 6.46707 AU		max. Earth dist.	6992 May 06 07:10	19°♄37'27 5.98652 AU
morning rise	6986 Dec 14 12:43	14°♄59'45				
	6987 Mar 11 15:58	0°♄		conjunction	6992 May 07 00:18	19°♄47'48 -0°50'48
retrograde	6987 Apr 13 23:46	1°♄41'04		minimum elong	6992 May 07 00:18	19°♄47'47 0°50'51
	6987 May 17 07:20	30°♄♄		morning rise	6992 May 20 01:06	22°♄56'19
opposition	6987 Jun 13 18:04	26°♄46'03 1°09'20			6992 Jun 19 09:44	0°♄
min. Earth dist.	6987 Jun 14 06:33	26°♄42'02 4.48878 AU		retrograde	6992 Sep 28 03:33	13°♄20'23
direct	6987 Aug 15 05:23	21°♄44'04		opposition	6992 Nov 26 22:46	8°♄21'43 -1°17'51
	6987 Nov 03 22:59	0°♄		min. Earth dist.	6992 Nov 26 21:56	8°♄22'00 3.93797 AU
evening set	6987 Dec 18 21:27	8°♄58'29		direct	6993 Jan 24 11:18	3°♄27'29
				evening set	6993 May 30 20:33	23°♄26'38
conjunction	6987 Dec 31 20:41	11°♄45'17 0°40'42				
minimum elong	6987 Dec 31 20:43	11°♄45'17 0°40'45		conjunction	6993 Jun 13 02:47	26°♄40'48 -0°47'12
max. Earth dist.	6987 Dec 30 14:07	11°♄28'51 6.48881 AU		minimum elong	6993 Jun 13 02:48	26°♄40'48 0°47'17
morning rise	6988 Jan 13 17:23	14°♄30'58		max. Earth dist.	6993 Jun 13 21:18	26°♄52'07 5.91365 AU
	6988 Apr 15 11:05	0°♄		morning rise	6993 Jun 26 11:51	29°♄56'29
retrograde	6988 May 12 23:16	1°♄09'14			6993 Jun 26 17:38	0°♄
	6988 Jun 09 12:26	30°♄♄		retrograde	6993 Nov 05 21:30	20°♄49'33
opposition	6988 Jul 12 22:40	26°♄16'13 0°44'53		min. Earth dist.	6994 Jan 03 08:36	15°♄55'41 3.91740 AU
min. Earth dist.	6988 Jul 14 03:28	26°♄07'02 4.46875 AU		opposition	6994 Jan 04 09:17	15°♄47'20 -0°56'46
direct	6988 Sep 13 16:55	21°♄14'49		direct	6994 Mar 03 06:08	10°♄52'39
	6988 Dec 05 18:11	0°♄			6994 Jul 04 07:57	0°♄
evening set	6989 Jan 17 03:32	8°♄38'20		evening set	6994 Jul 07 20:33	0°♄50'38
max. Earth dist.	6989 Jan 27 21:08	10°♄58'42 6.42782 AU				
conjunction	6989 Jan 29 22:58	11°♄25'57 0°18'45		conjunction	6994 Jul 21 10:06	4°♄06'39 -0°24'28
minimum elong	6989 Jan 29 22:59	11°♄25'57 0°18'49		minimum elong	6994 Jul 21 10:08	4°♄06'40 0°24'32
morning rise	6989 Feb 11 16:38	14°♄12'51		max. Earth dist.	6994 Jul 23 12:32	4°♄37'04 5.94729 AU
	6989 Feb 15 07:35	15°♄		morning rise	6994 Aug 04 01:59	7°♄23'45
	6989 May 14 22:11	0°♄			6994 Sep 06 01:46	15°♄
retrograde	6989 Jun 13 07:19	1°♄18'35		retrograde	6994 Dec 13 05:33	27°♄48'42
	6989 Jul 12 17:04	30°♄♄		min. Earth dist.	6995 Feb 09 03:36	22°♄56'47 4.00133 AU
opposition	6989 Aug 13 05:44	26°♄26'07 0°07'48		opposition	6995 Feb 10 16:19	22°♄44'17 -0°12'57
min. Earth dist.	6989 Aug 14 20:44	26°♄13'40 4.36995 AU		direct	6995 Apr 09 19:58	17°♄47'23
direct	6989 Oct 14 15:24	21°♄25'50		asc. node	6995 May 28 13:45	21°♄33'01
desc. node	6989 Oct 26 23:23	21°♄39'47			6995 Jul 13 11:41	0°♄
	6990 Jan 03 10:23	0°♄		evening set	6995 Aug 14 11:22	7°♄11'56
evening set	6990 Feb 17 00:15	9°♄19'01		conjunction	6995 Aug 28 04:01	10°♄23'27 0°07'21
max. Earth dist.	6990 Feb 27 11:17	11°♄40'01 6.29800 AU		minimum elong	6995 Aug 28 04:00	10°♄23'26 0°07'20
				behind sun begin	6995 Aug 27 20:21	10°♄19'00
conjunction	6990 Mar 01 18:11	12°♄10'58 -0°09'06		behind sun end	6995 Aug 28 11:39	10°♄27'53
minimum elong	6990 Mar 01 18:10	12°♄10'58 0°09'05		max. Earth dist.	6995 Aug 30 16:17	10°♄58'36 6.07253 AU
behind sun begin	6990 Mar 01 11:22	12°♄07'08		morning rise	6995 Sep 10 21:50	13°♄35'13
behind sun end	6990 Mar 02 00:59	12°♄14'47			6995 Dec 04 21:24	0°♄
morning rise	6990 Mar 14 11:02	15°♄02'42		retrograde	6996 Jan 16 21:43	2°♄52'26
	6990 Jun 01 07:55	0°♄			6996 Feb 28 21:18	30°♄♄
retrograde	6990 Jul 16 17:47	3°♄04'06		min. Earth dist.	6996 Mar 15 02:56	28°♄00'44 4.15358 AU
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


























































































































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	6996 Jul 25 00:07	0° 			7001 Aug 25 23:11	30° 	
evening set	6996 Sep 18 08:21	11°  25'32		desc. node	7001 Sep 06 11:53	28°  36'46	
				direct	7001 Oct 20 00:37	25°  54'50	
conjunction	6996 Oct 01 22:52	14°  28'40	0°35'02		7001 Dec 12 17:10	0° 	
minimum elong	6996 Oct 01 22:51	14°  28'39	0°35'03	evening set	7002 Feb 22 10:42	13°  53'35	
max. Earth dist.	6996 Oct 03 21:24	14°  54'48	6.23807 AU	max. Earth dist.	7002 Mar 04 21:19	16°  15'07	6.27563 AU
morning rise	6996 Oct 15 13:02	17°  31'16					
	6996 Dec 16 21:58	0° 		conjunction	7002 Mar 07 04:27	16°  46'22	-0°13'05
retrograde	6997 Feb 17 02:40	5°  34'56		minimum elong	7002 Mar 07 04:26	16°  46'22	0°13'05
min. Earth dist.	6997 Apr 17 05:49	0°  41'12	4.31710 AU	behind sun begin	7002 Mar 06 23:34	16°  43'37	
opposition	6997 Apr 18 04:19	0°  33'42	1°05'05	behind sun end	7002 Mar 07 09:19	16°  49'07	
	6997 Apr 22 09:39	30°  R 		morning rise	7002 Mar 19 21:31	19°  39'04	
direct	6997 Jun 17 17:30	25°  32'32			7002 May 08 04:31	0° 	
	6997 Aug 12 15:30	0° 		retrograde	7002 Jul 22 17:00	7°  Y50'23	
evening set	6997 Oct 21 23:13	13°  M24'36		opposition	7002 Sep 21 08:36	2°  Y56'48	-0°39'21
	6997 Oct 29 06:54	15°  M		min. Earth dist.	7002 Sep 22 21:01	2°  Y45'04	4.19221 AU
					7002 Oct 15 20:38	30°  R 	
conjunction	6997 Nov 04 08:38	16°  M19'23	0°50'25	direct	7002 Nov 21 12:42	27°  H58'47	
minimum elong	6997 Nov 04 08:37	16°  M19'22	0°50'27		7002 Dec 27 19:25	0° 	
max. Earth dist.	6997 Nov 05 06:05	16°  M31'04	6.38683 AU	evening set	7003 Mar 27 03:45	16°  Y44'36	
morning rise	6997 Nov 17 16:18	19°  M13'07		max. Earth dist.	7003 Apr 07 05:27	19°  Y20'22	6.10902 AU
	6998 Jan 11 02:44	0°  Z					
retrograde	6998 Mar 19 11:14	6°  Z20'34		conjunction	7003 Apr 08 23:02	19°  Y44'49	-0°38'27
opposition	6998 May 18 23:22	1°  Z22'51	1°16'13	minimum elong	7003 Apr 08 23:00	19°  Y44'48	0°38'29
min. Earth dist.	6998 May 18 18:31	1°  Z24'26	4.44103 AU	morning rise	7003 Apr 21 18:43	22°  Y45'37	
	6998 May 29 16:18	30°  R 			7003 May 23 19:10	0° 	
direct	6998 Jul 19 16:50	26°  M20'56		retrograde	7003 Aug 28 04:45	12°  B12'29	
	6998 Sep 08 19:45	0°  Z		opposition	7003 Oct 27 09:50	7°  B16'37	-1°10'36
evening set	6998 Nov 22 15:46	13°  Z43'51		min. Earth dist.	7003 Oct 28 05:52	7°  B10'04	4.03143 AU
				direct	7003 Dec 26 01:43	2°  B21'03	
conjunction	6998 Dec 05 19:17	16°  Z32'45	0°51'02		7004 Mar 31 10:31	15°  B	
minimum elong	6998 Dec 05 19:17	16°  Z32'46	0°51'06	evening set	7004 Apr 30 03:13	21°  B54'43	
max. Earth dist.	6998 Dec 05 10:34	16°  Z28'05	6.47702 AU				
morning rise	6998 Dec 18 20:28	19°  Z20'29		conjunction	7004 May 13 03:08	25°  B03'17	-0°51'33
	6999 Feb 11 14:05	0°  B		minimum elong	7004 May 13 03:08	25°  B03'17	0°51'36
retrograde	6999 Apr 18 04:38	5°  B58'56		max. Earth dist.	7004 May 12 14:01	24°  B55'20	5.96880 AU
opposition	6999 Jun 17 23:41	1°  B04'19	1°06'48	morning rise	7004 May 26 05:09	28°  B13'09	
min. Earth dist.	6999 Jun 18 15:04	0°  B59'22	4.49293 AU		7004 Jun 02 15:33	0°  II	
	6999 Jun 26 08:59	30°  R 		retrograde	7004 Oct 04 15:41	18°  II45'16	
direct	6999 Aug 19 13:32	26°  Z02'23		opposition	7004 Dec 03 09:43	13°  II46'03	-1°16'45
