

































































































































superior conj	2100 Apr 18 17:12	28° Υ 46'06	-0°36'49			2101 Mar 27 04:06	0° Υ	
minimum elong	2100 Apr 18 19:04	28° Υ 55'53	0°36'26	max. Earth dist.		2101 Mar 28 11:53	2° Υ 33'23	1.35293 AU
	2100 Apr 19 07:14	0° \mathcal{B}						
asc. node	2100 Apr 22 07:03	6° \mathcal{B} 21'03		superior conj		2101 Apr 02 13:40	12° Υ 39'49	-1°04'36
evening rise	2100 Apr 26 01:07	14° \mathcal{B} 17'33		minimum elong		2101 Apr 02 16:55	12° Υ 56'22	1°04'02
	2100 May 04 01:01	0° Π		asc. node		2101 Apr 09 04:05	26° Υ 17'17	
evening max el	2100 May 16 15:45	17° Π 37'48	21°51'22	evening rise		2101 Apr 10 08:48	28° Υ 45'15	
retrograde	2100 May 29 05:06	23° Π 48'17				2101 Apr 10 23:24	0° \mathcal{B}	
desc. node	2100 May 30 12:29	23° Π 44'24		evening max el		2101 Apr 28 19:11	28° \mathcal{B} 39'46	20°28'19
evening set	2100 May 31 19:59	23° Π 32'56				2101 Apr 30 06:35	0° Π	
inferior conj	2100 Jun 10 05:36	19° Π 29'31	-2°58'52	retrograde		2101 May 09 18:17	3° Π 59'06	
minimum elong	2100 Jun 09 22:03	19° Π 40'04	2°56'33	evening set		2101 May 11 19:44	3° Π 48'36	
min. Earth dist.	2100 Jun 09 19:54	19° Π 43'04	0.54991 AU	desc. node		2101 May 17 09:31	1° Π 50'18	
morning rise	2100 Jun 19 01:23	15° Π 35'43		inferior conj		2101 May 20 23:59	29° \mathcal{B} 50'41	-1°03'05
direct	2100 Jun 22 04:02	15° Π 14'22		minimum elong		2101 May 20 21:00	29° \mathcal{B} 55'01	1°01'59
morning max el	2100 Jul 04 05:48	20° Π 54'24	21°43'09			2101 May 20 17:34	30° \mathcal{R} \mathcal{B}	
	2100 Jul 11 20:22	0° \mathcal{E}		min. Earth dist.		2101 May 22 08:29	29° \mathcal{B} 03'32	0.55068 AU
asc. node	2100 Jul 19 06:19	12° \mathcal{E} 26'43		morning rise		2101 May 29 21:15	25° \mathcal{B} 38'26	
morning set	2100 Jul 24 23:02	23° \mathcal{E} 48'14		direct		2101 Jun 02 14:31	25° \mathcal{B} 08'36	
	2100 Jul 27 21:51	0° \mathcal{O}				2101 Jun 14 03:14	0° Π	
				morning max el		2101 Jun 16 00:04	1° Π 38'43	23°23'05
superior conj	2100 Aug 01 05:46	9° \mathcal{O} 07'45	1°40'49			2101 Jul 05 03:46	0° \mathcal{E}	
minimum elong	2100 Aug 01 04:16	8° \mathcal{O} 59'52	1°40'43	asc. node		2101 Jul 06 03:22	1° \mathcal{E} 57'07	
max. Earth dist.	2100 Aug 05 00:26	16° \mathcal{O} 54'39	1.34870 AU	morning set		2101 Jul 09 10:20	8° \mathcal{E} 43'11	
evening rise	2100 Aug 09 11:10	25° \mathcal{O} 41'04						
	2100 Aug 11 17:58	0° \mathcal{M}		superior conj		2101 Jul 16 11:45	23° \mathcal{E} 51'30	1°30'09
desc. node	2100 Aug 26 11:52	24° \mathcal{M} 46'18		minimum elong		2101 Jul 16 09:32	23° \mathcal{E} 39'36	1°29'54
	2100 Aug 30 01:44	0° \mathcal{L}		max. Earth dist.		2101 Jul 18 22:47	29° \mathcal{E} 05'53	1.33601 AU
evening max el	2100 Sep 13 15:57	17° \mathcal{L} 42'08	26°50'29			2101 Jul 19 09:03	0° \mathcal{O}	
retrograde	2100 Sep 26 18:08	24° \mathcal{L} 57'38		evening rise		2101 Jul 24 01:44	9° \mathcal{O} 37'59	
evening set	2100 Oct 03 11:09	22° \mathcal{L} 15'11				2101 Aug 04 03:24	0° \mathcal{M}	
min. Earth dist.	2100 Oct 07 10:45	18° \mathcal{L} 14'43	0.65712 AU	desc. node		2101 Aug 13 08:53	14° \mathcal{M} 22'16	
inferior conj	2100 Oct 09 07:03	16° \mathcal{L} 05'23	-1°59'10			2101 Aug 26 01:48	0° \mathcal{L}	
minimum elong	2100 Oct 09 10:15	15° \mathcal{L} 56'02	1°57'54	evening max el		2101 Aug 27 03:40	1° \mathcal{L} 03'11	27°21'17
morning rise	2100 Oct 15 10:00	10° \mathcal{L} 24'46		retrograde		2101 Sep 09 15:53	8° \mathcal{L} 21'27	
asc. node	2100 Oct 15 05:30	10° \mathcal{L} 30'47		evening set		2101 Sep 16 18:09	5° \mathcal{L} 39'08	
direct	2100 Oct 18 06:11	9° \mathcal{L} 40'10		min. Earth dist.		2101 Sep 20 11:36	2° \mathcal{L} 14'03	0.64323 AU
morning max el	2100 Oct 24 19:49	13° \mathcal{L} 14'37	18°20'25	inferior conj		2101 Sep 22 20:37	29° \mathcal{M} 42'25	-2°57'04
	2100 Nov 05 19:10	0° \mathcal{M}		minimum elong		2101 Sep 23 01:15	29° \mathcal{M} 30'05	2°55'28
morning set	2100 Nov 13 02:16	11° \mathcal{M} 47'57				2101 Sep 22 14:03	30° \mathcal{R} \mathcal{M}	
desc. node	2100 Nov 22 11:10	26° \mathcal{M} 51'49		morning rise		2101 Sep 29 09:23	24° \mathcal{M} 17'08	
	2100 Nov 24 10:34	0° \mathcal{X}		direct		2101 Oct 01 23:30	23° \mathcal{M} 42'58	
				asc. node		2101 Oct 02 02:34	23° \mathcal{M} 43'03	
superior conj	2100 Nov 28 07:39	6° \mathcal{X} 07'37	-0°38'35	morning max el		2101 Oct 08 11:43	27° \mathcal{M} 09'19	17°57'15
minimum elong	2100 Nov 28 02:40	5° \mathcal{X} 48'01	0°37'55			2101 Oct 10 23:51	0° \mathcal{L}	
max. Earth dist.	2100 Nov 30 03:18	8° \mathcal{X} 59'20	1.45135 AU	morning set		2101 Oct 25 17:08	23° \mathcal{L} 23'07	
	2100 Dec 13 13:10	0° \mathcal{Z}				2101 Oct 29 15:00	0° \mathcal{M}	
evening rise	2100 Dec 14 14:01	1° \mathcal{Z} 37'23						
greatest brilliancy	2100 Dec 25 11:36	18° \mathcal{Z} 37'48	-0.8m	superior conj		2101 Nov 07 21:50	15° \mathcal{M} 18'58	0°09'41
	2101 Jan 02 05:43	0° \mathcal{A}		minimum elong		2101 Nov 07 22:57	15° \mathcal{M} 23'29	0°09'31
evening max el	2101 Jan 07 00:33	5° \mathcal{A} 47'17	19°18'25	behind sun begin		2101 Nov 07 14:35	14° \mathcal{M} 49'38	
asc. node	2101 Jan 11 04:45	9° \mathcal{A} 05'12		behind sun end		2101 Nov 08 07:19	15° \mathcal{M} 57'16	
retrograde	2101 Jan 14 02:40	9° \mathcal{A} 51'11		desc. node		2101 Nov 09 08:12	17° \mathcal{M} 37'28	
evening set	2101 Jan 17 12:37	8° \mathcal{A} 43'02		max. Earth dist.		2101 Nov 12 21:59	23° \mathcal{M} 19'52	1.44584 AU
inferior conj	2101 Jan 23 01:47	2° \mathcal{A} 50'56	3°15'25			2101 Nov 17 03:35	0° \mathcal{X}	
minimum elong	2101 Jan 22 23:26	2° \mathcal{A} 58'30	3°14'58	evening rise		2101 Nov 24 02:46	10° \mathcal{X} 48'37	
min. Earth dist.	2101 Jan 24 09:42	1° \mathcal{A} 08'10	0.66212 AU			2101 Dec 06 18:17	0° \mathcal{Z}	
	2101 Jan 25 07:27	30° \mathcal{R} \mathcal{Z}		evening max el		2101 Dec 21 04:28	19° \mathcal{Z} 17'00	20°15'01
morning rise	2101 Jan 28 10:01	26° \mathcal{Z} 38'47		retrograde		2101 Dec 29 00:36	23° \mathcal{Z} 53'25	
direct	2101 Feb 03 17:43	23° \mathcal{Z} 51'15		asc. node		2101 Dec 29 01:49	23° \mathcal{Z} 53'24	
	2101 Feb 14 23:48	0° \mathcal{A}		evening set		2102 Jan 01 18:50	22° \mathcal{Z} 31'13	
morning max el	2101 Feb 16 08:13	1° \mathcal{A} 19'10	26°08'52	inferior conj		2102 Jan 07 04:46	16° \mathcal{Z} 25'54	2°44'18
desc. node	2101 Feb 18 10:20	3° \mathcal{A} 30'57		minimum elong		2102 Jan 07 02:08	16° \mathcal{Z} 34'46	2°43'35
	2101 Mar 09 21:54	0° \mathcal{X}		min. Earth dist.		2102 Jan 07 23:07	15° \mathcal{Z} 23'53	0.67128 AU
morning set	2101 Mar 24 12:35	25° \mathcal{X} 00'09		morning rise		2102 Jan 12 09:16	10° \mathcal{Z} 12'30	

direct	2102 Jan 18 03:12	7°  39'09		morning max el	2103 Jan 12 01:52	27°  52'09	23°20'35
morning max el	2102 Jan 29 16:57	14°  33'28	24°48'45		2103 Jan 14 02:13	0°  3	
desc. node	2102 Feb 05 07:23	22°  04'05		desc. node	2103 Jan 23 04:26	11°  30'10	
	2102 Feb 11 08:02	0°  ≈			2103 Feb 05 00:51	0°  ≈	
	2102 Mar 02 18:44	0°  ✕		morning set	2103 Feb 16 02:14	17°  ≈46'38	
morning set	2102 Mar 06 19:38	7°  ✕00'34		max. Earth dist.	2103 Feb 20 05:57	24°  ≈53'26	1.39263 AU
max. Earth dist.	2102 Mar 10 11:17	13°  ✕36'05	1.37146 AU		2103 Feb 23 03:25	0°  ✕	
superior conj	2102 Mar 17 00:01	25°  ✕59'28	-1°30'21	superior conj	2103 Feb 27 20:13	8°  ✕34'08	-1°51'21
minimum elong	2102 Mar 17 04:13	26°  ✕20'00	1°29'48	minimum elong	2103 Feb 28 00:15	8°  ✕52'53	1°51'01
	2102 Mar 19 00:56	0°  Υ		evening rise	2103 Mar 09 05:20	26°  ✕28'44	
evening rise	2102 Mar 25 11:10	12°  Υ51'46			2103 Mar 11 01:16	0°  Υ	
asc. node	2102 Mar 27 01:08	16°  Υ00'35		asc. node	2103 Mar 13 22:12	5°  Υ24'59	
	2102 Apr 03 15:14	0°  ♄		evening max el	2103 Mar 25 11:48	22°  Υ41'07	18°38'14
evening max el	2102 Apr 11 10:28	10°  ♄21'56	19°23'18	retrograde	2103 Apr 02 08:32	26°  Υ31'48	
retrograde	2102 Apr 20 16:45	14°  ♄50'42		evening set	2103 Apr 04 15:52	26°  Υ13'09	
evening set	2102 Apr 22 18:22	14°  ♄38'17		inferior conj	2103 Apr 12 07:54	21°  Υ48'09	2°19'46
inferior conj	2102 May 01 05:59	10°  ♄31'07	0°51'45	minimum elong	2103 Apr 12 11:53	21°  Υ40'31	2°18'40
minimum elong	2102 May 01 08:06	10°  ♄27'40	0°51'02	min. Earth dist.	2103 Apr 15 17:01	19°  Υ14'34	0.57804 AU
min. Earth dist.	2102 May 03 23:13	8°  ♄44'53	0.56076 AU	morning rise	2103 Apr 20 04:47	16°  Υ29'46	
desc. node	2102 May 04 06:33	8°  ♄33'20		desc. node	2103 Apr 21 03:36	16°  Υ05'04	
morning rise	2102 May 09 18:57	5°  ♄45'47		direct	2103 Apr 25 22:13	15°  Υ07'37	
direct	2102 May 14 11:09	4°  ♄55'57		morning max el	2103 May 10 07:07	22°  Υ43'31	26°30'07
morning max el	2102 May 28 14:40	12°  ♄06'32	25°03'53		2103 May 16 18:19	0°  ♄	
	2102 Jun 11 08:59	0°  ♄			2103 Jun 04 04:39	0°  ♄	
asc. node	2102 Jun 23 00:26	21°  ♄45'36		morning set	2103 Jun 08 08:58	8°  ♄31'48	
morning set	2102 Jun 23 22:13	23°  ♄39'57		asc. node	2103 Jun 09 21:29	11°  ♄45'36	
	2102 Jun 26 21:08	0°  ♄					
superior conj	2102 Jun 30 21:34	8°  ♄46'10	1°14'38	superior conj	2103 Jun 15 09:09	23°  ♄43'45	0°55'05
minimum elong	2102 Jun 30 19:10	8°  ♄33'04	1°14'16	minimum elong	2103 Jun 15 07:03	23°  ♄32'10	0°54'41
max. Earth dist.	2102 Jul 02 04:59	11°  ♄37'13	1.32737 AU	max. Earth dist.	2103 Jun 15 15:55	24°  ♄20'57	1.32270 AU
evening rise	2102 Jul 08 01:30	24°  ♄02'04		evening rise	2103 Jun 18 05:47	0°  ♄	
	2102 Jul 11 00:42	0°  ♄			2103 Jun 22 07:28	8°  ♄42'58	
	2102 Jul 28 19:26	0°  ♄		desc. node	2103 Jul 03 10:04	0°  ♄	
desc. node	2102 Jul 31 05:54	3°  ♄19'03		evening max el	2103 Jul 18 02:54	21°  ♄19'30	
evening max el	2102 Aug 09 12:49	13°  ♄56'48	27°22'40		2103 Jul 22 16:57	26°  ♄10'32	26°51'11
retrograde	2102 Aug 23 07:28	21°  ♄13'36		retrograde	2103 Jul 27 08:25	0°  ♄	
evening set	2102 Aug 30 12:22	18°  ♄43'22		evening set	2103 Aug 05 15:36	3°  ♄23'59	
min. Earth dist.	2102 Sep 03 02:29	15°  ♄47'37	0.62597 AU		2103 Aug 12 13:20	1°  ♄19'35	
inferior conj	2102 Sep 05 23:40	13°  ♄03'11	-3°50'39	min. Earth dist.	2103 Aug 14 13:46	30°  ♄	
minimum elong	2102 Sep 06 05:03	12°  ♄50'21	3°49'13	inferior conj	2103 Aug 16 07:04	28°  ♄41'01	0.60612 AU
morning rise	2102 Sep 12 23:12	7°  ♄56'23		minimum elong	2103 Aug 19 12:48	25°  ♄58'43	-4°34'02
direct	2102 Sep 15 09:49	7°  ♄29'22		morning rise	2103 Aug 19 17:24	25°  ♄49'03	4°33'18
asc. node	2102 Sep 18 23:39	8°  ♄28'50		direct	2103 Aug 26 23:21	21°  ♄13'09	
morning max el	2102 Sep 22 03:39	10°  ♄56'02	17°51'54	morning max el	2103 Aug 29 09:18	20°  ♄50'33	
	2102 Oct 04 20:55	0°  ♄		asc. node	2103 Sep 05 16:27	24°  ♄26'12	18°05'35
morning set	2102 Oct 08 06:35	6°  ♄03'01			2103 Sep 05 20:42	24°  ♄36'36	
				morning set	2103 Sep 10 06:06	0°  ♄	
superior conj	2102 Oct 19 13:41	25°  ♄46'44	0°50'39		2103 Sep 21 12:33	19°  ♄30'21	
minimum elong	2102 Oct 19 17:58	26°  ♄04'50	0°50'06		2103 Sep 27 04:06	0°  ♄	
	2102 Oct 22 02:02	0°  ♄		superior conj	2103 Oct 01 07:53	7°  ♄31'53	1°19'58
max. Earth dist.	2102 Oct 26 13:00	7°  ♄19'13	1.43374 AU	minimum elong	2103 Oct 01 12:06	7°  ♄50'40	1°19'31
desc. node	2102 Oct 27 05:13	8°  ♄24'50		max. Earth dist.	2103 Oct 08 22:56	20°  ♄43'56	1.41657 AU
evening rise	2102 Nov 03 11:44	19°  ♄55'30		evening rise	2103 Oct 14 09:49	29°  ♄41'10	
	2102 Nov 10 01:37	0°  ♄		desc. node	2103 Oct 14 02:15	29°  ♄10'44	
	2102 Dec 01 13:38	0°  ♄			2103 Oct 14 14:30	0°  ♄	
evening max el	2102 Dec 04 02:45	2°  ♄47'20	21°24'09		2103 Nov 03 15:24	0°  ♄	
retrograde	2102 Dec 12 22:06	8°  ♄01'28		evening max el	2103 Nov 16 19:54	16°  ♄20'00	22°41'31
asc. node	2102 Dec 15 22:53	7°  ♄10'36		retrograde	2103 Nov 26 17:25	22°  ♄12'41	
evening set	2102 Dec 17 02:27	6°  ♄23'50		evening set	2103 Dec 01 09:47	20°  ♄18'26	
inferior conj	2102 Dec 22 10:58	0°  ♄08'37	2°04'58	asc. node	2103 Dec 02 19:55	18°  ♄57'41	
minimum elong	2102 Dec 22 08:35	0°  ♄16'53	2°04'08	inferior conj	2103 Dec 06 18:26	13°  ♄57'01	1°19'02
min. Earth dist.	2102 Dec 22 17:18	29°  ♄46'44	0.67661 AU	minimum elong	2103 Dec 06 16:43	14°  ♄02'57	1°18'21
	2102 Dec 22 13:27	30°  ♄		min. Earth dist.	2103 Dec 06 13:47	14°  ♄13'07	0.67841 AU
morning rise	2102 Dec 27 14:31	23°  ♄55'53		morning rise	2103 Dec 11 23:30	7°  ♄46'58	
direct	2103 Jan 01 17:33	21°  ♄42'42		direct	2103 Dec 16 11:47	5°  ♄56'30	

morning max el	2103 Dec 25 14:20	11° ♊ 17'26	21°53'55	direct	2104 Nov 29 08:44	20° ♍ 15'11	
	2104 Jan 09 06:42	0° ♊		morning max el	2104 Dec 07 09:38	24° ♍ 53'10	20°35'54
desc. node	2104 Jan 10 01:28	1° ♊ 07'15			2104 Dec 11 21:11	0° ♊	
morning set	2104 Jan 27 03:44	27° ♊ 08'28		desc. node	2104 Dec 26 22:30	21° ♊ 16'20	
	2104 Jan 28 22:17	0° ♊			2105 Jan 01 16:35	0° ♊	
max. Earth dist.	2104 Feb 02 04:08	6° ♊ 58'37	1.41384 AU	morning set	2105 Jan 05 04:57	5° ♊ 25'26	
				max. Earth dist.	2105 Jan 14 10:16	20° ♊ 01'05	1.43213 AU
superior conj	2104 Feb 09 21:20	20° ♊ 12'16	-2°03'42				
minimum elong	2104 Feb 09 23:07	20° ♊ 20'07	2°03'39	superior conj	2105 Jan 20 22:10	0° ♊ 41'21	-2°02'30
	2104 Feb 15 08:25	0° ♊		minimum elong	2105 Jan 20 19:10	0° ♊ 28'46	2°02'25
evening rise	2104 Feb 20 11:53	9° ♊ 28'16			2105 Jan 20 12:16	0° ♊	
asc. node	2104 Feb 28 19:14	24° ♊ 24'10		evening rise	2105 Feb 02 02:41	21° ♊ 41'25	
	2104 Mar 03 08:44	0° ♊			2105 Feb 06 20:04	0° ♊	
evening max el	2104 Mar 07 20:01	5° ♊ 29'07	18°13'12	asc. node	2105 Feb 14 16:15	12° ♊ 49'33	
retrograde	2104 Mar 14 18:54	8° ♊ 58'26		evening max el	2105 Feb 19 07:47	18° ♊ 36'09	18°07'45
evening set	2104 Mar 17 08:16	8° ♊ 30'57		retrograde	2105 Feb 25 20:12	21° ♊ 59'43	
inferior conj	2104 Mar 24 06:49	3° ♊ 44'56	3°14'01	evening set	2105 Feb 28 14:51	21° ♊ 22'06	
minimum elong	2104 Mar 24 09:53	3° ♊ 38'05	3°13'29	inferior conj	2105 Mar 06 23:43	16° ♊ 15'16	3°39'08
min. Earth dist.	2104 Mar 27 15:51	0° ♊ 46'07	0.59903 AU	minimum elong	2105 Mar 07 00:51	16° ♊ 12'24	3°39'04
	2104 Mar 28 14:22	30° ♊		min. Earth dist.	2105 Mar 09 22:24	13° ♊ 16'09	0.62028 AU
morning rise	2104 Mar 31 09:15	28° ♊ 02'22		morning rise	2105 Mar 13 09:30	10° ♊ 17'32	
direct	2104 Apr 06 21:47	26° ♊ 03'36		direct	2105 Mar 20 07:11	7° ♊ 48'05	
desc. node	2104 Apr 07 00:37	26° ♊ 03'38		desc. node	2105 Mar 24 21:39	8° ♊ 47'25	
	2104 Apr 16 18:09	0° ♊		morning max el	2105 Apr 03 09:24	15° ♊ 43'15	27°49'49
morning max el	2104 Apr 21 05:08	3° ♊ 52'37	27°28'00		2105 Apr 15 01:54	0° ♊	
	2104 May 10 09:50	0° ♊			2105 May 02 23:43	0° ♊	
morning set	2104 May 22 16:51	23° ♊ 13'10		morning set	2105 May 06 19:56	7° ♊ 37'26	
	2104 May 25 21:42	0° ♊		max. Earth dist.	2105 May 12 13:38	19° ♊ 41'32	1.32495 AU
asc. node	2104 May 26 18:31	1° ♊ 52'29		asc. node	2105 May 13 15:33	22° ♊ 01'51	
max. Earth dist.	2104 May 29 04:05	7° ♊ 06'48	1.32190 AU				
superior conj	2104 May 29 20:46	8° ♊ 38'24	0°32'11	superior conj	2105 May 14 06:42	23° ♊ 24'13	0°06'40
minimum elong	2104 May 29 19:22	8° ♊ 30'46	0°31'54	minimum elong	2105 May 14 06:23	23° ♊ 22'30	0°06'37
evening rise	2104 Jun 05 17:16	23° ♊ 33'00		behind sun begin	2105 May 14 01:41	22° ♊ 56'53	
	2104 Jun 08 19:57	0° ♊		behind sun end	2105 May 14 11:06	23° ♊ 48'08	
	2104 Jun 26 19:32	0° ♊			2105 May 17 07:14	0° ♊	
evening max el	2104 Jul 03 14:11	7° ♊ 37'32	25°47'54	evening rise	2105 May 21 04:54	8° ♊ 25'10	
desc. node	2104 Jul 03 23:55	8° ♊ 00'28			2105 Jun 01 10:11	0° ♊	
retrograde	2104 Jul 17 14:23	14° ♊ 46'32		evening max el	2105 Jun 15 05:10	18° ♊ 23'33	24°21'07
evening set	2104 Jul 23 16:20	13° ♊ 18'35		desc. node	2105 Jun 20 20:54	22° ♊ 51'09	
min. Earth dist.	2104 Jul 28 02:32	10° ♊ 40'11	0.58553 AU	retrograde	2105 Jun 29 01:53	25° ♊ 23'24	
inferior conj	2104 Jul 31 08:28	8° ♊ 19'08	-4°57'42	evening set	2105 Jul 03 19:52	24° ♊ 33'01	
minimum elong	2104 Jul 31 09:51	8° ♊ 16'36	4°57'38	min. Earth dist.	2105 Jul 09 16:02	21° ♊ 37'27	0.56692 AU
morning rise	2104 Aug 08 05:37	3° ♊ 56'18		inferior conj	2105 Jul 12 08:07	19° ♊ 56'23	-4°48'05
direct	2104 Aug 10 17:39	3° ♊ 36'03		minimum elong	2105 Jul 12 04:12	20° ♊ 02'37	4°47'40
morning max el	2104 Aug 18 22:53	7° ♊ 30'44	18°39'35	morning rise	2105 Jul 20 15:13	15° ♊ 54'05	
asc. node	2104 Aug 22 17:44	11° ♊ 51'12		direct	2105 Jul 23 07:11	15° ♊ 34'59	
	2104 Sep 02 10:22	0° ♊		morning max el	2105 Aug 01 20:06	20° ♊ 00'55	19°34'55
morning set	2104 Sep 04 06:07	3° ♊ 31'24		asc. node	2105 Aug 09 14:46	29° ♊ 58'23	
					2105 Aug 09 15:10	0° ♊	
superior conj	2104 Sep 12 23:33	20° ♊ 20'33	1°37'34	morning set	2105 Aug 19 07:45	17° ♊ 56'39	
minimum elong	2104 Sep 13 02:09	20° ♊ 32'45	1°37'23		2105 Aug 25 07:22	0° ♊	
	2104 Sep 18 05:45	0° ♊		superior conj	2105 Aug 27 07:14	3° ♊ 57'36	1°45'05
max. Earth dist.	2104 Sep 20 04:28	3° ♊ 27'13	1.39652 AU	minimum elong	2105 Aug 27 07:57	4° ♊ 01'06	1°45'04
evening rise	2104 Sep 24 06:36	10° ♊ 29'50		max. Earth dist.	2105 Sep 02 08:40	15° ♊ 34'10	1.37612 AU
desc. node	2104 Sep 29 23:16	19° ♊ 51'11		evening rise	2105 Sep 06 03:02	22° ♊ 24'57	
	2104 Oct 06 12:09	0° ♊			2105 Sep 10 11:54	0° ♊	
	2104 Oct 29 11:08	0° ♊		desc. node	2105 Sep 16 20:17	10° ♊ 22'07	
evening max el	2104 Oct 29 09:31	29° ♊ 56'00	24°01'29		2105 Sep 30 08:16	0° ♊	
retrograde	2104 Nov 09 09:18	6° ♊ 23'27		evening max el	2105 Oct 11 21:33	13° ♊ 35'19	25°17'17
evening set	2104 Nov 14 15:15	4° ♊ 12'10		retrograde	2105 Oct 23 20:58	20° ♊ 29'58	
	2104 Nov 18 10:08	30° ♊		evening set	2105 Oct 29 17:13	18° ♊ 02'59	
asc. node	2104 Nov 18 16:57	29° ♊ 37'33		min. Earth dist.	2105 Nov 03 04:02	13° ♊ 05'35	0.67193 AU
min. Earth dist.	2104 Nov 19 10:07	28° ♊ 40'04	0.67686 AU	inferior conj	2105 Nov 04 06:05	11° ♊ 41'03	-0°27'28
inferior conj	2104 Nov 20 01:22	27° ♊ 48'26	0°27'47	minimum elong	2105 Nov 04 06:46	11° ♊ 38'47	0°27'10
minimum elong	2104 Nov 20 00:42	27° ♊ 50'41	0°27'30	asc. node	2105 Nov 05 13:58	9° ♊ 59'04	
morning rise	2104 Nov 25 10:09	21° ♊ 43'21		morning rise	2105 Nov 09 20:33	5° ♊ 43'20	

direct	2105 Nov 13 07:06	4°♄35'04		inferior conj	2106 Oct 19 06:39	25°♄31'02	-1°25'22
morning max el	2105 Nov 20 12:55	8°♄40'20	19°30'58	minimum elong	2106 Oct 19 08:55	25°♄24'06	1°24'25
greatest brilliancy	2105 Dec 03 22:03	26°♄33'51	-0.7m	asc. node	2106 Oct 23 11:01	20°♄58'00	
	2105 Dec 06 04:39	0°♄		morning rise	2106 Oct 25 04:36	19°♄43'22	
desc. node	2105 Dec 13 19:33	11°♄41'35		direct	2106 Oct 28 05:16	18°♄51'23	
morning set	2105 Dec 15 02:49	13°♄42'27		morning max el	2106 Nov 03 22:59	22°♄34'35	18°41'24
	2105 Dec 25 13:32	0°♄			2106 Nov 09 22:35	0°♄	
max. Earth dist.	2105 Dec 27 23:29	3°♄48'42	1.44508 AU	morning set	2106 Nov 24 20:48	23°♄04'40	
					2106 Nov 29 05:43	0°♄	
superior conj	2105 Dec 31 20:47	10°♄00'07	-1°43'14	desc. node	2106 Nov 30 16:37	2°♄17'45	
minimum elong	2105 Dec 31 12:45	9°♄27'57	1°42'35	max. Earth dist.	2106 Dec 10 16:57	18°♄02'30	1.45115 AU
	2106 Jan 13 02:11	0°♄					
evening rise	2106 Jan 14 21:34	3°♄01'23		superior conj	2106 Dec 11 00:45	18°♄33'10	-1°05'41
	2106 Feb 01 02:33	0°♄		minimum elong	2106 Dec 10 16:50	18°♄02'06	1°04'44
asc. node	2106 Feb 01 13:16	0°♄31'27			2106 Dec 18 07:14	0°♄	
evening max el	2106 Feb 02 20:15	1°♄55'24	18°21'13	evening rise	2106 Dec 26 17:22	13°♄23'55	
retrograde	2106 Feb 09 07:52	5°♄26'22		greatest brilliancy	2107 Jan 03 10:00	25°♄42'45	-0.9m
evening set	2106 Feb 12 07:42	4°♄37'48			2107 Jan 06 03:09	0°♄	
	2106 Feb 17 13:33	30°♄		evening max el	2107 Jan 17 06:59	15°♄21'56	18°52'44
inferior conj	2106 Feb 18 06:36	29°♄11'46	3°42'06	asc. node	2107 Jan 19 10:17	17°♄17'41	
minimum elong	2106 Feb 18 05:55	29°♄13'44	3°42'05	retrograde	2107 Jan 24 01:52	19°♄11'15	
min. Earth dist.	2106 Feb 20 14:32	26°♄32'50	0.63937 AU	evening set	2107 Jan 27 07:41	18°♄10'45	
morning rise	2106 Feb 24 03:24	23°♄05'23		inferior conj	2107 Feb 01 23:41	12°♄27'39	3°28'48
direct	2106 Mar 03 00:52	20°♄17'41		minimum elong	2107 Feb 01 21:45	12°♄33'37	3°28'32
desc. node	2106 Mar 11 18:42	23°♄50'21		min. Earth dist.	2107 Feb 03 16:12	10°♄22'04	0.65495 AU
morning max el	2106 Mar 16 17:56	28°♄11'54	27°34'37	morning rise	2107 Feb 07 11:27	6°♄16'44	
	2106 Mar 18 11:34	0°♄		direct	2107 Feb 14 01:37	3°♄25'09	
	2106 Apr 08 20:18	0°♄		desc. node	2107 Feb 26 15:46	10°♄37'18	
morning set	2106 Apr 20 15:41	21°♄36'15		morning max el	2107 Feb 27 03:49	11°♄07'16	26°47'20
	2106 Apr 24 19:02	0°♄			2107 Mar 14 04:22	0°♄	
max. Earth dist.	2106 Apr 25 16:22	1°♄51'07	1.33219 AU		2107 Apr 01 08:57	0°♄	
				morning set	2107 Apr 04 00:53	5°♄00'00	
superior conj	2106 Apr 28 13:08	7°♄54'55	-0°20'41	max. Earth dist.	2107 Apr 08 08:41	13°♄27'21	1.34398 AU
minimum elong	2106 Apr 28 14:10	8°♄00'23	0°20'28				
asc. node	2106 Apr 30 12:34	12°♄09'15		superior conj	2107 Apr 12 14:00	22°♄04'30	-0°48'43
evening rise	2106 May 05 16:29	23°♄12'29		minimum elong	2107 Apr 12 16:29	22°♄17'20	0°48'14
	2106 May 08 23:23	0°♄			2107 Apr 16 08:46	0°♄	
evening max el	2106 May 27 19:21	28°♄51'43	22°45'01	asc. node	2107 Apr 17 09:37	2°♄10'54	
	2106 May 29 00:46	0°♄		evening rise	2107 Apr 20 02:12	7°♄49'09	
desc. node	2106 Jun 07 17:55	5°♄14'52			2107 May 02 01:21	0°♄	
retrograde	2106 Jun 10 01:12	5°♄27'00		evening max el	2107 May 09 16:35	9°♄35'06	21°14'12
evening set	2106 Jun 13 07:42	5°♄03'29		retrograde	2107 May 21 15:14	15°♄25'02	
min. Earth dist.	2106 Jun 21 03:38	1°♄37'03	0.55370 AU	evening set	2107 May 23 21:55	15°♄13'02	
inferior conj	2106 Jun 22 12:55	0°♄49'20	-3°52'22	desc. node	2107 May 25 14:56	14°♄49'13	
minimum elong	2106 Jun 22 05:07	1°♄00'32	3°50'29	inferior conj	2107 Jun 02 07:10	11°♄14'05	-2°12'01
	2106 Jun 23 23:38	30°♄		minimum elong	2107 Jun 02 01:06	11°♄22'37	2°09'56
morning rise	2106 Jul 01 04:53	26°♄57'28		min. Earth dist.	2107 Jun 02 15:52	11°♄01'50	0.54897 AU
direct	2106 Jul 04 02:14	26°♄38'06		morning rise	2107 Jun 11 04:32	7°♄14'27	
	2106 Jul 13 02:15	0°♄		direct	2107 Jun 14 12:08	6°♄50'36	
morning max el	2106 Jul 15 06:08	1°♄48'43	20°51'09	morning max el	2107 Jun 27 05:15	12°♄53'20	22°24'38
asc. node	2106 Jul 27 11:49	18°♄45'12			2107 Jul 09 23:52	0°♄	
	2106 Aug 02 07:51	0°♄		asc. node	2107 Jul 14 08:54	8°♄01'55	
morning set	2106 Aug 03 14:44	2°♄37'48		morning set	2107 Jul 19 00:59	17°♄28'59	
					2107 Jul 24 22:23	0°♄	
superior conj	2106 Aug 11 02:15	18°♄08'35	1°44'21	superior conj	2107 Jul 26 05:03	2°♄42'46	1°36'57
minimum elong	2106 Aug 11 01:24	18°♄04'15	1°44'19	minimum elong	2107 Jul 26 03:11	2°♄32'51	1°36'48
max. Earth dist.	2106 Aug 15 16:48	27°♄24'11	1.35772 AU	max. Earth dist.	2107 Jul 29 09:33	9°♄22'57	1.34279 AU
	2106 Aug 17 00:47	0°♄		evening rise	2107 Aug 03 03:08	18°♄53'41	
evening rise	2106 Aug 19 19:25	5°♄16'54			2107 Aug 09 01:20	0°♄	
	2106 Sep 03 07:35	0°♄		desc. node	2107 Aug 21 14:17	20°♄30'08	
desc. node	2106 Sep 03 17:18	0°♄37'26			2107 Aug 28 10:44	0°♄	
evening max el	2106 Sep 24 09:31	27°♄14'01	26°21'37	evening max el	2107 Sep 06 21:47	10°♄45'07	27°06'49
	2106 Sep 27 11:50	0°♄		retrograde	2107 Sep 20 05:10	18°♄03'07	
retrograde	2106 Oct 07 03:48	4°♄25'34		evening set	2107 Sep 27 02:32	15°♄19'33	
evening set	2106 Oct 13 13:45	1°♄46'47		min. Earth dist.	2107 Sep 30 23:20	11°♄34'16	0.65163 AU
	2106 Oct 15 10:52	30°♄		inferior conj	2107 Oct 03 00:59	9°♄14'30	-2°24'00
min. Earth dist.	2106 Oct 17 17:12	27°♄25'23	0.66353 AU				

minimum elong	2107 Oct 03 04:50	9° Ω 03'38	2°22'33	retrograde	2108 Sep 02 00:21	1° Ω 14'24	
morning rise	2107 Oct 09 07:57	3° Ω 39'51			2108 Sep 06 22:40	30° \mathbb{R} \mathbb{M}	
asc. node	2107 Oct 10 08:06	3° Ω 16'02		evening set	2108 Sep 09 04:37	28° \mathbb{M} 36'01	
direct	2107 Oct 12 01:08	3° Ω 00'15		min. Earth dist.	2108 Sep 12 20:17	25° \mathbb{M} 24'10	0.63623 AU
morning max el	2107 Oct 18 13:30	6° Ω 30'35	18°08'19	inferior conj	2108 Sep 15 10:30	22° \mathbb{M} 45'57	-3°20'36
	2107 Nov 03 11:22	0° \mathbb{M}		minimum elong	2108 Sep 15 15:35	22° \mathbb{M} 33'01	3°19'01
morning set	2107 Nov 05 19:58	3° \mathbb{M} 54'01		morning rise	2108 Sep 22 03:44	17° \mathbb{M} 27'47	
desc. node	2107 Nov 17 13:38	23° \mathbb{M} 00'40		direct	2108 Sep 24 16:03	16° \mathbb{M} 56'57	
				asc. node	2108 Sep 26 05:11	17° \mathbb{M} 08'51	
superior conj	2107 Nov 20 05:14	27° \mathbb{M} 14'03	-0°17'46	morning max el	2108 Oct 01 05:44	20° \mathbb{M} 22'33	17°52'41
minimum elong	2107 Nov 20 02:58	27° \mathbb{M} 05'06	0°17'28		2108 Oct 08 10:38	0° Ω	
	2107 Nov 21 23:08	0° \mathbb{M}		morning set	2108 Oct 17 21:22	15° Ω 59'51	
max. Earth dist.	2107 Nov 23 11:51	2° \mathbb{M} 24'53	1.44988 AU		2108 Oct 26 01:36	0° \mathbb{M}	
evening rise	2107 Dec 06 15:04	22° \mathbb{M} 54'25					
	2107 Dec 11 05:02	0° \mathbb{Z}		superior conj	2108 Oct 30 05:37	6° \mathbb{M} 56'03	0°28'20
greatest brilliancy	2107 Dec 19 12:22	12° \mathbb{Z} 42'01	-0.7m	minimum elong	2108 Oct 30 08:32	7° \mathbb{M} 08'06	0°27'56
evening max el	2107 Dec 31 13:53	28° \mathbb{Z} 51'20	19°40'52	desc. node	2108 Nov 03 10:38	13° \mathbb{M} 47'26	
	2108 Jan 01 18:03	0° \approx		max. Earth dist.	2108 Nov 05 05:35	16° \mathbb{M} 39'45	1.44148 AU
asc. node	2108 Jan 06 07:21	2° \approx 53'06			2108 Nov 13 17:18	0° \mathbb{M}	
retrograde	2108 Jan 07 23:00	3° \approx 08'07		evening rise	2108 Nov 15 00:14	1° \mathbb{M} 59'21	
evening set	2108 Jan 11 12:14	1° \approx 54'19			2108 Dec 03 19:53	0° \mathbb{Z}	
	2108 Jan 13 16:07	30° \mathbb{R} \mathbb{Z}		evening max el	2108 Dec 13 15:34	12° \mathbb{Z} 22'00	20°43'09
inferior conj	2108 Jan 16 23:48	25° \mathbb{Z} 56'31	3°03'21	retrograde	2108 Dec 21 20:52	17° \mathbb{Z} 13'28	
minimum elong	2108 Jan 16 21:16	26° \mathbb{Z} 04'51	3°02'45	asc. node	2108 Dec 23 04:25	17° \mathbb{Z} 03'49	
min. Earth dist.	2108 Jan 18 01:50	24° \mathbb{Z} 30'42	0.66652 AU	evening set	2108 Dec 25 19:16	15° \mathbb{Z} 44'47	
morning rise	2108 Jan 22 06:04	19° \mathbb{Z} 43'36		inferior conj	2108 Dec 31 04:24	9° \mathbb{Z} 35'02	2°28'31
direct	2108 Jan 28 08:18	17° \mathbb{Z} 00'46		minimum elong	2108 Dec 31 01:49	9° \mathbb{Z} 43'52	2°27'42
morning max el	2108 Feb 09 12:52	24° \mathbb{Z} 16'14	25°36'18	min. Earth dist.	2108 Dec 31 17:29	8° \mathbb{Z} 50'20	0.67409 AU
desc. node	2108 Feb 13 12:50	28° \mathbb{Z} 37'54		morning rise	2109 Jan 05 08:13	3° \mathbb{Z} 21'57	
	2108 Feb 14 16:37	0° \approx		direct	2109 Jan 10 19:59	0° \mathbb{Z} 56'35	
	2108 Mar 06 14:32	0° \mathbb{H}		morning max el	2109 Jan 21 21:13	7° \mathbb{Z} 31'58	24°11'33
morning set	2108 Mar 16 19:00	17° \mathbb{H} 34'39		desc. node	2109 Jan 30 09:53	17° \mathbb{Z} 30'57	
max. Earth dist.	2108 Mar 20 13:11	24° \mathbb{H} 34'14	1.36036 AU		2109 Feb 08 10:26	0° \approx	
	2108 Mar 23 08:52	0° \mathbb{Y}		morning set	2109 Feb 26 16:20	29° \approx 04'44	
					2109 Feb 27 05:04	0° \mathbb{H}	
superior conj	2108 Mar 26 06:35	5° \mathbb{Y} 44'40	-1°15'55	max. Earth dist.	2109 Mar 02 09:43	5° \mathbb{H} 39'02	1.38038 AU
minimum elong	2108 Mar 26 10:19	6° \mathbb{Y} 03'23	1°15'20				
evening rise	2108 Apr 03 07:53	22° \mathbb{Y} 08'07		superior conj	2109 Mar 09 11:26	18° \mathbb{H} 46'25	-1°40'03
asc. node	2108 Apr 03 06:40	22° \mathbb{Y} 01'55		minimum elong	2109 Mar 09 15:45	19° \mathbb{H} 07'06	1°39'34
	2108 Apr 07 06:38	0° \mathbb{B}			2109 Mar 15 05:40	0° \mathbb{Y}	
evening max el	2108 Apr 21 01:12	20° \mathbb{B} 53'44	19°58'18	evening rise	2109 Mar 18 07:06	6° \mathbb{Y} 02'44	
retrograde	2108 May 01 06:19	25° \mathbb{B} 49'55		asc. node	2109 Mar 21 03:42	11° \mathbb{Y} 37'37	
evening set	2108 May 03 06:46	25° \mathbb{B} 39'12			2109 Apr 01 06:45	0° \mathbb{B}	
desc. node	2108 May 11 11:59	22° \mathbb{B} 04'44		evening max el	2109 Apr 03 21:04	2° \mathbb{B} 51'52	19°01'33
inferior conj	2108 May 12 04:52	21° \mathbb{B} 39'16	-0°12'18	retrograde	2109 Apr 12 11:29	7° \mathbb{B} 02'19	
minimum elong	2108 May 12 04:18	21° \mathbb{B} 40'07	0°12'05	evening set	2109 Apr 14 15:29	6° \mathbb{B} 47'31	
transit middle	2108 May 12 04:18	21° \mathbb{B} 40'07	0°12'05	inferior conj	2109 Apr 22 18:41	2° \mathbb{B} 33'06	1°33'15
transit begin	2108 May 12 01:42	21° \mathbb{B} 44'04		minimum elong	2109 Apr 22 22:02	2° \mathbb{B} 27'15	1°32'10
transit end	2108 May 12 06:54	21° \mathbb{B} 36'11		min. Earth dist.	2109 Apr 25 20:46	0° \mathbb{B} 24'50	0.56751 AU
min. Earth dist.	2108 May 14 05:18	20° \mathbb{B} 26'06	0.55395 AU		2109 Apr 26 11:52	30° \mathbb{R} \mathbb{Y}	
morning rise	2108 May 20 23:47	17° \mathbb{B} 13'55		desc. node	2109 Apr 28 09:02	28° \mathbb{Y} 51'19	
direct	2108 May 25 02:22	16° \mathbb{B} 36'52		morning rise	2109 May 01 01:31	27° \mathbb{Y} 33'20	
morning max el	2108 Jun 07 20:58	23° \mathbb{B} 26'05	24°06'43	direct	2109 May 06 04:50	26° \mathbb{Y} 31'04	
	2108 Jun 13 18:35	0° \mathbb{I}			2109 May 15 19:30	0° \mathbb{B}	
asc. node	2108 Jun 30 05:58	27° \mathbb{I} 40'13		morning max el	2109 May 20 11:31	3° \mathbb{B} 53'11	25°43'21
	2108 Jul 01 09:06	0° \mathbb{E}			2109 Jun 08 04:27	0° \mathbb{I}	
morning set	2108 Jul 02 12:43	2° \mathbb{E} 24'38		morning set	2109 Jun 17 00:16	17° \mathbb{I} 19'24	
				asc. node	2109 Jun 17 02:59	17° \mathbb{I} 33'45	
superior conj	2108 Jul 09 12:54	17° \mathbb{E} 31'22	1°24'06		2109 Jun 22 20:48	0° \mathbb{E}	
minimum elong	2108 Jul 09 10:33	17° \mathbb{E} 18'36	1°23'49				
max. Earth dist.	2108 Jul 11 11:32	21° \mathbb{E} 42'32	1.33185 AU	superior conj	2109 Jun 23 23:38	2° \mathbb{E} 27'12	1°06'47
	2108 Jul 15 10:07	0° \mathbb{Q}		minimum elong	2109 Jun 23 21:18	2° \mathbb{E} 14'25	1°06'23
evening rise	2108 Jul 16 22:01	3° \mathbb{Q} 03'06		max. Earth dist.	2109 Jun 24 20:20	4° \mathbb{E} 20'37	1.32492 AU
	2108 Jul 31 20:29	0° \mathbb{M}		evening rise	2109 Jul 01 00:42	17° \mathbb{E} 34'46	
desc. node	2108 Aug 07 11:18	9° \mathbb{M} 50'48			2109 Jul 07 07:19	0° \mathbb{Q}	
evening max el	2108 Aug 19 08:58	23° \mathbb{M} 56'55	27°25'54	desc. node	2109 Jul 25 08:19	28° \mathbb{Q} 25'37	
	2108 Aug 27 18:26	0° Ω			2109 Jul 26 14:51	0° \mathbb{M}	



























































































































evening max el	2109 Aug 01 16:24	6° \mathbb{M} 34'47	27°13'27	retrograde	2110 Jul 28 16:59	25° \mathcal{Q} 40'24	
retrograde	2109 Aug 15 12:35	13° \mathbb{M} 49'28		evening set	2110 Aug 04 08:10	23° \mathcal{Q} 50'09	
evening set	2109 Aug 22 16:01	11° \mathbb{M} 28'39		min. Earth dist.	2110 Aug 08 06:43	21° \mathcal{Q} 14'15	0.59731 AU
min. Earth dist.	2109 Aug 26 06:34	8° \mathbb{M} 42'15	0.61774 AU	inferior conj	2110 Aug 11 14:07	18° \mathcal{Q} 38'16	-4°47'15
inferior conj	2109 Aug 29 08:03	5° \mathbb{M} 56'48	-4°10'48	minimum elong	2110 Aug 11 17:41	18° \mathcal{Q} 31'13	4°46'50
minimum elong	2109 Aug 29 13:21	5° \mathbb{M} 44'49	4°09'36	morning rise	2110 Aug 19 05:18	14° \mathcal{Q} 02'43	
morning rise	2109 Sep 05 12:15	0° \mathbb{M} 58'41		direct	2110 Aug 21 15:52	13° \mathcal{Q} 41'20	
direct	2109 Sep 07 22:24	0° \mathbb{M} 33'41		morning max el	2110 Aug 29 07:12	17° \mathcal{Q} 23'24	18°17'35
asc. node	2109 Sep 13 02:14	2° \mathbb{M} 30'55		asc. node	2110 Aug 30 23:15	19° \mathcal{Q} 08'54	
morning max el	2109 Sep 14 20:41	4° \mathbb{M} 02'46	17°55'24		2110 Sep 07 07:50	0° \mathbb{M}	
morning set	2109 Sep 30 18:33	29° \mathbb{M} 01'57		morning set	2110 Sep 14 05:54	12° \mathbb{M} 44'40	
	2109 Oct 01 07:18	0° \mathcal{Q}			2110 Sep 23 10:28	0° \mathcal{Q}	
superior conj	2109 Oct 11 09:05	17° \mathcal{Q} 57'53	1°04'34	superior conj	2110 Sep 23 13:09	0° \mathcal{Q} 12'13	1°28'47
minimum elong	2109 Oct 11 13:38	18° \mathcal{Q} 17'34	1°04'02	minimum elong	2110 Sep 23 16:46	0° \mathcal{Q} 28'44	1°28'27
	2109 Oct 18 12:19	0° \mathbb{M}		max. Earth dist.	2110 Oct 01 02:54	13° \mathcal{Q} 34'59	1.40820 AU
max. Earth dist.	2109 Oct 18 19:12	0° \mathbb{M} 28'19	1.42696 AU	evening rise	2110 Oct 05 20:06	21° \mathcal{Q} 28'34	
desc. node	2109 Oct 21 07:39	4° \mathbb{M} 34'23		desc. node	2110 Oct 08 04:40	25° \mathcal{Q} 18'12	
evening rise	2109 Oct 25 13:02	11° \mathbb{M} 18'19			2110 Oct 11 03:36	0° \mathbb{M}	
	2109 Nov 06 20:08	0° \mathcal{Q}			2110 Oct 31 23:45	0° \mathcal{Q}	
evening max el	2109 Nov 26 11:33	25° \mathcal{Q} 53'04	21°56'15	evening max el	2110 Nov 09 02:46	9° \mathcal{Q} 26'07	23°15'30
	2109 Dec 01 10:19	0° \mathcal{Q}		retrograde	2110 Nov 19 11:43	15° \mathcal{Q} 34'56	
retrograde	2109 Dec 05 17:36	1° \mathcal{Q} 23'25		evening set	2110 Nov 24 09:43	13° \mathcal{Q} 33'14	
	2109 Dec 09 15:45	30° \mathcal{R} \mathcal{Q}		asc. node	2110 Nov 26 22:29	10° \mathcal{Q} 55'43	
evening set	2109 Dec 10 02:58	29° \mathcal{Q} 38'35		inferior conj	2110 Nov 29 18:48	7° \mathcal{Q} 10'03	0°57'51
asc. node	2109 Dec 10 01:28	29° \mathcal{Q} 41'36		minimum elong	2110 Nov 29 17:30	7° \mathcal{Q} 14'34	0°57'19
inferior conj	2109 Dec 15 11:21	23° \mathcal{Q} 20'11	1°46'11	min. Earth dist.	2110 Nov 29 09:34	7° \mathcal{Q} 41'50	0.67814 AU
minimum elong	2109 Dec 15 09:12	23° \mathcal{Q} 27'38	1°45'24	morning rise	2110 Dec 05 01:12	1° \mathcal{Q} 01'47	
min. Earth dist.	2109 Dec 15 12:49	23° \mathcal{Q} 15'04	0.67787 AU		2110 Dec 06 15:28	30° \mathcal{R} \mathbb{M}	
morning rise	2109 Dec 20 15:18	17° \mathcal{Q} 08'32		direct	2110 Dec 09 07:22	29° \mathbb{M} 21'13	
direct	2109 Dec 25 11:56	15° \mathcal{Q} 05'10			2110 Dec 12 03:15	0° \mathcal{Q}	
morning max el	2110 Jan 04 07:19	20° \mathcal{Q} 53'21	22°43'02	morning max el	2110 Dec 17 22:32	4° \mathcal{Q} 23'15	21°19'20
	2110 Jan 12 01:56	0° \mathcal{Q}		desc. node	2111 Jan 04 03:56	26° \mathcal{Q} 58'16	
desc. node	2110 Jan 17 06:54	7° \mathcal{Q} 01'09			2111 Jan 06 05:10	0° \mathcal{Q}	
	2110 Feb 01 17:00	0° \approx		morning set	2111 Jan 18 00:33	18° \mathcal{Q} 04'39	
morning set	2110 Feb 07 10:49	9° \approx 15'02			2111 Jan 25 10:21	0° \approx	
max. Earth dist.	2110 Feb 12 05:35	17° \approx 16'07	1.40188 AU	max. Earth dist.	2111 Jan 25 06:43	29° \mathcal{Q} 45'03	1.42211 AU
	2110 Feb 19 11:16	0° \mathcal{H}					
superior conj	2110 Feb 20 00:08	0° \mathcal{H} 58'19	-1°57'55	superior conj	2111 Feb 01 15:28	12° \approx 07'56	-2°05'09
minimum elong	2110 Feb 20 03:31	1° \mathcal{H} 13'43	1°57'43	minimum elong	2111 Feb 01 15:29	12° \approx 08'01	2°05'09
evening rise	2110 Mar 01 20:47	19° \mathcal{H} 25'01			2111 Feb 11 17:24	0° \mathcal{H}	
	2110 Mar 07 13:04	0° \mathcal{Y}		evening rise	2111 Feb 12 21:12	2° \mathcal{H} 05'59	
asc. node	2110 Mar 08 00:44	0° \mathcal{Y} 52'16		asc. node	2111 Feb 22 21:46	19° \mathcal{H} 38'18	
evening max el	2110 Mar 18 01:39	15° \mathcal{Y} 24'06	18°25'05	evening max el	2111 Mar 01 11:43	28° \mathcal{H} 21'06	18°08'31
retrograde	2110 Mar 25 11:46	19° \mathcal{Y} 04'05			2111 Mar 03 09:46	0° \mathcal{Y}	
evening set	2110 Mar 27 21:38	18° \mathcal{Y} 41'58		retrograde	2111 Mar 08 05:03	1° \mathcal{Y} 46'28	
inferior conj	2110 Apr 04 05:47	14° \mathcal{Y} 07'50	2°46'47	evening set	2111 Mar 10 20:35	1° \mathcal{Y} 14'57	
minimum elong	2110 Apr 04 09:37	13° \mathcal{Y} 59'59	2°45'53		2111 Mar 13 04:25	30° \mathcal{R} \mathcal{H}	
min. Earth dist.	2110 Apr 07 16:21	11° \mathcal{Y} 20'34	0.58670 AU	inferior conj	2111 Mar 17 12:52	26° \mathcal{H} 20'10	3°27'48
morning rise	2110 Apr 11 18:47	8° \mathcal{Y} 37'42		minimum elong	2111 Mar 17 15:09	26° \mathcal{H} 14'46	3°27'31
desc. node	2110 Apr 15 06:03	7° \mathcal{Y} 18'26		min. Earth dist.	2111 Mar 20 18:27	23° \mathcal{H} 17'59	0.60815 AU
direct	2110 Apr 17 21:10	7° \mathcal{Y} 00'13		morning rise	2111 Mar 24 07:48	20° \mathcal{H} 29'51	
morning max el	2110 May 02 06:20	14° \mathcal{Y} 42'50	26°58'58	direct	2111 Mar 31 01:22	18° \mathcal{H} 16'34	
	2110 May 14 13:13	0° \mathcal{B}		desc. node	2111 Apr 02 03:06	18° \mathcal{H} 28'32	
	2110 May 31 09:25	0° \mathbb{I}		morning max el	2111 Apr 14 07:17	26° \mathcal{H} 10'02	27°41'53
morning set	2110 Jun 01 10:02	2° \mathbb{I} 08'03			2111 Apr 17 21:20	0° \mathcal{Y}	
asc. node	2110 Jun 04 00:00	7° \mathbb{I} 37'28			2111 May 08 00:54	0° \mathcal{B}	
superior conj	2110 Jun 08 11:26	17° \mathbb{I} 24'28	0°45'44	morning set	2111 May 16 16:09	16° \mathcal{B} 43'11	
minimum elong	2110 Jun 08 09:35	17° \mathbb{I} 14'17	0°45'22	asc. node	2111 May 21 21:02	27° \mathcal{B} 45'58	
max. Earth dist.	2110 Jun 08 08:23	17° \mathbb{I} 07'46	1.32186 AU		2111 May 22 21:38	0° \mathbb{I}	
	2110 Jun 14 06:03	0° \mathcal{B}		max. Earth dist.	2111 May 22 19:47	29° \mathcal{B} 49'50	1.32266 AU
evening rise	2110 Jun 15 08:33	2° \mathcal{B} 20'34		superior conj	2111 May 23 22:32	2° \mathbb{I} 16'10	0°21'39
	2110 Jun 30 06:38	0° \mathcal{Q}		minimum elong	2111 May 23 21:33	2° \mathbb{I} 10'51	0°21'26
desc. node	2110 Jul 12 05:20	15° \mathcal{Q} 55'42		evening rise	2111 May 30 19:20	17° \mathbb{I} 12'05	
evening max el	2110 Jul 14 17:30	18° \mathcal{Q} 28'12	26°27'47		2111 Jun 06 03:12	0° \mathcal{B}	
				evening max el	2111 Jun 26 11:31	29° \mathcal{B} 35'16	25°13'06

	2111 Jun 26 21:59	0°♎		asc. node	2112 May 07 18:04	17°♎55'10	
desc. node	2111 Jun 29 02:21	1°♎53'54			2112 May 13 08:04	0°♎	
retrograde	2111 Jul 10 11:36	6°♎42'22		evening rise	2112 May 14 07:11	2°♎03'00	
evening set	2111 Jul 16 00:59	5°♎30'59			2112 May 29 15:50	0°♎	
min. Earth dist.	2111 Jul 20 23:20	2°♎46'58	0.57713 AU	evening max el	2112 Jun 07 01:27	10°♎10'27	23°40'26
inferior conj	2111 Jul 24 01:23	0°♎40'38	-4°58'35	desc. node	2112 Jun 14 23:22	15°♎46'15	
minimum elong	2111 Jul 24 00:39	0°♎41'54	4°58'34	retrograde	2112 Jun 20 17:50	17°♎01'46	
	2111 Jul 25 01:16	30°♎		evening set	2112 Jun 24 20:01	16°♎25'00	
morning rise	2111 Aug 01 02:54	26°♎27'18		min. Earth dist.	2112 Jul 01 11:52	13°♎17'38	0.56047 AU
direct	2111 Aug 03 16:13	26°♎07'49		inferior conj	2112 Jul 03 16:33	11°♎58'23	-4°30'29
	2111 Aug 12 03:51	0°♎		minimum elong	2112 Jul 03 10:29	12°♎07'33	4°29'30
morning max el	2111 Aug 12 10:06	0°♎14'29	19°00'31	morning rise	2112 Jul 12 03:33	8°♎01'50	
asc. node	2111 Aug 17 20:16	6°♎47'13		direct	2112 Jul 14 21:32	7°♎42'49	
morning set	2111 Aug 29 03:14	26°♎56'23		morning max el	2112 Jul 25 02:37	12°♎26'49	20°04'51
	2111 Aug 30 16:23	0°♎		asc. node	2112 Aug 03 17:18	25°♎12'26	
					2112 Aug 06 10:22	0°♎	
superior conj	2111 Sep 06 12:14	13°♎22'52	1°41'53	morning set	2112 Aug 12 07:25	11°♎28'48	
minimum elong	2111 Sep 06 14:01	13°♎31'25	1°41'47				
max. Earth dist.	2111 Sep 13 06:37	25°♎58'08	1.38768 AU	superior conj	2112 Aug 20 01:10	27°♎15'09	1°45'40
	2111 Sep 15 13:05	0°♎		minimum elong	2112 Aug 20 01:10	27°♎15'07	1°45'40
evening rise	2111 Sep 17 03:11	2°♎45'48			2112 Aug 21 10:13	0°♎	
desc. node	2111 Sep 25 01:41	15°♎54'59		max. Earth dist.	2112 Aug 25 11:49	7°♎54'29	1.36796 AU
	2111 Oct 04 08:18	0°♎		evening rise	2112 Aug 29 08:39	15°♎06'21	
evening max el	2111 Oct 22 15:25	23°♎03'29	24°34'45		2112 Sep 06 23:40	0°♎	
retrograde	2111 Nov 03 02:04	29°♎44'20		desc. node	2112 Sep 10 22:42	6°♎19'48	
evening set	2111 Nov 08 13:56	27°♎26'16			2112 Sep 27 23:36	0°♎	
min. Earth dist.	2111 Nov 13 05:17	22°♎08'28	0.67508 AU	evening max el	2112 Oct 04 03:30	6°♎43'39	25°46'42
asc. node	2111 Nov 13 19:30	21°♎21'03		retrograde	2112 Oct 16 11:39	13°♎46'23	
inferior conj	2111 Nov 14 01:02	21°♎02'35	0°04'46	evening set	2112 Oct 22 13:48	11°♎14'04	
minimum elong	2111 Nov 14 00:55	21°♎02'58	0°04'43	min. Earth dist.	2112 Oct 26 21:32	6°♎31'40	0.66873 AU
transit middle	2111 Nov 14 00:55	21°♎02'58	0°04'43	inferior conj	2112 Oct 28 04:14	4°♎54'21	-0°51'49
transit begin	2111 Nov 13 22:18	21°♎11'45		minimum elong	2112 Oct 28 05:35	4°♎50'05	0°51'14
transit end	2111 Nov 14 03:33	20°♎54'12		asc. node	2112 Oct 30 16:33	1°♎51'37	
morning rise	2111 Nov 19 11:59	15°♎00'04			2112 Nov 01 13:30	30°♎	
direct	2111 Nov 23 05:10	13°♎40'44		morning rise	2112 Nov 02 21:39	29°♎00'20	
morning max el	2111 Nov 30 21:13	18°♎03'56	20°06'30	direct	2112 Nov 06 03:47	27°♎59'16	
	2111 Dec 10 09:12	0°♎			2112 Nov 11 00:36	0°♎	
desc. node	2111 Dec 22 00:58	17°♎15'00		morning max el	2112 Nov 13 03:29	1°♎53'54	19°07'55
morning set	2111 Dec 27 21:10	26°♎12'26			2112 Dec 02 22:37	0°♎	
	2111 Dec 30 07:52	0°♎		morning set	2112 Dec 06 01:20	4°♎50'56	
max. Earth dist.	2112 Jan 07 15:38	13°♎07'15	1.43835 AU	desc. node	2112 Dec 07 22:00	7°♎45'08	
				max. Earth dist.	2112 Dec 20 07:13	27°♎08'51	1.44855 AU
					2112 Dec 22 02:35	0°♎	
superior conj	2112 Jan 13 05:09	22°♎07'15	-1°56'44				
minimum elong	2112 Jan 12 23:45	21°♎45'08	1°56'26	superior conj	2112 Dec 22 18:08	1°♎01'32	-1°29'17
	2112 Jan 17 23:21	0°♎		minimum elong	2112 Dec 22 09:16	0°♎26'28	1°28'24
evening rise	2112 Jan 26 04:05	13°♎57'42		evening rise	2113 Jan 06 13:19	24°♎52'59	
	2112 Feb 04 14:12	0°♎			2113 Jan 09 16:01	0°♎	
asc. node	2112 Feb 09 18:48	7°♎47'11		evening max el	2113 Jan 26 12:20	24°♎58'23	18°32'31
evening max el	2112 Feb 13 00:14	11°♎35'06	18°11'14	asc. node	2113 Jan 26 15:52	25°♎07'16	
retrograde	2112 Feb 19 11:11	15°♎00'04		retrograde	2113 Feb 02 01:56	28°♎35'30	
evening set	2112 Feb 22 08:01	14°♎17'56		evening set	2113 Feb 05 04:18	27°♎41'50	
inferior conj	2112 Feb 28 12:16	9°♎03'02	3°42'40	inferior conj	2113 Feb 10 23:54	22°♎08'17	3°38'09
minimum elong	2112 Feb 28 12:34	9°♎02'14	3°42'40	minimum elong	2113 Feb 10 22:37	22°♎12'05	3°38'02
min. Earth dist.	2112 Mar 02 05:06	6°♎10'10	0.62881 AU	min. Earth dist.	2113 Feb 13 01:12	19°♎42'36	0.64654 AU
morning rise	2112 Mar 05 16:04	3°♎01'07		morning rise	2113 Feb 16 16:27	15°♎59'53	
direct	2112 Mar 12 14:52	0°♎21'49		direct	2113 Feb 23 11:39	13°♎08'55	
desc. node	2112 Mar 19 00:09	2°♎16'13		desc. node	2113 Mar 05 21:12	18°♎07'23	
morning max el	2112 Mar 26 13:32	8°♎17'45	27°47'32	morning max el	2113 Mar 08 22:48	20°♎58'37	27°17'57
	2112 Apr 12 07:04	0°♎			2113 Mar 16 18:37	0°♎	
	2112 Apr 29 04:57	0°♎			2113 Apr 05 09:43	0°♎	
morning set	2112 Apr 29 16:27	0°♎57'44		morning set	2113 Apr 13 08:10	14°♎42'53	
max. Earth dist.	2112 May 05 02:43	12°♎14'28	1.32753 AU	max. Earth dist.	2113 Apr 18 01:26	24°♎10'32	1.33670 AU
					2113 Apr 20 20:34	0°♎	
superior conj	2112 May 07 07:15	16°♎56'36	-0°04'46				
minimum elong	2112 May 07 07:29	16°♎57'51	0°04'44	superior conj	2113 Apr 21 11:38	1°♎19'25	-0°32'33
behind sun begin	2112 May 07 02:28	16°♎30'45		minimum elong	2113 Apr 21 13:17	1°♎28'05	0°32'13
behind sun end	2112 May 07 12:30	17°♎24'58					

asc. node	2113 Apr 24 15:09	8°♄00'56		asc. node	2114 Apr 11 12:13	27°♄58'51	
evening rise	2113 Apr 28 18:15	16°♄46'56			2114 Apr 12 11:34	0°♄	
	2113 May 05 09:05	0°♄		evening rise	2114 Apr 13 02:33	1°♄17'21	
evening max el	2113 May 19 17:56	20°♄42'09	22°04'59		2114 Apr 30 05:32	0°♄	
retrograde	2113 Jun 01 11:58	26°♄59'38		evening max el	2114 May 01 19:37	1°♄38'40	20°39'39
desc. node	2113 Jun 01 20:23	26°♄59'21		retrograde	2114 May 13 01:06	7°♄06'19	
evening set	2113 Jun 04 06:28	26°♄42'35		evening set	2114 May 15 03:21	6°♄55'40	
min. Earth dist.	2113 Jun 12 23:20	22°♄59'22	0.55060 AU	desc. node	2114 May 19 17:26	5°♄26'55	
inferior conj	2113 Jun 13 15:26	22°♄36'46	-3°14'17	inferior conj	2114 May 24 09:19	2°♄57'55	-1°21'28
minimum elong	2113 Jun 13 07:37	22°♄47'45	3°11'59	minimum elong	2114 May 24 05:27	3°♄03'27	1°20'04
morning rise	2113 Jun 22 10:23	18°♄44'15		min. Earth dist.	2114 May 25 11:48	2°♄19'54	0.54989 AU
direct	2113 Jun 25 11:31	18°♄23'33			2114 May 29 23:02	30°♄	
morning max el	2113 Jul 07 07:40	23°♄55'36	21°29'11	morning rise	2114 Jun 02 06:54	28°♄49'31	
	2113 Jul 12 17:21	0°♄		direct	2114 Jun 05 21:15	28°♄21'39	
asc. node	2113 Jul 21 14:23	14°♄13'32			2114 Jun 12 12:33	0°♄	
morning set	2113 Jul 27 16:05	26°♄15'46		morning max el	2114 Jun 19 03:08	4°♄44'58	23°07'50
	2113 Jul 29 11:03	0°♄			2114 Jul 06 14:11	0°♄	
				asc. node	2114 Jul 08 11:27	3°♄40'35	
superior conj	2113 Aug 03 23:55	11°♄37'39	1°41'56	morning set	2114 Jul 12 03:12	11°♄10'07	
minimum elong	2113 Aug 03 22:34	11°♄30'38	1°41'52				
max. Earth dist.	2113 Aug 07 23:46	19°♄48'18	1.35093 AU	superior conj	2114 Jul 19 05:11	26°♄19'29	1°32'06
evening rise	2113 Aug 12 08:09	28°♄19'30		minimum elong	2114 Jul 19 03:03	26°♄08'01	1°31'54
	2113 Aug 13 05:22	0°♄			2114 Jul 20 22:38	0°♄	
desc. node	2113 Aug 28 19:44	26°♄27'03		max. Earth dist.	2114 Jul 21 20:40	1°♄56'04	1.33762 AU
	2113 Aug 31 05:04	0°♄		evening rise	2114 Jul 26 21:05	12°♄11'39	
evening max el	2113 Sep 16 15:49	20°♄21'07	26°43'37		2114 Aug 05 11:51	0°♄	
retrograde	2113 Sep 29 16:01	27°♄35'43		desc. node	2114 Aug 15 16:45	16°♄07'58	
evening set	2113 Oct 06 07:21	24°♄53'56			2114 Aug 26 12:21	0°♄	
min. Earth dist.	2113 Oct 10 07:55	20°♄48'07	0.65894 AU	evening max el	2114 Aug 30 03:40	3°♄45'04	27°18'21
inferior conj	2113 Oct 12 02:27	18°♄42'29	-1°50'15	retrograde	2114 Sep 12 14:47	11°♄03'39	
minimum elong	2113 Oct 12 05:24	18°♄33'45	1°49'04	evening set	2114 Sep 19 15:58	8°♄20'30	
asc. node	2113 Oct 17 13:36	13°♄21'08		min. Earth dist.	2114 Sep 23 10:11	4°♄50'24	0.64555 AU
morning rise	2113 Oct 18 04:04	13°♄00'02		inferior conj	2114 Sep 25 17:20	2°♄21'28	-2°48'27
direct	2113 Oct 21 01:21	12°♄13'39		minimum elong	2114 Sep 25 21:47	2°♄09'27	2°46'54
morning max el	2113 Oct 27 15:47	15°♄49'54	18°25'18		2114 Sep 27 23:43	30°♄	
	2113 Nov 07 01:09	0°♄		morning rise	2114 Oct 02 04:36	26°♄53'44	
morning set	2113 Nov 16 07:36	14°♄50'41		asc. node	2114 Oct 04 10:39	26°♄19'00	
desc. node	2113 Nov 24 19:03	28°♄24'48		direct	2114 Oct 04 19:23	26°♄18'19	
	2113 Nov 25 19:03	0°♄		morning max el	2114 Oct 11 07:27	29°♄45'27	17°59'31
					2114 Oct 11 13:12	0°♄	
superior conj	2113 Dec 01 19:29	9°♄29'49	-0°45'53	morning set	2114 Oct 28 18:34	26°♄14'29	
minimum elong	2113 Dec 01 13:36	9°♄06'42	0°45'08		2114 Oct 31 00:10	0°♄	
max. Earth dist.	2113 Dec 03 02:12	11°♄30'32	1.45155 AU				
	2113 Dec 14 21:00	0°♄		superior conj	2114 Nov 11 06:39	18°♄32'04	0°02'40
evening rise	2113 Dec 17 23:14	4°♄52'03		minimum elong	2114 Nov 11 06:58	18°♄33'21	0°02'38
greatest brilliancy	2113 Dec 28 02:54	20°♄48'30	-0.8m	behind sun begin	2114 Nov 10 20:39	17°♄51'51	
	2114 Jan 03 05:40	0°♄		behind sun end	2114 Nov 11 17:17	19°♄14'46	
evening max el	2114 Jan 09 21:39	8°♄26'17	19°11'15	desc. node	2114 Nov 11 16:04	19°♄09'55	
asc. node	2114 Jan 13 12:55	11°♄25'17		max. Earth dist.	2114 Nov 15 20:55	25°♄51'45	1.44711 AU
retrograde	2114 Jan 16 21:41	12°♄26'15			2114 Nov 18 11:55	0°♄	
evening set	2114 Jan 20 06:31	11°♄20'05		evening rise	2114 Nov 27 13:53	14°♄07'11	
inferior conj	2114 Jan 25 20:20	5°♄30'08	3°19'18		2114 Dec 07 23:33	0°♄	
minimum elong	2114 Jan 25 18:04	5°♄37'20	3°18'53	greatest brilliancy	2114 Dec 11 20:55	5°♄48'05	-0.6m
min. Earth dist.	2114 Jan 27 06:24	3°♄41'22	0.66037 AU	evening max el	2114 Dec 24 02:19	21°♄55'51	20°05'47
	2114 Jan 30 11:34	30°♄		asc. node	2114 Dec 31 09:57	26°♄26'17	
morning rise	2114 Jan 31 05:22	29°♄18'10		retrograde	2114 Dec 31 19:30	26°♄27'10	
direct	2114 Feb 06 14:47	26°♄29'21		evening set	2115 Jan 04 12:21	25°♄07'15	
	2114 Feb 14 20:37	0°♄		inferior conj	2115 Jan 09 22:38	19°♄03'46	2°49'37
morning max el	2114 Feb 19 08:38	4°♄01'29	26°19'33	minimum elong	2115 Jan 09 20:01	19°♄12'34	2°48'54
desc. node	2114 Feb 20 18:15	5°♄28'41		min. Earth dist.	2115 Jan 10 18:57	17°♄55'31	0.67012 AU
	2114 Mar 11 03:55	0°♄		morning rise	2115 Jan 15 03:29	12°♄50'22	
morning set	2114 Mar 27 11:36	27°♄47'38		direct	2115 Jan 20 23:36	10°♄14'16	
	2114 Mar 28 15:41	0°♄		morning max el	2115 Feb 01 17:29	17°♄14'52	25°01'26
max. Earth dist.	2114 Mar 31 13:03	5°♄34'29	1.35045 AU	desc. node	2115 Feb 07 15:18	23°♄53'59	
					2115 Feb 12 09:13	0°♄	
superior conj	2114 Apr 05 09:21	15°♄17'33	-1°00'28		2115 Mar 04 03:48	0°♄	
minimum elong	2114 Apr 05 12:24	15°♄33'12	0°59'55	morning set	2115 Mar 09 21:45	9°♄57'46	

max. Earth dist.	2115 Mar 13 13:33	16° X 37'08	1.36844 AU		2116 Feb 24 13:51	0° X	
superior conj	2115 Mar 19 21:26	28° X 42'56	-1°26'42	superior conj	2116 Mar 01 19:57	11° X 24'46	-1°48'38
minimum elong	2115 Mar 20 01:32	29° X 03'10	1°26'07	minimum elong	2116 Mar 02 00:07	11° X 44'18	1°48'16
	2115 Mar 20 13:04	0° Y		evening rise	2116 Mar 11 01:22	29° X 08'51	
evening rise	2115 Mar 28 05:52	15° Y 27'25			2116 Mar 11 11:55	0° Y	
asc. node	2115 Mar 29 09:16	17° Y 44'30		asc. node	2116 Mar 15 06:18	7° Y 11'59	
	2115 Apr 04 20:35	0° Z		evening max el	2116 Mar 27 09:14	25° Y 28'58	18°43'42
evening max el	2115 Apr 14 09:14	13° Z 14'58	19°31'46	retrograde	2116 Apr 04 10:09	29° Y 24'06	
retrograde	2115 Apr 23 21:18	17° Z 50'28		evening set	2116 Apr 06 16:37	29° Y 06'32	
evening set	2115 Apr 25 22:20	17° Z 38'40		inferior conj	2116 Apr 14 11:30	24° Y 44'28	2°08'35
inferior conj	2115 May 04 12:50	13° Z 33'50	0°35'40	minimum elong	2116 Apr 14 15:26	24° Y 37'08	2°07'27
minimum elong	2115 May 04 14:21	13° Z 31'25	0°35'07	min. Earth dist.	2116 Apr 17 19:23	22° Y 16'49	0.57517 AU
desc. node	2115 May 06 14:28	12° Z 14'20		morning rise	2116 Apr 22 11:07	19° Y 30'46	
min. Earth dist.	2115 May 07 02:16	11° Z 55'49	0.55874 AU	desc. node	2116 Apr 22 11:30	19° Y 30'20	
morning rise	2115 May 13 03:37	8° Z 53'39		direct	2116 Apr 28 01:07	18° Y 13'55	
direct	2115 May 17 16:09	8° Z 07'30		morning max el	2116 May 12 09:32	25° Y 46'32	26°18'46
morning max el	2115 May 31 17:50	15° Z 13'16	24°49'22		2116 May 16 08:32	0° Z	
	2115 Jun 12 12:13	0° II			2116 Jun 04 15:38	0° II	
asc. node	2115 Jun 25 08:31	23° II 26'30		morning set	2116 Jun 10 02:02	10° II 59'08	
morning set	2115 Jun 26 15:03	26° II 06'28		asc. node	2116 Jun 11 05:33	13° II 25'00	
	2115 Jun 28 10:52	0° III					
superior conj	2115 Jul 03 14:32	11° III 12'35	1°17'16	superior conj	2116 Jun 17 01:56	26° II 09'56	0°58'17
minimum elong	2115 Jul 03 12:08	10° III 59'28	1°16'55	minimum elong	2116 Jun 16 23:45	25° II 57'57	0°57'53
max. Earth dist.	2115 Jul 05 01:43	14° III 23'41	1.32840 AU	max. Earth dist.	2116 Jun 17 12:11	27° II 06'19	1.32316 AU
evening rise	2115 Jul 10 19:39	26° III 32'00			2116 Jun 18 19:50	0° III	
	2115 Jul 12 12:49	0° IV		evening rise	2116 Jun 24 00:50	11° III 10'53	
	2115 Jul 29 20:52	0° V			2116 Jul 03 18:06	0° IV	
desc. node	2115 Aug 02 13:45	5° V 11'19		desc. node	2116 Jul 19 10:46	23° IV 21'40	
evening max el	2115 Aug 12 13:22	16° V 43'33	27°24'32	evening max el	2116 Jul 24 18:33	29° IV 04'26	26°58'04
retrograde	2115 Aug 26 07:23	24° V 00'48			2116 Jul 25 18:39	0° V	
evening set	2115 Sep 02 12:21	21° V 28'03		retrograde	2116 Aug 07 16:39	6° V 18'00	
min. Earth dist.	2115 Sep 06 02:42	18° V 28'23	0.62871 AU	evening set	2116 Aug 14 16:12	4° V 09'04	
inferior conj	2115 Sep 08 22:08	15° V 45'06	-3°43'04	min. Earth dist.	2116 Aug 18 08:48	1° V 28'55	0.60917 AU
minimum elong	2115 Sep 09 03:29	15° V 32'07	3°41'34		2116 Aug 20 02:57	30° R 0	
morning rise	2115 Sep 15 20:02	10° V 35'14		inferior conj	2116 Aug 21 13:35	28° IV 45'19	-4°28'33
direct	2115 Sep 18 06:57	10° V 07'23		minimum elong	2116 Aug 21 18:27	28° IV 34'55	4°27'40
asc. node	2115 Sep 21 07:42	10° V 50'55		morning rise	2116 Aug 28 22:28	23° IV 56'17	
morning max el	2115 Sep 24 23:32	13° V 33'37	17°51'28	direct	2116 Aug 31 08:23	23° IV 33'07	
	2115 Oct 06 05:27	0° VI		asc. node	2116 Sep 07 04:44	26° IV 47'19	
morning set	2115 Oct 11 05:05	8° VI 46'07		morning max el	2116 Sep 07 12:58	27° IV 06'52	18°02'17
					2116 Sep 10 02:50	0° VI	
superior conj	2115 Oct 22 18:23	28° VI 47'45	0°45'09	morning set	2116 Sep 23 08:58	22° VI 07'56	
minimum elong	2115 Oct 22 22:25	29° VI 04'43	0°44'37		2116 Sep 27 15:03	0° VII	
	2115 Oct 23 11:37	0° VII		superior conj	2116 Oct 03 08:56	10° VI 22'30	1°16'18
max. Earth dist.	2115 Oct 29 12:30	9° VII 54'58	1.43593 AU	minimum elong	2116 Oct 03 13:18	10° VI 41'48	1°15'48
desc. node	2115 Oct 29 13:04	9° VII 57'12		max. Earth dist.	2116 Oct 10 23:35	23° VI 27'11	1.41940 AU
evening rise	2115 Nov 06 22:18	23° VII 12'05			2116 Oct 14 23:14	0° VIII	
	2115 Nov 11 08:35	0° VIII		desc. node	2116 Oct 15 10:05	0° VIII 43'46	
	2115 Dec 02 08:03	0° IX		evening rise	2116 Oct 16 17:41	2° VIII 50'39	
evening max el	2115 Dec 07 01:27	5° IX 26'12	21°13'16		2116 Nov 03 18:35	0° IX	
retrograde	2115 Dec 15 17:05	10° IX 34'23		evening max el	2116 Nov 18 19:22	18° IX 59'00	22°29'36
asc. node	2115 Dec 18 06:58	9° IX 57'30		retrograde	2116 Nov 28 12:45	24° IX 45'42	
evening set	2115 Dec 19 19:49	8° IX 59'12		evening set	2116 Dec 03 03:17	22° IX 53'54	
inferior conj	2115 Dec 25 04:27	2° IX 45'22	2°11'23	asc. node	2116 Dec 04 03:59	21° IX 57'42	
minimum elong	2115 Dec 25 01:59	2° IX 53'51	2°10'33	inferior conj	2116 Dec 08 11:50	16° IX 33'15	1°26'21
min. Earth dist.	2115 Dec 25 12:31	2° IX 17'31	0.67607 AU	minimum elong	2116 Dec 08 09:59	16° IX 39'38	1°25'39
	2115 Dec 27 05:19	30° R 0		min. Earth dist.	2116 Dec 08 08:45	16° IX 43'54	0.67844 AU
morning rise	2115 Dec 30 07:59	26° IX 32'27		morning rise	2116 Dec 13 16:33	10° IX 22'46	
direct	2116 Jan 04 13:19	24° IX 15'55		direct	2116 Dec 18 07:00	8° IX 28'53	
	2116 Jan 14 13:03	0° X		morning max el	2116 Dec 27 13:42	13° IX 56'30	22°06'22
morning max el	2116 Jan 15 02:02	0° X 32'18	23°33'47		2117 Jan 09 10:00	0° X	
desc. node	2116 Jan 25 12:19	13° X 04'18		desc. node	2117 Jan 11 09:20	2° X 47'20	
	2116 Feb 06 07:19	0° XI			2117 Jan 29 06:50	0° XI	
morning set	2116 Feb 19 08:16	20° XI 55'20		morning set	2117 Jan 29 14:03	0° XI 29'05	
max. Earth dist.	2116 Feb 23 08:10	27° XI 48'58	1.38941 AU	max. Earth dist.	2117 Feb 04 05:40	9° XI 46'46	1.41086 AU