	6999 Oct 12 07:37	0°  B		min. Earth dist.	7004 Dec 03 04:50	13°  II47'41	3.92688 AU
evening set	6999 Dec 23 03:47	13°  B16'12		direct	7005 Jan 30 19:12	8°  II51'53	
max. Earth dist.	7000 Jan 03 14:57	15°  B43'48	6.48669 AU	evening set	7005 Jun 06 05:09	28°  II53'42	
					7005 Jun 10 18:08	0° 	
conjunction	7000 Jan 05 02:16	16°  B02'49	0°38'07				
minimum elong	7000 Jan 05 02:17	16°  B02'49	0°38'11	conjunction	7005 Jun 19 12:41	2°  B08'35	-0°44'58
morning rise	7000 Jan 17 22:33	18°  B48'24		minimum elong	7005 Jun 19 12:43	2°  B08'36	0°45'02
	7000 Mar 16 18:28	0° 		max. Earth dist.	7005 Jun 20 14:14	2°  B24'12	5.91063 AU
retrograde	7000 May 18 06:55	5°  B28'15		morning rise	7005 Jul 02 22:45	5°  B24'55	
opposition	7000 Jul 18 06:09	0°  B35'24	0°40'13	retrograde	7005 Nov 12 08:58	26°  B17'47	
min. Earth dist.	7000 Jul 19 13:15	0°  B25'28	4.46045 AU	opposition	7006 Jan 10 19:27	21°  B15'06	-0°51'28
	7000 Jul 22 21:10	30°  R 		min. Earth dist.	7006 Jan 09 16:34	21°  B24'13	3.92310 AU
direct	7000 Sep 19 00:14	25°  B34'03		direct	7006 Mar 09 16:08	16°  B20'13	
	7000 Nov 14 21:50	0° 			7006 Jun 17 11:41	0°  Q	
evening set	7001 Jan 22 09:53	13°  B00'13		evening set	7006 Jul 14 06:37	6°  Q14'58	
	7001 Jan 31 13:12	15° 					
max. Earth dist.	7001 Feb 02 02:34	15°  B20'30	6.41389 AU	conjunction	7006 Jul 27 20:49	9°  Q30'39	-0°20'11
				minimum elong	7006 Jul 27 20:50	9°  Q30'39	0°20'14
conjunction	7001 Feb 04 05:09	15°  B48'15	0°15'02	max. Earth dist.	7006 Jul 30 02:34	10°  Q02'55	5.96102 AU
minimum elong	7001 Feb 04 05:09	15°  B48'15	0°15'05	morning rise	7006 Aug 10 13:25	12°  Q47'21	
behind sun begin	7001 Feb 04 02:13	15°  B46'39			7006 Aug 19 21:55	15°  Q	
behind sun end	7001 Feb 04 08:05	15°  B49'51			7006 Nov 05 01:06	0°  M	
morning rise	7001 Feb 16 22:24	18°  B35'34		retrograde	7006 Dec 19 06:55	3°  M03'42	
	7001 Apr 15 13:09	0°  H			7007 Feb 01 14:17	30°  R 	
retrograde	7001 Jun 18 19:26	5°  H47'23		min. Earth dist.	7007 Feb 15 04:31	28°  Q12'17	4.02158 AU
opposition	7001 Aug 18 18:25	0°  H54'53	0°01'58	opposition	7007 Feb 16 19:10	27°  Q59'08	-0°06'04





























































































































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direct	7007 Apr 16 00:56	23°♏01'50					
	7007 Jun 23 15:40	0°♎		conjunction	7013 Feb 08 11:27	20°≈10'35	0°11'15
evening set	7007 Aug 20 16:24	12°♎19'06		minimum elong	7013 Feb 08 11:27	20°≈10'35	0°11'18
				behind sun begin	7013 Feb 08 05:35	20°≈07'21	
conjunction	7007 Sep 03 08:54	15°♎29'25	0°11'45	behind sun end	7013 Feb 08 17:20	20°≈13'48	
minimum elong	7007 Sep 03 08:53	15°♎29'24	0°11'44	morning rise	7013 Feb 21 04:44	22°≈58'37	
behind sun begin	7007 Sep 03 03:05	15°♎26'03			7013 Mar 26 12:04	0°♐	
behind sun end	7007 Sep 03 14:41	15°♎32'45		retrograde	7013 Jun 23 11:15	10°♐18'19	
max. Earth dist.	7007 Sep 05 19:47	16°♎03'34	6.09721 AU	desc. node	7013 Jul 17 08:35	9°♐25'42	
morning rise	7007 Sep 17 02:27	18°♎39'52		opposition	7013 Aug 23 08:23	5°♐25'46	-0°03'54
	7007 Nov 09 12:00	0°♏		min. Earth dist.	7013 Aug 25 00:04	5°♐13'04	4.32784 AU
retrograde	7008 Jan 22 14:19	7°♏45'23		direct	7013 Oct 24 11:22	0°♐25'57	
min. Earth dist.	7008 Mar 20 22:35	2°♏53'11	4.17997 AU	evening set	7014 Feb 26 22:43	18°♐31'55	
opposition	7008 Mar 22 08:44	2°♏41'38	0°38'45	max. Earth dist.	7014 Mar 09 11:19	20°♐55'21	6.24985 AU
	7008 Apr 12 12:23	30°♐♎					
direct	7008 May 20 18:23	27°♎41'50		conjunction	7014 Mar 11 16:43	21°♐25'47	-0°17'02
	7008 Jun 28 06:34	0°♏		minimum elong	7014 Mar 11 16:43	21°♐25'47	0°17'00
evening set	7008 Sep 24 04:44	16°♏10'17		morning rise	7014 Mar 24 09:54	24°♐19'38	
					7014 Apr 19 01:33	0°♑	
conjunction	7008 Oct 07 18:42	19°♏12'03	0°38'01	retrograde	7014 Jul 27 17:40	12°♑42'06	
minimum elong	7008 Oct 07 18:41	19°♏12'02	0°38'03	opposition	7014 Sep 26 07:44	7°♑48'21	-0°44'43
max. Earth dist.	7008 Oct 09 15:30	19°♏37'04	6.26389 AU	min. Earth dist.	7014 Sep 27 18:14	7°♑37'13	4.16596 AU
morning rise	7008 Oct 21 07:53	22°♏13'08		direct	7014 Nov 26 05:48	2°♑50'47	
	7008 Nov 27 02:31	0°♎		evening set	7015 Mar 31 23:52	21°♑44'39	
retrograde	7009 Feb 22 09:30	10°♎06'34		max. Earth dist.	7015 Apr 12 04:40	24°♑23'09	6.08458 AU
opposition	7009 Apr 23 13:42	5°♎05'47	1°07'53				
min. Earth dist.	7009 Apr 22 16:45	5°♎12'45	4.34033 AU	conjunction	7015 Apr 13 19:29	24°♑46'07	-0°41'15
direct	7009 Jun 23 06:28	0°♎04'28		minimum elong	7015 Apr 13 19:27	24°♑46'06	0°41'17
	7009 Oct 14 03:58	15°♎		morning rise	7015 Apr 26 16:01	27°♑48'19	
evening set	7009 Oct 27 11:41	17°♎50'32			7015 May 06 01:21	0°♒	
					7015 Jul 24 18:46	15°♒	
conjunction	7009 Nov 09 20:06	20°♎44'10	0°51'20	retrograde	7015 Sep 02 13:52	17°♒26'27	
minimum elong	7009 Nov 09 20:05	20°♎44'10	0°51'24		7015 Oct 12 17:20	15°♒♒	
max. Earth dist.	7009 Nov 10 11:56	20°♎52'46	6.40564 AU	opposition	7015 Nov 01 17:38	12°♒30'09	-1°13'15
morning rise	7009 Nov 23 02:52	23°♎36'47		min. Earth dist.	7015 Nov 02 09:54	12°♒24'49	4.01117 AU
	7009 Dec 23 19:58	0°♑		direct	7015 Dec 31 04:48	7°♒34'54	
retrograde	7010 Mar 24 15:51	10°♑37'55			7016 Mar 10 23:18	15°♒	
opposition	7010 May 24 04:06	5°♑40'41	1°16'01	evening set	7016 May 05 07:30	27°♒14'26	
min. Earth dist.	7010 May 24 03:18	5°♑40'57	4.45428 AU		7016 May 16 16:49	0°♓	
direct	7010 Jul 25 02:09	0°♑38'42					
evening set	7010 Nov 27 22:29	17°♑58'49		conjunction	7016 May 18 08:31	0°♓24'07	-0°51'51
				minimum elong	7016 May 18 08:31	0°♓24'07	0°51'55
conjunction	7010 Dec 11 01:18	20°♑47'11	0°49'57	max. Earth dist.	7016 May 18 02:28	0°♓20'27	5.95489 AU
minimum elong	7010 Dec 11 01:19	20°♑47'12	0°50'01	morning rise	7016 May 31 11:27	3°♓35'06	
max. Earth dist.	7010 Dec 10 12:09	20°♑40'08	6.48366 AU	retrograde	7016 Oct 10 06:01	24°♓13'06	
morning rise	7010 Dec 24 01:43	23°♑34'24		opposition	7016 Dec 08 21:23	19°♓13'25	-1°14'56
	7011 Jan 24 08:48	0°♑		min. Earth dist.	7016 Dec 08 13:24	19°♓16'05	3.92107 AU
retrograde	7011 Apr 23 07:24	10°♑11'19		direct	7017 Feb 05 04:14	14°♓19'18	
opposition	7011 Jun 23 03:38	5°♑17'00	1°03'59		7017 May 24 08:38	0°♐	
min. Earth dist.	7011 Jun 23 21:17	5°♑11'20	4.49280 AU	evening set	7017 Jun 11 14:31	4°♐21'40	
direct	7011 Aug 24 17:42	0°♑15'06					
evening set	7011 Dec 28 08:27	17°♑29'46		conjunction	7017 Jun 24 22:59	7°♐36'55	-0°42'20
max. Earth dist.	7012 Jan 08 16:59	19°♑56'13	6.47977 AU	minimum elong	7017 Jun 24 23:01	7°♐36'56	0°42'24
				max. Earth dist.	7017 Jun 26 04:58	7°♐55'13	5.91323 AU
conjunction	7012 Jan 10 06:28	20°♑16'26	0°35'24	morning rise	7017 Jul 08 10:18	10°♐53'39	
minimum elong	7012 Jan 10 06:29	20°♑16'26	0°35'28		7017 Oct 15 22:41	0°♑	
morning rise	7012 Jan 23 02:07	23°♑02'05		retrograde	7017 Nov 17 16:23	1°♑43'30	
	7012 Feb 25 22:36	0°≈			7017 Dec 20 07:31	30°♐♐	
retrograde	7012 May 22 14:15	9°≈45'16		min. Earth dist.	7018 Jan 14 21:32	26°♐50'43	3.93385 AU
opposition	7012 Jul 22 13:22	4°≈52'37	0°35'25	opposition	7018 Jan 16 03:50	26°♐40'26	-0°45'44
min. Earth dist.	7012 Jul 23 22:39	4°≈42'00	4.44712 AU	direct	7018 Mar 14 23:41	21°♐45'17	
	7012 Sep 13 12:48	30°♐♑			7018 May 28 09:20	0°♑	
direct	7012 Sep 23 06:41	29°♑51'27		evening set	7018 Jul 19 15:01	11°♑35'13	
	7012 Oct 03 01:00	0°≈					
	7013 Jan 15 18:01	15°≈		conjunction	7018 Aug 02 05:47	14°♑50'20	-0°15'46
evening set	7013 Jan 26 16:37	17°≈21'57		minimum elong	7018 Aug 02 05:47	14°♑50'20	0°15'48

behind sun begin	2018 Aug 02 04:57	14° Ω 49'50		min. Earth dist.	2024 Jul 28 08:40	9° \approx 03'53	4.43232 AU
behind sun end	2018 Aug 02 06:38	14° Ω 50'50		direct	2024 Sep 27 13:49	4° \approx 13'44	
	2018 Aug 02 21:58	15° Ω			2024 Dec 29 16:20	15° \approx	
max. Earth dist.	2018 Aug 04 12:51	15° Ω 23'15	5.97859 AU	evening set	2025 Jan 31 00:57	21° \approx 48'49	
morning rise	2018 Aug 15 22:48	18° Ω 06'21		max. Earth dist.	2025 Feb 10 14:39	24° \approx 08'43	6.37597 AU
	2018 Oct 09 07:02	0° Π					
retrograde	2018 Dec 24 06:39	8° Π 13'07		conjunction	2025 Feb 12 19:40	24° \approx 38'05	0°07'20
asc. node	2019 Feb 15 10:13	4° Π 00'26		minimum elong	2025 Feb 12 19:41	24° \approx 38'06	0°07'22
min. Earth dist.	2019 Feb 20 05:23	3° Π 21'28	4.04369 AU	behind sun begin	2025 Feb 12 12:23	24° \approx 34'04	
opposition	2019 Feb 21 19:29	3° Π 08'29	0°00'46	behind sun end	2025 Feb 13 02:58	24° \approx 42'07	
	2019 Mar 18 22:43	30° κ Ω		morning rise	2025 Feb 25 12:42	27° \approx 26'48	
direct	2019 Apr 21 05:34	28° Ω 10'47			2025 Mar 09 05:29	0° X	
	2019 May 24 15:30	0° Π		desc. node	2025 May 26 06:12	13° X 15'53	
evening set	2019 Aug 25 18:53	17° Π 20'38		retrograde	2025 Jun 28 04:24	14° X 54'23	
				opposition	2025 Aug 28 00:41	10° X 01'47	-0°09'55
conjunction	2019 Sep 08 11:23	20° Π 29'46	0°16'01	min. Earth dist.	2025 Aug 29 16:22	9° X 49'06	4.30584 AU
minimum elong	2019 Sep 08 11:22	20° Π 29'46	0°16'00	direct	2025 Oct 29 00:11	5° X 02'21	
max. Earth dist.	2019 Sep 10 22:21	21° Π 03'46	6.12189 AU	evening set	2026 Mar 03 12:32	23° X 14'43	
morning rise	2019 Sep 22 04:25	23° Π 38'54		max. Earth dist.	2026 Mar 14 01:30	25° X 39'11	6.22676 AU
	2019 Oct 20 20:35	0° $\underline{\Omega}$					
retrograde	2020 Jan 27 03:58	12° $\underline{\Omega}$ 33'09		conjunction	2026 Mar 16 06:26	26° X 09'32	-0°20'56
opposition	2020 Mar 26 23:47	7° $\underline{\Omega}$ 29'46	0°43'59	minimum elong	2026 Mar 16 06:25	26° X 09'31	0°20'56
min. Earth dist.	2020 Mar 25 14:39	7° $\underline{\Omega}$ 40'56	4.20486 AU	morning rise	2026 Mar 29 00:02	29° X 04'27	
direct	2020 May 25 12:50	2° $\underline{\Omega}$ 29'44			2026 Apr 02 01:43	0° Υ	
evening set	2020 Sep 28 23:32	20° $\underline{\Omega}$ 51'14		retrograde	2026 Aug 01 19:02	17° Υ 37'06	
				opposition	2026 Oct 01 08:19	12° Υ 43'01	-0°49'53
conjunction	2020 Oct 12 12:40	23° $\underline{\Omega}$ 51'42	0°40'44	min. Earth dist.	2026 Oct 02 16:05	12° Υ 32'44	4.14372 AU
minimum elong	2020 Oct 12 12:39	23° $\underline{\Omega}$ 51'41	0°40'46	direct	2026 Dec 01 01:52	7° Υ 45'47	
max. Earth dist.	2020 Oct 14 04:09	24° $\underline{\Omega}$ 13'38	6.28695 AU	evening set	2027 Apr 05 20:39	26° Υ 46'00	
morning rise	2020 Oct 26 01:10	26° $\underline{\Omega}$ 51'28		max. Earth dist.	2027 Apr 17 07:42	29° Υ 28'49	6.06541 AU
	2020 Nov 09 11:38	0° \mathbb{M}					
retrograde	2021 Feb 26 16:57	14° \mathbb{M} 36'01		conjunction	2027 Apr 18 16:54	29° Υ 48'33	-0°43'47
opposition	2021 Apr 27 22:02	9° \mathbb{M} 35'43	1°10'17	minimum elong	2027 Apr 18 16:53	29° Υ 48'32	0°43'49
min. Earth dist.	2021 Apr 27 04:33	9° \mathbb{M} 41'30	4.35993 AU		2027 Apr 19 12:12	0° B	
direct	2021 Jun 27 19:54	4° \mathbb{M} 34'12		morning rise	2027 May 01 13:56	2° B 51'51	
	2021 Sep 26 19:21	15° \mathbb{M}			2027 Jun 26 10:43	15° B	
evening set	2021 Oct 31 23:08	22° \mathbb{M} 15'34		retrograde	2027 Sep 07 23:13	22° B 38'48	
				opposition	2027 Nov 07 00:51	17° B 42'06	-1°15'20
conjunction	2021 Nov 14 06:57	25° \mathbb{M} 08'20	0°52'00	min. Earth dist.	2027 Nov 07 14:11	17° B 37'43	3.99716 AU
minimum elong	2021 Nov 14 06:56	25° \mathbb{M} 08'20	0°52'04		2027 Nov 28 19:05	15° R B	
max. Earth dist.	2021 Nov 14 19:35	25° \mathbb{M} 15'11	6.42043 AU	direct	2028 Jan 05 08:17	12° B 47'08	
morning rise	2021 Nov 27 12:40	27° \mathbb{M} 59'59			2028 Feb 11 08:05	15° B	
	2021 Dec 06 21:46	0° Z			2028 Apr 30 00:17	0° II	
retrograde	2022 Mar 28 18:35	14° Z 56'13		evening set	2028 May 10 10:41	2° II 29'59	
opposition	2022 May 28 08:59	9° Z 59'27	1°15'27				
min. Earth dist.	2022 May 28 10:12	9° Z 59'03	4.46352 AU	conjunction	2028 May 23 12:27	5° II 40'26	-0°51'46
direct	2022 Jul 29 08:48	4° Z 57'26		minimum elong	2028 May 23 12:27	5° II 40'26	0°51'50
evening set	2022 Dec 02 05:44	22° Z 15'54		max. Earth dist.	2028 May 23 10:30	5° II 39'15	5.94724 AU
				morning rise	2028 Jun 05 16:34	8° II 52'16	
conjunction	2022 Dec 15 07:43	25° Z 03'52	0°48'36	retrograde	2028 Oct 15 13:42	29° II 33'18	
minimum elong	2022 Dec 15 07:43	25° Z 03'52	0°48'40	opposition	2028 Dec 14 05:57	24° II 33'04	-1°12'31
max. Earth dist.	2022 Dec 14 13:51	24° Z 54'17	6.48669 AU	min. Earth dist.	2028 Dec 13 17:32	24° II 37'14	3.92096 AU
morning rise	2022 Dec 28 07:27	27° Z 50'41		direct	2029 Feb 10 09:41	19° II 38'56	
	2023 Jan 07 12:13	0° Z			2029 May 05 20:43	0° G	
retrograde	2023 Apr 27 13:18	14° Z 27'07		evening set	2029 Jun 16 20:26	9° G 39'48	
opposition	2023 Jun 27 08:57	9° Z 33'09	1°00'49				
min. Earth dist.	2023 Jun 28 06:05	9° Z 26'22	4.48955 AU	conjunction	2029 Jun 30 05:49	12° G 55'09	-0°39'26
direct	2023 Aug 29 01:20	4° Z 31'17		minimum elong	2029 Jun 30 05:51	12° G 55'10	0°39'31
evening set	2024 Jan 01 14:33	21° Z 47'31		max. Earth dist.	2029 Jul 01 16:03	13° G 15'59	5.92054 AU
max. Earth dist.	2024 Jan 12 18:58	24° Z 12'07	6.47040 AU	morning rise	2029 Jul 13 17:58	16° G 11'54	
					2029 Sep 14 21:50	0° Ω	
conjunction	2024 Jan 14 12:06	24° Z 34'21	0°32'26	retrograde	2029 Nov 22 20:12	6° Ω 57'03	
minimum elong	2024 Jan 14 12:07	24° Z 34'22	0°32'30	min. Earth dist.	2030 Jan 20 00:22	2° Ω 04'14	3.94762 AU
morning rise	2024 Jan 27 07:23	27° Z 20'13		opposition	2030 Jan 21 07:35	1° Ω 53'38	-0°39'51
	2024 Feb 08 19:44	0° \approx			2030 Feb 04 15:44	30° R G	
retrograde	2024 May 26 23:32	14° \approx 07'22		direct	2030 Mar 20 05:56	26° G 58'09	
opposition	2024 Jul 26 22:33	9° \approx 14'47	0°30'17		2030 May 02 08:22	0° Ω	

	7030 Jul 17 12:49	15°♏			7036 Jan 23 22:20	0°♊	
evening set	7030 Jul 24 18:46	16°♏42'31		morning rise	7036 Jan 31 12:05	1°♊38'16	
					7036 Apr 12 08:55	15°♊	
conjunction	7030 Aug 07 10:07	19°♏56'58 -0°11'24		retrograde	7036 May 31 09:42	18°♊29'36	
minimum elong	7030 Aug 07 10:07	19°♏56'58 0°11'27			7036 Jul 20 08:08	15°♋	
behind sun begin	7030 Aug 07 04:07	19°♏53'25		opposition	7036 Jul 31 07:59	13°♋37'07 0°25'01	
behind sun end	7030 Aug 07 16:07	20°♏00'31		min. Earth dist.	7036 Aug 01 19:54	13°♋25'40 4.41799 AU	
max. Earth dist.	7030 Aug 09 19:42	20°♏31'13 5.99741 AU		direct	7036 Oct 01 22:50	8°♋36'18	
morning rise	7030 Aug 21 03:19	23°♏12'10			7036 Dec 10 01:04	15°♋	
	7030 Sep 19 21:44	0°♌		evening set	7037 Feb 04 08:57	26°♋15'29	