superior conj	2117 Feb 12 00:12	23° \approx 11'47	-2°02'35		2118 Jan 21 21:29	0° \approx	
minimum elong	2117 Feb 12 02:29	23° \approx 21'58	2°02'31				
	2117 Feb 15 18:58	0° H		superior conj	2118 Jan 24 04:58	3° \approx 51'57	-2°03'46
evening rise	2117 Feb 22 09:50	12° H 14'11		minimum elong	2118 Jan 24 02:48	3° \approx 42'50	2°03'43
asc. node	2117 Mar 02 03:18	26° H 15'09		evening rise	2118 Feb 05 03:19	24° \approx 35'18	
	2117 Mar 04 09:55	0° Y			2118 Feb 08 04:29	0° H	
evening max el	2117 Mar 10 16:34	8° Y 12'41	18°15'40	asc. node	2118 Feb 17 00:20	14° H 46'28	
retrograde	2117 Mar 17 17:55	11° Y 44'15		evening max el	2118 Feb 22 03:59	21° H 17'33	18°07'19
evening set	2117 Mar 20 06:28	11° Y 18'09		retrograde	2118 Feb 28 17:24	24° H 41'16	
inferior conj	2117 Mar 27 07:22	6° Y 35'08	3°07'48	evening set	2118 Mar 03 11:13	24° H 05'17	
minimum elong	2117 Mar 27 10:41	6° Y 27'54	3°07'11	inferior conj	2118 Mar 09 21:53	19° H 01'27	3°36'54
min. Earth dist.	2117 Mar 30 17:08	3° Y 38'37	0.59580 AU	minimum elong	2118 Mar 09 23:18	18° H 57'52	3°36'47
morning rise	2117 Apr 03 12:31	0° Y 55'33		min. Earth dist.	2118 Mar 12 22:29	16° H 00'50	0.61716 AU
	2117 Apr 05 08:51	30° R H		morning rise	2118 Mar 16 09:55	13° H 05'20	
desc. node	2117 Apr 09 08:32	29° H 03'14		direct	2118 Mar 23 06:46	10° H 39'48	
direct	2117 Apr 09 22:42	29° H 02'18		desc. node	2118 Mar 27 05:34	11° H 23'29	
	2117 Apr 14 16:16	0° Y		morning max el	2118 Apr 06 10:11	18° H 34'52	27°49'03
morning max el	2117 Apr 24 06:37	6° Y 49'39	27°21'40		2118 Apr 16 01:07	0° Y	
	2117 May 11 15:56	0° B			2118 May 04 10:39	0° B	
morning set	2117 May 25 10:27	25° B 42'29		morning set	2118 May 09 14:26	10° B 10'16	
	2117 May 27 11:18	0° II		max. Earth dist.	2118 May 15 10:45	22° B 30'54	1.32420 AU
asc. node	2117 May 29 02:34	3° II 31'10		asc. node	2118 May 15 23:38	23° B 40'46	
max. Earth dist.	2117 Jun 01 00:31	9° II 53'14	1.32176 AU				
				superior conj	2118 May 16 23:57	25° B 53'09	0°10'42
superior conj	2117 Jun 01 13:37	11° II 05'17	0°35'52	minimum elong	2118 May 16 23:27	25° B 50'26	0°10'35
minimum elong	2117 Jun 01 12:06	10° II 56'54	0°35'32	behind sun begin	2118 May 16 19:36	25° B 29'29	
evening rise	2117 Jun 08 10:11	26° II 00'03		behind sun end	2118 May 17 03:17	26° B 11'24	
	2117 Jun 10 08:08	0° B			2118 May 18 21:07	0° II	
	2117 Jun 27 15:28	0° O		evening rise	2118 May 23 21:41	10° II 52'35	
desc. node	2117 Jul 06 07:48	10° O 16'41			2118 Jun 02 16:23	0° B	
evening max el	2117 Jul 06 16:50	10° O 38'26	25°59'08	evening max el	2118 Jun 18 08:24	21° B 29'18	24°35'03
retrograde	2117 Jul 20 16:47	17° O 48'08		desc. node	2118 Jun 23 04:49	25° B 26'37	
evening set	2117 Jul 26 22:43	16° O 14'11		retrograde	2118 Jul 02 06:17	28° B 31'41	
min. Earth dist.	2117 Jul 31 05:19	13° O 37'08	0.58855 AU	evening set	2118 Jul 07 05:37	27° B 36'01	
inferior conj	2117 Aug 03 12:03	11° O 11'37	-4°55'58	min. Earth dist.	2118 Jul 12 19:28	24° B 43'57	0.56943 AU
minimum elong	2117 Aug 03 14:06	11° O 07'49	4°55'51	inferior conj	2118 Jul 15 14:46	22° B 55'43	-4°52'18
morning rise	2117 Aug 11 07:41	6° O 45'30		minimum elong	2118 Jul 15 11:41	23° B 00'43	4°52'04
direct	2117 Aug 13 19:20	6° O 24'58		morning rise	2118 Jul 23 20:28	18° B 50'57	
morning max el	2117 Aug 21 20:33	10° O 15'51	18°33'13	direct	2118 Jul 26 11:42	18° B 31'48	
asc. node	2117 Aug 25 01:46	13° O 52'46		morning max el	2118 Aug 04 19:23	22° B 52'10	19°25'18
	2117 Sep 03 20:47	0° P			2118 Aug 10 16:59	0° O	
morning set	2117 Sep 07 01:03	6° P 04'44		asc. node	2118 Aug 11 22:51	1° O 53'01	
				morning set	2118 Aug 22 01:40	20° O 26'48	
					2118 Aug 26 19:55	0° P	
superior conj	2117 Sep 15 21:48	23° P 02'55	1°35'35				
minimum elong	2117 Sep 16 00:41	23° P 16'21	1°35'22	superior conj	2118 Aug 30 03:26	6° P 33'46	1°44'30
	2117 Sep 19 16:42	0° B		minimum elong	2118 Aug 30 04:25	6° P 38'36	1°44'28
max. Earth dist.	2117 Sep 23 05:49	6° B 17'25	1.39959 AU	max. Earth dist.	2118 Sep 05 09:36	18° P 27'32	1.37909 AU
evening rise	2117 Sep 27 10:51	13° B 29'12		evening rise	2118 Sep 09 03:55	25° P 14'38	
desc. node	2117 Oct 02 07:06	21° B 25'22			2118 Sep 11 21:34	0° B	
	2117 Oct 07 18:44	0° M		desc. node	2118 Sep 19 04:08	11° B 57'54	
	2117 Oct 29 22:37	0° X			2118 Oct 01 09:41	0° M	
evening max el	2117 Nov 01 09:21	2° X 34'25	23°49'34	evening max el	2118 Oct 14 21:24	16° M 12'52	25°06'32
retrograde	2117 Nov 12 05:16	8° X 57'09		retrograde	2118 Oct 26 17:42	23° M 04'30	
evening set	2117 Nov 17 09:09	6° X 48'14		evening set	2118 Nov 01 11:47	20° M 39'38	
asc. node	2117 Nov 21 01:00	2° X 45'31		min. Earth dist.	2118 Nov 05 23:44	15° M 36'56	0.67285 AU
min. Earth dist.	2117 Nov 22 05:15	1° X 11'11	0.67734 AU	inferior conj	2118 Nov 07 00:09	14° M 17'01	-0°18'53
inferior conj	2117 Nov 22 18:59	0° X 24'30	0°35'51	minimum elong	2118 Nov 07 00:37	14° M 15'28	0°18'41
minimum elong	2117 Nov 22 18:08	0° X 27'23	0°35'30	asc. node	2118 Nov 07 22:03	13° M 05'53	
	2117 Nov 23 02:11	30° R M		morning rise	2118 Nov 12 13:39	8° M 18'01	
morning rise	2117 Nov 28 03:05	24° M 18'38		direct	2118 Nov 16 01:49	7° M 07'04	
direct	2117 Dec 02 03:35	22° M 47'22		morning max el	2118 Nov 23 10:07	11° M 16'44	19°39'41
morning max el	2117 Dec 10 07:58	27° M 31'07	20°46'46	greatest brilliancy	2118 Dec 06 16:19	28° M 53'27	-0.7m
	2117 Dec 12 15:07	0° X			2118 Dec 07 10:08	0° X	
desc. node	2117 Dec 29 06:23	22° X 53'42		desc. node	2118 Dec 16 03:25	13° X 16'44	
	2118 Jan 02 23:30	0° B		morning set	2118 Dec 18 14:44	17° X 05'32	
morning set	2118 Jan 08 18:04	8° B 53'19			2118 Dec 26 21:42	0° B	
max. Earth dist.	2118 Jan 17 10:41	22° B 41'45	1.42972 AU				

max. Earth dist.	2118 Dec 30 22:47	6°  23'02	1.44352 AU	morning set	2119 Nov 28 04:43	26°  15'30	
					2119 Nov 30 13:39	0° 	
superior conj	2119 Jan 04 07:22	13°  20'49	-1°47'25	desc. node	2119 Dec 03 00:26	3°  51'30	
minimum elong	2119 Jan 03 23:53	12°  50'45	1°46'51	max. Earth dist.	2119 Dec 13 15:43	20°  33'58	1.45070 AU
	2119 Jan 14 10:53	0° 					
evening rise	2119 Jan 18 01:28	6°  03'55		superior conj	2119 Dec 14 13:08	21°  58'08	-1°12'18
	2119 Feb 01 20:57	0° 		minimum elong	2119 Dec 14 04:44	21°  25'09	1°11'21
asc. node	2119 Feb 03 21:22	2°  36'05			2119 Dec 19 15:24	0° 	
evening max el	2119 Feb 05 16:34	4°  35'48	18°18'02	evening rise	2119 Dec 30 00:46	16°  34'58	
retrograde	2119 Feb 12 03:48	8°  04'58			2120 Jan 07 08:48	0° 	
evening set	2119 Feb 15 02:48	7°  18'09		evening max el	2120 Jan 20 03:46	18°  02'02	18°46'59
inferior conj	2119 Feb 21 02:58	1°  55'01	3°42'49	asc. node	2120 Jan 21 18:26	19°  32'00	
minimum elong	2119 Feb 21 02:32	1°  56'15	3°42'47	retrograde	2120 Jan 26 21:03	21°  47'47	
	2119 Feb 22 19:49	30° 		evening set	2120 Jan 30 01:55	20°  49'08	
min. Earth dist.	2119 Feb 23 13:18	29°  11'51	0.63672 AU	inferior conj	2120 Feb 04 18:47	15°  08'32	3°31'39
morning rise	2119 Feb 27 01:27	25°  49'32		minimum elong	2120 Feb 04 17:00	15°  13'59	3°31'25
direct	2119 Mar 05 23:28	23°  03'28		min. Earth dist.	2120 Feb 06 13:35	12°  57'25	0.65292 AU
desc. node	2119 Mar 14 02:38	26°  08'01		morning rise	2120 Feb 10 07:40	8°  58'12	
	2119 Mar 18 18:12	0° 		direct	2120 Feb 16 23:22	6°  06'15	
morning max el	2119 Mar 19 18:17	0°  58'49	27°39'04	desc. node	2120 Feb 28 23:39	12°  41'23	
	2119 Apr 10 03:34	0° 		morning max el	2120 Mar 01 04:01	13°  50'50	26°56'02
morning set	2119 Apr 23 11:28	24°  09'13'35			2120 Mar 14 06:44	0° 	
	2119 Apr 26 07:58	0° 			2120 Apr 01 19:27	0° 	
max. Earth dist.	2119 Apr 28 14:40	4°  44'32	1.33081 AU	morning set	2120 Apr 05 22:28	7°  09'43'09	
				max. Earth dist.	2120 Apr 10 08:34	16°  25'16	1.34197 AU
superior conj	2119 May 01 07:03	10°  26'35	-0°16'27				
minimum elong	2119 May 01 07:51	10°  30'56	0°16'17	superior conj	2120 Apr 14 08:54	24°  09'39'49	-0°44'29
asc. node	2119 May 02 20:41	13°  48'52		minimum elong	2120 Apr 14 11:09	24°  09'51'35	0°44'02
evening rise	2119 May 08 09:23	25°  40'56			2120 Apr 16 21:52	0° 	
	2119 May 10 11:03	0° 		asc. node	2120 Apr 18 17:44	3°  51'46	
	2119 May 29 00:22	0° 		evening rise	2120 Apr 21 19:30	10°  19'33	
evening max el	2119 May 30 22:13	1°  58'03	22°59'20		2120 May 02 03:51	0° 	
desc. node	2119 Jun 10 01:52	8°  14'29		evening max el	2120 May 11 18:03	12°  19'37'29	21°26'54
retrograde	2119 Jun 13 07:31	8°  38'22		retrograde	2120 May 23 22:06	18°  19'34'44	
evening set	2119 Jun 16 18:43	8°  12'00		evening set	2120 May 26 07:15	18°  19'21'49	
min. Earth dist.	2119 Jun 24 07:17	4°  50'51	0.55519 AU	desc. node	2120 May 26 22:53	18°  19'13'57	
inferior conj	2119 Jun 25 22:02	3°  54'42	-4°04'02	inferior conj	2120 Jun 04 16:58	14°  19'21'45	-2°29'15
minimum elong	2119 Jun 25 14:31	4°  50'53'38	4°02'22	minimum elong	2120 Jun 04 10:16	14°  19'31'08	2°27'02
morning rise	2119 Jul 04 12:46	0° 		min. Earth dist.	2120 Jun 04 19:18	14°  19'18'29	0.54909 AU
	2119 Jul 04 16:43	30° 		morning rise	2120 Jun 13 13:54	10°  19'24'30	
direct	2119 Jul 07 09:03	29°  19'42'58		direct	2120 Jun 16 19:38	10°  19'01'38	
	2119 Jul 09 23:47	0° 		morning max el	2120 Jun 29 07:36	15°  19'56'36	22°09'56
morning max el	2119 Jul 18 07:09	4°  46'33	20°38'33		2120 Jul 10 05:09	0° 	
asc. node	2119 Jul 29 19:55	20°  43'34		asc. node	2120 Jul 15 16:58	9°  47'13	
	2119 Aug 03 19:34	0° 		morning set	2120 Jul 20 17:53	19°  47'55'56	
morning set	2119 Aug 06 08:01	5°  05'55			2120 Jul 25 12:01	0° 	
superior conj	2119 Aug 13 21:00	20°  05'40'23	1°44'54	superior conj	2120 Jul 27 22:48	5°  05'11'34	1°38'26
minimum elong	2119 Aug 13 20:22	20°  05'37'07	1°44'54	minimum elong	2120 Jul 27 21:03	5°  05'02'19	1°38'19
max. Earth dist.	2119 Aug 18 16:41	0° 		max. Earth dist.	2120 Jul 31 08:08	12°  05'14'49	1.34476 AU
	2119 Aug 18 13:01	0° 		evening rise	2120 Aug 04 23:19	21°  05'29'59	
evening rise	2119 Aug 22 17:37	7°  05'59'02			2120 Aug 09 11:41	0° 	
	2119 Sep 04 14:13	0° 		desc. node	2120 Aug 22 22:12	22°  05'13'08	
desc. node	2119 Sep 06 01:10	2°  05'16'08			2120 Aug 28 09:56	0° 	
evening max el	2119 Sep 27 09:25	29°  05'52'29	26°13'08	evening max el	2120 Sep 08 21:47	13°  05'25'57	27°01'40
	2119 Sep 27 12:32	0° 		retrograde	2120 Sep 22 03:30	20°  05'43'12	
retrograde	2119 Oct 10 01:24	7°  05'02'18		evening set	2120 Sep 28 23:24	17°  05'59'56	
evening set	2119 Oct 16 09:18	4°  05'25'04		min. Earth dist.	2120 Oct 02 21:11	14°  05'09'19	0.65363 AU
min. Earth dist.	2119 Oct 20 13:51	29°  05'58'06	0.66497 AU	inferior conj	2120 Oct 04 20:55	11°  05'53'07	-2°15'10
	2119 Oct 20 13:13	30° 		minimum elong	2120 Oct 05 00:32	11°  05'42'46	2°13'46
inferior conj	2119 Oct 22 01:31	28°  05'08'01	-1°16'28	morning rise	2120 Oct 11 02:27	6°  05'16'14	
minimum elong	2119 Oct 22 03:32	28°  05'01'46	1°15'37	asc. node	2120 Oct 11 16:11	6°  05'00'58	
asc. node	2119 Oct 25 19:08	23°  05'56'13		direct	2120 Oct 13 20:38	5°  05'34'58	
morning rise	2119 Oct 27 22:13	22°  05'18'33		morning max el	2120 Oct 20 09:17	9°  05'06'33	18°12'08
direct	2119 Oct 31 00:12	21° 05'24'21			2120 Nov 03 19:04	0°	
morning max el	2119 Nov 06 19:18	25° 05'10'22	18°47'42	morning set	2120 Nov 07 23:35	6° 05'15'23'33	
	2119 Nov 10 21:42	0°		desc. node	2120 Nov 18 21:27	24° 05'33'45	

	2120 Nov 22 07:31	0°♊	morning set	2121 Oct 20 21:28	18°♎48'31	
				2121 Oct 27 10:55	0°♎	
superior conj	2120 Nov 22 16:05	0°♊33'55 -0°25'11				
minimum elong	2120 Nov 22 12:51	0°♊21'08 0°24'44	superior conj	2121 Nov 02 12:44	10°♎05'00 0°21'52	
max. Earth dist.	2120 Nov 25 10:47	4°♊57'04 1.45058 AU	minimum elong	2121 Nov 02 15:05	10°♎14'39 0°21'33	
evening rise	2120 Dec 09 01:24	26°♊12'21	desc. node	2121 Nov 05 18:30	15°♎20'29	
	2120 Dec 11 11:57	0°♊	max. Earth dist.	2121 Nov 08 05:05	19°♎15'10 1.44320 AU	
greatest brilliancy	2120 Dec 21 07:01	15°♊05'38 -0.7m		2121 Nov 15 01:01	0°♊	
	2121 Jan 01 01:48	0°♊	evening rise	2121 Nov 18 11:31	5°♊19'02	
evening max el	2121 Jan 02 11:21	1°♊31'13 19°32'43		2121 Dec 04 22:28	0°♊	
asc. node	2121 Jan 07 15:29	5°♊19'08	evening max el	2121 Dec 16 13:48	15°♊01'36 20°33'01	
retrograde	2121 Jan 09 17:50	5°♊43'14	retrograde	2121 Dec 24 15:44	19°♊47'35	
evening set	2121 Jan 13 05:55	4°♊31'23	asc. node	2121 Dec 25 12:29	19°♊43'24	
	2121 Jan 17 15:54	30°♋♊	evening set	2121 Dec 28 12:40	18°♊21'08	
inferior conj	2121 Jan 18 18:00	28°♊35'35 3°07'49	inferior conj	2122 Jan 02 22:03	12°♊12'49 2°34'16	
minimum elong	2121 Jan 18 15:31	28°♊43'41 3°07'16	minimum elong	2122 Jan 02 19:26	12°♊21'42 2°33'30	
min. Earth dist.	2121 Jan 19 22:04	27°♊03'48 0.66510 AU	min. Earth dist.	2122 Jan 03 12:55	11°♊22'10 0.67323 AU	
morning rise	2121 Jan 24 00:53	22°♊22'58	morning rise	2122 Jan 08 02:03	5°♊59'38	
direct	2121 Jan 30 05:06	19°♊38'16	direct	2122 Jan 13 16:00	3°♊31'27	
morning max el	2121 Feb 11 13:12	26°♊58'10 25°47'59	morning max el	2122 Jan 24 21:39	10°♊13'30 24°24'38	
	2121 Feb 14 09:17	0°♊	desc. node	2122 Feb 01 17:42	19°♊18'20	
desc. node	2121 Feb 14 20:40	0°♊32'12		2122 Feb 09 14:21	0°♊	
	2121 Mar 07 22:00	0°♋		2122 Feb 28 14:44	0°♋	
morning set	2121 Mar 19 19:08	20°♋26'03	morning set	2122 Mar 01 19:58	2°♋06'53	
max. Earth dist.	2121 Mar 23 14:50	27°♋36'01 1.35768 AU	max. Earth dist.	2122 Mar 05 12:19	8°♋39'45 1.37722 AU	
	2121 Mar 24 20:44	0°♌				
superior conj	2121 Mar 29 02:53	8°♌25'03 -1°11'57	superior conj	2122 Mar 12 09:42	21°♋33'08 -1°36'43	
minimum elong	2121 Mar 29 06:28	8°♌43'05 1°11'21	minimum elong	2122 Mar 12 14:01	21°♋53'55 1°36'12	
asc. node	2121 Apr 05 14:47	23°♌44'59		2122 Mar 16 17:22	0°♌	
evening rise	2121 Apr 06 01:56	24°♌41'51	evening rise	2122 Mar 21 02:16	8°♌40'45	
	2121 Apr 08 17:04	0°♌	asc. node	2122 Mar 23 11:49	13°♌23'33	
evening max el	2121 Apr 24 00:51	23°♌50'23 20°08'24		2122 Apr 02 01:14	0°♌	
retrograde	2121 May 04 12:10	28°♌54'30	evening max el	2122 Apr 06 19:07	5°♌42'53 19°08'45	
evening set	2121 May 06 12:46	28°♌43'57	retrograde	2122 Apr 15 14:54	9°♌59'33	
desc. node	2121 May 13 19:53	25°♌45'41	evening set	2122 Apr 17 17:59	9°♌45'39	
inferior conj	2121 May 15 13:12	24°♌45'03 -0°30'10	inferior conj	2122 Apr 26 00:08	5°♌33'50 1°19'06	
minimum elong	2121 May 15 11:48	24°♌47'08 0°29'39	minimum elong	2122 Apr 26 03:07	5°♌28'44 1°18'07	
min. Earth dist.	2121 May 17 08:21	23°♌40'56 0.55260 AU	min. Earth dist.	2122 Apr 28 23:26	3°♌33'02 0.56498 AU	
morning rise	2121 May 24 09:09	20°♌24'38	desc. node	2122 Apr 30 16:55	2°♌28'04	
direct	2121 May 28 08:23	19°♌50'20	morning rise	2122 May 04 09:15	0°♌39'05	
morning max el	2121 Jun 11 00:02	26°♌33'01 23°51'34		2122 May 06 13:21	30°♌♌	
	2121 Jun 14 07:34	0°♍	direct	2122 May 09 08:38	29°♌41'28	
asc. node	2121 Jul 02 14:01	29°♍23'09		2122 May 12 04:03	0°♌	
	2121 Jul 02 21:16	0°♍	morning max el	2122 May 23 14:29	6°♌59'48 25°30'01	
morning set	2121 Jul 05 05:30	4°♍51'47		2122 Jun 09 11:47	0°♍	
			asc. node	2122 Jun 19 11:03	19°♍15'04	
superior conj	2121 Jul 12 06:03	19°♍58'54 1°26'23	morning set	2122 Jun 19 17:10	19°♍47'18	
minimum elong	2121 Jul 12 03:44	19°♍46'23 1°26'05		2122 Jun 24 10:44	0°♍	
max. Earth dist.	2121 Jul 14 08:58	24°♍32'09 1.33321 AU	superior conj	2122 Jun 26 16:27	4°♍54'18 1°09'41	
	2121 Jul 16 23:11	0°♎	minimum elong	2122 Jun 26 14:05	4°♍41'21 1°09'17	
evening rise	2121 Jul 19 16:45	5°♎35'35	max. Earth dist.	2122 Jun 27 16:55	7°♍08'02 1.32567 AU	
	2121 Aug 02 02:35	0°♎	evening rise	2122 Jul 03 18:26	20°♍04'34	
desc. node	2121 Aug 09 19:13	11°♎39'51		2122 Jul 08 17:54	0°♎	
evening max el	2121 Aug 22 09:15	26°♎41'44 27°24'55		2122 Jul 27 09:10	0°♎	
	2121 Aug 26 06:02	0°♎	desc. node	2122 Jul 27 16:14	0°♎22'49	
retrograde	2121 Sep 04 23:31	3°♎59'20	evening max el	2122 Aug 04 17:15	9°♎25'02 27°17'22	
evening set	2121 Sep 12 03:14	1°♎19'21	retrograde	2122 Aug 18 12:51	16°♎40'30	
	2121 Sep 13 18:12	30°♎♎	evening set	2122 Aug 25 17:05	14°♎16'01	
min. Earth dist.	2121 Sep 15 19:29	28°♎03'01 0.63877 AU	min. Earth dist.	2122 Aug 29 07:18	11°♎26'42 0.62067 AU	
inferior conj	2121 Sep 18 07:54	25°♎26'58 -3°12'20	inferior conj	2122 Sep 01 07:23	8°♎41'16 -4°03'55	
minimum elong	2121 Sep 18 12:50	25°♎14'11 3°10'44	minimum elong	2122 Sep 01 12:45	8°♎28'54 4°02'37	
morning rise	2121 Sep 24 23:33	20°♎06'13	morning rise	2122 Sep 08 09:58	3°♎40'06	
direct	2121 Sep 27 12:29	19°♎34'14	direct	2122 Sep 10 20:13	3°♎14'28	
asc. node	2121 Sep 28 13:12	19°♎39'36	asc. node	2122 Sep 15 10:14	4°♎48'48	
morning max el	2121 Oct 04 01:27	22°♎59'51 17°53'54	morning max el	2122 Sep 17 16:46	6°♎42'26 17°53'48	
	2121 Oct 09 13:39	0°♎		2122 Oct 02 17:12	0°♎	

morning set	2122 Oct 03 16:02	1°♄43'09			2123 Sep 24 21:29	0°♄	
superior conj	2122 Oct 14 12:10	20°♄55'12	0°59'52	superior conj	2123 Sep 26 12:51	2°♄59'23	1°25'52
minimum elong	2122 Oct 14 16:41	21°♄14'33	0°59'17	minimum elong	2123 Sep 26 16:43	3°♄16'50	1°25'29
	2122 Oct 19 21:30	0°♄		max. Earth dist.	2123 Oct 04 03:31	16°♄20'16	1.41115 AU
max. Earth dist.	2122 Oct 21 19:13	3°♄07'56	1.42944 AU	evening rise	2123 Oct 09 02:21	24°♄34'02	
desc. node	2122 Oct 23 15:32	6°♄07'51		desc. node	2123 Oct 10 12:33	26°♄52'28	
evening rise	2122 Oct 28 22:38	14°♄33'04			2123 Oct 12 11:31	0°♄	
	2122 Nov 08 01:43	0°♄			2123 Nov 01 23:11	0°♄	
evening max el	2122 Nov 29 10:32	28°♄32'34	21°44'50	evening max el	2123 Nov 12 02:23	12°♄05'28	23°03'36
	2122 Nov 30 22:36	0°♄		retrograde	2123 Nov 22 07:26	18°♄08'54	
retrograde	2122 Dec 08 12:49	3°♄57'23		evening set	2123 Nov 27 03:23	16°♄09'52	
asc. node	2122 Dec 12 09:29	2°♄35'43		asc. node	2123 Nov 29 06:31	14°♄01'13	
evening set	2122 Dec 12 20:23	2°♄15'03		min. Earth dist.	2123 Dec 02 04:39	10°♄13'31	0.67829 AU
	2122 Dec 15 02:48	30°♄♂		inferior conj	2123 Dec 02 12:17	9°♄47'10	1°05'34
inferior conj	2122 Dec 18 04:47	25°♄57'37	1°53'02	minimum elong	2123 Dec 02 10:50	9°♄52'13	1°04'58
minimum elong	2122 Dec 18 02:32	26°♄05'24	1°52'14	morning rise	2123 Dec 07 18:10	3°♄38'11	
min. Earth dist.	2122 Dec 18 07:55	25°♄46'46	0.67751 AU	direct	2123 Dec 12 02:26	1°♄54'10	
morning rise	2122 Dec 23 08:32	19°♄45'33		morning max el	2123 Dec 20 21:31	7°♄02'47	21°31'13
direct	2122 Dec 28 07:23	17°♄38'46		desc. node	2124 Jan 06 11:47	28°♄37'54	
morning max el	2123 Jan 07 07:21	23°♄34'31	22°56'06		2124 Jan 07 10:15	0°♄	
	2123 Jan 12 23:20	0°♄		morning set	2124 Jan 21 12:31	21°♄30'54	
desc. node	2123 Jan 19 14:44	8°♄44'06			2124 Jan 26 19:02	0°♄	
	2123 Feb 03 00:17	0°♄		max. Earth dist.	2124 Jan 28 07:35	2°♄30'07	1.41930 AU
morning set	2123 Feb 10 18:48	12°♄30'25					
max. Earth dist.	2123 Feb 15 07:39	20°♄09'51	1.39866 AU	superior conj	2124 Feb 04 20:02	15°♄13'28	-2°04'58
	2123 Feb 20 21:44	0°♄		minimum elong	2124 Feb 04 20:44	15°♄16'31	2°04'57
					2124 Feb 13 03:16	0°♄	
superior conj	2123 Feb 23 01:09	3°♄53'32	-1°55'47	evening rise	2124 Feb 15 20:17	4°♄56'23	
minimum elong	2123 Feb 23 04:49	4°♄10'21	1°55'33	asc. node	2124 Feb 25 05:52	21°♄32'52	
evening rise	2123 Mar 04 17:37	22°♄08'42			2124 Mar 02 07:17	0°♄	
	2123 Mar 08 21:27	0°♄		evening max el	2124 Mar 03 08:09	1°♄05'00	18°09'45
asc. node	2123 Mar 10 08:50	2°♄42'00		retrograde	2124 Mar 10 03:11	4°♄31'22	
evening max el	2123 Mar 20 22:38	18°♄10'54	18°29'17	evening set	2124 Mar 12 17:58	4°♄01'19	
retrograde	2123 Mar 28 12:18	21°♄54'22			2124 Mar 18 14:24	30°♄♂	
evening set	2123 Mar 30 21:13	21°♄33'34		inferior conj	2124 Mar 19 12:23	29°♄09'39	3°23'23
inferior conj	2123 Apr 07 08:05	17°♄02'41	2°37'46	minimum elong	2124 Mar 19 14:58	29°♄03'41	3°23'01
minimum elong	2123 Apr 07 12:01	16°♄54'49	2°36'48	min. Earth dist.	2124 Mar 22 19:24	26°♄08'04	0.60500 AU
min. Earth dist.	2123 Apr 10 18:26	14°♄19'40	0.58359 AU	morning rise	2124 Mar 26 09:54	23°♄21'52	
morning rise	2123 Apr 14 23:52	11°♄36'22		direct	2124 Apr 02 01:57	21°♄13'25	
desc. node	2123 Apr 17 13:56	10°♄34'06		desc. node	2124 Apr 03 10:58	21°♄18'40	
direct	2123 Apr 20 23:13	10°♄04'17		morning max el	2124 Apr 16 08:25	29°♄05'34	27°37'45
morning max el	2123 May 05 08:29	17°♄44'55	26°49'31		2124 Apr 17 06:00	0°♄	
	2123 May 15 12:52	0°♄			2124 May 08 09:28	0°♄	
	2123 Jun 01 21:39	0°♄		morning set	2124 May 18 10:05	19°♄14'29	
morning set	2123 Jun 04 03:18	4°♄37'06		asc. node	2124 May 23 05:10	29°♄25'45	
asc. node	2123 Jun 06 08:07	9°♄17'42			2124 May 23 11:28	0°♄	
				max. Earth dist.	2124 May 24 16:18	2°♄37'13	1.32230 AU
superior conj	2123 Jun 11 04:12	19°♄51'43	0°49'09				
minimum elong	2123 Jun 11 02:15	19°♄40'59	0°48'46	superior conj	2124 May 25 15:33	4°♄44'36	0°25'28
max. Earth dist.	2123 Jun 11 04:35	19°♄53'49	1.32206 AU	minimum elong	2124 May 25 14:25	4°♄38'25	0°25'14
	2123 Jun 15 19:29	0°♄		evening rise	2124 Jun 01 12:10	19°♄39'44	
evening rise	2123 Jun 18 01:40	4°♄48'35			2124 Jun 06 13:33	0°♄	
	2123 Jul 01 11:10	0°♄			2124 Jun 26 00:23	0°♄	
desc. node	2123 Jul 14 13:15	18°♄04'01		evening max el	2124 Jun 28 14:34	2°♄39'24	25°25'46
evening max el	2123 Jul 17 19:23	21°♄25'13	26°36'36	desc. node	2124 Jun 30 10:15	4°♄18'15	
retrograde	2123 Jul 31 18:41	28°♄38'05		retrograde	2124 Jul 12 14:55	9°♄47'18	
evening set	2123 Aug 07 12:25	26°♄42'38		evening set	2124 Jul 18 08:53	8°♄30'11	
min. Earth dist.	2123 Aug 11 08:57	24°♄06'10	0.60038 AU	min. Earth dist.	2124 Jul 23 02:36	5°♄48'27	0.57998 AU
inferior conj	2123 Aug 14 15:59	21°♄27'30	-4°43'05	inferior conj	2124 Jul 26 06:17	3°♄36'38	-4°59'08
minimum elong	2123 Aug 14 19:59	21°♄19'26	4°42'34	minimum elong	2124 Jul 26 06:21	3°♄36'31	4°59'09
morning rise	2123 Aug 22 05:34	16°♄48'30			2124 Aug 01 07:18	30°♄♂	
direct	2123 Aug 24 15:50	16°♄26'45		morning rise	2124 Aug 03 06:16	29°♄19'57	
morning max el	2123 Sep 01 04:10	20°♄06'25	18°12'59	direct	2124 Aug 05 01:04	29°♄00'15	
asc. node	2123 Sep 02 07:17	21°♄16'06			2124 Aug 10 01:28	0°♄	
	2123 Sep 08 13:44	0°♄		morning max el	2124 Aug 14 08:24	3°♄02'37	18°52'45
morning set	2123 Sep 17 01:34	15°♄20'24		asc. node	2124 Aug 19 04:22	8°♄46'30	

morning set	2124 Aug 30 21:42	29°Ω28'50		morning rise	2125 Jul 15 10:01	11°Ω02'46	
	2124 Aug 31 04:03	0°൬		direct	2125 Jul 18 03:20	10°Ω43'43	
				morning max el	2125 Jul 28 02:34	15°Ω21'07	19°53'58
superior conj	2124 Sep 08 09:30	16°൬02'50	1°40'31	asc. node	2125 Aug 06 01:27	27°Ω05'34	
minimum elong	2124 Sep 08 11:34	16°൬12'43	1°40'24		2125 Aug 07 18:14	0°Ω	
max. Earth dist.	2124 Sep 15 07:50	28°൬50'34	1.39075 AU	morning set	2125 Aug 15 01:04	13°Ω58'55	
	2124 Sep 15 23:27	0°Ω					
evening rise	2124 Sep 19 05:55	5°Ω41'41		superior conj	2125 Aug 22 20:42	29°Ω49'55	1°45'36
desc. node	2124 Sep 26 09:36	17°Ω30'48		minimum elong	2125 Aug 22 20:56	29°Ω51'07	1°45'36
	2124 Oct 04 13:09	0°൬			2125 Aug 22 22:43	0°൬	
evening max el	2124 Oct 24 15:24	25°൬42'41	24°23'15	max. Earth dist.	2125 Aug 28 12:39	10°൬50'23	1.37076 AU
	2124 Oct 29 16:50	0°✎		evening rise	2125 Sep 01 08:19	17°൬53'25	
retrograde	2124 Nov 04 22:20	2°✎18'59			2125 Sep 08 08:07	0°Ω	
evening set	2124 Nov 10 08:06	0°✎03'20		desc. node	2125 Sep 13 06:37	7°Ω57'50	
	2124 Nov 10 09:39	30°൬			2125 Sep 28 19:54	0°൬	
min. Earth dist.	2124 Nov 15 00:41	24°൬40'28	0.67577 AU	evening max el	2125 Oct 07 03:28	9°൬22'33	25°36'43
asc. node	2124 Nov 15 03:34	24°൬30'51		retrograde	2125 Oct 19 08:37	16°൬22'30	
inferior conj	2124 Nov 15 18:50	23°൬39'34	0°13'08	evening set	2125 Oct 25 08:44	13°൬51'59	
minimum elong	2124 Nov 15 18:31	23°൬40'39	0°12'59	min. Earth dist.	2125 Oct 29 17:34	9°൬04'20	0.66993 AU
transit middle	2124 Nov 15 18:31	23°൬40'39	0°12'59	inferior conj	2125 Oct 30 22:36	7°൬31'28	-0°43'02
transit begin	2124 Nov 15 16:52	23°൬46'11		minimum elong	2125 Oct 30 23:43	7°൬27'54	0°42'34
transit end	2124 Nov 15 20:10	23°൬35'08		asc. node	2125 Nov 02 00:38	4°൬56'39	
morning rise	2124 Nov 21 04:58	17°൬36'03		morning rise	2125 Nov 05 14:57	1°൬36'08	
direct	2124 Nov 25 00:02	16°൬13'38		direct	2125 Nov 08 22:37	0°൬32'34	
morning max el	2124 Dec 02 19:00	20°൬41'46	20°16'30	morning max el	2125 Nov 16 00:15	4°൬30'34	19°15'40
	2124 Dec 10 10:21	0°✎			2125 Dec 04 05:19	0°✎	
desc. node	2124 Dec 23 08:50	18°✎52'08		morning set	2125 Dec 09 11:45	8°✎10'02	
morning set	2124 Dec 30 10:17	29°✎40'29		desc. node	2125 Dec 10 05:52	9°✎20'26	
	2124 Dec 30 15:19	0°Ω			2125 Dec 23 10:46	0°Ω	
max. Earth dist.	2125 Jan 09 15:36	15°Ω45'54	1.43633 AU	max. Earth dist.	2125 Dec 23 06:29	29°✎43'07	1.44749 AU
superior conj	2125 Jan 15 13:42	25°Ω23'32	-1°59'12	superior conj	2125 Dec 26 05:49	4°Ω25'32	-1°34'37
minimum elong	2125 Jan 15 09:08	25°Ω04'43	1°58'59	minimum elong	2125 Dec 25 21:06	3°Ω50'56	1°33'49
	2125 Jan 18 08:19	0°≈		evening rise	2126 Jan 09 18:43	27°Ω59'51	
evening rise	2125 Jan 28 06:04	16°≈55'54			2126 Jan 10 23:46	0°≈	
	2125 Feb 04 19:51	0°✎		asc. node	2126 Jan 28 23:56	27°≈16'06	
asc. node	2125 Feb 11 02:54	9°✎47'51		evening max el	2126 Jan 29 08:49	27°≈39'05	18°28'11
evening max el	2125 Feb 14 20:31	14°✎16'56	18°09'35		2126 Feb 01 04:10	0°✎	
retrograde	2125 Feb 21 07:43	17°✎41'00		retrograde	2126 Feb 04 21:31	1°✎13'50	
evening set	2125 Feb 24 03:49	17°✎00'26		evening set	2126 Feb 07 23:00	0°✎21'56	
inferior conj	2125 Mar 02 09:36	11°✎48'19	3°41'47		2126 Feb 08 13:25	30°൬	
minimum elong	2125 Mar 02 10:12	11°✎46'46	3°41'45	inferior conj	2126 Feb 13 19:41	24°≈50'54	3°39'51
min. Earth dist.	2125 Mar 05 04:33	8°✎52'55	0.62593 AU	minimum elong	2126 Feb 13 18:36	24°≈54'04	3°39'46
morning rise	2125 Mar 08 15:27	5°✎47'47		min. Earth dist.	2126 Feb 15 23:17	22°≈20'25	0.64409 AU
direct	2125 Mar 15 14:05	3°✎11'40		morning rise	2126 Feb 19 13:39	18°≈43'10	
desc. node	2125 Mar 21 08:01	4°✎44'20		direct	2126 Feb 26 09:44	15°≈53'09	
morning max el	2125 Mar 29 13:59	11°✎07'17	27°49'02	desc. node	2126 Mar 08 05:04	20°≈19'19	
	2125 Apr 13 10:34	0°൬		morning max el	2126 Mar 11 23:06	23°≈44'31	27°24'28
	2125 Apr 30 16:55	0°✎			2126 Mar 17 13:50	0°✎	
morning set	2125 May 02 11:26	3°✎32'31			2126 Apr 06 18:29	0°൬	
max. Earth dist.	2125 May 08 00:14	15°✎05'30	1.32655 AU	morning set	2126 Apr 16 04:42	17°൬23'12	
				max. Earth dist.	2126 Apr 21 00:35	27°൬07'33	1.33505 AU
					2126 Apr 22 09:43	0°✎	
superior conj	2125 May 10 00:46	19°✎27'07	-0°00'39				
minimum elong	2125 May 10 00:47	19°✎27'15	0°00'38	superior conj	2126 Apr 24 05:57	3°✎53'14	-0°28'17
behind sun begin	2125 May 09 19:36	18°✎59'09		minimum elong	2126 Apr 24 07:22	4°✎00'45	0°27'59
behind sun end	2125 May 10 05:59	19°✎55'22		asc. node	2126 Apr 26 23:17	9°✎41'40	
asc. node	2125 May 10 02:15	19°✎35'08		evening rise	2126 May 01 11:20	19°✎17'04	
	2125 May 14 21:19	0°II			2126 May 06 18:15	0°II	
evening rise	2125 May 17 00:00	4°II31'16		evening max el	2126 May 22 20:17	23°II47'45	22°18'45
	2125 May 30 16:07	0°Ω			2126 Jun 02 12:10	0°Ω	
evening max el	2125 Jun 10 04:46	13°Ω17'47	23°54'47	desc. node	2126 Jun 04 04:18	0°Ω11'05	
desc. node	2125 Jun 17 07:17	18°Ω32'06		retrograde	2126 Jun 04 18:43	0°Ω11'54	
retrograde	2125 Jun 23 22:51	20°Ω12'18			2126 Jun 07 02:12	30°൬II	
evening set	2125 Jun 28 06:38	19°Ω31'04		evening set	2126 Jun 07 17:10	29°II52'51	
min. Earth dist.	2125 Jul 04 15:24	16°Ω28'08	0.56258 AU	min. Earth dist.	2126 Jun 16 02:47	26°II15'50	0.55152 AU
inferior conj	2125 Jul 07 00:22	15°Ω01'06	-4°37'53	inferior conj	2126 Jun 17 01:08	25°II44'19	-3°28'47
minimum elong	2125 Jul 06 19:01	15°Ω09'21	4°37'07				




























































































































minimum elong	2126 Jun 16 17:11	25° Π 55'33	3°26'35	desc. node	2127 May 22 01:20	9° Π 01'24	
morning rise	2126 Jun 25 19:08	21° Π 52'32		inferior conj	2127 May 27 18:48	6° Π 05'54	-1°39'41
direct	2126 Jun 28 18:53	21° Π 32'24		minimum elong	2127 May 27 14:07	6° Π 12'35	1°38'01
morning max el	2126 Jul 10 09:22	26° Π 56'40	21°15'32	min. Earth dist.	2127 May 28 15:08	5° Π 36'57	0.54939 AU
	2126 Jul 13 08:02	0° \mathfrak{C}		morning rise	2127 Jun 05 16:30	2° Π 00'55	
asc. node	2126 Jul 23 22:31	16° \mathfrak{C} 01'49		direct	2127 Jun 09 04:15	1° Π 34'40	
morning set	2126 Jul 30 09:11	28° \mathfrak{C} 43'58		morning max el	2127 Jun 22 06:01	7° Π 50'58	22°52'34
	2126 Jul 30 23:51	0° Ω			2127 Jul 07 23:29	0° \mathfrak{C}	
				asc. node	2127 Jul 10 19:33	5° \mathfrak{C} 25'02	
superior conj	2126 Aug 06 18:12	14° Ω 08'35	1°42'55	morning set	2127 Jul 14 20:00	13° \mathfrak{C} 37'03	
minimum elong	2126 Aug 06 17:01	14° Ω 02'29	1°42'52				
max. Earth dist.	2126 Aug 10 23:13	22° Ω 42'24	1.35323 AU	superior conj	2127 Jul 21 22:39	28° \mathfrak{C} 47'43	1°33'57
	2126 Aug 14 16:57	0° Π		minimum elong	2127 Jul 21 20:35	28° \mathfrak{C} 36'45	1°33'45
evening rise	2126 Aug 15 05:25	0° Π 59'13			2127 Jul 22 12:14	0° Ω	
desc. node	2126 Aug 31 03:38	28° Π 07'59		max. Earth dist.	2127 Jul 24 18:34	4° Ω 46'16	1.33935 AU
	2126 Sep 01 09:21	0° \mathfrak{L}		evening rise	2127 Jul 29 16:34	14° Ω 45'59	
evening max el	2126 Sep 19 15:37	23° \mathfrak{L} 00'14	26°36'20		2127 Aug 06 20:53	0° Π	
	2126 Sep 30 12:31	0° \mathfrak{M}		desc. node	2127 Aug 18 00:40	17° Π 53'16	
retrograde	2126 Oct 02 13:48	0° \mathfrak{M} 13'54			2127 Aug 27 03:53	0° \mathfrak{L}	
	2126 Oct 04 13:15	30° \mathfrak{R} \mathfrak{L}		evening max el	2127 Sep 02 03:34	6° \mathfrak{L} 26'36	27°14'53
evening set	2126 Oct 09 03:21	27° \mathfrak{L} 32'56		retrograde	2127 Sep 15 13:32	13° \mathfrak{L} 45'20	
min. Earth dist.	2126 Oct 13 04:53	23° \mathfrak{L} 21'46	0.66064 AU	evening set	2127 Sep 22 13:29	11° \mathfrak{L} 01'47	
inferior conj	2126 Oct 14 21:40	21° \mathfrak{L} 19'54	-1°41'23	min. Earth dist.	2127 Sep 26 08:32	7° \mathfrak{L} 26'27	0.64773 AU
minimum elong	2126 Oct 15 00:22	21° \mathfrak{L} 11'47	1°40'16	inferior conj	2127 Sep 28 13:47	5° \mathfrak{L} 00'30	-2°39'50
asc. node	2126 Oct 19 21:41	16° \mathfrak{L} 13'59		minimum elong	2127 Sep 28 18:02	4° \mathfrak{L} 48'50	2°38'18
morning rise	2126 Oct 20 21:58	15° \mathfrak{L} 35'39			2127 Oct 04 01:13	30° \mathfrak{R} Π	
direct	2126 Oct 23 20:23	14° \mathfrak{L} 47'23		morning rise	2127 Oct 04 23:32	29° Π 30'20	
morning max el	2126 Oct 30 11:49	18° \mathfrak{L} 25'48	18°30'33	asc. node	2127 Oct 06 18:44	28° Π 57'23	
	2126 Nov 08 05:48	0° \mathfrak{M}		direct	2127 Oct 07 15:04	28° Π 53'34	
morning set	2126 Nov 19 13:31	17° \mathfrak{M} 55'47			2127 Oct 11 05:11	0° \mathfrak{L}	
desc. node	2126 Nov 27 02:53	29° \mathfrak{M} 58'32		morning max el	2127 Oct 14 03:08	2° \mathfrak{L} 21'43	18°02'14
	2126 Nov 27 03:15	0° \mathfrak{X}		morning set	2127 Oct 31 20:29	29° \mathfrak{L} 07'56	
					2127 Nov 01 08:55	0° \mathfrak{M}	
superior conj	2126 Dec 05 07:30	12° \mathfrak{X} 53'24	-0°53'05	desc. node	2127 Nov 13 23:55	20° \mathfrak{M} 43'01	
minimum elong	2126 Dec 05 00:48	12° \mathfrak{X} 27'06	0°52'13				
max. Earth dist.	2126 Dec 06 01:00	14° \mathfrak{X} 02'06	1.45154 AU	superior conj	2127 Nov 14 16:01	21° \mathfrak{M} 47'29	-0°04'33
	2126 Dec 16 04:49	0° \mathfrak{Z}		minimum elong	2127 Nov 14 15:27	21° \mathfrak{M} 45'14	0°04'28
evening rise	2126 Dec 21 07:56	8° \mathfrak{Z} 06'16		behind sun begin	2127 Nov 14 05:13	21° \mathfrak{M} 04'15	
greatest brilliancy	2126 Dec 30 16:55	22° \mathfrak{Z} 55'10	-0.8m	behind sun end	2127 Nov 15 01:41	22° \mathfrak{M} 26'10	
	2127 Jan 04 07:41	0° \mathfrak{A}		max. Earth dist.	2127 Nov 18 19:42	28° \mathfrak{M} 23'39	1.44820 AU
evening max el	2127 Jan 12 18:35	11° \mathfrak{A} 06'00	19°04'29		2127 Nov 19 20:08	0° \mathfrak{X}	
asc. node	2127 Jan 15 20:58	13° \mathfrak{A} 44'10		evening rise	2127 Dec 01 00:49	17° \mathfrak{X} 26'07	
retrograde	2127 Jan 19 16:42	15° \mathfrak{A} 02'11			2127 Dec 09 05:17	0° \mathfrak{Z}	
evening set	2127 Jan 23 00:27	13° \mathfrak{A} 58'02		greatest brilliancy	2127 Dec 14 23:00	8° \mathfrak{Z} 38'17	-0.6m
inferior conj	2127 Jan 28 14:58	8° \mathfrak{A} 10'23	3°22'54	evening max el	2127 Dec 27 00:01	24° \mathfrak{Z} 35'18	19°56'48
minimum elong	2127 Jan 28 12:49	8° \mathfrak{A} 17'11	3°22'33	asc. node	2128 Jan 02 18:00	28° \mathfrak{Z} 57'32	
min. Earth dist.	2127 Jan 30 03:15	6° \mathfrak{A} 15'38	0.65851 AU	retrograde	2128 Jan 03 14:19	29° \mathfrak{Z} 01'31	
morning rise	2127 Feb 03 00:52	1° \mathfrak{A} 58'40		evening set	2128 Jan 07 05:50	27° \mathfrak{Z} 43'48	
	2127 Feb 05 21:37	30° \mathfrak{R} \mathfrak{Z}		inferior conj	2128 Jan 12 16:31	21° \mathfrak{Z} 42'15	2°54'39
direct	2127 Feb 09 11:59	29° \mathfrak{Z} 08'42		minimum elong	2128 Jan 12 13:56	21° \mathfrak{Z} 50'55	2°54'01
	2127 Feb 13 09:08	0° \mathfrak{A}		min. Earth dist.	2128 Jan 13 14:50	20° \mathfrak{Z} 27'45	0.66893 AU
morning max el	2127 Feb 22 09:00	6° \mathfrak{A} 44'51	26°29'46	morning rise	2128 Jan 17 21:48	15° \mathfrak{Z} 28'55	
desc. node	2127 Feb 23 02:05	7° \mathfrak{A} 28'32		direct	2128 Jan 23 20:06	12° \mathfrak{Z} 50'14	
	2127 Mar 12 08:57	0° \mathfrak{H}		morning max el	2128 Feb 04 17:52	19° \mathfrak{Z} 56'31	25°13'52
morning set	2127 Mar 30 10:12	0° \mathfrak{Y} 34'37		desc. node	2128 Feb 09 23:05	25° \mathfrak{Z} 45'05	
	2127 Mar 30 02:50	0° \mathfrak{Y}			2128 Feb 13 08:38	0° \mathfrak{A}	
max. Earth dist.	2127 Apr 03 13:52	8° \mathfrak{Y} 35'35	1.34809 AU		2128 Mar 04 12:23	0° \mathfrak{H}	
				morning set	2128 Mar 11 23:12	12° \mathfrak{H} 53'21	
superior conj	2127 Apr 08 04:46	17° \mathfrak{Y} 55'13	-0°56'17	max. Earth dist.	2128 Mar 15 15:29	19° \mathfrak{H} 38'09	1.36552 AU
minimum elong	2127 Apr 08 07:38	18° \mathfrak{Y} 09'54	0°55'46		2128 Mar 21 01:05	0° \mathfrak{Y}	
asc. node	2127 Apr 13 20:18	29° \mathfrak{Y} 40'47					
	2127 Apr 13 23:59	0° \mathfrak{B}		superior conj	2128 Mar 21 18:26	1° \mathfrak{Y} 25'34	-1°22'56
evening rise	2127 Apr 15 20:08	3° \mathfrak{B} 49'33		minimum elong	2128 Mar 21 22:26	1° \mathfrak{Y} 45'21	1°22'21
	2127 Apr 30 17:50	0° Π		evening rise	2128 Mar 30 00:17	18° \mathfrak{Y} 02'27	
evening max el	2127 May 04 20:17	4° Π 39'05	20°51'22	asc. node	2128 Mar 30 17:19	19° \mathfrak{Y} 28'11	
retrograde	2127 May 16 08:01	10° Π 14'44			2128 Apr 05 03:50	0° \mathfrak{B}	
evening set	2127 May 18 11:24	10° Π 03'49		evening max el	2128 Apr 16 08:09	16° \mathfrak{B} 09'02	19°40'40

retrograde	2128 Apr 26 02:07	20°♄51'31		retrograde	2129 Apr 07 12:08	2°♄17'33	
evening set	2128 Apr 28 02:45	20°♄40'13		evening set	2129 Apr 09 17:45	2°♄01'00	
inferior conj	2128 May 06 20:03	16°♄37'24	0°19'00		2129 Apr 14 06:35	30°♄	
minimum elong	2128 May 06 20:53	16°♄36'06	0°18'42	inferior conj	2129 Apr 17 15:32	27°♄41'44	1°56'38
desc. node	2128 May 07 22:19	15°♄56'03		minimum elong	2129 Apr 17 19:19	27°♄34'49	1°55'31
min. Earth dist.	2128 May 09 05:18	15°♄07'53	0.55690 AU	min. Earth dist.	2129 Apr 20 21:45	25°♄20'31	0.57234 AU
morning rise	2128 May 15 12:27	12°♄02'26		desc. node	2129 Apr 24 19:19	22°♄58'52	
direct	2128 May 19 21:25	11°♄19'41		morning rise	2129 Apr 25 17:45	22°♄32'53	
morning max el	2128 Jun 02 20:54	18°♄20'04	24°34'35	direct	2129 May 01 04:10	21°♄21'18	
	2128 Jun 12 12:49	0°♄		morning max el	2129 May 15 12:03	28°♄50'26	26°06'57
asc. node	2128 Jun 26 16:35	25°♄08'07			2129 May 16 15:57	0°♄	
morning set	2128 Jun 28 07:49	28°♄33'02			2129 Jun 06 01:45	0°♄	
	2128 Jun 29 00:14	0°♄		morning set	2129 Jun 12 19:04	13°♄26'52	
				asc. node	2129 Jun 13 13:38	15°♄05'13	
superior conj	2128 Jul 05 07:30	13°♄39'17	1°19'49				
minimum elong	2128 Jul 05 05:06	13°♄26'14	1°19'28	superior conj	2129 Jun 19 18:43	28°♄36'33	1°01'25
max. Earth dist.	2128 Jul 06 22:32	17°♄10'46	1.32955 AU	minimum elong	2129 Jun 19 16:28	28°♄24'13	1°01'01
evening rise	2128 Jul 12 13:54	29°♄02'38			2129 Jun 20 09:55	0°♄	
	2128 Jul 13 01:12	0°♄		max. Earth dist.	2129 Jun 20 08:36	29°♄52'48	1.32370 AU
	2128 Jul 29 23:55	0°♄		evening rise	2129 Jun 26 18:18	13°♄39'36	
desc. node	2128 Aug 03 21:41	7°♄03'01			2129 Jul 05 02:55	0°♄	
evening max el	2128 Aug 14 13:51	19°♄29'58	27°25'41	desc. node	2129 Jul 21 18:41	25°♄22'42	
retrograde	2128 Aug 28 07:05	26°♄47'23			2129 Jul 25 20:42	0°♄	
evening set	2128 Sep 04 11:55	24°♄12'29		evening max el	2129 Jul 27 20:00	1°♄57'41	27°04'08
min. Earth dist.	2128 Sep 08 02:39	21°♄08'40	0.63138 AU	retrograde	2129 Aug 10 17:23	9°♄11'21	
inferior conj	2128 Sep 10 20:16	18°♄26'55	-3°35'17	evening set	2129 Aug 17 18:33	6°♄58'03	
minimum elong	2128 Sep 11 01:33	18°♄13'52	3°33'44	min. Earth dist.	2129 Aug 21 10:16	4°♄15'58	0.61224 AU
morning rise	2128 Sep 17 16:32	13°♄14'02		inferior conj	2129 Aug 24 13:59	1°♄31'28	-4°22'34
direct	2128 Sep 20 03:51	12°♄45'13		minimum elong	2129 Aug 24 19:03	1°♄20'25	4°21'35
asc. node	2128 Sep 22 15:46	13°♄15'16			2129 Aug 26 08:55	30°♄	
morning max el	2128 Sep 26 19:19	16°♄11'11	17°51'31	morning rise	2129 Aug 31 21:15	26°♄39'06	
	2128 Oct 06 12:56	0°♄		direct	2129 Sep 03 07:12	26°♄15'19	
morning set	2128 Oct 13 03:58	11°♄30'57		asc. node	2129 Sep 09 12:49	28°♄59'55	
	2128 Oct 23 21:09	0°♄		morning max el	2129 Sep 10 09:22	29°♄47'13	17°59'26
					2129 Sep 10 14:33	0°♄	
superior conj	2128 Oct 24 23:43	1°♄51'08	0°39'24	morning set	2129 Sep 26 05:39	24°♄46'24	
minimum elong	2128 Oct 25 03:26	2°♄06'39	0°38'53		2129 Sep 29 01:50	0°♄	
desc. node	2128 Oct 30 20:58	11°♄30'16					
max. Earth dist.	2128 Oct 31 12:03	12°♄31'02	1.43799 AU	superior conj	2129 Oct 06 10:30	13°♄14'41	1°12'21
evening rise	2128 Nov 09 09:10	26°♄30'11		minimum elong	2129 Oct 06 14:59	13°♄34'18	1°11'50
	2128 Nov 11 15:43	0°♄		max. Earth dist.	2129 Oct 14 00:10	26°♄09'42	1.42217 AU
	2128 Dec 02 05:42	0°♄			2129 Oct 16 08:12	0°♄	
evening max el	2128 Dec 09 00:04	8°♄05'46	21°02'31	desc. node	2129 Oct 17 18:01	2°♄17'10	
retrograde	2128 Dec 17 11:59	13°♄07'55		evening rise	2129 Oct 20 02:02	6°♄01'25	
asc. node	2128 Dec 19 15:01	12°♄42'46			2129 Nov 04 22:38	0°♄	
evening set	2128 Dec 21 13:10	11°♄35'04		evening max el	2129 Nov 21 18:44	21°♄38'01	22°17'49
inferior conj	2128 Dec 26 21:57	5°♄22'40	2°17'37	retrograde	2129 Dec 01 08:04	27°♄18'51	
minimum elong	2128 Dec 26 19:26	5°♄31'18	2°16'49	evening set	2129 Dec 05 20:46	25°♄29'28	
min. Earth dist.	2128 Dec 27 07:46	4°♄48'53	0.67548 AU	asc. node	2129 Dec 06 12:02	24°♄56'09	
	2128 Dec 31 04:32	30°♄		inferior conj	2129 Dec 11 05:15	19°♄09'32	1°33'35
morning rise	2129 Jan 01 01:31	29°♄09'38		minimum elong	2129 Dec 11 03:17	19°♄16'20	1°32'49
direct	2129 Jan 06 09:09	26°♄49'52		min. Earth dist.	2129 Dec 11 03:44	19°♄14'47	0.67836 AU
	2129 Jan 13 13:11	0°♄		morning rise	2129 Dec 16 09:39	12°♄58'42	
morning max el	2129 Jan 17 02:13	3°♄12'54	23°46'58	direct	2129 Dec 21 02:17	11°♄01'28	
desc. node	2129 Jan 26 20:08	14°♄49'19		morning max el	2129 Dec 30 13:18	16°♄36'01	22°19'01
	2129 Feb 06 13:09	0°♄			2130 Jan 10 12:13	0°♄	
morning set	2129 Feb 21 13:36	24°♄02'11		desc. node	2130 Jan 13 17:13	4°♄28'01	
	2129 Feb 25 00:05	0°♄			2130 Jan 30 15:07	0°♄	
max. Earth dist.	2129 Feb 25 10:30	0°♄46'02	1.38622 AU	morning set	2130 Feb 01 23:50	3°♄48'26	
				max. Earth dist.	2130 Feb 07 07:27	12°♄36'37	1.40778 AU
superior conj	2129 Mar 04 19:16	14°♄14'19	-1°45'45				
minimum elong	2129 Mar 04 23:31	14°♄34'25	1°45'19	superior conj	2130 Feb 15 02:36	26°♄10'09	-2°01'12
	2129 Mar 12 22:58	0°♄		minimum elong	2130 Feb 15 05:20	26°♄22'25	2°01'04
evening rise	2129 Mar 13 21:07	1°♄48'14			2130 Feb 17 05:34	0°♄	
asc. node	2129 Mar 17 14:21	8°♄58'26		evening rise	2130 Feb 25 07:31	14°♄59'34	
evening max el	2129 Mar 30 06:47	28°♄17'28	18°49'35	asc. node	2130 Mar 04 11:22	28°♄05'35	
	2129 Apr 01 06:45	0°♄			2130 Mar 05 14:09	0°♄	

evening max el	2130 Mar 13 13:13	10°♈57'02	18°18'33	retrograde	2131 Mar 03 14:53	27°♋23'41	
retrograde	2130 Mar 20 17:24	14°♈31'14		evening set	2131 Mar 06 07:53	26°♋49'20	
evening set	2130 Mar 23 05:01	14°♈06'33		inferior conj	2131 Mar 12 20:26	21°♋48'36	3°34'06
inferior conj	2130 Mar 30 08:22	9°♈26'34	3°00'57	minimum elong	2131 Mar 12 22:10	21°♋44'20	3°33'56
minimum elong	2130 Mar 30 11:54	9°♈19'01	3°00'14	min. Earth dist.	2131 Mar 15 22:54	18°♋46'54	0.61403 AU
min. Earth dist.	2130 Apr 02 18:37	6°♈32'49	0.59255 AU	morning rise	2131 Mar 19 10:48	15°♋54'14	
morning rise	2130 Apr 06 16:15	3°♈50'06		direct	2131 Mar 26 06:38	13°♋32'47	
desc. node	2130 Apr 11 16:22	2°♈07'02		desc. node	2131 Mar 29 13:25	14°♋02'55	
direct	2130 Apr 12 23:52	2°♈02'24		morning max el	2131 Apr 09 11:07	21°♋27'33	27°47'21
morning max el	2130 Apr 27 08:19	9°♈48'10	27°14'35		2131 Apr 16 21:51	0°♈	
	2130 May 12 20:42	0°♈			2131 May 05 21:06	0°♈	
morning set	2130 May 28 04:00	28°♉12'00		morning set	2131 May 12 08:47	12°♉42'21	
	2130 May 29 00:35	0°♉		asc. node	2131 May 18 07:45	25°♉19'36	
asc. node	2130 May 31 10:41	5°♉10'27		max. Earth dist.	2131 May 18 07:40	25°♉19'11	1.32356 AU
superior conj	2130 Jun 04 06:29	13°♉32'25	0°39'27	superior conj	2131 May 19 17:07	28°♉21'30	0°14'39
minimum elong	2130 Jun 04 04:50	13°♉23'20	0°39'08	minimum elong	2131 May 19 16:27	28°♉17'49	0°14'31
max. Earth dist.	2130 Jun 03 20:57	12°♉39'59	1.32167 AU	behind sun begin	2131 May 19 14:23	28°♉06'31	
evening rise	2130 Jun 11 03:10	28°♉27'30		behind sun end	2131 May 19 18:31	28°♉29'07	
	2130 Jun 11 20:45	0°♊			2131 May 20 11:08	0°♉	
	2130 Jun 28 14:33	0°♊		evening rise	2131 May 26 14:28	13°♉19'30	
desc. node	2130 Jul 08 15:42	12°♊30'45			2131 Jun 04 00:09	0°♊	
evening max el	2130 Jul 09 19:17	13°♊38'28	26°09'47	evening max el	2131 Jun 21 11:33	24°♊34'00	24°48'41
retrograde	2130 Jul 23 19:01	20°♊49'01		desc. node	2131 Jun 25 12:41	27°♊58'11	
evening set	2130 Jul 30 04:36	19°♊09'09			2131 Jun 28 21:05	0°♊	
min. Earth dist.	2130 Aug 03 07:58	16°♊32'59	0.59163 AU	retrograde	2131 Jul 05 10:26	1°♊38'30	
inferior conj	2130 Aug 06 15:14	14°♊03'22	-4°53'30	evening set	2131 Jul 10 14:53	0°♊37'25	
minimum elong	2130 Aug 06 17:53	13°♊58'20	4°53'18		2131 Jul 12 01:48	30°♋♊	
morning rise	2130 Aug 14 09:20	9°♊33'59		min. Earth dist.	2131 Jul 15 22:51	27°♊48'30	0.57202 AU
direct	2130 Aug 16 20:36	9°♊13'10		inferior conj	2131 Jul 18 20:55	25°♊53'31	-4°55'34
morning max el	2130 Aug 24 18:05	13°♊00'35	18°27'16	minimum elong	2131 Jul 18 18:41	25°♊57'13	4°55'25
asc. node	2130 Aug 27 09:54	15°♊55'59		morning rise	2131 Jul 27 01:11	21°♊45'59	
	2130 Sep 05 06:25	0°♋		direct	2131 Jul 29 15:41	21°♊26'46	
morning set	2130 Sep 09 20:11	8°♋38'32		morning max el	2131 Aug 07 18:24	25°♊42'04	19°16'12
					2131 Aug 11 14:23	0°♊	
superior conj	2130 Sep 18 20:26	25°♋46'22	1°33'21	asc. node	2131 Aug 14 06:59	3°♊48'31	
minimum elong	2130 Sep 18 23:35	26°♋00'58	1°33'06	morning set	2131 Aug 24 19:43	22°♊56'58	
	2130 Sep 21 03:46	0°♌			2131 Aug 28 08:24	0°♋	
max. Earth dist.	2130 Sep 26 06:56	9°♌05'55	1.40267 AU	superior conj	2131 Sep 01 23:52	9°♋10'23	1°43'43
evening rise	2130 Sep 30 15:37	16°♌29'48		minimum elong	2131 Sep 02 01:08	9°♋16'32	1°43'41
desc. node	2130 Oct 04 15:04	22°♌59'34		max. Earth dist.	2131 Sep 08 10:33	21°♋20'01	1.38207 AU
	2130 Oct 09 01:52	0°♍		evening rise	2131 Sep 12 05:14	28°♋05'23	
	2130 Oct 30 15:23	0°♌			2131 Sep 13 07:34	0°♌	
evening max el	2130 Nov 04 09:06	5°♌12'33	23°37'40	desc. node	2131 Sep 21 12:04	13°♌33'35	
retrograde	2130 Nov 15 01:12	11°♌30'37			2131 Oct 02 12:23	0°♍	
evening set	2130 Nov 20 03:02	9°♌24'09		evening max el	2131 Oct 17 21:18	18°♍50'29	24°55'35
asc. node	2130 Nov 23 09:06	5°♌52'46		retrograde	2131 Oct 29 14:23	25°♍38'45	
min. Earth dist.	2130 Nov 25 00:23	3°♌42'07	0.67769 AU	evening set	2131 Nov 04 06:16	23°♍16'11	
inferior conj	2130 Nov 25 12:34	3°♌00'31	0°43'52	min. Earth dist.	2131 Nov 08 19:22	18°♍08'09	0.67371 AU
minimum elong	2130 Nov 25 11:33	3°♌03'59	0°43'25	inferior conj	2131 Nov 09 18:10	16°♍53'00	-0°10'21
	2130 Nov 27 19:18	30°♍♍		minimum elong	2131 Nov 09 18:25	16°♍52'09	0°10'14
morning rise	2130 Nov 30 20:03	26°♍53'49		transit middle	2131 Nov 09 18:25	16°♍52'09	0°10'14
direct	2130 Dec 04 22:28	25°♍19'24		transit begin	2131 Nov 09 16:17	16°♍59'13	
	2130 Dec 13 02:48	0°♎		transit end	2131 Nov 09 20:34	16°♍45'05	
morning max el	2130 Dec 13 06:32	0°♎09'19	20°57'55	asc. node	2131 Nov 10 06:10	16°♍13'32	
desc. node	2130 Dec 31 14:17	24°♎31'29		morning rise	2131 Nov 15 06:44	10°♍52'43	
	2131 Jan 04 06:04	0°♏		direct	2131 Nov 18 20:35	9°♍38'57	
morning set	2131 Jan 12 07:03	12°♏21'11		morning max el	2131 Nov 26 07:29	13°♍53'14	19°48'42
max. Earth dist.	2131 Jan 20 11:17	25°♏23'32	1.42714 AU		2131 Dec 08 14:51	0°♎	
	2131 Jan 23 06:39	0°♏		desc. node	2131 Dec 18 11:20	14°♎52'12	
superior conj	2131 Jan 27 11:13	7°♏01'16	-2°04'38	morning set	2131 Dec 22 03:04	20°♎29'50	
minimum elong	2131 Jan 27 09:52	6°♏55'33	2°04'37		2131 Dec 28 05:47	0°♏	
evening rise	2131 Feb 08 03:36	27°♏28'26		max. Earth dist.	2132 Jan 02 22:10	8°♏57'48	1.44184 AU
	2131 Feb 09 13:29	0°♐		superior conj	2132 Jan 07 17:28	16°♏40'17	-1°51'08
asc. node	2131 Feb 19 08:25	16°♐42'38		minimum elong	2132 Jan 07 10:39	16°♏12'42	1°50'42
evening max el	2131 Feb 25 00:16	23°♐59'35	18°07'18				

	2132 Jan 15 19:49	0°♊		superior conj	2132 Dec 17 01:26	25°♊22'42	-1°18'40
evening rise	2132 Jan 21 04:53	9°♊05'02		minimum elong	2132 Dec 16 16:43	24°♊48'23	1°17'42
	2132 Feb 02 20:32	0°♋			2132 Dec 19 23:44	0°♋	
asc. node	2132 Feb 06 05:28	4°♋39'18		evening rise	2133 Jan 01 07:38	19°♋44'20	
evening max el	2132 Feb 08 12:53	7°♋16'21	18°15'16		2133 Jan 07 15:23	0°♋	
retrograde	2132 Feb 14 23:52	10°♋43'48		evening max el	2133 Jan 22 00:26	20°♋41'33	18°41'33
evening set	2132 Feb 17 22:04	9°♋58'42		asc. node	2133 Jan 23 02:29	21°♋44'01	
inferior conj	2132 Feb 23 23:36	4°♋38'28	3°43'03	retrograde	2133 Jan 28 16:14	24°♋23'58	
minimum elong	2132 Feb 23 23:25	4°♋38'59	3°43'03	evening set	2133 Jan 31 20:14	23°♋27'05	
min. Earth dist.	2132 Feb 26 12:16	1°♋51'29	0.63403 AU	inferior conj	2133 Feb 06 13:59	17°♋48'59	3°34'10
	2132 Feb 28 08:21	30°♌		minimum elong	2133 Feb 06 12:23	17°♋53'52	3°34'00
morning rise	2132 Feb 29 23:52	28°♌34'05		min. Earth dist.	2133 Feb 08 11:04	15°♌32'33	0.65080 AU
direct	2132 Mar 07 22:20	25°♌49'59		morning rise	2133 Feb 12 04:06	11°♌39'18	
desc. node	2132 Mar 15 10:28	28°♌27'42		direct	2133 Feb 18 21:10	8°♌47'22	
	2132 Mar 17 13:49	0°♍		desc. node	2133 Mar 02 07:31	14°♌46'31	
morning max el	2132 Mar 21 18:37	3°♍45'58	27°42'42	morning max el	2133 Mar 04 04:09	16°♌33'55	27°04'13
	2132 Apr 10 10:06	0°♎			2133 Mar 15 07:50	0°♍	
morning set	2132 Apr 25 07:01	26°♎49'39			2133 Apr 03 05:41	0°♎	
	2132 Apr 26 20:46	0°♏		morning set	2133 Apr 08 19:43	10°♎24'45	
max. Earth dist.	2132 Apr 30 12:38	7°♏36'19	1.32956 AU	max. Earth dist.	2133 Apr 13 08:12	19°♎22'10	1.34003 AU
superior conj	2132 May 03 00:50	12°♏57'23	-0°12'15	superior conj	2133 Apr 17 03:36	27°♎14'05	-0°40'13
minimum elong	2132 May 03 01:26	13°♏00'37	0°12'07	minimum elong	2133 Apr 17 05:38	27°♎24'45	0°39'49
behind sun begin	2132 May 02 21:58	12°♏42'01			2133 Apr 18 11:09	0°♏	
behind sun end	2132 May 03 04:53	13°♏19'13		asc. node	2133 Apr 21 01:48	5°♏31'48	
asc. node	2132 May 04 04:47	15°♏27'58		evening rise	2133 Apr 24 12:42	12°♏49'11	
evening rise	2132 May 10 02:15	28°♏08'39			2133 May 03 09:02	0°♐	
	2132 May 10 23:25	0°♑		evening max el	2133 May 14 19:46	15°♐40'16	21°39'56
	2132 May 28 11:32	0°♒		retrograde	2133 May 27 04:55	21°♐44'45	
evening max el	2132 Jun 02 01:13	5°♒04'06	23°13'41	desc. node	2133 May 29 06:42	21°♐35'00	
desc. node	2132 Jun 11 09:41	11°♒09'24		evening set	2133 May 29 16:59	21°♐30'38	
retrograde	2132 Jun 15 13:28	11°♒48'45		inferior conj	2133 Jun 08 02:48	17°♐29'00	-2°45'56
evening set	2132 Jun 19 05:40	11°♒19'08		minimum elong	2133 Jun 07 19:35	17°♐39'06	2°43'39
min. Earth dist.	2132 Jun 26 10:55	8°♒03'01	0.55683 AU	min. Earth dist.	2133 Jun 07 22:42	17°♐34'45	0.54940 AU
inferior conj	2132 Jun 28 06:47	6°♒58'41	-4°14'35	morning rise	2133 Jun 16 23:09	13°♐33'49	
minimum elong	2132 Jun 27 23:41	7°♒09'09	4°13'09	direct	2133 Jun 20 03:11	13°♐11'48	
morning rise	2132 Jul 06 20:13	3°♒04'58		morning max el	2133 Jul 02 09:45	18°♐58'47	21°55'28
direct	2132 Jul 09 15:36	2°♒45'56			2133 Jul 11 08:05	0°♑	
morning max el	2132 Jul 20 07:49	7°♒42'40	20°26'25	asc. node	2133 Jul 18 01:04	11°♑33'01	
asc. node	2132 Jul 31 04:02	22°♑24'28		morning set	2133 Jul 23 10:48	22°♑22'44	
	2132 Aug 04 06:35	0°♒			2133 Jul 27 01:34	0°♒	
morning set	2132 Aug 08 01:21	7°♒33'54					
				superior conj	2133 Jul 30 16:39	7°♒40'20	1°39'49
superior conj	2132 Aug 15 15:54	23°♒12'20	1°45'19	minimum elong	2133 Jul 30 15:02	7°♒31'50	1°39'42
minimum elong	2132 Aug 15 15:29	23°♒10'11	1°45'19	max. Earth dist.	2133 Aug 03 06:58	15°♒07'07	1.34681 AU
	2132 Aug 19 01:27	0°♓		evening rise	2133 Aug 07 19:44	24°♒06'40	
max. Earth dist.	2132 Aug 20 16:49	3°♓11'52	1.36286 AU		2133 Aug 10 22:31	0°♓	
evening rise	2132 Aug 24 16:09	10°♓41'59		desc. node	2133 Aug 25 06:04	23°♓54'59	
	2132 Sep 04 21:33	0°♔			2133 Aug 29 11:03	0°♔	
desc. node	2132 Sep 07 09:04	3°♔54'22		evening max el	2133 Sep 11 21:44	16°♔05'57	26°55'53
	2132 Sep 26 22:17	0°♕		retrograde	2133 Sep 25 01:36	23°♔22'15	
evening max el	2132 Sep 29 09:20	2°♕30'47	26°04'14	evening set	2133 Oct 01 19:57	20°♔39'25	
retrograde	2132 Oct 11 22:45	9°♕38'25		min. Earth dist.	2133 Oct 05 18:44	16°♔43'29	0.65556 AU
evening set	2132 Oct 18 04:38	7°♕02'53		inferior conj	2133 Oct 07 16:37	14°♔30'55	-2°06'18
min. Earth dist.	2132 Oct 22 10:19	2°♕30'25	0.66637 AU	minimum elong	2133 Oct 07 20:00	14°♔21'07	2°04'58
inferior conj	2132 Oct 23 20:12	0°♕44'45	-1°07'37	morning rise	2133 Oct 13 20:44	8°♔51'59	
minimum elong	2132 Oct 23 21:59	0°♕39'12	1°06'51	asc. node	2133 Oct 14 00:15	8°♔47'38	
	2132 Oct 24 10:37	30°♖		direct	2133 Oct 16 15:59	8°♔08'56	
asc. node	2132 Oct 27 03:13	26°♖56'06		morning max el	2133 Oct 23 05:05	11°♔41'56	18°16'23
morning rise	2132 Oct 29 15:43	24°♖53'32			2133 Nov 05 02:17	0°♗	
direct	2132 Nov 01 19:06	23°♖57'02		morning set	2133 Nov 11 03:48	9°♗52'25	
morning max el	2132 Nov 08 15:40	27°♖45'52	18°54'24	desc. node	2133 Nov 21 05:22	26°♗06'55	
	2132 Nov 10 16:34	0°♘			2133 Nov 23 16:01	0°♘	
morning set	2132 Nov 30 13:19	29°♘28'08					
	2132 Nov 30 21:26	0°♙		superior conj	2133 Nov 26 03:21	3°♙54'36	-0°32'36
desc. node	2132 Dec 04 08:21	5°♙25'31		minimum elong	2133 Nov 25 23:08	3°♙38'00	0°32'02
max. Earth dist.	2132 Dec 15 14:33	23°♙05'26	1.45015 AU	max. Earth dist.	2133 Nov 28 09:47	7°♙28'57	1.45112 AU

evening rise	2133 Dec 12 11:22	29° ♄ 29'00		superior conj	2134 Nov 05 20:24	13° ♄ 14'43	0°15'13
	2133 Dec 12 19:18	0° ♄		minimum elong	2134 Nov 05 22:06	13° ♄ 21'39	0°14'58
greatest brilliancy	2133 Dec 24 00:07	17° ♄ 23'07	-0.7m	behind sun begin	2134 Nov 05 18:15	13° ♄ 05'58	
	2134 Jan 01 18:54	0° ♄		behind sun end	2134 Nov 06 01:58	13° ♄ 37'19	
evening max el	2134 Jan 05 08:38	4° ♄ 10'28	19°24'53	desc. node	2134 Nov 08 02:24	16° ♄ 53'01	
asc. node	2134 Jan 09 23:31	7° ♄ 42'36		max. Earth dist.	2134 Nov 11 04:23	21° ♄ 48'47	1.44470 AU
retrograde	2134 Jan 12 12:41	8° ♄ 17'59			2134 Nov 16 09:07	0° ♄	
evening set	2134 Jan 15 23:38	7° ♄ 08'05		evening rise	2134 Nov 21 22:45	8° ♄ 37'49	
inferior conj	2134 Jan 21 12:16	1° ♄ 14'17	3°12'06		2134 Dec 06 02:21	0° ♄	
minimum elong	2134 Jan 21 09:52	1° ♄ 22'05	3°11'36	evening max el	2134 Dec 19 11:52	17° ♄ 40'30	20°23'14
	2134 Jan 22 11:08	30° ♄		retrograde	2134 Dec 27 10:38	22° ♄ 21'17	
min. Earth dist.	2134 Jan 22 18:24	29° ♄ 36'32	0.66355 AU	asc. node	2134 Dec 27 20:33	22° ♄ 20'20	
morning rise	2134 Jan 26 19:52	25° ♄ 01'55		evening set	2134 Dec 31 06:06	20° ♄ 57'06	
direct	2134 Feb 02 01:58	22° ♄ 15'37		inferior conj	2135 Jan 05 15:45	14° ♄ 50'20	2°39'55
morning max el	2134 Feb 14 13:34	29° ♄ 39'56	25°59'24	minimum elong	2135 Jan 05 13:08	14° ♄ 59'13	2°39'10
	2134 Feb 14 21:28	0° ♄		min. Earth dist.	2135 Jan 06 08:29	13° ♄ 53'38	0.67222 AU
desc. node	2134 Feb 17 04:33	2° ♄ 27'23		morning rise	2135 Jan 10 20:00	8° ♄ 37'03	
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morning set	2134 Mar 22 18:51	23° ♄ 15'48		morning max el	2135 Jan 27 22:10	12° ♄ 54'49	24°37'39
	2134 Mar 26 08:33	0° ♄		desc. node	2135 Feb 04 01:36	21° ♄ 06'27	
max. Earth dist.	2134 Mar 26 16:26	0° ♄ 37'56	1.35505 AU		2135 Feb 10 17:29	0° ♄	
					2135 Mar 02 00:15	0° ♄	
superior conj	2134 Mar 31 22:57	11° ♄ 04'17	-1°07'53	morning set	2135 Mar 04 23:03	5° ♄ 07'04	
minimum elong	2134 Apr 01 02:21	11° ♄ 21'32	1°07'18	max. Earth dist.	2135 Mar 08 14:51	11° ♄ 40'36	1.37410 AU
asc. node	2134 Apr 07 22:49	25° ♄ 26'59					
evening rise	2134 Apr 08 19:51	27° ♄ 14'50		superior conj	2135 Mar 15 07:40	24° ♄ 18'23	-1°33'16
	2134 Apr 10 04:17	0° ♄		minimum elong	2135 Mar 15 11:56	24° ♄ 39'06	1°32'43
evening max el	2134 Apr 27 00:47	26° ♄ 47'41	20°18'58		2135 Mar 18 05:21	0° ♄	
	2134 May 01 02:17	0° ♄		evening rise	2135 Mar 23 21:17	11° ♄ 17'43	
retrograde	2134 May 07 18:26	2° ♄ 00'01		asc. node	2135 Mar 25 19:51	15° ♄ 08'06	
evening set	2134 May 09 19:23	1° ♄ 49'33			2135 Apr 03 01:26	0° ♄	
	2134 May 15 01:09	30° ♄		evening max el	2135 Apr 09 17:25	8° ♄ 34'18	19°16'24
desc. node	2134 May 16 03:44	29° ♄ 25'35		retrograde	2135 Apr 18 18:49	12° ♄ 57'25	
inferior conj	2134 May 18 21:59	27° ♄ 51'18	-0°48'24	evening set	2135 Apr 20 21:02	12° ♄ 44'23	
minimum elong	2134 May 18 19:43	27° ♄ 54'38	0°47'33	inferior conj	2135 Apr 29 06:09	8° ♄ 35'06	1°04'12
min. Earth dist.	2134 May 20 11:27	26° ♄ 56'23	0.55147 AU	minimum elong	2135 Apr 29 08:41	8° ♄ 30'52	1°03'20
morning rise	2134 May 27 18:43	23° ♄ 35'29		min. Earth dist.	2135 May 02 02:18	6° ♄ 42'05	0.56264 AU
direct	2134 May 31 14:43	23° ♄ 03'42		desc. node	2135 May 03 00:46	6° ♄ 06'43	
morning max el	2134 Jun 14 03:09	29° ♄ 39'37	23°36'14	morning rise	2135 May 07 17:24	3° ♄ 45'25	
	2134 Jun 14 11:43	0° ♄		direct	2135 May 12 12:53	2° ♄ 52'07	
	2134 Jul 04 08:56	0° ♄		morning max el	2135 May 26 17:37	10° ♄ 06'23	25°16'07
asc. node	2134 Jul 04 22:06	1° ♄ 05'59			2135 Jun 10 17:57	0° ♄	
morning set	2134 Jul 07 22:16	7° ♄ 18'16		asc. node	2135 Jun 21 19:08	20° ♄ 55'48	
				morning set	2135 Jun 22 10:03	22° ♄ 14'12	
superior conj	2134 Jul 14 23:15	22° ♄ 25'53	1°28'31		2135 Jun 26 00:44	0° ♄	
minimum elong	2134 Jul 14 20:59	22° ♄ 13'41	1°28'16				
max. Earth dist.	2134 Jul 17 06:32	27° ♄ 21'26	1.33468 AU	superior conj	2135 Jun 29 09:20	7° ♄ 20'39	1°12'29
	2134 Jul 18 12:36	0° ♄		minimum elong	2135 Jun 29 06:57	7° ♄ 07'36	1°12'07
evening rise	2134 Jul 22 11:40	8° ♄ 07'45		max. Earth dist.	2135 Jun 30 13:31	9° ♄ 54'25	1.32655 AU
	2134 Aug 03 09:50	0° ♄		evening rise	2135 Jul 06 12:20	22° ♄ 33'48	
desc. node	2134 Aug 12 03:04	13° ♄ 26'50			2135 Jul 10 05:18	0° ♄	
evening max el	2134 Aug 25 09:22	29° ♄ 24'34	27°23'13		2135 Jul 28 06:56	0° ♄	
	2134 Aug 26 00:29	0° ♄		desc. node	2135 Jul 30 00:06	2° ♄ 17'24	
retrograde	2134 Sep 07 22:29	6° ♄ 42'26		evening max el	2135 Aug 07 17:58	12° ♄ 13'10	27°20'31
evening set	2134 Sep 15 01:31	4° ♄ 01'05		retrograde	2135 Aug 21 13:04	19° ♄ 29'26	
min. Earth dist.	2134 Sep 18 18:24	0° ♄ 40'05	0.64123 AU	evening set	2135 Aug 28 17:46	17° ♄ 01'42	
	2134 Sep 19 09:55	30° ♄		min. Earth dist.	2135 Sep 01 07:51	14° ♄ 09'03	0.62352 AU
inferior conj	2134 Sep 21 04:59	28° ♄ 06'21	-3°03'56	inferior conj	2135 Sep 04 06:25	11° ♄ 24'00	-3°56'44
minimum elong	2134 Sep 21 09:46	27° ♄ 53'47	3°02'20	minimum elong	2135 Sep 04 11:49	11° ♄ 11'20	3°55'23
morning rise	2134 Sep 27 19:05	22° ♄ 43'07		morning rise	2135 Sep 11 07:22	6° ♄ 19'51	
direct	2134 Sep 30 08:38	22° ♄ 10'00		direct	2135 Sep 13 17:47	5° ♄ 53'31	
asc. node	2134 Sep 30 21:18	22° ♄ 11'25		asc. node	2135 Sep 17 18:21	7° ♄ 07'37	
morning max el	2134 Oct 06 21:06	25° ♄ 35'52	17°55'31	morning max el	2135 Sep 20 12:48	9° ♄ 20'42	17°52'38
	2134 Oct 10 13:42	0° ♄			2135 Oct 04 02:51	0° ♄	
morning set	2134 Oct 23 21:57	21° ♄ 37'16		morning set	2135 Oct 06 13:52	4° ♄ 24'16	
	2134 Oct 28 20:20	0° ♄					
				superior conj	2135 Oct 17 15:48	23° ♄ 53'11	0°54'51
































































































