asc. node	7030 Dec 27 11:37	13°♌08'54		max. Earth dist.	7037 Feb 14 20:51	28°♋35'01 6.35825 AU	
retrograde	7030 Dec 29 01:23	13°♌09'09					
min. Earth dist.	7031 Feb 25 00:43	8°♌17'31 4.06550 AU		conjunction	7037 Feb 17 03:24	29°♋05'21 0°03'23	
opposition	7031 Feb 26 14:38	8°♌04'38 0°07'17		minimum elong	7037 Feb 17 03:22	29°♋05'20 0°03'26	
direct	7031 Apr 26 03:14	3°♌06'38		behind sun begin	7037 Feb 16 19:27	29°♋00'57	
evening set	7031 Aug 30 16:48	22°♌09'41		behind sun end	7037 Feb 17 11:17	29°♋09'43	
					7037 Feb 21 05:41	0°♍	
conjunction	7031 Sep 13 08:54	25°♌17'41 0°20'00		morning rise	7037 Mar 01 20:23	1°♍54'43	
minimum elong	7031 Sep 13 08:53	25°♌17'40 0°20'01		desc. node	7037 Apr 04 16:34	9°♍06'23	
max. Earth dist.	7031 Sep 15 16:15	25°♌49'26 6.14456 AU		retrograde	7037 Jul 02 20:02	19°♍29'42	
morning rise	7031 Sep 27 01:43	28°♌25'37		opposition	7037 Sep 01 16:17	14°♍36'54 -0°15'50	
	7031 Oct 04 00:40	0°♎		min. Earth dist.	7037 Sep 03 06:44	14°♍24'34 4.28569 AU	
retrograde	7032 Jan 31 13:33	17°♎10'01		direct	7037 Nov 02 12:04	9°♍37'41	
min. Earth dist.	7032 Mar 30 04:05	12°♎17'25 4.22643 AU		evening set	7038 Mar 08 01:13	27°♍55'48	
opposition	7032 Mar 31 10:57	12°♎07'01 0°48'44			7038 Mar 17 01:53	0°♐	
direct	7032 May 30 04:25	7°♎06'44		max. Earth dist.	7038 Mar 18 17:29	0°♐22'48 6.20563 AU	
evening set	7032 Oct 03 14:16	25°♎22'42					
				conjunction	7038 Mar 20 19:20	0°♐51'31 -0°24'41	
conjunction	7032 Oct 17 02:56	28°♎22'09 0°43'08		minimum elong	7038 Mar 20 19:19	0°♐51'30 0°24'41	
minimum elong	7032 Oct 17 02:55	28°♎22'08 0°43'10		morning rise	7038 Apr 02 13:02	3°♐47'23	
max. Earth dist.	7032 Oct 18 15:44	28°♎42'31 6.30592 AU		retrograde	7038 Aug 06 19:56	22°♐29'31	
	7032 Oct 24 11:47	0°♑		opposition	7038 Oct 06 07:32	17°♐35'09 -0°54'39	
morning rise	7032 Oct 30 14:26	1°♑20'46		min. Earth dist.	7038 Oct 07 14:07	17°♐25'14 4.12301 AU	
	7033 Jan 10 01:21	15°♑		direct	7038 Dec 05 21:20	12°♐38'15	
retrograde	7033 Mar 02 21:35	18°♑58'15			7039 Apr 03 06:24	0°♒	
	7033 Apr 24 08:31	15°♑		evening set	7039 Apr 10 15:55	1°♒44'22	
opposition	7033 May 02 03:49	13°♑58'32 1°12'14		max. Earth dist.	7039 Apr 22 05:39	4°♒29'29 6.04676 AU	
min. Earth dist.	7033 May 01 12:38	14°♑03'33 4.37510 AU					
direct	7033 Jul 02 04:58	8°♑57'00		conjunction	7039 Apr 23 12:36	4°♒47'57 -0°45'58	
	7033 Sep 06 22:45	15°♑		minimum elong	7039 Apr 23 12:35	4°♒47'56 0°46'00	
evening set	7033 Nov 05 08:34	26°♑35'14		morning rise	7039 May 06 10:32	7°♒52'26	
					7039 Jun 06 11:46	15°♒	
conjunction	7033 Nov 18 15:27	29°♑27'17 0°52'21		retrograde	7039 Sep 13 05:04	27°♒48'11	
minimum elong	7033 Nov 18 15:27	29°♑27'17 0°52'25		opposition	7039 Nov 12 06:10	22°♒51'00 -1°16'48	
max. Earth dist.	7033 Nov 18 22:25	29°♑31'03 6.43076 AU		min. Earth dist.	7039 Nov 12 15:22	22°♒47'58 3.98246 AU	
	7033 Nov 21 03:58	0°♓		direct	7040 Jan 10 08:21	17°♓56'13	
morning rise	7033 Dec 01 20:30	2°♓18'15			7040 Apr 12 10:02	0°♔	
retrograde	7034 Apr 01 22:42	19°♓11'12		evening set	7040 May 15 12:39	7°♔43'03	
opposition	7034 Jun 01 12:50	14°♓14'55 1°14'30					
min. Earth dist.	7034 Jun 01 17:34	14°♓13'22 4.46873 AU		conjunction	7040 May 28 15:26	10°♔54'23 -0°51'15	
direct	7034 Aug 02 16:06	9°♓12'55		minimum elong	7040 May 28 15:27	10°♔54'23 0°51'19	
evening set	7034 Dec 06 11:48	26°♓30'57		max. Earth dist.	7040 May 28 18:54	10°♔56'29 5.93798 AU	
				morning rise	7040 Jun 10 20:33	14°♔07'07	
conjunction	7034 Dec 19 13:19	29°♓18'43 0°47'01			7040 Aug 25 02:34	0°♕	
minimum elong	7034 Dec 19 13:20	29°♓18'43 0°47'06		retrograde	7040 Oct 20 22:22	4°♕51'57	
max. Earth dist.	7034 Dec 18 17:10	29°♓07'54 6.48652 AU			7040 Dec 18 11:02	30°♕	
	7034 Dec 22 18:15	0°♖		opposition	7040 Dec 19 13:13	29°♕51'12 -1°09'32	
morning rise	7035 Jan 01 12:16	2°♖05'18		min. Earth dist.	7040 Dec 18 22:39	29°♕56'06 3.91818 AU	
retrograde	7035 May 01 17:00	18°♖42'18		direct	7041 Feb 15 15:50	24°♕56'57	
opposition	7035 Jul 01 14:04	13°♖48'36 0°57'21			7041 Apr 13 03:30	0°♗	
min. Earth dist.	7035 Jul 02 12:11	13°♖41'31 4.48425 AU		evening set	7041 Jun 22 02:16	14°♗57'41	
direct	7035 Sep 02 05:58	8°♖46'54					
evening set	7036 Jan 05 20:14	26°♖05'08		conjunction	7041 Jul 05 12:47	18°♗13'20 -0°36'14	
max. Earth dist.	7036 Jan 16 22:24	28°♖28'56 6.46035 AU		minimum elong	7041 Jul 05 12:48	18°♗13'21 0°36'18	
				max. Earth dist.	7041 Jul 07 03:50	18°♗37'04 5.92456 AU	
conjunction	7036 Jan 18 17:13	28°♖52'09 0°29'18		morning rise	7041 Jul 19 01:52	21°♗30'20	
minimum elong	7036 Jan 18 17:14	28°♖52'10 0°29'22			7041 Aug 24 20:13	0°♘	

retrograde	7041 Nov 28 00:47	12°♏11'49		evening set	7048 Jan 10 00:35	0°≈19'08	
min. Earth dist.	7042 Jan 25 02:13	7°♏19'20	3.95802 AU	max. Earth dist.	7048 Jan 21 00:32	2°≈41'54	6.45590 AU
opposition	7042 Jan 26 11:15	7°♏08'07	-0°33'40				
direct	7042 Mar 25 09:41	2°♏12'20		conjunction	7048 Jan 22 21:08	3°≈06'07	0°26'08
	7042 Jun 29 23:29	15°♏		minimum elong	7048 Jan 22 21:09	3°≈06'07	0°26'11
evening set	7042 Jul 29 23:48	21°♏52'37		morning rise	7048 Feb 04 15:27	5°≈52'12	
					7048 Mar 20 18:22	15°≈	
conjunction	7042 Aug 12 15:27	25°♏06'30	-0°06'56	retrograde	7048 Jun 04 15:22	22°≈46'01	
minimum elong	7042 Aug 12 15:27	25°♏06'30	0°06'59	opposition	7048 Aug 04 15:20	17°≈53'31	0°19'48
behind sun begin	7042 Aug 12 07:42	25°♏01'56		min. Earth dist.	7048 Aug 06 03:23	17°≈42'01	4.40883 AU
behind sun end	7042 Aug 12 23:12	25°♏11'04			7048 Aug 28 20:11	15°≈	
max. Earth dist.	7042 Aug 15 00:44	25°♏40'25	6.01292 AU	direct	7048 Oct 06 04:20	12°≈52'51	
morning rise	7042 Aug 26 09:08	28°♏21'06			7048 Nov 13 11:22	15°≈	
	7042 Sep 02 10:33	0°♐			7049 Feb 05 23:22	0°♐	
asc. node	7042 Nov 06 10:47	13°♐12'39		evening set	7049 Feb 08 14:02	0°♐34'33	
retrograde	7043 Jan 02 20:21	18°♐09'31		desc. node	7049 Feb 14 16:02	1°♐55'29	
min. Earth dist.	7043 Mar 01 21:26	13°♐17'53	4.08433 AU	max. Earth dist.	7049 Feb 19 01:43	2°♐54'24	6.34488 AU
opposition	7043 Mar 03 11:14	13°♐05'01	0°13'49				
direct	7043 May 01 02:47	8°♐06'38		conjunction	7049 Feb 21 08:10	3°♐24'47	-0°00'30
evening set	7043 Sep 04 16:46	27°♐03'54		minimum elong	7049 Feb 21 08:10	3°♐24'47	0°00'28
	7043 Sep 17 13:43	0°♑		behind sun begin	7049 Feb 21 00:13	3°♐20'22	
				behind sun end	7049 Feb 21 16:07	3°♐29'11	
conjunction	7043 Sep 18 08:47	0°♑10'53	0°23'56	morning rise	7049 Mar 06 00:59	6°♐14'37	
minimum elong	7043 Sep 18 08:46	0°♑10'53	0°23'56	retrograde	7049 Jul 07 09:38	23°♐55'55	
max. Earth dist.	7043 Sep 20 15:15	0°♑41'59	6.16525 AU	opposition	7049 Sep 06 04:53	19°♐03'00	-0°21'23
morning rise	7043 Oct 02 00:57	3°♑17'38		min. Earth dist.	7049 Sep 07 20:23	18°♐50'20	4.26859 AU
retrograde	7044 Feb 05 02:43	21°♑52'38		direct	7049 Nov 06 22:53	14°♐04'01	
min. Earth dist.	7044 Apr 03 19:24	16°♑59'48	4.24711 AU		7050 Mar 01 15:15	0°♑	
opposition	7044 Apr 05 00:24	16°♑50'04	0°53'17	evening set	7050 Mar 12 10:13	2°♑27'02	
direct	7044 Jun 03 22:32	11°♑49'36		max. Earth dist.	7050 Mar 23 02:14	4°♑54'35	6.18603 AU
evening set	7044 Oct 08 07:48	0°♒00'07					
	7044 Oct 08 07:36	0°♒		conjunction	7050 Mar 25 04:24	5°♑23'35	-0°28'05
				minimum elong	7050 Mar 25 04:22	5°♑23'34	0°28'06
conjunction	7044 Oct 21 19:39	2°♒58'26	0°45'19	morning rise	7050 Apr 06 22:30	8°♑20'25	
minimum elong	7044 Oct 21 19:38	2°♒58'25	0°45'22	retrograde	7050 Aug 11 15:26	27°♑11'55	
max. Earth dist.	7044 Oct 23 04:30	3°♒16'33	6.32514 AU	opposition	7050 Oct 11 02:47	22°♑17'14	-0°58'51
morning rise	7044 Nov 04 06:26	5°♒55'56		min. Earth dist.	7050 Oct 12 07:00	22°♑08'04	4.10235 AU
	7044 Dec 18 07:45	15°♒		direct	7050 Dec 10 11:16	17°♑20'36	
retrograde	7045 Mar 07 04:07	23°♒25'58			7051 Mar 17 20:14	0°♒	
opposition	7045 May 06 11:57	18°♒26'43	1°13'50	evening set	7051 Apr 15 07:46	6°♒33'09	
min. Earth dist.	7045 May 05 22:56	18°♒31'01	4.39191 AU	max. Earth dist.	7051 Apr 27 01:56	9°♒21'36	6.02688 AU
	7045 Jun 04 11:21	15°♒♒					
direct	7045 Jul 06 17:11	13°♒25'05		conjunction	7051 Apr 28 05:08	9°♒37'54	-0°47'45
	7045 Aug 08 08:46	15°♒		minimum elong	7051 Apr 28 05:07	9°♒37'53	0°47'48
	7045 Nov 05 04:35	0°♓		morning rise	7051 May 11 03:47	12°♒43'38	
evening set	7045 Nov 09 19:40	0°♓59'16			7051 May 20 18:30	15°♒	
					7051 Aug 06 15:00	0°♓	
conjunction	7045 Nov 23 01:52	3°♓50'29	0°52'27	retrograde	7051 Sep 18 10:04	2°♓49'06	
minimum elong	7045 Nov 23 01:52	3°♓50'29	0°52'31		7051 Oct 31 13:25	30°♒♒	
max. Earth dist.	7045 Nov 23 06:53	3°♓53'11	6.44432 AU	opposition	7051 Nov 17 08:10	27°♒51'30	-1°17'42
morning rise	7045 Dec 06 05:50	6°♓40'33		min. Earth dist.	7051 Nov 17 15:45	27°♒49'00	3.96521 AU
retrograde	7046 Apr 06 01:58	23°♓28'57		direct	7052 Jan 15 06:47	22°♒56'53	
opposition	7046 Jun 05 18:13	18°♓33'05	1°13'12		7052 Mar 23 14:24	0°♓	
min. Earth dist.	7046 Jun 06 00:32	18°♓31'03	4.47842 AU	evening set	7052 May 20 12:11	12°♓49'12	
direct	7046 Aug 07 00:16	13°♓31'10					
	7046 Dec 07 02:05	0°♔		conjunction	7052 Jun 02 16:08	16°♓01'41	-0°50'23
evening set	7046 Dec 10 18:28	0°♔46'52		minimum elong	7052 Jun 02 16:09	16°♓01'41	0°50'27
				max. Earth dist.	7052 Jun 02 23:57	16°♓06'27	5.92512 AU
conjunction	7046 Dec 23 19:01	3°♔34'07	0°45'13	morning rise	7052 Jun 15 22:30	19°♓15'37	
minimum elong	7046 Dec 23 19:02	3°♔34'07	0°45'18		7052 Aug 02 00:38	0°♔	
max. Earth dist.	7046 Dec 22 18:40	3°♔21'03	6.49171 AU	retrograde	7052 Oct 26 05:46	10°♔05'50	
morning rise	7047 Jan 05 17:22	6°♔20'15		opposition	7052 Dec 24 18:31	5°♔04'42	-1°06'08
retrograde	7047 May 05 21:49	22°♔56'04		min. Earth dist.	7052 Dec 24 00:49	5°♔10'39	3.91144 AU
opposition	7047 Jul 05 19:15	18°♔02'36	0°53'40	direct	7053 Feb 20 17:43	0°♔10'25	
min. Earth dist.	7047 Jul 06 20:03	17°♔54'39	4.48467 AU	evening set	7053 Jun 27 07:25	20°♔13'00	
direct	7047 Sep 06 13:30	13°♔00'56					
	7048 Jan 08 12:59	0°≈		conjunction	7053 Jul 10 18:52	23°♔29'09	-0°32'49

minimum elong	7053 Jul 10 18:53	23°  29'10	0°32'53	opposition	7059 Jul 10 01:47	22°  20'40	0°49'34
max. Earth dist.	7053 Jul 12 12:16	23°  54'18	5.92448 AU	min. Earth dist.	7059 Jul 11 04:14	22°  12'13	4.48038 AU
morning rise	7053 Jul 24 09:09	26°  46'39		direct	7059 Sep 10 20:12	17°  19'07	
	7053 Aug 06 21:50	0°  ♂			7059 Dec 23 05:23	0°  ♂	
	7053 Oct 24 23:23	15°  ♂		evening set	7060 Jan 14 06:44	4°  ♂38'48	
retrograde	7053 Dec 03 03:39	17°  ♂26'20		max. Earth dist.	7060 Jan 25 02:56	6°  ♂59'56	6.44568 AU
	7054 Jan 11 06:52	15°  ♂♂					
min. Earth dist.	7054 Jan 30 03:31	12°  ♂34'15	3.96458 AU	conjunction	7060 Jan 27 02:40	7°  ♂25'56	0°22'41
opposition	7054 Jan 31 14:31	12°  ♂22'20	-0°27'20	minimum elong	7060 Jan 27 02:41	7°  ♂25'57	0°22'45
direct	7054 Mar 30 13:17	7°  ♂26'13		morning rise	7060 Feb 08 20:45	10°  ♂12'18	
	7054 Jun 09 17:48	15°  ♂			7060 Mar 02 12:18	15°  ♂	
evening set	7054 Aug 04 05:28	27°  ♂04'05		retrograde	7060 Jun 09 03:14	27°  ♂10'42	
	7054 Aug 16 15:54	0°  ♂		opposition	7060 Aug 09 02:13	22°  ♂18'13	0°14'12
				min. Earth dist.	7060 Aug 10 16:26	22°  ♂06'01	4.39305 AU
conjunction	7054 Aug 17 21:43	0°  ♂17'36	-0°02'27	direct	7060 Oct 10 14:44	17°  ♂17'39	
minimum elong	7054 Aug 17 21:45	0°  ♂17'37	0°02'29	desc. node	7060 Dec 24 21:52	24°  ♂48'48	
behind sun begin	7054 Aug 17 13:22	0°  ♂12'41			7061 Jan 20 12:49	0°  ♂	
behind sun end	7054 Aug 18 06:08	0°  ♂22'33		evening set	7061 Feb 12 22:53	5°  ♂03'59	
max. Earth dist.	7054 Aug 20 09:30	0°  ♂52'54	6.02564 AU	max. Earth dist.	7061 Feb 23 09:38	7°  ♂23'57	6.32470 AU
morning rise	7054 Aug 31 15:33	3°  ♂31'41					
asc. node	7054 Sep 16 17:24	7°  ♂14'08		conjunction	7061 Feb 25 16:57	7°  ♂54'56	-0°04'34
retrograde	7055 Jan 07 18:22	23°  ♂12'27		minimum elong	7061 Feb 25 16:57	7°  ♂54'56	0°04'32
min. Earth dist.	7055 Mar 06 19:25	18°  ♂20'40	4.10154 AU	behind sun begin	7061 Feb 25 09:08	7°  ♂50'35	
opposition	7055 Mar 08 08:37	18°  ♂08'03	0°20'11	behind sun end	7061 Feb 26 00:46	7°  ♂59'18	
direct	7055 May 06 04:09	13°  ♂09'20		morning rise	7061 Mar 10 09:45	10°  ♂45'35	
	7055 Aug 31 18:10	0°  ♂		retrograde	7061 Jul 12 03:13	28°  ♂35'32	
evening set	7055 Sep 09 17:58	2°  ♂01'16		opposition	7061 Sep 10 22:37	23°  ♂42'25	-0°27'12
				min. Earth dist.	7061 Sep 12 12:47	23°  ♂30'10	4.24531 AU
conjunction	7055 Sep 23 09:38	5°  ♂07'12	0°27'41	direct	7061 Nov 11 11:36	18°  ♂43'41	
minimum elong	7055 Sep 23 09:36	5°  ♂07'11	0°27'40		7062 Feb 12 09:10	0°  ♂	
max. Earth dist.	7055 Sep 25 15:01	5°  ♂37'32	6.18527 AU	evening set	7062 Mar 17 01:18	7°  ♂13'44	
morning rise	7055 Oct 07 01:23	8°  ♂12'50		max. Earth dist.	7062 Mar 27 19:56	9°  ♂43'36	6.16155 AU
retrograde	7056 Feb 09 14:47	26°  ♂38'27					
min. Earth dist.	7056 Apr 08 10:25	21°  ♂45'40	4.26801 AU	conjunction	7062 Mar 29 19:43	10°  ♂11'23	-0°31'34
opposition	7056 Apr 09 14:44	21°  ♂36'11	0°57'26	minimum elong	7062 Mar 29 19:42	10°  ♂11'22	0°31'34
direct	7056 Jun 08 16:43	16°  ♂35'26		morning rise	7062 Apr 11 14:15	13°  ♂09'26	
	7056 Sep 21 06:27	0°  ♂			7062 Jul 09 22:42	0°  ♂	
evening set	7056 Oct 13 01:45	4°  ♂40'06		retrograde	7062 Aug 16 21:17	2°  ♂12'05	
					7062 Sep 24 00:54	30°  ♂♂	
conjunction	7056 Oct 26 12:53	7°  ♂37'16	0°47'12	opposition	7062 Oct 16 05:26	27°  ♂17'04	-1°02'59
minimum elong	7056 Oct 26 12:52	7°  ♂37'16	0°47'16	min. Earth dist.	7062 Oct 17 08:21	27°  ♂08'18	4.07852 AU
max. Earth dist.	7056 Oct 27 18:51	7°  ♂53'44	6.34513 AU	direct	7062 Dec 15 09:44	22°  ♂20'43	
morning rise	7056 Nov 08 22:38	10°  ♂33'32			7063 Feb 26 02:19	0°  ♂	
	7056 Nov 29 17:52	15°  ♂		evening set	7063 Apr 20 06:57	11°  ♂40'32	
retrograde	7057 Mar 11 12:05	27°  ♂55'50		max. Earth dist.	7063 May 02 05:53	14°  ♂32'36	6.00601 AU
opposition	7057 May 10 20:48	22°  ♂57'01	1°14'57				
min. Earth dist.	7057 May 10 10:30	23°  ♂00'24	4.40916 AU	conjunction	7063 May 03 05:09	14°  ♂46'35	-0°49'18
direct	7057 Jul 11 07:03	17°  ♂55'15		minimum elong	7063 May 03 05:08	14°  ♂46'35	0°49'22
	7057 Oct 19 05:50	0°  ♂♂			7063 May 04 03:27	15°  ♂	
evening set	7057 Nov 14 07:03	5°  ♂♂25'02		morning rise	7063 May 16 04:48	17°  ♂53'42	
					7063 Jul 10 00:46	0°  ♂♂	
conjunction	7057 Nov 27 12:18	8°  ♂♂15'24	0°52'14	retrograde	7063 Sep 23 20:52	8°  ♂♂08'45	