minimum elong	2135 Oct 17 20:13	24°  11'56	0°54'17	superior conj	2136 Sep 28 13:03	5°  47'13	1°22'40
	2135 Oct 21 07:00	0°  11		minimum elong	2136 Sep 28 17:06	6°  05'28	1°22'16
max. Earth dist.	2135 Oct 24 19:00	5°  45'21	1.43177 AU	max. Earth dist.	2136 Oct 06 04:09	19°  04'21	1.41407 AU
desc. node	2135 Oct 25 23:27	7°  40'36		evening rise	2136 Oct 11 09:13	27°  40'30	
evening rise	2135 Nov 01 08:37	17°  47'58		desc. node	2136 Oct 11 20:28	28°  42'54	
	2135 Nov 09 08:01	0°  17			2136 Oct 12 19:55	0°  11	
	2135 Dec 01 06:19	0°  08			2136 Nov 02 00:28	0°  17	
evening max el	2135 Dec 02 09:26	1°  31'12	21°33'36	evening max el	2136 Nov 14 02:00	14°  44'17	22°51'42
retrograde	2135 Dec 11 07:59	6°  30'37		retrograde	2136 Nov 24 03:02	20°  42'00	
asc. node	2135 Dec 14 17:35	5°  26'56		evening set	2136 Nov 28 21:01	18°  45'35	
evening set	2135 Dec 15 13:48	4°  30'49		asc. node	2136 Nov 30 14:39	17°  40'13	
	2135 Dec 19 21:23	30°  17		inferior conj	2136 Dec 04 05:46	12°  23'31	1°13'08
inferior conj	2135 Dec 20 22:14	28°  34'31	1°59'46	minimum elong	2136 Dec 04 04:09	12°  29'04	1°12'29
minimum elong	2135 Dec 20 19:55	28°  42'35	1°58'56	min. Earth dist.	2136 Dec 03 23:43	12°  44'23	0.67840 AU
min. Earth dist.	2135 Dec 21 03:05	28°  17'45	0.67707 AU	morning rise	2136 Dec 09 11:10	6°  13'55	
morning rise	2135 Dec 26 01:52	22°  22'03		direct	2136 Dec 13 21:36	4°  26'24	
direct	2135 Dec 31 02:57	20°  11'48		morning max el	2136 Dec 22 20:39	9°  41'37	21°43'19
morning max el	2136 Jan 10 07:26	26°  14'58	23°09'15	desc. node	2137 Jan 07 19:42	0°  31'28	
	2136 Jan 13 18:04	0°  08			2137 Jan 07 14:52	0°  08	
desc. node	2136 Jan 21 22:40	10°  32'16		morning set	2137 Jan 23 24:00	24°  54'57	
	2136 Feb 04 07:24	0°  00			2137 Jan 27 03:48	0°  00	
morning set	2136 Feb 14 02:09	15°  43'08		max. Earth dist.	2137 Jan 30 08:42	5°  15'46	1.41642 AU
max. Earth dist.	2136 Feb 18 09:46	23°  03'45	1.39544 AU				
	2136 Feb 22 08:18	0°  18		superior conj	2137 Feb 07 00:01	18°  16'36	-2°04'25
superior conj	2136 Feb 26 01:44	6°  18'42	-1°53'27	minimum elong	2137 Feb 07 01:21	18°  22'24	2°04'24
minimum elong	2136 Feb 26 05:37	7°  04'41	1°53'09		2137 Feb 13 13:32	0°  18	
evening rise	2136 Mar 06 14:12	24°  15'04		evening rise	2137 Feb 17 18:59	7°  18'59	
	2136 Mar 09 07:00	0°  00		asc. node	2137 Feb 26 13:57	23°  25'35	
asc. node	2136 Mar 11 16:55	4°  29'58			2137 Mar 02 22:21	0°  00	
evening max el	2136 Mar 22 19:47	20°  57'30	18°33'52	evening max el	2137 Mar 06 04:38	3°  48'30	18°11'24
retrograde	2136 Mar 30 13:09	24°  44'44		retrograde	2137 Mar 13 01:37	7°  16'14	
evening set	2136 Apr 01 21:12	24°  45'08		evening set	2137 Mar 15 15:38	6°  47'35	
inferior conj	2136 Apr 09 10:49	19°  57'27	2°28'03	inferior conj	2137 Mar 22 12:15	1°  59'00	3°18'22
minimum elong	2136 Apr 09 14:49	19°  49'40	2°27'00	minimum elong	2137 Mar 22 15:07	1°  52'31	3°17'55
min. Earth dist.	2136 Apr 12 20:42	17°  19'14	0.58058 AU		2137 Mar 24 16:34	30°  17	
morning rise	2136 Apr 17 05:22	14°  35'15		min. Earth dist.	2137 Mar 25 20:29	28°  58'37	0.60179 AU
desc. node	2136 Apr 18 21:48	13°  52'46		morning rise	2137 Mar 29 12:25	26°  13'56	
direct	2136 Apr 23 01:34	13°  08'33		direct	2137 Apr 05 02:42	24°  10'36	
morning max el	2136 May 07 10:45	20°  46'49	26°39'23	desc. node	2137 Apr 05 18:51	24°  11'51	
	2136 May 15 09:56	0°  08			2137 Apr 17 05:40	0°  00	
	2136 Jun 02 09:36	0°  12		morning max el	2137 Apr 19 09:39	2°  01'13	27°32'56
morning set	2136 Jun 05 20:32	7°  05'06			2137 May 09 17:16	0°  08	
asc. node	2136 Jun 07 16:12	10°  15'58		morning set	2137 May 21 03:58	21°  08'45	01
					2137 May 25 01:18	0°  12	
superior conj	2136 Jun 12 21:01	22°  18'12	0°52'29	asc. node	2137 May 25 13:16	1°  12'04	43
minimum elong	2136 Jun 12 18:59	22°  16'58	0°52'06	max. Earth dist.	2137 May 27 12:49	5°  12'24	13
max. Earth dist.	2136 Jun 13 00:48	22°  19'02	1.32235 AU				
	2136 Jun 16 09:19	0°  00		superior conj	2137 May 28 08:33	7°  12'31	0°29'15
evening rise	2136 Jun 19 18:54	7°  16'10		minimum elong	2137 May 28 07:17	7°  12'05	30
	2136 Jul 01 17:23	0°  00		evening rise	2137 Jun 04 05:04	22°  12'07	12
desc. node	2136 Jul 15 21:07	20°  09'34			2137 Jun 08 00:43	0°  00	
evening max el	2136 Jul 19 21:12	24°  02'04	26°44'46		2137 Jun 26 11:53	0°  00	
	2136 Jul 27 14:57	0°  00		evening max el	2137 Jul 01 17:34	5°  02'42	37
retrograde	2136 Aug 02 20:13	1°  34'03		desc. node	2137 Jul 02 18:07	6°  02'39	30
	2136 Aug 08 20:52	30°  17		retrograde	2137 Jul 15 17:54	12°  02'51	09
evening set	2136 Aug 09 16:13	29°  03'34		evening set	2137 Jul 21 16:18	11°  02'28	11
min. Earth dist.	2136 Aug 13 11:05	26°  05'16	0.60345 AU	min. Earth dist.	2137 Jul 26 05:47	8°  02'48	26
inferior conj	2136 Aug 16 17:30	24°  01'52	-4°38'25	inferior conj	2137 Jul 29 10:48	6°  02'31	29
minimum elong	2136 Aug 16 21:52	24°  06'26	4°37'46	minimum elong	2137 Jul 29 11:37	6°  02'30	02
morning rise	2136 Aug 24 05:28	19°  03'25		morning rise	2137 Aug 06 09:16	2°  02'11	29
direct	2136 Aug 26 15:30	19°  02'44		direct	2137 Aug 08 21:37	1°  02'51	31
morning max el	2136 Sep 03 01:00	22°  04'14	18°08'49	morning max el	2137 Aug 17 06:30	5°  02'49	39
asc. node	2136 Sep 03 15:25	23°  02'41		asc. node	2137 Aug 21 12:29	10°  02'46	36
	2136 Sep 08 17:21	0° 00			2137 Sep 01 15:23	0° 00	
morning set	2136 Sep 18 21:31	17° 05'20		morning set	2137 Sep 02 16:20	2° 02'01	24
	2136 Sep 25 08:39	0° 00		superior conj	2137 Sep 11 07:06	18° 02'43	18

minimum elong	2137 Sep 11 09:28	18° \mathbb{M} 54'28	1°38'47	superior conj	2138 Aug 25 16:26	2° \mathbb{M} 25'05	1°45'22
	2137 Sep 17 10:11	0° \mathbb{M}		minimum elong	2138 Aug 25 16:56	2° \mathbb{M} 27'34	1°45'21
max. Earth dist.	2137 Sep 18 09:08	1° \mathbb{M} 42'01	1.39389 AU	max. Earth dist.	2138 Aug 31 13:34	13° \mathbb{M} 45'33	1.37366 AU
evening rise	2137 Sep 22 09:11	8° \mathbb{M} 38'24		evening rise	2138 Sep 04 08:23	20° \mathbb{M} 41'14	
desc. node	2137 Sep 28 17:29	19° \mathbb{M} 05'39			2138 Sep 09 17:06	0° \mathbb{M}	
	2137 Oct 05 18:51	0° \mathbb{M}		desc. node	2138 Sep 15 14:29	9° \mathbb{M} 34'51	
evening max el	2137 Oct 27 15:20	28° \mathbb{M} 21'01	24°11'34		2138 Sep 29 18:37	0° \mathbb{M}	
	2137 Oct 29 09:06	0° \mathbb{M}		evening max el	2138 Oct 10 03:22	12° \mathbb{M} 00'36	25°26'22
retrograde	2137 Nov 07 18:27	4° \mathbb{M} 52'36		retrograde	2138 Oct 22 05:28	18° \mathbb{M} 57'43	
evening set	2137 Nov 13 02:09	2° \mathbb{M} 39'17		evening set	2138 Oct 28 03:31	16° \mathbb{M} 29'04	
	2137 Nov 15 15:36	30° \mathbb{R} \mathbb{M}		min. Earth dist.	2138 Nov 01 13:24	11° \mathbb{M} 36'11	0.67106 AU
asc. node	2137 Nov 17 11:42	27° \mathbb{M} 39'10		inferior conj	2138 Nov 02 16:50	10° \mathbb{M} 07'44	-0°34'22
min. Earth dist.	2137 Nov 17 19:58	27° \mathbb{M} 11'27	0.67642 AU	minimum elong	2138 Nov 02 17:43	10° \mathbb{M} 04'54	0°33'58
inferior conj	2137 Nov 18 12:33	26° \mathbb{M} 15'32	0°21'20	asc. node	2138 Nov 04 08:44	8° \mathbb{M} 01'53	
minimum elong	2137 Nov 18 12:02	26° \mathbb{M} 17'16	0°21'07	morning rise	2138 Nov 08 08:09	4° \mathbb{M} 11'10	
morning rise	2137 Nov 23 21:56	20° \mathbb{M} 11'08		direct	2138 Nov 11 17:22	3° \mathbb{M} 05'06	
direct	2137 Nov 27 18:53	18° \mathbb{M} 45'37		morning max el	2138 Nov 18 21:09	7° \mathbb{M} 06'49	19°23'42
morning max el	2137 Dec 05 16:57	23° \mathbb{M} 18'52	20°26'45	greatest brilliancy	2138 Dec 02 11:41	25° \mathbb{M} 26'00	-0.7m
	2137 Dec 11 09:44	0° \mathbb{M}			2138 Dec 05 11:42	0° \mathbb{M}	
desc. node	2137 Dec 25 16:45	20° \mathbb{M} 28'58		morning set	2138 Dec 12 22:40	11° \mathbb{M} 30'08	
	2137 Dec 31 22:43	0° \mathbb{M}		desc. node	2138 Dec 12 13:46	10° \mathbb{M} 55'39	
morning set	2138 Jan 02 23:23	3° \mathbb{M} 07'53			2138 Dec 24 19:00	0° \mathbb{M}	
max. Earth dist.	2138 Jan 12 15:40	18° \mathbb{M} 24'29	1.43414 AU	max. Earth dist.	2138 Dec 26 05:46	2° \mathbb{M} 17'13	1.44622 AU
superior conj	2138 Jan 18 21:34	28° \mathbb{M} 37'07	-2°01'14	superior conj	2138 Dec 29 17:06	7° \mathbb{M} 48'01	-1°39'35
minimum elong	2138 Jan 18 17:51	28° \mathbb{M} 21'42	2°01'06	minimum elong	2138 Dec 29 08:41	7° \mathbb{M} 14'29	1°38'51
	2138 Jan 19 17:30	0° \mathbb{M}			2139 Jan 12 07:57	0° \mathbb{M}	
evening rise	2138 Jan 31 07:31	19° \mathbb{M} 51'57		evening rise	2139 Jan 12 23:32	1° \mathbb{M} 04'49	
	2138 Feb 06 02:53	0° \mathbb{M}		asc. node	2139 Jan 31 08:01	29° \mathbb{M} 23'08	
asc. node	2138 Feb 13 10:59	11° \mathbb{M} 46'46			2139 Jan 31 21:40	0° \mathbb{M}	
evening max el	2138 Feb 17 16:44	16° \mathbb{M} 58'15	18°08'25	evening max el	2139 Feb 01 05:10	0° \mathbb{M} 19'19	18°24'16
retrograde	2138 Feb 24 04:29	20° \mathbb{M} 21'53		retrograde	2139 Feb 07 17:12	3° \mathbb{M} 51'56	
evening set	2138 Feb 26 23:48	19° \mathbb{M} 42'54		evening set	2139 Feb 10 17:47	3° \mathbb{M} 01'50	
inferior conj	2138 Mar 05 07:12	14° \mathbb{M} 33'35	3°40'24		2139 Feb 14 10:47	30° \mathbb{R} \mathbb{M}	
minimum elong	2138 Mar 05 08:05	14° \mathbb{M} 31'18	3°40'22	inferior conj	2139 Feb 16 15:37	27° \mathbb{M} 33'28	3°41'10
min. Earth dist.	2138 Mar 08 04:12	11° \mathbb{M} 36'02	0.62290 AU	minimum elong	2139 Feb 16 14:45	27° \mathbb{M} 35'57	3°41'08
morning rise	2138 Mar 11 15:09	8° \mathbb{M} 34'32		min. Earth dist.	2139 Feb 18 21:33	24° \mathbb{M} 58'18	0.64156 AU
direct	2138 Mar 18 13:21	6° \mathbb{M} 01'54		morning rise	2139 Feb 22 11:05	21° \mathbb{M} 26'22	
desc. node	2138 Mar 23 15:54	7° \mathbb{M} 15'02		direct	2139 Mar 01 07:56	18° \mathbb{M} 37'32	
morning max el	2138 Apr 01 14:30	13° \mathbb{M} 57'16	27°49'51	desc. node	2139 Mar 10 12:56	22° \mathbb{M} 33'01	
	2138 Apr 14 12:43	0° \mathbb{M}		morning max el	2139 Mar 14 23:23	26° \mathbb{M} 30'35	27°30'16
	2138 May 02 04:31	0° \mathbb{M}			2139 Mar 18 05:40	0° \mathbb{M}	
morning set	2138 May 05 06:15	6° \mathbb{M} 06'37			2139 Apr 08 02:43	0° \mathbb{M}	
max. Earth dist.	2138 May 10 21:40	17° \mathbb{M} 56'16	1.32564 AU	morning set	2139 Apr 19 00:52	20° \mathbb{M} 02'05	
asc. node	2138 May 12 10:17	21° \mathbb{M} 14'09			2139 Apr 23 22:48	0° \mathbb{M}	
				max. Earth dist.	2139 Apr 23 23:24	0° \mathbb{M} 03'06	1.33349 AU
superior conj	2138 May 12 18:10	21° \mathbb{M} 56'59	0°03'29	superior conj	2139 Apr 27 00:03	6° \mathbb{M} 25'53	-0°24'02
minimum elong	2138 May 12 18:00	21° \mathbb{M} 56'05	0°03'26	minimum elong	2139 Apr 27 01:14	6° \mathbb{M} 32'16	0°23'47
behind sun begin	2138 May 12 12:56	21° \mathbb{M} 28'35		asc. node	2139 Apr 29 07:19	11° \mathbb{M} 21'32	
behind sun end	2138 May 12 23:04	22° \mathbb{M} 23'36		evening rise	2139 May 04 04:18	21° \mathbb{M} 46'15	
	2138 May 16 10:51	0° \mathbb{M}			2139 May 08 04:33	0° \mathbb{M}	
evening rise	2138 May 19 16:48	6° \mathbb{M} 59'18		evening max el	2139 May 25 22:45	26° \mathbb{M} 53'17	22°32'44
	2138 May 31 19:06	0° \mathbb{M}			2139 May 29 15:20	0° \mathbb{M}	
evening max el	2138 Jun 13 08:06	16° \mathbb{M} 24'46	24°09'03	desc. node	2139 Jun 06 12:08	3° \mathbb{M} 18'07	
desc. node	2138 Jun 19 15:08	21° \mathbb{M} 14'12		retrograde	2139 Jun 08 01:20	3° \mathbb{M} 23'37	
retrograde	2138 Jun 27 03:41	23° \mathbb{M} 22'17		evening set	2139 Jun 11 03:59	3° \mathbb{M} 02'18	
evening set	2138 Jul 01 17:02	22° \mathbb{M} 36'14			2139 Jun 18 09:37	30° \mathbb{R} \mathbb{M}	
min. Earth dist.	2138 Jul 07 18:51	19° \mathbb{M} 37'28	0.56487 AU	min. Earth dist.	2139 Jun 19 06:14	29° \mathbb{M} 31'05	0.55264 AU
inferior conj	2138 Jul 10 07:50	18° \mathbb{M} 02'45	-4°44'06	inferior conj	2139 Jun 20 10:36	28° \mathbb{M} 50'46	-3°42'17
minimum elong	2138 Jul 10 03:15	18° \mathbb{M} 09'56	4°43'33	minimum elong	2139 Jun 20 02:40	29° \mathbb{M} 02'04	3°40'15
morning rise	2138 Jul 18 16:07	14° \mathbb{M} 02'25		morning rise	2139 Jun 29 03:32	24° \mathbb{M} 59'10	
direct	2138 Jul 21 08:43	13° \mathbb{M} 43'21		direct	2139 Jul 02 01:58	24° \mathbb{M} 39'28	
morning max el	2138 Jul 31 02:19	18° \mathbb{M} 14'26	19°43'28	morning max el	2139 Jul 13 10:47	29° \mathbb{M} 56'16	21°02'17
asc. node	2138 Aug 08 09:32	28° \mathbb{M} 59'07			2139 Jul 13 12:23	0° \mathbb{M}	
	2138 Aug 09 00:20	0° \mathbb{M}		asc. node	2139 Jul 26 06:34	17° \mathbb{M} 50'02	
morning set	2138 Aug 17 18:48	16° \mathbb{M} 29'00			2139 Aug 01 12:19	0° \mathbb{M}	
	2138 Aug 24 11:17	0° \mathbb{M}					

morning set	2139 Aug 02 02:18	1°Ω11'52		morning set	2140 Jul 16 12:49	16°Ω04'09	
					2140 Jul 23 01:49	0°Ω	
superior conj	2139 Aug 09 12:37	16°Ω39'38	1°43'46	superior conj	2140 Jul 23 16:12	1°Ω16'25	1°35'40
minimum elong	2139 Aug 09 11:37	16°Ω34'31	1°43'44	minimum elong	2140 Jul 23 14:14	1°Ω06'01	1°35'30
max. Earth dist.	2139 Aug 13 22:46	25°Ω36'10	1.35561 AU	max. Earth dist.	2140 Jul 26 16:40	7°Ω37'10	1.34114 AU
	2139 Aug 16 04:50	0°Π		evening rise	2140 Jul 31 12:18	17°Ω21'19	
evening rise	2139 Aug 18 02:57	3°Π39'35			2140 Aug 07 06:25	0°Π	
desc. node	2139 Sep 02 11:29	29°Π47'56		desc. node	2140 Aug 19 08:29	19°Π37'44	
	2139 Sep 02 14:38	0°Ω			2140 Aug 26 22:52	0°Ω	
evening max el	2139 Sep 22 15:23	25°Ω38'56	26°28'36	evening max el	2140 Sep 04 03:31	9°Ω08'23	27°10'50
	2139 Sep 27 20:30	0°Π		retrograde	2140 Sep 17 12:13	16°Ω26'57	
retrograde	2139 Oct 05 11:31	2°Π51'38		evening set	2140 Sep 24 10:47	13°Ω43'20	
evening set	2139 Oct 11 23:10	0°Π11'45		min. Earth dist.	2140 Sep 28 06:45	10°Ω02'40	0.64984 AU
	2139 Oct 12 04:43	30°RΩ		inferior conj	2140 Sep 30 10:04	7°Ω39'55	-2°31'04
min. Earth dist.	2139 Oct 16 01:43	25°Ω55'07	0.66224 AU	minimum elong	2140 Sep 30 14:05	7°Ω28'41	2°29'35
inferior conj	2139 Oct 17 16:43	23°Ω57'11	-1°32'29	morning rise	2140 Oct 06 18:19	2°Ω07'21	
minimum elong	2139 Oct 17 19:11	23°Ω49'44	1°31'28	asc. node	2140 Oct 08 02:49	1°Ω38'33	
asc. node	2139 Oct 22 05:47	19°Ω08'47		direct	2140 Oct 09 10:42	1°Ω29'07	
morning rise	2139 Oct 23 15:45	18°Ω11'07		morning max el	2140 Oct 15 22:53	4°Ω58'23	18°05'21
direct	2139 Oct 26 15:20	17°Ω20'54			2140 Nov 01 17:17	0°Π	
morning max el	2139 Nov 02 07:56	21°Ω01'48	18°36'12	morning set	2140 Nov 02 23:04	2°Π03'48	
	2139 Nov 09 08:52	0°Π		desc. node	2140 Nov 15 07:49	22°Π16'43	
morning set	2139 Nov 22 20:10	21°Π03'03					
	2139 Nov 28 11:21	0°♂		superior conj	2140 Nov 17 02:01	25°Π05'15	-0°11'50
desc. node	2139 Nov 29 10:47	1°♂32'41		minimum elong	2140 Nov 17 00:33	24°Π59'21	0°11'38
				behind sun begin	2140 Nov 16 16:59	24°Π29'13	
superior conj	2139 Dec 08 19:45	16°♂17'56	-1°00'07	behind sun end	2140 Nov 17 08:06	25°Π29'27	
minimum elong	2139 Dec 08 12:20	15°♂48'48	0°59'12		2140 Nov 20 04:22	0°♂	
max. Earth dist.	2139 Dec 08 23:43	16°♂33'30	1.45140 AU	max. Earth dist.	2140 Nov 20 18:32	0°♂55'55	1.44921 AU
	2139 Dec 17 12:48	0°Ω		evening rise	2140 Dec 03 11:40	20°♂45'28	
evening rise	2139 Dec 24 16:13	11°Ω19'33			2140 Dec 09 11:30	0°Ω	
greatest brilliancy	2140 Jan 02 05:00	24°Ω54'06	-0.8m	greatest brilliancy	2140 Dec 16 21:13	11°Ω14'54	-0.7m
	2140 Jan 05 11:23	0°≈		evening max el	2140 Dec 28 21:40	27°Ω15'15	19°48'03
evening max el	2140 Jan 15 15:25	13°≈45'42	18°58'02		2141 Jan 01 01:03	0°≈	
asc. node	2140 Jan 18 05:03	16°≈01'13		asc. node	2141 Jan 04 02:05	1°≈27'04	
retrograde	2140 Jan 22 11:46	17°≈38'10		retrograde	2141 Jan 05 09:07	1°≈36'18	
evening set	2140 Jan 25 18:27	16°≈35'59		evening set	2141 Jan 08 23:24	0°≈20'42	
inferior conj	2140 Jan 31 09:43	10°≈50'46	3°26'15		2141 Jan 09 10:31	30°RΩ	
minimum elong	2140 Jan 31 07:42	10°≈57'07	3°25'56	inferior conj	2141 Jan 14 10:32	24°Ω21'10	2°59'33
min. Earth dist.	2140 Feb 02 00:17	8°≈50'07	0.65662 AU	minimum elong	2141 Jan 14 07:59	24°Ω29'40	2°58'56
morning rise	2140 Feb 05 20:36	4°≈39'25		min. Earth dist.	2141 Jan 15 10:52	23°Ω00'30	0.66772 AU
direct	2140 Feb 12 09:23	1°≈48'27		morning rise	2141 Jan 19 16:20	18°Ω08'01	
desc. node	2140 Feb 25 09:58	9°≈29'52		direct	2141 Jan 25 16:46	15°Ω26'59	
morning max el	2140 Feb 25 09:17	9°≈28'08	26°39'27	morning max el	2141 Feb 06 18:14	22°Ω38'20	25°25'59
	2140 Mar 12 13:07	0°♂		desc. node	2141 Feb 11 07:02	27°Ω37'47	
	2140 Mar 30 13:44	0°Υ			2141 Feb 13 06:01	0°≈	
morning set	2140 Apr 01 08:22	3°Υ20'05			2141 Mar 05 20:37	0°♂	
max. Earth dist.	2140 Apr 05 14:15	11°Υ35'05	1.34583 AU	morning set	2141 Mar 15 00:10	15°♂47'22	
				max. Earth dist.	2141 Mar 18 17:17	22°♂39'14	1.36269 AU
superior conj	2140 Apr 09 23:57	20°Υ31'49	-0°52'06		2141 Mar 22 13:04	0°Υ	
minimum elong	2140 Apr 10 02:36	20°Υ45'30	0°51'35				
	2140 Apr 14 12:42	0°♂		superior conj	2141 Mar 24 15:12	4°Υ07'23	-1°19'06
asc. node	2140 Apr 15 04:20	1°♂22'03		minimum elong	2141 Mar 24 19:04	4°Υ26'38	1°18'30
evening rise	2140 Apr 17 13:34	6°♂20'51		evening rise	2141 Apr 01 18:33	20°Υ36'57	
	2140 Apr 30 13:29	0°Π		asc. node	2141 Apr 02 01:23	21°Υ11'29	
evening max el	2140 May 06 21:12	7°Π40'08	21°03'29		2141 Apr 06 12:36	0°♂	
retrograde	2140 May 18 14:57	13°Π23'35		evening max el	2141 Apr 19 07:21	19°♂04'06	19°50'01
evening set	2140 May 20 19:53	13°Π12'11		retrograde	2141 Apr 29 07:17	23°♂53'55	
desc. node	2140 May 23 09:09	12°Π32'38		evening set	2141 May 01 07:44	23°♂42'58	
inferior conj	2140 May 30 04:26	9°Π13'50	-1°57'45	inferior conj	2141 May 10 03:41	19°♂41'54	0°01'50
minimum elong	2140 May 29 22:57	9°Π21'35	1°55'49	minimum elong	2141 May 10 03:46	19°♂41'47	0°01'48
min. Earth dist.	2140 May 30 18:33	8°Π53'52	0.54907 AU	transit middle	2141 May 10 03:46	19°♂41'47	0°01'48
morning rise	2140 Jun 08 01:59	5°Π11'52		transit begin	2141 May 09 23:50	19°♂47'50	
direct	2140 Jun 11 11:25	4°Π46'59		transit end	2141 May 10 07:42	19°♂35'43	
morning max el	2140 Jun 24 08:42	10°Π56'05	22°37'31	desc. node	2141 May 10 06:12	19°♂38'02	
	2140 Jul 08 07:30	0°Ω		min. Earth dist.	2141 May 12 08:21	18°♂21'07	0.55519 AU
asc. node	2140 Jul 12 03:36	7°Ω09'44					

morning rise	2141 May 18 21:30	15°♄12'11		desc. node	2142 Apr 27 03:15	26°♄31'06	
direct	2141 May 23 03:00	14°♄32'37		morning rise	2142 Apr 29 00:52	25°♄36'52	
morning max el	2141 Jun 05 23:59	21°♄27'11	24°19'42	direct	2142 May 04 07:31	24°♄30'24	
	2141 Jun 13 10:04	0°♄			2142 May 16 11:46	0°♄	
asc. node	2141 Jun 29 00:38	26°♄50'24		morning max el	2142 May 18 14:47	1°♄55'50	25°54'31
	2141 Jun 30 13:10	0°♄			2142 Jun 07 10:53	0°♄	
morning set	2141 Jul 01 00:36	1°♄00'11		morning set	2142 Jun 15 12:04	15°♄54'58	
				asc. node	2142 Jun 15 21:42	16°♄45'54	
superior conj	2141 Jul 08 00:31	16°♄06'40	1°22'15		2142 Jun 21 23:57	0°♄	
minimum elong	2141 Jul 07 22:09	15°♄53'46	1°21'56				
max. Earth dist.	2141 Jul 09 19:37	19°♄59'25	1.33074 AU	superior conj	2142 Jun 22 11:32	1°♄03'34	1°04'27
	2141 Jul 14 13:49	0°♄		minimum elong	2142 Jun 22 09:14	0°♄50'57	1°04'04
evening rise	2141 Jul 15 08:20	1°♄34'24		max. Earth dist.	2142 Jun 23 05:06	2°♄39'58	1.32432 AU
	2141 Jul 31 04:12	0°♄		evening rise	2142 Jun 29 11:52	16°♄08'58	
desc. node	2141 Aug 06 05:31	8°♄53'49			2142 Jul 06 12:28	0°♄	
evening max el	2141 Aug 17 14:21	22°♄16'35	27°26'07	desc. node	2142 Jul 24 02:32	27°♄22'15	
retrograde	2141 Aug 31 06:38	29°♄34'00			2142 Jul 26 07:09	0°♄	
evening set	2141 Sep 07 11:12	26°♄57'09		evening max el	2142 Jul 30 21:14	4°♄50'04	27°09'26
min. Earth dist.	2141 Sep 11 02:26	23°♄49'02	0.63403 AU	retrograde	2142 Aug 13 17:55	12°♄04'06	
inferior conj	2141 Sep 13 18:13	21°♄09'08	-3°27'15	evening set	2142 Aug 20 20:28	9°♄46'38	
minimum elong	2141 Sep 13 23:24	20°♄56'06	3°25'41	min. Earth dist.	2142 Aug 24 11:29	7°♄02'19	0.61527 AU
morning rise	2141 Sep 20 12:50	15°♄53'19		inferior conj	2142 Aug 27 14:02	4°♄17'13	-4°16'17
direct	2141 Sep 23 00:39	15°♄23'27		minimum elong	2142 Aug 27 19:15	4°♄05'36	4°15'10
asc. node	2141 Sep 24 23:53	15°♄42'27			2142 Sep 02 07:26	30°♄	
morning max el	2141 Sep 29 15:07	18°♄49'12	17°51'58	morning rise	2142 Sep 03 19:39	29°♄21'40	
	2141 Oct 07 19:01	0°♄		direct	2142 Sep 06 05:42	28°♄57'15	
morning set	2141 Oct 16 03:19	14°♄17'42			2142 Sep 10 00:52	0°♄	
	2141 Oct 25 06:33	0°♄		asc. node	2142 Sep 11 20:56	1°♄14'38	
				morning max el	2142 Sep 13 05:39	2°♄27'28	17°57'01
superior conj	2141 Oct 28 05:43	4°♄57'03	0°33'21	morning set	2142 Sep 29 02:35	27°♄25'55	
minimum elong	2141 Oct 28 09:02	5°♄10'46	0°32'54		2142 Sep 30 12:17	0°♄	
desc. node	2141 Nov 02 04:51	13°♄03'44					
max. Earth dist.	2141 Nov 03 11:41	15°♄07'40	1.43996 AU	superior conj	2142 Oct 09 12:34	16°♄08'42	1°08'08
evening rise	2141 Nov 12 20:18	29°♄49'38		minimum elong	2142 Oct 09 17:06	16°♄28'25	1°07'36
	2141 Nov 12 22:59	0°♄		max. Earth dist.	2142 Oct 17 00:35	28°♄51'29	1.42482 AU
	2141 Dec 03 05:37	0°♄			2142 Oct 17 17:15	0°♄	
evening max el	2141 Dec 11 22:37	10°♄46'02	20°51'58	desc. node	2142 Oct 20 01:53	3°♄50'29	
retrograde	2141 Dec 20 06:55	15°♄42'18		evening rise	2142 Oct 23 10:49	9°♄13'41	
asc. node	2141 Dec 21 23:08	15°♄26'39			2142 Nov 06 03:16	0°♄	
evening set	2141 Dec 24 06:36	14°♄11'42		evening max el	2142 Nov 24 17:59	24°♄17'35	22°06'11
inferior conj	2141 Dec 29 15:34	8°♄00'44	2°23'45	retrograde	2142 Dec 04 03:22	29°♄52'49	
minimum elong	2141 Dec 29 13:00	8°♄09'29	2°22'56	evening set	2142 Dec 08 14:17	28°♄05'50	
min. Earth dist.	2141 Dec 30 03:07	7°♄21'04	0.67481 AU	asc. node	2142 Dec 08 20:12	27°♄53'30	
morning rise	2142 Jan 03 19:14	1°♄47'40		inferior conj	2142 Dec 13 22:41	21°♄46'42	1°40'39
	2142 Jan 06 11:36	30°♄		minimum elong	2142 Dec 13 20:37	21°♄53'53	1°39'52
direct	2142 Jan 09 05:07	29°♄24'49		min. Earth dist.	2142 Dec 13 22:46	21°♄46'26	0.67813 AU
	2142 Jan 12 03:12	0°♄		morning rise	2142 Dec 19 02:49	15°♄35'28	
morning max el	2142 Jan 20 02:34	5°♄54'30	24°00'10	direct	2142 Dec 23 21:36	13°♄34'55	
desc. node	2142 Jan 29 04:06	16°♄36'05		morning max el	2143 Jan 02 13:05	19°♄16'44	22°31'53
	2142 Feb 07 18:12	0°♄			2143 Jan 11 12:49	0°♄	
morning set	2142 Feb 24 18:24	27°♄08'02		desc. node	2143 Jan 16 01:08	6°♄10'13	
	2142 Feb 26 10:02	0°♄			2143 Jan 31 22:54	0°♄	
max. Earth dist.	2142 Feb 28 13:05	3°♄45'22	1.38305 AU	morning set	2143 Feb 05 09:06	7°♄07'24	
				max. Earth dist.	2143 Feb 10 09:29	15°♄28'59	1.40463 AU
superior conj	2142 Mar 07 18:16	17°♄03'35	-1°42'41				
minimum elong	2142 Mar 07 22:35	17°♄24'06	1°42'13	superior conj	2143 Feb 18 04:34	29°♄08'17	-1°59'30
	2142 Mar 14 10:15	0°♄		minimum elong	2143 Feb 18 07:42	29°♄22'24	1°59'21
evening rise	2142 Mar 16 16:44	4°♄27'52			2143 Feb 18 16:00	0°♄	
asc. node	2142 Mar 19 22:26	10°♄45'05		evening rise	2143 Feb 28 04:59	17°♄45'20	
	2142 Apr 01 02:19	0°♄		asc. node	2143 Mar 06 19:30	29°♄56'30	
evening max el	2142 Apr 02 04:34	1°♄07'25	18°55'53		2143 Mar 06 20:17	0°♄	
retrograde	2142 Apr 10 14:41	5°♄12'57		evening max el	2143 Mar 16 10:01	13°♄42'53	18°21'50
evening set	2142 Apr 12 19:25	4°♄57'23		retrograde	2143 Mar 23 17:17	17°♄20'05	
inferior conj	2142 Apr 20 20:07	0°♄40'47	1°43'57	evening set	2143 Mar 26 03:57	16°♄56'49	
minimum elong	2142 Apr 20 23:41	0°♄34'25	1°42'49	inferior conj	2143 Apr 02 09:50	12°♄19'56	2°53'19
	2142 Apr 21 18:57	30°♄		minimum elong	2143 Apr 02 13:33	12°♄12'11	2°52'29
min. Earth dist.	2142 Apr 24 00:15	28°♄26'26	0.56964 AU	min. Earth dist.	2143 Apr 05 20:22	9°♄29'27	0.58938 AU

morning rise	2143 Apr 09 20:29	6° Υ 46'47		min. Earth dist.	2144 Mar 17 23:29	21° X 34'36	0.61091 AU
desc. node	2143 Apr 14 00:19	5° Υ 15'42		morning rise	2144 Mar 21 12:04	18° X 44'29	
direct	2143 Apr 16 01:20	5° Υ 04'36		direct	2144 Mar 28 06:46	16° X 27'21	
morning max el	2143 Apr 30 10:15	12° Υ 48'43	27°06'34	desc. node	2144 Mar 30 21:21	16° X 46'21	
	2143 May 13 23:44	0° B		morning max el	2144 Apr 11 12:06	24° X 21'35	27°44'46
morning set	2143 May 30 21:28	0° Π 41'41			2144 Apr 16 15:02	0° Υ	
	2143 May 30 13:29	0° Π			2144 May 06 06:49	0° B	
asc. node	2143 Jun 02 18:45	6° Π 50'06		morning set	2144 May 14 02:58	15° B 14'24	
				asc. node	2144 May 19 15:48	26° B 58'44	
superior conj	2143 Jun 06 23:19	15° Π 59'51	0°43'00	max. Earth dist.	2144 May 20 04:22	28° B 07'09	1.32302 AU
minimum elong	2143 Jun 06 21:33	15° Π 50'08	0°42'38				
max. Earth dist.	2143 Jun 06 17:18	15° Π 26'42	1.32172 AU	superior conj	2144 May 21 10:13	0° Π 50'07	0°18'35
	2143 Jun 13 09:44	0° C		minimum elong	2144 May 21 09:22	0° Π 45'31	0°18'23
evening rise	2143 Jun 13 20:12	0° C 55'22			2144 May 21 01:03	0° Π	
	2143 Jun 29 16:04	0° Ω		evening rise	2144 May 28 07:13	15° Π 46'51	
desc. node	2143 Jul 10 23:33	14° Ω 42'30			2144 Jun 04 09:02	0° C	
evening max el	2143 Jul 12 21:28	16° Ω 37'20	26°19'44	evening max el	2144 Jun 23 14:37	27° C 38'38	25°01'59
retrograde	2143 Jul 26 21:04	23° Ω 48'46			2144 Jun 26 06:45	0° Ω	
evening set	2143 Aug 02 09:49	22° Ω 03'11		desc. node	2144 Jun 26 20:35	0° Ω 27'09	
min. Earth dist.	2143 Aug 06 10:24	19° Ω 27'24	0.59468 AU	retrograde	2144 Jul 07 14:16	4° Ω 44'43	
inferior conj	2143 Aug 09 17:53	16° Ω 54'09	-4°50'26	evening set	2144 Jul 12 23:36	3° Ω 38'07	
minimum elong	2143 Aug 09 21:05	16° Ω 47'58	4°50'07	min. Earth dist.	2144 Jul 18 02:11	0° Ω 52'01	0.57470 AU
morning rise	2143 Aug 17 10:26	12° Ω 21'29			2144 Jul 19 09:37	30° R C	
direct	2143 Aug 19 21:18	12° Ω 00'23		inferior conj	2144 Jul 21 02:33	28° C 50'46	-4°57'46
morning max el	2143 Aug 27 15:23	15° Ω 44'47	18°21'51	minimum elong	2144 Jul 21 01:09	28° C 53'07	4°57'43
asc. node	2143 Aug 29 17:59	18° Ω 00'41		morning rise	2144 Jul 29 05:21	24° C 40'11	
	2143 Sep 06 14:53	0° P		direct	2144 Jul 31 19:10	24° C 20'53	
morning set	2143 Sep 12 15:28	11° P 13'10		morning max el	2144 Aug 09 17:07	28° C 31'28	19°07'35
					2144 Aug 11 04:06	0° Ω	
superior conj	2143 Sep 21 19:23	28° P 31'20	1°30'54	asc. node	2144 Aug 15 15:01	5° Ω 45'23	
minimum elong	2143 Sep 21 22:48	28° P 47'01	1°30'36	morning set	2144 Aug 26 13:51	25° Ω 28'04	
	2143 Sep 22 14:45	0° A			2144 Aug 28 20:35	0° P	
max. Earth dist.	2143 Sep 29 07:53	11° A 53'38	1.40566 AU				
evening rise	2143 Oct 03 20:51	19° A 32'19		superior conj	2144 Sep 03 20:32	11° P 48'20	1°42'45
desc. node	2143 Oct 06 22:53	24° A 33'44		minimum elong	2144 Sep 03 22:05	11° P 55'50	1°42'41
	2143 Oct 10 09:15	0° M		max. Earth dist.	2144 Sep 10 11:30	24° P 12'33	1.38506 AU
	2143 Oct 31 11:15	0° X			2144 Sep 13 17:37	0° A	
evening max el	2143 Nov 07 08:47	7° X 51'27	23°25'46	evening rise	2144 Sep 14 06:57	0° A 58'08	
retrograde	2143 Nov 17 21:04	14° X 04'40		desc. node	2144 Sep 22 19:53	15° A 09'17	
evening set	2143 Nov 22 20:50	12° X 00'44			2144 Oct 02 15:55	0° M	
asc. node	2143 Nov 25 17:14	8° X 59'41		evening max el	2144 Oct 19 21:09	21° M 28'53	24°44'28
inferior conj	2143 Nov 28 06:06	5° X 37'15	0°51'41	retrograde	2144 Oct 31 10:52	28° M 13'22	
minimum elong	2143 Nov 28 04:55	5° X 41'19	0°51'12	evening set	2144 Nov 06 00:34	25° M 53'11	
min. Earth dist.	2143 Nov 27 19:29	6° X 13'41	0.67796 AU	min. Earth dist.	2144 Nov 10 14:52	20° M 39'52	0.67449 AU
	2143 Dec 02 22:33	30° R M		inferior conj	2144 Nov 11 12:02	19° M 29'39	-0°01'55
morning rise	2143 Dec 03 12:58	29° M 29'43		minimum elong	2144 Nov 11 12:05	19° M 29'29	0°01'53
direct	2143 Dec 07 17:23	27° M 52'02		transit middle	2144 Nov 11 12:05	19° M 29'29	0°01'53
	2143 Dec 13 00:47	0° X		transit begin	2144 Nov 11 09:21	19° M 38'35	
morning max el	2143 Dec 16 05:14	2° X 48'24	21°09'19	transit end	2144 Nov 11 14:49	19° M 20'25	
desc. node	2144 Jan 02 22:10	26° X 10'12		asc. node	2144 Nov 11 14:15	19° M 22'16	
	2144 Jan 05 12:03	0° B		morning rise	2144 Nov 16 23:42	13° M 28'06	
morning set	2144 Jan 15 19:43	15° B 49'00		direct	2144 Nov 20 15:20	12° M 11'23	
max. Earth dist.	2144 Jan 23 11:55	28° B 06'40	1.42448 AU	morning max el	2144 Nov 28 04:56	16° M 30'23	19°58'05
	2144 Jan 24 15:32	0° \approx			2144 Dec 08 18:20	0° X	
				desc. node	2144 Dec 19 19:09	16° X 28'22	
superior conj	2144 Jan 30 16:50	10° \approx 09'31	-2°05'06	morning set	2144 Dec 24 15:40	23° X 55'46	
minimum elong	2144 Jan 30 16:16	10° \approx 07'05	2°05'06		2144 Dec 28 13:33	0° B	
	2144 Feb 10 22:48	0° X		max. Earth dist.	2145 Jan 04 21:34	11° B 33'38	1.44004 AU
evening rise	2144 Feb 11 03:26	0° X 20'54					
asc. node	2144 Feb 21 16:32	18° X 38'44		superior conj	2145 Jan 10 02:58	19° B 58'47	-1°54'27
evening max el	2144 Feb 27 20:34	26° X 42'32	18°07'43	minimum elong	2145 Jan 09 20:54	19° B 34'04	1°54'04
	2144 Mar 04 06:58	0° Υ			2145 Jan 16 04:41	0° \approx	
retrograde	2144 Mar 05 12:33	0° Υ 07'11		evening rise	2145 Jan 23 07:40	12° \approx 05'05	
	2144 Mar 06 18:19	30° R X			2145 Feb 02 23:05	0° X	
evening set	2144 Mar 08 04:44	29° X 34'23		asc. node	2145 Feb 07 13:34	6° X 42'02	
inferior conj	2144 Mar 14 19:16	24° X 36'51	3°30'43	evening max el	2145 Feb 10 09:07	9° X 57'34	18°12'56
minimum elong	2144 Mar 14 21:18	24° X 31'56	3°30'30	retrograde	2145 Feb 16 20:01	13° X 23'32	

evening set	2145 Feb 19 17:28	12°  40'03		evening max el	2146 Jan 24 20:59	23°  21'43	18°36'34
inferior conj	2145 Feb 25 20:25	7°  22'42	3°42'55	asc. node	2146 Jan 25 10:36	23°  55'17	
minimum elong	2145 Feb 25 20:30	7°  22'29	3°42'56	retrograde	2146 Jan 31 11:30	27°  01'09	
min. Earth dist.	2145 Feb 28 11:22	4°  32'21	0.63125 AU	evening set	2146 Feb 03 14:38	26°  05'57	
morning rise	2145 Mar 03 22:34	1°  19'34		inferior conj	2146 Feb 09 09:22	20°  30'18	3°36'27
	2145 Mar 05 22:08	30°  R 		minimum elong	2146 Feb 09 07:56	20°  34'36	3°36'18
direct	2145 Mar 10 21:18	28°  37'53		min. Earth dist.	2146 Feb 11 08:43	18°  08'47	0.64854 AU
	2145 Mar 16 05:18	0°  X		morning rise	2146 Feb 15 00:45	14°  21'18	
desc. node	2145 Mar 17 18:22	0°  X50'37		direct	2146 Feb 21 19:01	11°  29'46	
morning max el	2145 Mar 24 18:54	6°  X34'02	27°45'39	desc. node	2146 Mar 04 15:24	16°  54'17	
	2145 Apr 11 15:29	0°  Y		morning max el	2146 Mar 07 04:16	19°  18'06	27°11'54
morning set	2145 Apr 28 02:20	29°  Y25'46			2146 Mar 16 07:00	0°  X	
	2145 Apr 28 09:09	0°  B			2146 Apr 04 15:18	0°  Y	
max. Earth dist.	2145 May 03 10:24	10°  B28'19	1.32838 AU	morning set	2146 Apr 11 16:40	13°  Y06'18	
				max. Earth dist.	2146 Apr 16 07:43	22°  Y19'55	1.33817 AU
superior conj	2145 May 05 18:29	15°  B28'41	-0°08'04	superior conj	2146 Apr 19 22:08	29°  Y48'43	-0°35'57
minimum elong	2145 May 05 18:53	15°  B30'47	0°07'59	minimum elong	2146 Apr 19 23:57	29°  Y58'16	0°35'34
behind sun begin	2145 May 05 14:18	15°  B06'06			2146 Apr 20 00:17	0°  B	
behind sun end	2145 May 05 23:27	15°  B55'29		asc. node	2146 Apr 23 09:53	7°  B12'44	
asc. node	2145 May 06 12:51	17°  B07'47		evening rise	2146 Apr 27 05:52	15°  B19'36	
evening rise	2145 May 12 19:04	0°  II37'10			2146 May 04 15:56	0°  II	
	2145 May 12 12:03	0°  II		evening max el	2146 May 17 21:46	18°  II45'00	21°53'20
	2145 May 29 05:05	0°  B		retrograde	2146 May 30 11:48	24°  II56'36	
evening max el	2145 Jun 05 04:24	8°  B11'37	23°28'10	desc. node	2146 May 31 14:37	24°  II53'46	
desc. node	2145 Jun 13 17:35	14°  B01'53		evening set	2146 Jun 02 03:13	24°  II41'01	
retrograde	2145 Jun 18 19:03	15°  B00'05		min. Earth dist.	2146 Jun 11 02:06	20°  II52'10	0.54996 AU
evening set	2145 Jun 22 16:36	14°  B26'46		inferior conj	2146 Jun 11 12:43	20°  II37'17	-3°02'01
min. Earth dist.	2145 Jun 29 14:34	11°  B15'30	0.55869 AU	minimum elong	2146 Jun 11 05:06	20°  II47'57	2°59'42
inferior conj	2145 Jul 01 15:18	10°  B03'06	-4°23'59	morning rise	2146 Jun 20 08:20	16°  II43'46	
minimum elong	2145 Jul 01 08:43	10°  B12'55	4°22'48	direct	2146 Jun 23 10:50	16°  II22'29	
morning rise	2145 Jul 10 03:24	6°  B07'58		morning max el	2146 Jul 05 11:48	22°  II01'22	21°41'12
direct	2145 Jul 12 22:02	5°  B48'58			2146 Jul 12 07:31	0°  B	
morning max el	2145 Jul 23 08:14	10°  B38'49	20°14'38	asc. node	2146 Jul 20 09:06	13°  B19'53	
asc. node	2145 Aug 02 12:03	24°  B15'41		morning set	2146 Jul 26 03:48	24°  B50'37	
	2145 Aug 05 16:30	0°  B			2146 Jul 28 14:49	0°  B	
morning set	2145 Aug 10 18:45	10°  B03'04					
superior conj	2145 Aug 18 10:59	25°  B45'36	1°45'34	superior conj	2146 Aug 02 10:40	10°  B10'23	1°41'02
minimum elong	2145 Aug 18 10:47	25°  B44'38	1°45'34	minimum elong	2146 Aug 02 09:12	10°  B02'42	1°40'58
	2145 Aug 20 13:52	0°  B		max. Earth dist.	2146 Aug 06 06:07	18°  B00'57	1.34901 AU
max. Earth dist.	2145 Aug 23 17:09	6°  B06'53	1.36558 AU	evening rise	2146 Aug 10 16:29	26°  B44'57	
evening rise	2145 Aug 27 15:04	13°  B26'44			2146 Aug 12 09:38	0°  B	
	2145 Sep 06 05:15	0°  B		desc. node	2146 Aug 27 13:57	25°  B36'48	
desc. node	2145 Sep 09 16:54	5°  B32'38			2146 Aug 30 13:30	0°  B	
	2145 Sep 27 13:15	0°  B		evening max el	2146 Sep 14 21:40	18°  B45'54	26°49'28
evening max el	2145 Oct 02 09:15	5°  B09'32	25°54'53	retrograde	2146 Sep 27 23:33	26°  B01'12	
retrograde	2145 Oct 14 19:54	12°  B14'34		evening set	2146 Oct 04 16:19	23°  B18'52	
evening set	2145 Oct 20 23:46	9°  B40'47		min. Earth dist.	2146 Oct 08 16:04	19°  B17'38	0.65744 AU
min. Earth dist.	2145 Oct 25 06:34	5°  B02'55	0.66772 AU	inferior conj	2146 Oct 10 12:08	17°  B08'47	-1°57'22
inferior conj	2145 Oct 26 14:44	3°  B21'42	-0°58'46	minimum elong	2146 Oct 10 15:17	16°  B59'33	1°56'07
minimum elong	2145 Oct 26 16:16	3°  B16'51	0°58'07	asc. node	2146 Oct 16 08:18	11°  B36'53	
asc. node	2145 Oct 29 11:16	29°  B58'04		morning rise	2146 Oct 16 14:54	11°  B27'55	
	2145 Oct 29 10:32	30°  R 		direct	2146 Oct 19 11:14	10°  B43'04	
morning rise	2145 Nov 01 09:06	27°  B28'55		morning max el	2146 Oct 26 00:57	14°  B17'42	18°21'00
direct	2145 Nov 04 13:57	26°  B29'58			2146 Nov 06 08:41	0°  B	
	2145 Nov 11 03:18	0°  B		morning set	2146 Nov 14 08:37	12°  B54'22	
morning max el	2145 Nov 11 12:06	0°  B21'45	19°01'27	desc. node	2146 Nov 23 13:14	27°  B40'27	
	2145 Dec 02 04:47	0°  B			2146 Nov 25 00:23	0°  B	
morning set	2145 Dec 03 22:30	2°  B43'05		superior conj	2146 Nov 29 14:57	7°  B16'48	-0°39'58
desc. node	2145 Dec 06 16:11	6°  B59'58		minimum elong	2146 Nov 29 09:48	6°  B56'30	0°39'18
max. Earth dist.	2145 Dec 18 13:29	25°  B37'58	1.44940 AU	max. Earth dist.	2146 Dec 01 08:48	10°  B01'18	1.45143 AU
					2146 Dec 14 02:46	0°  B	
superior conj	2145 Dec 20 13:30	28°  B47'12	-1°24'40	evening rise	2146 Dec 15 20:57	2°  B45'23	
minimum elong	2145 Dec 20 04:38	28°  B12'11	1°23'45	greatest brilliancy	2146 Dec 26 16:10	19°  B37'24	-0.8m
	2145 Dec 21 07:56	0°  B			2147 Jan 02 16:37	0°  B	
evening rise	2146 Jan 04 13:54	22° B52'48		evening max el	2147 Jan 08 05:49	6° B50'20	19°17'24
	2146 Jan 08 22:26	0° B					

asc. node	2147 Jan 12 07:37	10°04'55		max. Earth dist.	2147 Nov 14 03:31	24°02'20" 1.44605 AU	
retrograde	2147 Jan 15 07:37	10°53'39			2147 Nov 17 17:16	0°00'	
evening set	2147 Jan 18 17:27	9°45'44		evening rise	2147 Nov 25 10:00	11°57'18	
inferior conj	2147 Jan 24 06:41	3°53'57	3°16'10		2147 Dec 07 06:58	0°00'	
minimum elong	2147 Jan 24 04:21	4°01'26	3°15'43	greatest brilliancy	2147 Dec 09 15:46	3°30'26	-0.6m
min. Earth dist.	2147 Jan 25 14:54	2°10'17	0.66187 AU	evening max el	2147 Dec 22 09:50	20°20'00	20°13'41
	2147 Jan 27 09:32	30°00'		retrograde	2147 Dec 30 05:33	24°55'41	
morning rise	2147 Jan 29 15:01	27°41'48		asc. node	2147 Dec 30 04:39	24°55'41	
direct	2147 Feb 04 22:57	24°54'05		evening set	2148 Jan 02 23:36	23°33'47	
	2147 Feb 15 01:45	0°00'		inferior conj	2148 Jan 08 09:34	17°28'43	2°45'22
morning max el	2147 Feb 17 13:58	2°22'43	26°10'26	minimum elong	2148 Jan 08 06:57	17°37'34	2°44'38
desc. node	2147 Feb 19 12:27	4°24'37		min. Earth dist.	2148 Jan 09 04:12	16°25'48	0.67115 AU
	2147 Mar 10 11:15	0°00'		morning rise	2148 Jan 13 14:07	11°15'19	
morning set	2147 Mar 25 18:10	26°04'46		direct	2148 Jan 19 08:22	8°41'32	
	2147 Mar 27 20:07	0°00'		morning max el	2148 Jan 30 22:43	15°36'46	24°50'30
max. Earth dist.	2147 Mar 29 17:48	3°40'00	1.35254 AU	desc. node	2148 Feb 06 09:30	22°56'02	
					2148 Feb 11 19:22	0°00'	
superior conj	2147 Apr 03 18:48	13°43'09	-1°03'48		2148 Mar 02 09:23	0°00'	
minimum elong	2147 Apr 03 22:00	13°59'32	1°03'13	morning set	2148 Mar 07 01:37	8°06'01	
asc. node	2147 Apr 10 06:57	27°09'27		max. Earth dist.	2148 Mar 10 17:15	14°41'55	1.37104 AU
evening rise	2147 Apr 11 13:39	29°47'48					
	2147 Apr 11 16:02	0°00'		superior conj	2148 Mar 17 05:20	27°02'57	-1°29'41
evening max el	2147 Apr 30 00:58	29°46'09	20°29'55	minimum elong	2148 Mar 17 09:31	27°23'28	1°29'07
	2147 Apr 30 06:44	0°00'			2148 Mar 18 17:22	0°00'	
retrograde	2147 May 11 01:00	5°06'45		evening rise	2148 Mar 25 16:07	13°54'12	
evening set	2147 May 13 02:31	4°56'15		asc. node	2148 Mar 27 03:59	16°52'46	
desc. node	2147 May 18 11:39	3°03'59			2148 Apr 03 05:06	0°00'	
inferior conj	2147 May 22 07:03	0°58'21	-1°06'43	evening max el	2148 Apr 11 15:56	11°26'40	19°24'28
minimum elong	2147 May 22 03:53	1°02'55	1°05'33	retrograde	2148 Apr 20 23:03	15°56'25	
min. Earth dist.	2147 May 23 14:38	0°12'35	0.55055 AU	evening set	2148 Apr 23 00:32	15°44'07	
	2147 May 23 23:24	30°00'		inferior conj	2148 May 01 12:36	11°37'17	0°48'39
morning rise	2147 May 31 04:18	26°46'43		minimum elong	2148 May 01 14:36	11°34'01	0°47'57
direct	2147 Jun 03 21:13	26°17'07		min. Earth dist.	2148 May 04 05:18	9°52'12	0.56045 AU
	2147 Jun 13 22:26	0°00'		desc. node	2148 May 04 08:42	9°46'51	
morning max el	2147 Jun 17 06:14	2°46'12	23°20'57	morning rise	2148 May 10 01:47	6°52'41	
	2147 Jul 05 19:49	0°00'		direct	2148 May 14 17:30	6°03'20	
asc. node	2147 Jul 07 06:11	2°49'27		morning max el	2148 May 28 20:46	13°13'14	25°01'56
morning set	2147 Jul 10 15:05	9°45'11			2148 Jun 10 22:23	0°00'	
				asc. node	2148 Jun 23 03:15	22°37'04	
superior conj	2147 Jul 17 16:34	24°53'34	1°30'34	morning set	2148 Jun 24 02:56	24°41'16	
minimum elong	2147 Jul 17 14:22	24°41'46	1°30'20		2148 Jun 26 14:31	0°00'	
max. Earth dist.	2147 Jul 20 04:14	0°11'13	1.33623 AU				
	2147 Jul 20 02:07	0°00'		superior conj	2148 Jul 01 02:17	9°47'27	1°15'12
evening rise	2147 Jul 25 06:48	10°40'51		minimum elong	2148 Jun 30 23:53	9°34'20	1°14'50
	2147 Aug 04 17:48	0°00'		max. Earth dist.	2148 Jul 02 10:12	12°41'11	1.32747 AU
desc. node	2147 Aug 14 10:58	15°13'26		evening rise	2148 Jul 08 06:22	25°03'47	
	2147 Aug 26 06:32	0°00'			2148 Jul 10 17:05	0°00'	
evening max el	2147 Aug 28 09:24	2°07'05	27°20'53		2148 Jul 28 06:58	0°00'	
retrograde	2147 Sep 10 21:26	9°25'23		desc. node	2148 Jul 31 07:59	4°11'20	
evening set	2147 Sep 17 23:34	6°42'57		evening max el	2148 Aug 09 18:38	15°01'16	27°23'04
min. Earth dist.	2147 Sep 21 17:08	3°17'08	0.64357 AU	retrograde	2148 Aug 23 13:13	22°18'11	
inferior conj	2147 Sep 24 01:53	0°45'54	-2°55'25	evening set	2148 Aug 30 18:08	19°47'36	
minimum elong	2147 Sep 24 06:29	0°33'36	2°53'51	min. Earth dist.	2148 Sep 03 08:17	16°51'19	0.62631 AU
	2147 Sep 24 19:11	30°00'		inferior conj	2148 Sep 06 05:12	14°07'02	-3°49'21
morning rise	2147 Sep 30 14:27	25°20'15		minimum elong	2148 Sep 06 10:36	13°54'09	3°47'54
direct	2147 Oct 03 04:38	24°45'56		morning rise	2148 Sep 13 04:31	8°59'48	
asc. node	2147 Oct 03 05:22	24°45'57		direct	2148 Sep 15 15:09	8°32'42	
morning max el	2147 Oct 09 16:50	28°12'22	17°57'31	asc. node	2148 Sep 19 02:26	9°28'52	
	2147 Oct 11 08:17	0°00'		morning max el	2148 Sep 22 08:49	11°59'22	17°51'50
morning set	2147 Oct 26 22:59	24°27'59			2148 Oct 04 11:47	0°00'	
	2147 Oct 30 05:31	0°00'		morning set	2148 Oct 08 12:04	7°07'03	
superior conj	2147 Nov 09 04:45	16°26'59	0°08'20	superior conj	2148 Oct 19 20:04	26°53'24	0°49'34
minimum elong	2147 Nov 09 05:43	16°30'53	0°08'12	minimum elong	2148 Oct 20 00:18	27°11'17	0°49'00
behind sun begin	2147 Nov 08 20:47	15°54'45			2148 Oct 21 16:29	0°00'	
behind sun end	2147 Nov 09 14:39	17°06'57		max. Earth dist.	2148 Oct 26 18:41	8°22'28	1.43405 AU
desc. node	2147 Nov 10 10:16	18°25'55		desc. node	2148 Oct 27 07:18	9°13'25	

evening rise	2148 Nov 03 18:59	21° \mathbb{M} 04'27		desc. node	2149 Oct 14 04:18	29° \mathfrak{L} 59'10	
	2148 Nov 09 14:40	0° \mathfrak{A}			2149 Oct 14 04:31	0° \mathbb{M}	
	2148 Nov 30 21:42	0° \mathfrak{Z}		evening rise	2149 Oct 14 16:38	0° \mathbb{M} 48'46	
evening max el	2148 Dec 04 08:17	3° \mathfrak{Z} 50'48	21°22'31		2149 Nov 03 03:01	0° \mathfrak{A}	
retrograde	2148 Dec 13 03:06	9° \mathfrak{Z} 04'02		evening max el	2149 Nov 17 01:33	17° \mathfrak{A} 23'11	22°39'47
asc. node	2148 Dec 16 01:41	8° \mathfrak{Z} 16'11		retrograde	2149 Nov 26 22:28	23° \mathfrak{A} 15'01	
evening set	2148 Dec 17 07:13	7° \mathfrak{Z} 26'46		evening set	2149 Dec 01 14:35	21° \mathfrak{A} 21'06	
inferior conj	2148 Dec 22 15:45	1° \mathfrak{Z} 11'44	2°06'18	asc. node	2149 Dec 02 22:44	20° \mathfrak{A} 05'37	
minimum elong	2148 Dec 22 13:21	1° \mathfrak{Z} 20'02	2°05'28	inferior conj	2149 Dec 06 23:12	14° \mathfrak{A} 59'47	1°20'33
min. Earth dist.	2148 Dec 22 22:19	0° \mathfrak{Z} 49'00	0.67660 AU	minimum elong	2149 Dec 06 21:28	15° \mathfrak{A} 05'48	1°19'52
	2148 Dec 23 12:33	30° \mathfrak{R} \mathfrak{A}		min. Earth dist.	2149 Dec 06 18:46	15° \mathfrak{A} 15'09	0.67848 AU
morning rise	2148 Dec 27 19:17	24° \mathfrak{A} 58'57		morning rise	2149 Dec 12 04:12	8° \mathfrak{A} 49'41	
direct	2149 Jan 01 22:40	22° \mathfrak{A} 45'16		direct	2149 Dec 16 16:48	6° \mathfrak{A} 58'41	
morning max el	2149 Jan 12 07:36	28° \mathfrak{A} 55'37	23°22'22	morning max el	2149 Dec 25 19:55	12° \mathfrak{A} 20'31	21°55'36
	2149 Jan 13 08:29	0° \mathfrak{Z}			2150 Jan 08 18:43	0° \mathfrak{Z}	
desc. node	2149 Jan 23 06:32	12° \mathfrak{Z} 11'09		desc. node	2150 Jan 10 03:33	1° \mathfrak{Z} 57'10	
	2149 Feb 04 14:06	0° \approx		morning set	2150 Jan 27 10:54	28° \mathfrak{Z} 17'23	
morning set	2149 Feb 16 08:46	18° \approx 53'48			2150 Jan 28 12:24	0° \approx	
max. Earth dist.	2149 Feb 20 11:54	25° \approx 58'31	1.39223 AU	max. Earth dist.	2150 Feb 02 10:00	8° \approx 02'40	1.41345 AU
	2149 Feb 22 18:44	0° \mathfrak{H}					
superior conj	2149 Feb 28 01:51	9° \mathfrak{H} 38'36	-1°50'52	superior conj	2150 Feb 10 03:26	21° \approx 18'05	-2°03'33
minimum elong	2149 Feb 28 05:55	9° \mathfrak{H} 57'33	1°50'33	minimum elong	2150 Feb 10 05:20	21° \approx 26'25	2°03'31
evening rise	2149 Mar 09 10:28	27° \mathfrak{H} 31'43			2150 Feb 14 23:55	0° \mathfrak{H}	
	2149 Mar 10 17:15	0° \mathfrak{Y}		evening rise	2150 Feb 20 17:18	10° \mathfrak{H} 32'13	
asc. node	2149 Mar 14 01:01	6° \mathfrak{Y} 17'36		asc. node	2150 Feb 28 22:03	25° \mathfrak{H} 17'40	
evening max el	2149 Mar 25 17:04	23° \mathfrak{Y} 44'51	18°38'56		2150 Mar 03 20:40	0° \mathfrak{Y}	
retrograde	2149 Apr 02 14:22	27° \mathfrak{Y} 36'07		evening max el	2150 Mar 09 01:11	6° \mathfrak{Y} 32'30	18°13'30
evening set	2149 Apr 04 21:33	27° \mathfrak{Y} 17'39		retrograde	2150 Mar 16 00:23	10° \mathfrak{Y} 02'05	
inferior conj	2149 Apr 12 14:00	22° \mathfrak{Y} 53'04	2°17'31	evening set	2150 Mar 18 13:37	9° \mathfrak{Y} 34'49	
minimum elong	2149 Apr 12 17:59	22° \mathfrak{Y} 45'29	2°16'25	inferior conj	2150 Mar 25 12:30	4° \mathfrak{Y} 49'14	3°12'41
min. Earth dist.	2149 Apr 15 22:59	20° \mathfrak{Y} 20'16	0.57762 AU	minimum elong	2150 Mar 25 15:37	4° \mathfrak{Y} 42'18	3°12'09
morning rise	2149 Apr 20 11:17	17° \mathfrak{Y} 35'20		min. Earth dist.	2150 Mar 28 21:40	1° \mathfrak{Y} 50'42	0.59855 AU
desc. node	2149 Apr 21 05:44	17° \mathfrak{Y} 15'08			2150 Mar 31 06:45	30° \mathfrak{R} \mathfrak{H}	
direct	2149 Apr 26 04:15	16° \mathfrak{Y} 13'56		morning rise	2150 Apr 01 15:21	29° \mathfrak{H} 07'04	
morning max el	2149 May 10 13:05	23° \mathfrak{Y} 49'24	26°28'39	direct	2150 Apr 08 03:33	27° \mathfrak{H} 09'06	
	2149 May 16 03:12	0° \mathfrak{B}		desc. node	2150 Apr 08 02:45	27° \mathfrak{H} 09'07	
	2149 Jun 03 20:55	0° \mathbb{I}			2150 Apr 16 10:30	0° \mathfrak{Y}	
morning set	2149 Jun 08 13:41	9° \mathbb{I} 33'03		morning max el	2150 Apr 22 11:00	4° \mathfrak{Y} 57'58	27°27'16
asc. node	2149 Jun 10 00:18	12° \mathbb{I} 36'41			2150 May 10 23:59	0° \mathfrak{B}	
				morning set	2150 May 23 21:40	24° \mathfrak{B} 15'04	
superior conj	2149 Jun 15 13:49	24° \mathbb{I} 44'51	0°55'46		2150 May 26 14:58	0° \mathbb{I}	
minimum elong	2149 Jun 15 11:42	24° \mathbb{I} 33'10	0°55'22	asc. node	2150 May 27 21:20	2° \mathbb{I} 43'42	
max. Earth dist.	2149 Jun 15 21:04	25° \mathbb{I} 24'42	1.32270 AU	max. Earth dist.	2150 May 30 09:17	8° \mathbb{I} 11'06	1.32182 AU
	2149 Jun 17 23:15	0° \mathfrak{E}					
evening rise	2149 Jun 22 12:11	9° \mathfrak{E} 44'15		superior conj	2150 May 31 01:28	9° \mathbb{I} 40'01	0°32'59
	2149 Jul 03 00:42	0° \mathfrak{O}		minimum elong	2150 May 31 00:03	9° \mathbb{I} 32'13	0°32'41
desc. node	2149 Jul 18 05:01	22° \mathfrak{O} 13'46		evening rise	2150 Jun 06 21:57	24° \mathbb{I} 34'35	
evening max el	2149 Jul 22 22:57	27° \mathfrak{O} 16'04	26°52'19		2150 Jun 09 12:31	0° \mathfrak{E}	
	2149 Jul 26 02:45	0° \mathfrak{M}			2150 Jun 27 05:08	0° \mathfrak{O}	
retrograde	2149 Aug 05 21:31	4° \mathfrak{M} 29'29		evening max el	2150 Jul 04 20:20	8° \mathfrak{O} 44'25	25°49'38
evening set	2149 Aug 12 19:33	2° \mathfrak{M} 24'23		desc. node	2150 Jul 05 02:01	8° \mathfrak{O} 57'53	
	2149 Aug 16 05:54	30° \mathfrak{R} \mathfrak{O}		retrograde	2150 Jul 18 20:28	15° \mathfrak{O} 53'30	
min. Earth dist.	2149 Aug 16 13:05	29° \mathfrak{O} 45'39	0.60653 AU	evening set	2150 Jul 24 23:06	14° \mathfrak{O} 24'36	
inferior conj	2149 Aug 19 18:41	27° \mathfrak{O} 03'10	-4°33'16	min. Earth dist.	2150 Jul 29 08:42	11° \mathfrak{O} 46'28	0.58597 AU
minimum elong	2149 Aug 19 23:21	26° \mathfrak{O} 53'20	4°32'29	inferior conj	2150 Aug 01 14:46	9° \mathfrak{O} 24'46	-4°57'41
morning rise	2149 Aug 27 05:00	22° \mathfrak{O} 17'04		minimum elong	2150 Aug 01 16:17	9° \mathfrak{O} 21'59	4°57'37
direct	2149 Aug 29 14:54	21° \mathfrak{O} 54'26		morning rise	2150 Aug 09 11:43	5° \mathfrak{O} 01'27	
asc. node	2149 Sep 05 23:30	25° \mathfrak{O} 34'14		direct	2150 Aug 11 23:42	4° \mathfrak{O} 41'10	
morning max el	2149 Sep 05 21:42	25° \mathfrak{O} 29'51	18°05'04	morning max el	2150 Aug 20 04:20	8° \mathfrak{O} 35'16	18°38'36
	2149 Sep 09 17:13	0° \mathfrak{M}		asc. node	2150 Aug 23 20:33	12° \mathfrak{O} 47'11	
morning set	2149 Sep 21 17:43	20° \mathfrak{M} 33'23			2150 Sep 03 02:15	0° \mathfrak{M}	
	2149 Sep 26 19:42	0° \mathfrak{L}		morning set	2150 Sep 05 11:06	4° \mathfrak{M} 34'01	
superior conj	2149 Oct 01 13:42	8° \mathfrak{L} 36'44	1°19'13	superior conj	2150 Sep 14 05:00	21° \mathfrak{M} 24'20	1°37'08
minimum elong	2149 Oct 01 17:57	8° \mathfrak{L} 55'37	1°18'46	minimum elong	2150 Sep 14 07:39	21° \mathfrak{M} 36'47	1°36'57
max. Earth dist.	2149 Oct 09 04:48	21° \mathfrak{L} 48'06	1.41699 AU		2150 Sep 18 21:08	0° \mathfrak{L}	
				max. Earth dist.	2150 Sep 21 10:24	4° \mathfrak{L} 32'14	1.39701 AU

evening rise	2150 Sep 25 12:55	11°♄36'03		max. Earth dist.	2151 Sep 03 14:30	16°♄39'17	1.37655 AU
desc. node	2150 Oct 01 01:19	20°♄39'44		evening rise	2151 Sep 07 08:51	23°♄29'28	
	2150 Oct 07 01:13	0°♄			2151 Sep 11 02:37	0°♄	
	2150 Oct 29 16:01	0°♄		desc. node	2151 Sep 17 22:21	11°♄10'53	
evening max el	2150 Oct 30 15:12	0°♄58'56	23°59'47		2151 Sep 30 19:11	0°♄	
retrograde	2150 Nov 10 14:26	7°♄25'44		evening max el	2151 Oct 13 03:13	14°♄38'05	25°15'49
evening set	2150 Nov 15 20:06	5°♄14'47		retrograde	2151 Oct 25 02:13	21°♄32'21	
asc. node	2150 Nov 19 19:46	0°♄46'47		evening set	2151 Oct 30 22:09	19°♄05'41	
	2150 Nov 20 09:48	30°♄		min. Earth dist.	2151 Nov 04 09:08	14°♄07'34	0.67206 AU
min. Earth dist.	2150 Nov 20 15:08	29°♄42'00	0.67696 AU	inferior conj	2151 Nov 05 10:58	12°♄43'36	-0°25'42
inferior conj	2150 Nov 21 06:11	28°♄51'01	0°29'28	minimum elong	2151 Nov 05 11:37	12°♄41'29	0°25'25
minimum elong	2150 Nov 21 05:29	28°♄53'24	0°29'10	asc. node	2151 Nov 06 16:48	11°♄07'56	
morning rise	2150 Nov 26 14:51	22°♄45'51		morning rise	2151 Nov 11 01:17	6°♄45'45	
direct	2150 Nov 30 13:43	21°♄17'14		direct	2151 Nov 14 12:05	5°♄37'06	
morning max el	2150 Dec 08 15:04	25°♄55'56	20°37'22	morning max el	2151 Nov 21 18:13	9°♄42'56	19°32'09
	2150 Dec 12 06:18	0°♄		greatest brilliancy	2151 Dec 05 02:18	27°♄31'44	-0.7m
desc. node	2150 Dec 28 00:34	22°♄05'31			2151 Dec 06 17:41	0°♄	
	2151 Jan 02 05:55	0°♄		desc. node	2151 Dec 14 21:35	12°♄30'13	
morning set	2151 Jan 06 12:31	6°♄35'22		morning set	2151 Dec 16 10:10	14°♄51'35	
max. Earth dist.	2151 Jan 15 15:59	21°♄04'09	1.43179 AU		2151 Dec 26 03:17	0°♄	
	2151 Jan 21 02:44	0°♄		max. Earth dist.	2151 Dec 29 05:06	4°♄51'09	1.44484 AU
superior conj	2151 Jan 22 04:51	1°♄48'53	-2°02'51	superior conj	2152 Jan 02 03:59	11°♄09'06	-1°44'06
minimum elong	2151 Jan 22 02:00	1°♄36'56	2°02'45	minimum elong	2152 Jan 01 20:02	10°♄37'15	1°43'28
evening rise	2151 Feb 03 08:30	22°♄46'41			2152 Jan 13 16:34	0°♄	
	2151 Feb 07 10:51	0°♄		evening rise	2152 Jan 16 03:51	4°♄07'56	
asc. node	2151 Feb 15 19:05	13°♄44'28			2152 Feb 01 11:10	0°♄	
evening max el	2151 Feb 20 12:57	19°♄39'31	18°07'38	asc. node	2152 Feb 02 16:07	1°♄28'10	
retrograde	2151 Feb 27 01:29	23°♄03'06		evening max el	2152 Feb 04 01:28	2°♄58'55	18°20'45
evening set	2151 Mar 01 20:00	22°♄25'43		retrograde	2152 Feb 10 13:00	6°♄29'35	
inferior conj	2151 Mar 08 05:07	17°♄19'18	3°38'35	evening set	2152 Feb 13 12:44	5°♄41'16	
minimum elong	2151 Mar 08 06:18	17°♄16'17	3°38'30	inferior conj	2152 Feb 19 11:47	0°♄15'42	3°42'09
min. Earth dist.	2151 Mar 11 04:05	14°♄19'55	0.61982 AU	minimum elong	2152 Feb 19 11:09	0°♄17'29	3°42'08
morning rise	2151 Mar 14 15:14	11°♄21'45			2152 Feb 19 17:17	30°♄	
direct	2151 Mar 21 12:45	8°♄52'53		min. Earth dist.	2152 Feb 21 20:05	27°♄36'05	0.63898 AU
desc. node	2151 Mar 25 23:47	9°♄48'38		morning rise	2152 Feb 25 08:50	24°♄09'21	
morning max el	2151 Apr 04 15:11	16°♄48'05	27°49'48	direct	2152 Mar 03 06:21	21°♄21'56	
	2151 Apr 15 13:14	0°♄		desc. node	2152 Mar 11 20:48	24°♄48'07	
	2151 May 03 15:44	0°♄		morning max el	2152 Mar 16 23:43	29°♄16'26	27°35'18
morning set	2151 May 08 00:52	8°♄39'43			2152 Mar 17 16:51	0°♄	
max. Earth dist.	2151 May 13 18:56	20°♄46'09	1.32485 AU		2152 Apr 08 10:31	0°♄	
asc. node	2151 May 14 18:21	22°♄53'00		morning set	2152 Apr 20 20:49	22°♄39'20	
					2152 Apr 24 11:54	0°♄	
superior conj	2151 May 15 11:27	24°♄25'58	0°07'32	max. Earth dist.	2152 Apr 25 21:51	2°♄56'31	1.33202 AU
minimum elong	2151 May 15 11:06	24°♄24'03	0°07'27				
behind sun begin	2151 May 15 06:32	23°♄59'11		superior conj	2152 Apr 28 18:00	8°♄57'13	-0°19'48
behind sun end	2151 May 15 15:40	24°♄48'57		minimum elong	2152 Apr 28 18:59	9°♄02'28	0°19'35
	2151 May 18 00:39	0°♄		asc. node	2152 Apr 30 15:24	13°♄00'43	
evening rise	2151 May 22 09:34	9°♄26'39		evening rise	2152 May 05 21:12	24°♄14'14	
	2151 Jun 02 00:18	0°♄			2152 May 08 15:52	0°♄	
evening max el	2151 Jun 16 11:19	19°♄30'25	24°23'04	evening max el	2152 May 28 01:26	29°♄58'37	22°46'57
desc. node	2151 Jun 21 23:03	23°♄51'58			2152 May 28 02:00	0°♄	
retrograde	2151 Jun 30 08:11	26°♄30'36		desc. node	2152 Jun 07 20:05	6°♄20'26	
evening set	2151 Jul 05 03:00	25°♄39'27		retrograde	2152 Jun 10 07:47	6°♄34'35	
min. Earth dist.	2151 Jul 10 22:12	22°♄44'25	0.56729 AU	evening set	2152 Jun 13 14:57	6°♄10'40	
inferior conj	2151 Jul 13 14:45	21°♄02'20	-4°49'11	min. Earth dist.	2152 Jun 21 09:49	2°♄44'58	0.55394 AU
minimum elong	2151 Jul 13 10:59	21°♄08'20	4°48'50	inferior conj	2152 Jun 22 19:53	1°♄56'04	-3°54'50
morning rise	2151 Jul 21 21:39	16°♄59'43		minimum elong	2152 Jun 22 12:06	2°♄07'15	3°52'59
direct	2151 Jul 24 13:32	16°♄40'36			2152 Jun 26 08:23	30°♄	
morning max el	2151 Aug 03 01:43	21°♄05'46	19°33'32	morning rise	2152 Jul 01 11:38	28°♄04'06	
	2151 Aug 10 04:11	0°♄		direct	2152 Jul 04 08:51	27°♄44'45	
asc. node	2151 Aug 10 17:34	0°♄52'33			2152 Jul 11 17:37	0°♄	
morning set	2151 Aug 20 12:36	18°♄58'29		morning max el	2152 Jul 15 11:57	2°♄54'20	20°49'23
	2151 Aug 25 23:57	0°♄		asc. node	2152 Jul 27 14:37	19°♄38'15	
					2152 Aug 02 00:26	0°♄	
superior conj	2151 Aug 28 12:23	5°♄00'12	1°44'56	morning set	2152 Aug 03 19:29	3°♄39'19	
minimum elong	2151 Aug 28 13:09	5°♄03'59	1°44'55				




































































































