minimum elong	7057 Nov 27 12:18	8°  ♂♂15'24	0°52'18	opposition	7063 Nov 22 17:41	3°  ♂♂10'43	-1°18'01
max. Earth dist.	7057 Nov 27 12:34	8°  ♂♂15'32	6.45720 AU	min. Earth dist.	7063 Nov 22 21:13	3°  ♂♂09'33	3.94978 AU
morning rise	7057 Dec 10 15:29	11°  ♂♂04'37			7063 Dec 18 20:46	30°  ♂♂♂	
retrograde	7058 Apr 10 06:32	27°  ♂♂48'48		direct	7064 Jan 20 10:38	28°  ♂♂16'19	
opposition	7058 Jun 10 00:06	22°  ♂♂53'16	1°11'25		7064 Feb 21 18:49	0°  ♂♂	
min. Earth dist.	7058 Jun 10 09:11	22°  ♂♂50'20	4.48609 AU	evening set	7064 May 25 19:17	18°  ♂♂13'00	
direct	7058 Aug 11 08:55	17°  ♂♂51'15					
	7058 Nov 20 12:03	0°  ♂♂		conjunction	7064 Jun 08 00:14	21°  ♂♂26'24	-0°49'02
evening set	7058 Dec 15 01:28	5°  ♂♂05'22		minimum elong	7064 Jun 08 00:15	21°  ♂♂26'25	0°49'07
max. Earth dist.	7058 Dec 26 22:59	7°  ♂♂38'03	6.49349 AU	max. Earth dist.	7064 Jun 08 12:32	21°  ♂♂33'55	5.91673 AU
				morning rise	7064 Jun 21 07:55	24°  ♂♂41'20	
conjunction	7058 Dec 28 01:29	7°  ♂♂52'17	0°43'07		7064 Jul 13 15:57	0°  ♂♂	
minimum elong	7058 Dec 28 01:31	7°  ♂♂52'17	0°43'12	retrograde	7064 Oct 31 17:08	15°  ♂♂34'18	
morning rise	7059 Jan 09 22:58	10°  ♂♂38'04		min. Earth dist.	7064 Dec 29 08:06	10°  ♂♂39'52	3.91133 AU
retrograde	7059 May 10 02:39	27°  ♂♂13'56		opposition	7064 Dec 30 05:24	10°  ♂♂32'40	-1°01'56

direct	7065 Feb 26 03:26	5°  38'14		min. Earth dist.	7070 Jun 14 16:23	27°  03'04	4.49079 AU
evening set	7065 Jul 02 17:48	25°  39'43		direct	7070 Aug 15 15:29	22°  05'06	
					7070 Nov 02 09:30	0°  3	
conjunction	7065 Jul 16 06:22	28°  55'58 -0°28'58		evening set	7070 Dec 19 06:27	9°  18'47	
minimum elong	7065 Jul 16 06:23	28°  55'59 0°29'01		max. Earth dist.	7070 Dec 30 21:57	11°  348'27	6.49110 AU
max. Earth dist.	7065 Jul 18 05:18	29°  24'24 5.93298 AU					
	7065 Jul 20 16:07	0°  9		conjunction	7071 Jan 01 05:45	12°  305'32	0°40'51
morning rise	7065 Jul 29 21:20	2°  13'23		minimum elong	7071 Jan 01 05:46	12°  305'32	0°40'54
	7065 Sep 25 22:49	15°  9		morning rise	7071 Jan 14 02:47	14°  351'14	
retrograde	7065 Dec 08 10:05	22°  946'56			7071 Apr 13 01:35	0°  ≈	
min. Earth dist.	7066 Feb 04 08:22	17°  954'56 3.98066 AU		retrograde	7071 May 14 08:45	1°  ≈28'51	
opposition	7066 Feb 05 20:19	17°  942'42 -0°20'35			7071 Jun 14 16:46	30°  R3	
	7066 Feb 27 00:08	15°  R9		opposition	7071 Jul 14 07:30	26°  335'49	0°45'17
direct	7066 Apr 04 21:14	12°  946'16		min. Earth dist.	7071 Jul 15 12:36	26°  326'30	4.47115 AU
	7066 May 11 17:48	15°  9		direct	7071 Sep 15 01:46	21°  334'18	
asc. node	7066 Jul 26 18:31	29°  906'50			7071 Dec 05 08:53	0°  ≈	
	7066 Jul 30 15:12	0°  M		evening set	7072 Jan 18 12:15	8°  ≈57'17	
evening set	7066 Aug 09 12:48	2°  M17'55		max. Earth dist.	7072 Jan 29 07:06	11°  ≈18'11	6.43024 AU
conjunction	7066 Aug 23 05:15	5°  M30'31 0°02'15		conjunction	7072 Jan 31 08:01	11°  ≈44'55	0°19'09
minimum elong	7066 Aug 23 05:14	5°  M30'30 0°02'14		minimum elong	7072 Jan 31 08:02	11°  ≈44'55	0°19'13
behind sun begin	7066 Aug 22 20:50	5°  M25'36		morning rise	7072 Feb 13 01:40	14°  ≈31'45	
behind sun end	7066 Aug 23 13:37	5°  M35'25			7072 Feb 15 05:44	15°  ≈	
max. Earth dist.	7066 Aug 25 18:02	6°  M06'11 6.04755 AU			7072 May 11 23:06	0°  H	
morning rise	7066 Sep 05 23:08	8°  M43'31		retrograde	7072 Jun 13 14:15	1°  H36'38	
retrograde	7067 Jan 12 12:46	28°  M13'01			7072 Jul 16 09:30	30°  R≈	
min. Earth dist.	7067 Mar 11 15:37	23°  M21'31 4.12690 AU		opposition	7072 Aug 13 13:28	26°  ≈44'12	0°08'32
opposition	7067 Mar 13 05:17	23°  M08'45 0°26'23		min. Earth dist.	7072 Aug 15 04:05	26°  ≈31'52	4.37236 AU
direct	7067 May 11 04:15	18°  M09'42		direct	7072 Oct 14 22:31	21°  ≈43'53	
	7067 Aug 14 01:34	0°  Ω		desc. node	7072 Nov 03 16:57	22°  ≈19'09	
evening set	7067 Sep 14 17:40	6°  Ω53'39			7073 Jan 02 04:14	0°  H	
				evening set	7073 Feb 17 08:51	9°  H36'40	
conjunction	7067 Sep 28 08:46	9°  Ω58'11 0°31'12		max. Earth dist.	7073 Feb 27 18:58	11°  H57'06	6.30023 AU
minimum elong	7067 Sep 28 08:44	9°  Ω58'10 0°31'13					
max. Earth dist.	7067 Sep 30 11:01	10°  Ω26'34 6.21181 AU		conjunction	7073 Mar 02 02:46	12°  H28'33	-0°08'32
morning rise	7067 Oct 11 23:44	13°  Ω02'17		minimum elong	7073 Mar 02 02:45	12°  H28'33	0°08'32
	7068 Jan 16 14:46	0°  M		behind sun begin	7073 Mar 01 19:46	12°  H24'38	
retrograde	7068 Feb 14 02:13	1°  M16'51		behind sun end	7073 Mar 02 09:44	12°  H32'28	
	7068 Mar 13 07:28	30°  RΩ		morning rise	7073 Mar 14 19:47	15°  H20'15	
min. Earth dist.	7068 Apr 13 01:26	26°  Ω23'28 4.29326 AU			7073 May 30 12:19	0°  Y	
opposition	7068 Apr 14 02:42	26°  Ω15'02 1°01'07		retrograde	7073 Jul 17 02:16	3°  Y20'42	
direct	7068 Jun 13 10:47	21°  Ω14'04			7073 Sep 03 13:22	30°  RH	
	7068 Sep 02 20:25	0°  M		opposition	7073 Sep 15 18:51	28°  H27'26	-0°32'55
evening set	7068 Oct 17 16:50	9°  M11'55		min. Earth dist.	7073 Sep 17 08:46	28°  H15'14	4.21864 AU
				direct	7073 Nov 16 04:02	23°  H29'01	
conjunction	7068 Oct 31 03:10	12°  M07'52 0°48'46			7074 Jan 23 00:28	0°  Y	
minimum elong	7068 Oct 31 03:09	12°  M07'51 0°48'49		evening set	7074 Mar 21 18:35	12°  Y07'16	
max. Earth dist.	7068 Nov 01 05:31	12°  M22'17 6.36705 AU		max. Earth dist.	7074 Apr 01 16:30	14°  Y39'55	6.13505 AU
morning rise	7068 Nov 13 11:56	15°  M02'50					
	7068 Nov 13 06:43	15°  M		conjunction	7074 Apr 03 13:29	15°  Y06'13	-0°34'51
	7069 Feb 04 19:53	0°  H		minimum elong	7074 Apr 03 13:27	15°  Y06'12	0°34'52
retrograde	7069 Mar 15 15:41	2°  H17'23		morning rise	7074 Apr 16 08:32	18°  Y05'38	
	7069 Apr 23 11:14	30°  R M			7074 Jun 11 01:06	0°  B	
opposition	7069 May 15 02:38	27°  M19'03 1°15'37		retrograde	7074 Aug 22 04:05	7°  B20'12	
min. Earth dist.	7069 May 14 18:31	27°  M21'43 4.42639 AU		opposition	7074 Oct 21 10:53	2°  B24'50	-1°06'42
direct	7069 Jul 15 15:51	22°  M17'12		min. Earth dist.	7074 Oct 22 10:13	2°  B17'13	4.05479 AU
	7069 Sep 30 17:18	0°  H			7074 Nov 09 18:47	30°  R Y	
evening set	7069 Nov 18 15:22	9°  H43'05		direct	7074 Dec 20 08:35	27°  Y28'54	
					7075 Jan 29 07:24	0°  B	
conjunction	7069 Dec 01 19:50	12°  H32'41 0°51'43			7075 Apr 17 06:30	15°  B	
minimum elong	7069 Dec 01 19:50	12°  H32'41 0°51'48		evening set	7075 Apr 25 09:14	16°  B55'54	
max. Earth dist.	7069 Dec 01 15:48	12°  H30'31 6.46848 AU					
morning rise	7069 Dec 14 22:04	15°  H21'08		conjunction	7075 May 08 08:08	20°  B03'08	-0°50'29
	7070 Mar 08 14:41	0°  B		minimum elong	7075 May 08 08:07	20°  B03'08	0°50'32
retrograde	7070 Apr 14 09:57	2°  B02'09		max. Earth dist.	7075 May 07 13:30	19°  B51'53	5.98727 AU
	7070 May 21 05:37	30°  R H		morning rise	7075 May 21 08:52	23°  B11'35	
opposition	7070 Jun 14 03:58	27°  H07'04 1°09'20			7075 Jun 19 14:06	0°  II	

retrograde	7075 Sep 29 09:31	13° Π 35'02		min. Earth dist.	7081 May 19 04:15	1° X 41'31	4.43962 AU
opposition	7075 Nov 28 05:12	8° Π 36'26	-1°17'38		7081 Jun 01 08:40	30° R Π	
min. Earth dist.	7075 Nov 28 04:35	8° Π 36'38	3.93819 AU	direct	7081 Jul 20 02:17	26° Π 38'12	
direct	7076 Jan 25 19:08	3° Π 42'08			7081 Sep 06 22:44	0° X	