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minimum elong	2152 Aug 11 06:23	19°Ω06'26	1°44'26	minimum elong	2153 Jul 26 08:02	3°Ω35'11	1°37'07
max. Earth dist.	2152 Aug 15 22:28	28°Ω29'17	1.35806 AU	max. Earth dist.	2153 Jul 29 15:05	10°Ω28'33	1.34305 AU
	2152 Aug 16 17:02	0°൬		evening rise	2153 Aug 03 08:18	19°Ω57'00	
evening rise	2152 Aug 20 00:50	6°൬20'22			2153 Aug 08 16:34	0°൬	
	2152 Sep 02 20:55	0°Ω		desc. node	2153 Aug 21 16:26	21°൬21'07	
desc. node	2152 Sep 03 19:24	1°Ω26'58			2153 Aug 27 20:50	0°Ω	
evening max el	2152 Sep 24 15:12	28°Ω17'03	26°20'29	evening max el	2153 Sep 07 03:32	11°Ω49'09	27°06'06
	2152 Sep 26 11:43	0°൬		retrograde	2153 Sep 20 10:42	19°Ω07'03	
retrograde	2152 Oct 07 09:11	5°൬28'28		evening set	2153 Sep 27 07:49	16°Ω23'35	
evening set	2152 Oct 13 18:50	2°൬49'57		min. Earth dist.	2153 Oct 01 04:46	12°Ω37'31	0.65193 AU
	2152 Oct 16 15:02	30°RΩ		inferior conj	2153 Oct 03 06:09	10°Ω18'14	-2°22'15
min. Earth dist.	2152 Oct 17 22:27	28°Ω27'46	0.66373 AU	minimum elong	2153 Oct 03 09:58	10°Ω07'28	2°20'49
inferior conj	2152 Oct 19 11:39	26°Ω33'58	-1°23'34	morning rise	2153 Oct 09 12:56	4°Ω43'17	
minimum elong	2152 Oct 19 13:53	26°Ω27'10	1°22'39	asc. node	2153 Oct 10 10:52	4°Ω21'06	
asc. node	2152 Oct 23 13:50	22°Ω05'14		direct	2153 Oct 12 06:15	4°Ω03'26	
morning rise	2152 Oct 25 09:26	20°Ω46'03		morning max el	2153 Oct 18 18:38	7°Ω33'55	18°08'49
direct	2152 Oct 28 10:16	19°Ω53'46			2153 Nov 03 01:28	0°൬	
morning max el	2152 Nov 04 04:10	23°Ω37'20	18°42'14	morning set	2153 Nov 06 02:10	5°൬00'14	
	2152 Nov 09 09:52	0°൬		desc. node	2153 Nov 17 15:42	23°൬49'24	
morning set	2152 Nov 25 03:32	24°൬11'56					
	2152 Nov 28 19:29	0°𐌶		superior conj	2153 Nov 20 12:29	28°൬23'21	-0°19'12
desc. node	2152 Nov 30 18:38	3°𐌶06'04		minimum elong	2153 Nov 20 10:03	28°൬13'40	0°18'51
					2153 Nov 21 12:53	0°𐌶	
superior conj	2152 Dec 11 08:09	19°𐌶42'28	-1°06'58	max. Earth dist.	2153 Nov 23 17:25	3°𐌶27'22	1.45005 AU
minimum elong	2152 Dec 11 00:07	19°𐌶10'58	1°06'00	evening rise	2153 Dec 06 22:15	24°𐌶03'15	
max. Earth dist.	2152 Dec 10 22:26	19°𐌶04'18	1.45113 AU		2153 Dec 10 18:21	0°𐌶	
	2152 Dec 17 21:02	0°𐌶		greatest brilliancy	2153 Dec 19 17:22	13°𐌶43'17	-0.7m
evening rise	2152 Dec 27 00:04	14°𐌶31'11			2153 Dec 31 21:22	0°𐌶	
greatest brilliancy	2153 Jan 03 13:09	26°𐌶36'32	-0.9m	evening max el	2153 Dec 31 19:14	29°𐌶54'31	19°39'38
	2153 Jan 05 16:30	0°𐌶		asc. node	2154 Jan 06 10:11	3°𐌶53'54	
evening max el	2153 Jan 17 12:13	16°𐌶24'54	18°51'55	retrograde	2154 Jan 08 03:56	4°𐌶10'32	
asc. node	2153 Jan 19 13:09	18°𐌶15'59		evening set	2154 Jan 11 17:02	2°𐌶56'58	
retrograde	2153 Jan 24 06:52	20°𐌶13'41			2154 Jan 14 19:29	30°R𐌶	
evening set	2153 Jan 27 12:34	19°𐌶13'25		inferior conj	2154 Jan 17 04:39	26°𐌶59'27	3°04'11
inferior conj	2153 Feb 02 04:40	13°𐌶30'41	3°29'17	minimum elong	2154 Jan 17 02:08	27°𐌶07'45	3°03'37
minimum elong	2153 Feb 02 02:47	13°𐌶36'32	3°29'02	min. Earth dist.	2154 Jan 18 07:00	25°𐌶32'44	0.66638 AU
min. Earth dist.	2153 Feb 03 21:31	11°𐌶24'15	0.65469 AU	morning rise	2154 Jan 22 11:01	20°𐌶46'33	
morning rise	2153 Feb 07 16:36	7°𐌶19'48		direct	2154 Jan 28 13:32	18°𐌶03'26	
direct	2153 Feb 14 06:59	4°𐌶28'09		morning max el	2154 Feb 09 18:36	25°𐌶19'31	25°37'55
desc. node	2153 Feb 26 17:50	11°𐌶31'48		desc. node	2154 Feb 13 14:53	29°𐌶30'32	
morning max el	2153 Feb 27 09:32	12°𐌶10'43	26°48'34		2154 Feb 14 01:00	0°𐌶	
	2153 Mar 13 16:28	0°𐌶			2154 Mar 07 04:33	0°𐌶	
	2153 Apr 01 00:33	0°𐌶		morning set	2154 Mar 18 00:43	18°𐌶39'24	
morning set	2153 Apr 04 06:14	6°𐌶03'35		max. Earth dist.	2154 Mar 21 19:03	25°𐌶40'10	1.35993 AU
max. Earth dist.	2153 Apr 08 14:20	14°𐌶32'51	1.34366 AU		2154 Mar 24 01:07	0°𐌶	
superior conj	2153 Apr 12 18:59	23°𐌶07'04	-0°47'53	superior conj	2154 Mar 27 11:46	6°𐌶47'58	-1°15'10
minimum elong	2153 Apr 12 21:25	23°𐌶19'42	0°47'23	minimum elong	2154 Mar 27 15:29	7°𐌶06'35	1°14'34
	2153 Apr 16 01:49	0°𐌶		asc. node	2154 Apr 04 09:32	22°𐌶54'11	
asc. node	2153 Apr 17 12:29	3°𐌶02'39		evening rise	2154 Apr 04 12:44	23°𐌶10'30	
evening rise	2153 Apr 20 06:57	8°𐌶51'02			2154 Apr 07 22:37	0°𐌶	
	2153 May 01 13:58	0°𐌶		evening max el	2154 Apr 22 06:50	21°𐌶59'33	19°59'46
evening max el	2153 May 09 22:29	10°𐌶41'41	21°16'02	retrograde	2154 May 02 12:53	26°𐌶57'00	
retrograde	2153 May 21 21:56	16°𐌶32'47		evening set	2154 May 04 13:17	26°𐌶46'20	
evening set	2153 May 24 04:57	16°𐌶20'40		desc. node	2154 May 12 14:06	23°𐌶19'06	
desc. node	2153 May 25 17:05	16°𐌶00'15		inferior conj	2154 May 13 11:45	22°𐌶46'36	-0°15'46
inferior conj	2153 Jun 02 14:16	12°𐌶21'37	-2°15'26	minimum elong	2154 May 13 11:01	22°𐌶47'42	0°15'31
minimum elong	2153 Jun 02 08:05	12°𐌶30'19	2°13'20	transit middle	2154 May 13 11:01	22°𐌶47'42	0°15'31
min. Earth dist.	2153 Jun 02 22:04	12°𐌶10'40	0.54894 AU	transit begin	2154 May 13 10:06	22°𐌶49'05	
morning rise	2153 Jun 11 11:31	8°𐌶22'23		transit end	2154 May 13 11:56	22°𐌶46'19	
direct	2153 Jun 14 18:54	7°𐌶58'39		min. Earth dist.	2154 May 15 11:24	21°𐌶34'48	0.55368 AU
morning max el	2153 Jun 27 11:17	14°𐌶00'16	22°22'35	morning rise	2154 May 22 06:46	18°𐌶22'05	
	2153 Jul 09 14:00	0°𐌶		direct	2154 May 26 08:54	17°𐌶45'26	
asc. node	2153 Jul 14 11:42	8°𐌶54'37		morning max el	2154 Jun 09 03:06	24°𐌶33'44	24°04'38
morning set	2153 Jul 19 05:42	18°𐌶30'58			2154 Jun 14 03:02	0°𐌶	
	2153 Jul 24 15:31	0°Ω		asc. node	2154 Jul 01 08:46	28°𐌶32'45	

	2154 Jul 02 01:47	0°☿			2155 Jun 08 19:10	0°♊	
morning set	2154 Jul 03 17:26	3°☿26'54		morning set	2155 Jun 18 05:00	18°♊21'54	
				asc. node	2155 Jun 18 05:50	18°♊26'17	
superior conj	2154 Jul 10 17:39	18°☿33'38	1°24'36		2155 Jun 23 14:08	0°☿	
minimum elong	2154 Jul 10 15:18	18°☿20'55	1°24'18				
max. Earth dist.	2154 Jul 12 16:57	22°☿48'15	1.33203 AU	superior conj	2155 Jun 25 04:20	3°☿29'32	1°07'25
	2154 Jul 16 02:52	0°♌		minimum elong	2155 Jun 25 02:00	3°☿16'43	1°07'01
evening rise	2154 Jul 18 02:58	4°♌06'04		max. Earth dist.	2155 Jun 26 01:36	5°☿25'59	1.32500 AU
	2154 Aug 01 09:51	0°♍		evening rise	2155 Jul 02 05:31	18°☿37'26	
desc. node	2154 Aug 08 13:27	10°♍43'07			2155 Jul 07 22:54	0°♌	
evening max el	2154 Aug 20 14:44	25°♍01'32	27°25'44	desc. node	2155 Jul 26 10:27	29°♌19'35	
	2154 Aug 26 23:04	0°♎			2155 Jul 26 23:19	0°♍	
retrograde	2154 Sep 03 05:56	2°♎18'55		evening max el	2155 Aug 02 22:14	7°♍40'19	27°14'01
	2154 Sep 09 23:03	30°♎		retrograde	2155 Aug 16 18:18	14°♍55'03	
evening set	2154 Sep 10 10:07	29°♎40'19		evening set	2155 Aug 23 21:54	12°♍33'40	
min. Earth dist.	2154 Sep 14 01:54	26°♎27'46	0.63665 AU	min. Earth dist.	2155 Aug 27 12:24	9°♍46'51	0.61821 AU
inferior conj	2154 Sep 16 15:51	23°♎49'54	-3°19'05	inferior conj	2155 Aug 30 13:41	7°♍01'24	-4°09'39
minimum elong	2154 Sep 16 20:55	23°♎36'59	3°17'29	minimum elong	2155 Aug 30 19:00	6°♍49'19	4°08'26
morning rise	2154 Sep 23 08:53	18°♎31'20		morning rise	2155 Sep 06 17:41	2°♎02'50	
direct	2154 Sep 25 21:16	18°♎00'22		direct	2155 Sep 09 03:49	1°♎37'47	
asc. node	2154 Sep 27 07:56	18°♎10'46		asc. node	2155 Sep 14 05:00	3°♎30'22	
morning max el	2154 Oct 02 10:50	21°♎25'56	17°52'46	morning max el	2155 Sep 16 01:50	5°♎06'40	17°55'04
	2154 Oct 08 23:35	0°♏		morning set	2155 Oct 01 23:48	0°♏05'37	
morning set	2154 Oct 19 03:01	17°♏04'27			2155 Oct 01 22:34	0°♏	
	2154 Oct 26 16:07	0°♐					
superior conj	2154 Oct 31 12:16	8°♐03'33	0°27'06	superior conj	2155 Oct 12 15:08	19°♏03'48	1°03'39
minimum elong	2154 Oct 31 15:05	8°♐15'08	0°26'42	minimum elong	2155 Oct 12 19:40	19°♏23'24	1°03'05
desc. node	2154 Nov 04 12:45	14°♐36'15			2155 Oct 19 02:32	0°♐	
max. Earth dist.	2154 Nov 06 11:11	17°♐42'31	1.44177 AU	max. Earth dist.	2155 Oct 20 00:49	1°♐31'40	1.42735 AU
	2154 Nov 14 06:44	0°♑		desc. node	2155 Oct 22 09:45	5°♐23'23	
evening rise	2154 Nov 16 07:29	3°♑08'19		evening rise	2155 Oct 26 20:00	12°♐26'37	
	2154 Dec 04 07:31	0°♒			2155 Nov 07 08:40	0°♑	
evening max el	2154 Dec 14 21:00	13°♒25'23	20°41'42	evening max el	2155 Nov 27 17:04	26°♑56'30	21°54'39
retrograde	2154 Dec 23 01:50	18°♒16'04			2155 Dec 01 02:47	0°♒	
asc. node	2154 Dec 24 07:12	18°♒07'42		retrograde	2155 Dec 06 22:36	2°♒26'09	
evening set	2154 Dec 27 00:01	16°♒47'40		evening set	2155 Dec 11 07:43	0°♒41'39	
inferior conj	2155 Jan 01 09:11	10°♒38'07	2°29'40	asc. node	2155 Dec 11 04:14	0°♒48'34	
minimum elong	2155 Jan 01 06:36	10°♒46'57	2°28'53		2155 Dec 12 02:44	30°♒♑	
min. Earth dist.	2155 Jan 01 22:31	9°♒52'35	0.67399 AU	inferior conj	2155 Dec 16 16:06	24°♑23'22	1°47'37
morning rise	2155 Jan 06 13:00	4°♒25'02		minimum elong	2155 Dec 16 13:56	24°♑30'54	1°46'49
direct	2155 Jan 12 01:06	1°♒59'14		min. Earth dist.	2155 Dec 16 17:48	24°♑17'29	0.67783 AU
morning max el	2155 Jan 23 02:59	8°♒35'37	24°13'24	morning rise	2155 Dec 21 20:00	18°♑11'41	
desc. node	2155 Jan 31 11:57	18°♒22'35		direct	2155 Dec 26 16:57	16°♑07'49	
	2155 Feb 08 22:42	0°♓		morning max el	2156 Jan 05 12:59	21°♑57'04	22°44'51
morning set	2155 Feb 27 22:36	0°♈11'33			2156 Jan 12 11:48	0°♒	
	2155 Feb 27 19:56	0°♈		desc. node	2156 Jan 18 08:58	7°♒52'01	
max. Earth dist.	2155 Mar 03 15:46	6°♈45'22	1.37991 AU		2156 Feb 02 06:30	0°♓	
				morning set	2156 Feb 08 17:39	10°♓23'46	
superior conj	2155 Mar 10 16:55	19°♈51'03	-1°39'26	max. Earth dist.	2156 Feb 13 11:34	18°♓21'42	1.40144 AU
minimum elong	2155 Mar 10 21:15	20°♈11'48	1°38'57		2156 Feb 20 02:34	0°♈	
	2155 Mar 15 21:56	0°♉					
evening rise	2155 Mar 19 12:09	7°♉06'11		superior conj	2156 Feb 21 05:58	2°♈04'05	-1°57'35
asc. node	2155 Mar 22 06:34	12°♉30'45		minimum elong	2156 Feb 21 09:25	2°♈19'49	1°57'22
	2155 Apr 01 15:41	0°♊		evening rise	2156 Mar 02 02:03	20°♈29'15	
evening max el	2155 Apr 05 02:28	3°♊57'07	19°02'34		2156 Mar 07 04:04	0°♉	
retrograde	2155 Apr 13 17:41	8°♊08'31		asc. node	2156 Mar 08 03:35	1°♉46'03	
evening set	2155 Apr 15 21:29	7°♊53'53		evening max el	2156 Mar 18 06:52	16°♉28'27	18°25'36
inferior conj	2155 Apr 24 01:08	3°♊39'52	1°30'25	retrograde	2156 Mar 25 17:29	20°♉08'55	
minimum elong	2155 Apr 24 04:25	3°♊34'09	1°29'22	evening set	2156 Mar 28 03:11	19°♉47'00	
min. Earth dist.	2155 Apr 27 02:49	1°♊32'42	0.56708 AU	inferior conj	2156 Apr 04 11:44	15°♉13'19	2°44'56
desc. node	2155 Apr 29 11:07	0°♊05'02		minimum elong	2156 Apr 04 15:35	15°♉05'28	2°44'01
	2155 Apr 29 14:40	30°♊♉		min. Earth dist.	2156 Apr 07 22:17	12°♉26'35	0.58626 AU
morning rise	2155 May 02 08:18	28°♉40'52		morning rise	2156 Apr 12 01:08	9°♉43'40	
direct	2155 May 07 11:02	27°♉39'17		desc. node	2156 Apr 15 08:09	8°♉27'24	
	2155 May 15 07:03	0°♋		direct	2156 Apr 18 03:04	8°♉06'57	
morning max el	2155 May 21 17:38	5°♋00'54	25°41'34	morning max el	2156 May 02 12:17	15°♉49'20	26°57'45
					2156 May 14 01:03	0°♋	

	2156 May 31 02:06	0°♊		morning set	2157 May 16 21:00	17°♎45'39	
morning set	2156 Jun 01 14:48	3°♊10'12		asc. node	2157 May 21 23:54	28°♎37'58	
asc. node	2156 Jun 04 02:52	8°♊29'32			2157 May 22 14:59	0°♊	
				max. Earth dist.	2157 May 23 00:56	0°♊54'19	1.32256 AU
superior conj	2156 Jun 08 16:06	18°♊26'22	0°46'28				
minimum elong	2156 Jun 08 14:14	18°♊16'04	0°46'06	superior conj	2157 May 24 03:15	3°♊18'18	0°22'27
max. Earth dist.	2156 Jun 08 13:31	18°♊12'10	1.32183 AU	minimum elong	2157 May 24 02:15	3°♊12'47	0°22'14
	2156 Jun 13 23:09	0°♎		evening rise	2157 May 31 00:00	18°♊14'01	
evening rise	2156 Jun 15 13:15	3°♎22'29			2157 Jun 05 18:57	0°♎	
	2156 Jun 29 19:43	0°♏			2157 Jun 26 00:08	0°♏	
desc. node	2156 Jul 12 07:27	16°♏51'49		evening max el	2157 Jun 26 17:41	0°♏42'52	25°15'00
evening max el	2156 Jul 14 23:30	19°♏34'45	26°29'10	desc. node	2157 Jun 29 04:28	2°♏53'17	
retrograde	2156 Jul 28 22:59	26°♏47'04		retrograde	2157 Jul 10 17:49	7°♏50'07	
evening set	2156 Aug 04 14:34	24°♏56'02		evening set	2157 Jul 16 07:55	6°♏37'52	
min. Earth dist.	2156 Aug 08 12:46	22°♏20'09	0.59771 AU	min. Earth dist.	2157 Jul 21 05:33	3°♏54'16	0.57748 AU
inferior conj	2156 Aug 11 20:08	19°♏43'46	-4°46'44	inferior conj	2157 Jul 24 07:49	1°♏47'11	-4°59'04
minimum elong	2156 Aug 11 23:48	19°♏36'30	4°46'19	minimum elong	2157 Jul 24 07:15	1°♏48'11	4°59'03
morning rise	2156 Aug 19 11:06	15°♏07'44			2157 Jul 27 00:37	30°♎♎	
direct	2156 Aug 21 21:35	14°♏46'20		morning rise	2157 Aug 01 09:07	27°♎33'23	
morning max el	2156 Aug 29 12:31	18°♏28'07	18°16'53	direct	2157 Aug 03 22:20	27°♎13'54	
asc. node	2156 Aug 31 02:03	20°♏06'34			2157 Aug 11 02:22	0°♏	
	2156 Sep 06 21:58	0°♐		morning max el	2157 Aug 12 15:36	1°♏20'01	18°59'25
morning set	2156 Sep 14 10:58	13°♐48'13		asc. node	2157 Aug 17 23:07	7°♏43'29	
	2156 Sep 23 01:51	0°♑		morning set	2157 Aug 29 08:11	27°♏59'47	
					2157 Aug 30 08:32	0°♐	
superior conj	2156 Sep 23 18:46	1°♑17'22	1°28'10				
minimum elong	2156 Sep 23 22:27	1°♑34'04	1°27'50	superior conj	2157 Sep 06 17:33	14°♐27'16	1°41'34
max. Earth dist.	2156 Oct 01 08:45	14°♑40'13	1.40863 AU	minimum elong	2157 Sep 06 19:24	14°♐36'06	1°41'29
evening rise	2156 Oct 06 02:41	22°♑36'22		max. Earth dist.	2157 Sep 13 12:36	27°♐04'46	1.38812 AU
desc. node	2156 Oct 08 06:46	26°♑07'48			2157 Sep 15 03:58	0°♑	
	2156 Oct 10 17:04	0°♒		evening rise	2157 Sep 17 09:17	3°♑52'34	
	2156 Oct 31 09:38	0°♓		desc. node	2157 Sep 25 03:48	16°♑45'02	
evening max el	2156 Nov 09 08:25	10°♓30'08	23°13'47		2157 Oct 03 20:24	0°♒	
retrograde	2156 Nov 19 16:50	16°♓38'13		evening max el	2157 Oct 22 21:06	24°♒07'34	24°33'04
evening set	2156 Nov 24 14:31	14°♓36'54			2157 Oct 30 18:19	0°♓	
asc. node	2156 Nov 27 01:15	12°♓05'34		retrograde	2157 Nov 03 07:15	0°♓47'46	
inferior conj	2156 Nov 29 23:35	8°♓13'45	0°59'29		2157 Nov 06 13:44	30°♒♒	
minimum elong	2156 Nov 29 22:15	8°♓18'22	0°58'56	evening set	2157 Nov 08 18:48	28°♒30'04	
min. Earth dist.	2156 Nov 29 14:33	8°♓44'50	0.67821 AU	min. Earth dist.	2157 Nov 13 10:21	23°♒11'33	0.67525 AU
morning rise	2156 Dec 05 05:54	2°♓05'24		asc. node	2157 Nov 13 22:18	22°♒31'40	
direct	2156 Dec 09 12:22	0°♓24'19		inferior conj	2157 Nov 14 05:53	22°♒06'19	0°06'32
morning max el	2156 Dec 18 04:04	5°♓27'13	21°20'55	minimum elong	2157 Nov 14 05:43	22°♒06'52	0°06'27
desc. node	2157 Jan 04 05:59	27°♓48'46		transit middle	2157 Nov 14 05:43	22°♒06'52	0°06'27
	2157 Jan 05 17:39	0°♔		transit begin	2157 Nov 14 03:12	22°♒15'17	
morning set	2157 Jan 18 07:56	19°♔15'06		transit end	2157 Nov 14 08:14	21°♒58'27	
	2157 Jan 25 00:25	0°♕		morning rise	2157 Nov 19 16:42	16°♒03'39	
max. Earth dist.	2157 Jan 25 12:31	0°♕49'38	1.42176 AU	direct	2157 Nov 23 10:09	14°♒43'53	
				morning max el	2157 Dec 01 02:34	19°♒07'39	20°07'47
superior conj	2157 Feb 01 21:47	13°♕15'20	-2°05'12		2157 Dec 09 20:33	0°♓	
minimum elong	2157 Feb 01 21:57	13°♕16'00	2°05'12	desc. node	2157 Dec 22 03:02	18°♓04'55	
	2157 Feb 11 08:35	0°♖		morning set	2157 Dec 28 04:37	27°♓22'45	
evening rise	2157 Feb 13 02:47	3°♖11'19			2157 Dec 29 21:13	0°♔	
asc. node	2157 Feb 23 00:35	20°♖33'09		max. Earth dist.	2158 Jan 07 21:11	14°♔10'22	1.43811 AU
evening max el	2157 Mar 01 16:53	29°♖25'14	18°08'38				
	2157 Mar 02 07:36	0°♗		superior conj	2158 Jan 13 11:59	23°♔15'56	-1°57'16
retrograde	2157 Mar 08 10:25	2°♗50'40		minimum elong	2158 Jan 13 06:43	22°♔54'23	1°57'00
evening set	2157 Mar 11 01:51	2°♗19'22			2158 Jan 17 13:40	0°♕	
	2157 Mar 14 20:40	30°♒♖		evening rise	2158 Jan 26 10:01	15°♕03'54	
inferior conj	2157 Mar 17 18:26	27°♖25'01	3°26'49		2158 Feb 04 03:46	0°♖	
minimum elong	2157 Mar 17 20:46	27°♖19'30	3°26'31	asc. node	2158 Feb 09 21:36	8°♖43'17	
min. Earth dist.	2157 Mar 21 00:14	24°♖22'51	0.60773 AU	evening max el	2158 Feb 13 05:23	12°♖39'01	18°11'00
morning rise	2157 Mar 24 13:45	21°♖34'59		retrograde	2158 Feb 19 16:21	16°♖03'50	
direct	2157 Mar 31 07:06	19°♖22'24		evening set	2158 Feb 22 13:05	15°♖21'55	
desc. node	2157 Apr 02 05:10	19°♖32'39		inferior conj	2158 Feb 28 17:31	10°♖07'26	3°42'24
morning max el	2157 Apr 14 13:06	27°♖15'44	27°41'23	minimum elong	2158 Feb 28 17:53	10°♖06'28	3°42'23
	2157 Apr 17 03:48	0°♗		min. Earth dist.	2158 Mar 03 10:41	7°♖14'08	0.62838 AU
	2157 May 07 15:55	0°♘		morning rise	2158 Mar 06 21:37	4°♖05'41	

direct	2158 Mar 13 20:23	1° H 26'51		morning rise	2159 Feb 17 21:42	17° \approx 04'04	
desc. node	2158 Mar 20 02:12	3° H 16'17		direct	2159 Feb 24 17:00	14° \approx 13'16	
morning max el	2158 Mar 27 19:15	9° H 22'51	27°47'53	desc. node	2159 Mar 06 23:16	19° \approx 04'21	
	2158 Apr 12 19:45	0° Y		morning max el	2159 Mar 10 04:31	22° \approx 03'19	27°18'57
	2158 Apr 29 21:15	0° B			2159 Mar 17 03:57	0° H	
morning set	2158 Apr 30 21:28	2° B 01'15			2159 Apr 06 00:25	0° Y	
max. Earth dist.	2158 May 06 08:05	13° B 20'11	1.32734 AU	morning set	2159 Apr 14 13:23	15° Y 47'02	
				max. Earth dist.	2159 Apr 19 07:02	25° Y 17'11	1.33645 AU
					2159 Apr 21 13:26	0° B	
superior conj	2158 May 08 12:05	17° B 59'37	-0°03'55				
minimum elong	2158 May 08 12:16	18° B 00'38	0°03'52				
behind sun begin	2158 May 08 07:11	17° B 33'08		superior conj	2159 Apr 22 16:33	2° B 22'45	-0°31'41
behind sun end	2158 May 08 17:21	18° B 28'09		minimum elong	2159 Apr 22 18:08	2° B 31'11	0°31'21
asc. node	2158 May 08 20:58	18° B 47'42		asc. node	2159 Apr 25 17:59	8° B 53'23	
	2158 May 14 01:05	0° II		evening rise	2159 Apr 29 22:58	17° B 49'42	
evening rise	2158 May 15 11:53	3° II 05'38			2159 May 06 00:23	0° II	
	2158 May 30 03:15	0° E		evening max el	2159 May 20 23:57	21° II 49'57	22°06'54
evening max el	2158 Jun 08 07:40	11° E 18'59	23°42'32	retrograde	2159 Jun 02 18:37	28° II 08'25	
desc. node	2158 Jun 16 01:29	16° E 50'28		desc. node	2159 Jun 02 22:31	28° II 08'21	
retrograde	2158 Jun 22 00:18	18° E 10'47		evening set	2159 Jun 05 13:41	27° II 51'04	
evening set	2158 Jun 26 03:22	17° E 33'22		min. Earth dist.	2159 Jun 14 05:29	24° II 08'46	0.55074 AU
min. Earth dist.	2158 Jul 02 18:08	14° E 26'42	0.56074 AU	inferior conj	2159 Jun 14 22:31	23° II 44'51	-3°17'12
inferior conj	2158 Jul 04 23:26	13° E 06'20	-4°32'17	minimum elong	2159 Jun 14 14:38	23° II 55'55	3°14'56
minimum elong	2158 Jul 04 17:29	13° E 15'21	4°31'19	morning rise	2159 Jun 23 17:17	19° II 52'30	
morning rise	2158 Jul 13 10:12	9° E 09'34		direct	2159 Jun 26 18:17	19° II 31'51	
direct	2158 Jul 16 04:10	8° E 50'31		morning max el	2159 Jul 08 13:37	25° II 02'43	21°27'16
morning max el	2158 Jul 26 08:23	13° E 33'36	20°03'18		2159 Jul 13 02:23	0° E	
asc. node	2158 Aug 04 20:11	26° E 07'48		asc. node	2159 Jul 22 17:15	15° E 07'31	
	2158 Aug 07 01:18	0° O		morning set	2159 Jul 28 20:50	27° E 18'18	
morning set	2158 Aug 13 12:17	12° O 32'14			2159 Jul 30 03:53	0° O	
superior conj	2158 Aug 21 06:18	28° O 19'10	1°45'38	superior conj	2159 Aug 05 04:48	12° O 40'29	1°42'09
minimum elong	2158 Aug 21 06:20	28° O 19'24	1°45'38	minimum elong	2159 Aug 05 03:30	12° O 33'40	1°42'04
	2158 Aug 22 02:28	0° np		max. Earth dist.	2159 Aug 09 05:24	20° O 54'30	1.35124 AU
max. Earth dist.	2158 Aug 26 17:44	9° np 01'45	1.36837 AU	evening rise	2159 Aug 13 13:28	29° O 23'34	
evening rise	2158 Aug 30 14:22	16° np 12'12			2159 Aug 13 21:08	0° np	
	2158 Sep 07 13:34	0° u		desc. node	2159 Aug 29 21:53	27° np 18'04	
desc. node	2158 Sep 12 00:50	7° u 10'29			2159 Aug 31 17:13	0° u	
	2158 Sep 28 08:01	0° m		evening max el	2159 Sep 17 21:31	21° u 25'15	26°42'40
evening max el	2158 Oct 05 09:14	7° m 48'01	25°45'14	retrograde	2159 Sep 30 21:26	28° u 39'45	
retrograde	2158 Oct 17 16:57	14° m 50'18		evening set	2159 Oct 07 12:30	25° u 58'06	
evening set	2158 Oct 23 18:48	12° m 18'17		min. Earth dist.	2159 Oct 11 13:13	21° u 51'34	0.65917 AU
min. Earth dist.	2158 Oct 28 02:42	7° m 35'08	0.66895 AU	inferior conj	2159 Oct 13 07:30	19° u 46'25	-1°48'30
inferior conj	2158 Oct 29 09:10	5° m 58'23	-0°50'00	minimum elong	2159 Oct 13 10:25	19° u 37'48	1°47'20
minimum elong	2158 Oct 29 10:28	5° m 54'16	0°49'26	asc. node	2159 Oct 18 16:25	14° u 28'12	
asc. node	2158 Oct 31 19:22	3° m 01'25		morning rise	2159 Oct 19 08:56	14° u 03'45	
morning rise	2158 Nov 04 02:26	0° m 04'12		direct	2159 Oct 22 06:22	13° u 17'07	
	2158 Nov 04 05:10	30° R u		morning max el	2159 Oct 28 20:55	16° u 53'38	18°26'00
direct	2158 Nov 07 08:48	29° u 02'47			2159 Nov 07 14:05	0° m	
	2158 Nov 10 15:40	0° m		morning set	2159 Nov 17 14:05	15° m 58'20	
morning max el	2158 Nov 14 08:44	2° m 57'46	19°08'55	desc. node	2159 Nov 25 21:09	29° m 14'28	
	2158 Dec 03 11:49	0° x			2159 Nov 26 08:37	0° x	
morning set	2158 Dec 07 08:25	6° x 00'18					
desc. node	2158 Dec 09 00:05	8° x 34'55		superior conj	2159 Dec 03 02:52	10° x 40'14	-0°47'17
max. Earth dist.	2158 Dec 21 12:45	28° x 11'51	1.44845 AU	minimum elong	2159 Dec 02 20:50	10° x 16'29	0°46'29
	2158 Dec 22 16:10	0° Z		max. Earth dist.	2159 Dec 04 07:46	12° x 33'43	1.45156 AU
					2159 Dec 15 10:25	0° Z	
superior conj	2158 Dec 24 01:26	2° Z 11'36	-1°30'20	evening rise	2159 Dec 19 06:10	6° Z 01'07	
minimum elong	2158 Dec 23 16:35	1° Z 36'31	1°29'28	greatest brilliancy	2159 Dec 29 07:16	21° Z 48'22	-0.8m
evening rise	2159 Jan 07 19:45	26° Z 00'35			2160 Jan 03 17:15	0° \approx	
	2159 Jan 10 05:57	0° \approx		evening max el	2160 Jan 11 02:54	9° \approx 30'24	19°10'15
evening max el	2159 Jan 27 17:31	26° \approx 02'17	18°31'53	asc. node	2160 Jan 14 15:41	12° \approx 25'34	
asc. node	2159 Jan 27 18:39	26° \approx 05'08		retrograde	2160 Jan 18 02:39	13° \approx 29'47	
retrograde	2159 Feb 03 06:57	29° \approx 39'02		evening set	2160 Jan 21 11:21	12° \approx 23'53	
evening set	2159 Feb 06 09:13	28° \approx 45'35		inferior conj	2160 Jan 27 01:14	6° \approx 34'16	3°19'57
inferior conj	2159 Feb 12 04:57	23° \approx 12'25	3°38'23	minimum elong	2160 Jan 26 23:00	6° \approx 41'22	3°19'33
minimum elong	2159 Feb 12 03:43	23° \approx 16'05	3°38'17	min. Earth dist.	2160 Jan 28 11:38	4° \approx 44'37	0.66014 AU
min. Earth dist.	2159 Feb 14 06:36	20° \approx 45'58	0.64619 AU	morning rise	2160 Feb 01 10:24	0° \approx 22'18	

	2160 Feb 01 20:44	30° κ 3		retrograde	2161 Jan 01 00:26	27° ζ 30'26	
direct	2160 Feb 07 20:04	27° ζ 33'18		evening set	2161 Jan 04 17:07	26° ζ 10'48	
	2160 Feb 14 14:18	0° \approx		inferior conj	2161 Jan 10 03:26	20° ζ 07'35	2°50'35
morning max el	2160 Feb 20 14:23	5° \approx 06'05	26°20'59	minimum elong	2161 Jan 10 00:50	20° ζ 16'21	2°49'54
desc. node	2160 Feb 21 20:18	6° \approx 23'27		min. Earth dist.	2161 Jan 11 00:02	18° ζ 58'25	0.67003 AU
	2160 Mar 10 16:45	0° H		morning rise	2161 Jan 15 08:20	13° ζ 54'09	
morning set	2160 Mar 27 17:05	28° H 52'36		direct	2161 Jan 21 04:47	11° ζ 17'40	
	2160 Mar 28 07:25	0° Υ		morning max el	2161 Feb 01 23:12	18° ζ 19'02	25°03'07
max. Earth dist.	2160 Mar 31 18:50	6° Υ 41'24	1.35012 AU	desc. node	2161 Feb 07 17:21	24° ζ 46'53	
					2161 Feb 11 19:42	0° \approx	
superior conj	2160 Apr 05 14:23	16° Υ 21'14	-0°59'38		2161 Mar 03 18:05	0° H	
minimum elong	2160 Apr 05 17:24	16° Υ 36'43	0°59'06	morning set	2161 Mar 10 03:36	11° H 03'37	
asc. node	2160 Apr 11 15:01	28° Υ 51'25		max. Earth dist.	2161 Mar 13 19:25	17° H 43'28	1.36805 AU
	2160 Apr 12 04:13	0° B					
evening rise	2160 Apr 13 07:20	2° B 20'16		superior conj	2161 Mar 20 02:40	29° H 46'57	-1°25'59
	2160 Apr 29 11:50	0° II		minimum elong	2161 Mar 20 06:45	0° Υ 07'07	1°25'25
evening max el	2160 May 02 01:21	2° II 45'26	20°41'16		2161 Mar 20 05:19	0° Υ	
retrograde	2160 May 13 07:45	8° II 14'16		evening rise	2161 Mar 28 10:44	16° Υ 30'21	
evening set	2160 May 15 10:06	8° II 03'36		asc. node	2161 Mar 29 12:03	18° Υ 37'08	
desc. node	2160 May 19 19:31	6° II 40'13			2161 Apr 04 11:07	0° B	
inferior conj	2160 May 24 16:18	4° II 05'49	-1°24'59	evening max el	2161 Apr 14 14:40	14° B 20'26	19°32'58
minimum elong	2160 May 24 12:17	4° II 11'35	1°23'32	retrograde	2161 Apr 24 03:35	18° B 56'59	
min. Earth dist.	2160 May 25 17:54	3° II 29'06	0.54982 AU	evening set	2161 Apr 26 04:30	18° B 45'18	
	2160 Jun 02 10:38	30° R 8		inferior conj	2161 May 04 19:27	14° B 40'48	0°32'26
morning rise	2160 Jun 02 13:51	29° B 57'56		minimum elong	2161 May 04 20:50	14° B 38'35	0°31'57
direct	2160 Jun 06 03:53	29° B 30'15		desc. node	2161 May 06 16:31	13° B 28'46	
	2160 Jun 09 19:24	0° II		min. Earth dist.	2161 May 07 08:20	13° B 03'57	0.55842 AU
morning max el	2160 Jun 19 09:11	5° II 52'31	23°05'42	morning rise	2161 May 13 10:25	10° B 01'25	
	2160 Jul 06 05:44	0° B		direct	2161 May 17 12:29	9° B 15'44	
asc. node	2160 Jul 08 14:17	4° B 33'43		morning max el	2161 May 31 23:53	16° B 20'50	24°47'25
morning set	2160 Jul 12 07:52	12° B 12'15			2161 Jun 12 00:27	0° II	
				asc. node	2161 Jun 25 11:20	24° II 19'13	
superior conj	2160 Jul 19 09:56	27° B 21'43	1°32'30	morning set	2161 Jun 26 19:44	27° II 08'50	
minimum elong	2160 Jul 19 07:49	27° B 10'21	1°32'17		2161 Jun 28 03:55	0° B	
	2160 Jul 20 15:39	0° Q					
max. Earth dist.	2160 Jul 22 02:01	3° Q 01'20	1.33785 AU	superior conj	2161 Jul 03 19:13	12° B 14'57	1°17'49
evening rise	2160 Jul 27 02:06	13° Q 14'43		minimum elong	2161 Jul 03 16:49	12° B 01'52	1°17'28
	2160 Aug 05 02:25	0° P		max. Earth dist.	2161 Jul 05 06:58	15° B 29'03	1.32851 AU
desc. node	2160 Aug 15 18:53	16° P 59'42		evening rise	2161 Jul 11 00:30	27° B 34'54	
	2160 Aug 25 19:07	0° Q			2161 Jul 12 05:08	0° Q	
evening max el	2160 Aug 30 09:21	4° Q 49'21	27°17'58		2161 Jul 29 08:47	0° P	
retrograde	2160 Sep 12 20:20	12° Q 08'02		desc. node	2161 Aug 02 15:53	6° P 04'39	
evening set	2160 Sep 19 21:20	9° Q 24'51		evening max el	2161 Aug 12 19:11	17° P 49'03	27°24'48
min. Earth dist.	2160 Sep 23 15:40	5° Q 54'01	0.64582 AU	retrograde	2161 Aug 26 13:06	25° P 06'18	
inferior conj	2160 Sep 25 22:33	3° Q 25'28	-2°46'52	evening set	2161 Sep 02 18:02	22° P 33'14	
minimum elong	2160 Sep 26 02:58	3° Q 13'30	2°45'17	min. Earth dist.	2161 Sep 06 08:27	19° P 32'58	0.62909 AU
	2160 Sep 29 08:31	30° R 11		inferior conj	2161 Sep 09 03:37	16° P 49'54	-3°41'40
morning rise	2160 Oct 02 09:36	27° P 57'26		minimum elong	2161 Sep 09 08:58	16° P 36'53	3°40'10
asc. node	2160 Oct 04 13:29	27° P 22'57		morning rise	2161 Sep 16 01:18	11° P 39'34	
direct	2160 Oct 05 00:28	27° P 21'51		direct	2161 Sep 18 12:14	11° P 11'36	
	2160 Oct 10 15:46	0° Q		asc. node	2161 Sep 21 10:32	11° P 52'21	
morning max el	2160 Oct 11 12:32	0° Q 49'07	17°59'53	morning max el	2161 Sep 25 04:40	14° P 37'50	17°51'26
morning set	2160 Oct 29 00:29	27° Q 20'27			2161 Oct 05 19:47	0° Q	
	2160 Oct 30 14:25	0° M		morning set	2161 Oct 11 10:36	9° Q 51'06	
superior conj	2160 Nov 11 13:40	19° M 41'19	0°01'17	superior conj	2161 Oct 23 00:50	29° Q 55'25	0°44'02
minimum elong	2160 Nov 11 13:48	19° M 41'53	0°01'16	minimum elong	2161 Oct 23 04:49	0° M 12'06	0°43'29
behind sun begin	2160 Nov 11 03:24	19° M 00'02			2161 Oct 23 01:56	0° M	
behind sun end	2160 Nov 12 00:13	20° M 23'41		desc. node	2161 Oct 29 15:12	10° M 46'52	
desc. node	2160 Nov 11 18:12	19° M 59'35		max. Earth dist.	2161 Oct 29 18:11	10° M 58'53	1.43626 AU
max. Earth dist.	2160 Nov 16 02:28	26° M 54'55	1.44727 AU	evening rise	2161 Nov 07 05:33	24° M 21'49	
	2160 Nov 18 01:24	0° A			2161 Nov 10 21:34	0° A	
evening rise	2160 Nov 27 21:07	15° A 16'54			2161 Dec 01 17:23	0° B	
	2160 Dec 07 12:13	0° B		evening max el	2161 Dec 07 06:58	6° B 30'21	21°11'41
greatest brilliancy	2160 Dec 12 03:27	6° B 55'43	-0.6m	retrograde	2161 Dec 15 22:04	11° B 37'37	
evening max el	2160 Dec 24 07:41	22° B 59'52	20°04'26	asc. node	2161 Dec 18 09:46	11° B 03'17	
asc. node	2160 Dec 31 12:44	27° B 29'07		evening set	2161 Dec 20 00:35	10° B 02'45	

inferior conj	2161 Dec 25 09:13	3°  49'06	2°12'41	retrograde	2162 Nov 29 17:47	25°  48'35	
minimum elong	2161 Dec 25 06:45	3°  57'37	2°11'51	evening set	2162 Dec 04 08:05	23°  57'07	
min. Earth dist.	2161 Dec 25 17:32	3°  20'25	0.67605 AU	asc. node	2162 Dec 05 06:48	23°  05'50	
	2161 Dec 28 06:24	30°  R 		inferior conj	2162 Dec 09 16:37	17°  36'33	1°27'53
morning rise	2161 Dec 30 12:45	27°  36'10		minimum elong	2162 Dec 09 14:44	17°  43'02	1°27'09
direct	2162 Jan 04 18:26	25°  19'07		min. Earth dist.	2162 Dec 09 13:45	17°  46'29	0.67843 AU
	2162 Jan 13 15:44	0° 		morning rise	2162 Dec 14 21:16	11°  26'04	
morning max el	2162 Jan 15 07:44	1°  36'25	23°35'35	direct	2162 Dec 19 12:02	9°  31'40	
desc. node	2162 Jan 25 14:23	13°  35'04		morning max el	2162 Dec 28 19:20	15°  00'15	22°08'09
	2162 Feb 05 20:09	0° 			2163 Jan 09 21:26	0° 	
morning set	2162 Feb 19 14:43	22°  03'03		desc. node	2163 Jan 12 11:26	3°  38'10	
max. Earth dist.	2162 Feb 23 14:08	28°  55'00	1.38898 AU		2163 Jan 29 20:37	0° 	
	2162 Feb 24 04:53	0° 		morning set	2163 Jan 30 21:14	1°  39'01	
				max. Earth dist.	2163 Feb 05 11:38	10°  52'13	1.41039 AU
superior conj	2162 Mar 03 01:33	12°  H29'58	-1°48'08				
minimum elong	2162 Mar 03 05:45	12°  H49'40	1°47'45	superior conj	2163 Feb 13 06:18	24°  18'41	-2°02'24
evening rise	2162 Mar 12 06:29	0°  Y12'38		minimum elong	2163 Feb 13 08:41	24°  29'19	2°02'19
	2162 Mar 12 03:53	0° 			2163 Feb 16 10:15	0° 	
asc. node	2162 Mar 16 09:05	8°  Y05'11		evening rise	2163 Feb 23 15:17	13°  H19'20	
evening max el	2162 Mar 28 14:31	26°  Y33'45	18°44'27	asc. node	2163 Mar 03 06:07	27°  H09'33	
	2162 Apr 02 19:10	0° 			2163 Mar 04 22:57	0° 	
retrograde	2162 Apr 05 16:02	0°  B29'34		evening max el	2163 Mar 11 21:49	9°  Y17'33	18°16'02
evening set	2162 Apr 07 22:20	0°  B12'10		retrograde	2163 Mar 18 23:33	12°  Y49'28	
	2162 Apr 08 15:15	30°  R 		evening set	2163 Mar 21 11:56	12°  Y23'36	
inferior conj	2162 Apr 15 17:39	25°  Y50'30	2°06'14	inferior conj	2163 Mar 28 13:12	7°  Y41'00	3°06'21
minimum elong	2162 Apr 15 21:33	25°  Y43'14	2°05'05	minimum elong	2163 Mar 28 16:33	7°  Y33'42	3°05'42
min. Earth dist.	2162 Apr 19 01:20	23°  Y23'44	0.57473 AU	min. Earth dist.	2163 Mar 31 23:02	4°  Y44'51	0.59531 AU
morning rise	2162 Apr 23 17:38	20°  Y37'30		morning rise	2163 Apr 04 18:46	2°  Y01'49	
desc. node	2162 Apr 23 13:33	20°  Y42'08		desc. node	2163 Apr 10 10:34	0°  Y10'56	
direct	2162 Apr 29 07:09	19°  Y21'24		direct	2163 Apr 11 04:34	0°  Y09'24	
morning max el	2162 May 13 15:31	26°  Y53'35	26°17'16	morning max el	2163 Apr 25 12:34	7°  Y56'31	27°20'44
	2162 May 16 14:57	0° 			2163 May 12 05:23	0° 	
	2162 Jun 05 07:22	0° 		morning set	2163 May 26 15:17	26°  B45'17	
morning set	2162 Jun 11 06:45	12°  II01'36			2163 May 28 04:18	0° 	
asc. node	2162 Jun 12 08:22	14°  II17'18		asc. node	2163 May 30 05:24	4°  II23'20	
				max. Earth dist.	2163 Jun 02 05:44	10°  II58'26	1.32174 AU
superior conj	2162 Jun 18 06:36	27°  II12'13	0°58'57				
minimum elong	2162 Jun 18 04:24	27°  II00'09	0°58'34	superior conj	2163 Jun 02 18:20	12°  II07'44	0°36'38
max. Earth dist.	2162 Jun 18 17:23	28°  II11'28	1.32318 AU	minimum elong	2163 Jun 02 16:47	11°  II59'12	0°36'19
	2162 Jun 19 13:09	0° 		evening rise	2163 Jun 09 14:54	27°  II02'28	
evening rise	2162 Jun 25 05:34	12°  B13'25			2163 Jun 11 00:47	0° 	
	2162 Jul 04 08:51	0° 			2163 Jun 28 02:14	0° 	
desc. node	2162 Jul 20 12:53	24°  B16'40		desc. node	2163 Jul 07 09:52	11°  B13'59	
	2162 Jul 25 19:58	0° 		evening max el	2163 Jul 07 22:55	11°  B45'30	26°00'40
evening max el	2162 Jul 26 00:29	0°  B10'43	26°59'00	retrograde	2163 Jul 21 22:48	18°  B55'14	
retrograde	2162 Aug 08 22:27	7°  B24'13		evening set	2163 Jul 28 05:20	17°  B20'23	
evening set	2162 Aug 15 22:17	5°  B14'37		min. Earth dist.	2163 Aug 01 11:25	14°  B43'30	0.58901 AU
min. Earth dist.	2162 Aug 19 14:45	2°  B34'12	0.60963 AU	inferior conj	2163 Aug 04 18:14	12°  B17'25	-4°55'48
inferior conj	2162 Aug 22 19:23	29°  B50'30	-4°27'36	minimum elong	2163 Aug 04 20:25	12°  B13'21	4°55'40
minimum elong	2162 Aug 23 00:18	29°  B39'56	4°26'42	morning rise	2163 Aug 12 13:40	7°  B50'50	
	2162 Aug 22 14:58	30°  R 		direct	2163 Aug 15 01:15	7°  B30'15	
morning rise	2162 Aug 30 04:04	25°  B00'57		morning max el	2163 Aug 23 01:56	11°  B20'39	18°32'18
direct	2162 Sep 01 13:58	24°  B37'43		asc. node	2163 Aug 26 04:38	14°  B49'35	
asc. node	2162 Sep 08 07:35	27°  B46'08			2163 Sep 04 12:17	0° 	
morning max el	2162 Sep 08 18:11	28°  B11'10	18°01'48	morning set	2163 Sep 08 06:03	7°  B07'45	
	2162 Sep 10 10:50	0° 					
morning set	2162 Sep 24 14:09	23°  B11'36		superior conj	2163 Sep 17 03:16	24°  B07'11	1°35'07
	2162 Sep 28 06:29	0° 		minimum elong	2163 Sep 17 06:12	24°  B20'50	1°34'53
					2163 Sep 20 08:03	0° 	
superior conj	2162 Oct 04 14:48	11°  B28'00	1°15'30	max. Earth dist.	2163 Sep 24 11:39	7°  B22'27	1.40006 AU
minimum elong	2162 Oct 04 19:11	11°  B47'21	1°15'01	evening rise	2163 Sep 28 17:11	14°  B35'51	
max. Earth dist.	2162 Oct 12 05:18	24°  B31'14	1.41984 AU	desc. node	2163 Oct 03 09:15	22°  B14'43	
	2162 Oct 15 13:13	0° 			2163 Oct 08 07:53	0° 	
desc. node	2162 Oct 16 12:14	1°  B33'08			2163 Oct 30 05:40	0° 	
evening rise	2162 Oct 18 00:30	3°  B58'42		evening max el	2163 Nov 02 15:00	3°  B37'47	23°47'55
	2162 Nov 04 06:24	0° 		retrograde	2163 Nov 13 10:24	9°  B59'53	
evening max el	2162 Nov 20 00:58	20°  B02'40	22°27'59	evening set	2163 Nov 18 14:00	7°  B51'18	

asc. node	2163 Nov 22 03:51	3°♊55'01		evening set	2164 Nov 01 16:43	21°♍43'11	
inferior conj	2163 Nov 23 23:47	1°♊27'33	0°37'31	min. Earth dist.	2164 Nov 06 04:49	16°♍39'44	0.67300 AU
minimum elong	2163 Nov 23 22:54	1°♊30'33	0°37'09	inferior conj	2164 Nov 07 05:02	15°♍20'25	-0°17'06
min. Earth dist.	2163 Nov 23 10:15	2°♊13'35	0.67740 AU	minimum elong	2164 Nov 07 05:28	15°♍19'01	0°16'55
	2163 Nov 25 01:45	30°♍		asc. node	2164 Nov 08 00:53	14°♍15'50	
morning rise	2163 Nov 29 07:48	25°♍21'36		morning rise	2164 Nov 12 18:24	9°♍21'15	
direct	2163 Dec 03 08:34	23°♍49'52		direct	2164 Nov 16 06:49	8°♍09'54	
morning max el	2163 Dec 11 13:26	28°♍34'25	20°48'16	morning max el	2164 Nov 23 15:28	12°♍20'09	19°40'54
	2163 Dec 12 22:01	0°♊			2164 Dec 06 22:45	0°♊	
desc. node	2163 Dec 30 08:29	23°♊43'37		greatest brilliancy	2164 Dec 06 22:03	29°♍57'23	-0.7m
	2164 Jan 03 12:33	0°♊		desc. node	2164 Dec 16 05:33	14°♊06'20	
morning set	2164 Jan 10 01:35	10°♊03'46		morning set	2164 Dec 18 22:09	18°♊15'24	
max. Earth dist.	2164 Jan 18 16:29	23°♊45'47	1.42934 AU		2164 Dec 26 11:18	0°♊	
	2164 Jan 22 11:47	0°♋		max. Earth dist.	2164 Dec 31 04:23	7°♊25'51	1.44332 AU
superior conj	2164 Jan 25 11:33	4°♋59'49	-2°04'01	superior conj	2165 Jan 04 14:30	14°♊29'59	-1°48'11
minimum elong	2164 Jan 25 09:32	4°♋51'20	2°03'59	minimum elong	2165 Jan 04 07:07	14°♊00'17	1°47'39
evening rise	2164 Feb 06 09:06	25°♋41'03			2165 Jan 14 01:15	0°♋	
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asc. node	2164 Feb 18 03:09	15°♋41'46			2165 Feb 01 07:56	0°♋	
evening max el	2164 Feb 23 09:11	22°♋21'41	18°07'18	asc. node	2165 Feb 04 00:11	3°♋32'29	
retrograde	2164 Feb 29 22:45	25°♋45'26		evening max el	2165 Feb 05 21:46	5°♋39'20	18°17'37
evening set	2164 Mar 03 16:27	25°♋09'41		retrograde	2165 Feb 12 08:56	9°♋08'12	
inferior conj	2164 Mar 10 03:22	20°♋06'18	3°36'12	evening set	2165 Feb 15 07:50	8°♋21'37	
minimum elong	2164 Mar 10 04:52	20°♋02'35	3°36'05	inferior conj	2165 Feb 21 08:11	2°♋58'53	3°42'43
min. Earth dist.	2164 Mar 13 04:15	17°♋05'29	0.61671 AU	minimum elong	2165 Feb 21 07:47	2°♋59'59	3°42'43
morning rise	2164 Mar 16 15:45	14°♋10'21		min. Earth dist.	2165 Feb 23 18:51	0°♋15'07	0.63635 AU
direct	2164 Mar 23 12:26	11°♋45'26			2165 Feb 24 00:28	30°♋	
desc. node	2164 Mar 27 07:37	12°♋25'53		morning rise	2165 Feb 27 06:56	26°♋53'30	
morning max el	2164 Apr 06 16:01	19°♋40'30	27°48'51	direct	2165 Mar 06 05:00	24°♋07'43	
	2164 Apr 15 11:27	0°♋		desc. node	2165 Mar 14 04:41	27°♋06'05	
	2164 May 04 02:22	0°♋			2165 Mar 17 20:07	0°♋	
morning set	2164 May 09 19:21	11°♋12'51		morning max el	2165 Mar 20 00:02	2°♋03'15	27°39'38
max. Earth dist.	2164 May 15 16:01	23°♋35'42	1.32412 AU		2165 Apr 09 17:29	0°♋	
asc. node	2164 May 16 02:27	24°♋32'22		morning set	2165 Apr 23 16:34	25°♋16'35	
superior conj	2164 May 17 04:42	26°♋55'14	0°11'32		2165 Apr 26 00:44	0°♋	
minimum elong	2164 May 17 04:10	26°♋52'19	0°11'25	max. Earth dist.	2165 Apr 28 20:04	5°♋49'36	1.33060 AU
behind sun begin	2164 May 17 00:35	26°♋32'47		superior conj	2165 May 01 11:54	11°♋28'54	-0°15'34
behind sun end	2164 May 17 07:44	27°♋11'51		minimum elong	2165 May 01 12:40	11°♋33'01	0°15'25
	2164 May 18 14:31	0°♋		behind sun begin	2165 May 01 11:19	11°♋25'46	
evening rise	2164 May 24 02:22	11°♋54'22		behind sun end	2165 May 01 14:01	11°♋40'16	
	2164 Jun 02 07:03	0°♋		asc. node	2165 May 02 23:30	14°♋40'21	
evening max el	2164 Jun 18 14:33	22°♋36'25	24°36'57	evening rise	2165 May 08 14:05	26°♋42'44	
desc. node	2164 Jun 23 06:53	26°♋26'56			2165 May 10 03:46	0°♋	
retrograde	2164 Jul 02 12:34	29°♋39'05			2165 May 28 06:27	0°♋	
evening set	2164 Jul 07 12:40	28°♋42'37		evening max el	2165 May 31 04:21	3°♋05'25	23°01'23
min. Earth dist.	2164 Jul 13 01:38	25°♋51'01	0.56978 AU	desc. node	2165 Jun 10 03:54	9°♋19'38	
inferior conj	2164 Jul 15 21:19	24°♋01'52	-4°53'18	retrograde	2165 Jun 13 14:05	9°♋46'23	
minimum elong	2164 Jul 15 18:23	24°♋06'38	4°53'03	evening set	2165 Jun 17 02:02	9°♋19'32	
morning rise	2164 Jul 24 02:48	19°♋56'44		min. Earth dist.	2165 Jun 24 13:31	5°♋59'09	0.55540 AU
direct	2164 Jul 26 17:56	19°♋37'34		inferior conj	2165 Jun 26 05:00	5°♋01'50	-4°06'19
morning max el	2164 Aug 05 00:58	23°♋57'16	19°24'02	minimum elong	2165 Jun 25 21:32	5°♋12'42	4°04'42
	2164 Aug 10 04:20	0°♋		morning rise	2165 Jul 04 19:30	1°♋09'06	
asc. node	2164 Aug 12 01:41	2°♋48'00		direct	2165 Jul 07 15:42	0°♋49'57	
morning set	2164 Aug 22 06:33	21°♋29'16		morning max el	2165 Jul 18 12:57	5°♋52'34	20°36'49
	2164 Aug 26 12:22	0°♋		asc. node	2165 Jul 29 22:45	21°♋28'23	
superior conj	2164 Aug 30 08:37	7°♋37'07	1°44'20		2165 Aug 03 11:46	0°♋	
minimum elong	2164 Aug 30 09:40	7°♋42'12	1°44'17	morning set	2165 Aug 06 12:47	6°♋08'01	
max. Earth dist.	2164 Sep 05 15:30	19°♋33'27	1.37949 AU	superior conj	2165 Aug 14 01:58	21°♋42'58	1°44'59
evening rise	2164 Sep 09 09:48	26°♋20'04		minimum elong	2165 Aug 14 01:23	21°♋39'57	1°44'58
	2164 Sep 11 12:17	0°♋			2165 Aug 18 05:16	0°♋	
desc. node	2164 Sep 19 06:16	12°♋47'36		max. Earth dist.	2165 Aug 18 22:25	1°♋23'46	1.36062 AU
	2164 Sep 30 20:55	0°♋		evening rise	2165 Aug 22 23:07	9°♋03'16	
evening max el	2164 Oct 15 03:06	17°♋16'28	25°04'59		2165 Sep 04 03:44	0°♋	
retrograde	2164 Oct 26 22:58	24°♋07'42		desc. node	2165 Sep 06 03:17	3°♋06'06	

































































































































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evening max el	2165 Sep 27 15:06	0°♄55'57	26°11'52	retrograde	2166 Sep 23 08:56	21°♄46'37	
retrograde	2165 Oct 10 06:44	8°♄05'28		evening set	2166 Sep 30 04:35	19°♄03'27	
evening set	2165 Oct 16 14:20	5°♄28'33		min. Earth dist.	2166 Oct 04 02:33	15°♄12'02	0.65396 AU
min. Earth dist.	2165 Oct 20 19:03	1°♄00'48	0.66520 AU	inferior conj	2166 Oct 06 02:01	12°♄56'21	-2°13'25
	2165 Oct 21 14:46	30°♄		minimum elong	2166 Oct 06 05:36	12°♄46'06	2°12'02
inferior conj	2165 Oct 22 06:28	29°♄11'17	-1°14'41	morning rise	2166 Oct 12 07:22	7°♄19'09	
minimum elong	2165 Oct 22 08:27	29°♄05'11	1°13'51	asc. node	2166 Oct 12 19:00	7°♄05'56	
asc. node	2165 Oct 25 21:57	25°♄04'10		direct	2166 Oct 15 01:41	6°♄37'38	
morning rise	2165 Oct 28 03:01	23°♄21'35		morning max el	2166 Oct 21 14:22	10°♄09'22	18°12'38
direct	2165 Oct 31 05:12	22°♄27'04			2166 Nov 04 09:03	0°♄	
morning max el	2165 Nov 07 00:28	26°♄13'23	18°48'35	morning set	2166 Nov 09 05:46	7°♄58'20	
	2165 Nov 10 07:25	0°♄		desc. node	2166 Nov 19 23:36	25°♄22'30	
morning set	2165 Nov 28 11:34	27°♄23'22			2166 Nov 22 21:22	0°♄	
	2165 Nov 30 03:19	0°♄					
desc. node	2165 Dec 03 02:36	4°♄40'37		superior conj	2166 Nov 23 23:18	1°♄42'43	-0°26'35
max. Earth dist.	2165 Dec 13 21:10	21°♄35'50	1.45069 AU	minimum elong	2166 Nov 23 19:53	1°♄29'12	0°26'07
				max. Earth dist.	2166 Nov 26 16:17	5°♄59'00	1.45070 AU
superior conj	2165 Dec 14 20:33	23°♄07'43	-1°13'33	evening rise	2166 Dec 10 08:27	27°♄20'30	
minimum elong	2165 Dec 14 12:05	22°♄34'25	1°12'35		2166 Dec 12 01:27	0°♄	
	2165 Dec 19 05:11	0°♄		greatest brilliancy	2166 Dec 22 11:49	16°♄05'55	-0.7m
evening rise	2165 Dec 30 07:24	17°♄42'14			2167 Jan 01 09:40	0°♄	
	2166 Jan 06 22:26	0°♄		evening max el	2167 Jan 03 16:38	2°♄34'09	19°31'35
evening max el	2166 Jan 20 08:58	19°♄05'01	18°46'11	asc. node	2167 Jan 08 18:15	6°♄19'17	
asc. node	2166 Jan 21 21:13	20°♄29'51		retrograde	2167 Jan 10 22:45	6°♄45'28	
retrograde	2166 Jan 27 02:01	22°♄50'14		evening set	2167 Jan 14 10:42	5°♄33'51	
evening set	2166 Jan 30 06:47	21°♄51'48		inferior conj	2167 Jan 19 22:50	29°♄38'20	3°08'39
inferior conj	2166 Feb 04 23:45	16°♄11'36	3°32'05	minimum elong	2167 Jan 19 20:22	29°♄46'22	3°08'07
minimum elong	2166 Feb 04 22:01	16°♄16'55	3°31'52		2167 Jan 19 16:12	30°♄	
min. Earth dist.	2166 Feb 06 18:55	13°♄59'36	0.65262 AU	min. Earth dist.	2167 Jan 21 03:12	28°♄05'40	0.66490 AU
morning rise	2166 Feb 10 12:49	10°♄01'18		morning rise	2167 Jan 25 05:50	23°♄25'44	
direct	2166 Feb 17 04:43	7°♄09'20		direct	2167 Jan 31 10:19	20°♄40'47	
desc. node	2166 Mar 01 01:46	13°♄36'21		morning max el	2167 Feb 12 18:55	28°♄01'23	25°49'38
morning max el	2166 Mar 02 09:44	14°♄54'19	26°57'17		2167 Feb 14 16:08	0°♄	
	2166 Mar 14 18:19	0°♄		desc. node	2167 Feb 15 22:49	1°♄25'13	
	2166 Apr 02 10:52	0°♄			2167 Mar 08 11:48	0°♄	
morning set	2166 Apr 07 03:49	8°♄46'57		morning set	2167 Mar 21 00:48	21°♄30'36	
max. Earth dist.	2166 Apr 11 14:14	17°♄31'07	1.34161 AU	max. Earth dist.	2167 Mar 24 20:44	28°♄42'09	1.35728 AU
					2167 Mar 25 12:56	0°♄	
superior conj	2166 Apr 15 13:53	25°♄42'39	-0°43'36				
minimum elong	2166 Apr 15 16:06	25°♄54'13	0°43'10	superior conj	2167 Mar 30 08:02	9°♄28'12	-1°11'09
	2166 Apr 17 14:55	0°♄		minimum elong	2167 Mar 30 11:35	9°♄46'05	1°10'34
asc. node	2166 Apr 19 20:32	4°♄43'23		asc. node	2167 Apr 06 17:33	24°♄36'36	
evening rise	2166 Apr 23 00:15	11°♄21'41		evening rise	2167 Apr 07 06:46	25°♄44'07	
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evening max el	2166 May 13 00:02	13°♄44'43	21°28'50	evening max el	2167 Apr 25 06:31	24°♄56'09	20°09'54
retrograde	2166 May 25 04:52	19°♄43'09			2167 May 05 00:35	0°♄	
evening set	2166 May 27 14:25	19°♄30'04		retrograde	2167 May 05 18:47	0°♄01'31	
desc. node	2166 May 28 00:56	19°♄24'58			2167 May 06 13:07	30°♄	
inferior conj	2166 Jun 06 00:10	15°♄29'50	-2°32'40	evening set	2167 May 07 19:22	29°♄51'01	
minimum elong	2166 Jun 05 17:22	15°♄39'22	2°30'25	desc. node	2167 May 14 21:58	26°♄59'39	
min. Earth dist.	2166 Jun 06 01:31	15°♄27'57	0.54908 AU	inferior conj	2167 May 16 20:10	25°♄52'13	-0°33'44
morning rise	2166 Jun 14 20:58	11°♄32'59		minimum elong	2167 May 16 18:35	25°♄54'33	0°33'09
direct	2166 Jun 18 02:31	11°♄10'13		min. Earth dist.	2167 May 18 14:27	24°♄49'29	0.55240 AU
morning max el	2166 Jun 30 13:41	17°♄04'00	22°07'49	morning rise	2167 May 25 16:11	21°♄32'33	
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asc. node	2166 Jul 16 19:49	10°♄40'30		morning max el	2167 Jun 12 06:11	27°♄40'15	23°49'26
morning set	2166 Jul 21 22:37	20°♄58'09			2167 Jun 14 13:26	0°♄	
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superior conj	2166 Jul 29 03:39	6°♄13'59	1°38'43	morning set	2167 Jul 06 10:12	5°♄53'25	
minimum elong	2166 Jul 29 01:56	6°♄04'54	1°38'36				
max. Earth dist.	2166 Aug 01 13:45	13°♄20'53	1.34508 AU	superior conj	2167 Jul 13 10:47	21°♄00'30	1°26'49
evening rise	2166 Aug 06 04:32	22°♄33'33		minimum elong	2167 Jul 13 08:29	20°♄48'03	1°26'33
	2166 Aug 10 03:07	0°♄		max. Earth dist.	2167 Jul 15 14:21	25°♄37'05	1.33341 AU
desc. node	2166 Aug 24 00:16	23°♄03'38			2167 Jul 17 16:10	0°♄	
	2166 Aug 28 20:49	0°♄		evening rise	2167 Jul 20 21:44	6°♄37'54	

	2167 Aug 02 16:31	0°♎			2168 Jul 26 19:14	0°♎
desc. node	2167 Aug 10 21:17	12°♎30'57		desc. node	2168 Jul 27 18:17	1°♎15'18
evening max el	2167 Aug 23 14:58	27°♎45'26	27°24'42	evening max el	2168 Aug 04 23:05	10°♎29'30 27°17'53
	2167 Aug 26 03:27	0°♏		retrograde	2168 Aug 18 18:37	17°♎45'04
retrograde	2167 Sep 06 05:04	5°♏03'01		evening set	2168 Aug 25 22:56	15°♎20'04
evening set	2167 Sep 13 08:42	2°♏22'52		min. Earth dist.	2168 Aug 29 13:06	12°♎30'20 0.62107 AU
	2167 Sep 16 03:04	30°♎		inferior conj	2168 Sep 01 12:59	9°♎44'56 -4°02'42
min. Earth dist.	2167 Sep 17 01:03	29°♎05'51	0.63915 AU	minimum elong	2168 Sep 01 18:22	9°♎32'29 4°01'24
inferior conj	2167 Sep 19 13:12	26°♎30'07	-3°10'46	morning rise	2168 Sep 08 15:22	4°♎43'21
minimum elong	2167 Sep 19 18:07	26°♎17'22	3°09'10	direct	2168 Sep 11 01:36	4°♎17'39
morning rise	2167 Sep 26 04:39	21°♎09'01		asc. node	2168 Sep 15 13:06	5°♎47'59
direct	2167 Sep 28 17:39	20°♎36'55		morning max el	2168 Sep 17 21:56	7°♎45'31 17°53'35
asc. node	2167 Sep 29 16:03	20°♎41'19			2168 Oct 02 08:29	0°♏
morning max el	2167 Oct 05 06:31	24°♎02'30	17°54'02	morning set	2168 Oct 03 21:22	2°♏46'20
	2167 Oct 10 01:38	0°♏				
morning set	2167 Oct 22 03:08	19°♏52'34		superior conj	2168 Oct 14 18:19	22°♏00'44 0°58'51
	2167 Oct 28 01:32	0°♐		minimum elong	2168 Oct 14 22:48	22°♏19'57 0°58'18
					2168 Oct 19 11:58	0°♐
superior conj	2167 Nov 03 19:25	11°♐12'03	0°20'36	max. Earth dist.	2168 Oct 22 00:54	4°♐10'46 1.42979 AU
minimum elong	2167 Nov 03 21:39	11°♐21'11	0°20'17	desc. node	2168 Oct 23 17:37	6°♐56'06
desc. node	2167 Nov 06 20:36	16°♐08'52		evening rise	2168 Oct 29 05:41	15°♐40'55
max. Earth dist.	2167 Nov 09 10:37	20°♐17'11	1.44342 AU		2168 Nov 07 14:37	0°♑
	2167 Nov 15 14:39	0°♑		evening max el	2168 Nov 29 16:02	29°♑35'17 21°43'14
evening rise	2167 Nov 19 18:43	6°♑27'23			2168 Nov 30 01:52	0°♒
	2167 Dec 05 10:39	0°♒		retrograde	2168 Dec 08 17:48	4°♒59'19
evening max el	2167 Dec 17 19:12	16°♒04'33	20°31'38	asc. node	2168 Dec 12 12:21	3°♒41'19
retrograde	2167 Dec 25 20:41	20°♒49'51		evening set	2168 Dec 13 01:08	3°♒17'20
asc. node	2167 Dec 26 15:18	20°♒46'29			2168 Dec 16 04:01	30°♒♑
evening set	2167 Dec 29 17:26	19°♒23'41		inferior conj	2168 Dec 18 09:32	27°♑00'01 1°54'25
inferior conj	2168 Jan 04 02:49	13°♒15'36	2°35'26	minimum elong	2168 Dec 18 07:16	27°♑07'52 1°53'36
minimum elong	2168 Jan 04 00:13	13°♒24'28	2°34'39	min. Earth dist.	2168 Dec 18 12:54	26°♑48'22 0.67750 AU
min. Earth dist.	2168 Jan 04 17:57	12°♒24'05	0.67310 AU	morning rise	2168 Dec 23 13:15	20°♑47'54
morning rise	2168 Jan 09 06:50	7°♒02'24		direct	2168 Dec 28 12:25	18°♑40'36
direct	2168 Jan 14 21:06	4°♒33'47		morning max el	2169 Jan 07 13:00	24°♑37'22 22°57'51
morning max el	2168 Jan 26 03:24	11°♒16'49	24°26'29		2169 Jan 12 08:28	0°♒
desc. node	2168 Feb 02 19:50	20°♒10'04		desc. node	2169 Jan 19 16:51	9°♒34'27
	2168 Feb 10 02:21	0°♓			2169 Feb 02 13:52	0°♓
	2168 Feb 29 05:34	0°♔		morning set	2169 Feb 11 01:30	13°♓37'43
morning set	2168 Mar 02 02:06	3°♔13'00		max. Earth dist.	2169 Feb 15 13:34	21°♓14'24 1.39824 AU
max. Earth dist.	2168 Mar 05 18:22	9°♔45'55	1.37679 AU		2169 Feb 20 13:10	0°♕
superior conj	2168 Mar 12 15:07	22°♕37'05	-1°36'05	superior conj	2169 Feb 23 06:52	4°♕58'01 -1°55'25
minimum elong	2168 Mar 12 19:26	22°♕57'53	1°35'34	minimum elong	2169 Feb 23 10:36	5°♕15'06 1°55'09
	2168 Mar 16 09:46	0°♖		evening rise	2169 Mar 04 22:49	23°♕11'43
evening rise	2168 Mar 21 07:17	9°♖43'35			2169 Mar 08 13:02	0°♖
asc. node	2168 Mar 23 14:35	14°♖15'36		asc. node	2169 Mar 10 11:38	3°♖34'31
	2168 Apr 01 12:52	0°♗		evening max el	2169 Mar 21 03:52	19°♖14'21 18°29'52
evening max el	2168 Apr 07 00:32	6°♗47'26	19°09'45	retrograde	2169 Mar 28 18:01	22°♖58'20
retrograde	2168 Apr 15 21:07	11°♗05'02		evening set	2169 Mar 31 02:48	22°♖37'43
evening set	2168 Apr 18 00:01	10°♗51'18		inferior conj	2169 Apr 07 14:03	18°♖07'18 2°35'50
inferior conj	2168 Apr 26 06:38	6°♗39'49	1°16'13	minimum elong	2169 Apr 07 18:00	17°♖59'27 2°34'50
minimum elong	2168 Apr 26 09:32	6°♗34'53	1°15'14	min. Earth dist.	2169 Apr 11 00:23	15°♖24'53 0.58314 AU
min. Earth dist.	2168 Apr 29 05:30	4°♗40'07	0.56464 AU	morning rise	2169 Apr 15 06:14	12°♖41'31
desc. node	2168 Apr 30 19:00	3°♗41'12		desc. node	2169 Apr 17 16:01	11°♖42'50
morning rise	2168 May 04 16:02	1°♗45'46		direct	2169 Apr 21 05:08	11°♖10'13
direct	2168 May 09 14:52	0°♗48'46		morning max el	2169 May 05 14:26	18°♖50'39 26°48'17
morning max el	2168 May 23 20:35	8°♗06'30	25°28'09		2169 May 14 23:58	0°♘
	2168 Jun 09 02:14	0°♙			2169 Jun 01 14:17	0°♙
morning set	2168 Jun 19 21:53	20°♙48'40		morning set	2169 Jun 04 08:05	5°♙38'39
asc. node	2168 Jun 19 13:52	20°♙06'24		asc. node	2169 Jun 06 10:55	10°♙08'41
	2168 Jun 24 04:14	0°♚				
				superior conj	2169 Jun 11 08:55	20°♙53'06 0°49'52
superior conj	2168 Jun 26 21:10	5°♚55'33	1°10'17	minimum elong	2169 Jun 11 06:57	20°♙42'15 0°49'29
minimum elong	2168 Jun 26 18:47	5°♚42'34	1°09'54	max. Earth dist.	2169 Jun 11 09:46	20°♙57'43 1.32202 AU
max. Earth dist.	2168 Jun 27 22:07	8°♚12'02	1.32576 AU		2169 Jun 15 12:50	0°♛
evening rise	2168 Jul 03 23:16	21°♚06'09		evening rise	2169 Jun 18 06:24	5°♚50'04
	2168 Jul 08 09:58	0°♜			2169 Jul 01 01:01	0°♜

desc. node	2169 Jul 14 15:19	18°♎59'04		evening max el	2170 Jun 29 20:45	3°♎46'25	25°27'37
evening max el	2169 Jul 18 01:26	22°♎31'18	26°37'56	desc. node	2170 Jul 01 12:21	5°♎16'28	
retrograde	2169 Aug 01 00:42	29°♎44'14		retrograde	2170 Jul 13 21:06	10°♎54'23	
evening set	2169 Aug 07 18:48	27°♎48'01		evening set	2170 Jul 19 15:47	9°♎36'24	
min. Earth dist.	2169 Aug 11 15:03	25°♎11'30	0.60078 AU	min. Earth dist.	2170 Jul 24 08:50	6°♎55'00	0.58039 AU
inferior conj	2169 Aug 14 21:59	22°♎32'31	-4°42'29	inferior conj	2170 Jul 27 12:42	4°♎42'28	-4°59'26
minimum elong	2169 Aug 15 02:05	22°♎24'14	4°41'56	minimum elong	2170 Jul 27 12:55	4°♎42'06	4°59'26
morning rise	2169 Aug 22 11:22	17°♎53'00		morning rise	2170 Aug 04 12:29	0°♎25'19	
direct	2169 Aug 24 21:34	17°♎31'14		direct	2170 Aug 07 01:13	0°♎05'34	
morning max el	2169 Sep 01 09:30	21°♎10'38	18°12'21	morning max el	2170 Aug 15 13:55	4°♎07'22	18°51'40
asc. node	2169 Sep 02 10:09	22°♎13'37		asc. node	2170 Aug 20 07:12	9°♎42'08	
	2169 Sep 08 03:09	0°♎			2170 Aug 31 20:16	0°♎	
morning set	2169 Sep 17 06:45	16°♎23'39		morning set	2170 Sep 01 02:41	0°♎31'27	
	2169 Sep 24 13:04	0°♎					
superior conj	2169 Sep 26 18:38	4°♎04'17	1°25'11	superior conj	2170 Sep 09 14:53	17°♎06'29	1°40'11
minimum elong	2169 Sep 26 22:31	4°♎21'52	1°24'48	minimum elong	2170 Sep 09 17:01	17°♎16'37	1°40'02
max. Earth dist.	2169 Oct 04 09:26	17°♎24'53	1.41162 AU	max. Earth dist.	2170 Sep 16 13:46	29°♎55'53	1.39123 AU
evening rise	2169 Oct 09 09:06	25°♎41'35			2170 Sep 16 14:42	0°♎	
desc. node	2169 Oct 10 14:39	27°♎41'10		evening rise	2170 Sep 20 12:07	6°♎47'41	
	2169 Oct 12 01:20	0°♎		desc. node	2170 Sep 27 11:42	18°♎19'41	
	2169 Nov 01 10:01	0°♎			2170 Oct 05 01:49	0°♎	
evening max el	2169 Nov 12 08:02	13°♎08'32	23°01'50	evening max el	2170 Oct 25 21:06	26°♎45'45	24°21'34
retrograde	2169 Nov 22 12:30	19°♎11'08			2170 Oct 29 12:05	0°♎	
evening set	2169 Nov 27 08:11	17°♎12'27		retrograde	2170 Nov 06 03:30	3°♎21'22	
asc. node	2169 Nov 29 09:23	15°♎09'26		evening set	2170 Nov 11 12:58	1°♎06'04	
inferior conj	2169 Dec 02 17:05	10°♎49'48	1°07'08		2170 Nov 12 17:03	30°♎	
minimum elong	2169 Dec 02 15:35	10°♎54'57	1°06'32	min. Earth dist.	2170 Nov 16 05:44	25°♎42'31	0.67591 AU
min. Earth dist.	2169 Dec 02 09:39	11°♎15'25	0.67840 AU	asc. node	2170 Nov 16 06:26	25°♎40'12	
morning rise	2169 Dec 07 22:53	4°♎40'43		inferior conj	2170 Nov 16 23:41	24°♎42'16	0°14'50
direct	2169 Dec 12 07:28	2°♎56'11		minimum elong	2170 Nov 16 23:19	24°♎43'29	0°14'40
morning max el	2169 Dec 21 03:05	8°♎05'37	21°32'47	transit middle	2170 Nov 16 23:19	24°♎43'29	0°14'40
desc. node	2170 Jan 06 13:54	29°♎27'34		transit begin	2170 Nov 16 22:09	24°♎47'26	
	2170 Jan 06 22:49	0°♎		transit end	2170 Nov 17 00:30	24°♎39'32	
morning set	2170 Jan 21 19:46	22°♎39'44		morning rise	2170 Nov 22 09:42	18°♎38'38	
	2170 Jan 26 09:19	0°♎		direct	2170 Nov 26 05:02	17°♎15'46	
max. Earth dist.	2170 Jan 28 13:18	3°♎33'12	1.41893 AU	morning max el	2170 Dec 04 00:24	21°♎44'30	20°17'50
					2170 Dec 10 21:18	0°♎	
superior conj	2170 Feb 05 02:14	16°♎19'18	-2°04'57	desc. node	2170 Dec 24 10:58	19°♎41'25	
minimum elong	2170 Feb 05 03:03	16°♎22'54	2°04'56		2170 Dec 31 04:49	0°♎	
	2170 Feb 12 18:45	0°♎		morning set	2170 Dec 31 17:46	0°♎50'04	
evening rise	2170 Feb 16 01:46	6°♎00'16		max. Earth dist.	2171 Jan 10 21:13	16°♎48'26	1.43604 AU
asc. node	2170 Feb 25 08:41	22°♎26'26					
	2170 Mar 02 14:37	0°♎		superior conj	2171 Jan 16 20:29	26°♎31'11	-1°59'40
evening max el	2170 Mar 04 13:19	2°♎08'08	18°09'58	minimum elong	2171 Jan 16 16:03	26°♎12'57	1°59'28
retrograde	2170 Mar 11 08:37	5°♎34'41			2171 Jan 18 22:50	0°♎	
evening set	2170 Mar 13 23:16	5°♎04'50		evening rise	2171 Jan 29 11:57	18°♎01'10	
inferior conj	2170 Mar 20 17:59	0°♎13'37	3°22'17		2171 Feb 05 10:07	0°♎	
minimum elong	2170 Mar 20 20:37	0°♎07'32	3°21'54	asc. node	2171 Feb 12 05:44	10°♎43'03	
	2170 Mar 20 23:52	30°♎		evening max el	2171 Feb 16 01:40	15°♎20'10	18°09'25
min. Earth dist.	2170 Mar 24 01:12	27°♎12'08	0.60450 AU	retrograde	2171 Feb 22 12:55	18°♎44'09	
morning rise	2170 Mar 27 15:53	24°♎26'11		evening set	2171 Feb 25 08:55	18°♎03'48	
direct	2170 Apr 03 07:41	22°♎18'28		inferior conj	2171 Mar 03 14:55	12°♎52'07	3°41'22
desc. node	2170 Apr 04 13:04	22°♎22'38		minimum elong	2171 Mar 03 15:34	12°♎50'24	3°41'21
	2170 Apr 17 09:57	0°♎		min. Earth dist.	2171 Mar 06 10:11	9°♎56'19	0.62547 AU
morning max el	2170 Apr 17 14:13	0°♎10'30	27°37'14	morning rise	2171 Mar 09 21:04	6°♎51'45	
	2170 May 09 00:17	0°♎		direct	2171 Mar 16 19:36	4°♎16'10	
morning set	2170 May 19 14:57	20°♎16'24		desc. node	2171 Mar 22 10:07	5°♎44'22	
asc. node	2170 May 24 07:57	0°♎16'42		morning max el	2171 Mar 30 19:43	12°♎11'51	27°49'16
	2170 May 24 04:52	0°♎			2171 Apr 13 22:56	0°♎	
max. Earth dist.	2170 May 25 21:30	3°♎41'22	1.32220 AU		2171 May 01 09:11	0°♎	
				morning set	2171 May 03 16:25	4°♎35'10	
superior conj	2170 May 26 20:17	5°♎46'14	0°26'18	max. Earth dist.	2171 May 09 05:36	16°♎10'37	1.32640 AU
minimum elong	2170 May 26 19:07	5°♎39'51	0°26'02				
evening rise	2170 Jun 02 16:51	20°♎41'14		superior conj	2171 May 11 05:33	20°♎29'12	0°00'14
	2170 Jun 07 05:44	0°♎		minimum elong	2171 May 11 05:32	20°♎29'08	0°00'14
	2170 Jun 26 06:35	0°♎		behind sun begin	2171 May 11 00:21	20°♎01'05	
				behind sun end	2171 May 11 10:42	20°♎57'11	

asc. node	2171 May 11 05:01	20°♄26'17		asc. node	2172 Apr 27 02:03	10°♄32'50	
	2171 May 15 14:35	0°♄		evening rise	2172 May 01 15:59	20°♄18'30	
evening rise	2171 May 18 04:41	5°♄33'04			2172 May 06 10:13	0°♄	
	2171 May 31 04:52	0°♄		evening max el	2172 May 23 02:15	24°♄54'19	22°20'42
evening max el	2171 Jun 11 10:58	14°♄25'17	23°56'50		2172 May 30 04:51	0°♄	
desc. node	2171 Jun 18 09:21	19°♄34'30		desc. node	2172 Jun 04 06:21	1°♄18'01	
retrograde	2171 Jun 25 05:16	21°♄20'10		retrograde	2172 Jun 05 01:19	1°♄19'26	
evening set	2171 Jun 29 13:55	20°♄38'13		evening set	2172 Jun 08 00:21	1°♄00'05	
min. Earth dist.	2171 Jul 05 21:36	17°♄35'55	0.56293 AU		2172 Jun 11 04:48	30°♄	
inferior conj	2171 Jul 08 07:10	16°♄07'46	-4°39'22	min. Earth dist.	2172 Jun 16 08:54	27°♄23'55	0.55166 AU
minimum elong	2171 Jul 08 01:56	16°♄15'50	4°38'39	inferior conj	2172 Jun 17 08:07	26°♄51'09	-3°31'33
morning rise	2171 Jul 16 16:36	12°♄09'10		minimum elong	2172 Jun 17 00:09	27°♄02'25	3°29'23
direct	2171 Jul 19 09:51	11°♄50'05		morning rise	2172 Jun 26 01:55	22°♄59'28	
morning max el	2171 Jul 29 08:16	16°♄26'34	19°52'26	direct	2172 Jun 29 01:30	22°♄39'22	
asc. node	2171 Aug 07 04:15	27°♄59'43		morning max el	2172 Jul 10 15:13	28°♄02'34	21°13'43
	2171 Aug 08 08:44	0°♄			2172 Jul 12 14:09	0°♄	
morning set	2171 Aug 16 05:53	15°♄01'03		asc. node	2172 Jul 24 01:17	16°♄54'48	
	2171 Aug 23 15:14	0°♄		morning set	2172 Jul 30 13:54	29°♄45'41	
					2172 Jul 30 16:40	0°♄	
superior conj	2171 Aug 24 01:48	0°♄52'40	1°45'33	superior conj	2172 Aug 06 23:04	15°♄10'41	1°43'05
minimum elong	2171 Aug 24 02:05	0°♄54'09	1°45'32	minimum elong	2172 Aug 06 21:56	15°♄04'47	1°43'03
max. Earth dist.	2171 Aug 29 18:31	11°♄56'09	1.37118 AU	max. Earth dist.	2172 Aug 11 04:50	23°♄47'53	1.35353 AU
evening rise	2171 Sep 02 14:02	18°♄58'02			2172 Aug 14 08:58	0°♄	
	2171 Sep 08 22:30	0°♄		evening rise	2172 Aug 15 10:44	2°♄02'42	
desc. node	2171 Sep 14 08:43	8°♄47'08		desc. node	2172 Aug 31 05:42	28°♄58'00	
	2171 Sep 29 05:38	0°♄			2172 Aug 31 22:03	0°♄	
evening max el	2171 Oct 08 09:11	10°♄25'45	25°35'15	evening max el	2172 Sep 19 21:18	24°♄03'48	26°35'19
retrograde	2171 Oct 20 13:54	17°♄25'19			2172 Sep 27 19:12	0°♄	
evening set	2171 Oct 26 13:43	14°♄55'04		retrograde	2172 Oct 02 19:14	1°♄17'29	
min. Earth dist.	2171 Oct 30 22:41	10°♄06'43	0.67010 AU		2172 Oct 07 09:10	30°♄	
inferior conj	2171 Nov 01 03:31	8°♄34'24	-0°41'15	evening set	2172 Oct 09 08:29	28°♄36'43	
minimum elong	2171 Nov 01 04:35	8°♄31'00	0°40'48	min. Earth dist.	2172 Oct 13 10:10	24°♄24'47	0.66084 AU
asc. node	2171 Nov 03 03:28	6°♄05'29		inferior conj	2172 Oct 15 02:42	22°♄23'25	-1°39'34
morning rise	2171 Nov 06 19:42	2°♄38'55		minimum elong	2172 Oct 15 05:22	22°♄15'26	1°38'29
direct	2171 Nov 10 03:36	1°♄35'00		asc. node	2172 Oct 20 00:30	17°♄21'05	
morning max el	2171 Nov 17 05:31	5°♄33'28	19°16'44	morning rise	2172 Oct 21 02:49	16°♄38'57	
	2171 Dec 04 18:36	0°♄		direct	2172 Oct 24 01:23	15°♄50'26	
morning set	2171 Dec 10 18:57	9°♄18'53		morning max el	2172 Oct 30 16:58	19°♄29'10	18°31'21
desc. node	2171 Dec 11 08:00	10°♄09'35			2172 Nov 07 18:19	0°♄	
	2171 Dec 24 00:32	0°♄		morning set	2172 Nov 19 20:11	19°♄03'33	
max. Earth dist.	2171 Dec 24 12:07	0°♄45'43	1.44734 AU		2172 Nov 26 16:56	0°♄	
				desc. node	2172 Nov 27 05:01	0°♄47'54	
superior conj	2171 Dec 27 13:07	5°♄34'48	-1°35'38	superior conj	2172 Dec 05 15:01	14°♄03'49	-0°54'27
minimum elong	2171 Dec 27 04:26	5°♄00'19	1°34'49	minimum elong	2172 Dec 05 08:10	13°♄36'55	0°53'36
evening rise	2172 Jan 11 01:07	29°♄06'38		max. Earth dist.	2172 Dec 06 06:35	15°♄04'54	1.45156 AU
	2172 Jan 11 14:00	0°♄			2172 Dec 15 18:26	0°♄	
asc. node	2172 Jan 30 02:46	28°♄13'01		evening rise	2172 Dec 21 14:53	9°♄14'59	
evening max el	2172 Jan 30 13:59	28°♄42'11	18°27'34	greatest brilliancy	2172 Dec 30 21:07	23°♄53'45	-0.8m
	2172 Jan 31 23:26	0°♄			2173 Jan 03 20:08	0°♄	
retrograde	2172 Feb 06 02:34	2°♄16'33		evening max el	2173 Jan 12 23:50	12°♄09'33	19°03'27
evening set	2172 Feb 09 03:55	1°♄24'53		asc. node	2173 Jan 15 23:48	14°♄43'33	
	2172 Feb 11 03:25	30°♄		retrograde	2173 Jan 19 21:41	16°♄05'07	
inferior conj	2172 Feb 15 00:44	25°♄54'14	3°39'59	evening set	2173 Jan 23 05:17	15°♄01'14	
minimum elong	2172 Feb 14 23:42	25°♄57'15	3°39'55	inferior conj	2173 Jan 28 19:53	9°♄13'56	3°23'31
min. Earth dist.	2172 Feb 17 04:41	23°♄23'01	0.64377 AU	minimum elong	2173 Jan 28 17:46	9°♄20'37	3°23'10
morning rise	2172 Feb 20 18:56	19°♄46'30		min. Earth dist.	2173 Jan 30 08:31	7°♄18'16	0.65832 AU
direct	2172 Feb 27 15:07	16°♄56'41		morning rise	2173 Feb 03 05:57	3°♄02'12	
desc. node	2172 Mar 08 07:10	21°♄15'55		direct	2173 Feb 09 17:17	0°♄12'03	
morning max el	2172 Mar 12 04:48	24°♄48'22	27°25'18	morning max el	2173 Feb 22 14:44	7°♄48'43	26°31'05
	2172 Mar 16 22:17	0°♄		desc. node	2173 Feb 23 04:14	8°♄23'07	
	2172 Apr 06 09:10	0°♄			2173 Mar 11 21:39	0°♄	
morning set	2172 Apr 16 09:48	18°♄25'57		morning set	2173 Mar 29 18:36	0°♄	
max. Earth dist.	2172 Apr 21 06:03	28°♄12'32	1.33483 AU	max. Earth dist.	2173 Apr 03 19:32	9°♄41'10	1.34778 AU
	2172 Apr 22 02:43	0°♄					
superior conj	2172 Apr 24 10:47	4°♄55'11	-0°27'25				
minimum elong	2172 Apr 24 12:09	5°♄02'29	0°27'08				

superior conj	2173 Apr 08 09:46	18° Υ 57'52	-0°55'28			2174 Mar 05 02:35	0° H	
minimum elong	2173 Apr 08 12:35	19° Υ 12'22	0°54'56	morning set		2174 Mar 13 05:04	13° H 59'08	
asc. node	2173 Apr 13 23:05	0° B 32'22		max. Earth dist.		2174 Mar 16 21:25	20° H 44'41	1.36511 AU
	2173 Apr 13 16:54	0° B				2174 Mar 21 17:20	0° Υ	
evening rise	2173 Apr 16 00:52	4° B 51'25						
	2173 Apr 30 03:36	0° II		superior conj		2174 Mar 22 23:43	2° Υ 29'37	-1°22'12
evening max el	2173 May 05 02:01	5° II 45'01	20°53'02	minimum elong		2174 Mar 23 03:42	2° Υ 49'20	1°21'36
retrograde	2173 May 16 14:38	11° II 21'54		evening rise		2174 Mar 31 05:12	19° Υ 05'28	
evening set	2173 May 18 18:11	11° II 10'56		asc. node		2174 Mar 31 20:08	20° Υ 20'40	
desc. node	2173 May 22 03:24	10° II 13'14				2174 Apr 05 19:02	0° B	
inferior conj	2173 May 28 01:47	7° II 13'01	-1°43'14	evening max el		2174 Apr 17 13:43	17° B 14'52	19°41'58
minimum elong	2173 May 27 20:56	7° II 19'56	1°41'29	retrograde		2174 Apr 27 08:32	21° B 58'27	
min. Earth dist.	2173 May 28 21:15	6° II 45'20	0.54929 AU	evening set		2174 Apr 29 09:05	21° B 47'13	
morning rise	2173 Jun 05 23:23	3° II 08'33		inferior conj		2174 May 08 02:48	17° B 44'43	0°15'40
direct	2173 Jun 09 10:51	2° II 42'28		minimum elong		2174 May 08 03:29	17° B 43'38	0°15'24
morning max el	2173 Jun 22 12:02	8° II 57'49	22°50'32	transit middle		2174 May 08 03:29	17° B 43'38	0°15'24
	2173 Jul 07 14:38	0° G		transit begin		2174 May 08 02:28	17° B 45'15	
asc. node	2173 Jul 10 22:20	6° G 17'35		transit end		2174 May 08 04:31	17° B 42'02	
morning set	2173 Jul 15 00:40	14° G 38'53		desc. node		2174 May 09 00:26	17° B 10'46	
				min. Earth dist.		2174 May 10 11:25	16° B 16'28	0.55660 AU
superior conj	2173 Jul 22 03:23	29° G 49'44	1°34'18	morning rise		2174 May 16 19:22	13° B 10'35	
minimum elong	2173 Jul 22 01:21	29° G 38'53	1°34'07	direct		2174 May 21 03:53	12° B 28'17	
	2173 Jul 22 05:19	0° Ω		morning max el		2174 Jun 04 03:02	19° B 27'53	24°32'34
max. Earth dist.	2173 Jul 24 23:59	5° Ω 51'35	1.33955 AU			2174 Jun 12 23:57	0° II	
evening rise	2173 Jul 29 21:37	15° Ω 48'56		asc. node		2174 Jun 27 19:23	26° II 00'40	
	2173 Aug 06 11:44	0° P		morning set		2174 Jun 29 12:31	29° II 35'28	
desc. node	2173 Aug 18 02:42	18° P 44'17				2174 Jun 29 17:10	0° G	
	2173 Aug 26 12:13	0° Ω						
evening max el	2173 Sep 02 09:16	7° Ω 30'45	27°14'23	superior conj		2174 Jul 06 12:13	14° G 41'42	1°20'20
retrograde	2173 Sep 15 19:06	14° Ω 49'30		minimum elong		2174 Jul 06 09:49	14° G 28'42	1°20'00
evening set	2173 Sep 22 18:49	12° Ω 05'57		max. Earth dist.		2174 Jul 08 03:52	18° G 16'26	1.32968 AU
min. Earth dist.	2173 Sep 26 14:00	8° Ω 29'52	0.64803 AU	evening rise		2174 Jul 13 18:48	0° Ω 05'40	
inferior conj	2173 Sep 28 18:59	6° Ω 04'20	-2°38'08			2174 Jul 13 17:42	0° Ω	
minimum elong	2173 Sep 28 23:11	5° Ω 52'45	2°36'37			2174 Jul 30 12:27	0° P	
morning rise	2173 Oct 05 04:32	0° Ω 33'50		desc. node		2174 Aug 04 23:43	7° P 55'36	
asc. node	2173 Oct 06 21:33	0° Ω 01'35		evening max el		2174 Aug 15 19:39	20° P 35'09	27°25'46
	2173 Oct 07 01:46	30° R P		retrograde		2174 Aug 29 12:44	27° P 52'30	
direct	2173 Oct 07 20:10	29° P 56'53		evening set		2174 Sep 05 17:32	25° P 17'19	
	2173 Oct 08 14:35	0° Ω		min. Earth dist.		2174 Sep 09 08:23	22° P 12'51	0.63180 AU
morning max el	2173 Oct 14 08:14	3° Ω 25'11	18°02'37	inferior conj		2174 Sep 12 01:43	19° P 31'24	-3°33'50
	2173 Oct 31 23:11	0° M		minimum elong		2174 Sep 12 07:00	19° P 18'20	3°32'17
morning set	2173 Nov 01 02:30	0° M 13'51		morning rise		2174 Sep 18 21:46	14° P 18'03	
desc. node	2173 Nov 14 02:01	21° M 32'07		direct		2174 Sep 21 09:08	13° P 49'08	
				asc. node		2174 Sep 23 18:36	14° P 16'50	
superior conj	2173 Nov 14 23:06	22° M 56'34	-0°05'57	morning max el		2174 Sep 28 00:26	17° P 15'01	17°51'28
minimum elong	2173 Nov 14 22:23	22° M 53'40	0°05'50			2174 Oct 07 02:54	0° Ω	
behind sun begin	2173 Nov 14 12:25	22° M 13'47		morning set		2174 Oct 14 09:29	12° Ω 35'31	
behind sun end	2173 Nov 15 08:21	23° M 33'31				2174 Oct 24 11:34	0° M	
max. Earth dist.	2173 Nov 19 01:14	29° M 26'20	1.44838 AU					
	2173 Nov 19 09:46	0° J		superior conj		2174 Oct 26 06:11	2° M 58'22	0°38'13
evening rise	2173 Dec 01 08:03	18° J 35'23		minimum elong		2174 Oct 26 09:50	3° M 13'32	0°37'44
	2173 Dec 08 18:16	0° B		desc. node		2174 Oct 31 23:01	12° M 19'11	
greatest brilliancy	2173 Dec 15 04:43	9° B 42'33	-0.6m	max. Earth dist.		2174 Nov 01 17:37	13° M 34'04	1.43832 AU
evening max el	2173 Dec 27 05:24	25° B 39'01	19°55'31	evening rise		2174 Nov 10 16:21	27° M 39'14	
asc. node	2174 Jan 02 20:50	29° B 59'37				2174 Nov 12 04:54	0° J	
	2174 Jan 02 21:46	0° \approx				2174 Dec 02 16:10	0° B	
retrograde	2174 Jan 03 19:17	0° \approx 04'28		evening max el		2174 Dec 10 05:33	9° B 09'31	21°01'04
	2174 Jan 04 16:28	30° R B		retrograde		2174 Dec 18 16:59	14° B 10'53	
evening set	2174 Jan 07 10:38	28° B 47'02		asc. node		2174 Dec 20 17:53	13° B 47'47	
inferior conj	2174 Jan 12 21:22	22° B 45'47	2°55'39	evening set		2174 Dec 22 17:57	12° B 38'18	
minimum elong	2174 Jan 12 18:47	22° B 54'25	2°55'00	inferior conj		2174 Dec 28 02:45	6° B 26'08	2°18'53
min. Earth dist.	2174 Jan 13 19:58	21° B 30'22	0.66880 AU	minimum elong		2174 Dec 28 00:14	6° B 34'47	2°18'04
morning rise	2174 Jan 18 02:43	16° B 32'28		min. Earth dist.		2174 Dec 28 12:49	5° B 51'31	0.67539 AU
direct	2174 Jan 24 01:20	13° B 53'24		morning rise		2175 Jan 02 06:19	0° B 13'07	
morning max el	2174 Feb 04 23:38	21° B 00'29	25°15'34			2175 Jan 02 12:21	30° R J	
desc. node	2174 Feb 10 01:16	26° B 38'15		direct		2175 Jan 07 14:17	27° J 52'52	
	2174 Feb 12 18:29	0° \approx				2175 Jan 13 08:10	0° B	

morning max el	2175 Jan 18 07:58	4°  16'54	23°48'50	direct	2175 Dec 22 07:19	12°  04'31	
desc. node	2175 Jan 27 22:17	15°  41'22		morning max el	2175 Dec 31 18:57	17°  40'05	22°20'50
	2175 Feb 07 01:45	0°  ≈			2176 Jan 10 23:06	0°  ≈	
morning set	2175 Feb 22 20:02	25°  ≈10'01		desc. node	2176 Jan 14 19:19	5°  ≈19'12	
	2175 Feb 25 15:00	0°  ≈			2176 Jan 31 04:43	0°  ≈	
max. Earth dist.	2175 Feb 26 16:35	1°  ≈52'45	1.38576 AU	morning set	2176 Feb 03 06:56	4°  ≈58'24	
				max. Earth dist.	2176 Feb 08 13:31	13°  ≈42'46	1.40732 AU
superior conj	2175 Mar 06 00:52	15°  ≈19'47	-1°45'11	superior conj	2176 Feb 16 08:38	27°  ≈17'06	-2°00'56
minimum elong	2175 Mar 06 05:10	15°  ≈40'02	1°44'46	minimum elong	2176 Feb 16 11:27	27°  ≈29'47	2°00'49
	2175 Mar 13 15:01	0°  ≈			2176 Feb 17 20:47	0°  ≈	
evening rise	2175 Mar 15 02:16	2°  ≈52'25		evening rise	2176 Feb 26 12:56	16°  ≈04'53	
asc. node	2175 Mar 18 17:11	9°  ≈51'57		asc. node	2176 Mar 04 14:15	29°  ≈00'19	
evening max el	2175 Mar 31 12:11	29°  ≈22'56	18°50'26		2176 Mar 05 04:04	0°  ≈	
	2175 Apr 01 04:06	0°  ≈		evening max el	2176 Mar 13 18:30	12°  ≈02'12	18°18'59
retrograde	2175 Apr 08 18:12	3°  ≈23'48		retrograde	2176 Mar 20 23:06	15°  ≈03'50	
evening set	2175 Apr 10 23:39	3°  ≈07'24		evening set	2176 Mar 23 10:34	15°  ≈03'50	
	2175 Apr 17 05:35	30°  ≈07'00		inferior conj	2176 Mar 30 14:17	10°  ≈03'24	2°59'18
inferior conj	2175 Apr 18 21:52	28°  ≈04'30	1°54'07	minimum elong	2176 Mar 30 17:51	10°  ≈03'24	2°58'34
minimum elong	2175 Apr 19 01:37	28°  ≈04'14	1°52'58	min. Earth dist.	2176 Apr 03 00:35	7°  ≈03'31	0.59210 AU
min. Earth dist.	2175 Apr 22 03:48	26°  ≈02'17	0.57195 AU	morning rise	2176 Apr 06 22:35	4°  ≈03'46	
desc. node	2175 Apr 25 21:29	24°  ≈01'51		desc. node	2176 Apr 11 18:32	3°  ≈01'54	
morning rise	2175 Apr 27 00:27	23°  ≈04'02		direct	2176 Apr 13 05:46	3°  ≈09'54	
direct	2175 May 02 10:20	22°  ≈02'31		morning max el	2176 Apr 27 14:19	10°  ≈05'24	27°13'28
	2175 May 16 18:56	0°  ≈			2176 May 12 09:33	0°  ≈	
morning max el	2175 May 16 18:07	29°  ≈05'02	26°05'14	morning set	2176 May 28 08:49	29°  ≈08'43	
	2175 Jun 06 17:09	0°  ≈			2176 May 28 17:28	0°  ≈	
morning set	2175 Jun 13 23:48	14°  ≈02'13		asc. node	2176 May 31 13:29	6°  ≈02'27	
asc. node	2175 Jun 14 16:26	15°  ≈05'15					
superior conj	2175 Jun 20 23:25	29°  ≈03'44	1°02'05	superior conj	2176 Jun 04 11:12	14°  ≈03'48	0°40'14
minimum elong	2175 Jun 20 21:10	29°  ≈02'20	1°01'40	minimum elong	2176 Jun 04 09:32	14°  ≈02'35	0°39'53
	2175 Jun 21 03:17	0°  ≈		max. Earth dist.	2176 Jun 04 02:09	13°  ≈04'02	1.32170 AU
max. Earth dist.	2175 Jun 21 13:48	0°  ≈57'43	1.32379 AU	evening rise	2176 Jun 11 07:54	29°  ≈02'53	
evening rise	2175 Jun 27 23:05	14°  ≈04'02			2176 Jun 11 13:36	0°  ≈	
	2175 Jul 05 18:05	0°  ≈			2176 Jun 28 02:23	0°  ≈	
desc. node	2175 Jul 22 20:45	26°  ≈01'54		desc. node	2176 Jul 08 17:48	13°  ≈02'26	
	2175 Jul 26 01:54	0°  ≈		evening max el	2176 Jul 10 01:18	14°  ≈04'57	26°11'10
evening max el	2175 Jul 29 01:53	3°  ≈03'24	27°04'54	retrograde	2176 Jul 24 00:59	21°  ≈05'42	
retrograde	2175 Aug 11 23:10	10°  ≈01'03		evening set	2176 Jul 30 11:03	20°  ≈01'45	
evening set	2175 Aug 19 00:33	8°  ≈03'09		min. Earth dist.	2176 Aug 03 14:00	17°  ≈03'53	0.59205 AU
min. Earth dist.	2175 Aug 22 16:10	5°  ≈02'47	0.61267 AU	inferior conj	2176 Aug 06 21:18	15°  ≈08'48	-4°53'14
inferior conj	2175 Aug 25 19:42	2°  ≈03'13	-4°21'37	minimum elong	2176 Aug 07 00:03	15°  ≈03'32	4°53'00
minimum elong	2175 Aug 26 00:49	2°  ≈02'50	4°20'35	morning rise	2176 Aug 14 15:12	10°  ≈03'58	
	2175 Aug 28 23:33	30°  ≈08'00		direct	2176 Aug 17 02:22	10°  ≈01'07	
morning rise	2175 Sep 02 02:45	27°  ≈04'32		morning max el	2176 Aug 24 23:25	14°  ≈05'09	18°26'30
direct	2175 Sep 04 12:42	27°  ≈01'33		asc. node	2176 Aug 27 12:42	16°  ≈05'21	
asc. node	2175 Sep 10 15:38	29°  ≈01'58			2176 Sep 04 21:31	0°  ≈	
	2175 Sep 10 16:11	0°  ≈		morning set	2176 Sep 10 01:12	9°  ≈04'15	
morning max el	2175 Sep 11 14:33	0°  ≈51'15	17°59'03				
morning set	2175 Sep 27 10:52	25°  ≈05'07		superior conj	2176 Sep 19 01:56	26°  ≈05'01	1°32'51
	2175 Sep 29 17:13	0°  ≈		minimum elong	2176 Sep 19 05:08	27°  ≈05'49	1°32'35
superior conj	2175 Oct 07 16:26	14°  ≈02'24	1°11'31		2176 Sep 20 19:07	0°  ≈	
minimum elong	2175 Oct 07 20:55	14°  ≈04'02	1°10'59	max. Earth dist.	2176 Sep 26 12:48	10°  ≈01'17	1.40308 AU
max. Earth dist.	2175 Oct 15 05:54	27°  ≈01'34	1.42256 AU	evening rise	2176 Sep 30 22:00	17°  ≈03'58	
	2175 Oct 16 22:16	0°  ≈		desc. node	2176 Oct 04 17:06	23°  ≈04'51	
desc. node	2175 Oct 18 20:04	3°  ≈06'07			2176 Oct 08 15:06	0°  ≈	
evening rise	2175 Oct 21 08:55	7°  ≈09'41		evening max el	2176 Oct 29 23:44	0°  ≈	
	2175 Nov 05 10:42	0°  ≈		retrograde	2176 Nov 04 14:43	6°  ≈16'20	23°35'58
evening max el	2175 Nov 23 00:19	22°  ≈04'15	22°16'12	retrograde	2176 Nov 15 06:18	12°  ≈03'34	
retrograde	2175 Dec 02 13:06	28°  ≈01'59		evening set	2176 Nov 20 07:50	10°  ≈02'39	
evening set	2175 Dec 07 01:34	26°  ≈03'25		asc. node	2176 Nov 23 11:56	7°  ≈02'27	
asc. node	2175 Dec 07 14:55	26°  ≈04'04		min. Earth dist.	2176 Nov 25 05:21	4°  ≈04'44	0.67777 AU
inferior conj	2175 Dec 12 10:01	20°  ≈01'33	1°35'02	inferior conj	2176 Nov 25 17:21	4°  ≈03'58	0°45'27
minimum elong	2175 Dec 12 08:02	20°  ≈01'59	1°34'17	minimum elong	2176 Nov 25 16:18	4°  ≈07'35	0°45'01
min. Earth dist.	2175 Dec 12 08:44	20°  ≈01'36	0.67832 AU		2176 Nov 28 21:30	30°  ≈08'00	
morning rise	2175 Dec 17 14:22	14°  ≈02'14		morning rise	2176 Dec 01 00:43	27°  ≈05'11	
				direct	2176 Dec 05 03:26	26°  ≈02'17	

	2176 Dec 12 05:32	0°♊		transit begin	2177 Nov 09 20:52	18°♍03'57	
morning max el	2176 Dec 13 12:00	1°♊13'03	20°59'26	transit end	2177 Nov 10 01:34	17°♍48'25	
desc. node	2176 Dec 31 16:21	25°♊21'41		asc. node	2177 Nov 10 08:58	17°♍24'04	
	2177 Jan 03 18:54	0°♋		morning rise	2177 Nov 15 11:26	11°♍56'25	
morning set	2177 Jan 12 14:28	13°♋31'32		direct	2177 Nov 19 01:32	10°♍42'14	
max. Earth dist.	2177 Jan 20 16:59	26°♋27'31	1.42680 AU	morning max el	2177 Nov 26 12:47	14°♍57'04	19°49'56
	2177 Jan 22 20:50	0°♌			2177 Dec 08 02:57	0°♊	
				desc. node	2177 Dec 18 13:23	15°♊42'08	
superior conj	2177 Jan 27 17:38	8°♌08'46	-2°04'49	morning set	2177 Dec 22 10:28	21°♊40'07	
minimum elong	2177 Jan 27 16:26	8°♌03'39	2°04'47		2177 Dec 27 19:11	0°♋	
evening rise	2177 Feb 08 09:15	28°♌33'50		max. Earth dist.	2178 Jan 03 03:39	10°♋00'46	1.44164 AU
	2177 Feb 09 04:29	0°♌					
asc. node	2177 Feb 19 11:16	17°♌37'58		superior conj	2178 Jan 08 00:27	17°♋49'27	-1°51'51
evening max el	2177 Feb 25 05:25	25°♌03'37	18°07'22	minimum elong	2178 Jan 07 17:45	17°♋22'22	1°51'24
retrograde	2177 Mar 03 20:13	28°♌27'46			2178 Jan 15 10:04	0°♌	
evening set	2177 Mar 06 13:05	27°♌53'39		evening rise	2178 Jan 21 10:55	10°♌11'35	
inferior conj	2177 Mar 13 01:54	22°♌53'24	3°33'18		2178 Feb 02 08:46	0°♌	
minimum elong	2177 Mar 13 03:42	22°♌49'00	3°33'08	asc. node	2178 Feb 06 08:17	5°♌35'57	
min. Earth dist.	2177 Mar 16 04:38	19°♌51'33	0.61356 AU	evening max el	2178 Feb 08 18:00	8°♌20'08	18°14'55
morning rise	2177 Mar 19 16:38	16°♌59'15		retrograde	2178 Feb 15 04:57	11°♌47'20	
direct	2177 Mar 26 12:17	14°♌38'27		evening set	2178 Feb 18 03:03	11°♌02'26	
desc. node	2177 Mar 29 15:33	15°♌05'59		inferior conj	2178 Feb 24 04:46	5°♌42'38	3°42'56
morning max el	2177 Apr 09 16:55	22°♌33'19	27°47'09	minimum elong	2178 Feb 24 04:38	5°♌42'59	3°42'56
	2177 Apr 16 06:59	0°♍		min. Earth dist.	2178 Feb 26 17:48	2°♌55'03	0.63362 AU
	2177 May 05 12:28	0°♎			2178 Mar 01 18:38	30°♎	
morning set	2177 May 12 13:42	13°♎45'31		morning rise	2178 Mar 02 05:18	29°♎38'23	
asc. node	2177 May 18 10:34	26°♎11'44		direct	2178 Mar 09 03:47	26°♎54'37	
max. Earth dist.	2177 May 18 12:55	26°♎24'32	1.32341 AU	desc. node	2178 Mar 16 12:35	29°♎26'46	
					2178 Mar 17 08:30	0°♌	
superior conj	2177 May 19 21:53	29°♎24'14	0°15'30	morning max el	2178 Mar 23 00:18	4°♌50'46	27°43'15
minimum elong	2177 May 19 21:10	29°♎20'21	0°15'21		2178 Apr 10 23:29	0°♍	
behind sun begin	2177 May 19 19:52	29°♎13'16		morning set	2178 Apr 26 12:04	27°♍53'22	
behind sun end	2177 May 19 22:28	29°♎27'26			2178 Apr 27 13:15	0°♎	
	2177 May 20 04:25	0°♏		max. Earth dist.	2178 May 01 18:01	8°♎42'14	1.32931 AU
evening rise	2177 May 26 19:08	14°♏21'59					
	2177 Jun 03 15:09	0°♐		superior conj	2178 May 04 05:39	14°♎00'30	-0°11'23
evening max el	2177 Jun 21 17:44	25°♐42'12	24°50'40	minimum elong	2178 May 04 06:12	14°♎03'30	0°11'15
desc. node	2177 Jun 25 14:49	28°♐59'01		behind sun begin	2178 May 04 02:26	13°♎43'13	
	2177 Jun 27 02:42	0°♑		behind sun end	2178 May 04 09:58	14°♎23'47	
retrograde	2177 Jul 05 16:45	2°♑46'58		asc. node	2178 May 05 07:35	16°♎20'19	
evening set	2177 Jul 10 21:58	1°♑45'02		evening rise	2178 May 11 06:55	29°♎11'20	
	2177 Jul 14 11:38	30°♑			2178 May 11 16:08	0°♏	
min. Earth dist.	2177 Jul 16 05:05	28°♑56'35	0.57239 AU		2178 May 28 20:05	0°♐	
inferior conj	2177 Jul 19 03:30	27°♑00'41	-4°56'18	evening max el	2178 Jun 03 07:26	6°♐12'53	23°15'52
minimum elong	2177 Jul 19 01:25	27°♑04'08	4°56'12	desc. node	2178 Jun 12 11:50	12°♐15'15	
morning rise	2177 Jul 27 07:33	22°♑52'44		retrograde	2178 Jun 16 20:04	12°♑58'10	
direct	2177 Jul 29 21:57	22°♑33'31		evening set	2178 Jun 20 13:05	12°♑28'01	
morning max el	2177 Aug 07 23:59	26°♑48'09	19°14'55	min. Earth dist.	2178 Jun 27 17:11	9°♑12'42	0.55708 AU
	2177 Aug 10 22:58	0°♒		inferior conj	2178 Jun 29 13:49	8°♑07'08	-4°16'42
asc. node	2177 Aug 14 09:45	4°♒44'21		minimum elong	2178 Jun 29 06:47	8°♑17'30	4°15'19
morning set	2177 Aug 25 00:36	24°♒00'21		morning rise	2178 Jul 08 03:01	4°♑13'15	
	2177 Aug 28 00:39	0°♓		direct	2178 Jul 10 22:20	3°♑54'12	
				morning max el	2178 Jul 21 13:39	8°♑49'55	20°24'38
superior conj	2177 Sep 02 05:06	10°♓14'40	1°43'30	asc. node	2178 Aug 01 06:48	23°♑19'14	
minimum elong	2177 Sep 02 06:26	10°♓21'06	1°43'27		2178 Aug 04 22:15	0°♒	
max. Earth dist.	2177 Sep 08 16:26	22°♓26'36	1.38251 AU	morning set	2178 Aug 09 06:08	8°♒03'03	
evening rise	2177 Sep 12 11:12	29°♓11'51					
	2177 Sep 12 22:14	0°♔		superior conj	2178 Aug 16 20:54	24°♒15'57	1°45'21
desc. node	2177 Sep 21 14:08	14°♔23'37		minimum elong	2178 Aug 16 20:32	24°♒14'03	1°45'21
	2177 Oct 01 23:52	0°♕			2178 Aug 19 17:37	0°♓	
evening max el	2177 Oct 18 02:58	19°♕54'36	24°53'58	max. Earth dist.	2178 Aug 21 22:36	4°♓18'47	1.36329 AU
retrograde	2177 Oct 29 19:35	26°♕42'22		evening rise	2178 Aug 25 21:43	11°♓47'16	
evening set	2177 Nov 04 11:09	24°♕20'11			2178 Sep 05 11:08	0°♔	
min. Earth dist.	2177 Nov 09 00:25	19°♕11'24	0.67387 AU	desc. node	2178 Sep 08 11:09	4°♔44'50	
inferior conj	2177 Nov 09 23:00	17°♕56'53	-0°08'35		2178 Sep 27 04:26	0°♕	
minimum elong	2177 Nov 09 23:13	17°♕56'11	0°08'30	evening max el	2178 Sep 30 15:01	3°♕34'48	26°02'52
transit middle	2177 Nov 09 23:13	17°♕56'11	0°08'30	retrograde	2178 Oct 13 04:04	10°♕42'00	

evening set	2178 Oct 19 09:38	8° \mathbb{M} 06'46		min. Earth dist.	2179 Oct 07 00:04	17° \mathbb{A} 46'48	0.65587 AU
min. Earth dist.	2178 Oct 23 15:29	3° \mathbb{M} 33'31	0.66660 AU	inferior conj	2179 Oct 08 21:42	15° \mathbb{A} 34'45	-2°04'31
inferior conj	2178 Oct 25 01:08	1° \mathbb{M} 48'26	-1°05'48	minimum elong	2179 Oct 09 01:03	15° \mathbb{A} 25'04	2°03'13
minimum elong	2178 Oct 25 02:52	1° \mathbb{M} 43'01	1°05'05	morning rise	2179 Oct 15 01:38	9° \mathbb{A} 55'32	
	2178 Oct 26 12:30	30° \mathbb{R} \mathbb{A}		asc. node	2179 Oct 15 03:03	9° \mathbb{A} 53'45	
asc. node	2178 Oct 28 06:00	28° \mathbb{A} 04'54		direct	2179 Oct 17 21:01	9° \mathbb{A} 12'15	
morning rise	2178 Oct 30 20:29	25° \mathbb{A} 57'01		morning max el	2179 Oct 24 10:10	12° \mathbb{A} 45'24	18°16'56
direct	2178 Nov 03 00:04	25° \mathbb{A} 00'09			2179 Nov 05 15:51	0° \mathbb{M}	
morning max el	2178 Nov 09 20:49	28° \mathbb{A} 49'20	18°55'17	morning set	2179 Nov 12 10:03	10° \mathbb{M} 59'05	
	2178 Nov 10 23:32	0° \mathbb{M}		desc. node	2179 Nov 22 07:26	26° \mathbb{M} 56'07	
	2178 Dec 01 10:49	0° \mathbb{A}			2179 Nov 24 05:40	0° \mathbb{A}	
morning set	2178 Dec 01 20:11	0° \mathbb{A} 36'46					
desc. node	2178 Dec 05 10:25	6° \mathbb{A} 15'04		superior conj	2179 Nov 27 10:35	5° \mathbb{A} 04'13	-0°34'00
max. Earth dist.	2178 Dec 16 20:01	24° \mathbb{A} 08'12	1.45006 AU	minimum elong	2179 Nov 27 06:12	4° \mathbb{A} 46'55	0°33'24
				max. Earth dist.	2179 Nov 29 15:16	8° \mathbb{A} 31'35	1.45118 AU
superior conj	2178 Dec 18 08:47	26° \mathbb{A} 32'53	-1°19'49		2179 Dec 13 08:39	0° \mathbb{B}	
minimum elong	2178 Dec 18 00:01	25° \mathbb{A} 58'21	1°18'53	evening rise	2179 Dec 13 18:21	0° \mathbb{B} 37'52	
	2178 Dec 20 13:18	0° \mathbb{B}		greatest brilliancy	2179 Dec 25 04:53	18° \mathbb{B} 24'15	-0.7m
evening rise	2179 Jan 02 14:11	20° \mathbb{B} 52'16			2180 Jan 02 04:40	0° \mathbb{A}	
	2179 Jan 08 05:01	0° \mathbb{A}		evening max el	2180 Jan 06 13:55	5° \mathbb{A} 14'19	19°23'48
evening max el	2179 Jan 23 05:37	21° \mathbb{A} 45'34	18°40'49	asc. node	2180 Jan 11 02:21	8° \mathbb{A} 43'25	
asc. node	2179 Jan 24 05:18	22° \mathbb{A} 42'40		retrograde	2180 Jan 13 17:37	9° \mathbb{A} 21'14	
retrograde	2179 Jan 29 21:12	25° \mathbb{A} 27'29		evening set	2180 Jan 17 04:26	8° \mathbb{A} 11'35	
evening set	2179 Feb 02 01:05	24° \mathbb{A} 30'48		inferior conj	2180 Jan 22 17:08	2° \mathbb{A} 18'03	3°12'52
inferior conj	2179 Feb 07 18:58	18° \mathbb{A} 53'04	3°34'35	minimum elong	2180 Jan 22 14:44	2° \mathbb{A} 25'47	3°12'23
minimum elong	2179 Feb 07 17:24	18° \mathbb{A} 57'50	3°34'24	min. Earth dist.	2180 Jan 23 23:33	0° \mathbb{A} 39'28	0.66334 AU
min. Earth dist.	2179 Feb 09 16:24	16° \mathbb{A} 35'51	0.65048 AU		2180 Jan 24 11:57	30° \mathbb{R} \mathbb{B}	
morning rise	2179 Feb 13 09:15	12° \mathbb{A} 43'27		morning rise	2180 Jan 28 00:49	26° \mathbb{B} 05'42	
direct	2179 Feb 20 02:30	9° \mathbb{A} 51'35		direct	2180 Feb 03 07:11	23° \mathbb{B} 19'11	
desc. node	2179 Mar 03 09:37	15° \mathbb{A} 42'55			2180 Feb 15 01:28	0° \mathbb{A}	
morning max el	2179 Mar 05 09:50	17° \mathbb{A} 38'29	27°05'23	morning max el	2180 Feb 15 19:16	0° \mathbb{A} 44'08	26°00'57
	2179 Mar 15 18:29	0° \mathbb{H}		desc. node	2180 Feb 18 06:39	3° \mathbb{A} 21'31	
	2179 Apr 03 20:42	0° \mathbb{Y}			2180 Mar 08 18:20	0° \mathbb{H}	
morning set	2179 Apr 10 00:59	11° \mathbb{Y} 29'15		morning set	2180 Mar 23 00:25	24° \mathbb{H} 20'50	
max. Earth dist.	2179 Apr 14 13:50	20° \mathbb{Y} 28'55	1.33973 AU		2180 Mar 26 00:29	0° \mathbb{Y}	
				max. Earth dist.	2180 Mar 26 22:16	1° \mathbb{Y} 44'42	1.35472 AU
superior conj	2179 Apr 18 08:32	28° \mathbb{Y} 17'42	-0°39'22				
minimum elong	2179 Apr 18 10:32	28° \mathbb{Y} 28'09	0°38'57	superior conj	2180 Apr 01 04:03	12° \mathbb{Y} 07'56	-1°07'06
	2179 Apr 19 04:00	0° \mathbb{B}		minimum elong	2180 Apr 01 07:25	12° \mathbb{Y} 25'02	1°06'31
asc. node	2179 Apr 22 04:38	6° \mathbb{B} 24'30		asc. node	2180 Apr 08 01:40	26° \mathbb{Y} 19'37	
evening rise	2179 Apr 25 17:26	13° \mathbb{B} 52'10		evening rise	2180 Apr 09 00:39	28° \mathbb{Y} 17'38	
	2179 May 03 23:19	0° \mathbb{H}			2180 Apr 09 20:42	0° \mathbb{B}	
evening max el	2179 May 16 01:45	16° \mathbb{H} 48'20	21°41'52	evening max el	2180 Apr 27 06:25	27° \mathbb{B} 53'49	20°20'26
retrograde	2179 May 28 11:39	22° \mathbb{H} 53'54			2180 Apr 29 16:55	0° \mathbb{H}	
desc. node	2179 May 30 08:50	22° \mathbb{H} 45'52		retrograde	2180 May 08 00:59	3° \mathbb{H} 07'23	
evening set	2179 May 31 00:11	22° \mathbb{H} 39'35		evening set	2180 May 10 01:57	2° \mathbb{H} 56'56	
inferior conj	2179 Jun 09 09:58	18° \mathbb{H} 37'40	-2°49'14	desc. node	2180 May 16 05:51	0° \mathbb{H} 39'12	
minimum elong	2179 Jun 09 02:39	18° \mathbb{H} 47'54	2°46'55		2180 May 17 10:27	30° \mathbb{R} \mathbb{B}	
min. Earth dist.	2179 Jun 09 04:52	18° \mathbb{H} 44'48	0.54947 AU	inferior conj	2180 May 19 04:52	28° \mathbb{B} 58'45	-0°51'53
morning rise	2179 Jun 18 06:09	14° \mathbb{H} 42'49		minimum elong	2180 May 19 02:25	29° \mathbb{B} 02'20	0°50'59
direct	2179 Jun 21 10:02	14° \mathbb{H} 20'52		min. Earth dist.	2180 May 20 17:31	28° \mathbb{B} 05'06	0.55131 AU
morning max el	2179 Jul 03 15:46	20° \mathbb{H} 06'37	21°53'25	morning rise	2180 May 28 01:37	24° \mathbb{B} 43'35	
	2179 Jul 11 19:56	0° \mathbb{B}		direct	2180 May 31 21:13	24° \mathbb{B} 12'05	
asc. node	2179 Jul 19 03:52	12° \mathbb{B} 26'52			2180 Jun 13 12:39	0° \mathbb{H}	
morning set	2179 Jul 24 15:32	23° \mathbb{B} 25'38		morning max el	2180 Jun 14 09:13	0° \mathbb{H} 47'03	23°34'14
	2179 Jul 27 18:29	0° \mathbb{Q}			2180 Jul 04 01:04	0° \mathbb{B}	
				asc. node	2180 Jul 05 00:55	1° \mathbb{B} 58'51	
superior conj	2179 Jul 31 21:31	8° \mathbb{Q} 43'26	1°40'03	morning set	2180 Jul 08 02:59	8° \mathbb{B} 20'41	
minimum elong	2179 Jul 31 19:56	8° \mathbb{Q} 35'07	1°39'58				
max. Earth dist.	2179 Aug 04 12:37	16° \mathbb{Q} 13'50	1.34715 AU	superior conj	2180 Jul 15 04:01	23° \mathbb{B} 28'21	1°28'58
evening rise	2179 Aug 09 00:59	25° \mathbb{Q} 10'57		minimum elong	2180 Jul 15 01:46	23° \mathbb{B} 16'14	1°28'42
	2179 Aug 11 14:00	0° \mathbb{H}		max. Earth dist.	2180 Jul 17 11:55	28° \mathbb{B} 27'03	1.33484 AU
desc. node	2179 Aug 26 08:09	24° \mathbb{H} 46'07			2180 Jul 18 05:31	0° \mathbb{Q}	
	2179 Aug 29 22:23	0° \mathbb{B}		evening rise	2180 Jul 22 16:41	9° \mathbb{Q} 10'58	
evening max el	2179 Sep 13 03:26	17° \mathbb{B} 10'09	26°54'57		2180 Aug 02 23:52	0° \mathbb{H}	
retrograde	2179 Sep 26 07:00	24° \mathbb{B} 26'14		desc. node	2180 Aug 12 05:10	14° \mathbb{H} 18'59	
evening set	2179 Oct 03 01:08	21° \mathbb{B} 43'31			2180 Aug 25 02:53	0° \mathbb{B}	

evening max el	2180 Aug 25 15:07	0° Ω 29'29	27°22'59	desc. node	2181 Jul 30 02:13	3° Π 10'59	
retrograde	2180 Sep 08 04:07	7° Ω 47'27		evening max el	2181 Aug 07 23:49	13° Π 18'50	27°21'02
evening set	2180 Sep 15 07:00	5° Ω 05'57		retrograde	2181 Aug 21 18:52	20° Π 35'14	
min. Earth dist.	2180 Sep 18 23:58	1° Ω 44'18	0.64155 AU	evening set	2181 Aug 28 23:37	18° Π 07'03	
	2180 Sep 20 15:47	30° \mathbb{R} Π		min. Earth dist.	2181 Sep 01 13:41	15° Π 13'57	0.62390 AU
inferior conj	2180 Sep 21 10:19	29° Π 10'53	-3°02'21	inferior conj	2181 Sep 04 12:01	12° Π 28'59	-3°55'29
minimum elong	2180 Sep 21 15:04	28° Π 58'21	3°00'44	minimum elong	2181 Sep 04 17:26	12° Π 16'15	3°54'06
morning rise	2180 Sep 28 00:13	23° Π 47'19		morning rise	2181 Sep 11 12:46	7° Π 24'23	
direct	2180 Sep 30 13:50	23° Π 14'03		direct	2181 Sep 13 23:10	6° Π 57'58	
asc. node	2180 Oct 01 00:06	23° Π 14'59		asc. node	2181 Sep 17 21:10	8° Π 08'22	
morning max el	2180 Oct 07 02:15	26° Π 39'59	17°55'45	morning max el	2181 Sep 20 18:01	10° Π 25'07	17°52'28
	2180 Oct 09 23:33	0° Ω			2181 Oct 03 17:43	0° Ω	
morning set	2180 Oct 24 03:47	22° Ω 43'04		morning set	2181 Oct 06 19:19	5° Ω 28'57	
	2180 Oct 28 10:40	0° \mathbb{M}					
superior conj	2180 Nov 06 03:17	14° \mathbb{M} 23'36	0°13'52	superior conj	2181 Oct 17 22:07	25° Ω 00'18	0°53'48
minimum elong	2180 Nov 06 04:51	14° \mathbb{M} 29'56	0°13'39	minimum elong	2181 Oct 18 02:30	25° Ω 18'52	0°53'13
behind sun begin	2180 Nov 05 23:22	14° \mathbb{M} 07'42			2181 Oct 20 21:17	0° \mathbb{M}	
behind sun end	2180 Nov 06 10:20	14° \mathbb{M} 52'10		max. Earth dist.	2181 Oct 25 00:44	6° \mathbb{M} 49'21	1.43216 AU
desc. node	2180 Nov 08 04:28	17° \mathbb{M} 42'18		desc. node	2181 Oct 26 01:30	8° \mathbb{M} 29'41	
max. Earth dist.	2180 Nov 11 10:00	22° \mathbb{M} 52'14	1.44494 AU	evening rise	2181 Nov 01 15:47	18° \mathbb{M} 57'14	
	2180 Nov 15 22:33	0° \mathbb{X}			2181 Nov 08 20:51	0° \mathbb{X}	
evening rise	2180 Nov 22 06:03	9° \mathbb{X} 47'36		evening max el	2181 Nov 30 12:58	0° \mathbb{Z}	
	2180 Dec 05 14:36	0° \mathbb{Z}		evening max el	2181 Dec 02 14:58	2° \mathbb{Z} 15'07	21°31'59
evening max el	2180 Dec 19 17:17	18° \mathbb{Z} 44'29	20°21'49	retrograde	2181 Dec 11 13:00	7° \mathbb{Z} 33'25	
retrograde	2180 Dec 27 15:36	23° \mathbb{Z} 24'31		asc. node	2181 Dec 14 20:26	6° \mathbb{Z} 33'02	
asc. node	2180 Dec 27 23:23	23° \mathbb{Z} 23'56		evening set	2181 Dec 15 18:35	5° \mathbb{Z} 53'57	
evening set	2180 Dec 31 10:54	22° \mathbb{Z} 00'38			2181 Dec 20 20:37	30° \mathbb{R} \mathbb{X}	
inferior conj	2181 Jan 05 20:35	15° \mathbb{Z} 54'05	2°40'59	inferior conj	2181 Dec 21 03:02	29° \mathbb{X} 37'47	2°01'05
minimum elong	2181 Jan 05 17:58	16° \mathbb{Z} 02'57	2°40'15	minimum elong	2181 Dec 21 00:41	29° \mathbb{X} 45'54	2°00'16
min. Earth dist.	2181 Jan 06 13:34	14° \mathbb{Z} 56'29	0.67213 AU	min. Earth dist.	2181 Dec 21 08:07	29° \mathbb{X} 20'12	0.67707 AU
morning rise	2181 Jan 11 00:51	9° \mathbb{Z} 40'44		morning rise	2181 Dec 26 06:38	23° \mathbb{X} 25'16	
direct	2181 Jan 16 17:16	7° \mathbb{Z} 09'20		direct	2181 Dec 31 08:03	21° \mathbb{X} 14'29	
morning max el	2181 Jan 28 03:56	13° \mathbb{Z} 59'00	24°39'24	morning max el	2182 Jan 10 13:09	27° \mathbb{X} 18'39	23°10'58
desc. node	2181 Feb 04 03:41	21° \mathbb{Z} 59'00			2182 Jan 13 01:30	0° \mathbb{Z}	
	2181 Feb 10 04:52	0° \approx		desc. node	2182 Jan 22 00:44	11° \mathbb{Z} 18'18	
	2181 Mar 01 14:47	0° \mathbb{H}			2182 Feb 03 20:39	0° \approx	
morning set	2181 Mar 05 05:05	6° \mathbb{H} 13'27		morning set	2182 Feb 14 08:45	16° \approx 50'58	
max. Earth dist.	2181 Mar 08 20:52	12° \mathbb{H} 47'16	1.37369 AU	max. Earth dist.	2182 Feb 18 15:39	24° \approx 08'57	1.39498 AU
					2182 Feb 21 23:30	0° \mathbb{H}	
superior conj	2181 Mar 15 13:01	25° \mathbb{H} 22'43	-1°32'36	superior conj	2182 Feb 26 07:25	7° \mathbb{H} 51'52	-1°53'01
minimum elong	2181 Mar 15 17:17	25° \mathbb{H} 43'26	1°32'03	minimum elong	2182 Feb 26 11:21	8° \mathbb{H} 10'06	1°52'43
	2181 Mar 17 21:38	0° \mathbb{Y}		evening rise	2182 Mar 07 19:22	25° \mathbb{H} 54'28	
evening rise	2181 Mar 24 02:15	12° \mathbb{Y} 20'56			2182 Mar 09 22:40	0° \mathbb{Y}	
asc. node	2181 Mar 25 22:43	16° \mathbb{Y} 01'04		asc. node	2182 Mar 12 19:46	5° \mathbb{Y} 23'31	
	2181 Apr 02 14:27	0° \mathbb{B}		evening max el	2182 Mar 24 01:05	22° \mathbb{Y} 02'13	18°34'36
evening max el	2181 Apr 09 22:50	9° \mathbb{B} 39'27	19°17'27	retrograde	2182 Mar 31 19:00	25° \mathbb{Y} 50'01	
retrograde	2181 Apr 19 01:01	14° \mathbb{B} 03'31		evening set	2182 Apr 03 02:53	25° \mathbb{Y} 30'37	
evening set	2181 Apr 21 03:05	13° \mathbb{B} 50'37		inferior conj	2182 Apr 10 16:56	21° \mathbb{Y} 03'23	2°25'53
inferior conj	2181 Apr 29 12:39	9° \mathbb{B} 41'41	1°01'12	minimum elong	2182 Apr 10 20:55	20° \mathbb{Y} 55'39	2°24'51
minimum elong	2181 Apr 29 15:05	9° \mathbb{B} 37'38	1°00'22	min. Earth dist.	2182 Apr 14 02:41	18° \mathbb{Y} 25'56	0.58010 AU
min. Earth dist.	2181 May 02 08:21	7° \mathbb{B} 49'45	0.56230 AU	morning rise	2182 Apr 18 11:52	15° \mathbb{Y} 41'51	
desc. node	2181 May 03 02:54	7° \mathbb{B} 20'28		desc. node	2182 Apr 19 23:56	15° \mathbb{Y} 03'31	
morning rise	2181 May 08 00:09	4° \mathbb{B} 52'42		direct	2182 Apr 24 07:37	14° \mathbb{Y} 15'53	
direct	2181 May 12 19:08	3° \mathbb{B} 59'57		morning max el	2182 May 08 16:44	21° \mathbb{Y} 53'50	26°38'01
morning max el	2181 May 26 23:41	11° \mathbb{B} 13'39	25°14'18		2182 May 15 19:27	0° \mathbb{B}	
	2181 Jun 10 07:36	0° \mathbb{I}			2182 Jun 03 01:48	0° \mathbb{I}	
asc. node	2181 Jun 21 21:58	21° \mathbb{I} 48'06		morning set	2182 Jun 07 01:18	8° \mathbb{I} 07'38	
morning set	2181 Jun 22 14:46	23° \mathbb{I} 16'24		asc. node	2182 Jun 08 19:02	11° \mathbb{I} 49'10	
	2181 Jun 25 18:01	0° \mathbb{E}					
superior conj	2181 Jun 29 14:03	8° \mathbb{E} 22'48	1°13'05	superior conj	2182 Jun 14 01:44	23° \mathbb{I} 20'34	0°53'13
minimum elong	2181 Jun 29 11:39	8° \mathbb{E} 09'43	1°12'42	minimum elong	2182 Jun 13 23:40	23° \mathbb{I} 09'14	0°52'49
max. Earth dist.	2181 Jun 30 18:45	10° \mathbb{E} 59'24	1.32660 AU	max. Earth dist.	2182 Jun 14 06:00	23° \mathbb{I} 44'04	1.32235 AU
evening rise	2181 Jul 06 17:10	23° \mathbb{E} 36'22			2182 Jun 17 02:34	0° \mathbb{E}	
	2181 Jul 09 21:23	0° \mathbb{Q}		evening rise	2182 Jun 20 23:39	8° \mathbb{E} 18'40	
	2181 Jul 27 17:40	0° \mathbb{P}			2182 Jul 02 07:31	0° \mathbb{Q}	
				desc. node	2182 Jul 16 23:15	21° \mathbb{Q} 05'13	

evening max el	2182 Jul 21 03:13	25° Ω 27'30	26°45'56		2183 Jun 26 20:24	0° Ω	
	2182 Jul 26 20:56	0° \mathbb{M}		evening max el	2183 Jul 02 23:39	6° Ω 49'21	25°39'39
retrograde	2182 Aug 04 02:10	2° \mathbb{M} 40'43		desc. node	2183 Jul 03 20:15	7° Ω 37'18	
evening set	2182 Aug 10 22:30	0° \mathbb{M} 39'37		retrograde	2183 Jul 16 23:56	13° Ω 57'50	
	2182 Aug 12 00:17	30° \mathbb{R} Ω		evening set	2183 Jul 22 23:00	12° Ω 33'58	
min. Earth dist.	2182 Aug 14 17:09	28° Ω 02'02	0.60390 AU	min. Earth dist.	2183 Jul 27 11:53	9° Ω 54'28	0.58338 AU
inferior conj	2182 Aug 17 23:26	25° Ω 20'59	-4°37'41	inferior conj	2183 Jul 30 17:02	7° Ω 36'54	-4°58'55
minimum elong	2182 Aug 18 03:53	25° Ω 11'48	4°37'00	minimum elong	2183 Jul 30 18:00	7° Ω 35'10	4°58'54
morning rise	2182 Aug 25 11:12	20° Ω 37'54		morning rise	2183 Aug 07 15:18	3° Ω 16'23	
direct	2182 Aug 27 21:11	20° Ω 15'42		direct	2183 Aug 10 03:36	2° Ω 56'22	
morning max el	2182 Sep 04 06:18	23° Ω 52'55	18°08'13	morning max el	2183 Aug 18 11:53	6° Ω 53'59	18°44'26
asc. node	2182 Sep 04 18:13	24° Ω 22'35		asc. node	2183 Aug 22 15:16	11° Ω 42'15	
	2182 Sep 09 05:19	0° \mathbb{M}			2183 Sep 02 07:23	0° \mathbb{M}	
morning set	2182 Sep 20 02:42	19° \mathbb{M} 00'09		morning set	2183 Sep 03 21:17	3° \mathbb{M} 03'56	
	2182 Sep 26 00:08	0° Ω					
superior conj	2182 Sep 29 18:52	6° Ω 52'46	1°21'57	superior conj	2183 Sep 12 12:28	19° \mathbb{M} 46'58	1°38'33
minimum elong	2182 Sep 29 22:58	7° Ω 11'08	1°21'32	minimum elong	2183 Sep 12 14:53	19° \mathbb{M} 58'24	1°38'24
max. Earth dist.	2182 Oct 07 09:59	20° Ω 09'01	1.41455 AU		2183 Sep 18 01:28	0° Ω	
evening rise	2182 Oct 12 16:01	28° Ω 48'42		max. Earth dist.	2183 Sep 19 15:01	2° Ω 47'10	1.39432 AU
desc. node	2182 Oct 12 22:33	29° Ω 15'02		evening rise	2183 Sep 23 15:23	9° Ω 44'31	
	2182 Oct 13 09:43	0° \mathbb{M}		desc. node	2183 Sep 29 19:34	19° Ω 54'45	
	2182 Nov 02 11:40	0° \mathbb{M}			2183 Oct 06 07:42	0° \mathbb{M}	
evening max el	2182 Nov 15 07:38	15° \mathbb{M} 47'52	22°49'58	evening max el	2183 Oct 28 21:02	29° \mathbb{M} 24'29	24°09'55
retrograde	2182 Nov 25 08:05	21° \mathbb{M} 44'44			2183 Oct 29 11:33	0° \mathbb{M}	
evening set	2182 Nov 30 01:49	19° \mathbb{M} 48'40		retrograde	2183 Nov 08 23:36	5° \mathbb{M} 55'24	
asc. node	2182 Dec 01 17:28	18° \mathbb{M} 12'49		evening set	2183 Nov 14 07:00	3° \mathbb{M} 42'27	
inferior conj	2182 Dec 05 10:33	13° \mathbb{M} 26'41	1°14'40		2183 Nov 17 16:47	30° \mathbb{R} \mathbb{M}	
minimum elong	2182 Dec 05 08:55	13° \mathbb{M} 32'20	1°14'01	asc. node	2183 Nov 18 14:29	28° \mathbb{M} 49'06	
min. Earth dist.	2182 Dec 05 04:44	13° \mathbb{M} 46'48	0.67848 AU	min. Earth dist.	2183 Nov 19 00:59	28° \mathbb{M} 13'57	0.67650 AU
morning rise	2182 Dec 10 15:54	7° \mathbb{M} 17'00		inferior conj	2183 Nov 19 17:22	27° \mathbb{M} 18'39	0°23'04
direct	2182 Dec 15 02:39	5° \mathbb{M} 28'58		minimum elong	2183 Nov 19 16:49	27° \mathbb{M} 20'32	0°22'49
morning max el	2182 Dec 24 02:14	10° \mathbb{M} 44'59	21°44'56	morning rise	2183 Nov 25 02:38	21° \mathbb{M} 14'11	
	2183 Jan 08 03:00	0° \mathbb{Z}		direct	2183 Nov 28 23:52	19° \mathbb{M} 48'12	
desc. node	2183 Jan 08 21:46	1° \mathbb{Z} 07'33		morning max el	2183 Dec 06 22:22	24° \mathbb{M} 22'10	20°28'14
morning set	2183 Jan 25 07:13	26° \mathbb{Z} 04'18			2183 Dec 11 19:32	0° \mathbb{M}	
	2183 Jan 27 17:51	0° \approx		desc. node	2183 Dec 26 18:48	21° \mathbb{M} 18'31	
max. Earth dist.	2183 Jan 31 14:28	6° \approx 19'46	1.41601 AU		2184 Jan 01 12:00	0° \mathbb{Z}	
				morning set	2184 Jan 04 06:59	4° \mathbb{Z} 18'22	
superior conj	2183 Feb 08 06:10	19° \approx 22'57	-2°04'21	max. Earth dist.	2184 Jan 13 21:27	19° \mathbb{Z} 28'13	1.43384 AU
minimum elong	2183 Feb 08 07:37	19° \approx 29'16	2°04'19				
	2183 Feb 14 04:55	0° \mathbb{H}		superior conj	2184 Jan 20 04:20	29° \mathbb{Z} 45'17	-2°01'38
evening rise	2183 Feb 19 00:27	8° \mathbb{H} 49'18		minimum elong	2184 Jan 20 00:47	29° \mathbb{Z} 30'31	2°01'30
asc. node	2183 Feb 27 16:48	24° \mathbb{H} 19'49			2184 Jan 20 07:53	0° \approx	
	2183 Mar 03 08:54	0° \mathbb{Y}		evening rise	2184 Feb 01 13:23	20° \approx 57'42	
evening max el	2183 Mar 07 09:50	4° \mathbb{Y} 52'28	18°11'41		2184 Feb 06 17:25	0° \mathbb{H}	
retrograde	2183 Mar 14 07:06	8° \mathbb{Y} 20'27		asc. node	2184 Feb 14 13:49	12° \mathbb{H} 42'03	
evening set	2183 Mar 16 21:00	7° \mathbb{Y} 52'00		evening max el	2184 Feb 18 21:54	18° \mathbb{H} 01'47	18°08'13
inferior conj	2183 Mar 23 17:56	3° \mathbb{Y} 03'50	3°17'08	retrograde	2184 Feb 25 09:42	21° \mathbb{H} 25'20	
minimum elong	2183 Mar 23 20:50	2° \mathbb{Y} 57'16	3°16'40	evening set	2184 Feb 28 04:55	20° \mathbb{H} 46'35	
min. Earth dist.	2183 Mar 27 02:18	0° \mathbb{Y} 03'40	0.60129 AU	inferior conj	2184 Mar 05 12:33	15° \mathbb{H} 37'41	3°39'56
	2183 Mar 27 04:01	30° \mathbb{R} \mathbb{H}		minimum elong	2184 Mar 05 13:30	15° \mathbb{H} 35'14	3°39'53
morning rise	2183 Mar 30 18:29	27° \mathbb{H} 19'09		min. Earth dist.	2184 Mar 08 09:50	12° \mathbb{H} 39'47	0.62249 AU
direct	2183 Apr 06 08:26	25° \mathbb{H} 16'38		morning rise	2184 Mar 11 20:50	9° \mathbb{H} 38'45	
desc. node	2183 Apr 06 20:58	25° \mathbb{H} 17'23		direct	2184 Mar 18 18:55	7° \mathbb{H} 06'42	
	2183 Apr 17 04:12	0° \mathbb{Y}		desc. node	2184 Mar 23 17:59	8° \mathbb{H} 15'47	
morning max el	2183 Apr 20 15:28	3° \mathbb{Y} 07'01	27°32'14	morning max el	2184 Apr 01 20:17	15° \mathbb{H} 02'04	27°49'54
	2183 May 10 07:33	0° \mathbb{B}			2184 Apr 14 00:29	0° \mathbb{Y}	
morning set	2183 May 22 08:46	22° \mathbb{B} 47'16			2184 May 01 20:38	0° \mathbb{B}	
	2183 May 25 18:32	0° \mathbb{H}		morning set	2184 May 05 11:10	7° \mathbb{B} 08'52	
asc. node	2183 May 26 16:04	1° \mathbb{H} 56'22		max. Earth dist.	2184 May 11 02:56	19° \mathbb{B} 00'49	1.32552 AU
max. Earth dist.	2183 May 28 18:01	6° \mathbb{H} 28'51	1.32196 AU				
superior conj	2183 May 29 13:14	8° \mathbb{H} 14'25	0°30'03	superior conj	2184 May 12 22:54	22° \mathbb{B} 58'41	0°04'19
minimum elong	2183 May 29 11:56	8° \mathbb{H} 07'14	0°29'47	minimum elong	2184 May 12 22:42	22° \mathbb{B} 57'36	0°04'17
				behind sun begin	2184 May 12 17:42	22° \mathbb{B} 30'28	
evening rise	2183 Jun 05 09:44	23° \mathbb{H} 09'01		behind sun end	2184 May 13 03:41	23° \mathbb{B} 24'45	
	2183 Jun 08 17:06	0° \mathbb{B}		asc. node	2184 May 12 13:06	22° \mathbb{B} 05'31	
					2184 May 16 04:13	0° \mathbb{H}	

evening rise	2184 May 19 21:26	8° Π 00'42		evening rise	2185 May 04 08:57	22° \mathcal{B} 47'29	
	2184 May 31 08:47	0° \mathfrak{D}			2185 May 07 20:54	0° Π	
evening max el	2184 Jun 13 14:12	17° \mathfrak{D} 31'38	24°11'02	evening max el	2185 May 26 04:48	28° Π 00'06	22°34'49
desc. node	2184 Jun 19 17:16	22° \mathfrak{D} 15'30			2185 May 28 10:26	0° \mathfrak{D}	
retrograde	2184 Jun 27 09:57	24° \mathfrak{D} 29'29		desc. node	2185 Jun 06 14:16	4° \mathfrak{D} 24'30	
evening set	2184 Jul 02 00:10	23° \mathfrak{D} 42'39		retrograde	2185 Jun 08 07:58	4° \mathfrak{D} 31'25	
min. Earth dist.	2184 Jul 08 00:59	20° \mathfrak{D} 44'27	0.56521 AU	evening set	2185 Jun 11 11:17	4° \mathfrak{D} 09'44	
inferior conj	2184 Jul 10 14:28	19° \mathfrak{D} 08'43	-4°45'24	min. Earth dist.	2185 Jun 19 12:26	0° \mathfrak{D} 39'24	0.55276 AU
minimum elong	2184 Jul 10 10:01	19° \mathfrak{D} 15'41	4°44'53	inferior conj	2185 Jun 20 17:38	29° Π 57'50	-3°44'58
morning rise	2184 Jul 18 22:32	15° \mathfrak{D} 08'04		minimum elong	2185 Jun 20 09:42	0° \mathfrak{D} 09'08	3°42'57
direct	2184 Jul 21 15:04	14° \mathfrak{D} 48'58			2185 Jun 20 16:07	30° \mathcal{R} Π	
morning max el	2184 Jul 31 07:53	19° \mathfrak{D} 19'11	19°42'04	morning rise	2185 Jun 29 10:20	26° Π 06'16	
asc. node	2184 Aug 08 12:19	29° \mathfrak{D} 53'09		direct	2185 Jul 02 08:38	25° Π 46'37	
	2184 Aug 08 14:00	0° \mathcal{Q}			2185 Jul 12 12:16	0° \mathfrak{D}	
morning set	2184 Aug 17 23:34	17° \mathcal{Q} 30'45		morning max el	2185 Jul 13 16:40	1° \mathfrak{D} 02'25	21°00'28
	2184 Aug 24 03:50	0° \mathcal{P}		asc. node	2185 Jul 26 09:22	18° \mathfrak{D} 43'23	
					2185 Aug 01 04:57	0° \mathcal{Q}	
superior conj	2184 Aug 25 21:29	3° \mathcal{P} 27'32	1°45'15	morning set	2185 Aug 02 07:02	2° \mathcal{Q} 13'48	
minimum elong	2184 Aug 25 22:03	3° \mathcal{P} 30'17	1°45'15				
max. Earth dist.	2184 Aug 31 19:22	14° \mathcal{P} 50'52	1.37404 AU	superior conj	2185 Aug 09 17:31	17° \mathcal{Q} 41'58	1°43'54
evening rise	2184 Sep 04 14:05	21° \mathcal{P} 45'36		minimum elong	2185 Aug 09 16:34	17° \mathcal{Q} 37'03	1°43'52
	2184 Sep 09 07:40	0° \mathfrak{L}		max. Earth dist.	2185 Aug 14 04:28	26° \mathcal{Q} 41'56	1.35593 AU
desc. node	2184 Sep 15 16:35	10° \mathfrak{L} 24'07			2185 Aug 15 20:57	0° \mathcal{P}	
	2184 Sep 29 05:04	0° \mathcal{M}		evening rise	2185 Aug 18 08:20	4° \mathcal{P} 43'20	
evening max el	2184 Oct 10 09:01	13° \mathcal{M} 03'40	25°24'56		2185 Sep 02 03:43	0° \mathfrak{L}	
retrograde	2184 Oct 22 10:42	20° \mathcal{M} 00'29		desc. node	2185 Sep 02 13:37	0° \mathfrak{L} 38'01	
evening set	2184 Oct 28 08:26	17° \mathcal{M} 32'08		evening max el	2185 Sep 22 21:04	26° \mathfrak{L} 42'18	26°27'27
min. Earth dist.	2184 Nov 01 18:29	12° \mathcal{M} 38'33	0.67119 AU		2185 Sep 26 15:28	0° \mathcal{M}	
inferior conj	2184 Nov 02 21:42	11° \mathcal{M} 10'40	-0°32'34	retrograde	2185 Oct 05 16:56	3° \mathcal{M} 54'50	
minimum elong	2184 Nov 02 22:32	11° \mathcal{M} 07'59	0°32'12	evening set	2185 Oct 12 04:15	1° \mathcal{M} 15'10	
asc. node	2184 Nov 04 11:31	9° \mathcal{M} 11'03			2185 Oct 13 13:10	30° \mathcal{R} \mathfrak{L}	
morning rise	2184 Nov 08 12:52	5° \mathcal{M} 13'56		min. Earth dist.	2185 Oct 16 06:58	26° \mathfrak{L} 57'45	0.66247 AU
direct	2184 Nov 11 22:18	4° \mathcal{M} 07'30		inferior conj	2185 Oct 17 21:43	25° \mathfrak{L} 00'21	-1°30'41
morning max el	2184 Nov 19 02:24	8° \mathcal{M} 09'45	19°24'53	minimum elong	2185 Oct 18 00:08	24° \mathfrak{L} 53'01	1°29'41
greatest brilliancy	2184 Dec 02 15:27	26° \mathcal{M} 22'21	-0.7m	asc. node	2185 Oct 22 08:33	20° \mathfrak{L} 15'59	
	2184 Dec 05 00:48	0° \mathcal{X}		morning rise	2185 Oct 23 20:34	19° \mathfrak{L} 14'01	
desc. node	2184 Dec 12 15:49	11° \mathcal{X} 44'33		direct	2185 Oct 26 20:20	18° \mathfrak{L} 23'31	
morning set	2184 Dec 13 05:58	12° \mathcal{X} 39'22		morning max el	2185 Nov 02 13:05	22° \mathfrak{L} 04'44	18°36'59
	2184 Dec 24 08:44	0° \mathfrak{Z}			2185 Nov 08 20:43	0° \mathcal{M}	
max. Earth dist.	2184 Dec 26 11:23	3° \mathfrak{Z} 19'49	1.44608 AU	morning set	2185 Nov 23 02:50	22° \mathcal{M} 10'21	
					2185 Nov 28 01:07	0° \mathcal{X}	
superior conj	2184 Dec 30 00:20	8° \mathfrak{Z} 57'12	-1°40'30	desc. node	2185 Nov 29 12:51	2° \mathcal{X} 21'20	
minimum elong	2184 Dec 29 16:00	8° \mathfrak{Z} 23'55	1°39'47				
	2185 Jan 11 22:17	0° \mathfrak{A}		superior conj	2185 Dec 09 03:12	17° \mathcal{X} 27'35	-1°01'27
evening rise	2185 Jan 13 05:52	2° \mathfrak{A} 11'25		minimum elong	2185 Dec 08 19:39	16° \mathcal{X} 57'57	1°00'31
asc. node	2185 Jan 31 10:50	0° \mathcal{H} 19'34		max. Earth dist.	2185 Dec 09 05:13	17° \mathcal{X} 35'30	1.45141 AU
	2185 Jan 31 03:56	0° \mathcal{H}			2185 Dec 17 02:33	0° \mathfrak{Z}	
evening max el	2185 Feb 01 10:19	1° \mathcal{H} 22'14	18°23'41	evening rise	2185 Dec 24 23:02	12° \mathfrak{Z} 27'19	
retrograde	2185 Feb 07 22:15	4° \mathcal{H} 54'30		greatest brilliancy	2186 Jan 02 08:57	25° \mathfrak{Z} 51'12	-0.8m
evening set	2185 Feb 10 22:43	4° \mathcal{H} 04'39			2186 Jan 05 00:27	0° \mathfrak{A}	
	2185 Feb 15 15:18	30° \mathcal{R} \mathfrak{A}		evening max el	2186 Jan 15 20:40	14° \mathfrak{A} 48'46	18°57'07
inferior conj	2185 Feb 16 20:43	28° \mathfrak{A} 36'39	3°41'16	asc. node	2186 Jan 18 07:52	16° \mathfrak{A} 59'44	
minimum elong	2185 Feb 16 19:54	28° \mathfrak{A} 39'00	3°41'13	retrograde	2186 Jan 22 16:45	18° \mathfrak{A} 40'38	
min. Earth dist.	2185 Feb 19 03:00	26° \mathfrak{A} 00'47	0.64125 AU	evening set	2186 Jan 25 23:19	17° \mathfrak{A} 38'42	
morning rise	2185 Feb 22 16:25	22° \mathfrak{A} 29'35		inferior conj	2186 Jan 31 14:41	11° \mathfrak{A} 53'51	3°26'46
direct	2185 Mar 01 13:21	19° \mathfrak{A} 40'57		minimum elong	2186 Jan 31 12:41	12° \mathfrak{A} 00'05	3°26'29
desc. node	2185 Mar 10 15:01	23° \mathfrak{A} 29'44		min. Earth dist.	2186 Feb 02 05:35	9° \mathfrak{A} 52'18	0.65638 AU
morning max el	2185 Mar 15 05:05	27° \mathfrak{A} 34'15	27°31'00	morning rise	2186 Feb 06 01:43	5° \mathfrak{A} 42'31	
	2185 Mar 17 12:34	0° \mathcal{H}		direct	2186 Feb 12 14:43	2° \mathfrak{A} 51'26	
	2185 Apr 07 17:13	0° \mathcal{Y}		morning max el	2186 Feb 25 15:01	10° \mathfrak{A} 31'35	26°40'44
morning set	2185 Apr 19 05:58	21° \mathcal{Y} 04'35		desc. node	2186 Feb 25 12:02	10° \mathfrak{A} 24'06	
	2185 Apr 23 15:47	0° \mathcal{B}			2186 Mar 13 01:32	0° \mathcal{H}	
max. Earth dist.	2185 Apr 24 04:48	1° \mathcal{B} 07'38	1.33324 AU		2186 Mar 31 05:27	0° \mathcal{Y}	
				morning set	2186 Apr 02 13:47	4° \mathcal{Y} 23'39	
superior conj	2185 Apr 27 04:52	7° \mathcal{B} 27'37	-0°23'10	max. Earth dist.	2186 Apr 06 19:56	12° \mathcal{Y} 40'29	1.34551 AU
minimum elong	2185 Apr 27 06:02	7° \mathcal{B} 33'47	0°22'55				
asc. node	2185 Apr 29 10:09	12° \mathcal{B} 12'45		superior conj	2186 Apr 11 04:58	21° \mathcal{Y} 34'17	-0°51'15