evening set	7076 May 31 03:57	23° Π 41'24		evening set	7081 Nov 22 23:34	14° X 01'16	
conjunction	7076 Jun 13 10:10	26° Π 55'32	-0°47'15	conjunction	7081 Dec 06 03:20	16° X 50'19	0°50'57
minimum elong	7076 Jun 13 10:11	26° Π 55'32	0°47'20	minimum elong	7081 Dec 06 03:21	16° X 50'19	0°51'01
max. Earth dist.	7076 Jun 14 05:49	27° Π 07'32	5.91355 AU	max. Earth dist.	7081 Dec 05 19:05	16° X 45'54	6.47561 AU
morning rise	7076 Jun 26 18:51	0° E 11'05		morning rise	7081 Dec 19 04:45	19° X 38'12	
	7076 Jun 26 00:34	0° E			7082 Feb 10 03:22	0° E	
retrograde	7076 Nov 06 05:14	21° E 04'04		retrograde	7082 Apr 18 13:21	6° E 17'16	
opposition	7077 Jan 04 16:19	16° E 01'55	-0°57'09	opposition	7082 Jun 18 08:40	1° E 22'31	1°06'53
min. Earth dist.	7077 Jan 03 16:35	16° E 09'57	3.91696 AU	min. Earth dist.	7082 Jun 18 23:14	1° E 17'49	4.49165 AU
direct	7077 Mar 03 13:46	11° E 07'17			7082 Jun 29 04:15	30° R X	
	7077 Jul 03 14:30	0° Ω		direct	7082 Aug 19 20:43	26° X 20'33	
evening set	7077 Jul 08 03:38	1° Ω 05'19			7082 Oct 10 09:48	0° E	
conjunction	7077 Jul 21 16:52	4° Ω 21'14	-0°24'53	evening set	7082 Dec 23 12:30	13° E 34'47	
minimum elong	7077 Jul 21 16:53	4° Ω 21'15	0°24'57	max. Earth dist.	7083 Jan 04 01:17	16° E 03'13	6.48569 AU
max. Earth dist.	7077 Jul 23 18:53	4° Ω 51'25	5.94642 AU	conjunction	7083 Jan 05 11:17	16° E 21'32	0°38'19
morning rise	7077 Aug 04 08:39	7° Ω 38'19		minimum elong	7083 Jan 05 11:18	16° E 21'33	0°38'23
	7077 Sep 05 05:31	15° Ω		morning rise	7083 Jan 18 07:40	19° E 07'13	
retrograde	7077 Dec 13 11:56	28° Ω 03'38			7083 Mar 15 04:34	0° \approx	
min. Earth dist.	7078 Feb 09 10:01	23° Ω 12'06	4.00029 AU	retrograde	7083 May 18 16:25	5° \approx 47'25	
opposition	7078 Feb 10 23:54	22° Ω 59'13	-0°13'44	opposition	7083 Jul 18 15:09	0° \approx 54'36	0°40'40
direct	7078 Apr 10 02:41	18° Ω 02'23		min. Earth dist.	7083 Jul 19 22:24	0° \approx 44'37	4.45975 AU
asc. node	7078 Jun 04 21:20	22° Ω 51'38			7083 Jul 25 18:59	30° R E	
	7078 Jul 12 14:37	0° Π		direct	7083 Sep 19 09:07	25° E 53'15	
evening set	7078 Aug 14 18:05	7° Π 26'54			7083 Nov 13 00:23	0° \approx	
conjunction	7078 Aug 28 10:31	10° Π 38'22	0°06'46	evening set	7084 Jan 22 19:34	13° \approx 19'54	
minimum elong	7078 Aug 28 10:30	10° Π 38'22	0°06'44		7084 Jan 30 10:52	15° \approx	
behind sun begin	7078 Aug 28 02:43	10° Π 33'50		max. Earth dist.	7084 Feb 02 10:57	15° \approx 39'31	6.41360 AU
behind sun end	7078 Aug 28 18:18	10° Π 42'54		conjunction	7084 Feb 04 14:51	16° \approx 08'00	0°15'26
max. Earth dist.	7078 Aug 30 22:05	11° Π 13'08	6.07135 AU	minimum elong	7084 Feb 04 14:51	16° \approx 08'00	0°15'30
morning rise	7078 Sep 11 04:15	13° Π 50'09		behind sun begin	7084 Feb 04 12:33	16° \approx 06'45	
	7078 Dec 03 04:11	0° $\underline{\Omega}$		behind sun end	7084 Feb 04 17:10	16° \approx 09'16	
retrograde	7079 Jan 17 06:20	3° $\underline{\Omega}$ 08'13		morning rise	7084 Feb 17 08:27	18° \approx 55'26	
	7079 Mar 03 08:16	30° R Π			7084 Apr 12 23:09	0° X	
min. Earth dist.	7079 Mar 16 11:56	28° Π 16'12	4.15227 AU	retrograde	7084 Jun 18 05:40	6° X 07'15	
opposition	7079 Mar 17 23:31	28° Π 04'09	0°32'18	opposition	7084 Aug 18 03:24	1° X 14'47	0°02'40
direct	7079 May 16 04:05	23° Π 04'43		min. Earth dist.	7084 Aug 19 18:34	1° X 02'16	4.35149 AU
	7079 Jul 24 20:01	0° $\underline{\Omega}$			7084 Aug 27 23:47	30° R \approx	
evening set	7079 Sep 19 15:01	11° $\underline{\Omega}$ 41'05		desc. node	7084 Sep 12 16:17	28° \approx 12'52	
conjunction	7079 Oct 03 05:41	14° $\underline{\Omega}$ 44'18	0°34'29	direct	7084 Oct 19 09:45	26° \approx 14'43	
minimum elong	7079 Oct 03 05:39	14° $\underline{\Omega}$ 44'18	0°34'30		7084 Dec 09 17:21	0° X	
max. Earth dist.	7079 Oct 05 06:08	15° $\underline{\Omega}$ 11'32	6.23667 AU	evening set	7085 Feb 21 20:42	14° X 13'45	
morning rise	7079 Oct 16 19:48	17° $\underline{\Omega}$ 46'59		max. Earth dist.	7085 Mar 04 08:40	16° X 35'56	6.27697 AU
	7079 Dec 16 13:51	0° Π		conjunction	7085 Mar 06 14:44	17° X 06'35	-0°12'34
retrograde	7080 Feb 18 10:16	5° Π 51'27		minimum elong	7085 Mar 06 14:43	17° X 06'34	0°12'33
opposition	7080 Apr 18 12:59	0° Π 50'05	1°04'25	behind sun begin	7085 Mar 06 09:30	17° X 03'38	
min. Earth dist.	7080 Apr 17 13:12	0° Π 58'01	4.31570 AU	behind sun end	7085 Mar 06 19:57	17° X 09'31	
	7080 Apr 24 20:08	30° R $\underline{\Omega}$		morning rise	7085 Mar 19 07:44	19° X 59'15	
direct	7080 Jun 18 00:21	25° $\underline{\Omega}$ 48'57			7085 May 05 19:50	0° Y	
	7080 Aug 11 01:41	0° Π		retrograde	7085 Jul 22 01:13	8° Y 09'40	
evening set	7080 Oct 22 06:29	13° Π 41'03		opposition	7085 Sep 20 16:55	3° Y 16'14	-0°38'33
	7080 Oct 28 07:55	15° Π		min. Earth dist.	7085 Sep 22 04:56	3° Y 04'39	4.19490 AU
conjunction	7080 Nov 04 15:53	16° Π 35'54	0°50'03		7085 Oct 18 11:03	30° R X	
minimum elong	7080 Nov 04 15:52	16° Π 35'53	0°50'06	direct	7085 Nov 20 20:35	28° X 18'18	
max. Earth dist.	7080 Nov 05 12:41	16° Π 47'14	6.38543 AU		7085 Dec 24 01:14	0° Y	
morning rise	7080 Nov 17 23:48	19° Π 29'46		evening set	7086 Mar 26 13:36	17° Y 03'33	
	7081 Jan 09 18:37	0° X		max. Earth dist.	7086 Apr 06 14:22	19° Y 38'41	6.11297 AU
retrograde	7081 Mar 19 21:27	6° X 37'58		conjunction	7086 Apr 08 08:41	20° Y 03'34	-0°37'57
opposition	7081 May 19 08:27	1° X 40'08	1°15'54	minimum elong	7086 Apr 08 08:39	20° Y 03'34	0°37'59

morning rise	7086 Apr 21 04:24	23° Υ 04'12		retrograde	7092 Feb 22 17:06	10° \mathbb{M} 18'36	
	7086 May 21 18:59	0° \mathcal{B}		opposition	7092 Apr 22 20:19	5° \mathbb{M} 17'44	1°07'15
retrograde	7086 Aug 27 11:08	12° \mathcal{B} 28'56		min. Earth dist.	7092 Apr 21 23:55	5° \mathbb{M} 24'31	4.33394 AU
opposition	7086 Oct 26 16:55	7° \mathcal{B} 33'10	-1°09'57	direct	7092 Jun 22 12:27	0° \mathbb{M} 16'27	
min. Earth dist.	7086 Oct 27 12:47	7° \mathcal{B} 26'40	4.03647 AU		7092 Oct 12 07:49	15° \mathbb{M}	
direct	7086 Dec 25 10:18	2° \mathcal{B} 37'34		evening set	7092 Oct 26 17:24	18° \mathbb{M} 04'26	
	7087 Mar 30 14:38	15° \mathcal{B}					
evening set	7087 Apr 30 11:05	22° \mathcal{B} 09'31		conjunction	7092 Nov 09 02:14	20° \mathbb{M} 58'28	0°51'02
				minimum elong	7092 Nov 09 02:13	20° \mathbb{M} 58'28	0°51'06
conjunction	7087 May 13 10:56	25° \mathcal{B} 17'45	-0°51'16	max. Earth dist.	7092 Nov 09 20:01	21° \mathbb{M} 08'08	6.39925 AU
minimum elong	7087 May 13 10:56	25° \mathcal{B} 17'45	0°51'20	morning rise	7092 Nov 22 09:08	23° \mathbb{M} 51'26	
max. Earth dist.	7087 May 12 22:59	25° \mathcal{B} 10'31	5.97465 AU		7092 Dec 21 19:35	0° \mathcal{A}	
morning rise	7087 May 26 12:29	28° \mathcal{B} 27'11		retrograde	7093 Mar 23 23:41	10° \mathcal{A} 54'57	
	7087 Jun 01 23:34	0° \mathbb{I}		opposition	7093 May 23 12:26	5° \mathcal{A} 57'38	1°15'48
retrograde	7087 Oct 04 21:31	18° \mathbb{I} 56'17		min. Earth dist.	7093 May 23 10:07	5° \mathcal{A} 58'23	4.44847 AU
opposition	7087 Dec 03 14:55	13° \mathbb{I} 57'14	-1°16'36	direct	7093 Jul 24 07:49	0° \mathcal{A} 55'43	
min. Earth dist.	7087 Dec 03 11:10	13° \mathbb{I} 58'29	3.93290 AU	evening set	7093 Nov 27 06:29	18° \mathcal{A} 17'25	