minimum elong	2186 Apr 11 07:35	21° Υ 47'46	0°50'45		2187 Mar 23 05:21	0° Υ	
	2186 Apr 15 05:46	0° \mathcal{B}					
asc. node	2186 Apr 16 07:12	2° \mathcal{B} 13'33		superior conj	2187 Mar 25 20:29	5° Υ 11'09	-1°18'19
evening rise	2186 Apr 18 18:21	7° \mathcal{B} 22'35		minimum elong	2187 Mar 26 00:20	5° Υ 30'18	1°17'44
	2186 May 01 01:17	0° Π		evening rise	2187 Apr 02 23:30	21° Υ 39'42	
evening max el	2186 May 08 03:03	8° Π 46'19	21°05'14	asc. node	2187 Apr 03 04:15	22° Υ 03'44	
retrograde	2186 May 19 21:40	14° Π 30'57			2187 Apr 07 04:22	0° \mathcal{B}	
evening set	2186 May 22 02:51	14° Π 19'28		evening max el	2187 Apr 20 13:00	20° \mathcal{B} 09'46	19°51'20
desc. node	2186 May 24 11:18	13° Π 43'56		retrograde	2187 Apr 30 13:48	25° \mathcal{B} 00'40	
inferior conj	2186 May 31 11:31	10° Π 21'06	-2°01'12	evening set	2187 May 02 14:11	24° \mathcal{B} 49'47	
minimum elong	2186 May 31 05:54	10° Π 29'02	1°59'15	inferior conj	2187 May 11 10:32	20° \mathcal{B} 48'53	-0°01'38
min. Earth dist.	2186 Jun 01 00:44	10° Π 02'26	0.54900 AU	minimum elong	2187 May 11 10:28	20° \mathcal{B} 49'00	0°01'36
morning rise	2186 Jun 09 08:59	6° Π 19'36		transit middle	2187 May 11 10:28	20° \mathcal{B} 49'00	0°01'36
direct	2186 Jun 12 18:11	5° Π 54'51		transit begin	2187 May 11 06:31	20° \mathcal{B} 55'03	
morning max el	2186 Jun 25 14:47	12° Π 02'56	22°35'27	transit end	2187 May 11 14:25	20° \mathcal{B} 42'57	
	2186 Jul 08 22:07	0° \mathcal{E}		desc. node	2187 May 11 08:18	20° \mathcal{B} 52'20	
asc. node	2186 Jul 13 06:26	8° \mathcal{E} 02'19		min. Earth dist.	2187 May 13 14:30	19° \mathcal{B} 29'26	0.55499 AU
morning set	2186 Jul 17 17:33	17° \mathcal{E} 05'53		morning rise	2187 May 20 04:30	16° \mathcal{B} 19'58	
	2186 Jul 23 19:01	0° \mathcal{Q}		direct	2187 May 24 09:34	15° \mathcal{B} 40'47	
				morning max el	2187 Jun 07 06:08	22° \mathcal{B} 34'21	24°17'35
superior conj	2186 Jul 24 21:00	2° \mathcal{Q} 18'19	1°36'01		2187 Jun 13 19:55	0° Π	
minimum elong	2186 Jul 24 19:04	2° \mathcal{Q} 08'03	1°35'50	asc. node	2187 Jun 30 03:31	27° Π 42'28	
max. Earth dist.	2186 Jul 27 22:12	8° \mathcal{Q} 42'34	1.34139 AU		2187 Jul 01 06:07	0° \mathcal{E}	
evening rise	2186 Aug 01 17:26	18° \mathcal{Q} 24'14		morning set	2187 Jul 02 05:20	2° \mathcal{E} 01'47	
	2186 Aug 07 21:36	0° \mathcal{P}					
desc. node	2186 Aug 20 10:39	20° \mathcal{P} 28'30		superior conj	2187 Jul 09 05:17	17° \mathcal{E} 08'14	1°22'46
	2186 Aug 27 08:33	0° \mathcal{L}		minimum elong	2187 Jul 09 02:55	16° \mathcal{E} 55'22	1°22'26
evening max el	2186 Sep 05 09:14	10° \mathcal{L} 11'49	27°10'09	max. Earth dist.	2187 Jul 11 00:57	21° \mathcal{E} 04'00	1.33092 AU
retrograde	2186 Sep 18 17:42	17° \mathcal{L} 30'14			2187 Jul 15 06:40	0° \mathcal{Q}	
evening set	2186 Sep 25 16:03	14° \mathcal{L} 46'40		evening rise	2187 Jul 16 13:18	2° \mathcal{Q} 36'35	
min. Earth dist.	2186 Sep 29 12:11	11° \mathcal{L} 05'11	0.65018 AU		2187 Jul 31 17:31	0° \mathcal{P}	
inferior conj	2186 Oct 01 15:14	8° \mathcal{L} 42'56	-2°29'23	desc. node	2187 Aug 07 07:40	9° \mathcal{P} 45'32	
minimum elong	2186 Oct 01 19:13	8° \mathcal{L} 31'47	2°27'54	evening max el	2187 Aug 18 20:07	23° \mathcal{P} 20'34	27°26'05
morning rise	2186 Oct 07 23:17	3° \mathcal{L} 09'59			2187 Aug 28 19:09	0° \mathcal{L}	
asc. node	2186 Oct 09 05:37	2° \mathcal{L} 42'25		retrograde	2187 Sep 01 12:15	0° \mathcal{L} 37'54	
direct	2186 Oct 10 15:46	2° \mathcal{L} 31'33			2187 Sep 05 01:29	30° \mathcal{R} \mathcal{P}	
morning max el	2186 Oct 17 03:58	6° \mathcal{L} 00'57	18°05'44	evening set	2187 Sep 08 16:45	28° \mathcal{P} 00'50	
	2186 Nov 02 07:38	0° \mathcal{M}		min. Earth dist.	2187 Sep 12 08:05	24° \mathcal{P} 52'05	0.63441 AU
morning set	2186 Nov 04 05:05	3° \mathcal{M} 08'49		inferior conj	2187 Sep 14 23:36	22° \mathcal{P} 12'28	-3°25'47
desc. node	2186 Nov 16 09:55	23° \mathcal{M} 04'58		minimum elong	2187 Sep 15 04:46	21° \mathcal{P} 59'26	3°24'12
				morning rise	2187 Sep 21 18:02	16° \mathcal{P} 56'15	
superior conj	2186 Nov 18 09:07	26° \mathcal{M} 13'24	-0°13'14	direct	2187 Sep 24 05:54	16° \mathcal{P} 26'15	
minimum elong	2186 Nov 18 07:27	26° \mathcal{M} 06'47	0°13'00	asc. node	2187 Sep 26 02:41	16° \mathcal{P} 43'22	
behind sun begin	2186 Nov 18 00:57	25° \mathcal{M} 40'54		morning max el	2187 Sep 30 20:12	19° \mathcal{P} 51'56	17°52'00
behind sun end	2186 Nov 18 13:57	26° \mathcal{M} 32'39			2187 Oct 08 08:37	0° \mathcal{L}	
	2186 Nov 20 18:14	0° \mathcal{X}		morning set	2187 Oct 17 08:54	15° \mathcal{L} 21'29	
max. Earth dist.	2186 Nov 21 23:59	1° \mathcal{X} 57'27	1.44934 AU		2187 Oct 25 21:12	0° \mathcal{M}	
evening rise	2186 Dec 04 18:47	21° \mathcal{X} 53'33					
	2186 Dec 10 00:50	0° \mathcal{Z}		superior conj	2187 Oct 29 12:16	6° \mathcal{M} 03'34	0°32'10
greatest brilliancy	2186 Dec 18 02:42	12° \mathcal{Z} 17'35	-0.7m	minimum elong	2187 Oct 29 15:29	6° \mathcal{M} 16'53	0°31'42
evening max el	2186 Dec 30 03:01	28° \mathcal{Z} 18'18	19°46'54	desc. node	2187 Nov 03 06:57	13° \mathcal{M} 51'56	
	2186 Dec 31 22:01	0° \approx		max. Earth dist.	2187 Nov 04 17:14	16° \mathcal{M} 09'41	1.44024 AU
asc. node	2187 Jan 05 04:53	2° \approx 28'06			2187 Nov 13 12:30	0° \mathcal{X}	
retrograde	2187 Jan 06 14:05	2° \approx 38'39		evening rise	2187 Nov 14 03:29	0° \mathcal{X} 57'47	
evening set	2187 Jan 10 04:13	1° \approx 23'19			2187 Dec 03 17:03	0° \mathcal{Z}	
	2187 Jan 11 19:34	30° \mathcal{R} \mathcal{Z}		evening max el	2187 Dec 13 04:04	11° \mathcal{Z} 48'51	20°50'33
inferior conj	2187 Jan 15 15:24	25° \mathcal{Z} 24'05	3°00'27	retrograde	2187 Dec 21 11:52	16° \mathcal{Z} 44'21	
minimum elong	2187 Jan 15 12:51	25° \mathcal{Z} 32'33	2°59'51	asc. node	2187 Dec 23 01:56	16° \mathcal{Z} 30'21	
min. Earth dist.	2187 Jan 16 16:01	24° \mathcal{Z} 02'32	0.66751 AU	evening set	2187 Dec 25 11:21	15° \mathcal{Z} 14'02	
morning rise	2187 Jan 20 21:15	19° \mathcal{Z} 10'59		inferior conj	2187 Dec 30 20:20	9° \mathcal{Z} 03'16	2°24'56
direct	2187 Jan 26 22:00	16° \mathcal{Z} 29'37		minimum elong	2187 Dec 30 17:47	9° \mathcal{Z} 12'02	2°24'08
morning max el	2187 Feb 07 24:00	23° \mathcal{Z} 41'46	25°27'45	min. Earth dist.	2187 Dec 31 08:09	8° \mathcal{Z} 22'47	0.67470 AU
desc. node	2187 Feb 12 09:05	28° \mathcal{Z} 30'16		morning rise	2188 Jan 05 00:01	2° \mathcal{Z} 50'13	
	2187 Feb 13 15:06	0° \approx		direct	2188 Jan 10 10:13	0° \mathcal{Z} 26'55	
	2187 Mar 06 10:43	0° \mathcal{H}		morning max el	2188 Jan 21 08:18	6° \mathcal{Z} 57'34	24°02'02
morning set	2187 Mar 16 06:01	16° \mathcal{H} 52'43		desc. node	2188 Jan 30 06:08	17° \mathcal{Z} 27'00	
max. Earth dist.	2187 Mar 19 23:18	23° \mathcal{H} 45'46	1.36229 AU		2188 Feb 08 06:46	0° \approx	

morning set	2188 Feb 26 00:42	28° \approx 14'32		desc. node	2189 Jan 16 03:12	7° \approx 00'22	
	2188 Feb 27 01:03	0° \approx			2189 Jan 31 12:38	0° \approx	
max. Earth dist.	2188 Feb 29 19:11	4° \approx 51'25	1.38261 AU	morning set	2189 Feb 05 15:59	8° \approx 15'31	
				max. Earth dist.	2189 Feb 10 15:26	16° \approx 33'38	1.40421 AU
superior conj	2188 Mar 07 23:47	18° \approx 07'47	-1°42'06	superior conj	2189 Feb 18 10:25	0° \approx 13'22	-1°59'13
minimum elong	2188 Mar 08 04:07	18° \approx 28'24	1°41'38	minimum elong	2189 Feb 18 13:37	0° \approx 27'50	1°59'02
	2188 Mar 14 02:34	0° \approx			2189 Feb 18 07:27	0° \approx	
evening rise	2188 Mar 16 21:49	5° \approx 30'51		evening rise	2189 Feb 28 10:14	18° \approx 48'49	
asc. node	2188 Mar 20 01:17	11° \approx 37'36			2189 Mar 06 11:07	0° \approx	
	2188 Mar 31 08:59	0° \approx		asc. node	2189 Mar 06 22:17	0° \approx 49'33	
evening max el	2188 Apr 02 09:57	2° \approx 11'49	18°56'47	evening max el	2189 Mar 16 15:13	14° \approx 46'29	18°22'22
retrograde	2188 Apr 10 20:46	6° \approx 18'13		retrograde	2189 Mar 23 22:58	18° \approx 24'09	
evening set	2188 Apr 13 01:21	6° \approx 02'47		evening set	2189 Mar 26 09:28	18° \approx 01'06	
inferior conj	2188 Apr 21 02:29	1° \approx 46'32	1°41'14	inferior conj	2189 Apr 02 15:44	13° \approx 24'40	2°51'35
minimum elong	2188 Apr 21 06:00	1° \approx 40'17	1°40'08	minimum elong	2189 Apr 02 19:28	13° \approx 16'53	2°50'45
	2188 Apr 23 14:39	30° \approx 8'17		min. Earth dist.	2189 Apr 06 02:17	10° \approx 34'41	0.58890 AU
min. Earth dist.	2188 Apr 24 06:17	29° \approx 33'13	0.56928 AU	morning rise	2189 Apr 10 02:47	7° \approx 51'58	
desc. node	2188 Apr 27 05:20	27° \approx 43'29		desc. node	2189 Apr 14 02:21	6° \approx 23'29	
morning rise	2188 Apr 29 07:35	26° \approx 43'17		direct	2189 Apr 16 07:12	6° \approx 10'36	
direct	2188 May 04 13:40	25° \approx 37'33		morning max el	2189 Apr 30 16:11	13° \approx 54'33	27°05'26
	2188 May 15 08:56	0° \approx			2189 May 13 12:13	0° \approx	
morning max el	2188 May 18 20:52	3° \approx 02'22	25°52'46		2189 May 30 06:22	0° \approx	
	2188 Jun 07 02:07	0° \approx		morning set	2189 May 31 02:14	1° \approx 43'18	
morning set	2188 Jun 15 16:48	16° \approx 56'16		asc. node	2189 Jun 02 21:36	7° \approx 41'30	
asc. node	2188 Jun 16 00:35	17° \approx 37'23					
	2188 Jun 21 17:31	0° \approx		superior conj	2189 Jun 07 04:00	17° \approx 01'13	0°43'44
superior conj	2188 Jun 22 16:14	2° \approx 04'42	1°05'05	minimum elong	2189 Jun 07 02:13	16° \approx 51'22	0°43'23
minimum elong	2188 Jun 22 13:55	1° \approx 52'02	1°04'42	max. Earth dist.	2189 Jun 06 22:27	16° \approx 30'42	1.32170 AU
max. Earth dist.	2188 Jun 23 10:18	3° \approx 43'49	1.32439 AU		2189 Jun 13 02:53	0° \approx	
evening rise	2188 Jun 29 16:40	17° \approx 10'24		evening rise	2189 Jun 14 00:54	1° \approx 56'45	
	2188 Jul 06 04:09	0° \approx			2189 Jun 29 04:53	0° \approx	
desc. node	2188 Jul 24 04:40	28° \approx 15'28		desc. node	2189 Jul 11 01:40	15° \approx 38'18	
	2188 Jul 25 14:56	0° \approx		evening max el	2189 Jul 13 03:30	17° \approx 43'23	26°21'10
evening max el	2188 Jul 31 03:08	5° \approx 54'55	27°10'11	retrograde	2189 Jul 27 03:04	24° \approx 54'57	
retrograde	2188 Aug 13 23:43	13° \approx 09'02		evening set	2189 Aug 02 16:18	23° \approx 08'31	
evening set	2188 Aug 21 02:26	10° \approx 50'59		min. Earth dist.	2189 Aug 06 16:30	20° \approx 32'46	0.59510 AU
min. Earth dist.	2188 Aug 24 17:22	8° \approx 06'22	0.61565 AU	inferior conj	2189 Aug 09 23:57	17° \approx 59'05	-4°50'00
inferior conj	2188 Aug 27 19:43	5° \approx 21'14	-4°15'12	minimum elong	2189 Aug 10 03:15	17° \approx 52'40	4°49'40
minimum elong	2188 Aug 28 00:59	5° \approx 09'30	4°14'05	morning rise	2189 Aug 17 16:19	13° \approx 25'56	
morning rise	2188 Sep 04 01:08	0° \approx 25'16		direct	2189 Aug 20 03:05	13° \approx 04'49	
direct	2188 Sep 06 11:09	0° \approx 00'48		morning max el	2189 Aug 27 20:43	16° \approx 48'52	18°21'06
asc. node	2188 Sep 11 23:45	2° \approx 13'16		asc. node	2189 Aug 29 20:48	18° \approx 57'26	
morning max el	2188 Sep 13 10:51	3° \approx 30'52	17°56'44		2189 Sep 06 05:36	0° \approx	
morning set	2188 Sep 29 07:54	28° \approx 29'22		morning set	2189 Sep 12 20:31	12° \approx 15'56	
	2188 Sep 30 03:44	0° \approx					
superior conj	2188 Oct 09 18:38	17° \approx 14'21	1°07'14	superior conj	2189 Sep 22 00:59	29° \approx 35'37	1°30'19
minimum elong	2188 Oct 09 23:09	17° \approx 34'03	1°06'41	minimum elong	2189 Sep 22 04:27	29° \approx 51'30	1°30'01
	2188 Oct 17 07:32	0° \approx			2189 Sep 22 06:18	0° \approx	
max. Earth dist.	2188 Oct 17 06:26	29° \approx 55'26	1.42518 AU	max. Earth dist.	2189 Sep 29 13:45	12° \approx 58'14	1.40610 AU
desc. node	2188 Oct 20 04:00	4° \approx 39'13		evening rise	2189 Oct 04 03:22	20° \approx 39'12	
evening rise	2188 Oct 23 17:50	10° \approx 21'54		desc. node	2189 Oct 07 01:01	25° \approx 22'41	
	2188 Nov 05 15:45	0° \approx			2189 Oct 09 22:50	0° \approx	
evening max el	2188 Nov 24 23:33	25° \approx 20'48	22°04'29	evening max el	2189 Oct 30 20:54	0° \approx	
	2188 Nov 30 21:00	0° \approx		retrograde	2189 Nov 07 14:24	8° \approx 54'28	23°24'00
retrograde	2188 Dec 04 08:23	0° \approx 55'13		evening set	2189 Nov 18 02:09	15° \approx 47'01	
	2188 Dec 07 13:35	30° \approx 8'37		asc. node	2189 Nov 23 01:37	13° \approx 03'27	
evening set	2188 Dec 08 19:03	29° \approx 08'34		inferior conj	2189 Nov 25 19:59	10° \approx 08'43	
asc. node	2188 Dec 08 22:57	29° \approx 00'30		minimum elong	2189 Nov 28 10:52	6° \approx 39'59	0°53'21
inferior conj	2188 Dec 14 03:27	22° \approx 49'30	1°42'07	minimum elong	2189 Nov 28 09:39	6° \approx 44'10	0°52'50
minimum elong	2188 Dec 14 01:21	22° \approx 56'46	1°41'19	min. Earth dist.	2189 Nov 28 00:27	7° \approx 15'42	0.67806 AU
min. Earth dist.	2188 Dec 14 03:44	22° \approx 48'31	0.67815 AU	morning rise	2189 Dec 03 17:39	0° \approx 32'20	
morning rise	2188 Dec 19 07:32	16° \approx 38'13			2189 Dec 04 11:40	30° \approx 8'16	
direct	2188 Dec 24 02:39	14° \approx 37'11		direct	2189 Dec 07 22:21	28° \approx 16'54'09	
morning max el	2189 Jan 02 18:45	20° \approx 19'59	22°33'38		2189 Dec 11 15:39	0° \approx	
	2189 Jan 10 23:21	0° \approx		morning max el	2189 Dec 16 10:43	3° \approx 51'21	21°10'51
				desc. node	2190 Jan 03 00:15	26° \approx 59'47	

	2190 Jan 05 00:55	0°♄		morning rise	2190 Nov 18 04:24	14°♍30'50	
morning set	2190 Jan 16 03:05	16°♄58'26		direct	2190 Nov 21 20:18	13°♍13'40	
max. Earth dist.	2190 Jan 23 17:33	29°♄09'35	1.42412 AU	morning max el	2190 Nov 29 10:16	17°♍33'16	19°59'22
	2190 Jan 24 05:51	0°♁			2190 Dec 09 06:14	0°♊	
				desc. node	2190 Dec 20 21:17	17°♊17'47	
superior conj	2190 Jan 30 23:11	11°♁15'59	-2°05'13	morning set	2190 Dec 25 23:09	25°♊05'32	
minimum elong	2190 Jan 30 22:45	11°♁14'09	2°05'13		2190 Dec 29 03:06	0°♋	
	2190 Feb 10 14:05	0°♌		max. Earth dist.	2191 Jan 06 03:09	12°♋36'14	1.43978 AU
evening rise	2190 Feb 11 09:00	1°♌25'19					
asc. node	2190 Feb 21 19:18	19°♌32'45		superior conj	2191 Jan 11 09:56	21°♋07'16	-1°55'03
evening max el	2190 Feb 28 01:42	27°♌45'47	18°07'51	minimum elong	2191 Jan 11 04:00	20°♋43'05	1°54'43
	2190 Mar 02 20:52	0°♍			2191 Jan 16 19:07	0°♌	
retrograde	2190 Mar 06 17:53	1°♍10'32		evening rise	2191 Jan 24 13:42	13°♌11'02	
evening set	2190 Mar 09 09:57	0°♍37'58			2191 Feb 03 12:21	0°♍	
	2190 Mar 10 17:12	30°♎		asc. node	2191 Feb 08 16:19	7°♎37'40	
inferior conj	2190 Mar 16 00:46	25°♎40'55	3°29'53	evening max el	2191 Feb 11 14:16	11°♎00'56	18°12'37
minimum elong	2190 Mar 16 02:51	25°♎35'53	3°29'37	retrograde	2191 Feb 18 01:08	14°♎26'40	
min. Earth dist.	2190 Mar 19 05:15	22°♎38'35	0.61040 AU	evening set	2191 Feb 20 22:29	13°♎43'24	
morning rise	2190 Mar 22 17:56	19°♎48'51		inferior conj	2191 Feb 27 01:38	8°♎26'29	3°42'43
direct	2190 Mar 29 12:24	17°♎32'23		minimum elong	2191 Feb 27 01:46	8°♎26'07	3°42'43
desc. node	2190 Mar 31 23:23	17°♎49'16		min. Earth dist.	2191 Mar 01 16:55	5°♎35'37	0.63083 AU
morning max el	2190 Apr 12 17:53	25°♎26'40	27°44'29	morning rise	2191 Mar 05 04:04	2°♎23'30	
	2190 Apr 16 22:53	0°♏			2191 Mar 09 18:39	30°♏	
	2190 May 06 22:03	0°♐		direct	2191 Mar 12 02:48	29°♏42'14	
morning set	2190 May 15 07:51	16°♐16'53			2191 Mar 14 12:53	0°♑	
asc. node	2190 May 20 18:37	27°♐50'26		desc. node	2191 Mar 18 20:26	1°♑49'39	
max. Earth dist.	2190 May 21 09:37	29°♐11'58	1.32289 AU	morning max el	2191 Mar 26 00:36	7°♑38'28	27°46'05
	2190 May 21 18:25	0°♒			2191 Apr 12 04:37	0°♑	
				morning set	2191 Apr 29 07:20	0°♒28'35	
superior conj	2190 May 22 14:57	1°♒52'14	0°19'24		2191 Apr 29 01:38	0°♒	
minimum elong	2190 May 22 14:04	1°♒47'25	0°19'14	max. Earth dist.	2191 May 04 15:45	11°♒33'26	1.32821 AU
evening rise	2190 May 29 11:54	16°♒48'45					
	2190 Jun 05 00:34	0°♓		superior conj	2191 May 06 23:17	16°♓30'54	-0°07'12
evening max el	2190 Jun 24 20:49	28°♓46'17	25°03'57	minimum elong	2191 May 06 23:38	16°♓32'47	0°07'07
	2190 Jun 26 04:51	0°♑		behind sun begin	2191 May 06 18:54	16°♓07'17	
desc. node	2190 Jun 27 22:39	1°♑26'48		behind sun end	2191 May 07 04:21	16°♓58'18	
retrograde	2190 Jul 08 20:33	5°♑52'32		asc. node	2191 May 07 15:38	17°♓59'16	
evening set	2190 Jul 14 06:40	4°♑45'03			2191 May 13 05:06	0°♒	
min. Earth dist.	2190 Jul 19 08:26	1°♑59'23	0.57512 AU	evening rise	2191 May 13 23:43	1°♒38'57	
inferior conj	2190 Jul 22 09:07	29°♓57'14	-4°58'23		2191 May 29 15:51	0°♓	
minimum elong	2190 Jul 22 07:52	29°♓59'20	4°58'20	evening max el	2191 Jun 06 10:33	9°♓19'05	23°30'12
	2190 Jul 22 07:29	30°♒♓		desc. node	2191 Jun 14 19:40	15°♓05'35	
morning rise	2190 Jul 30 11:41	25°♓46'12		retrograde	2191 Jun 20 01:30	16°♓08'01	
direct	2190 Aug 02 01:25	25°♓26'52		evening set	2191 Jun 23 23:52	15°♓34'06	
morning max el	2190 Aug 10 22:41	29°♓36'48	19°06'19	min. Earth dist.	2191 Jun 30 20:45	12°♓23'33	0.55899 AU
	2190 Aug 11 08:21	0°♑		inferior conj	2191 Jul 02 22:09	11°♓10'00	-4°25'53
asc. node	2190 Aug 16 17:52	6°♑41'01		minimum elong	2191 Jul 02 15:40	11°♓19'42	4°24'44
morning set	2190 Aug 27 18:45	26°♑30'42		morning rise	2191 Jul 11 10:03	7°♓14'40	
	2190 Aug 29 12:56	0°♒		direct	2191 Jul 14 04:36	6°♓55'38	
				morning max el	2191 Jul 24 13:58	11°♓44'31	20°12'59
superior conj	2190 Sep 05 01:49	12°♒51'53	1°42'29	asc. node	2191 Aug 03 14:55	25°♓09'54	
minimum elong	2190 Sep 05 03:25	12°♒59'39	1°42'25		2191 Aug 06 07:57	0°♑	
max. Earth dist.	2190 Sep 11 17:22	25°♒18'00	1.38556 AU	morning set	2191 Aug 11 23:32	11°♑05'05	
	2190 Sep 14 08:38	0°♓					
evening rise	2190 Sep 15 13:01	2°♓03'56		superior conj	2191 Aug 19 16:00	26°♑48'09	1°45'34
desc. node	2190 Sep 23 22:01	15°♓58'37		minimum elong	2191 Aug 19 15:51	26°♑47'25	1°45'34
	2190 Oct 03 04:04	0°♒			2191 Aug 21 06:19	0°♒	
evening max el	2190 Oct 21 02:51	22°♒32'04	24°42'49	max. Earth dist.	2191 Aug 24 22:56	7°♒12'35	1.36600 AU
retrograde	2190 Nov 01 16:04	29°♒15'55		evening rise	2191 Aug 28 20:39	14°♒31'00	
evening set	2190 Nov 07 05:26	26°♒56'08			2191 Sep 06 19:18	0°♓	
min. Earth dist.	2190 Nov 11 19:56	21°♒42'05	0.67464 AU	desc. node	2191 Sep 10 19:02	6°♓22'17	
inferior conj	2190 Nov 12 16:52	20°♒32'30	-0°00'09		2191 Sep 27 21:17	0°♒	
minimum elong	2190 Nov 12 16:52	20°♒32'30	0°00'09	evening max el	2191 Oct 03 14:57	6°♒12'44	25°53'34
transit middle	2190 Nov 12 16:52	20°♒32'30	0°00'09	retrograde	2191 Oct 16 01:12	13°♒17'24	
transit begin	2190 Nov 12 14:07	20°♒41'39		evening set	2191 Oct 22 04:46	10°♒43'55	
transit end	2190 Nov 12 19:37	20°♒23'21		min. Earth dist.	2191 Oct 26 11:44	6°♒05'19	0.66790 AU
asc. node	2190 Nov 12 17:03	20°♒31'55		inferior conj	2191 Oct 27 19:40	4°♒24'42	-0°57'01

minimum elong	2191 Oct 27 21:09	4° \mathbb{M} 20'00	0°56'22	asc. node	2192 Oct 16 11:11	12° \mathbb{A} 43'03	
asc. node	2191 Oct 30 14:07	1° \mathbb{M} 06'26		morning rise	2192 Oct 16 19:48	12° \mathbb{A} 31'08	
	2191 Oct 31 16:29	30° \mathbb{R} \mathbb{A}		direct	2192 Oct 19 16:17	11° \mathbb{A} 46'04	
morning rise	2191 Nov 02 13:52	28° \mathbb{A} 31'44		morning max el	2192 Oct 26 06:05	15° \mathbb{A} 20'53	18°21'38
direct	2191 Nov 05 18:56	27° \mathbb{A} 32'27			2192 Nov 05 22:02	0° \mathbb{M}	
	2191 Nov 11 04:48	0° \mathbb{M}		morning set	2192 Nov 14 14:59	14° \mathbb{M} 01'03	
morning max el	2191 Nov 12 17:19	1° \mathbb{M} 24'37	19°02'26	desc. node	2192 Nov 23 15:20	28° \mathbb{M} 29'30	
	2191 Dec 02 18:14	0° \mathbb{X}			2192 Nov 24 14:07	0° \mathbb{X}	
morning set	2191 Dec 05 05:32	3° \mathbb{X} 51'35					
desc. node	2191 Dec 07 18:19	7° \mathbb{X} 49'12		superior conj	2192 Nov 29 22:16	8° \mathbb{X} 26'15	-0°41'22
max. Earth dist.	2191 Dec 19 19:04	26° \mathbb{X} 40'35	1.44927 AU	minimum elong	2192 Nov 29 16:56	8° \mathbb{X} 05'18	0°40'39
				max. Earth dist.	2192 Dec 01 14:19	11° \mathbb{X} 03'45	1.45149 AU
superior conj	2191 Dec 21 20:53	29° \mathbb{X} 56'57	-1°25'48		2192 Dec 13 16:18	0° \mathbb{Z}	
minimum elong	2191 Dec 21 11:59	29° \mathbb{X} 21'50	1°24'52	evening rise	2192 Dec 16 03:54	3° \mathbb{Z} 53'44	
	2191 Dec 21 21:39	0° \mathbb{Z}		greatest brilliancy	2192 Dec 26 20:49	20° \mathbb{Z} 37'35	-0.8m
evening rise	2192 Jan 05 20:26	24° \mathbb{Z} 00'17			2193 Jan 02 03:50	0° \approx	
	2192 Jan 09 12:23	0° \approx		evening max el	2193 Jan 08 11:06	7° \approx 53'44	19°16'22
evening max el	2192 Jan 26 02:12	24° \approx 25'23	18°35'51	asc. node	2193 Jan 12 10:27	11° \approx 04'52	
asc. node	2192 Jan 26 13:23	24° \approx 53'05		retrograde	2193 Jan 15 12:36	11° \approx 56'29	
retrograde	2192 Feb 01 16:32	28° \approx 04'22		evening set	2193 Jan 18 22:17	10° \approx 48'49	
evening set	2192 Feb 04 19:34	27° \approx 09'24		inferior conj	2193 Jan 24 11:35	4° \approx 57'20	3°16'50
inferior conj	2192 Feb 10 14:24	21° \approx 34'07	3°36'44	minimum elong	2193 Jan 24 09:17	5° \approx 04'44	3°16'25
minimum elong	2192 Feb 10 13:01	21° \approx 38'16	3°36'36	min. Earth dist.	2193 Jan 25 20:08	3° \approx 12'46	0.66167 AU
min. Earth dist.	2192 Feb 12 14:06	19° \approx 11'52	0.64823 AU		2193 Jan 28 13:25	30° \mathbb{R} \mathbb{Z}	
morning rise	2192 Feb 16 06:00	15° \approx 25'10		morning rise	2193 Jan 29 20:03	28° \mathbb{Z} 45'10	
direct	2192 Feb 23 00:24	12° \approx 33'45		direct	2193 Feb 05 04:12	25° \mathbb{Z} 57'16	
desc. node	2192 Mar 04 17:29	17° \approx 50'35			2193 Feb 14 01:23	0° \approx	
morning max el	2192 Mar 07 09:59	20° \approx 22'20	27°12'55	morning max el	2193 Feb 17 19:42	3° \approx 26'32	26°11'53
	2192 Mar 15 17:03	0° \mathbb{H}		desc. node	2193 Feb 19 14:31	5° \approx 18'30	
	2192 Apr 04 06:16	0° \mathbb{Y}			2193 Mar 10 00:25	0° \mathbb{H}	
morning set	2192 Apr 11 21:54	14° \mathbb{Y} 09'51		morning set	2193 Mar 25 23:42	27° \mathbb{H} 09'15	
max. Earth dist.	2192 Apr 16 13:17	23° \mathbb{Y} 25'37	1.33794 AU		2193 Mar 27 12:01	0° \mathbb{Y}	
	2192 Apr 19 17:17	0° \mathbb{B}		max. Earth dist.	2193 Mar 29 23:36	4° \mathbb{Y} 46'17	1.35218 AU
superior conj	2192 Apr 20 03:03	0° \mathbb{B} 51'22	-0°35'04	superior conj	2193 Apr 03 23:52	14° \mathbb{Y} 46'20	-1°02'58
minimum elong	2192 Apr 20 04:50	1° \mathbb{B} 00'43	0°34'43	minimum elong	2193 Apr 04 03:03	15° \mathbb{Y} 02'34	1°02'25
asc. node	2192 Apr 23 12:41	8° \mathbb{B} 04'22		asc. node	2193 Apr 10 09:45	28° \mathbb{Y} 01'27	
evening rise	2192 Apr 27 10:34	16° \mathbb{B} 21'38			2193 Apr 11 08:42	0° \mathbb{B}	
	2192 May 04 07:04	0° \mathbb{II}		evening rise	2193 Apr 11 18:27	0° \mathbb{B} 50'13	
evening max el	2192 May 18 03:42	19° \mathbb{II} 51'49	21°55'11		2193 Apr 29 09:53	0° \mathbb{II}	
retrograde	2192 May 30 18:25	26° \mathbb{II} 04'26		evening max el	2193 Apr 30 06:39	0° \mathbb{II} 52'19	20°31'30
desc. node	2192 May 31 16:42	26° \mathbb{II} 02'28		retrograde	2193 May 11 07:38	6° \mathbb{II} 14'13	
evening set	2192 Jun 02 10:20	25° \mathbb{II} 48'36		evening set	2193 May 13 09:13	6° \mathbb{II} 03'43	
inferior conj	2192 Jun 11 19:45	21° \mathbb{II} 44'34	-3°05'02	desc. node	2193 May 18 13:43	4° \mathbb{II} 17'20	
minimum elong	2192 Jun 11 12:04	21° \mathbb{II} 55'20	3°02'44	inferior conj	2193 May 22 14:00	2° \mathbb{II} 05'52	-1°10'16
min. Earth dist.	2192 Jun 11 08:13	22° \mathbb{II} 00'42	0.55005 AU	minimum elong	2193 May 22 10:41	2° \mathbb{II} 10'41	1°09'02
morning rise	2192 Jun 20 15:11	17° \mathbb{II} 51'17		min. Earth dist.	2193 May 23 20:45	1° \mathbb{II} 21'24	0.55038 AU
direct	2192 Jun 23 17:32	17° \mathbb{II} 30'03			2193 May 26 07:35	30° \mathbb{R} \mathbb{B}	
morning max el	2192 Jul 05 17:43	23° \mathbb{II} 07'46	21°39'17	morning rise	2193 May 31 11:14	27° \mathbb{B} 54'51	
	2192 Jul 11 18:04	0° \mathbb{E}		direct	2193 Jun 04 03:47	27° \mathbb{B} 25'31	
asc. node	2192 Jul 20 11:57	14° \mathbb{E} 13'14			2193 Jun 12 11:59	0° \mathbb{II}	
morning set	2192 Jul 26 08:31	25° \mathbb{E} 52'33		morning max el	2193 Jun 17 12:19	3° \mathbb{II} 53'43	23°18'55
	2192 Jul 28 07:49	0° \mathbb{O}			2193 Jul 05 11:36	0° \mathbb{E}	
superior conj	2192 Aug 02 15:31	11° \mathbb{O} 12'33	1°41'16	asc. node	2193 Jul 07 09:01	3° \mathbb{E} 42'28	
minimum elong	2192 Aug 02 14:05	11° \mathbb{O} 05'03	1°41'11	morning set	2193 Jul 10 19:48	10° \mathbb{E} 47'39	
max. Earth dist.	2192 Aug 06 11:43	19° \mathbb{O} 06'34	1.34929 AU	superior conj	2193 Jul 17 21:21	25° \mathbb{E} 56'08	1°30'59
evening rise	2192 Aug 10 21:43	27° \mathbb{O} 48'21		minimum elong	2193 Jul 17 19:10	25° \mathbb{E} 44'26	1°30'45
	2192 Aug 12 01:25	0° \mathbb{P}			2193 Jul 19 19:05	0° \mathbb{O}	
desc. node	2192 Aug 27 16:04	26° \mathbb{P} 27'18		max. Earth dist.	2193 Jul 20 09:41	1° \mathbb{O} 17'08	1.33640 AU
	2192 Aug 30 01:31	0° \mathbb{A}		evening rise	2193 Jul 25 11:51	11° \mathbb{O} 44'14	
evening max el	2192 Sep 15 03:21	19° \mathbb{A} 49'32	26°48'34		2193 Aug 04 08:10	0° \mathbb{P}	
retrograde	2192 Sep 28 04:59	27° \mathbb{A} 04'46		desc. node	2193 Aug 14 13:05	16° \mathbb{P} 05'31	
evening set	2192 Oct 04 21:29	24° \mathbb{A} 22'35			2193 Aug 25 11:55	0° \mathbb{A}	
min. Earth dist.	2192 Oct 08 21:23	20° \mathbb{A} 20'37	0.65769 AU	evening max el	2193 Aug 28 15:09	3° \mathbb{A} 11'55	27°20'31
inferior conj	2192 Oct 10 17:13	18° \mathbb{A} 12'13	-1°55'39	retrograde	2193 Sep 11 03:03	10° \mathbb{A} 30'18	
minimum elong	2192 Oct 10 20:19	18° \mathbb{A} 03'07	1°54'24	evening set	2193 Sep 18 05:00	7° \mathbb{A} 47'46	

min. Earth dist.	2193 Sep 21 22:41	4° <u>♄</u> 21'14	0.64391 AU	retrograde	2194 Aug 24 18:55	23° <u>♄</u> 23'38	
inferior conj	2193 Sep 24 07:11	1° <u>♄</u> 50'21	-2°53'47	evening set	2194 Aug 31 23:50	20° <u>♄</u> 52'41	
minimum elong	2193 Sep 24 11:45	1° <u>♄</u> 38'06	2°52'12	min. Earth dist.	2194 Sep 04 14:02	17° <u>♄</u> 55'48	0.62672 AU
	2193 Sep 26 01:30	30° <u>♄</u>		inferior conj	2194 Sep 07 10:41	15° <u>♄</u> 11'43	-3°47'58
morning rise	2193 Sep 30 19:33	26° <u>♄</u> 24'21		minimum elong	2194 Sep 07 16:05	14° <u>♄</u> 58'47	3°46'31
direct	2193 Oct 03 09:48	25° <u>♄</u> 49'54		morning rise	2194 Sep 14 09:48	10° <u>♄</u> 04'02	
asc. node	2193 Oct 03 08:13	25° <u>♄</u> 49'55		direct	2194 Sep 16 20:27	9° <u>♄</u> 36'50	
morning max el	2193 Oct 09 21:58	29° <u>♄</u> 16'25	17°57'47	asc. node	2194 Sep 20 05:15	10° <u>♄</u> 29'51	
	2193 Oct 10 14:45	0° <u>♄</u>		morning max el	2194 Sep 23 13:56	13° <u>♄</u> 03'27	17°51'43
morning set	2193 Oct 27 04:52	25° <u>♄</u> 33'47			2194 Oct 05 02:22	0° <u>♄</u>	
	2193 Oct 29 19:51	0° <u>♄</u>		morning set	2194 Oct 09 17:31	8° <u>♄</u> 11'38	
superior conj	2193 Nov 09 11:42	17° <u>♄</u> 35'51	0°06'59	superior conj	2194 Oct 21 02:24	28° <u>♄</u> 00'32	0°48'29
minimum elong	2193 Nov 09 12:31	17° <u>♄</u> 39'08	0°06'51	minimum elong	2194 Oct 21 06:35	28° <u>♄</u> 18'10	0°47'55
behind sun begin	2193 Nov 09 03:07	17° <u>♄</u> 01'09			2194 Oct 22 06:49	0° <u>♄</u>	
behind sun end	2193 Nov 09 21:55	18° <u>♄</u> 17'03		max. Earth dist.	2194 Oct 28 00:16	9° <u>♄</u> 25'49	1.43441 AU
desc. node	2193 Nov 10 12:24	19° <u>♄</u> 15'20		desc. node	2194 Oct 28 09:27	10° <u>♄</u> 02'56	
max. Earth dist.	2193 Nov 14 09:06	25° <u>♄</u> 25'10	1.44631 AU	evening rise	2194 Nov 05 02:08	22° <u>♄</u> 13'38	
	2193 Nov 17 06:47	0° <u>♄</u>			2194 Nov 10 03:38	0° <u>♄</u>	
evening rise	2193 Nov 25 17:16	13° <u>♄</u> 06'43			2194 Dec 01 06:16	0° <u>♄</u>	
	2193 Dec 06 19:35	0° <u>♄</u>		evening max el	2194 Dec 05 13:46	4° <u>♄</u> 54'33	21°20'58
greatest brilliancy	2193 Dec 10 00:40	4° <u>♄</u> 46'15	-0.6m	retrograde	2194 Dec 14 08:04	10° <u>♄</u> 06'58	
evening max el	2193 Dec 22 15:13	21° <u>♄</u> 23'33	20°12'19	asc. node	2194 Dec 17 04:30	9° <u>♄</u> 21'59	
retrograde	2193 Dec 30 10:31	25° <u>♄</u> 58'29		evening set	2194 Dec 18 11:58	8° <u>♄</u> 30'01	
asc. node	2193 Dec 30 07:29	25° <u>♄</u> 58'24		inferior conj	2194 Dec 23 20:31	2° <u>♄</u> 15'11	2°07'38
evening set	2194 Jan 03 04:23	24° <u>♄</u> 36'53		minimum elong	2194 Dec 23 18:06	2° <u>♄</u> 23'32	2°06'47
inferior conj	2194 Jan 08 14:23	18° <u>♄</u> 32'04	2°46'23	min. Earth dist.	2194 Dec 24 03:20	1° <u>♄</u> 51'36	0.67656 AU
minimum elong	2194 Jan 08 11:46	18° <u>♄</u> 40'53	2°45'40		2194 Dec 25 12:08	30° <u>♄</u>	
min. Earth dist.	2194 Jan 09 09:18	17° <u>♄</u> 28'15	0.67106 AU	morning rise	2194 Dec 29 00:02	26° <u>♄</u> 02'24	
morning rise	2194 Jan 13 18:58	12° <u>♄</u> 18'37		direct	2195 Jan 03 03:45	23° <u>♄</u> 48'11	
direct	2194 Jan 19 13:33	9° <u>♄</u> 44'26		morning max el	2195 Jan 13 13:18	29° <u>♄</u> 59'31	23°24'12
morning max el	2194 Jan 31 04:28	16° <u>♄</u> 40'36	24°52'12		2195 Jan 13 13:29	0° <u>♄</u>	
desc. node	2194 Feb 06 11:35	23° <u>♄</u> 48'27		desc. node	2195 Jan 24 08:39	13° <u>♄</u> 02'47	
	2194 Feb 11 06:19	0° <u>♄</u>			2195 Feb 05 03:03	0° <u>♄</u>	
	2194 Mar 02 23:48	0° <u>♄</u>		morning set	2195 Feb 17 15:20	20° <u>♄</u> 01'57	
morning set	2194 Mar 08 07:34	9° <u>♄</u> 11'59		max. Earth dist.	2195 Feb 21 17:51	27° <u>♄</u> 04'29	1.39175 AU
max. Earth dist.	2194 Mar 11 23:10	15° <u>♄</u> 48'10	1.37060 AU		2195 Feb 23 09:45	0° <u>♄</u>	
superior conj	2194 Mar 18 10:38	28° <u>♄</u> 07'05	-1°29'00	superior conj	2195 Mar 01 07:31	10° <u>♄</u> 44'12	-1°50'25
minimum elong	2194 Mar 18 14:50	28° <u>♄</u> 27'34	1°28'25	minimum elong	2195 Mar 01 11:37	11° <u>♄</u> 03'20	1°50'04
	2194 Mar 19 09:39	0° <u>♄</u>		evening rise	2195 Mar 10 15:38	28° <u>♄</u> 35'56	
evening rise	2194 Mar 26 21:03	14° <u>♄</u> 57'19			2195 Mar 11 09:02	0° <u>♄</u>	
asc. node	2194 Mar 28 06:48	17° <u>♄</u> 45'25		asc. node	2195 Mar 15 03:49	7° <u>♄</u> 11'16	
	2194 Apr 03 19:10	0° <u>♄</u>		evening max el	2195 Mar 26 22:24	24° <u>♄</u> 50'10	18°39'43
evening max el	2194 Apr 12 21:25	12° <u>♄</u> 32'15	19°25'39	retrograde	2195 Apr 03 20:18	28° <u>♄</u> 42'07	
retrograde	2194 Apr 22 05:23	17° <u>♄</u> 03'01		evening set	2195 Apr 06 03:19	28° <u>♄</u> 23'50	
evening set	2194 Apr 24 06:42	16° <u>♄</u> 50'50		inferior conj	2195 Apr 13 20:12	23° <u>♄</u> 59'40	2°15'15
inferior conj	2194 May 02 19:12	12° <u>♄</u> 44'22	0°45'29	minimum elong	2195 Apr 14 00:09	23° <u>♄</u> 52'09	2°14'08
minimum elong	2194 May 02 21:05	12° <u>♄</u> 41'18	0°44'50	min. Earth dist.	2195 Apr 17 05:00	21° <u>♄</u> 27'45	0.57717 AU
desc. node	2194 May 05 10:44	11° <u>♄</u> 01'28		morning rise	2195 Apr 21 17:52	18° <u>♄</u> 42'39	
min. Earth dist.	2194 May 05 11:22	11° <u>♄</u> 00'28	0.56010 AU	desc. node	2195 Apr 22 07:46	18° <u>♄</u> 27'17	
morning rise	2194 May 11 08:37	8° <u>♄</u> 00'33		direct	2195 Apr 27 10:19	17° <u>♄</u> 22'02	
direct	2194 May 15 23:50	7° <u>♄</u> 11'43		morning max el	2195 May 11 19:06	24° <u>♄</u> 57'01	26°27'07
morning max el	2194 May 30 02:51	14° <u>♄</u> 20'59	25°00'01		2195 May 16 10:54	0° <u>♄</u>	
	2194 Jun 11 11:10	0° <u>♄</u>			2195 Jun 04 12:47	0° <u>♄</u>	
asc. node	2194 Jun 24 06:03	23° <u>♄</u> 29'39		morning set	2195 Jun 09 18:25	10° <u>♄</u> 35'46	
morning set	2194 Jun 25 07:38	25° <u>♄</u> 43'47		asc. node	2195 Jun 11 03:06	13° <u>♄</u> 29'10	
	2194 Jun 27 07:38	0° <u>♄</u>		superior conj	2195 Jun 16 18:30	25° <u>♄</u> 47'24	0°56'27
superior conj	2194 Jul 02 06:59	10° <u>♄</u> 49'55	1°15'46	minimum elong	2195 Jun 16 16:22	25° <u>♄</u> 35'38	0°56'04
minimum elong	2194 Jul 02 04:35	10° <u>♄</u> 36'49	1°15'24	max. Earth dist.	2195 Jun 17 02:14	26° <u>♄</u> 29'58	1.32275 AU
max. Earth dist.	2194 Jul 03 15:27	13° <u>♄</u> 46'37	1.32757 AU		2195 Jun 18 16:30	0° <u>♄</u>	
evening rise	2194 Jul 09 11:13	26° <u>♄</u> 06'44		evening rise	2195 Jun 23 16:56	10° <u>♄</u> 46'58	
	2194 Jul 11 09:19	0° <u>♄</u>			2195 Jul 03 15:13	0° <u>♄</u>	
	2194 Jul 28 18:29	0° <u>♄</u>		desc. node	2195 Jul 19 07:04	23° <u>♄</u> 08'54	
desc. node	2194 Aug 01 10:05	5° <u>♄</u> 04'43		evening max el	2195 Jul 24 04:53	28° <u>♄</u> 22'26	26°53'18
evening max el	2194 Aug 11 00:25	16° <u>♄</u> 06'40	27°23'21		2195 Jul 26 00:10	0° <u>♄</u>	

retrograde	2195 Aug 07 03:21	5° \cap 35'45		desc. node	2196 Jul 05 04:04	9° Ω 55'32	
evening set	2195 Aug 14 01:39	3° \cap 29'59		retrograde	2196 Jul 19 02:30	17° Ω 00'45	
min. Earth dist.	2195 Aug 17 19:02	0° \cap 51'01	0.60698 AU	evening set	2196 Jul 25 05:46	15° Ω 30'56	
	2195 Aug 18 19:49	30° κ Ω		min. Earth dist.	2196 Jul 29 14:48	12° Ω 53'03	0.58637 AU
inferior conj	2195 Aug 21 00:28	28° Ω 08'23	-4°32'24	inferior conj	2196 Aug 01 20:58	10° Ω 30'46	-4°57'41
minimum elong	2195 Aug 21 05:12	27° Ω 58'24	4°31'36	minimum elong	2196 Aug 01 22:37	10° Ω 27'43	4°57'36
morning rise	2195 Aug 28 10:35	23° Ω 21'46		morning rise	2196 Aug 09 17:43	6° Ω 06'59	
direct	2195 Aug 30 20:28	22° Ω 59'03		direct	2196 Aug 12 05:37	5° Ω 46'40	
morning max el	2195 Sep 07 02:54	26° Ω 34'14	18°04'34	morning max el	2196 Aug 20 09:42	9° Ω 40'17	18°37'42
asc. node	2195 Sep 07 02:18	26° Ω 32'49		asc. node	2196 Aug 23 23:22	13° Ω 44'00	
	2195 Sep 10 03:06	0° \cap			2196 Sep 02 17:50	0° \cap	
morning set	2195 Sep 22 22:52	21° \cap 37'11		morning set	2196 Sep 05 16:04	5° \cap 37'27	
	2195 Sep 27 11:07	0° Ω					
superior conj	2195 Oct 02 19:30	9° Ω 42'21	1°18'28	superior conj	2196 Sep 14 10:25	22° \cap 29'01	1°36'43
minimum elong	2195 Oct 02 23:46	10° Ω 01'19	1°18'00	minimum elong	2196 Sep 14 13:07	22° \cap 41'42	1°36'31
max. Earth dist.	2195 Oct 10 10:32	22° Ω 52'39	1.41740 AU		2196 Sep 18 12:19	0° Ω	
	2195 Oct 14 18:21	0° \cap		max. Earth dist.	2196 Sep 21 16:20	5° Ω 38'25	1.39742 AU
desc. node	2195 Oct 15 06:26	0° \cap 48'51		evening rise	2196 Sep 25 19:12	12° Ω 43'17	
evening rise	2195 Oct 15 23:24	1° \cap 57'04		desc. node	2196 Oct 01 03:26	21° Ω 29'49	
	2195 Nov 03 14:29	0° \times			2196 Oct 06 14:02	0° \cap	
evening max el	2195 Nov 18 07:08	18° \times 27'14	22°38'07	evening max el	2196 Oct 28 21:25	0° \times	
retrograde	2195 Nov 28 03:29	24° \times 18'14			2196 Oct 30 20:52	2° \times 03'21	23°58'06
evening set	2195 Dec 02 19:20	22° \times 24'41		retrograde	2196 Nov 10 19:35	8° \times 29'33	
asc. node	2195 Dec 04 01:31	21° \times 14'21		evening set	2196 Nov 16 00:56	6° \times 18'56	
inferior conj	2195 Dec 08 03:57	16° \times 03'26	1°22'06	asc. node	2196 Nov 19 22:34	1° \times 57'37	
minimum elong	2195 Dec 08 02:11	16° \times 09'34	1°21'24	inferior conj	2196 Nov 21 10:59	29° \cap 55'09	0°31'10
min. Earth dist.	2195 Dec 07 23:43	16° \times 18'06	0.67850 AU	minimum elong	2196 Nov 21 10:15	29° \cap 57'40	0°30'51
morning rise	2195 Dec 13 08:54	9° \times 53'19		min. Earth dist.	2196 Nov 20 20:08	0° \times 45'30	0.67705 AU
direct	2195 Dec 17 21:49	8° \times 01'49			2196 Nov 21 09:33	30° κ \cap	
morning max el	2195 Dec 27 01:30	13° \times 24'31	21°57'19	morning rise	2196 Nov 26 19:33	23° \cap 49'53	
	2196 Jan 09 06:19	0° Ξ		direct	2196 Nov 30 18:42	22° \cap 20'48	
desc. node	2196 Jan 11 05:41	2° Ξ 48'16		morning max el	2196 Dec 08 20:32	27° \cap 00'16	20°38'52
morning set	2196 Jan 28 18:03	29° Ξ 27'17			2196 Dec 11 14:14	0° \times	
	2196 Jan 29 02:11	0° \approx		desc. node	2196 Dec 28 02:43	22° \times 56'27	
max. Earth dist.	2196 Feb 03 15:55	9° \approx 08'01	1.41306 AU		2197 Jan 01 18:50	0° Ξ	
superior conj	2196 Feb 11 09:31	22° \approx 24'53	-2°03'25	morning set	2197 Jan 06 20:06	7° Ξ 46'44	
minimum elong	2196 Feb 11 11:31	22° \approx 33'42	2°03'22	max. Earth dist.	2197 Jan 15 21:47	22° Ξ 08'49	1.43150 AU
	2196 Feb 15 15:10	0° H			2197 Jan 20 16:53	0° \approx	
evening rise	2196 Feb 21 22:43	11° H 37'10		superior conj	2197 Jan 22 11:31	2° \approx 57'36	-2°03'08
asc. node	2196 Mar 01 00:50	26° H 12'03		minimum elong	2197 Jan 22 08:49	2° \approx 46'17	2°03'05
	2196 Mar 03 08:58	0° Υ		evening rise	2197 Feb 03 14:20	23° \approx 53'02	
evening max el	2196 Mar 09 06:22	7° Υ 36'54	18°13'48		2197 Feb 07 01:29	0° H	
retrograde	2196 Mar 16 05:53	11° Υ 06'46		asc. node	2197 Feb 15 21:52	14° H 40'06	
evening set	2196 Mar 18 18:59	10° Υ 39'42		evening max el	2197 Feb 20 18:05	20° H 43'43	18°07'30
inferior conj	2196 Mar 25 18:14	5° Υ 54'32	3°11'20	retrograde	2197 Feb 27 06:45	24° H 07'14	
minimum elong	2196 Mar 25 21:23	5° Υ 47'32	3°10'46	evening set	2197 Mar 02 01:08	23° H 30'06	
min. Earth dist.	2196 Mar 29 03:29	2° Υ 56'17	0.59810 AU	inferior conj	2197 Mar 08 10:30	18° H 24'05	3°37'58
morning rise	2196 Apr 01 21:28	0° Υ 12'43		minimum elong	2197 Mar 08 11:45	18° H 20'55	3°37'53
	2196 Apr 02 06:17	30° κ H		min. Earth dist.	2197 Mar 11 09:45	15° H 24'25	0.61942 AU
direct	2196 Apr 08 09:19	28° H 15'37		morning rise	2197 Mar 14 20:58	12° H 26'40	
desc. node	2196 Apr 08 04:49	28° H 15'42		direct	2197 Mar 21 18:21	9° H 58'23	
	2196 Apr 14 19:02	0° Υ		desc. node	2197 Mar 26 01:52	10° H 50'35	
morning max el	2196 Apr 22 16:52	6° Υ 04'14	27°26'25	morning max el	2197 Apr 04 20:57	17° H 53'35	27°49'43
	2196 May 10 13:46	0° B			2197 Apr 15 00:04	0° Υ	
morning set	2196 May 24 02:27	25° B 17'31		morning set	2197 May 03 07:31	0° B	
	2196 May 26 08:03	0° Π			2197 May 08 05:47	9° B 42'37	
asc. node	2196 May 28 00:08	3° Π 35'41		max. Earth dist.	2197 May 14 00:10	21° B 51'08	1.32470 AU
max. Earth dist.	2196 May 30 14:26	9° Π 15'53	1.32177 AU	asc. node	2197 May 14 21:10	23° B 44'55	
superior conj	2196 May 31 06:08	10° Π 42'09	0°33'45	superior conj	2197 May 15 16:12	25° B 28'24	0°08'22
minimum elong	2196 May 31 04:41	10° Π 34'11	0°33'27	minimum elong	2197 May 15 15:48	25° B 26'16	0°08'17
evening rise	2196 Jun 07 02:36	25° Π 36'40		behind sun begin	2197 May 15 11:24	25° B 02'14	
	2196 Jun 09 05:03	0° E		behind sun end	2197 May 15 20:13	25° B 50'19	
	2196 Jun 26 15:08	0° Ω			2197 May 17 17:57	0° Π	
evening max el	2196 Jul 05 02:25	9° Ω 51'36	25°51'18	evening rise	2197 May 22 14:13	10° Π 28'47	
					2197 Jun 01 14:29	0° E	

evening max el	2197 Jun 16 17:29	20° \mathfrak{C} 38'22	24°25'07		2198 May 28 04:54	0° \mathfrak{C}	
desc. node	2197 Jun 22 01:05	24° \mathfrak{C} 53'35		evening max el	2198 May 29 07:35	1° \mathfrak{C} 07'03	22°49'01
retrograde	2197 Jun 30 14:32	27° \mathfrak{C} 39'00		desc. node	2198 Jun 08 22:07	7° \mathfrak{C} 27'23	
evening set	2197 Jul 05 10:11	26° \mathfrak{C} 47'03		retrograde	2198 Jun 11 14:29	7° \mathfrak{C} 43'48	
min. Earth dist.	2197 Jul 11 04:24	23° \mathfrak{C} 52'36	0.56760 AU	evening set	2198 Jun 14 22:20	7° \mathfrak{C} 19'29	
inferior conj	2197 Jul 13 21:26	22° \mathfrak{C} 09'29	-4°50'21	min. Earth dist.	2198 Jun 22 16:04	3° \mathfrak{C} 54'37	0.55412 AU
minimum elong	2197 Jul 13 17:48	22° \mathfrak{C} 15'17	4°50'00	inferior conj	2198 Jun 24 02:57	3° \mathfrak{C} 04'29	-3°57'18
morning rise	2197 Jul 22 04:07	18° \mathfrak{C} 06'35		minimum elong	2198 Jun 23 19:13	3° \mathfrak{C} 15'38	3°55'29
direct	2197 Jul 24 19:54	17° \mathfrak{C} 47'27			2198 Jun 30 04:16	30° \mathfrak{R} II	
morning max el	2197 Aug 03 07:21	22° \mathfrak{C} 11'52	19°32'10	morning rise	2198 Jul 02 18:29	29° \mathfrak{II} 12'28	
	2197 Aug 09 16:20	0° \mathfrak{O}		direct	2198 Jul 05 15:36	28° \mathfrak{II} 53'08	
asc. node	2197 Aug 10 20:25	1° \mathfrak{O} 48'09			2198 Jul 10 20:02	0° \mathfrak{C}	
morning set	2197 Aug 20 17:26	20° \mathfrak{O} 01'40		morning max el	2198 Jul 16 17:53	4° \mathfrak{C} 01'45	20°47'34
	2197 Aug 25 16:16	0° \mathfrak{M}		asc. node	2198 Jul 28 17:29	20° \mathfrak{C} 33'00	
					2198 Aug 02 16:39	0° \mathfrak{O}	
superior conj	2197 Aug 28 17:32	6° \mathfrak{M} 04'08	1°44'48	morning set	2198 Aug 05 00:17	4° \mathfrak{O} 42'28	
minimum elong	2197 Aug 28 18:21	6° \mathfrak{M} 08'11	1°44'46				
max. Earth dist.	2197 Sep 03 20:23	17° \mathfrak{M} 45'58	1.37696 AU	superior conj	2198 Aug 12 12:11	20° \mathfrak{O} 14'08	1°44'33
evening rise	2197 Sep 07 14:40	24° \mathfrak{M} 35'23		minimum elong	2198 Aug 12 11:25	20° \mathfrak{O} 10'16	1°44'32
	2197 Sep 10 17:06	0° \mathfrak{C}		max. Earth dist.	2198 Aug 17 04:14	29° \mathfrak{O} 36'16	1.35844 AU
desc. node	2197 Sep 18 00:27	12° \mathfrak{C} 01'08			2198 Aug 17 09:05	0° \mathfrak{M}	
	2197 Sep 30 05:56	0° \mathfrak{M}		evening rise	2198 Aug 21 06:20	7° \mathfrak{M} 25'27	
evening max el	2197 Oct 13 08:54	15° \mathfrak{M} 42'10	25°14'16		2198 Sep 03 10:06	0° \mathfrak{C}	
retrograde	2197 Oct 25 07:29	22° \mathfrak{M} 36'03		desc. node	2198 Sep 04 21:27	2° \mathfrak{C} 17'31	
evening set	2197 Oct 31 03:05	20° \mathfrak{M} 09'42		evening max el	2198 Sep 25 20:54	29° \mathfrak{C} 21'10	26°19'13
min. Earth dist.	2197 Nov 04 14:13	15° \mathfrak{M} 10'51	0.67222 AU		2198 Sep 26 13:12	0° \mathfrak{M}	
inferior conj	2197 Nov 05 15:50	13° \mathfrak{M} 47'28	-0°23'57	retrograde	2198 Oct 08 14:34	6° \mathfrak{M} 32'16	
minimum elong	2197 Nov 05 16:27	13° \mathfrak{M} 45'29	0°23'40	evening set	2198 Oct 14 23:54	3° \mathfrak{M} 54'00	
asc. node	2197 Nov 06 19:38	12° \mathfrak{M} 18'05			2198 Oct 18 18:01	30° \mathfrak{R} \mathfrak{C}	
morning rise	2197 Nov 11 06:01	7° \mathfrak{M} 49'27		min. Earth dist.	2198 Oct 19 03:41	29° \mathfrak{C} 31'00	0.66398 AU
direct	2197 Nov 14 17:02	6° \mathfrak{M} 40'25		inferior conj	2198 Oct 20 16:39	27° \mathfrak{C} 37'46	-1°21'48
morning max el	2197 Nov 21 23:30	10° \mathfrak{M} 46'48	19°33'19	minimum elong	2198 Oct 20 18:49	27° \mathfrak{C} 31'06	1°20'53
greatest brilliancy	2197 Dec 05 06:36	28° \mathfrak{M} 30'58	-0.7m	asc. node	2198 Oct 24 16:42	23° \mathfrak{C} 13'18	
	2197 Dec 06 06:19	0° \mathfrak{X}		morning rise	2198 Oct 26 14:15	21° \mathfrak{C} 49'35	
desc. node	2197 Dec 14 23:45	13° \mathfrak{X} 20'31		direct	2198 Oct 29 15:16	20° \mathfrak{C} 57'00	
morning set	2197 Dec 16 17:31	16° \mathfrak{X} 01'51		morning max el	2198 Nov 05 09:19	24° \mathfrak{C} 40'53	18°43'01
	2197 Dec 25 16:45	0° \mathfrak{Z}			2198 Nov 09 20:25	0° \mathfrak{M}	
max. Earth dist.	2197 Dec 29 10:38	5° \mathfrak{Z} 54'23	1.44464 AU	morning set	2198 Nov 26 10:15	25° \mathfrak{M} 19'58	
					2198 Nov 29 09:02	0° \mathfrak{X}	
superior conj	2198 Jan 02 11:11	12° \mathfrak{Z} 19'04	-1°44'57	desc. node	2198 Dec 01 20:46	3° \mathfrak{X} 55'45	
minimum elong	2198 Jan 02 03:19	11° \mathfrak{Z} 47'32	1°44'19	max. Earth dist.	2198 Dec 12 03:51	20° \mathfrak{X} 06'47	1.45107 AU
	2198 Jan 13 06:43	0° \mathfrak{A}					
evening rise	2198 Jan 16 10:06	5° \mathfrak{A} 15'21		superior conj	2198 Dec 12 15:32	20° \mathfrak{X} 52'37	-1°08'14
	2198 Jan 31 20:40	0° \mathfrak{X}		minimum elong	2198 Dec 12 07:25	20° \mathfrak{X} 20'44	1°07'16
asc. node	2198 Feb 02 18:54	2° \mathfrak{X} 25'27			2198 Dec 18 10:36	0° \mathfrak{Z}	
evening max el	2198 Feb 04 06:39	4° \mathfrak{X} 03'07	18°20'16	evening rise	2198 Dec 28 06:45	15° \mathfrak{Z} 39'22	
retrograde	2198 Feb 10 18:06	7° \mathfrak{X} 33'30		greatest brilliancy	2199 Jan 04 16:32	27° \mathfrak{Z} 32'13	-0.9m
evening set	2198 Feb 13 17:43	6° \mathfrak{X} 45'25			2199 Jan 06 05:43	0° \mathfrak{A}	
inferior conj	2198 Feb 19 16:56	1° \mathfrak{X} 20'16	3°42'10	evening max el	2199 Jan 18 17:28	17° \mathfrak{A} 29'00	18°51'08
minimum elong	2198 Feb 19 16:21	1° \mathfrak{X} 21'55	3°42'08	asc. node	2199 Jan 20 15:58	19° \mathfrak{A} 15'13	
	2198 Feb 20 21:05	30° \mathfrak{R} \mathfrak{A}		retrograde	2199 Jan 25 11:53	21° \mathfrak{A} 17'15	
min. Earth dist.	2198 Feb 22 01:36	28° \mathfrak{A} 39'58	0.63860 AU	evening set	2199 Jan 28 17:28	20° \mathfrak{A} 17'13	
morning rise	2198 Feb 25 14:14	25° \mathfrak{A} 14'00		inferior conj	2199 Feb 03 09:39	14° \mathfrak{A} 34'53	3°29'48
direct	2198 Mar 04 11:49	22° \mathfrak{A} 26'49		minimum elong	2199 Feb 03 07:48	14° \mathfrak{A} 40'37	3°29'33
desc. node	2198 Mar 12 22:56	25° \mathfrak{A} 46'42		min. Earth dist.	2199 Feb 05 02:50	12° \mathfrak{A} 27'36	0.65436 AU
	2198 Mar 17 20:45	0° \mathfrak{X}		morning rise	2199 Feb 08 21:44	8° \mathfrak{A} 24'04	
morning max el	2198 Mar 18 05:27	0° \mathfrak{X} 21'35	27°36'01	direct	2199 Feb 15 12:20	5° \mathfrak{A} 32'21	
	2198 Apr 09 00:25	0° \mathfrak{Y}		desc. node	2199 Feb 27 19:59	12° \mathfrak{A} 27'45	
morning set	2198 Apr 22 01:58	23° \mathfrak{Y} 43'24		morning max el	2199 Feb 28 15:16	13° \mathfrak{A} 15'24	26°49'54
	2198 Apr 25 04:34	0° \mathfrak{Z}			2199 Mar 14 04:04	0° \mathfrak{X}	
max. Earth dist.	2198 Apr 27 03:21	4° \mathfrak{Z} 02'47	1.33178 AU		2199 Apr 01 15:50	0° \mathfrak{Y}	
				morning set	2199 Apr 05 11:38	7° \mathfrak{Y} 08'28	
superior conj	2198 Apr 29 22:54	10° \mathfrak{Z} 00'33	-0°18'54	max. Earth dist.	2199 Apr 09 20:03	15° \mathfrak{Y} 39'52	1.34336 AU
minimum elong	2198 Apr 29 23:50	10° \mathfrak{Z} 05'34	0°18'43				
asc. node	2198 May 01 18:13	13° \mathfrak{Z} 52'59		superior conj	2199 Apr 14 00:01	24° \mathfrak{Y} 10'53	-0°47'00
evening rise	2198 May 07 01:56	25° \mathfrak{Z} 17'04		minimum elong	2199 Apr 14 02:24	24° \mathfrak{Y} 23'19	0°46'32
	2198 May 09 08:17	0° \mathfrak{II}			2199 Apr 16 18:41	0° \mathfrak{Z}	

asc. node	2199 Apr 18 15:15	3°♄54'58		evening rise	2200 Apr 05 17:36	24°♄13'47	
evening rise	2199 Apr 21 11:44	9°♄54'05		asc. node	2200 Apr 05 12:18	23°♄46'45	
	2199 May 02 02:50	0°♄			2200 Apr 08 14:34	0°♄	
evening max el	2199 May 11 04:23	11°♄49'10	21°17'46	evening max el	2200 Apr 23 12:28	23°♄05'56	20°01'09
retrograde	2199 May 23 04:37	17°♄41'17		retrograde	2200 May 03 19:22	28°♄04'32	
evening set	2199 May 25 11:58	17°♄29'03		evening set	2200 May 05 19:47	27°♄53'54	
desc. node	2199 May 26 19:10	17°♄11'54		desc. node	2200 May 13 16:12	24°♄33'48	
inferior conj	2199 Jun 03 21:23	13°♄29'49	-2°18'51	inferior conj	2200 May 14 18:38	23°♄54'17	-0°19'17
minimum elong	2199 Jun 03 15:03	13°♄38'43	2°16'42	minimum elong	2200 May 14 17:44	23°♄55'37	0°18'57
min. Earth dist.	2199 Jun 04 04:15	13°♄20'11	0.54899 AU	min. Earth dist.	2200 May 16 17:30	22°♄43'48	0.55351 AU
morning rise	2199 Jun 12 18:31	9°♄30'57		morning rise	2200 May 23 13:45	19°♄30'28	
direct	2199 Jun 16 01:42	9°♄07'19		direct	2200 May 27 15:28	18°♄54'11	
morning max el	2199 Jun 28 17:20	15°♄07'44	22°20'29	morning max el	2200 Jun 10 09:13	25°♄41'24	24°02'29
	2199 Jul 10 03:42	0°♄			2200 Jun 14 10:37	0°♄	
asc. node	2199 Jul 15 14:32	9°♄47'55		asc. node	2200 Jul 02 11:33	29°♄25'06	
morning set	2199 Jul 20 10:26	19°♄33'17			2200 Jul 02 18:23	0°♄	
	2199 Jul 25 08:36	0°♄		morning set	2200 Jul 04 22:07	4°♄28'53	
superior conj	2199 Jul 27 14:42	4°♄47'28	1°37'33	superior conj	2200 Jul 11 22:22	19°♄35'37	1°25'04
minimum elong	2199 Jul 27 12:53	4°♄37'50	1°37'25	minimum elong	2200 Jul 11 20:02	19°♄22'58	1°24'47
max. Earth dist.	2199 Jul 30 20:35	11°♄34'17	1.34334 AU	max. Earth dist.	2200 Jul 13 22:15	23°♄53'15	1.33223 AU
evening rise	2199 Aug 04 13:28	21°♄00'33			2200 Jul 16 19:42	0°♄	
	2199 Aug 09 07:51	0°♄		evening rise	2200 Jul 19 07:55	5°♄08'44	
desc. node	2199 Aug 22 18:29	22°♄12'01			2200 Aug 01 23:27	0°♄	
	2199 Aug 28 07:10	0°♄		desc. node	2200 Aug 09 15:31	11°♄34'55	
evening max el	2199 Sep 08 09:14	12°♄53'15	27°05'24	evening max el	2200 Aug 21 20:30	26°♄06'01	27°25'39
retrograde	2199 Sep 21 16:10	20°♄11'02			2200 Aug 26 13:07	0°♄	
evening set	2199 Sep 28 13:05	17°♄27'41		retrograde	2200 Sep 04 11:32	3°♄23'23	
min. Earth dist.	2199 Oct 02 10:11	13°♄40'51	0.65222 AU	evening set	2200 Sep 11 15:38	0°♄44'35	
inferior conj	2199 Oct 04 11:18	11°♄22'03	-2°20'33		2200 Sep 12 14:33	30°♄	
minimum elong	2199 Oct 04 15:04	11°♄11'23	2°19'07	min. Earth dist.	2200 Sep 15 07:30	27°♄31'26	0.63698 AU
morning rise	2199 Oct 10 17:53	5°♄46'47		inferior conj	2200 Sep 17 21:12	24°♄53'52	-3°17'33
asc. node	2199 Oct 11 13:45	5°♄26'15		minimum elong	2200 Sep 18 02:14	24°♄40'57	3°15'58
direct	2199 Oct 13 11:20	5°♄06'44		morning rise	2200 Sep 24 14:01	19°♄34'56	
morning max el	2199 Oct 19 23:44	8°♄37'20	18°09'17	direct	2200 Sep 27 02:28	19°♄03'50	
	2199 Nov 03 15:26	0°♄		asc. node	2200 Sep 28 10:47	19°♄12'54	
morning set	2199 Nov 07 08:17	6°♄06'28		morning max el	2200 Oct 03 15:56	22°♄29'25	17°52'55
desc. node	2199 Nov 18 17:48	24°♄38'36			2200 Oct 09 12:07	0°♄	
superior conj	2199 Nov 21 19:39	29°♄32'39	-0°20'36	morning set	2200 Oct 20 08:41	18°♄09'22	
minimum elong	2199 Nov 21 17:01	29°♄22'14	0°20'15		2200 Oct 27 06:35	0°♄	
	2199 Nov 22 02:33	0°♄		superior conj	2200 Nov 01 18:56	9°♄11'21	0°25'50
max. Earth dist.	2199 Nov 24 22:53	4°♄29'53	1.45015 AU	minimum elong	2200 Nov 01 21:38	9°♄22'28	0°25'28
evening rise	2199 Dec 08 05:19	25°♄12'13		desc. node	2200 Nov 05 14:49	15°♄25'11	
	2199 Dec 11 07:34	0°♄		max. Earth dist.	2200 Nov 07 16:50	18°♄45'50	1.44204 AU
greatest brilliancy	2199 Dec 20 22:31	14°♄45'40	-0.7m		2200 Nov 14 20:07	0°♄	
	2200 Jan 01 02:40	0°♄		evening rise	2200 Nov 17 14:44	4°♄17'32	
evening max el	2200 Jan 02 00:33	0°♄58'26	19°38'31		2200 Dec 04 19:16	0°♄	
asc. node	2200 Jan 07 13:01	4°♄55'26		evening max el	2200 Dec 16 02:25	14°♄28'48	20°40'13
retrograde	2200 Jan 09 08:53	5°♄13'47		retrograde	2200 Dec 24 06:45	19°♄18'40	
evening set	2200 Jan 12 21:50	4°♄00'26		asc. node	2200 Dec 25 10:03	19°♄11'27	
	2200 Jan 16 21:20	30°♄		evening set	2200 Dec 28 04:45	17°♄50'33	
inferior conj	2200 Jan 18 09:31	28°♄03'14	3°05'04	inferior conj	2201 Jan 02 13:56	11°♄41'11	2°30'49
minimum elong	2200 Jan 18 07:01	28°♄11'28	3°04'30	minimum elong	2201 Jan 02 11:21	11°♄50'01	2°30'02
min. Earth dist.	2200 Jan 19 12:09	26°♄35'38	0.66617 AU	min. Earth dist.	2201 Jan 03 03:31	10°♄54'49	0.67393 AU
morning rise	2200 Jan 23 15:57	21°♄50'22		morning rise	2201 Jan 07 17:47	5°♄28'04	
direct	2200 Jan 29 18:45	19°♄06'58		direct	2201 Jan 13 06:12	3°♄01'51	
morning max el	2200 Feb 11 00:19	26°♄23'44	25°39'37	morning max el	2201 Jan 24 08:41	9°♄39'07	24°15'09
	2200 Feb 14 08:32	0°♄		desc. node	2201 Feb 01 14:03	19°♄14'21	
desc. node	2200 Feb 14 17:01	0°♄24'20			2201 Feb 09 10:49	0°♄	
	2200 Mar 07 18:14	0°♄		morning set	2201 Feb 28 10:45	0°♄	
morning set	2200 Mar 19 06:27	19°♄45'11		max. Earth dist.	2201 Mar 01 04:43	1°♄17'49	
max. Earth dist.	2200 Mar 23 01:01	26°♄47'33	1.35955 AU		2201 Mar 04 21:43	7°♄51'17	1.37946 AU
	2200 Mar 24 17:08	0°♄		superior conj	2201 Mar 11 22:18	20°♄55'11	-1°38'51
superior conj	2200 Mar 28 16:57	7°♄52'12	-1°14'23	minimum elong	2201 Mar 12 02:38	21°♄15'59	1°38'21
minimum elong	2200 Mar 28 20:38	8°♄10'42	1°13'47		2201 Mar 16 14:12	0°♄	

evening rise	2201 Mar 20 17:07	8° Υ 09'11		minimum elong	2202 Feb 22 15:16	3° X 25'09	1°57'01
asc. node	2201 Mar 23 09:20	13° Υ 23'24		evening rise	2202 Mar 04 07:16	21° X 32'45	
	2201 Apr 02 01:49	0° B			2202 Mar 08 19:18	0° Υ	
evening max el	2201 Apr 06 07:50	5° B 02'01	19°03'37	asc. node	2202 Mar 10 06:22	2° Υ 39'13	
retrograde	2201 Apr 14 23:49	9° B 14'22		evening max el	2202 Mar 20 12:05	17° Υ 32'20	18°26'12
evening set	2201 Apr 17 03:27	8° B 59'54		retrograde	2202 Mar 27 23:12	21° Υ 13'20	
inferior conj	2201 Apr 25 07:33	4° B 46'15	1°27'39	evening set	2202 Mar 30 08:43	20° Υ 51'39	
minimum elong	2201 Apr 25 10:45	4° B 40'41	1°26'36	inferior conj	2202 Apr 06 17:39	16° Υ 18'27	2°43'06
min. Earth dist.	2201 Apr 28 08:49	2° B 40'10	0.56665 AU	minimum elong	2202 Apr 06 21:31	16° Υ 10'35	2°42'10
desc. node	2201 Apr 30 13:12	1° B 18'20		min. Earth dist.	2202 Apr 10 04:13	13° Υ 32'16	0.58573 AU
	2201 May 03 03:14	30° R Υ		morning rise	2202 Apr 14 07:27	10° Υ 49'21	
morning rise	2201 May 03 15:00	29° Υ 48'01		desc. node	2202 Apr 17 10:15	9° Υ 36'11	
direct	2201 May 08 17:12	28° Υ 47'06		direct	2202 Apr 20 08:56	9° Υ 13'24	
	2201 May 14 07:30	0° B		morning max el	2202 May 04 18:13	16° Υ 55'39	26°56'38
morning max el	2201 May 22 23:42	6° B 08'14	25°39'50		2202 May 15 12:34	0° B	
	2201 Jun 09 09:43	0° II			2202 Jun 01 18:41	0° II	
morning set	2201 Jun 19 09:43	19° II 24'13		morning set	2202 Jun 03 19:34	4° II 12'32	
asc. node	2201 Jun 19 08:35	19° II 18'14		asc. node	2202 Jun 06 05:37	9° II 21'06	
	2201 Jun 24 07:29	0° E					
superior conj	2201 Jun 26 09:02	4° E 31'43	1°08'02	superior conj	2202 Jun 10 20:47	19° II 28'27	0°47'13
minimum elong	2201 Jun 26 06:41	4° E 18'51	1°07'39	minimum elong	2202 Jun 10 18:53	19° II 18'01	0°46'50
max. Earth dist.	2201 Jun 27 06:51	6° E 31'12	1.32506 AU	max. Earth dist.	2202 Jun 10 18:42	19° II 16'59	1.32179 AU
evening rise	2201 Jul 03 10:19	19° E 39'59			2202 Jun 15 16:18	0° E	
	2201 Jul 08 14:38	0° Q		evening rise	2202 Jun 17 17:57	4° E 24'37	
	2201 Jul 27 08:20	0° P			2202 Jul 01 09:02	0° Q	
desc. node	2201 Jul 27 12:31	0° P 13'18		desc. node	2202 Jul 14 09:31	17° Q 47'43	
evening max el	2201 Aug 04 04:07	8° P 46'00	27°14'38	evening max el	2202 Jul 17 05:30	20° Q 41'15	26°30'30
retrograde	2201 Aug 18 00:05	16° P 00'48		retrograde	2202 Jul 31 04:57	27° Q 53'37	
evening set	2201 Aug 25 03:49	13° P 38'52		evening set	2202 Aug 06 20:58	26° Q 01'46	
min. Earth dist.	2201 Aug 28 18:16	10° P 51'37	0.61863 AU	min. Earth dist.	2202 Aug 10 18:50	23° Q 25'49	0.59819 AU
inferior conj	2201 Aug 31 19:20	8° P 06'12	-4°08'28	inferior conj	2202 Aug 14 02:09	20° Q 49'02	-4°46'12
minimum elong	2201 Sep 01 00:41	7° P 54'01	4°07'14	minimum elong	2202 Aug 14 05:55	20° Q 41'33	4°45'44
morning rise	2201 Sep 07 23:08	3° P 07'11		morning rise	2202 Aug 21 16:56	16° Q 12'29	
direct	2201 Sep 10 09:15	2° P 42'04		direct	2202 Aug 24 03:21	15° Q 51'03	
asc. node	2201 Sep 15 07:49	4° P 30'08		morning max el	2202 Aug 31 17:50	19° Q 32'29	18°16'09
morning max el	2201 Sep 17 07:01	6° P 10'47	17°54'48	asc. node	2202 Sep 02 04:51	21° Q 03'50	
	2201 Oct 02 13:47	0° A			2202 Sep 08 11:55	0° P	
morning set	2201 Oct 03 05:09	1° A 09'45		morning set	2202 Sep 16 16:03	14° P 51'10	
					2202 Sep 24 17:25	0° A	
superior conj	2201 Oct 13 21:18	20° A 10'15	1°02'41	superior conj	2202 Sep 26 00:25	2° A 21'51	1°27'34
minimum elong	2201 Oct 14 01:49	20° A 29'45	1°02'07	minimum elong	2202 Sep 26 04:08	2° A 38'43	1°27'12
	2201 Oct 19 16:48	0° M		max. Earth dist.	2202 Oct 03 14:29	15° A 44'12	1.40912 AU
max. Earth dist.	2201 Oct 21 06:35	2° M 35'39	1.42776 AU	evening rise	2202 Oct 08 09:16	23° A 43'24	
desc. node	2201 Oct 23 11:51	6° M 12'24		desc. node	2202 Oct 10 08:51	26° A 56'31	
evening rise	2201 Oct 28 03:07	13° M 35'30			2202 Oct 12 06:48	0° M	
	2201 Nov 07 21:15	0° X			2202 Nov 01 20:03	0° X	
evening max el	2201 Nov 28 22:36	27° X 59'54	21°52'57	evening max el	2202 Nov 11 14:02	11° X 33'12	23°12'06
	2201 Dec 01 01:18	0° B		retrograde	2202 Nov 21 21:55	17° X 40'33	
retrograde	2201 Dec 08 03:36	3° B 28'45		evening set	2202 Nov 26 19:19	15° X 39'38	
asc. node	2201 Dec 12 07:04	1° B 55'10		asc. node	2202 Nov 29 04:06	13° X 14'10	
evening set	2201 Dec 12 12:28	1° B 44'35		inferior conj	2202 Dec 02 04:22	9° X 16'30	1°01'04
	2201 Dec 14 07:59	30° R X		minimum elong	2202 Dec 02 03:00	9° X 21'15	1°00'30
inferior conj	2201 Dec 17 20:51	25° X 26'23	1°49'01	min. Earth dist.	2202 Dec 01 19:33	9° X 46'52	0.67826 AU
minimum elong	2201 Dec 17 18:40	25° X 33'59	1°48'12	morning rise	2202 Dec 07 10:36	3° X 08'05	
min. Earth dist.	2201 Dec 17 22:47	25° X 19'43	0.67787 AU	direct	2202 Dec 11 17:22	1° X 26'29	
morning rise	2201 Dec 23 00:43	19° X 14'38		morning max el	2202 Dec 20 09:36	6° X 30'17	21°22'32
direct	2201 Dec 27 21:59	17° X 10'15		desc. node	2203 Jan 06 08:08	28° X 38'46	
morning max el	2202 Jan 06 18:39	23° X 00'30	22°46'35		2203 Jan 07 06:17	0° B	
	2202 Jan 12 21:26	0° B		morning set	2203 Jan 20 15:20	20° B 24'54	
desc. node	2202 Jan 19 11:05	8° B 42'47			2203 Jan 26 14:37	0° A	
	2202 Feb 02 20:04	0° A		max. Earth dist.	2203 Jan 27 18:17	1° A 53'21	1.42136 AU
morning set	2202 Feb 10 00:25	11° A 31'42					
max. Earth dist.	2202 Feb 14 17:24	19° A 26'08	1.40100 AU	superior conj	2203 Feb 04 04:08	14° A 22'08	-2°05'14
	2202 Feb 20 17:56	0° X		minimum elong	2203 Feb 04 04:25	14° A 23'23	2°05'15
					2203 Feb 12 23:55	0° X	
superior conj	2202 Feb 22 11:45	3° X 09'06	-1°57'14	evening rise	2203 Feb 15 08:22	4° X 16'05	

asc. node	2203 Feb 25 03:25	21° Υ 27'31		max. Earth dist.	2204 Jan 10 02:53	15° \mathfrak{Z} 13'17	1.43785 AU
	2203 Mar 03 10:38	0° Υ					
evening max el	2203 Mar 03 22:04	0° Υ 28'59	18°08'47	superior conj	2204 Jan 15 18:52	24° \mathfrak{Z} 24'00	-1°57'49
retrograde	2203 Mar 10 15:49	3° Υ 54'31		minimum elong	2204 Jan 15 13:45	24° \mathfrak{Z} 03'01	1°57'33
evening set	2203 Mar 13 07:08	3° Υ 23'27			2204 Jan 19 04:08	0° \approx	
	2203 Mar 18 08:34	30° \mathfrak{R} \mathfrak{H}		evening rise	2204 Jan 28 16:01	16° \approx 09'32	
inferior conj	2203 Mar 20 00:01	28° \mathfrak{H} 29'34	3°25'47		2204 Feb 05 17:45	0° \mathfrak{H}	
minimum elong	2203 Mar 20 02:24	28° \mathfrak{H} 23'56	3°25'28	asc. node	2204 Feb 12 00:29	9° \mathfrak{H} 38'46	
min. Earth dist.	2203 Mar 23 06:03	25° \mathfrak{H} 27'24	0.60724 AU	evening max el	2204 Feb 15 10:34	13° \mathfrak{H} 42'13	18°10'43
morning rise	2203 Mar 26 19:43	22° \mathfrak{H} 39'50		retrograde	2204 Feb 21 21:32	17° \mathfrak{H} 06'49	
direct	2203 Apr 02 12:50	20° \mathfrak{H} 27'58		evening set	2204 Feb 24 18:10	16° \mathfrak{H} 25'07	
desc. node	2203 Apr 04 07:18	20° \mathfrak{H} 36'42		inferior conj	2204 Mar 01 22:48	11° \mathfrak{H} 11'01	3°42'03
morning max el	2203 Apr 16 18:56	28° \mathfrak{H} 21'13	27°40'56	minimum elong	2204 Mar 01 23:13	11° \mathfrak{H} 09'53	3°42'02
	2203 Apr 18 09:28	0° Υ		min. Earth dist.	2204 Mar 04 16:16	8° \mathfrak{H} 17'19	0.62800 AU
	2203 May 09 06:51	0° \mathfrak{B}		morning rise	2204 Mar 08 03:13	5° \mathfrak{H} 09'23	
morning set	2203 May 19 01:52	18° \mathfrak{B} 48'02		direct	2204 Mar 15 01:57	2° \mathfrak{H} 31'02	
asc. node	2203 May 24 02:41	29° \mathfrak{B} 29'21		desc. node	2204 Mar 21 04:21	4° \mathfrak{H} 15'38	
	2203 May 24 08:20	0° Π		morning max el	2204 Mar 29 00:59	10° \mathfrak{H} 26'59	27°48'06
max. Earth dist.	2203 May 25 06:10	1° Π 59'01	1.32246 AU		2204 Apr 13 08:33	0° Υ	
					2204 Apr 30 13:44	0° \mathfrak{B}	
superior conj	2203 May 26 07:59	4° Π 20'18	0°23'17	morning set	2204 May 02 02:26	3° \mathfrak{B} 03'14	
minimum elong	2203 May 26 06:57	4° Π 14'36	0°23'03	max. Earth dist.	2204 May 07 13:21	14° \mathfrak{B} 24'12	1.32718 AU
evening rise	2203 Jun 02 04:41	19° Π 15'50					
	2203 Jun 07 10:52	0° \mathfrak{D}		superior conj	2204 May 09 16:51	19° \mathfrak{B} 01'05	-0°03'03
	2203 Jun 27 04:06	0° Ω		minimum elong	2204 May 09 17:00	19° \mathfrak{B} 01'52	0°03'01
evening max el	2203 Jun 28 23:52	1° Ω 50'09	25°16'53	behind sun begin	2204 May 09 11:51	18° \mathfrak{B} 34'05	
desc. node	2203 Jul 01 06:33	3° Ω 52'06		behind sun end	2204 May 09 22:08	19° \mathfrak{B} 29'41	
retrograde	2203 Jul 13 00:02	8° Ω 57'25		asc. node	2204 May 09 23:45	19° \mathfrak{B} 38'27	
evening set	2203 Jul 18 14:51	7° Ω 44'17			2204 May 14 18:23	0° Π	
min. Earth dist.	2203 Jul 23 11:45	5° Ω 01'04	0.57791 AU	evening rise	2204 May 16 16:33	4° Π 06'43	
inferior conj	2203 Jul 26 14:16	2° Ω 53'11	-4°59'28		2204 May 30 15:31	0° \mathfrak{D}	
minimum elong	2203 Jul 26 13:51	2° Ω 53'55	4°59'28	evening max el	2204 Jun 09 13:49	12° \mathfrak{D} 25'47	23°44'36
	2203 Jul 31 04:50	30° \mathfrak{R} \mathfrak{D}		desc. node	2204 Jun 17 03:34	17° \mathfrak{D} 52'51	
morning rise	2203 Aug 03 15:21	28° \mathfrak{D} 38'52		retrograde	2204 Jun 23 06:41	19° \mathfrak{D} 18'05	
direct	2203 Aug 06 04:29	28° \mathfrak{D} 19'21		evening set	2204 Jun 27 10:36	18° \mathfrak{D} 40'00	
	2203 Aug 11 18:24	0° Ω		min. Earth dist.	2204 Jul 04 00:19	15° \mathfrak{D} 34'02	0.56099 AU
morning max el	2203 Aug 14 21:07	2° Ω 24'51	18°58'14	inferior conj	2204 Jul 06 06:13	14° \mathfrak{D} 12'36	-4°33'56
asc. node	2203 Aug 20 01:54	8° Ω 38'51		minimum elong	2204 Jul 06 00:23	14° \mathfrak{D} 21'28	4°33'02
morning set	2203 Aug 31 13:05	29° Ω 02'06		morning rise	2204 Jul 14 16:46	10° \mathfrak{D} 15'38	
	2203 Sep 01 00:50	0° \mathfrak{N}		direct	2204 Jul 17 10:39	9° \mathfrak{D} 56'34	
				morning max el	2204 Jul 27 14:05	14° \mathfrak{D} 38'45	20°01'48
superior conj	2203 Sep 08 22:50	15° \mathfrak{N} 30'34	1°41'16	asc. node	2204 Aug 05 22:58	27° \mathfrak{D} 01'35	
minimum elong	2203 Sep 09 00:44	15° \mathfrak{N} 39'39	1°41'10		2204 Aug 07 16:15	0° Ω	
max. Earth dist.	2203 Sep 15 18:28	28° \mathfrak{N} 09'52	1.38861 AU	morning set	2204 Aug 14 17:06	13° Ω 34'16	
	2203 Sep 16 19:09	0° \mathfrak{A}					
evening rise	2203 Sep 19 15:22	4° \mathfrak{A} 58'07		superior conj	2204 Aug 22 11:21	29° Ω 21'45	1°45'36
desc. node	2203 Sep 27 05:52	17° \mathfrak{A} 33'48		minimum elong	2204 Aug 22 11:27	29° Ω 22'15	1°45'36
	2203 Oct 05 08:55	0° \mathfrak{M}			2204 Aug 22 19:00	0° \mathfrak{N}	
evening max el	2203 Oct 25 02:48	25° \mathfrak{M} 10'32	24°31'28	max. Earth dist.	2204 Aug 27 23:37	10° \mathfrak{N} 07'41	1.36874 AU
	2203 Oct 31 00:02	0° \mathfrak{J}		evening rise	2204 Aug 31 20:02	17° \mathfrak{N} 16'39	
retrograde	2203 Nov 05 12:26	1° \mathfrak{J} 50'06			2204 Sep 08 03:50	0° \mathfrak{A}	
	2203 Nov 10 10:13	30° \mathfrak{R} \mathfrak{M}		desc. node	2204 Sep 13 02:54	7° \mathfrak{A} 59'47	
evening set	2203 Nov 10 23:41	29° \mathfrak{M} 32'45			2204 Sep 28 17:11	0° \mathfrak{M}	
min. Earth dist.	2203 Nov 15 15:24	24° \mathfrak{M} 13'33	0.67537 AU	evening max el	2204 Oct 06 14:57	8° \mathfrak{M} 51'20	25°43'50
inferior conj	2203 Nov 16 10:43	23° \mathfrak{M} 08'58	0°08'14	retrograde	2204 Oct 18 22:16	15° \mathfrak{M} 53'15	
minimum elong	2203 Nov 16 10:31	23° \mathfrak{M} 09'39	0°08'09	evening set	2204 Oct 24 23:48	13° \mathfrak{M} 21'31	
transit middle	2203 Nov 16 10:31	23° \mathfrak{M} 09'39	0°08'09	min. Earth dist.	2204 Oct 29 07:52	8° \mathfrak{M} 37'40	0.66915 AU
transit begin	2203 Nov 16 08:09	23° \mathfrak{M} 17'35		inferior conj	2204 Oct 30 14:07	7° \mathfrak{M} 01'29	-0°48'11
transit end	2203 Nov 16 12:54	23° \mathfrak{M} 01'43		minimum elong	2204 Oct 30 15:22	6° \mathfrak{M} 57'30	0°47'39
asc. node	2203 Nov 16 01:09	23° \mathfrak{M} 40'58		asc. node	2204 Nov 01 22:12	4° \mathfrak{M} 10'15	
morning rise	2203 Nov 21 21:25	17° \mathfrak{M} 06'11		morning rise	2204 Nov 05 07:13	1° \mathfrak{M} 07'07	
direct	2203 Nov 25 15:09	15° \mathfrak{M} 45'57		direct	2204 Nov 08 13:49	0° \mathfrak{M} 05'20	
morning max el	2203 Dec 03 07:56	20° \mathfrak{M} 10'21	20°09'06	morning max el	2204 Nov 15 13:59	4° \mathfrak{M} 00'42	19°09'56
	2203 Dec 11 07:58	0° \mathfrak{J}			2204 Dec 04 01:13	0° \mathfrak{J}	
desc. node	2203 Dec 24 05:09	18° \mathfrak{J} 54'09		morning set	2204 Dec 08 15:33	7° \mathfrak{J} 08'54	
morning set	2203 Dec 30 12:07	28° \mathfrak{J} 32'25		desc. node	2204 Dec 10 02:12	9° \mathfrak{J} 23'50	
	2203 Dec 31 10:45	0° \mathfrak{Z}		max. Earth dist.	2204 Dec 22 18:21	29° \mathfrak{J} 14'11	1.44836 AU

	2204 Dec 23 05:58	0°♄		superior conj	2205 Dec 04 10:14	11°♄49'20	-0°48'39
				minimum elong	2205 Dec 04 04:02	11°♄24'58	0°47'51
superior conj	2204 Dec 25 08:47	3°♄20'53	-1°31'23	max. Earth dist.	2205 Dec 05 13:16	13°♄35'29	1.45163 AU
minimum elong	2204 Dec 24 23:56	2°♄45'51	1°30'32		2205 Dec 16 00:10	0°♄	
evening rise	2205 Jan 09 02:13	27°♄07'25		evening rise	2205 Dec 20 13:02	7°♄08'41	
	2205 Jan 10 20:09	0°♄		greatest brilliancy	2205 Dec 30 11:38	22°♄46'50	-0.8m
asc. node	2205 Jan 28 21:31	27°♄02'10			2206 Jan 04 05:30	0°♄	
evening max el	2205 Jan 28 22:44	27°♄05'14	18°31'12	evening max el	2206 Jan 12 08:09	10°♄33'03	19°09'16
	2205 Feb 01 17:34	0°♄		asc. node	2206 Jan 15 18:32	13°♄24'27	
retrograde	2205 Feb 04 12:01	0°♄41'35		retrograde	2206 Jan 19 07:37	14°♄31'52	
	2205 Feb 07 05:28	30°♄		evening set	2206 Jan 22 16:11	13°♄26'13	
evening set	2205 Feb 07 14:09	29°♄48'22		inferior conj	2206 Jan 28 06:09	7°♄36'56	3°20'38
inferior conj	2205 Feb 13 10:02	24°♄15'32	3°38'37	minimum elong	2206 Jan 28 03:57	7°♄43'57	3°20'14
minimum elong	2205 Feb 13 08:50	24°♄19'04	3°38'30	min. Earth dist.	2206 Jan 29 16:52	5°♄46'23	0.65990 AU
min. Earth dist.	2205 Feb 15 12:01	21°♄48'21	0.64590 AU	morning rise	2206 Feb 02 15:26	1°♄24'58	
morning rise	2205 Feb 19 03:00	18°♄07'12			2206 Feb 04 11:58	30°♄	
direct	2205 Feb 25 22:24	15°♄16'33		direct	2206 Feb 09 01:19	28°♄35'48	
desc. node	2205 Mar 08 01:24	20°♄00'25			2206 Feb 14 01:45	0°♄	
morning max el	2205 Mar 11 10:13	23°♄06'50	27°19'50	morning max el	2206 Feb 21 20:08	6°♄09'17	26°22'27
	2205 Mar 17 13:15	0°♄		desc. node	2206 Feb 22 22:27	7°♄17'08	
	2205 Apr 06 15:20	0°♄			2206 Mar 12 05:46	0°♄	
morning set	2205 Apr 15 18:34	16°♄49'40		morning set	2206 Mar 29 22:35	29°♄56'31	
max. Earth dist.	2205 Apr 20 12:33	26°♄21'56	1.33621 AU		2206 Mar 29 23:19	0°♄	
	2205 Apr 22 06:33	0°♄		max. Earth dist.	2206 Apr 03 00:38	7°♄47'13	1.34975 AU
superior conj	2205 Apr 23 21:26	3°♄24'33	-0°30'49	superior conj	2206 Apr 07 19:27	17°♄23'56	-0°58'49
minimum elong	2205 Apr 23 22:59	3°♄32'46	0°30'29	minimum elong	2206 Apr 07 22:26	17°♄39'14	0°58'16
asc. node	2205 Apr 26 20:49	9°♄44'23		asc. node	2206 Apr 13 17:51	29°♄42'59	
evening rise	2205 May 01 03:41	18°♄50'58			2206 Apr 13 21:07	0°♄	
	2205 May 06 16:11	0°♄		evening rise	2206 Apr 15 12:08	3°♄22'11	
evening max el	2205 May 22 05:54	22°♄56'11	22°08'48		2206 Apr 30 19:51	0°♄	
retrograde	2205 Jun 04 01:14	29°♄15'42		evening max el	2206 May 04 07:08	3°♄51'29	20°42'56
desc. node	2205 Jun 04 00:36	29°♄15'42		retrograde	2206 May 15 14:29	9°♄21'33	
evening set	2205 Jun 06 20:51	28°♄58'05		evening set	2206 May 17 16:56	9°♄10'53	
min. Earth dist.	2205 Jun 15 11:37	25°♄16'42	0.55080 AU	desc. node	2206 May 21 21:38	7°♄52'47	
inferior conj	2205 Jun 16 05:31	24°♄51'33	-3°20'10	inferior conj	2206 May 26 23:22	5°♄13'06	-1°28'36
minimum elong	2205 Jun 15 21:36	25°♄02'40	3°17'53	minimum elong	2206 May 26 19:11	5°♄19'06	1°27'05
morning rise	2205 Jun 25 00:05	20°♄59'24		min. Earth dist.	2206 May 28 00:03	4°♄37'44	0.54971 AU
direct	2205 Jun 28 00:57	20°♄38'47		morning rise	2206 Jun 04 20:52	1°♄05'47	
morning max el	2205 Jul 09 19:32	26°♄08'38	21°25'27	direct	2206 Jun 08 10:35	0°♄38'18	
	2205 Jul 13 10:43	0°♄		morning max el	2206 Jun 21 15:18	6°♄59'34	23°03'35
asc. node	2205 Jul 23 20:01	16°♄00'15			2206 Jul 07 21:14	0°♄	
morning set	2205 Jul 30 01:35	28°♄20'04		asc. node	2206 Jul 10 17:05	5°♄25'56	
	2205 Jul 30 20:48	0°♄		morning set	2206 Jul 14 12:35	13°♄14'00	
superior conj	2205 Aug 06 09:42	13°♄42'34	1°42'19	superior conj	2206 Jul 21 14:43	28°♄23'35	1°32'52
minimum elong	2205 Aug 06 08:25	13°♄35'57	1°42'16	minimum elong	2206 Jul 21 12:37	28°♄12'20	1°32'40
max. Earth dist.	2205 Aug 10 11:05	22°♄00'12	1.35151 AU		2206 Jul 22 08:48	0°♄	
evening rise	2205 Aug 14 18:46	0°♄26'58		max. Earth dist.	2206 Jul 24 07:28	4°♄06'34	1.33807 AU
	2205 Aug 14 13:07	0°♄		evening rise	2206 Jul 29 07:10	14°♄17'28	
desc. node	2205 Aug 30 23:55	28°♄07'58			2206 Aug 06 17:14	0°♄	
	2205 Sep 01 05:43	0°♄		desc. node	2206 Aug 17 20:56	17°♄50'27	
evening max el	2205 Sep 19 03:12	22°♄28'39	26°41'38		2206 Aug 27 02:44	0°♄	
retrograde	2205 Oct 02 02:51	29°♄43'03		evening max el	2206 Sep 01 15:02	5°♄53'02	27°17'28
evening set	2205 Oct 08 17:38	27°♄01'33		retrograde	2206 Sep 15 01:52	13°♄11'44	
min. Earth dist.	2205 Oct 12 18:29	22°♄54'16	0.65944 AU	evening set	2206 Sep 22 02:41	10°♄28'31	
inferior conj	2205 Oct 14 12:33	20°♄49'35	-1°46'42	min. Earth dist.	2206 Sep 25 21:09	6°♄56'54	0.64616 AU
minimum elong	2205 Oct 14 15:25	20°♄41'05	1°45'32	inferior conj	2206 Sep 28 03:46	4°♄28'47	-2°45'11
asc. node	2205 Oct 19 19:14	15°♄34'35		minimum elong	2206 Sep 28 08:09	4°♄16'52	2°43'37
morning rise	2205 Oct 20 13:48	15°♄06'39			2206 Oct 02 21:33	30°♄	
direct	2205 Oct 23 11:24	14°♄19'46		morning rise	2206 Oct 04 14:37	29°♄00'22	
morning max el	2205 Oct 30 02:04	17°♄56'32	18°26'41	asc. node	2206 Oct 06 16:16	28°♄26'15	
	2205 Nov 08 03:06	0°♄		direct	2206 Oct 07 05:34	28°♄24'38	
morning set	2205 Nov 18 20:34	17°♄04'53			2206 Oct 11 13:33	0°♄	
desc. node	2205 Nov 26 23:13	0°♄02'53		morning max el	2206 Oct 13 17:37	1°♄52'01	18°00'12
	2205 Nov 26 22:29	0°♄		morning set	2206 Oct 31 06:23	28°♄25'20	
					2206 Nov 01 04:54	0°♄	

superior conj	2206 Nov 13 20:37	20°♍49'16	-0°00'07	superior conj	2207 Oct 25 07:14	1°♍01'49	0°42'53
minimum elong	2206 Nov 13 20:37	20°♍49'15	0°00'06	minimum elong	2207 Oct 25 11:09	1°♍18'13	0°42'22
behind sun begin	2206 Nov 13 10:17	20°♍07'43		desc. node	2207 Oct 31 17:14	11°♍35'05	
behind sun end	2206 Nov 14 06:57	21°♍30'42		max. Earth dist.	2207 Oct 31 23:47	12°♍01'28	1.43654 AU
desc. node	2206 Nov 13 20:13	20°♍47'38		evening rise	2207 Nov 09 12:45	25°♍30'20	
max. Earth dist.	2206 Nov 18 07:55	27°♍56'37	1.44748 AU		2207 Nov 12 10:50	0°♊	
	2206 Nov 19 15:11	0°♊			2207 Dec 03 03:25	0°♊	
evening rise	2206 Nov 30 04:18	16°♊25'11		evening max el	2207 Dec 09 12:27	7°♊33'36	21°10'09
	2206 Dec 09 01:16	0°♊		retrograde	2207 Dec 18 03:02	12°♊40'01	
greatest brilliancy	2206 Dec 14 09:27	8°♊00'11	-0.6m	asc. node	2207 Dec 20 12:34	12°♊08'07	
evening max el	2206 Dec 26 13:00	24°♊02'33	20°03'09	evening set	2207 Dec 22 05:19	11°♊05'28	
asc. node	2207 Jan 02 15:33	28°♊30'33		inferior conj	2207 Dec 27 13:59	4°♊52'02	2°13'57
retrograde	2207 Jan 03 05:22	28°♊32'23		minimum elong	2207 Dec 27 11:31	5°♊00'34	2°13'08
evening set	2207 Jan 06 21:52	27°♊13'02		min. Earth dist.	2207 Dec 27 22:33	4°♊22'31	0.67598 AU
inferior conj	2207 Jan 12 08:14	21°♊10'05	2°51'36		2207 Dec 31 08:57	30°♊♊	
minimum elong	2207 Jan 12 05:38	21°♊18'49	2°50'55	morning rise	2208 Jan 01 17:30	28°♊39'05	
min. Earth dist.	2207 Jan 13 05:08	20°♊00'00	0.66988 AU	direct	2208 Jan 06 23:32	26°♊21'33	
morning rise	2207 Jan 17 13:12	14°♊56'40			2208 Jan 14 16:34	0°♊	
direct	2207 Jan 23 09:57	12°♊19'46		morning max el	2208 Jan 17 13:27	2°♊39'46	23°37'26
morning max el	2207 Feb 04 04:55	19°♊22'00	25°04'51	desc. node	2208 Jan 27 16:29	14°♊47'13	
desc. node	2207 Feb 09 19:28	25°♊38'53			2208 Feb 07 09:04	0°♊	
	2207 Feb 13 06:15	0°♊		morning set	2208 Feb 21 21:11	23°♊10'09	
	2207 Mar 05 08:31	0°♊			2208 Feb 25 20:00	0°♊	
morning set	2207 Mar 12 09:28	12°♊08'43		max. Earth dist.	2208 Feb 25 20:10	0°♊00'44	1.38856 AU
max. Earth dist.	2207 Mar 16 01:20	18°♊49'13	1.36762 AU				
	2207 Mar 21 21:42	0°♊		superior conj	2208 Mar 04 07:09	13°♊34'32	-1°47'36
superior conj	2207 Mar 22 07:55	0°♊50'16	-1°25'17	minimum elong	2208 Mar 04 11:22	13°♊54'23	1°47'14
minimum elong	2207 Mar 22 12:00	1°♊10'23	1°24'42		2208 Mar 12 20:00	0°♊	
evening rise	2207 Mar 30 15:38	17°♊32'40		evening rise	2208 Mar 13 11:35	1°♊15'47	
asc. node	2207 Mar 31 14:52	19°♊29'06		asc. node	2208 Mar 17 11:54	8°♊57'54	
	2207 Apr 06 02:06	0°♊		evening max el	2208 Mar 29 19:51	27°♊38'00	18°45'15
evening max el	2207 Apr 16 20:12	15°♊25'28	19°34'14		2208 Apr 01 19:11	0°♊	
retrograde	2207 Apr 26 09:58	20°♊03'04		retrograde	2208 Apr 06 21:58	1°♊34'30	
evening set	2207 Apr 28 10:47	19°♊51'28		evening set	2208 Apr 09 04:08	1°♊17'16	
inferior conj	2207 May 07 02:10	15°♊47'15	0°29'12		2208 Apr 12 08:58	30°♊♊	
minimum elong	2207 May 07 03:25	15°♊45'16	0°28'44	inferior conj	2208 Apr 16 23:53	26°♊55'59	2°03'48
desc. node	2207 May 08 18:40	14°♊42'39		minimum elong	2208 Apr 17 03:45	26°♊48'48	2°02'40
min. Earth dist.	2207 May 09 14:26	14°♊11'41	0.55815 AU	min. Earth dist.	2208 Apr 20 07:20	24°♊30'08	0.57434 AU
morning rise	2207 May 15 17:20	11°♊08'39		desc. node	2208 Apr 24 15:42	21°♊53'25	
direct	2207 May 20 04:54	10°♊23'27		morning rise	2208 Apr 25 00:14	21°♊43'40	
morning max el	2207 Jun 03 05:59	17°♊27'43	24°45'21	direct	2208 Apr 30 13:16	20°♊28'20	
	2207 Jun 13 12:34	0°♊		morning max el	2208 May 14 21:31	27°♊59'57	26°15'38
asc. node	2207 Jun 27 14:07	25°♊10'38			2208 May 16 20:39	0°♊	
morning set	2207 Jun 29 00:24	28°♊10'01		morning set	2208 Jun 05 23:11	0°♊	
	2207 Jun 29 21:08	0°♊		asc. node	2208 Jun 12 11:28	13°♊02'54	
					2208 Jun 13 11:10	15°♊08'29	
superior conj	2207 Jul 05 23:55	13°♊16'07	1°18'22	superior conj	2208 Jun 19 11:16	28°♊13'21	0°59'38
minimum elong	2207 Jul 05 21:31	13°♊03'03	1°18'01	minimum elong	2208 Jun 19 09:04	28°♊01'13	0°59'13
max. Earth dist.	2207 Jul 07 12:11	16°♊32'59	1.32867 AU	max. Earth dist.	2208 Jun 19 22:33	29°♊15'20	1.32325 AU
evening rise	2207 Jul 13 05:22	28°♊36'35			2208 Jun 20 06:41	0°♊	
	2207 Jul 13 21:46	0°♊		evening rise	2208 Jun 26 10:19	13°♊14'48	
	2207 Jul 30 21:19	0°♊			2208 Jul 05 00:02	0°♊	
desc. node	2207 Aug 04 17:57	6°♊56'21		desc. node	2208 Jul 21 14:59	25°♊10'18	
evening max el	2207 Aug 15 00:56	18°♊52'58	27°25'00		2208 Jul 25 23:29	0°♊	
retrograde	2207 Aug 28 18:45	26°♊10'13		evening max el	2208 Jul 27 06:24	1°♊15'41	26°59'54
evening set	2207 Sep 04 23:40	23°♊36'54		retrograde	2208 Aug 10 04:14	8°♊29'06	
min. Earth dist.	2207 Sep 08 14:09	20°♊36'01	0.62945 AU	evening set	2208 Aug 17 04:20	6°♊18'52	
inferior conj	2207 Sep 11 09:02	17°♊53'12	-3°40'19	min. Earth dist.	2208 Aug 20 20:40	3°♊38'12	0.61004 AU
minimum elong	2207 Sep 11 14:23	17°♊40'09	3°38'48	inferior conj	2208 Aug 24 01:07	0°♊54'26	-4°26'44
morning rise	2207 Sep 18 06:31	12°♊42'27		minimum elong	2208 Aug 24 06:05	0°♊43'43	4°25'47
direct	2207 Sep 20 17:29	12°♊14'23			2208 Aug 25 02:41	30°♊♊	
asc. node	2207 Sep 23 13:18	12°♊52'25		morning rise	2208 Aug 31 09:36	26°♊04'24	
morning max el	2207 Sep 27 09:45	15°♊40'37	17°51'25	direct	2208 Sep 02 19:28	25°♊41'07	
	2207 Oct 07 10:15	0°♊		asc. node	2208 Sep 09 10:22	28°♊43'51	
morning set	2207 Oct 13 16:05	10°♊54'48		morning max el	2208 Sep 09 23:22	29°♊14'21	18°01'23
	2207 Oct 24 16:31	0°♊			2208 Sep 10 17:19	0°♊	

morning set	2208 Sep 25 19:20	24° \mathbb{M} 14'30		superior conj	2209 Sep 18 08:47	25° \mathbb{M} 11'27	1°34'38
	2208 Sep 28 22:05	0° \mathbb{L}		minimum elong	2209 Sep 18 11:46	25° \mathbb{M} 25'20	1°34'24
					2209 Sep 20 23:29	0° \mathbb{L}	
superior conj	2208 Oct 05 20:40	12° \mathbb{L} 32'51	1°14'42	max. Earth dist.	2209 Sep 25 17:34	8° \mathbb{L} 27'38	1.40053 AU
minimum elong	2208 Oct 06 01:04	12° \mathbb{L} 52'15	1°14'12	evening rise	2209 Sep 29 23:35	15° \mathbb{L} 42'36	
max. Earth dist.	2208 Oct 13 11:07	25° \mathbb{L} 35'05	1.42021 AU	desc. node	2209 Oct 04 11:18	23° \mathbb{L} 03'35	
	2208 Oct 16 03:24	0° \mathbb{M}			2209 Oct 08 21:09	0° \mathbb{M}	
desc. node	2208 Oct 17 14:16	2° \mathbb{M} 21'26			2209 Oct 30 13:24	0° \mathbb{X}	
evening rise	2208 Oct 19 07:20	5° \mathbb{M} 06'16		evening max el	2209 Nov 03 20:39	4° \mathbb{X} 41'05	23°46'12
	2208 Nov 04 18:27	0° \mathbb{X}		retrograde	2209 Nov 14 15:31	11° \mathbb{X} 02'34	
evening max el	2208 Nov 21 06:33	21° \mathbb{X} 05'51	22°26'18	evening set	2209 Nov 19 18:50	8° \mathbb{X} 54'21	
retrograde	2208 Nov 30 22:49	26° \mathbb{X} 50'59		asc. node	2209 Nov 23 06:40	5° \mathbb{X} 04'33	
evening set	2208 Dec 05 12:51	24° \mathbb{X} 59'50		min. Earth dist.	2209 Nov 24 15:16	3° \mathbb{X} 15'56	0.67750 AU
asc. node	2208 Dec 06 09:37	24° \mathbb{X} 13'19		inferior conj	2209 Nov 25 04:35	2° \mathbb{X} 30'33	0°39'10
inferior conj	2208 Dec 10 21:22	18° \mathbb{X} 39'22	1°29'21	minimum elong	2209 Nov 25 03:40	2° \mathbb{X} 33'41	0°38'47
minimum elong	2208 Dec 10 19:28	18° \mathbb{X} 45'55	1°28'38		2209 Nov 27 01:55	30° \mathbb{R} \mathbb{M}	
min. Earth dist.	2208 Dec 10 18:42	18° \mathbb{X} 48'35	0.67846 AU	morning rise	2209 Nov 30 12:29	26° \mathbb{M} 24'30	
morning rise	2208 Dec 16 01:57	12° \mathbb{X} 28'51		direct	2209 Dec 04 13:33	24° \mathbb{M} 52'20	
direct	2208 Dec 20 17:03	10° \mathbb{X} 33'57		morning max el	2209 Dec 12 18:55	29° \mathbb{M} 37'40	20°49'46
morning max el	2208 Dec 30 00:56	16° \mathbb{X} 03'28	22°09'52		2209 Dec 13 03:41	0° \mathbb{X}	
	2209 Jan 10 08:52	0° \mathbb{Z}		desc. node	2209 Dec 31 10:33	24° \mathbb{X} 33'16	
desc. node	2209 Jan 13 13:31	4° \mathbb{Z} 28'19			2210 Jan 04 01:36	0° \mathbb{Z}	
	2209 Jan 30 10:33	0° \mathbb{A}		morning set	2210 Jan 11 09:06	11° \mathbb{Z} 13'56	
morning set	2209 Feb 01 04:17	2° \mathbb{A} 47'39		max. Earth dist.	2210 Jan 19 22:12	24° \mathbb{Z} 49'13	1.42900 AU
max. Earth dist.	2209 Feb 06 17:32	11° \mathbb{A} 56'37	1.41001 AU		2210 Jan 23 02:07	0° \mathbb{A}	
superior conj	2209 Feb 14 12:18	25° \mathbb{A} 24'15	-2°02'12	superior conj	2210 Jan 26 18:06	6° \mathbb{A} 07'16	-2°04'16
minimum elong	2209 Feb 14 14:47	25° \mathbb{A} 35'18	2°02'06	minimum elong	2210 Jan 26 16:14	5° \mathbb{A} 59'24	2°04'13
	2209 Feb 17 01:43	0° \mathbb{H}		evening rise	2210 Feb 07 14:50	26° \mathbb{A} 46'18	
evening rise	2209 Feb 24 20:38	14° \mathbb{H} 23'07			2210 Feb 09 10:22	0° \mathbb{H}	
asc. node	2209 Mar 04 08:57	28° \mathbb{H} 02'58		asc. node	2210 Feb 19 06:00	16° \mathbb{H} 36'40	
	2209 Mar 05 12:39	0° \mathbb{Y}		evening max el	2210 Feb 24 14:20	23° \mathbb{H} 25'12	18°07'16
evening max el	2209 Mar 13 02:59	10° \mathbb{Y} 20'54	18°16'23	retrograde	2210 Mar 03 04:03	26° \mathbb{H} 48'59	
retrograde	2209 Mar 20 05:06	13° \mathbb{Y} 53'10		evening set	2210 Mar 05 21:37	26° \mathbb{H} 13'28	
evening set	2209 Mar 22 17:19	13° \mathbb{Y} 27'31		inferior conj	2210 Mar 12 08:48	21° \mathbb{H} 10'31	3°35'31
inferior conj	2209 Mar 29 18:56	8° \mathbb{Y} 45'19	3°04'52	minimum elong	2210 Mar 12 10:21	21° \mathbb{H} 06'40	3°35'23
minimum elong	2209 Mar 29 22:20	8° \mathbb{Y} 37'58	3°04'13	min. Earth dist.	2210 Mar 15 09:58	18° \mathbb{H} 09'28	0.61624 AU
min. Earth dist.	2209 Apr 02 04:51	5° \mathbb{Y} 49'31	0.59484 AU	morning rise	2210 Mar 18 21:32	15° \mathbb{H} 14'45	
morning rise	2209 Apr 06 00:54	3° \mathbb{Y} 06'33		direct	2210 Mar 25 18:02	12° \mathbb{H} 50'27	
desc. node	2209 Apr 11 12:43	1° \mathbb{Y} 17'08		desc. node	2210 Mar 29 09:46	13° \mathbb{H} 27'56	
direct	2209 Apr 12 10:19	1° \mathbb{Y} 14'57		morning max el	2210 Apr 08 21:49	20° \mathbb{H} 45'36	27°48'45
morning max el	2209 Apr 26 18:26	9° \mathbb{Y} 01'55	27°19'54		2210 Apr 16 21:29	0° \mathbb{Y}	
	2209 May 12 18:52	0° \mathbb{B}			2210 May 05 18:01	0° \mathbb{B}	
morning set	2209 May 27 20:05	27° \mathbb{B} 47'09		morning set	2210 May 12 00:16	12° \mathbb{B} 15'28	
	2209 May 28 21:25	0° \mathbb{I}		max. Earth dist.	2210 May 17 21:17	24° \mathbb{B} 40'35	1.32397 AU
asc. node	2209 May 31 08:14	5° \mathbb{I} 14'38		asc. node	2210 May 18 05:17	25° \mathbb{B} 23'57	
superior conj	2209 Jun 03 23:03	13° \mathbb{I} 09'19	0°37'25	superior conj	2210 May 19 09:27	27° \mathbb{B} 57'22	0°12'23
minimum elong	2209 Jun 03 21:28	13° \mathbb{I} 00'38	0°37'05	minimum elong	2210 May 19 08:53	27° \mathbb{B} 54'14	0°12'15
max. Earth dist.	2209 Jun 03 10:55	12° \mathbb{I} 02'38	1.32166 AU	behind sun begin	2210 May 19 05:37	27° \mathbb{B} 36'23	
evening rise	2209 Jun 10 19:35	28° \mathbb{I} 04'03		behind sun end	2210 May 19 12:09	28° \mathbb{B} 12'07	
	2209 Jun 11 17:39	0° \mathbb{E}			2210 May 20 07:54	0° \mathbb{I}	
	2209 Jun 28 13:35	0° \mathbb{O}		evening rise	2210 May 26 07:02	12° \mathbb{I} 56'16	
desc. node	2209 Jul 08 12:00	12° \mathbb{O} 10'55			2210 Jun 03 21:53	0° \mathbb{E}	
evening max el	2209 Jul 09 05:01	12° \mathbb{O} 52'13	26°02'18	evening max el	2210 Jun 20 20:44	23° \mathbb{E} 44'04	24°38'59
retrograde	2209 Jul 23 04:52	20° \mathbb{O} 02'06		desc. node	2210 Jun 25 09:03	27° \mathbb{E} 27'46	
evening set	2209 Jul 29 11:59	18° \mathbb{O} 26'20			2210 Jun 30 06:30	0° \mathbb{O}	
min. Earth dist.	2209 Aug 02 17:33	15° \mathbb{O} 49'40	0.58943 AU	retrograde	2210 Jul 04 18:56	0° \mathbb{O} 47'04	
inferior conj	2209 Aug 06 00:27	13° \mathbb{O} 23'00	-4°55'37		2210 Jul 09 08:16	30° \mathbb{R} \mathbb{E}	
minimum elong	2209 Aug 06 02:45	13° \mathbb{O} 18'41	4°55'28	evening set	2210 Jul 09 19:50	29° \mathbb{E} 49'47	
morning rise	2209 Aug 13 19:42	8° \mathbb{O} 55'57		min. Earth dist.	2210 Jul 15 07:51	26° \mathbb{E} 58'44	0.57014 AU
direct	2209 Aug 16 07:12	8° \mathbb{O} 35'22		inferior conj	2210 Jul 18 03:58	25° \mathbb{E} 08'34	-4°54'11
morning max el	2209 Aug 24 07:21	12° \mathbb{O} 25'17	18°31'25	minimum elong	2210 Jul 18 01:12	25° \mathbb{E} 13'06	4°54'00
asc. node	2209 Aug 27 07:26	15° \mathbb{O} 46'04		morning rise	2210 Jul 26 09:15	21° \mathbb{E} 03'04	
	2209 Sep 05 03:43	0° \mathbb{M}		direct	2210 Jul 29 00:17	20° \mathbb{E} 43'55	
morning set	2209 Sep 09 11:04	8° \mathbb{M} 10'43		morning max el	2210 Aug 07 06:36	25° \mathbb{E} 02'55	19°22'40
					2210 Aug 11 14:46	0° \mathbb{O}	

asc. node	2210 Aug 14 04:30	3°♎43'07		inferior conj	2211 Jun 28 11:58	6°♊09'23	-4°08'35
morning set	2210 Aug 24 11:25	22°♎31'54		minimum elong	2211 Jun 28 04:33	6°♊20'11	4°06'59
	2210 Aug 28 04:49	0°♎		morning rise	2211 Jul 07 02:14	2°♊16'28	
				direct	2211 Jul 09 22:21	1°♊57'19	
superior conj	2210 Sep 01 13:49	8°♎40'33	1°44'07	morning max el	2211 Jul 20 18:46	6°♊58'56	20°35'04
minimum elong	2210 Sep 01 14:55	8°♎45'55	1°44'06	asc. node	2211 Aug 01 01:33	22°♊22'20	
max. Earth dist.	2210 Sep 07 21:22	20°♎39'17	1.37995 AU		2211 Aug 05 03:49	0°♎	
evening rise	2210 Sep 11 15:42	27°♎25'30		morning set	2211 Aug 08 17:33	7°♎10'23	
	2210 Sep 13 03:05	0°♎					
desc. node	2210 Sep 21 08:21	13°♏36'55		superior conj	2211 Aug 16 06:57	22°♎45'48	1°45'03
	2210 Oct 02 08:23	0°♏		minimum elong	2211 Aug 16 06:24	22°♎43'01	1°45'02
evening max el	2210 Oct 17 08:46	18°♏19'40	25°03'26		2211 Aug 19 21:33	0°♏	
retrograde	2210 Oct 29 04:13	25°♏10'26		max. Earth dist.	2211 Aug 21 04:09	2°♏29'48	1.36101 AU
evening set	2210 Nov 03 21:38	22°♏46'16		evening rise	2211 Aug 25 04:37	10°♏07'42	
min. Earth dist.	2210 Nov 08 09:54	17°♏42'05	0.67315 AU		2211 Sep 05 17:20	0°♏	
inferior conj	2210 Nov 09 09:54	16°♏23'23	-0°15'20	desc. node	2211 Sep 08 05:23	3°♏56'11	
minimum elong	2210 Nov 09 10:17	16°♏22'07	0°15'11		2211 Sep 27 21:29	0°♏	
transit middle	2210 Nov 09 10:17	16°♏22'07	0°15'11	evening max el	2211 Sep 29 20:46	1°♏59'29	26°10'37
transit begin	2210 Nov 09 09:19	16°♏25'18		retrograde	2211 Oct 12 12:04	9°♏08'43	
transit end	2210 Nov 09 11:16	16°♏18'56		evening set	2211 Oct 18 19:22	6°♏32'04	
asc. node	2210 Nov 10 03:43	15°♏25'19		min. Earth dist.	2211 Oct 23 00:15	2°♏03'32	0.66542 AU
morning rise	2210 Nov 14 23:08	10°♏24'03		inferior conj	2211 Oct 24 11:26	0°♏14'37	-1°12'52
direct	2210 Nov 18 11:46	9°♏12'18		minimum elong	2211 Oct 24 13:22	0°♏08'38	1°12'04
morning max el	2210 Nov 25 20:45	13°♏23'09	19°42'04		2211 Oct 24 16:09	30°♏	
	2210 Dec 08 11:17	0°♏		asc. node	2211 Oct 28 00:45	26°♏12'17	
greatest brilliancy	2210 Dec 09 02:58	0°♏58'13	-0.7m	morning rise	2211 Oct 30 07:49	24°♏24'40	
desc. node	2210 Dec 18 07:35	14°♏55'28		direct	2211 Nov 02 10:11	23°♏29'50	
morning set	2210 Dec 21 05:30	19°♏24'56		morning max el	2211 Nov 09 05:38	27°♏16'28	18°49'26
	2210 Dec 28 00:52	0°♏			2211 Nov 11 16:17	0°♏	
max. Earth dist.	2211 Jan 02 09:55	8°♏28'29	1.44306 AU	morning set	2211 Nov 30 18:21	28°♏31'17	
					2211 Dec 01 16:52	0°♏	
superior conj	2211 Jan 06 21:34	15°♏39'01	-1°48'58	desc. node	2211 Dec 05 04:37	5°♏29'34	
minimum elong	2211 Jan 06 14:18	15°♏09'44	1°48'26	max. Earth dist.	2211 Dec 16 02:36	22°♏38'02	1.45062 AU
	2211 Jan 15 15:34	0°♏					
evening rise	2211 Jan 20 13:50	8°♏17'05		superior conj	2211 Dec 17 03:53	24°♏17'25	-1°14'46
	2211 Feb 02 19:25	0°♏		minimum elong	2211 Dec 16 19:21	23°♏43'50	1°13'48
asc. node	2211 Feb 06 03:02	4°♏29'19			2211 Dec 20 18:51	0°♏	
evening max el	2211 Feb 08 02:56	6°♏43'15	18°17'15	evening rise	2212 Jan 01 14:00	18°♏49'51	
retrograde	2211 Feb 14 14:04	10°♏11'51			2212 Jan 08 12:01	0°♏	
evening set	2211 Feb 17 12:51	9°♏25'30		evening max el	2212 Jan 22 14:10	20°♏08'37	18°45'25
inferior conj	2211 Feb 23 13:22	4°♏03'15	3°42'41	asc. node	2212 Jan 24 00:04	21°♏28'23	
minimum elong	2211 Feb 23 13:02	4°♏04'10	3°42'40	retrograde	2212 Jan 29 07:00	23°♏53'21	
min. Earth dist.	2211 Feb 26 00:24	1°♏18'51	0.63593 AU	evening set	2212 Feb 01 11:40	22°♏55'08	
	2211 Feb 27 06:34	30°♏		inferior conj	2212 Feb 07 04:44	17°♏15'17	3°32'29
morning rise	2211 Mar 01 12:23	27°♏57'58		minimum elong	2212 Feb 07 03:02	17°♏20'29	3°32'17
direct	2211 Mar 08 10:30	25°♏12'29		min. Earth dist.	2212 Feb 09 00:13	15°♏02'31	0.65233 AU
desc. node	2211 Mar 16 06:47	28°♏04'51		morning rise	2212 Feb 12 17:58	11°♏05'05	
	2211 Mar 18 19:46	0°♏		direct	2212 Feb 19 10:03	8°♏13'07	
morning max el	2211 Mar 22 05:46	3°♏08'15	27°40'15	desc. node	2212 Mar 02 03:48	14°♏31'56	
	2211 Apr 11 07:06	0°♏		morning max el	2212 Mar 03 15:23	15°♏58'26	26°58'27
morning set	2211 Apr 25 21:39	26°♏20'12			2212 Mar 15 05:27	0°♏	
	2211 Apr 27 17:19	0°♏			2212 Apr 03 02:03	0°♏	
max. Earth dist.	2211 May 01 01:30	6°♏55'29	1.33042 AU	morning set	2212 Apr 08 09:05	9°♏50'57	
				max. Earth dist.	2212 Apr 12 19:50	18°♏37'14	1.34134 AU
superior conj	2211 May 03 16:45	12°♏31'50	-0°14'42				
minimum elong	2211 May 03 17:28	12°♏35'43	0°14'32	superior conj	2212 Apr 16 18:49	26°♏45'42	-0°42'46
behind sun begin	2211 May 03 15:16	12°♏23'57		minimum elong	2212 Apr 16 20:59	26°♏57'03	0°42'19
behind sun end	2211 May 03 19:40	12°♏47'29			2212 Apr 18 07:51	0°♏	
asc. node	2211 May 05 02:20	15°♏32'30		asc. node	2212 Apr 20 23:22	5°♏35'40	
evening rise	2211 May 10 18:48	27°♏45'09		evening rise	2212 Apr 24 04:58	12°♏24'04	
	2211 May 11 20:28	0°♏			2212 May 03 07:27	0°♏	
	2211 May 29 13:34	0°♏		evening max el	2212 May 14 05:54	14°♏51'42	21°30'38
evening max el	2211 Jun 02 10:29	4°♏13'18	23°03'24	retrograde	2212 May 26 11:27	20°♏51'11	
desc. node	2211 Jun 12 06:03	10°♏25'10		evening set	2212 May 28 21:26	20°♏37'56	
retrograde	2211 Jun 15 20:38	10°♏54'51		desc. node	2212 May 29 03:02	20°♏35'18	
evening set	2211 Jun 19 09:21	10°♏27'31		inferior conj	2212 Jun 07 07:12	16°♏37'30	-2°35'58
min. Earth dist.	2211 Jun 26 19:45	7°♏07'51	0.55566 AU	minimum elong	2212 Jun 07 00:17	16°♏47'12	2°33'41

min. Earth dist.	2212 Jun 07 07:38	16° Π 36'53	0.54913 AU	inferior conj	2213 May 18 03:02	26° \mathcal{B} 59'50	-0°37'15
morning rise	2212 Jun 16 03:50	12° Π 40'59		minimum elong	2213 May 18 01:18	27° \mathcal{B} 02'24	0°36'36
direct	2212 Jun 19 09:14	12° Π 18'18		min. Earth dist.	2213 May 19 20:30	25° \mathcal{B} 58'26	0.55219 AU
morning max el	2212 Jul 01 19:38	18° Π 10'55	22°05'51	morning rise	2213 May 26 23:06	22° \mathcal{B} 40'54	
	2212 Jul 11 07:06	0° \mathcal{E}		direct	2213 May 30 21:30	22° \mathcal{B} 07'17	
asc. node	2212 Jul 17 22:36	11° \mathcal{E} 33'40		morning max el	2213 Jun 13 12:15	28° \mathcal{B} 48'00	23°47'22
morning set	2212 Jul 23 03:19	22° \mathcal{E} 00'23			2213 Jun 14 17:39	0° Π	
	2212 Jul 26 22:07	0° \mathcal{O}			2213 Jul 04 06:05	0° \mathcal{E}	
				asc. node	2213 Jul 04 19:38	1° \mathcal{E} 08'17	
superior conj	2212 Jul 30 08:28	7° \mathcal{O} 16'27	1°39'00	morning set	2213 Jul 07 14:53	6° \mathcal{E} 55'55	
minimum elong	2212 Jul 30 06:47	7° \mathcal{O} 07'32	1°38'53				
max. Earth dist.	2212 Aug 02 19:16	14° \mathcal{O} 26'41	1.34533 AU	superior conj	2213 Jul 14 15:30	22° \mathcal{E} 03'01	1°27'17
evening rise	2212 Aug 07 09:43	23° \mathcal{O} 37'12		minimum elong	2213 Jul 14 13:13	21° \mathcal{E} 50'39	1°27'01
	2212 Aug 10 18:33	0° \mathcal{N}		max. Earth dist.	2213 Jul 16 19:44	26° \mathcal{E} 43'00	1.33358 AU
desc. node	2212 Aug 25 02:24	23° \mathcal{N} 54'50			2213 Jul 18 08:59	0° \mathcal{O}	
	2212 Aug 29 07:50	0° \mathcal{A}		evening rise	2213 Jul 22 02:41	7° \mathcal{O} 41'10	
evening max el	2212 Sep 11 09:13	15° \mathcal{A} 34'01	27°00'02		2213 Aug 03 06:19	0° \mathcal{N}	
retrograde	2212 Sep 24 14:24	22° \mathcal{A} 50'55		desc. node	2213 Aug 11 23:24	13° \mathcal{N} 23'28	
evening set	2212 Oct 01 09:49	20° \mathcal{A} 07'52		evening max el	2213 Aug 24 20:42	28° \mathcal{N} 50'26	27°24'30
min. Earth dist.	2212 Oct 05 07:55	16° \mathcal{A} 15'43	0.65421 AU		2213 Aug 26 02:55	0° \mathcal{A}	
inferior conj	2212 Oct 07 07:09	14° \mathcal{A} 00'31	-2°11'40	retrograde	2213 Sep 07 10:38	6° \mathcal{A} 08'02	
minimum elong	2212 Oct 07 10:41	13° \mathcal{A} 50'22	2°10'18	evening set	2213 Sep 14 14:10	3° \mathcal{A} 27'42	
morning rise	2212 Oct 13 12:18	8° \mathcal{A} 23'02			2213 Sep 18 10:34	30° \mathcal{R} \mathcal{N}	
asc. node	2212 Oct 13 21:46	8° \mathcal{A} 12'03		min. Earth dist.	2213 Sep 18 06:37	0° \mathcal{A} 10'00	0.63950 AU
direct	2212 Oct 16 06:45	7° \mathcal{A} 41'17		inferior conj	2213 Sep 20 18:31	27° \mathcal{N} 34'37	-3°09'13
morning max el	2212 Oct 22 19:29	11° \mathcal{A} 13'12	18°13'14	minimum elong	2213 Sep 20 23:24	27° \mathcal{N} 21'53	3°07'36
	2212 Nov 04 22:44	0° \mathcal{M}		morning rise	2213 Sep 27 09:46	22° \mathcal{N} 13'09	
morning set	2212 Nov 10 12:04	9° \mathcal{M} 05'29		direct	2213 Sep 29 22:49	21° \mathcal{N} 40'55	
desc. node	2212 Nov 21 01:40	26° \mathcal{M} 11'55		asc. node	2213 Sep 30 18:49	21° \mathcal{N} 44'26	
	2212 Nov 23 10:59	0° \mathcal{X}		morning max el	2213 Oct 06 11:37	25° \mathcal{N} 06'32	17°54'14
					2213 Oct 10 12:42	0° \mathcal{A}	
superior conj	2212 Nov 25 06:38	2° \mathcal{X} 52'53	-0°28'01	morning set	2213 Oct 23 08:53	20° \mathcal{A} 58'10	
minimum elong	2212 Nov 25 03:02	2° \mathcal{X} 38'38	0°27'32		2213 Oct 28 15:54	0° \mathcal{M}	
max. Earth dist.	2212 Nov 27 21:54	7° \mathcal{X} 02'16	1.45083 AU				
evening rise	2212 Dec 11 15:34	28° \mathcal{X} 29'55		superior conj	2213 Nov 05 02:12	12° \mathcal{M} 20'40	0°19'18
	2212 Dec 12 14:43	0° \mathcal{Z}		minimum elong	2213 Nov 05 04:19	12° \mathcal{M} 29'16	0°19'00
greatest brilliancy	2212 Dec 23 16:32	17° \mathcal{Z} 06'52	-0.7m	desc. node	2213 Nov 07 22:42	16° \mathcal{M} 58'17	
	2213 Jan 01 18:15	0° \mathcal{A}		max. Earth dist.	2213 Nov 10 16:15	21° \mathcal{M} 20'45	1.44369 AU
evening max el	2213 Jan 04 21:56	3° \mathcal{A} 38'00	19°30'23		2213 Nov 16 04:01	0° \mathcal{X}	
asc. node	2213 Jan 09 21:04	7° \mathcal{A} 20'19		evening rise	2213 Nov 21 02:00	7° \mathcal{X} 37'06	
retrograde	2213 Jan 12 03:41	7° \mathcal{A} 48'36			2213 Dec 05 22:41	0° \mathcal{Z}	
evening set	2213 Jan 15 15:29	6° \mathcal{A} 37'14		evening max el	2213 Dec 19 00:36	17° \mathcal{Z} 08'26	20°30'12
inferior conj	2213 Jan 21 03:41	0° \mathcal{A} 42'00	3°09'26	retrograde	2213 Dec 27 01:39	21° \mathcal{Z} 52'58	
minimum elong	2213 Jan 21 01:15	0° \mathcal{A} 49'58	3°08'55	asc. node	2213 Dec 27 18:05	21° \mathcal{Z} 50'21	
	2213 Jan 21 16:32	30° \mathcal{R} \mathcal{Z}		evening set	2213 Dec 30 22:11	20° \mathcal{Z} 27'06	
min. Earth dist.	2213 Jan 22 08:21	29° \mathcal{Z} 08'27	0.66475 AU	inferior conj	2214 Jan 05 07:37	14° \mathcal{Z} 19'12	2°36'32
morning rise	2213 Jan 26 10:47	24° \mathcal{Z} 29'24		minimum elong	2214 Jan 05 05:01	14° \mathcal{Z} 28'04	2°35'47
direct	2213 Feb 01 15:32	21° \mathcal{Z} 44'14		min. Earth dist.	2214 Jan 05 23:01	13° \mathcal{Z} 26'50	0.67301 AU
morning max el	2213 Feb 14 00:39	29° \mathcal{Z} 05'26	25°51'11	morning rise	2214 Jan 10 11:40	8° \mathcal{Z} 05'59	
	2213 Feb 14 21:52	0° \mathcal{A}		direct	2214 Jan 16 02:14	5° \mathcal{Z} 36'57	
desc. node	2213 Feb 17 00:51	2° \mathcal{A} 18'51		morning max el	2214 Jan 27 09:10	12° \mathcal{Z} 20'57	24°28'16
	2213 Mar 09 01:19	0° \mathcal{X}		desc. node	2214 Feb 03 21:54	21° \mathcal{Z} 02'24	
morning set	2213 Mar 22 06:24	22° \mathcal{X} 35'39			2214 Feb 10 14:00	0° \mathcal{A}	
max. Earth dist.	2213 Mar 26 02:35	29° \mathcal{X} 48'47	1.35690 AU		2214 Mar 01 20:08	0° \mathcal{X}	
	2213 Mar 26 04:55	0° \mathcal{Y}		morning set	2214 Mar 04 08:14	4° \mathcal{X} 19'47	
				max. Earth dist.	2214 Mar 08 00:20	10° \mathcal{X} 52'26	1.37633 AU
superior conj	2213 Mar 31 13:08	10° \mathcal{Y} 31'50	-1°10'22				
minimum elong	2213 Mar 31 16:40	10° \mathcal{Y} 49'36	1°09'47	superior conj	2214 Mar 14 20:31	23° \mathcal{X} 41'47	-1°35'26
asc. node	2213 Apr 07 20:24	25° \mathcal{Y} 29'18		minimum elong	2214 Mar 15 00:50	24° \mathcal{X} 02'38	1°34'55
evening rise	2213 Apr 08 11:34	26° \mathcal{Y} 46'52			2214 Mar 18 01:58	0° \mathcal{Y}	
	2213 Apr 10 01:38	0° \mathcal{B}		evening rise	2214 Mar 23 12:16	10° \mathcal{Y} 47'12	
evening max el	2213 Apr 26 12:08	26° \mathcal{B} 02'21	20°11'23	asc. node	2214 Mar 25 17:26	15° \mathcal{Y} 08'58	
	2213 May 02 00:30	0° Π			2214 Apr 03 00:53	0° \mathcal{B}	
retrograde	2213 May 07 01:19	1° Π 09'00		evening max el	2214 Apr 09 05:58	7° \mathcal{B} 53'12	19°10'52
evening set	2213 May 09 01:55	0° Π 58'31		retrograde	2214 Apr 18 03:24	12° \mathcal{B} 11'50	
	2213 May 12 09:50	30° \mathcal{R} \mathcal{B}		evening set	2214 Apr 20 06:06	11° \mathcal{B} 58'16	
desc. node	2213 May 16 00:03	28° \mathcal{B} 13'53		inferior conj	2214 Apr 28 13:10	7° \mathcal{B} 47'10	1°13'14

minimum elong	2214 Apr 28 15:58	7° 8 42'25	1°12'17	min. Earth dist.	2215 Apr 13 06:23	16° 9 31'50	0.58268 AU
min. Earth dist.	2214 May 01 11:34	5° 8 48'37	0.56422 AU	morning rise	2215 Apr 17 12:41	13° 9 48'23	
desc. node	2214 May 02 21:06	4° 8 55'51		desc. node	2215 Apr 19 18:08	12° 9 53'26	
morning rise	2214 May 06 22:50	2° 8 53'56		direct	2215 Apr 23 11:08	12° 9 17'51	
direct	2214 May 11 21:07	1° 8 57'34		morning max el	2215 May 07 20:26	19° 9 57'59	26°46'56
morning max el	2214 May 26 02:43	9° 8 14'47	25°26'18		2215 May 16 10:14	0° 8	
	2214 Jun 10 16:05	0° II			2215 Jun 03 06:35	0° II	
asc. node	2214 Jun 21 16:42	20° II 59'32		morning set	2215 Jun 06 12:50	6° II 41'23	
morning set	2214 Jun 22 02:37	21° II 51'43		asc. node	2215 Jun 08 13:46	11° II 01'14	
	2214 Jun 25 21:24	0° III					
superior conj	2214 Jun 29 01:52	6° III 58'30	1°10'54	superior conj	2215 Jun 13 13:36	21° II 55'36	0°50'35
minimum elong	2214 Jun 28 23:30	6° III 45'30	1°10'31	minimum elong	2215 Jun 13 11:37	21° II 44'38	0°50'12
max. Earth dist.	2214 Jun 30 03:24	9° III 18'04	1.32584 AU	max. Earth dist.	2215 Jun 13 14:56	22° II 02'52	1.32204 AU
evening rise	2214 Jul 06 04:06	22° III 09'28		evening rise	2215 Jun 17 06:00	0° III	
	2214 Jul 10 01:49	0° II			2215 Jun 20 11:08	6° III 52'38	
	2214 Jul 28 05:14	0° III			2215 Jul 02 14:49	0° II	
desc. node	2214 Jul 29 20:25	2° III 09'34		desc. node	2215 Jul 16 17:27	19° II 55'04	
evening max el	2214 Aug 07 04:55	11° III 35'35	27°18'22	evening max el	2215 Jul 20 07:24	23° II 37'57	26°39'07
retrograde	2214 Aug 21 00:22	18° III 51'12		retrograde	2215 Jul 29 17:31	0° III	
evening set	2214 Aug 28 04:47	16° III 25'43			2215 Aug 03 06:38	0° III 50'52	
min. Earth dist.	2214 Aug 31 18:56	13° III 35'29	0.62153 AU	evening set	2215 Aug 07 17:16	30° II 50'52	
inferior conj	2214 Sep 03 18:36	10° III 50'08	-4°01'28	min. Earth dist.	2215 Aug 10 01:05	28° II 53'54	
minimum elong	2214 Sep 04 00:00	10° III 37'36	4°00'08	inferior conj	2215 Aug 13 21:04	26° II 17'16	0.60123 AU
morning rise	2214 Sep 10 20:47	5° III 48'06		minimum elong	2215 Aug 17 03:55	23° II 38'01	-4°41'49
direct	2214 Sep 13 07:00	5° III 22'19		morning rise	2215 Aug 17 08:05	23° II 29'32	4°41'15
asc. node	2214 Sep 17 15:53	6° III 48'33		morning rise	2215 Aug 24 17:06	18° II 57'58	
morning max el	2214 Sep 20 03:06	8° III 50'03	17°53'19	direct	2215 Aug 27 03:13	18° II 36'10	
	2214 Oct 03 23:26	0° III		morning max el	2215 Sep 03 14:47	22° II 15'18	18°11'42
morning set	2214 Oct 06 02:43	3° III 50'48		asc. node	2215 Sep 04 12:58	23° II 11'43	
					2215 Sep 09 15:56	0° III	
superior conj	2214 Oct 17 00:30	23° III 07'35	0°57'52	morning set	2215 Sep 19 11:49	17° III 27'14	
minimum elong	2214 Oct 17 04:58	23° III 26'40	0°57'18		2215 Sep 26 04:31	0° III	
	2214 Oct 21 02:11	0° III		superior conj	2215 Sep 29 00:18	5° III 09'32	1°24'31
max. Earth dist.	2214 Oct 24 06:29	5° III 14'28	1.43018 AU	minimum elong	2215 Sep 29 04:14	5° III 27'16	1°24'08
desc. node	2214 Oct 25 19:43	7° III 45'35		max. Earth dist.	2215 Oct 06 15:11	18° III 29'38	1.41205 AU
evening rise	2214 Oct 31 12:46	16° III 50'02		evening rise	2215 Oct 11 15:44	26° III 49'29	
	2214 Nov 09 03:17	0° III		desc. node	2215 Oct 12 16:45	28° III 30'44	
	2214 Dec 01 06:27	0° III			2215 Oct 13 15:00	0° III	
evening max el	2214 Dec 01 21:34	0° III 39'14	21°41'38		2215 Nov 02 20:46	0° III	
retrograde	2214 Dec 10 22:49	6° III 02'30		evening max el	2215 Nov 14 13:40	14° III 12'35	23°00'11
asc. node	2214 Dec 14 15:08	4° III 48'14		retrograde	2215 Nov 24 17:36	20° III 14'26	
evening set	2214 Dec 15 05:55	4° III 20'51		evening set	2215 Nov 29 13:00	18° III 16'08	
	2214 Dec 19 04:19	30° III 43'42		asc. node	2215 Dec 01 12:11	16° III 18'55	
inferior conj	2214 Dec 20 14:19	28° III 03'42	1°55'48	inferior conj	2215 Dec 04 21:52	11° III 53'32	1°08'43
minimum elong	2214 Dec 20 12:02	28° III 11'35	1°54'59	minimum elong	2215 Dec 04 20:20	11° III 58'48	1°08'06
min. Earth dist.	2214 Dec 20 17:55	27° III 51'13	0.67746 AU	min. Earth dist.	2215 Dec 04 14:39	12° III 18'26	0.67842 AU
morning rise	2214 Dec 25 18:00	21° III 51'30		morning rise	2215 Dec 10 03:35	5° III 44'24	
direct	2214 Dec 30 17:29	19° III 43'42		direct	2215 Dec 14 12:30	3° III 59'19	
morning max el	2215 Jan 09 18:42	25° III 41'30	22°59'40	morning max el	2215 Dec 23 08:38	9° III 09'42	21°34'27
	2215 Jan 13 16:42	0° III			2216 Jan 08 10:55	0° III	
desc. node	2215 Jan 21 18:56	10° III 25'55		desc. node	2216 Jan 08 15:59	0° III 18'23	
	2215 Feb 04 03:04	0° III		morning set	2216 Jan 24 03:09	23° III 50'26	
morning set	2215 Feb 13 08:15	14° III 46'33			2216 Jan 27 23:13	0° III	
max. Earth dist.	2215 Feb 17 19:33	22° III 20'23	1.39777 AU	max. Earth dist.	2216 Jan 30 19:12	4° III 38'29	1.41854 AU
	2215 Feb 22 04:18	0° III					
superior conj	2215 Feb 25 12:40	6° III 04'03	-1°55'01	superior conj	2216 Feb 07 08:31	17° III 26'57	-2°04'55
minimum elong	2215 Feb 25 16:27	6° III 21'24	1°54'45	minimum elong	2216 Feb 07 09:29	17° III 31'06	2°04'54
evening rise	2215 Mar 07 04:04	24° III 16'16		evening rise	2216 Feb 14 09:56	0° III	
	2215 Mar 10 04:26	0° III		asc. node	2216 Feb 18 07:21	7° III 05'57	
asc. node	2215 Mar 12 14:28	4° III 28'34			2216 Feb 27 11:31	23° III 21'28	
evening max el	2215 Mar 23 09:09	20° III 19'25	18°30'30	evening max el	2216 Mar 02 23:09	0° III	
retrograde	2215 Mar 30 23:49	24° III 03'57		retrograde	2216 Mar 05 18:32	3° III 12'50	18°10'08
evening set	2215 Apr 02 08:27	23° III 43'32		evening set	2216 Mar 12 14:03	6° III 39'29	
inferior conj	2215 Apr 09 20:07	19° III 13'35	2°33'48	inferior conj	2216 Mar 15 04:36	6° III 09'51	
minimum elong	2215 Apr 10 00:04	19° III 05'45	2°32'48	minimum elong	2216 Mar 21 23:38	1° III 19'03	3°21'09
					2216 Mar 22 02:19	1° III 12'52	3°20'45

	2216 Mar 23 09:45	30° RH		minimum elong	2217 Mar 04 20:55	13° $\text{H}\text{54}'31$	3°40'57
min. Earth dist.	2216 Mar 25 07:01	28° $\text{H}\text{17}'42$	0.60407 AU	min. Earth dist.	2217 Mar 07 15:46	11° $\text{H}\text{00}'14$	0.62505 AU
morning rise	2216 Mar 28 21:56	25° $\text{H}\text{31}'56$		morning rise	2217 Mar 11 02:40	7° $\text{H}\text{56}'10$	
direct	2216 Apr 04 13:28	23° $\text{H}\text{24}'58$		direct	2217 Mar 18 01:08	5° $\text{H}\text{21}'07$	
desc. node	2216 Apr 05 15:10	23° $\text{H}\text{28}'09$		desc. node	2217 Mar 23 12:11	6° $\text{H}\text{44}'55$	
	2216 Apr 17 11:55	0° Y		morning max el	2217 Apr 01 01:26	13° $\text{H}\text{16}'48$	27°49'29
morning max el	2216 Apr 18 20:04	1° $\text{Y}\text{16}'46$	27°36'36		2217 Apr 14 10:56	0° Y	
	2216 May 09 14:44	0° Z			2217 May 02 01:18	0° Z	
morning set	2216 May 20 19:47	21° $\text{Z}\text{19}'07$		morning set	2217 May 04 21:23	5° $\text{Z}\text{38}'12$	
	2216 May 24 22:06	0° II		max. Earth dist.	2217 May 10 10:54	17° $\text{Z}\text{15}'49$	1.32621 AU
asc. node	2216 May 25 10:49	1° $\text{II}\text{08}'54$					
max. Earth dist.	2216 May 27 02:40	4° $\text{II}\text{46}'10$	1.32214 AU	superior conj	2217 May 12 10:19	21° $\text{Z}\text{31}'43$	0°01'05
				minimum elong	2217 May 12 10:16	21° $\text{Z}\text{31}'27$	0°01'05
superior conj	2216 May 28 01:00	6° $\text{II}\text{48}'36$	0°27'05	behind sun begin	2217 May 12 05:06	21° $\text{Z}\text{03}'24$	
minimum elong	2216 May 27 23:49	6° $\text{II}\text{42}'03$	0°26'50	behind sun end	2217 May 12 15:27	21° $\text{Z}\text{59}'31$	
evening rise	2216 Jun 03 21:32	21° $\text{II}\text{43}'27$		asc. node	2217 May 12 07:52	21° $\text{Z}\text{18}'22$	
	2216 Jun 07 21:53	0° E			2217 May 16 07:47	0° II	
	2216 Jun 26 13:35	0° O		evening rise	2217 May 19 09:21	6° $\text{II}\text{35}'17$	
evening max el	2216 Jul 01 02:52	4° $\text{O}\text{53}'47$	25°29'21		2217 May 31 17:51	0° E	
desc. node	2216 Jul 02 14:28	6° $\text{O}\text{15}'10$		evening max el	2217 Jun 12 17:09	15° $\text{E}\text{33}'23$	23°58'56
retrograde	2216 Jul 15 03:11	12° $\text{O}\text{01}'47$		desc. node	2217 Jun 19 11:28	20° $\text{E}\text{37}'33$	
evening set	2216 Jul 20 22:33	10° $\text{O}\text{42}'54$		retrograde	2217 Jun 26 11:41	22° $\text{E}\text{28}'47$	
min. Earth dist.	2216 Jul 25 14:58	8° $\text{O}\text{01}'51$	0.58078 AU	evening set	2217 Jun 30 21:11	21° $\text{E}\text{46}'06$	
inferior conj	2216 Jul 28 19:01	5° $\text{O}\text{48}'39$	-4°59'41	min. Earth dist.	2217 Jul 07 03:48	18° $\text{E}\text{44}'30$	0.56320 AU
minimum elong	2216 Jul 28 19:22	5° $\text{O}\text{48}'01$	4°59'41	inferior conj	2217 Jul 09 13:57	17° $\text{E}\text{15}'15$	-4°40'54
morning rise	2216 Aug 05 18:35	1° $\text{O}\text{31}'01$		minimum elong	2217 Jul 09 08:51	17° $\text{E}\text{23}'08$	4°40'12
direct	2216 Aug 08 07:14	1° $\text{O}\text{11}'16$		morning rise	2217 Jul 17 23:09	13° $\text{E}\text{16}'26$	
morning max el	2216 Aug 16 19:20	5° $\text{O}\text{12}'30$	18°50'38	direct	2217 Jul 20 16:21	12° $\text{E}\text{57}'20$	
asc. node	2216 Aug 21 10:02	10° $\text{O}\text{38}'29$		morning max el	2217 Jul 30 13:58	17° $\text{E}\text{32}'58$	19°50'58
	2216 Sep 01 12:15	0° P		asc. node	2217 Aug 08 07:04	28° $\text{E}\text{55}'02$	
morning set	2216 Sep 02 07:36	1° $\text{P}\text{34}'37$			2217 Aug 08 22:41	0° O	
				morning set	2217 Aug 17 10:44	16° $\text{O}\text{04}'20$	
superior conj	2216 Sep 10 20:12	18° $\text{P}\text{10}'41$	1°39'49		2217 Aug 24 07:33	0° P	
minimum elong	2216 Sep 10 22:23	18° $\text{P}\text{21}'05$	1°39'42				
	2216 Sep 17 05:47	0° A		superior conj	2217 Aug 25 06:54	1° $\text{P}\text{56}'36$	1°45'28
max. Earth dist.	2216 Sep 17 19:40	1° $\text{A}\text{01}'57$	1.39167 AU	minimum elong	2217 Aug 25 07:15	1° $\text{P}\text{58}'20$	1°45'28
evening rise	2216 Sep 21 18:15	7° $\text{A}\text{54}'17$		max. Earth dist.	2217 Aug 31 00:26	13° $\text{P}\text{03}'19$	1.37158 AU
desc. node	2216 Sep 28 13:47	19° $\text{A}\text{09}'30$		evening rise	2217 Sep 03 19:47	20° $\text{P}\text{03}'51$	
	2216 Oct 05 14:20	0° M			2217 Sep 09 12:42	0° A	
evening max el	2216 Oct 27 02:46	27° $\text{M}\text{49}'39$	24°19'55	desc. node	2217 Sep 15 10:49	9° $\text{A}\text{37}'40$	
	2216 Oct 29 10:46	0° J			2217 Sep 29 15:21	0° M	
retrograde	2216 Nov 07 08:38	4° $\text{J}\text{24}'37$		evening max el	2217 Oct 09 14:52	11° $\text{M}\text{29}'54$	25°33'43
evening set	2216 Nov 12 17:48	2° $\text{J}\text{09}'41$		retrograde	2217 Oct 21 19:09	18° $\text{M}\text{29}'02$	
	2216 Nov 14 21:13	30° RM		evening set	2217 Oct 27 18:39	15° $\text{M}\text{59}'05$	
asc. node	2216 Nov 17 09:14	26° $\text{M}\text{50}'31$		min. Earth dist.	2217 Nov 01 03:47	11° $\text{M}\text{10}'00$	0.67033 AU
min. Earth dist.	2216 Nov 17 10:45	26° $\text{M}\text{45}'27$	0.67604 AU	inferior conj	2217 Nov 02 08:25	9° $\text{M}\text{38}'14$	-0°39'27
inferior conj	2216 Nov 18 04:29	25° $\text{M}\text{45}'50$	0°16'33	minimum elong	2217 Nov 02 09:26	9° $\text{M}\text{34}'58$	0°39'01
minimum elong	2216 Nov 18 04:05	25° $\text{M}\text{47}'12$	0°16'22	asc. node	2217 Nov 04 06:15	7° $\text{M}\text{15}'23$	
morning rise	2216 Nov 23 14:23	19° $\text{M}\text{42}'06$		morning rise	2217 Nov 08 00:27	3° $\text{M}\text{42}'36$	
direct	2216 Nov 27 10:00	18° $\text{M}\text{18}'47$		direct	2217 Nov 11 08:35	2° $\text{M}\text{38}'19$	
morning max el	2216 Dec 05 05:46	22° $\text{M}\text{48}'07$	20°19'12	morning max el	2217 Nov 18 10:45	6° $\text{M}\text{37}'11$	19°17'46
	2216 Dec 11 07:37	0° J			2217 Dec 05 07:38	0° J	
desc. node	2216 Dec 25 13:00	20° $\text{J}\text{31}'19$		morning set	2217 Dec 12 02:04	10° $\text{J}\text{28}'10$	
	2216 Dec 31 18:02	0° Z		desc. node	2217 Dec 12 10:03	10° $\text{J}\text{59}'09$	
morning set	2217 Jan 02 01:14	2° $\text{Z}\text{00}'28$			2217 Dec 24 14:07	0° Z	
max. Earth dist.	2217 Jan 12 02:51	17° $\text{Z}\text{51}'54$	1.43578 AU	max. Earth dist.	2217 Dec 25 17:37	1° $\text{Z}\text{48}'28$	1.44723 AU
superior conj	2217 Jan 18 03:12	27° $\text{Z}\text{39}'34$	-2°00'07	superior conj	2217 Dec 28 20:18	6° $\text{Z}\text{44}'18$	-1°36'35
minimum elong	2217 Jan 17 22:56	27° $\text{Z}\text{21}'56$	1°59'56	minimum elong	2217 Dec 28 11:39	6° $\text{Z}\text{09}'57$	1°35'48
	2217 Jan 19 13:06	0° \approx		evening rise	2218 Jan 12 07:24	0° $\approx\text{13}'37$	
evening rise	2217 Jan 30 17:49	19° $\approx\text{07}'08$			2218 Jan 12 04:07	0° \approx	
	2217 Feb 06 00:20	0° H		asc. node	2218 Jan 31 05:33	29° $\approx\text{10}'12$	
asc. node	2217 Feb 13 08:33	11° $\text{H}\text{38}'49$		evening max el	2218 Jan 31 19:07	29° $\approx\text{45}'39$	18°27'01
evening max el	2217 Feb 17 06:48	16° $\text{H}\text{23}'57$	18°09'14		2218 Feb 01 00:51	0° H	
retrograde	2217 Feb 23 18:07	19° $\text{H}\text{47}'50$		retrograde	2218 Feb 07 07:35	3° $\text{H}\text{19}'40$	
evening set	2217 Feb 26 14:00	19° $\text{H}\text{07}'42$		evening set	2218 Feb 10 08:50	2° $\text{H}\text{28}'14$	
inferior conj	2217 Mar 04 20:13	13° $\text{H}\text{56}'23$	3°40'59		2218 Feb 13 11:40	30° $\text{R}\approx$	

inferior conj	2218 Feb 16 05:48	26° \approx 57'58	3°40'08	asc. node	2219 Jan 18 02:34	15° \approx 42'49	
minimum elong	2218 Feb 16 04:48	27° \approx 00'50	3°40'05	retrograde	2219 Jan 22 02:38	17° \approx 08'04	
min. Earth dist.	2218 Feb 18 10:05	24° \approx 26'00	0.64341 AU	evening set	2219 Jan 25 10:06	16° \approx 04'26	
morning rise	2218 Feb 22 00:12	20° \approx 50'15		inferior conj	2219 Jan 31 00:47	10° \approx 17'30	3°24'05
direct	2218 Feb 28 20:29	18° \approx 00'38		minimum elong	2219 Jan 30 22:42	10° \approx 24'05	3°23'46
desc. node	2218 Mar 10 09:13	22° \approx 12'55		min. Earth dist.	2219 Feb 01 13:45	8° \approx 20'56	0.65806 AU
morning max el	2218 Mar 14 10:29	25° \approx 52'40	27°26'11	morning rise	2219 Feb 05 10:59	4° \approx 05'47	
	2218 Mar 18 05:59	0° \times		direct	2219 Feb 11 22:34	1° \approx 15'29	
	2218 Apr 07 23:36	0° Υ		morning max el	2219 Feb 24 20:26	8° \approx 52'45	26°32'29
morning set	2218 Apr 18 14:56	19° Υ 29'34		desc. node	2219 Feb 25 06:15	9° \approx 17'40	
max. Earth dist.	2218 Apr 23 11:33	29° Υ 18'31	1.33455 AU		2219 Mar 13 10:04	0° \times	
	2218 Apr 23 19:33	0° \mathcal{B}			2219 Mar 31 10:11	0° Υ	
				morning set	2219 Apr 01 21:01	2° Υ 43'02	
superior conj	2218 Apr 26 15:38	5° \mathcal{B} 58'02	-0°26'33	max. Earth dist.	2219 Apr 06 01:16	10° Υ 47'39	1.34743 AU
minimum elong	2218 Apr 26 16:58	6° \mathcal{B} 05'06	0°26'16				
asc. node	2218 Apr 29 04:53	11° \mathcal{B} 24'58		superior conj	2219 Apr 10 14:47	20° Υ 01'13	-0°54'37
evening rise	2218 May 03 20:41	21° \mathcal{B} 20'50		minimum elong	2219 Apr 10 17:33	20° Υ 15'33	0°54'06
	2218 May 08 02:10	0° Π			2219 Apr 15 09:43	0° \mathcal{B}	
evening max el	2218 May 25 08:18	26° Π 02'08	22°22'44	asc. node	2219 Apr 16 01:54	1° \mathcal{B} 24'42	
	2218 May 30 07:57	0° \mathcal{E}		evening rise	2219 Apr 18 05:38	5° \mathcal{B} 54'03	
desc. node	2218 Jun 06 08:29	2° \mathcal{E} 26'02			2219 May 01 14:01	0° Π	
retrograde	2218 Jun 07 08:00	2° \mathcal{E} 28'14		evening max el	2219 May 07 07:50	6° Π 51'58	20°54'46
evening set	2218 Jun 10 07:39	2° \mathcal{E} 08'32		retrograde	2219 May 18 21:20	12° Π 30'01	
	2218 Jun 15 23:04	30° \mathcal{R} Π		evening set	2219 May 21 01:05	12° Π 18'59	
min. Earth dist.	2218 Jun 18 15:05	28° Π 33'16	0.55178 AU	desc. node	2219 May 24 05:28	11° Π 25'56	
inferior conj	2218 Jun 19 15:12	27° Π 59'11	-3°34'20	inferior conj	2219 May 30 08:52	8° Π 21'01	-1°46'45
minimum elong	2218 Jun 19 07:12	28° Π 10'29	3°32'11	minimum elong	2219 May 30 03:51	8° Π 28'08	1°44'58
morning rise	2218 Jun 28 08:46	24° Π 07'35		min. Earth dist.	2219 May 31 03:25	7° Π 54'39	0.54924 AU
direct	2218 Jul 01 08:14	23° Π 47'31		morning rise	2219 Jun 08 06:23	4° Π 16'59	
morning max el	2218 Jul 12 21:09	29° Π 09'39	21°11'50	direct	2219 Jun 11 17:35	3° Π 51'04	
	2218 Jul 13 18:08	0° \mathcal{E}		morning max el	2219 Jun 24 18:07	10° Π 05'18	22°48'24
asc. node	2218 Jul 26 04:07	17° \mathcal{E} 48'49			2219 Jul 09 05:31	0° \mathcal{E}	
	2218 Aug 01 09:17	0° \mathcal{Q}		asc. node	2219 Jul 13 01:10	7° \mathcal{E} 10'37	
morning set	2218 Aug 01 18:39	0° \mathcal{Q} 48'20		morning set	2219 Jul 17 05:22	15° \mathcal{E} 41'00	
					2219 Jul 23 22:26	0° \mathcal{Q}	
superior conj	2218 Aug 09 03:59	16° \mathcal{Q} 13'41	1°43'16	superior conj	2219 Jul 24 08:11	0° \mathcal{Q} 52'00	1°34'40
minimum elong	2218 Aug 09 02:53	16° \mathcal{Q} 08'00	1°43'12	minimum elong	2219 Jul 24 06:10	0° \mathcal{Q} 41'16	1°34'28
max. Earth dist.	2218 Aug 13 10:32	24° \mathcal{Q} 54'23	1.35387 AU	max. Earth dist.	2219 Jul 27 05:25	6° \mathcal{Q} 56'57	1.33981 AU
	2218 Aug 16 00:55	0° \mathcal{P}		evening rise	2219 Aug 01 02:43	16° \mathcal{Q} 52'08	
evening rise	2218 Aug 17 16:06	3° \mathcal{P} 07'03			2219 Aug 08 02:43	0° \mathcal{P}	
desc. node	2218 Sep 02 07:51	29° \mathcal{P} 48'52		desc. node	2219 Aug 20 04:51	19° \mathcal{P} 35'36	
	2218 Sep 02 10:46	0° \mathcal{A}			2219 Aug 27 21:06	0° \mathcal{A}	
evening max el	2218 Sep 22 02:57	25° \mathcal{A} 07'39	26°34'11	evening max el	2219 Sep 04 14:58	8° \mathcal{A} 34'42	27°13'49
	2218 Sep 28 03:17	0° \mathcal{M}		retrograde	2219 Sep 18 00:37	15° \mathcal{A} 53'24	
retrograde	2218 Oct 05 00:36	2° \mathcal{M} 21'11		evening set	2219 Sep 25 00:07	13° \mathcal{A} 09'54	
	2218 Oct 11 03:55	30° \mathcal{R} \mathcal{A}		min. Earth dist.	2219 Sep 28 19:27	9° \mathcal{A} 33'02	0.64832 AU
evening set	2218 Oct 11 13:34	29° \mathcal{A} 40'36		inferior conj	2219 Oct 01 00:09	7° \mathcal{A} 07'57	-2°36'29
min. Earth dist.	2218 Oct 15 15:25	25° \mathcal{A} 27'53	0.66110 AU	minimum elong	2219 Oct 01 04:20	6° \mathcal{A} 56'26	2°34'58
inferior conj	2218 Oct 17 07:42	23° \mathcal{A} 27'03	-1°37'48	morning rise	2219 Oct 07 09:30	1° \mathcal{A} 37'06	
minimum elong	2218 Oct 17 10:19	23° \mathcal{A} 19'11	1°36'44	asc. node	2219 Oct 09 00:21	1° \mathcal{A} 05'41	
asc. node	2218 Oct 22 03:17	18° \mathcal{A} 28'22		direct	2219 Oct 10 01:14	0° \mathcal{A} 59'58	
morning rise	2218 Oct 23 07:39	17° \mathcal{A} 42'19		morning max el	2219 Oct 16 13:19	4° \mathcal{A} 28'24	18°03'02
direct	2218 Oct 26 06:22	16° \mathcal{A} 53'32			2219 Nov 02 13:27	0° \mathcal{M}	
morning max el	2218 Nov 01 22:06	20° \mathcal{A} 32'35	18°32'04	morning set	2219 Nov 03 08:29	1° \mathcal{M} 19'33	
	2218 Nov 09 06:31	0° \mathcal{M}		desc. node	2219 Nov 16 04:09	22° \mathcal{M} 21'18	
morning set	2218 Nov 22 02:42	20° \mathcal{M} 10'55					
	2218 Nov 28 06:35	0° \mathcal{X}		superior conj	2219 Nov 17 06:11	24° \mathcal{M} 05'32	-0°07'20
desc. node	2218 Nov 29 07:07	1° \mathcal{X} 37'12		minimum elong	2219 Nov 17 05:17	24° \mathcal{M} 01'54	0°07'13
				behind sun begin	2219 Nov 16 19:41	23° \mathcal{M} 23'31	
superior conj	2218 Dec 07 22:22	15° \mathcal{X} 13'41	-0°55'48	behind sun end	2219 Nov 17 14:53	24° \mathcal{M} 40'15	
minimum elong	2218 Dec 07 15:23	14° \mathcal{X} 46'14	0°54'55		2219 Nov 20 23:26	0° \mathcal{X}	
max. Earth dist.	2218 Dec 08 12:01	16° \mathcal{X} 07'14	1.45157 AU	max. Earth dist.	2219 Nov 21 06:43	0° \mathcal{X} 28'46	1.44853 AU
	2218 Dec 17 08:00	0° \mathcal{Z}		evening rise	2219 Dec 03 15:14	19° \mathcal{X} 44'29	
evening rise	2218 Dec 23 21:41	10° \mathcal{Z} 23'10			2219 Dec 10 07:19	0° \mathcal{Z}	
greatest brilliancy	2219 Jan 02 01:16	24° \mathcal{Z} 52'17	-0.8m	greatest brilliancy	2219 Dec 17 10:25	10° \mathcal{Z} 46'38	-0.7m
	2219 Jan 05 08:44	0° \approx		evening max el	2219 Dec 29 10:44	26° \mathcal{Z} 42'33	19°54'14
evening max el	2219 Jan 15 05:03	13° \approx 13'02	19°02'32				