direct	7088 Jan 31 02:06	9° \mathbb{I} 03'04					
evening set	7088 Jun 05 10:24	29° \mathbb{I} 02'35		conjunction	7093 Dec 10 09:27	21° \mathcal{A} 06'03	0°49'55
	7088 Jun 09 08:50	0° \mathcal{E}		minimum elong	7093 Dec 10 09:27	21° \mathcal{A} 06'04	0°49'59
				max. Earth dist.	7093 Dec 09 20:39	20° \mathcal{A} 59'11	6.47897 AU
conjunction	7088 Jun 18 17:26	2° \mathcal{E} 17'02	-0°45'07	morning rise	7093 Dec 23 10:13	23° \mathcal{A} 53'34	
minimum elong	7088 Jun 18 17:28	2° \mathcal{E} 17'03	0°45'11		7094 Jan 22 01:22	0° \mathcal{B}	
max. Earth dist.	7088 Jun 19 17:03	2° \mathcal{E} 31'27	5.91588 AU	retrograde	7094 Apr 22 18:40	10° \mathcal{B} 31'57	
morning rise	7088 Jul 02 03:18	5° \mathcal{E} 32'58		opposition	7094 Jun 22 13:14	5° \mathcal{B} 37'35	1°04'08
retrograde	7088 Nov 11 10:28	26° \mathcal{E} 23'34		min. Earth dist.	7094 Jun 23 07:03	5° \mathcal{B} 31'51	4.48954 AU
opposition	7089 Jan 09 22:47	21° \mathcal{E} 21'01	-0°52'01	direct	7094 Aug 24 03:37	0° \mathcal{B} 35'41	
min. Earth dist.	7089 Jan 08 19:38	21° \mathcal{E} 30'12	3.92685 AU	evening set	7094 Dec 27 18:00	17° \mathcal{B} 51'10	
direct	7089 Mar 08 19:07	16° \mathcal{E} 26'10		max. Earth dist.	7095 Jan 08 03:04	20° \mathcal{B} 17'56	6.47821 AU
	7089 Jun 16 06:02	0° \mathcal{O}					
evening set	7089 Jul 13 09:29	6° \mathcal{O} 19'40		conjunction	7095 Jan 09 16:16	20° \mathcal{B} 37'59	0°35'36
				minimum elong	7095 Jan 09 16:17	20° \mathcal{B} 38'00	0°35'40
conjunction	7089 Jul 26 23:21	9° \mathcal{O} 35'06	-0°20'45	morning rise	7095 Jan 22 12:12	23° \mathcal{B} 23'48	
minimum elong	7089 Jul 26 23:22	9° \mathcal{O} 35'07	0°20'48		7095 Feb 23 11:41	0° \approx	
max. Earth dist.	7089 Jul 29 03:06	10° \mathcal{O} 06'11	5.96274 AU	retrograde	7095 May 23 00:03	10° \approx 07'10	
morning rise	7089 Aug 09 15:36	12° \mathcal{O} 51'35		opposition	7095 Jul 22 22:57	5° \approx 14'25	0°35'51
	7089 Aug 18 16:58	15° \mathcal{O}		min. Earth dist.	7095 Jul 24 06:54	5° \approx 04'12	4.44755 AU
	7089 Nov 03 14:42	0° \mathbb{P}		direct	7095 Sep 23 15:19	0° \approx 13'11	
retrograde	7089 Dec 18 10:27	3° \mathbb{P} 08'03			7096 Jan 14 11:33	15° \approx	
	7090 Feb 01 07:23	30° \mathcal{R} 0		evening set	7096 Jan 27 02:40	17° \approx 43'30	
min. Earth dist.	7090 Feb 14 09:17	28° \mathcal{O} 16'15	4.02095 AU	max. Earth dist.	7096 Feb 06 18:21	20° \approx 03'46	6.39753 AU
opposition	7090 Feb 15 22:34	28° \mathcal{O} 03'33	-0°07'05				
direct	7090 Apr 15 05:24	23° \mathcal{O} 06'21		conjunction	7096 Feb 08 21:44	20° \approx 32'05	0°11'39
asc. node	7090 Apr 15 16:40	23° \mathcal{O} 06'22		minimum elong	7096 Feb 08 21:45	20° \approx 32'05	0°11'42
	7090 Jun 22 08:15	0° \mathbb{P}		behind sun begin	7096 Feb 08 16:05	20° \approx 28'59	
evening set	7090 Aug 19 18:30	12° \mathbb{P} 23'53		behind sun end	7096 Feb 09 03:25	20° \approx 35'12	
				morning rise	7096 Feb 21 14:59	23° \approx 20'02	
conjunction	7090 Sep 02 11:02	15° \mathbb{P} 34'19	0°11'02		7096 Mar 24 03:56	0° \mathcal{H}	
minimum elong	7090 Sep 02 11:02	15° \mathbb{P} 34'19	0°11'01	retrograde	7096 Jun 22 19:50	10° \mathcal{H} 38'21	
behind sun begin	7090 Sep 02 04:49	15° \mathbb{P} 30'43		desc. node	7096 Jul 23 06:07	9° \mathcal{H} 14'19	
behind sun end	7090 Sep 02 17:14	15° \mathbb{P} 37'54		opposition	7096 Aug 22 17:06	5° \mathcal{H} 45'48	-0°03'12
max. Earth dist.	7090 Sep 04 22:46	16° \mathbb{P} 08'58	6.09442 AU	min. Earth dist.	7096 Aug 24 08:32	5° \mathcal{H} 33'12	4.33242 AU
morning rise	7090 Sep 16 04:26	18° \mathbb{P} 44'54		direct	7096 Oct 23 20:41	0° \mathcal{H} 45'59	
	7090 Nov 08 01:47	0° \mathcal{U}		evening set	7097 Feb 26 08:00	18° \mathcal{H} 50'22	
retrograde	7091 Jan 21 19:07	7° \mathcal{U} 52'23		max. Earth dist.	7097 Mar 08 19:35	21° \mathcal{H} 13'04	6.25610 AU
min. Earth dist.	7091 Mar 21 02:42	3° \mathcal{U} 00'23	4.17552 AU				
opposition	7091 Mar 22 13:24	2° \mathcal{U} 48'41	0°37'46	conjunction	7097 Mar 11 01:52	21° \mathcal{H} 43'59	-0°16'30
	7091 Apr 13 18:13	30° \mathcal{R} 0		minimum elong	7097 Mar 11 01:51	21° \mathcal{H} 43'58	0°16'29
direct	7091 May 20 20:49	27° \mathbb{P} 49'02		morning rise	7097 Mar 23 19:11	24° \mathcal{H} 37'34	
	7091 Jun 27 08:04	0° \mathcal{U}			7097 Apr 17 02:08	0° \mathcal{Y}	
evening set	7091 Sep 24 08:24	16° \mathcal{U} 18'59		retrograde	7097 Jul 26 23:18	12° \mathcal{Y} 57'08	
				opposition	7097 Sep 25 14:10	8° \mathcal{Y} 03'20	-0°43'53
conjunction	7091 Oct 07 22:19	19° \mathcal{U} 21'01	0°37'26	min. Earth dist.	7097 Sep 27 00:16	7° \mathcal{Y} 52'20	4.17347 AU
minimum elong	7091 Oct 07 22:18	19° \mathcal{U} 21'00	0°37'28	direct	7097 Nov 25 13:48	3° \mathcal{Y} 05'37	
max. Earth dist.	7091 Oct 09 17:35	19° \mathcal{U} 45'13	6.25815 AU	evening set	7098 Mar 31 06:53	21° \mathcal{Y} 56'56	
morning rise	7091 Oct 21 11:51	22° \mathcal{U} 22'28		max. Earth dist.	7098 Apr 11 12:41	24° \mathcal{Y} 35'40	6.09276 AU
	7091 Nov 26 10:16	0° \mathbb{M}					

conjunction	7098 Apr 13 02:31	24° Υ 58'01 -0°40'45
minimum elong	7098 Apr 13 02:30	24° Υ 58'00 0°40'47
morning rise	7098 Apr 25 22:40	27° Υ 59'44
	7098 May 04 12:48	0° \mathcal{B}
	7098 Jul 22 19:26	15° \mathcal{B}
retrograde	7098 Sep 01 17:22	17° \mathcal{B} 33'53
	7098 Oct 12 23:08	15° $\mathcal{R}\mathcal{B}$
opposition	7098 Oct 31 21:08	12° \mathcal{B} 37'43 -1°12'37
min. Earth dist.	7098 Nov 01 14:41	12° \mathcal{B} 31'57 4.01929 AU
direct	7098 Dec 30 10:25	7° \mathcal{B} 42'23
	7099 Mar 10 14:40	15° \mathcal{B}
evening set	7099 May 05 11:35	27° \mathcal{B} 19'03
	7099 May 16 13:36	0° Π
conjunction	7099 May 18 12:08	0° Π 28'14 -0°51'39
minimum elong	7099 May 18 12:08	0° Π 28'14 0°51'43
max. Earth dist.	7099 May 18 03:20	0° Π 22'54 5.96197 AU
morning rise	7099 May 31 14:53	3° Π 38'45
retrograde	7099 Oct 10 04:49	24° Π 13'28
opposition	7099 Dec 08 22:24	19° Π 13'52 -1°14'57
min. Earth dist.	7099 Dec 08 14:28	19° Π 16'30 3.92632 AU
direct	7100 Feb 05 05:43	14° Π 19'41
	7100 May 24 11:54	0° \mathcal{E}
evening set	7100 Jun 11 15:45	4° \mathcal{E} 20'22
conjunction	7100 Jun 24 23:54	7° \mathcal{E} 35'18 -0°42'37
minimum elong	7100 Jun 24 23:56	7° \mathcal{E} 35'19 0°42'42
max. Earth dist.	7100 Jun 26 04:16	7° \mathcal{E} 52'37 5.91608 AU
morning rise	7100 Jul 08 10:45	10° \mathcal{E} 51'43
	7100 Oct 16 09:05	0° \mathcal{Q}
retrograde	7100 Nov 17 17:03	1° \mathcal{Q} 40'53
	7100 Dec 19 21:36	30° $\mathcal{R}\mathcal{E}$
min. Earth dist.	7101 Jan 15 00:04	26° \mathcal{E} 47'32 3.93371 AU
opposition	7101 Jan 16 04:26	26° \mathcal{E} 37'55 -0°46'32
direct	7101 Mar 15 02:03	21° \mathcal{E} 42'47
	7101 May 28 14:57	0° \mathcal{Q}
evening set	7101 Jul 19 15:14	11° \mathcal{Q} 33'03
conjunction	7101 Aug 02 05:53	14° \mathcal{Q} 48'14 -0°16'27
minimum elong	7101 Aug 02 05:54	14° \mathcal{Q} 48'14 0°16'29
	7101 Aug 03 01:34	15° \mathcal{Q}
max. Earth dist.	7101 Aug 04 13:04	15° \mathcal{Q} 21'14 5.97553 AU
morning rise	7101 Aug 15 22:38	18° \mathcal{Q} 04'18
	7101 Oct 09 09:30	0° \mathcal{P}
retrograde	7101 Dec 24 09:26	8° \mathcal{P} 13'11