	2220 Jan 02 09:55	0°♊			2220 Nov 12 18:09	0°♊	
asc. node	2220 Jan 04 23:36	1°♊01'24			2220 Dec 03 02:56	0°♊	
retrograde	2220 Jan 06 00:12	1°♊07'13		evening max el	2220 Dec 11 11:04	10°♊13'24	20°59'29
	2220 Jan 09 09:35	30°♊		retrograde	2220 Dec 19 21:58	15°♊13'52	
evening set	2220 Jan 09 15:23	29°♊50'03		asc. node	2220 Dec 21 20:39	14°♊52'49	
inferior conj	2220 Jan 15 02:11	23°♊49'06	2°56'35	evening set	2220 Dec 23 22:44	13°♊41'36	
minimum elong	2220 Jan 14 23:36	23°♊57'42	2°55'56	inferior conj	2220 Dec 29 07:33	7°♊29'36	2°20'09
min. Earth dist.	2220 Jan 16 01:05	22°♊32'47	0.66867 AU	minimum elong	2220 Dec 29 05:02	7°♊38'16	2°19'19
morning rise	2220 Jan 20 07:35	17°♊35'47		min. Earth dist.	2220 Dec 29 17:51	6°♊54'11	0.67537 AU
direct	2220 Jan 26 06:31	14°♊56'22		morning rise	2221 Jan 03 11:08	1°♊16'35	
morning max el	2220 Feb 07 05:20	22°♊04'07	25°17'14		2221 Jan 05 04:03	30°♊	
desc. node	2220 Feb 12 03:18	27°♊30'54		direct	2221 Jan 08 19:26	28°♊55'52	
	2220 Feb 14 04:03	0°♊			2221 Jan 12 18:59	0°♊	
	2220 Mar 05 16:43	0°♊		morning max el	2221 Jan 19 13:43	5°♊20'46	23°50'38
morning set	2220 Mar 14 10:50	15°♊04'16		desc. node	2221 Jan 29 00:23	16°♊32'57	
max. Earth dist.	2220 Mar 18 03:18	21°♊50'43	1.36474 AU		2221 Feb 07 14:20	0°♊	
	2220 Mar 22 09:35	0°♊		morning set	2221 Feb 24 02:23	26°♊16'52	
					2221 Feb 26 06:01	0°♊	
superior conj	2220 Mar 24 04:54	3°♊33'03	-1°21'28	max. Earth dist.	2221 Feb 27 22:36	2°♊58'36	1.38538 AU
minimum elong	2220 Mar 24 08:52	3°♊52'41	1°20'53				
evening rise	2220 Apr 01 10:03	20°♊07'51		superior conj	2221 Mar 07 06:24	16°♊24'13	-1°44'39
asc. node	2220 Apr 01 22:56	21°♊12'48		minimum elong	2221 Mar 07 10:43	16°♊44'34	1°44'13
	2220 Apr 06 10:31	0°♊			2221 Mar 14 07:15	0°♊	
evening max el	2220 Apr 18 19:12	18°♊19'56	19°43'13	evening rise	2221 Mar 16 07:20	3°♊55'29	
retrograde	2220 Apr 28 14:51	23°♊04'34		asc. node	2221 Mar 19 19:58	10°♊44'25	
evening set	2220 Apr 30 15:20	22°♊53'25			2221 Apr 01 06:35	0°♊	
inferior conj	2220 May 09 09:29	18°♊51'10	0°12'19	evening max el	2221 Apr 01 17:29	0°♊27'04	18°51'13
minimum elong	2220 May 09 10:01	18°♊50'19	0°12'09	retrograde	2221 Apr 10 00:09	4°♊28'40	
transit middle	2220 May 09 10:01	18°♊50'19	0°12'09	evening set	2221 Apr 12 05:26	4°♊12'26	
transit begin	2220 May 09 07:28	18°♊54'18		inferior conj	2221 Apr 20 04:05	29°♊53'52	1°51'36
transit end	2220 May 09 12:35	18°♊46'19		minimum elong	2221 Apr 20 07:48	29°♊47'10	1°50'28
desc. node	2220 May 10 02:29	18°♊24'34			2221 Apr 20 00:42	30°♊	
min. Earth dist.	2220 May 11 17:27	17°♊24'08	0.55634 AU	min. Earth dist.	2221 Apr 23 09:45	27°♊34'35	0.57156 AU
morning rise	2220 May 18 02:12	14°♊17'49		desc. node	2221 Apr 26 23:32	25°♊23'29	
direct	2220 May 22 10:17	13°♊35'55		morning rise	2221 Apr 28 07:02	24°♊46'26	
morning max el	2220 Jun 05 09:05	20°♊34'42	24°30'36	direct	2221 May 03 16:24	23°♊36'18	
	2220 Jun 13 10:46	0°♊			2221 May 16 20:39	0°♊	
asc. node	2220 Jun 28 22:14	26°♊52'51		morning max el	2221 May 18 00:07	1°♊04'18	26°03'39
	2220 Jun 30 10:11	0°♊			2221 Jun 07 08:35	0°♊	
morning set	2220 Jun 30 17:13	0°♊37'06		morning set	2221 Jun 15 04:31	15°♊30'47	
				asc. node	2221 Jun 15 19:17	16°♊48'56	
superior conj	2220 Jul 07 16:55	15°♊43'20	1°20'51		2221 Jun 21 20:47	0°♊	
minimum elong	2220 Jul 07 14:32	15°♊30'21	1°20'32				
max. Earth dist.	2220 Jul 09 09:08	19°♊21'01	1.32979 AU	superior conj	2221 Jun 22 04:05	0°♊40'08	1°02'43
	2220 Jul 14 10:24	0°♊		minimum elong	2221 Jun 22 01:49	0°♊27'41	1°02'19
evening rise	2220 Jul 14 23:42	1°♊07'53		max. Earth dist.	2221 Jun 22 18:59	2°♊01'56	1.32379 AU
	2220 Jul 31 01:23	0°♊		evening rise	2221 Jun 29 03:50	15°♊43'44	
desc. node	2220 Aug 06 01:51	8°♊47'55			2221 Jul 06 09:30	0°♊	
evening max el	2220 Aug 17 01:28	21°♊39'54	27°25'58	desc. node	2221 Jul 23 22:52	27°♊10'49	
retrograde	2220 Aug 30 18:26	28°♊57'14			2221 Jul 26 08:12	0°♊	
evening set	2220 Sep 06 23:11	26°♊21'47		evening max el	2221 Jul 30 07:48	4°♊08'54	27°05'48
min. Earth dist.	2220 Sep 10 14:06	23°♊16'43	0.63213 AU	retrograde	2221 Aug 13 04:58	11°♊22'35	
inferior conj	2220 Sep 13 07:10	20°♊35'32	-3°32'23	evening set	2221 Aug 20 06:36	9°♊08'04	
minimum elong	2220 Sep 13 12:26	20°♊22'27	3°30'50	min. Earth dist.	2221 Aug 23 22:06	6°♊25'25	0.61308 AU
morning rise	2220 Sep 20 03:00	15°♊21'46		inferior conj	2221 Aug 27 01:28	3°♊40'47	-4°20'35
direct	2220 Sep 22 14:24	14°♊52'43		minimum elong	2221 Aug 27 06:38	3°♊29'27	4°19'32
asc. node	2220 Sep 24 21:26	15°♊18'11			2221 Aug 31 19:05	30°♊	
morning max el	2220 Sep 29 05:34	18°♊18'37	17°51'32	morning rise	2221 Sep 03 08:20	28°♊47'30	
	2220 Oct 07 16:43	0°♊		direct	2221 Sep 05 18:15	28°♊23'35	
morning set	2220 Oct 15 15:07	13°♊40'19			2221 Sep 10 12:09	0°♊	
	2220 Oct 25 02:03	0°♊		asc. node	2221 Sep 11 18:31	0°♊57'36	
				morning max el	2221 Sep 12 19:46	1°♊55'01	17°58'39
superior conj	2220 Oct 27 12:46	4°♊06'00	0°37'02	morning set	2221 Sep 28 16:07	26°♊53'34	
minimum elong	2220 Oct 27 16:20	4°♊20'48	0°36'32		2221 Sep 30 08:42	0°♊	
desc. node	2220 Nov 02 01:11	13°♊08'29					
max. Earth dist.	2220 Nov 02 23:21	14°♊37'46	1.43860 AU	superior conj	2221 Oct 08 22:24	15°♊25'51	1°10'39
evening rise	2220 Nov 11 23:41	28°♊48'48		minimum elong	2221 Oct 09 02:54	15°♊45'29	1°10'08

max. Earth dist.	2221 Oct 16 11:41	28° Ω 17'41	1.42296 AU	desc. node	2222 Oct 06 19:13	24° Ω 37'39	
	2221 Oct 17 12:30	0° \mathbb{M}			2222 Oct 10 04:38	0° \mathbb{M}	
desc. node	2221 Oct 19 22:12	3° \mathbb{M} 55'01			2222 Oct 31 08:52	0° \mathbb{A}	
evening rise	2221 Oct 22 15:51	8° \mathbb{M} 17'41		evening max el	2222 Nov 06 20:22	7° \mathbb{A} 19'15	23°34'18
	2221 Nov 05 23:01	0° \mathbb{A}		retrograde	2222 Nov 17 11:25	13° \mathbb{A} 36'00	
evening max el	2221 Nov 24 05:55	23° \mathbb{A} 45'09	22°14'33	evening set	2222 Nov 22 12:40	11° \mathbb{A} 30'14	
retrograde	2221 Dec 03 18:09	29° \mathbb{A} 24'30		asc. node	2222 Nov 25 14:46	8° \mathbb{A} 11'21	
evening set	2221 Dec 08 06:22	27° \mathbb{A} 35'45		inferior conj	2222 Nov 27 22:09	5° \mathbb{A} 06'33	0°47'06
asc. node	2221 Dec 08 17:43	27° \mathbb{A} 11'25		minimum elong	2222 Nov 27 21:04	5° \mathbb{A} 10'16	0°46'39
inferior conj	2221 Dec 13 14:49	21° \mathbb{A} 16'01	1°36'32	min. Earth dist.	2222 Nov 27 10:22	5° \mathbb{A} 46'50	0.67784 AU
minimum elong	2221 Dec 13 12:48	21° \mathbb{A} 22'58	1°35'45		2222 Dec 02 01:58	30° \mathbb{R} \mathbb{M}	
min. Earth dist.	2221 Dec 13 13:44	21° \mathbb{A} 19'46	0.67833 AU	morning rise	2222 Dec 03 05:25	28° \mathbb{M} 59'39	
morning rise	2221 Dec 18 19:06	15° \mathbb{A} 05'07		direct	2222 Dec 07 08:25	27° \mathbb{M} 24'17	
direct	2221 Dec 23 12:22	13° \mathbb{A} 06'54			2222 Dec 13 05:41	0° \mathbb{A}	
morning max el	2222 Jan 02 00:37	18° \mathbb{A} 43'27	22°22'35	morning max el	2222 Dec 15 17:30	2° \mathbb{A} 15'54	21°00'58
	2222 Jan 11 09:59	0° \mathbb{B}		desc. node	2223 Jan 02 18:28	26° \mathbb{A} 11'15	
desc. node	2222 Jan 15 21:26	6° \mathbb{B} 09'39			2223 Jan 05 07:52	0° \mathbb{B}	
	2222 Jan 31 18:29	0° \approx		morning set	2223 Jan 14 21:58	14° \mathbb{B} 41'27	
morning set	2222 Feb 04 13:58	6° \approx 07'15		max. Earth dist.	2223 Jan 22 22:45	27° \mathbb{B} 31'00	1.42639 AU
max. Earth dist.	2222 Feb 09 19:27	14° \approx 47'37	1.40688 AU		2223 Jan 24 11:09	0° \approx	
superior conj	2222 Feb 17 14:37	28° \approx 22'55	-2°00'41	superior conj	2223 Jan 30 00:08	9° \approx 15'57	-2°04'59
minimum elong	2222 Feb 17 17:31	28° \approx 35'59	2°00'33	minimum elong	2223 Jan 29 23:05	9° \approx 11'28	2°04'58
	2222 Feb 18 12:11	0° \mathbb{H}		evening rise	2223 Feb 10 14:57	29° \approx 38'57	
evening rise	2222 Feb 27 18:18	17° \mathbb{H} 09'03			2223 Feb 10 19:39	0° \mathbb{H}	
asc. node	2222 Mar 06 17:01	29° \mathbb{H} 53'42		asc. node	2223 Feb 21 14:03	18° \mathbb{H} 32'28	
	2222 Mar 06 18:28	0° \mathbb{Y}		evening max el	2223 Feb 27 10:36	26° \mathbb{H} 07'21	18°07'24
evening max el	2222 Mar 15 23:43	13° \mathbb{Y} 06'10	18°19'25	retrograde	2223 Mar 06 01:34	29° \mathbb{H} 31'34	
retrograde	2222 Mar 23 04:46	16° \mathbb{Y} 41'15		evening set	2223 Mar 08 18:19	28° \mathbb{H} 57'40	
evening set	2222 Mar 25 16:03	16° \mathbb{Y} 17'01		inferior conj	2223 Mar 15 07:25	23° \mathbb{H} 57'54	3°32'30
inferior conj	2222 Apr 01 20:08	11° \mathbb{Y} 37'52	2°57'42	minimum elong	2223 Mar 15 09:16	23° \mathbb{H} 53'22	3°32'19
minimum elong	2222 Apr 01 23:44	11° \mathbb{Y} 30'15	2°56'56	min. Earth dist.	2223 Mar 18 10:24	20° \mathbb{H} 55'56	0.61309 AU
min. Earth dist.	2222 Apr 05 06:30	8° \mathbb{Y} 45'01	0.59162 AU	morning rise	2223 Mar 21 22:30	18° \mathbb{H} 03'59	
morning rise	2222 Apr 09 04:51	6° \mathbb{Y} 02'17		direct	2223 Mar 28 17:58	15° \mathbb{H} 43'51	
desc. node	2222 Apr 13 20:35	4° \mathbb{Y} 23'19		desc. node	2223 Mar 31 17:37	16° \mathbb{H} 08'48	
direct	2222 Apr 15 11:37	4° \mathbb{Y} 16'13		morning max el	2223 Apr 11 22:45	23° \mathbb{H} 38'42	27°46'49
morning max el	2222 Apr 29 20:15	12° \mathbb{Y} 01'33	27°12'27		2223 Apr 17 15:45	0° \mathbb{Y}	
	2222 May 13 22:22	0° \mathbb{B}			2223 May 07 03:53	0° \mathbb{B}	
	2222 May 30 10:24	0° \mathbb{I}		morning set	2223 May 14 18:34	14° \mathbb{B} 47'39	
morning set	2222 May 30 13:37	0° \mathbb{I} 16'47		asc. node	2223 May 20 13:21	27° \mathbb{B} 02'50	
asc. node	2222 Jun 02 16:19	6° \mathbb{I} 54'02		max. Earth dist.	2223 May 20 18:09	27° \mathbb{B} 28'55	1.32337 AU
					2223 May 21 21:52	0° \mathbb{I}	
superior conj	2222 Jun 06 15:54	15° \mathbb{I} 36'34	0°40'59	superior conj	2223 May 22 02:36	0° \mathbb{I} 25'55	0°16'20
minimum elong	2222 Jun 06 14:12	15° \mathbb{I} 27'13	0°40'39	minimum elong	2223 May 22 01:51	0° \mathbb{I} 21'50	0°16'10
max. Earth dist.	2222 Jun 06 07:21	14° \mathbb{I} 49'30	1.32166 AU	evening rise	2223 May 28 23:48	15° \mathbb{I} 23'22	
	2222 Jun 13 06:37	0° \mathbb{E}			2223 Jun 05 06:35	0° \mathbb{E}	
evening rise	2222 Jun 13 12:36	0° \mathbb{E} 31'38		evening max el	2223 Jun 23 23:50	26° \mathbb{E} 48'39	24°52'28
	2222 Jun 29 14:39	0° Ω		desc. node	2223 Jun 27 16:52	29° \mathbb{E} 58'01	
desc. node	2222 Jul 10 19:52	14° Ω 23'44			2223 Jun 27 17:57	0° Ω	
evening max el	2222 Jul 12 07:22	15° Ω 51'37	26°12'40	retrograde	2223 Jul 07 22:55	3° Ω 53'31	
retrograde	2222 Jul 26 07:02	23° Ω 02'17		evening set	2223 Jul 13 04:54	2° Ω 50'46	
evening set	2222 Aug 01 17:37	21° Ω 20'39		min. Earth dist.	2223 Jul 18 11:14	0° Ω 02'43	0.57279 AU
min. Earth dist.	2222 Aug 05 20:06	18° Ω 44'42	0.59250 AU		2223 Jul 18 12:56	30° \mathbb{R} \mathbb{E}	
inferior conj	2222 Aug 09 03:26	16° Ω 14'06	-4°52'55	inferior conj	2223 Jul 21 09:56	28° \mathbb{E} 06'00	-4°57'03
minimum elong	2222 Aug 09 06:19	16° Ω 08'35	4°52'39	minimum elong	2223 Jul 21 08:00	28° \mathbb{E} 09'12	4°56'57
morning rise	2222 Aug 16 21:09	11° Ω 43'46		morning rise	2223 Jul 29 13:47	23° \mathbb{E} 57'36	
direct	2222 Aug 19 08:14	11° Ω 22'54		direct	2223 Aug 01 04:05	23° \mathbb{E} 38'22	
morning max el	2222 Aug 27 04:47	15° Ω 09'31	18°25'39	morning max el	2223 Aug 10 05:29	27° \mathbb{E} 52'23	19°13'42
asc. node	2222 Aug 29 15:34	17° Ω 49'38			2223 Aug 12 06:39	0° Ω	
	2222 Sep 06 12:33	0° \mathbb{P}		asc. node	2223 Aug 16 12:35	5° Ω 38'56	
morning set	2222 Sep 12 06:14	10° \mathbb{P} 44'29		morning set	2223 Aug 27 05:27	25° Ω 02'03	
					2223 Aug 29 17:12	0° \mathbb{P}	
superior conj	2222 Sep 21 07:29	27° \mathbb{P} 55'06	1°32'18	superior conj	2223 Sep 04 10:18	11° \mathbb{P} 17'17	1°43'17
minimum elong	2222 Sep 21 10:44	28° \mathbb{P} 10'07	1°32'03	minimum elong	2223 Sep 04 11:40	11° \mathbb{P} 23'59	1°43'13
	2222 Sep 22 10:39	0° \mathbb{L}		max. Earth dist.	2223 Sep 10 22:14	23° \mathbb{P} 31'18	1.38293 AU
max. Earth dist.	2222 Sep 28 18:39	11° \mathbb{L} 15'48	1.40356 AU				
evening rise	2222 Oct 03 04:27	18° \mathbb{L} 43'30					

evening rise	2223 Sep 14 17:07	0°♌16'36		superior conj	2224 Aug 18 01:51	25°♏17'43	1°45'23
	2223 Sep 14 13:19	0°♌		minimum elong	2224 Aug 18 01:31	25°♏16'04	1°45'23
desc. node	2223 Sep 23 16:14	15°♌12'24			2224 Aug 20 10:08	0°♏	
	2223 Oct 03 11:54	0°♍		max. Earth dist.	2224 Aug 23 04:16	5°♏23'33	1.36366 AU
evening max el	2223 Oct 20 08:36	20°♍57'19	24°52'26	evening rise	2224 Aug 27 03:12	12°♏50'43	
retrograde	2223 Nov 01 00:47	27°♍44'38			2224 Sep 06 01:10	0°♌	
evening set	2223 Nov 06 16:01	25°♍22'48		desc. node	2224 Sep 09 13:14	5°♌33'59	
min. Earth dist.	2223 Nov 11 05:28	20°♍13'17	0.67398 AU		2224 Sep 27 11:42	0°♍	
inferior conj	2223 Nov 12 03:50	18°♍59'24	-0°06'51	evening max el	2224 Oct 01 20:40	4°♍37'34	26°01'37
minimum elong	2223 Nov 12 04:00	18°♍58'51	0°06'46	retrograde	2224 Oct 14 09:21	11°♍44'27	
transit middle	2223 Nov 12 04:00	18°♍58'51	0°06'46	evening set	2224 Oct 20 14:36	9°♍09'31	
transit begin	2223 Nov 12 01:30	19°♍07'09		min. Earth dist.	2224 Oct 24 20:37	4°♍35'32	0.66678 AU
transit end	2223 Nov 12 06:31	18°♍50'34		inferior conj	2224 Oct 26 06:03	2°♍51'02	-1°04'03
asc. node	2223 Nov 12 11:48	18°♍33'10		minimum elong	2224 Oct 26 07:44	2°♍45'46	1°03'19
morning rise	2223 Nov 17 16:08	12°♍58'47			2224 Oct 28 15:05	30°♌♌	
direct	2223 Nov 21 06:30	11°♍44'10		asc. node	2224 Oct 29 08:50	29°♌12'31	
morning max el	2223 Nov 28 18:07	15°♍59'38	19°51'13	morning rise	2224 Nov 01 01:14	26°♌59'24	
	2223 Dec 09 15:15	0°♌		direct	2224 Nov 04 05:02	26°♌02'12	
desc. node	2223 Dec 20 15:30	16°♌31'10		morning max el	2224 Nov 11 01:59	29°♌51'44	18°56'15
morning set	2223 Dec 24 17:55	22°♌49'34			2224 Nov 11 05:15	0°♍	
	2223 Dec 29 08:50	0°♌			2224 Dec 02 00:29	0°♌	
max. Earth dist.	2224 Jan 05 09:14	11°♌03'06	1.44137 AU	morning set	2224 Dec 03 03:07	1°♌44'28	
				desc. node	2224 Dec 06 12:32	7°♌03'42	
superior conj	2224 Jan 10 07:29	18°♌57'55	-1°52'32	max. Earth dist.	2224 Dec 18 01:32	25°♌09'59	1.44999 AU
minimum elong	2224 Jan 10 00:54	18°♌31'17	1°52'06				
	2224 Jan 17 00:32	0°♌		superior conj	2224 Dec 19 16:08	27°♌41'53	-1°21'00
evening rise	2224 Jan 23 17:01	11°♌17'31		minimum elong	2224 Dec 19 07:19	27°♌07'11	1°20'03
	2224 Feb 03 21:34	0°♌			2224 Dec 21 03:09	0°♌	
asc. node	2224 Feb 08 11:05	6°♌31'45		evening rise	2225 Jan 03 20:42	21°♌58'55	
evening max el	2224 Feb 10 23:11	9°♌23'27	18°14'35		2225 Jan 08 19:01	0°♌	
retrograde	2224 Feb 17 10:06	12°♌50'24		evening max el	2225 Jan 24 10:48	22°♌48'12	18°40'06
evening set	2224 Feb 20 08:06	12°♌05'43		asc. node	2225 Jan 25 08:06	23°♌39'51	
inferior conj	2224 Feb 26 10:00	6°♌46'21	3°42'46	retrograde	2225 Jan 31 02:11	26°♌29'39	
minimum elong	2224 Feb 26 09:55	6°♌46'33	3°42'46	evening set	2225 Feb 03 05:59	25°♌33'10	
min. Earth dist.	2224 Feb 28 23:22	3°♌58'15	0.63322 AU	inferior conj	2225 Feb 08 23:58	19°♌55'48	3°34'54
morning rise	2224 Mar 03 10:49	0°♌42'14		minimum elong	2225 Feb 08 22:26	20°♌00'26	3°34'45
	2224 Mar 04 09:50	30°♌♌		min. Earth dist.	2225 Feb 10 21:44	17°♌37'46	0.65018 AU
direct	2224 Mar 10 09:19	27°♌58'50		morning rise	2225 Feb 14 14:27	13°♌46'13	
	2224 Mar 16 21:56	0°♌		direct	2225 Feb 21 07:50	10°♌54'25	
desc. node	2224 Mar 17 14:39	0°♌25'18		desc. node	2225 Mar 04 11:42	16°♌37'55	
morning max el	2224 Mar 24 06:02	5°♌55'03	27°43'43	morning max el	2225 Mar 06 15:31	18°♌41'39	27°06'30
	2224 Apr 11 12:55	0°♌			2225 Mar 16 05:16	0°♌	
morning set	2224 Apr 27 17:06	28°♌55'54			2225 Apr 04 11:55	0°♌	
	2224 Apr 28 05:52	0°♌		morning set	2225 Apr 11 06:15	12°♌32'20	
max. Earth dist.	2224 May 02 23:23	9°♌46'58	1.32916 AU	max. Earth dist.	2225 Apr 15 19:25	21°♌34'11	1.33941 AU
superior conj	2224 May 05 10:27	15°♌02'24	-0°10'30	superior conj	2225 Apr 19 13:28	29°♌19'55	-0°38'29
minimum elong	2224 May 05 10:58	15°♌05'10	0°10'23	minimum elong	2225 Apr 19 15:25	29°♌30'09	0°38'05
behind sun begin	2224 May 05 06:56	14°♌43'28			2225 Apr 19 21:06	0°♌	
behind sun end	2224 May 05 15:00	15°♌26'53		asc. node	2225 Apr 23 07:25	7°♌15'39	
asc. node	2224 May 06 10:22	17°♌11'21		evening rise	2225 Apr 26 22:09	14°♌53'45	
evening rise	2224 May 12 11:35	0°♌12'45			2225 May 04 14:09	0°♌	
	2224 May 12 09:11	0°♌		evening max el	2225 May 17 07:44	17°♌55'08	21°43'50
	2224 May 29 05:55	0°♌		retrograde	2225 May 29 18:22	24°♌01'51	
evening max el	2224 Jun 04 13:31	7°♌19'35	23°17'50	desc. node	2225 May 31 10:53	23°♌55'23	
desc. node	2224 Jun 13 13:53	13°♌18'46		evening set	2225 Jun 01 07:23	23°♌47'20	
retrograde	2224 Jun 18 02:27	14°♌05'20		inferior conj	2225 Jun 10 17:07	19°♌45'09	-2°52'27
evening set	2224 Jun 21 20:17	13°♌34'37		minimum elong	2225 Jun 10 09:43	19°♌55'31	2°50'08
min. Earth dist.	2224 Jun 28 23:21	10°♌19'59	0.55737 AU	min. Earth dist.	2225 Jun 10 11:02	19°♌53'40	0.54950 AU
inferior conj	2224 Jun 30 20:38	9°♌13'19	-4°18'42	morning rise	2225 Jun 19 13:08	15°♌50'38	
minimum elong	2224 Jun 30 13:41	9°♌23'36	4°17'21	direct	2225 Jun 22 16:51	15°♌28'46	
morning rise	2224 Jul 09 09:38	5°♌19'14		morning max el	2225 Jul 04 21:47	21°♌13'20	21°51'23
direct	2224 Jul 12 04:54	5°♌00'09			2225 Jul 12 07:31	0°♌	
morning max el	2224 Jul 22 19:21	9°♌54'54	20°22'59	asc. node	2225 Jul 20 06:40	13°♌19'50	
asc. node	2224 Aug 02 09:37	24°♌12'32		morning set	2225 Jul 25 20:16	24°♌27'30	
	2224 Aug 05 14:06	0°♌			2225 Jul 28 11:33	0°♌	
morning set	2224 Aug 10 10:51	9°♌38'19					

superior conj	2225 Aug 02 02:22	9°Ω45'32	1°40'19	morning set	2226 Jul 10 07:42	9°Ω22'35	
minimum elong	2225 Aug 02 00:49	9°Ω37'24	1°40'13				
max. Earth dist.	2225 Aug 05 18:15	17°Ω19'39	1.34746 AU	superior conj	2226 Jul 17 08:47	24°Ω30'17	1°29'23
evening rise	2225 Aug 10 06:14	26°Ω14'17		minimum elong	2226 Jul 17 06:33	24°Ω18'16	1°29'09
	2225 Aug 12 05:44	0°Π		max. Earth dist.	2226 Jul 19 17:22	29°Ω32'28	1.33506 AU
desc. node	2225 Aug 27 10:15	25°Π36'22			2226 Jul 19 22:35	0°Ω	
	2225 Aug 30 10:11	0°Ω		evening rise	2226 Jul 24 21:42	10°Ω13'40	
evening max el	2225 Sep 14 09:09	18°Ω13'36	26°54'01		2226 Aug 04 14:14	0°Π	
retrograde	2225 Sep 27 12:26	25°Ω29'29		desc. node	2226 Aug 14 07:16	15°Π10'11	
evening set	2225 Oct 04 06:18	22°Ω46'52			2226 Aug 26 07:04	0°Ω	
min. Earth dist.	2225 Oct 08 05:24	18°Ω49'24	0.65617 AU	evening max el	2226 Aug 27 20:49	1°Ω33'10	27°22'35
inferior conj	2225 Oct 10 02:47	16°Ω37'52	-2°02'47	retrograde	2226 Sep 10 09:38	8°Ω51'08	
minimum elong	2225 Oct 10 06:05	16°Ω28'16	2°01'28	evening set	2226 Sep 17 12:24	6°Ω09'31	
morning rise	2225 Oct 16 06:32	10°Ω58'21		min. Earth dist.	2226 Sep 21 05:30	2°Ω47'08	0.64194 AU
asc. node	2225 Oct 16 05:52	10°Ω59'12		inferior conj	2226 Sep 23 15:35	0°Ω14'04	-3°00'43
direct	2225 Oct 19 02:04	10°Ω14'50		minimum elong	2226 Sep 23 20:19	0°Ω01'35	2°59'07
morning max el	2225 Oct 25 15:17	13°Ω48'09	18°17'32		2226 Sep 23 20:55	30°RΠ	
	2225 Nov 06 05:32	0°Π		morning rise	2226 Sep 30 05:18	24°Π50'10	
morning set	2225 Nov 13 16:22	12°Π05'10		direct	2226 Oct 02 18:58	24°Π16'46	
desc. node	2225 Nov 23 09:34	27°Π44'48		asc. node	2226 Oct 03 02:56	24°Π17'19	
	2225 Nov 24 19:34	0°♂		morning max el	2226 Oct 09 07:20	27°Π42'42	17°55'55
					2226 Oct 11 08:42	0°Ω	
superior conj	2225 Nov 28 17:54	6°♂13'11	-0°35'24	morning set	2226 Oct 26 09:31	23°Ω47'17	
minimum elong	2225 Nov 28 13:20	5°♂55'11	0°34'47		2226 Oct 30 01:17	0°Π	
max. Earth dist.	2225 Nov 30 20:49	9°♂33'36	1.45129 AU				
	2225 Dec 13 22:17	0°♂		superior conj	2226 Nov 08 10:04	15°Π30'54	0°12'34
evening rise	2225 Dec 15 01:21	1°♂45'51		minimum elong	2226 Nov 08 11:30	15°Π36'41	0°12'21
greatest brilliancy	2225 Dec 26 09:27	19°♂23'30	-0.7m	behind sun begin	2226 Nov 08 04:53	15°Π09'51	
	2226 Jan 02 15:20	0°≈		behind sun end	2226 Nov 08 18:07	16°Π03'28	
evening max el	2226 Jan 07 19:12	6°≈17'04	19°22'42	desc. node	2226 Nov 10 06:37	18°Π30'48	
asc. node	2226 Jan 12 05:09	9°≈42'57		max. Earth dist.	2226 Nov 13 15:28	23°Π53'54	1.44516 AU
retrograde	2226 Jan 14 22:34	10°≈23'19			2226 Nov 17 12:17	0°♂	
evening set	2226 Jan 18 09:15	9°≈13'55		evening rise	2226 Nov 24 13:14	10°♂55'50	
inferior conj	2226 Jan 23 22:00	3°≈20'39	3°13'37		2226 Dec 07 03:15	0°♂	
minimum elong	2226 Jan 23 19:38	3°≈28'18	3°13'09	evening max el	2226 Dec 21 22:40	19°♂47'20	20°20'29
min. Earth dist.	2226 Jan 25 04:44	1°≈41'11	0.66314 AU	retrograde	2226 Dec 29 20:34	24°♂26'41	
	2226 Jan 26 13:11	30°R♂		asc. node	2226 Dec 30 02:12	24°♂26'23	
morning rise	2226 Jan 29 05:48	27°♂08'17		evening set	2227 Jan 02 15:40	23°♂03'06	
direct	2226 Feb 04 12:26	24°♂21'34		inferior conj	2227 Jan 08 01:22	16°♂56'49	2°42'06
	2226 Feb 15 04:34	0°≈		minimum elong	2227 Jan 07 22:46	17°♂05'40	2°41'21
morning max el	2226 Feb 17 01:00	1°≈47'11	26°02'30	min. Earth dist.	2227 Jan 08 18:38	15°♂58'18	0.67198 AU
desc. node	2226 Feb 19 08:46	4°≈14'33		morning rise	2227 Jan 13 05:41	10°♂43'27	
	2226 Mar 10 07:50	0°♂		direct	2227 Jan 18 22:23	8°♂11'37	
morning set	2226 Mar 25 06:01	25°♂24'54		morning max el	2227 Jan 30 09:41	15°♂02'17	24°41'14
	2226 Mar 27 16:35	0°Υ		desc. node	2227 Feb 06 05:49	22°♂50'56	
max. Earth dist.	2226 Mar 29 04:05	2°Υ50'21	1.35431 AU		2227 Feb 11 16:18	0°≈	
					2227 Mar 03 05:24	0°♂	
superior conj	2226 Apr 03 09:09	13°Υ10'42	-1°06'17	morning set	2227 Mar 07 11:11	7°♂19'30	
minimum elong	2226 Apr 03 12:30	13°Υ27'39	1°05'43	max. Earth dist.	2227 Mar 11 02:54	13°♂53'28	1.37323 AU
asc. node	2226 Apr 10 04:28	27°Υ11'04					
evening rise	2226 Apr 11 05:28	29°Υ19'37		superior conj	2227 Mar 17 18:26	26°♂26'45	-1°31'56
	2226 Apr 11 13:22	0°♂		minimum elong	2227 Mar 17 22:41	26°♂47'28	1°31'22
evening max el	2226 Apr 29 12:08	28°♂59'42	20°22'02		2227 Mar 19 14:00	0°Υ	
	2226 Apr 30 14:16	0°Π		evening rise	2227 Mar 26 07:16	13°Υ23'53	
retrograde	2226 May 10 07:41	4°Π14'36		asc. node	2227 Mar 28 01:31	16°Υ53'20	
evening set	2226 May 12 08:41	4°Π04'10			2227 Apr 04 04:01	0°♂	
desc. node	2226 May 18 07:56	1°Π52'51		evening max el	2227 Apr 12 04:19	10°♂44'34	19°18'35
inferior conj	2226 May 21 11:53	0°Π06'04	-0°55'31	retrograde	2227 Apr 21 07:21	15°♂09'40	
minimum elong	2226 May 21 09:16	0°Π09'53	0°54'32	evening set	2227 Apr 23 09:15	14°♂56'53	
	2226 May 21 16:01	30°R♂		inferior conj	2227 May 01 19:16	10°♂48'19	0°58'07
min. Earth dist.	2226 May 22 23:39	29°♂13'49	0.55110 AU	minimum elong	2227 May 01 21:36	10°♂44'28	0°57'19
morning rise	2226 May 30 08:39	25°♂51'37		min. Earth dist.	2227 May 04 14:28	8°♂57'32	0.56194 AU
direct	2226 Jun 03 03:49	25°♂20'25		desc. node	2227 May 05 04:58	8°♂34'38	
	2226 Jun 14 10:56	0°Π		morning rise	2227 May 10 07:00	6°♂00'07	
morning max el	2226 Jun 16 15:22	1°Π54'24	23°32'06	direct	2227 May 15 01:28	5°♂07'55	
	2226 Jul 05 17:10	0°♂		morning max el	2227 May 29 05:50	12°♂21'01	25°12'22
asc. node	2226 Jul 07 03:44	2°♂51'11			2227 Jun 11 21:03	0°Π	

asc. node	2227 Jun 24 00:48	22°II40'00		morning set	2228 Jun 08 06:03	9°II09'17	
morning set	2227 Jun 24 19:31	24°II18'21		asc. node	2228 Jun 09 21:51	12°II40'31	
	2227 Jun 27 11:20	0°☿					
superior conj	2227 Jul 01 18:47	9°☿24'39	1°13'39	superior conj	2228 Jun 15 06:25	24°II22'02	0°53'54
minimum elong	2227 Jul 01 16:23	9°☿11'35	1°13'17	minimum elong	2228 Jun 15 04:21	24°II10'37	0°53'31
max. Earth dist.	2227 Jul 03 00:02	12°☿04'09	1.32672 AU	max. Earth dist.	2228 Jun 15 11:09	24°II48'03	1.32233 AU
evening rise	2227 Jul 08 22:02	24°☿38'36		evening rise	2228 Jun 17 19:59	0°☿	
	2227 Jul 11 13:41	0°♊			2228 Jun 22 04:23	9°☿20'17	
	2227 Jul 29 04:57	0°♋			2228 Jul 02 21:59	0°♊	
desc. node	2227 Aug 01 04:17	4°♋03'35		desc. node	2228 Jul 18 01:17	21°♊59'55	
evening max el	2227 Aug 10 05:37	14°♋23'32	27°21'23	evening max el	2228 Jul 22 09:12	26°♊33'28	26°47'09
retrograde	2227 Aug 24 00:36	21°♋39'56		retrograde	2228 Jul 26 11:42	0°♋	
evening set	2227 Aug 31 05:22	19°♋11'21		evening set	2228 Aug 05 08:06	3°♋46'45	
min. Earth dist.	2227 Sep 03 19:28	16°♋17'42	0.62433 AU		2228 Aug 12 04:45	1°♋44'56	
inferior conj	2227 Sep 06 17:34	13°♋32'52	-3°54'10	min. Earth dist.	2228 Aug 14 19:45	30°♋♊	
minimum elong	2227 Sep 06 22:59	13°♋20'04	3°52'46	inferior conj	2228 Aug 15 23:11	29°♊07'13	0.60429 AU
morning rise	2227 Sep 13 18:07	8°♋27'48		minimum elong	2228 Aug 19 05:21	26°♊25'58	-4°36'57
direct	2227 Sep 16 04:30	8°♋01'19		morning rise	2228 Aug 19 09:52	26°♊16'36	4°36'14
asc. node	2227 Sep 20 00:01	9°♋08'13		direct	2228 Aug 26 16:54	21°♊42'23	
morning max el	2227 Sep 22 23:09	11°♋28'23	17°52'16	morning max el	2228 Aug 29 02:49	21°♊20'09	
	2227 Oct 05 08:41	0°♌		asc. node	2228 Sep 05 11:34	24°♊57'08	18°07'40
morning set	2227 Oct 09 00:40	6°♌32'21		asc. node	2228 Sep 05 21:04	25°♊20'37	
					2228 Sep 09 16:41	0°♋	
superior conj	2227 Oct 20 04:20	26°♌06'09	0°52'45	morning set	2228 Sep 21 07:51	20°♋03'38	
minimum elong	2227 Oct 20 08:40	26°♌24'32	0°52'11		2228 Sep 26 15:40	0°♌	
	2227 Oct 22 11:48	0°♍		superior conj	2228 Oct 01 00:39	7°♌58'00	1°21'14
max. Earth dist.	2227 Oct 27 06:18	7°♍51'54	1.43252 AU	minimum elong	2228 Oct 01 04:46	8°♌16'27	1°20'48
desc. node	2227 Oct 28 03:37	9°♍18'15		max. Earth dist.	2228 Oct 08 15:50	21°♌13'43	1.41498 AU
evening rise	2227 Nov 03 22:51	20°♍05'17		evening rise	2228 Oct 13 22:46	29°♌56'38	
	2227 Nov 10 09:57	0°♎			2228 Oct 13 23:36	0°♍	
	2227 Dec 01 20:42	0°♏		desc. node	2228 Oct 14 00:38	0°♍04'09	
evening max el	2227 Dec 04 20:27	3°♏18'04	21°30'27		2228 Nov 02 23:01	0°♎	
retrograde	2227 Dec 13 17:59	8°♏35'34		evening max el	2228 Nov 16 13:15	16°♎51'24	22°48'13
asc. node	2227 Dec 16 23:15	7°♏38'24		retrograde	2228 Nov 26 13:07	22°♎47'26	
evening set	2227 Dec 17 23:20	6°♏56'27		evening set	2228 Dec 01 06:35	20°♎51'43	
inferior conj	2227 Dec 23 07:47	0°♏40'28	2°02'26	asc. node	2228 Dec 02 20:17	19°♎21'13	
minimum elong	2227 Dec 23 05:26	0°♏48'38	2°01'36	inferior conj	2228 Dec 06 15:19	14°♎29'49	1°16'13
min. Earth dist.	2227 Dec 23 13:06	0°♏22'04	0.67703 AU	minimum elong	2228 Dec 06 13:39	14°♎35'34	1°15'34
	2227 Dec 23 19:29	30°♋♎		min. Earth dist.	2228 Dec 06 09:43	14°♎49'12	0.67856 AU
morning rise	2227 Dec 28 11:21	24°♎27'55		morning rise	2228 Dec 11 20:36	8°♎20'05	
direct	2228 Jan 02 13:07	22°♎16'38		direct	2228 Dec 16 07:40	6°♎31'31	
morning max el	2228 Jan 12 18:49	28°♎21'50	23°12'47	morning max el	2228 Dec 25 07:47	11°♎48'23	21°46'33
	2228 Jan 14 08:18	0°♏			2229 Jan 08 14:59	0°♏	
desc. node	2228 Jan 24 02:51	12°♏09'13		desc. node	2229 Jan 09 23:53	1°♏57'57	
	2228 Feb 05 09:54	0°♐		morning set	2229 Jan 26 14:22	27°♏13'31	
morning set	2228 Feb 16 15:22	17°♐58'29			2229 Jan 28 07:51	0°♐	
max. Earth dist.	2228 Feb 20 21:38	25°♐14'15	1.39455 AU	max. Earth dist.	2229 Feb 01 20:15	7°♐23'50	1.41565 AU
	2228 Feb 23 14:44	0°♑					
superior conj	2228 Feb 28 13:06	8°♑56'41	-1°52'35	superior conj	2229 Feb 09 12:17	20°♐29'08	-2°04'15
minimum elong	2228 Feb 28 17:06	9°♑15'09	1°52'16	minimum elong	2229 Feb 09 13:50	20°♐35'57	2°04'13
evening rise	2228 Mar 09 00:33	26°♑57'50			2229 Feb 14 20:17	0°♑	
	2228 Mar 10 14:31	0°♒		evening rise	2229 Feb 20 05:52	9°♑53'36	
asc. node	2228 Mar 13 22:33	6°♒16'19		asc. node	2229 Feb 28 19:35	25°♑13'38	
evening max el	2228 Mar 25 06:21	23°♒06'12	18°35'15		2229 Mar 03 20:21	0°♒	
retrograde	2228 Apr 02 00:48	26°♒54'33		evening max el	2229 Mar 08 14:59	5°♒56'06	18°11'57
evening set	2228 Apr 04 08:32	26°♒35'19		retrograde	2229 Mar 15 12:33	9°♒24'19	
inferior conj	2228 Apr 11 22:59	22°♒08'32	2°23'47	evening set	2229 Mar 18 02:19	8°♒56'04	
minimum elong	2228 Apr 12 02:58	22°♒00'50	2°22'43	inferior conj	2229 Mar 24 23:34	4°♒08'19	3°15'53
min. Earth dist.	2228 Apr 15 08:38	19°♒31'49	0.57968 AU	minimum elong	2229 Mar 25 02:31	4°♒01'39	3°15'24
morning rise	2228 Apr 19 18:19	16°♒47'35		min. Earth dist.	2229 Mar 28 08:05	1°♒08'22	0.60084 AU
desc. node	2228 Apr 21 02:01	16°♒13'32			2229 Mar 29 17:31	30°♋♑	
direct	2228 Apr 25 13:37	15°♒22'22		morning rise	2229 Apr 01 00:31	28°♑23'59	
morning max el	2228 May 09 22:43	22°♒59'58	26°36'38	direct	2229 Apr 07 14:11	26°♑22'14	
	2228 May 16 04:42	0°♒		desc. node	2229 Apr 07 23:03	26°♑22'37	
	2228 Jun 03 18:04	0°♓			2229 Apr 16 23:45	0°♒	
				morning max el	2229 Apr 21 21:17	4°♒12'23	27°31'33

	2229 May 10 21:45	0°♄			2230 May 03 12:31	0°♄	
morning set	2229 May 23 13:34	23°♄49'16		morning set	2230 May 07 16:06	8°♄11'57	
	2229 May 26 11:46	0°♄		max. Earth dist.	2230 May 13 08:16	20°♄06'21	1.32536 AU
asc. node	2229 May 27 18:52	2°♄47'40		asc. node	2230 May 14 15:53	22°♄57'19	
max. Earth dist.	2229 May 29 23:09	7°♄33'02	1.32187 AU				
				superior conj	2230 May 15 03:40	24°♄01'18	0°05'12
superior conj	2229 May 30 17:56	9°♄16'09	0°30'51	minimum elong	2230 May 15 03:25	23°♄59'57	0°05'08
minimum elong	2229 May 30 16:36	9°♄08'48	0°30'34	behind sun begin	2230 May 14 22:31	23°♄33'17	
evening rise	2229 Jun 06 14:24	24°♄10'40		behind sun end	2230 May 15 08:20	24°♄26'40	
	2229 Jun 09 09:36	0°♄			2230 May 17 21:28	0°♄	
	2229 Jun 27 05:32	0°♄		evening rise	2230 May 22 02:07	9°♄03'02	
evening max el	2229 Jul 04 05:47	7°♄56'30	25°41'27		2230 Jun 01 22:32	0°♄	
desc. node	2229 Jul 04 22:18	8°♄35'08		evening max el	2230 Jun 15 20:25	18°♄39'49	24°13'06
retrograde	2229 Jul 18 06:03	15°♄05'06		desc. node	2230 Jun 21 19:18	23°♄17'45	
evening set	2229 Jul 24 05:48	13°♄40'21		retrograde	2230 Jun 29 16:21	25°♄38'03	
min. Earth dist.	2229 Jul 28 18:02	11°♄01'11	0.58375 AU	evening set	2230 Jul 04 07:25	24°♄50'26	
inferior conj	2229 Jul 31 23:21	8°♄42'56	-4°59'04	min. Earth dist.	2230 Jul 10 07:11	21°♄52'49	0.56555 AU
minimum elong	2229 Aug 01 00:27	8°♄40'57	4°59'01	inferior conj	2230 Jul 12 21:13	20°♄16'01	-4°46'41
morning rise	2229 Aug 08 21:25	4°♄21'59		minimum elong	2230 Jul 12 16:54	20°♄22'47	4°46'12
direct	2229 Aug 11 09:38	4°♄01'56		morning rise	2230 Jul 21 05:04	16°♄15'03	
morning max el	2229 Aug 19 17:20	7°♄59'03	18°43'28	direct	2230 Jul 23 21:31	15°♄55'56	
asc. node	2229 Aug 23 18:05	12°♄38'41		morning max el	2230 Aug 02 13:34	20°♄25'19	19°40'38
	2229 Sep 02 23:12	0°♄			2230 Aug 10 03:00	0°♄	
morning set	2229 Sep 05 02:16	4°♄07'12		asc. node	2230 Aug 10 15:08	0°♄48'21	
				morning set	2230 Aug 20 04:26	18°♄33'49	
superior conj	2229 Sep 13 17:53	20°♄51'22	1°38'10		2230 Aug 25 20:14	0°♄	
minimum elong	2229 Sep 13 20:22	21°♄03'03	1°37'59				
	2229 Sep 18 16:42	0°♄		superior conj	2230 Aug 28 02:39	4°♄31'20	1°45'09
max. Earth dist.	2229 Sep 20 21:00	3°♄53'15	1.39479 AU	minimum elong	2230 Aug 28 03:16	4°♄34'21	1°45'08
evening rise	2229 Sep 24 21:40	10°♄51'23		max. Earth dist.	2230 Sep 03 01:18	15°♄57'35	1.37447 AU
desc. node	2229 Sep 30 21:39	20°♄44'11		evening rise	2230 Sep 06 19:55	22°♄51'21	
	2229 Oct 06 20:31	0°♄			2230 Sep 10 22:08	0°♄	
	2229 Oct 29 15:29	0°♄		desc. node	2230 Sep 17 18:39	11°♄13'59	
evening max el	2229 Oct 30 02:42	0°♄28'07	24°08'10		2230 Sep 30 15:34	0°♄	
retrograde	2229 Nov 10 04:43	6°♄58'19		evening max el	2230 Oct 12 14:43	14°♄07'31	25°23'22
evening set	2229 Nov 15 11:49	4°♄45'43		retrograde	2230 Oct 24 15:57	21°♄03'55	
asc. node	2229 Nov 19 17:18	29°♄58'55		evening set	2230 Oct 30 13:22	18°♄35'52	
	2229 Nov 19 16:59	30°♄		min. Earth dist.	2230 Nov 03 23:34	13°♄41'33	0.67138 AU
min. Earth dist.	2229 Nov 20 05:58	29°♄16'32	0.67667 AU	inferior conj	2230 Nov 05 02:35	12°♄14'14	-0°30'47
inferior conj	2229 Nov 20 22:10	28°♄21'53	0°24'44	minimum elong	2230 Nov 05 03:23	12°♄11'41	0°30'27
minimum elong	2229 Nov 20 21:34	28°♄23'53	0°24'29	asc. node	2230 Nov 06 14:21	10°♄20'47	
morning rise	2229 Nov 26 07:19	22°♄17'19		morning rise	2230 Nov 10 17:37	6°♄17'20	
direct	2229 Nov 30 04:51	20°♄50'53		direct	2230 Nov 14 03:16	5°♄10'32	
morning max el	2229 Dec 08 03:46	25°♄25'28	20°29'35	morning max el	2230 Nov 21 07:40	9°♄13'17	19°25'59
	2229 Dec 12 04:47	0°♄		greatest brilliancy	2230 Dec 04 19:40	27°♄20'56	-0.7m
desc. node	2229 Dec 27 20:56	22°♄08'27			2230 Dec 06 13:41	0°♄	
	2230 Jan 02 01:12	0°♄		desc. node	2230 Dec 14 17:57	12°♄34'20	
morning set	2230 Jan 05 14:26	5°♄28'21		morning set	2230 Dec 15 13:13	13°♄48'56	
max. Earth dist.	2230 Jan 15 03:04	20°♄31'19	1.43354 AU		2230 Dec 25 22:18	0°♄	
	2230 Jan 20 22:12	0°♄		max. Earth dist.	2230 Dec 28 16:56	4°♄22'38	1.44591 AU
superior conj	2230 Jan 21 10:58	0°♄53'00	-2°02'00	superior conj	2231 Jan 01 07:32	10°♄06'43	-1°41'24
minimum elong	2230 Jan 21 07:33	0°♄38'49	2°01'53	minimum elong	2230 Dec 31 23:15	9°♄33'41	1°40'42
evening rise	2230 Feb 02 19:10	22°♄03'07			2231 Jan 13 12:28	0°♄	
	2230 Feb 07 08:00	0°♄		evening rise	2231 Jan 15 12:08	3°♄18'24	
asc. node	2230 Feb 15 16:36	13°♄37'18			2231 Feb 01 11:42	0°♄	
evening max el	2230 Feb 20 03:00	19°♄05'22	18°08'08	asc. node	2231 Feb 02 13:38	1°♄16'38	
retrograde	2230 Feb 26 14:55	22°♄28'55		evening max el	2231 Feb 03 15:27	2°♄25'52	18°23'10
evening set	2230 Mar 01 10:01	21°♄50'22		retrograde	2231 Feb 10 03:19	5°♄57'50	
inferior conj	2230 Mar 07 17:53	16°♄41'54	3°39'25	evening set	2231 Feb 13 03:40	5°♄08'13	
minimum elong	2230 Mar 07 18:53	16°♄39'18	3°39'22		2231 Feb 18 19:03	30°♄	
min. Earth dist.	2230 Mar 10 15:28	13°♄43'40	0.62201 AU	inferior conj	2231 Feb 19 01:48	29°♄40'39	3°41'20
morning rise	2230 Mar 14 02:29	10°♄43'08		minimum elong	2231 Feb 19 01:02	29°♄42'51	3°41'18
direct	2230 Mar 21 00:25	8°♄11'41		min. Earth dist.	2231 Feb 21 08:27	27°♄04'05	0.64087 AU
desc. node	2230 Mar 25 20:05	9°♄16'55		morning rise	2231 Feb 24 21:45	23°♄33'38	
morning max el	2230 Apr 04 02:01	16°♄07'10	27°50'01	direct	2231 Mar 03 18:46	20°♄45'14	
	2230 Apr 15 11:49	0°♄		desc. node	2231 Mar 12 17:09	24°♄27'34	

morning max el	2231 Mar 17 10:48	28° \approx 38'53	27°31'46	morning rise	2232 Feb 08 06:50	6° \approx 46'44	
	2231 Mar 18 18:18	0° \mathbb{H}		direct	2232 Feb 14 20:03	3° \approx 55'34	
	2231 Apr 09 07:20	0° \mathbb{Y}		desc. node	2232 Feb 27 14:12	11° \approx 19'45	
morning set	2231 Apr 21 11:04	22° \mathbb{Y} 08'10		morning max el	2232 Feb 27 20:45	11° \approx 36'08	26°42'00
	2231 Apr 25 08:31	0° \mathbb{B}			2232 Mar 13 13:28	0° \mathbb{H}	
max. Earth dist.	2231 Apr 26 10:16	2° \mathbb{B} 13'33	1.33302 AU		2232 Mar 31 20:51	0° \mathbb{Y}	
				morning set	2232 Apr 03 19:09	5° \mathbb{Y} 28'07	
superior conj	2231 Apr 29 09:42	8° \mathbb{B} 30'27	-0°22'17	max. Earth dist.	2232 Apr 08 01:36	13° \mathbb{Y} 46'55	1.34522 AU
minimum elong	2231 Apr 29 10:49	8° \mathbb{B} 36'23	0°22'03				
asc. node	2231 May 01 12:55	13° \mathbb{B} 04'36		superior conj	2232 Apr 12 09:57	22° \mathbb{Y} 37'37	-0°50'24
evening rise	2231 May 06 13:37	23° \mathbb{B} 49'47		minimum elong	2232 Apr 12 12:31	22° \mathbb{Y} 50'55	0°49'55
	2231 May 09 13:11	0° \mathbb{II}			2232 Apr 15 22:38	0° \mathbb{B}	
evening max el	2231 May 28 10:50	29° \mathbb{II} 07'43	22°36'48	asc. node	2232 Apr 17 09:58	3° \mathbb{B} 05'43	
	2231 May 29 09:07	0° \mathbb{E}		evening rise	2232 Apr 19 23:05	8° \mathbb{B} 25'09	
desc. node	2231 Jun 08 16:20	5° \mathbb{E} 31'21			2232 May 01 13:26	0° \mathbb{II}	
retrograde	2231 Jun 10 14:33	5° \mathbb{E} 39'50		evening max el	2232 May 09 08:52	9° \mathbb{II} 53'10	21°06'57
evening set	2231 Jun 13 18:32	5° \mathbb{E} 17'46		retrograde	2232 May 21 04:17	15° \mathbb{II} 38'55	
min. Earth dist.	2231 Jun 21 18:36	1° \mathbb{E} 48'13	0.55296 AU	evening set	2232 May 23 09:44	15° \mathbb{II} 27'21	
inferior conj	2231 Jun 23 00:38	1° \mathbb{E} 05'26	-3°47'32	desc. node	2232 May 25 13:23	14° \mathbb{II} 55'40	
minimum elong	2231 Jun 22 16:42	1° \mathbb{E} 16'44	3°45'33	inferior conj	2232 Jun 01 18:33	11° \mathbb{II} 28'54	-2°04'41
	2231 Jun 24 23:11	30° \mathbb{R} \mathbb{II}		minimum elong	2232 Jun 01 12:47	11° \mathbb{II} 37'03	2°02'40
morning rise	2231 Jul 01 17:07	27° \mathbb{II} 13'50		min. Earth dist.	2232 Jun 02 06:52	11° \mathbb{II} 11'32	0.54899 AU
direct	2231 Jul 04 15:18	26° \mathbb{II} 54'11		morning rise	2232 Jun 10 15:54	7° \mathbb{II} 27'51	
	2231 Jul 13 07:42	0° \mathbb{E}		direct	2232 Jun 14 00:53	7° \mathbb{II} 03'13	
morning max el	2231 Jul 15 22:31	2° \mathbb{E} 08'57	20°58'39	morning max el	2232 Jun 26 20:48	13° \mathbb{II} 10'12	22°33'22
asc. node	2231 Jul 28 12:11	19° \mathbb{E} 37'08			2232 Jul 09 12:19	0° \mathbb{E}	
	2231 Aug 02 21:25	0° \mathbb{Q}		asc. node	2232 Jul 14 09:14	8° \mathbb{E} 55'21	
morning set	2231 Aug 04 11:47	3° \mathbb{Q} 16'06		morning set	2232 Jul 18 22:13	18° \mathbb{E} 08'01	
					2232 Jul 24 12:05	0° \mathbb{Q}	
superior conj	2231 Aug 11 22:27	18° \mathbb{Q} 44'41	1°44'01	superior conj	2232 Jul 26 01:46	3° \mathbb{Q} 20'38	1°36'19
minimum elong	2231 Aug 11 21:32	18° \mathbb{Q} 40'00	1°44'00	minimum elong	2232 Jul 25 23:52	3° \mathbb{Q} 10'30	1°36'10
max. Earth dist.	2231 Aug 16 10:05	27° \mathbb{Q} 47'45	1.35627 AU	max. Earth dist.	2232 Jul 29 03:37	9° \mathbb{Q} 48'05	1.34164 AU
	2231 Aug 17 13:04	0° \mathbb{P}		evening rise	2232 Aug 02 22:31	19° \mathbb{Q} 27'33	
evening rise	2231 Aug 20 13:44	5° \mathbb{P} 47'30			2232 Aug 08 12:45	0° \mathbb{P}	
	2231 Sep 03 16:49	0° \mathbb{A}		desc. node	2232 Aug 21 12:41	21° \mathbb{P} 19'34	
desc. node	2231 Sep 04 15:40	1° \mathbb{A} 28'15			2232 Aug 27 18:21	0° \mathbb{A}	
evening max el	2231 Sep 25 02:44	27° \mathbb{A} 46'11	26°26'23	evening max el	2232 Sep 06 14:57	11° \mathbb{A} 16'10	27°09'36
	2231 Sep 27 13:38	0° \mathbb{M}		retrograde	2232 Sep 19 23:14	18° \mathbb{A} 34'32	
retrograde	2231 Oct 07 22:20	4° \mathbb{M} 58'40		evening set	2232 Sep 26 21:21	15° \mathbb{A} 51'02	
evening set	2231 Oct 14 09:21	2° \mathbb{M} 19'15		min. Earth dist.	2232 Sep 30 17:38	12° \mathbb{A} 08'48	0.65043 AU
	2231 Oct 16 18:50	30° \mathbb{R} \mathbb{A}		inferior conj	2232 Oct 02 20:24	9° \mathbb{A} 47'00	-2°27'41
min. Earth dist.	2231 Oct 18 12:13	28° \mathbb{A} 01'03	0.66265 AU	minimum elong	2232 Oct 03 00:22	9° \mathbb{A} 35'56	2°26'12
inferior conj	2231 Oct 20 02:44	26° \mathbb{A} 04'11	-1°28'53	morning rise	2232 Oct 09 04:16	4° \mathbb{A} 13'44	
minimum elong	2231 Oct 20 05:06	25° \mathbb{A} 56'59	1°27'54	asc. node	2232 Oct 10 08:29	3° \mathbb{A} 47'26	
asc. node	2231 Oct 24 11:24	21° \mathbb{A} 23'50		direct	2232 Oct 11 20:52	3° \mathbb{A} 35'06	
morning rise	2231 Oct 26 01:24	20° \mathbb{A} 17'37		morning max el	2232 Oct 18 09:04	7° \mathbb{A} 04'41	18°06'13
direct	2231 Oct 29 01:19	19° \mathbb{A} 26'51			2232 Nov 02 21:39	0° \mathbb{M}	
morning max el	2231 Nov 04 18:15	23° \mathbb{A} 08'25	18°37'50	morning set	2232 Nov 05 11:11	4° \mathbb{M} 15'21	
	2231 Nov 10 07:59	0° \mathbb{M}		desc. node	2232 Nov 17 12:00	23° \mathbb{M} 54'27	
morning set	2231 Nov 25 09:35	23° \mathbb{M} 18'44					
	2231 Nov 29 14:40	0° \mathbb{X}		superior conj	2232 Nov 19 16:17	27° \mathbb{M} 23'08	-0°14'39
desc. node	2231 Dec 01 14:59	3° \mathbb{X} 11'07		minimum elong	2232 Nov 19 14:26	27° \mathbb{M} 15'48	0°14'23
				behind sun begin	2232 Nov 19 09:25	26° \mathbb{M} 55'49	
superior conj	2231 Dec 11 10:42	18° \mathbb{X} 38'22	-1°02'46	behind sun end	2232 Nov 19 19:28	27° \mathbb{M} 35'46	
minimum elong	2231 Dec 11 03:02	18° \mathbb{X} 08'16	1°01'51		2232 Nov 21 07:48	0° \mathbb{X}	
max. Earth dist.	2231 Dec 11 10:45	18° \mathbb{X} 38'33	1.45137 AU	max. Earth dist.	2232 Nov 23 05:34	3° \mathbb{X} 00'47	1.44947 AU
	2231 Dec 18 16:04	0° \mathbb{Z}		evening rise	2232 Dec 06 01:59	23° \mathbb{X} 03'12	
evening rise	2231 Dec 27 05:52	13° \mathbb{Z} 36'12			2232 Dec 10 13:53	0° \mathbb{Z}	
greatest brilliancy	2232 Jan 04 12:45	26° \mathbb{Z} 48'46	-0.8m	greatest brilliancy	2232 Dec 19 08:01	13° \mathbb{Z} 20'51	-0.7m
	2232 Jan 06 13:23	0° $\mathbb{\approx}$		evening max el	2232 Dec 31 08:23	29° \mathbb{Z} 22'28	19°45'38
evening max el	2232 Jan 18 01:55	15° $\mathbb{\approx}$ 52'55	18°56'10		2232 Dec 31 23:22	0° $\mathbb{\approx}$	
asc. node	2232 Jan 20 10:41	17° $\mathbb{\approx}$ 59'19		asc. node	2233 Jan 06 07:46	3° $\mathbb{\approx}$ 30'07	
retrograde	2232 Jan 24 21:44	19° $\mathbb{\approx}$ 44'13		retrograde	2233 Jan 07 19:02	3° $\mathbb{\approx}$ 42'01	
evening set	2232 Jan 28 04:10	18° $\mathbb{\approx}$ 42'32		evening set	2233 Jan 11 09:01	2° $\mathbb{\approx}$ 26'57	
inferior conj	2232 Feb 02 19:39	12° $\mathbb{\approx}$ 58'03	3°27'20		2233 Jan 14 00:31	30° \mathbb{R} \mathbb{Z}	
minimum elong	2232 Feb 02 17:41	13° $\mathbb{\approx}$ 04'11	3°27'02	inferior conj	2233 Jan 16 20:15	26° \mathbb{Z} 28'00	3°01'22
min. Earth dist.	2232 Feb 04 10:53	10° $\mathbb{\approx}$ 55'37	0.65615 AU				

minimum elong	2233 Jan 16 17:43	26°♄36'25	3°00'45	asc. node	2233 Dec 24 04:48	17°♄35'11	
min. Earth dist.	2233 Jan 17 21:09	25°♄05'35	0.66739 AU	evening set	2233 Dec 26 16:08	16°♄17'38	
morning rise	2233 Jan 22 02:11	20°♄14'55		inferior conj	2234 Jan 01 01:08	10°♄07'04	2°26'08
direct	2233 Jan 28 03:14	17°♄33'14		minimum elong	2233 Dec 31 22:34	10°♄15'51	2°25'20
morning max el	2233 Feb 09 05:44	24°♄46'01	25°29'22	min. Earth dist.	2234 Jan 01 13:11	9°♄25'45	0.67463 AU
desc. node	2233 Feb 13 11:14	29°♄23'59		morning rise	2234 Jan 06 04:49	3°♄54'01	
	2233 Feb 13 23:27	0°♄		direct	2234 Jan 11 15:20	1°♄30'16	
	2233 Mar 07 00:33	0°♄		morning max el	2234 Jan 22 14:02	8°♄01'50	24°03'51
morning set	2233 Mar 17 11:45	17°♄58'16		desc. node	2234 Jan 31 08:16	18°♄19'26	
max. Earth dist.	2233 Mar 21 05:09	24°♄52'19	1.36191 AU		2234 Feb 08 18:54	0°♄	
	2233 Mar 23 21:26	0°♄		morning set	2234 Feb 27 07:00	29°♄22'02	
					2234 Feb 27 15:47	0°♄	
superior conj	2233 Mar 27 01:40	6°♄15'07	-1°17'35	max. Earth dist.	2234 Mar 03 01:12	5°♄58'07	1.38216 AU
minimum elong	2233 Mar 27 05:30	6°♄34'11	1°16'58				
evening rise	2233 Apr 04 04:21	22°♄42'41		superior conj	2234 Mar 10 05:18	19°♄13'02	-1°41'31
asc. node	2233 Apr 04 07:03	22°♄56'20		minimum elong	2234 Mar 10 09:39	19°♄33'44	1°41'02
	2233 Apr 07 20:09	0°♄			2234 Mar 15 18:41	0°♄	
evening max el	2233 Apr 21 18:33	21°♄15'47	19°52'41	evening rise	2234 Mar 19 02:53	6°♄34'51	
retrograde	2233 May 01 20:14	26°♄07'49		asc. node	2234 Mar 22 04:06	12°♄31'05	
evening set	2233 May 03 20:33	25°♄57'00			2234 Apr 01 16:59	0°♄	
desc. node	2233 May 12 10:25	22°♄06'52		evening max el	2234 Apr 04 15:18	3°♄17'16	18°57'41
inferior conj	2233 May 12 17:18	21°♄56'20	-0°05'01	retrograde	2234 Apr 13 02:51	7°♄24'32	
minimum elong	2233 May 12 17:05	21°♄56'41	0°04'56	evening set	2234 Apr 15 07:14	7°♄09'16	
transit middle	2233 May 12 17:05	21°♄56'41	0°04'56	inferior conj	2234 Apr 23 08:50	2°♄53'23	1°38'35
transit begin	2233 May 12 13:18	22°♄02'28		minimum elong	2234 Apr 23 12:17	2°♄47'16	1°37'28
transit end	2233 May 12 20:51	21°♄50'54		min. Earth dist.	2234 Apr 26 12:17	0°♄41'05	0.56887 AU
min. Earth dist.	2233 May 14 20:33	20°♄38'10	0.55471 AU		2234 Apr 27 13:16	30°♄	
morning rise	2233 May 21 11:23	17°♄28'16		desc. node	2234 Apr 29 07:28	28°♄56'56	
direct	2233 May 25 16:02	16°♄49'28		morning rise	2234 May 01 14:15	27°♄50'53	
morning max el	2233 Jun 08 12:13	23°♄42'11	24°15'35	direct	2234 May 06 19:47	26°♄45'50	
	2233 Jun 14 04:48	0°♄			2234 May 16 01:20	0°♄	
asc. node	2233 Jul 01 06:17	28°♄35'17		morning max el	2234 May 21 02:54	4°♄10'08	25°51'03
	2233 Jul 01 22:45	0°♄			2234 Jun 08 16:51	0°♄	
morning set	2233 Jul 03 10:02	3°♄04'29		morning set	2234 Jun 17 21:31	17°♄59'01	
				asc. node	2234 Jun 18 03:20	18°♄29'45	
superior conj	2233 Jul 10 10:00	18°♄10'56	1°23'15		2234 Jun 23 10:48	0°♄	
minimum elong	2233 Jul 10 07:38	17°♄58'07	1°22'57	superior conj	2234 Jun 24 20:54	3°♄07'18	1°05'44
max. Earth dist.	2233 Jul 12 06:19	22°♄10'04	1.33105 AU	minimum elong	2234 Jun 24 18:36	2°♄54'36	1°05'20
	2233 Jul 15 23:18	0°♄		max. Earth dist.	2234 Jun 25 15:31	4°♄49'20	1.32445 AU
evening rise	2233 Jul 17 18:13	3°♄39'59		evening rise	2234 Jul 01 21:27	18°♄13'18	
	2233 Aug 01 06:40	0°♄			2234 Jul 07 19:37	0°♄	
desc. node	2233 Aug 08 09:43	10°♄38'19		desc. node	2234 Jul 26 06:45	29°♄09'52	
evening max el	2233 Aug 20 01:55	24°♄26'05	27°26'05		2234 Jul 26 22:54	0°♄	
	2233 Aug 27 11:50	0°♄		evening max el	2234 Aug 02 08:58	7°♄00'57	27°10'51
retrograde	2233 Sep 02 17:53	1°♄43'22		retrograde	2234 Aug 16 05:27	14°♄15'06	
	2233 Sep 08 13:43	30°♄		evening set	2234 Aug 23 08:20	11°♄56'28	
evening set	2233 Sep 09 22:21	29°♄06'03		min. Earth dist.	2234 Aug 26 23:11	9°♄11'30	0.61611 AU
min. Earth dist.	2233 Sep 13 13:46	25°♄56'40	0.63480 AU	inferior conj	2234 Aug 30 01:22	6°♄26'20	-4°14'06
inferior conj	2233 Sep 16 05:01	23°♄17'20	-3°24'16	minimum elong	2234 Aug 30 06:40	6°♄14'29	4°12'57
minimum elong	2233 Sep 16 10:10	23°♄04'19	3°22'41	morning rise	2234 Sep 06 06:37	1°♄29'55	
morning rise	2233 Sep 22 23:14	18°♄00'42		direct	2234 Sep 08 16:37	1°♄05'23	
direct	2233 Sep 25 11:10	17°♄30'35		asc. node	2234 Sep 14 02:32	3°♄12'58	
asc. node	2233 Sep 27 05:31	17°♄45'56		morning max el	2234 Sep 15 16:01	4°♄35'15	17°56'23
morning max el	2233 Oct 02 01:20	20°♄56'12	17°52'03	morning set	2234 Oct 01 13:08	29°♄33'25	
	2233 Oct 08 21:34	0°♄			2234 Oct 01 18:58	0°♄	
morning set	2233 Oct 18 14:31	16°♄26'49					
	2233 Oct 26 11:34	0°♄		superior conj	2234 Oct 12 00:38	18°♄20'31	1°06'20
superior conj	2233 Oct 30 18:52	7°♄11'42	0°30'55	minimum elong	2234 Oct 12 05:09	18°♄40'09	1°05'47
minimum elong	2233 Oct 30 21:59	7°♄24'36	0°30'30		2234 Oct 18 21:41	0°♄	
desc. node	2233 Nov 04 09:02	14°♄41'20		max. Earth dist.	2234 Oct 19 12:04	0°♄59'19	1.42559 AU
max. Earth dist.	2233 Nov 05 22:51	17°♄13'21	1.44055 AU	desc. node	2234 Oct 22 06:03	5°♄28'23	
	2233 Nov 14 01:43	0°♄		evening rise	2234 Oct 26 00:45	11°♄30'26	
evening rise	2233 Nov 15 10:45	2°♄07'33			2234 Nov 07 04:07	0°♄	
	2233 Dec 04 04:20	0°♄		evening max el	2234 Nov 27 05:05	26°♄24'36	22°02'54
evening max el	2233 Dec 14 09:33	12°♄53'00	20°49'03		2234 Dec 01 08:13	0°♄	
retrograde	2233 Dec 22 16:51	17°♄47'42		retrograde	2234 Dec 06 13:24	1°♄58'16	

evening set	2234 Dec 10 23:49	0° Z 11'57		asc. node	2235 Nov 27 22:49	11° Z 18'08	
asc. node	2234 Dec 11 01:49	0° Z 07'52		min. Earth dist.	2235 Nov 30 05:25	8° Z 18'24	0.67811 AU
	2234 Dec 11 05:34	30° R Z		inferior conj	2235 Nov 30 15:38	7° Z 43'23	0°54'55
inferior conj	2234 Dec 16 08:13	23° Z 53'00	1°43'31	minimum elong	2235 Nov 30 14:23	7° Z 47'41	0°54'25
minimum elong	2234 Dec 16 06:06	24° Z 00'19	1°42'45	morning rise	2235 Dec 05 22:19	1° Z 35'38	
min. Earth dist.	2234 Dec 16 08:43	23° Z 51'14	0.67811 AU		2235 Dec 09 09:10	30° R M	
morning rise	2234 Dec 21 12:15	17° Z 41'41		direct	2235 Dec 10 03:19	29° M 56'57	
direct	2234 Dec 26 07:40	15° Z 40'08			2235 Dec 10 21:48	0° Z	
morning max el	2235 Jan 05 00:25	21° Z 24'02	22°35'27	morning max el	2235 Dec 18 16:13	4° Z 55'02	21°12'26
	2235 Jan 12 09:19	0° Z		desc. node	2236 Jan 05 02:18	27° Z 50'04	
desc. node	2235 Jan 18 05:17	7° Z 51'40			2236 Jan 06 13:29	0° Z	
	2235 Feb 02 02:03	0° \approx		morning set	2236 Jan 18 10:28	18° Z 08'46	
morning set	2235 Feb 07 22:57	9° \approx 25'10			2236 Jan 25 19:54	0° \approx	
max. Earth dist.	2235 Feb 12 21:27	17° \approx 39'50	1.40371 AU	max. Earth dist.	2236 Jan 25 23:17	0° \approx 13'48	1.42374 AU
	2235 Feb 19 22:36	0° H					
				superior conj	2236 Feb 02 05:31	12° \approx 23'23	-2°05'19
superior conj	2235 Feb 20 16:21	1° H 20'05	-1°58'54	minimum elong	2236 Feb 02 05:13	12° \approx 22'08	2°05'18
minimum elong	2235 Feb 20 19:37	1° H 34'54	1°58'44		2236 Feb 12 05:12	0° H	
evening rise	2235 Mar 02 15:34	19° H 53'59		evening rise	2236 Feb 13 14:36	2° H 30'41	
	2235 Mar 08 01:50	0° Y		asc. node	2236 Feb 23 22:10	20° H 28'01	
asc. node	2235 Mar 09 01:08	1° Y 44'14		evening max el	2236 Mar 01 06:51	28° H 50'03	18°07'59
evening max el	2235 Mar 18 20:29	15° Y 51'48	18°22'53		2236 Mar 02 13:52	0° Y	
retrograde	2235 Mar 26 04:42	19° Y 29'58		retrograde	2236 Mar 07 23:16	2° Y 14'53	
evening set	2235 Mar 28 15:02	19° Y 07'08		evening set	2236 Mar 10 15:13	1° Y 42'33	
inferior conj	2235 Apr 04 21:42	14° Y 31'10	2°49'46		2236 Mar 13 13:42	30° R H	
minimum elong	2235 Apr 05 01:28	14° Y 23'22	2°48'56	inferior conj	2236 Mar 17 06:18	26° H 45'57	3°28'55
min. Earth dist.	2235 Apr 08 08:15	11° Y 41'43	0.58842 AU	minimum elong	2236 Mar 17 08:27	26° H 40'47	3°28'40
morning rise	2235 Apr 12 09:09	8° Y 58'56		min. Earth dist.	2236 Mar 20 11:01	23° H 43'36	0.60994 AU
desc. node	2235 Apr 16 04:28	7° Y 33'10		morning rise	2236 Mar 23 23:51	20° H 54'09	
direct	2235 Apr 18 13:08	7° Y 18'23		direct	2236 Mar 30 18:07	18° H 38'21	
morning max el	2235 May 02 22:11	15° Y 02'07	27°04'15	desc. node	2236 Apr 02 01:30	18° H 53'15	
	2235 May 15 00:00	0° B		morning max el	2236 Apr 13 23:41	26° H 32'33	27°44'04
	2235 May 31 22:56	0° II			2236 Apr 17 05:47	0° Y	
morning set	2235 Jun 02 07:00	2° II 46'17			2236 May 07 13:03	0° B	
asc. node	2235 Jun 05 00:22	8° II 33'45		morning set	2236 May 16 12:41	17° B 19'37	
				asc. node	2236 May 21 21:26	28° B 42'21	
superior conj	2235 Jun 09 08:41	18° II 03'52	0°44'30		2236 May 22 11:42	0° II	
minimum elong	2235 Jun 09 06:53	17° II 53'54	0°44'08	max. Earth dist.	2236 May 22 14:47	0° II 16'47	1.32280 AU
max. Earth dist.	2235 Jun 09 03:39	17° II 36'04	1.32172 AU				
	2235 Jun 14 19:52	0° E		superior conj	2236 May 23 19:40	2° II 54'35	0°20'14
evening rise	2235 Jun 16 05:36	2° E 59'25		minimum elong	2236 May 23 18:45	2° II 49'34	0°20'02
	2235 Jun 30 17:43	0° Ω		evening rise	2236 May 30 16:33	17° II 50'52	
desc. node	2235 Jul 13 03:45	16° Ω 34'49			2236 Jun 05 16:13	0° E	
evening max el	2235 Jul 15 09:29	18° Ω 50'12	26°22'29	evening max el	2236 Jun 26 02:57	29° E 53'51	25°05'50
retrograde	2235 Jul 29 09:00	26° Ω 01'47			2236 Jun 26 05:32	0° Ω	
evening set	2235 Aug 04 22:41	24° Ω 14'30		desc. node	2236 Jun 29 00:45	2° Ω 26'27	
min. Earth dist.	2235 Aug 08 22:31	21° Ω 38'45	0.59556 AU	retrograde	2236 Jul 10 02:45	7° Ω 00'14	
inferior conj	2235 Aug 12 05:57	19° Ω 04'40	-4°49'34	evening set	2236 Jul 15 13:36	5° Ω 51'54	
minimum elong	2235 Aug 12 09:21	18° Ω 58'02	4°49'12	min. Earth dist.	2236 Jul 20 14:37	3° Ω 06'38	0.57549 AU
morning rise	2235 Aug 19 22:07	14° Ω 31'02		inferior conj	2236 Jul 23 15:33	1° Ω 03'42	-4°58'55
direct	2235 Aug 22 08:48	14° Ω 09'54		minimum elong	2236 Jul 23 14:28	1° Ω 05'32	4°58'53
morning max el	2235 Aug 30 02:00	17° Ω 53'36	18°20'21		2236 Jul 25 05:46	30° R E	
asc. node	2235 Aug 31 23:34	19° Ω 54'49		morning rise	2236 Jul 31 17:55	26° E 52'12	
	2235 Sep 07 19:53	0° M		direct	2236 Aug 03 07:33	26° E 32'50	
morning set	2235 Sep 15 01:32	13° M 19'18			2236 Aug 11 09:24	0° Ω	
	2235 Sep 23 21:43	0° $\underline{\Omega}$		morning max el	2236 Aug 12 04:10	0° Ω 42'12	19°05'09
				asc. node	2236 Aug 17 20:37	7° Ω 36'42	
superior conj	2235 Sep 24 06:32	0° $\underline{\Omega}$ 40'30	1°29'46	morning set	2236 Aug 28 23:38	27° Ω 33'47	
minimum elong	2235 Sep 24 10:03	0° $\underline{\Omega}$ 56'34	1°29'26		2236 Aug 30 05:09	0° M	
max. Earth dist.	2235 Oct 01 19:32	14° $\underline{\Omega}$ 03'14	1.40655 AU				
evening rise	2235 Oct 06 09:50	21° $\underline{\Omega}$ 46'36		superior conj	2236 Sep 06 07:04	13° M 55'58	1°42'13
desc. node	2235 Oct 09 03:04	26° $\underline{\Omega}$ 12'00		minimum elong	2236 Sep 06 08:44	14° M 04'00	1°42'08
	2235 Oct 11 12:18	0° M		max. Earth dist.	2236 Sep 12 23:14	26° M 24'08	1.38598 AU
	2235 Nov 01 06:38	0° Z			2236 Sep 14 23:34	0° $\underline{\Omega}$	
evening max el	2235 Nov 09 19:59	9° Z 58'10	23°22'21	evening rise	2236 Sep 16 19:03	3° $\underline{\Omega}$ 10'19	
retrograde	2235 Nov 20 07:13	16° Z 10'03		desc. node	2236 Sep 25 00:05	16° $\underline{\Omega}$ 48'25	
evening set	2235 Nov 25 06:24	14° Z 06'51			2236 Oct 03 16:06	0° M	

evening max el	2236 Oct 22 08:32	23° \mathbb{M} 36'10	24°41'11	max. Earth dist.	2237 Aug 26 04:48	8° \mathbb{M} 19'21	1.36640 AU
	2236 Oct 31 15:43	0° \mathbb{M}		evening rise	2237 Aug 30 02:16	15° \mathbb{M} 36'09	
retrograde	2236 Nov 02 21:16	0° \mathbb{M} 19'27			2237 Sep 07 09:17	0° \mathbb{M}	
	2236 Nov 05 00:09	30° \mathbb{M}		desc. node	2237 Sep 11 21:06	7° \mathbb{M} 12'24	
evening set	2236 Nov 08 10:19	28° \mathbb{M} 00'04			2237 Sep 28 05:36	0° \mathbb{M}	
min. Earth dist.	2236 Nov 13 00:58	22° \mathbb{M} 45'17	0.67479 AU	evening max el	2237 Oct 04 20:40	7° \mathbb{M} 16'40	25°52'09
inferior conj	2236 Nov 13 21:42	21° \mathbb{M} 36'22	0°01'37	retrograde	2237 Oct 17 06:29	14° \mathbb{M} 20'53	
minimum elong	2236 Nov 13 21:40	21° \mathbb{M} 36'30	0°01'35	evening set	2237 Oct 23 09:45	11° \mathbb{M} 47'41	
transit middle	2236 Nov 13 21:40	21° \mathbb{M} 36'30	0°01'35	min. Earth dist.	2237 Oct 27 16:53	7° \mathbb{M} 08'20	0.66813 AU
transit begin	2236 Nov 13 18:56	21° \mathbb{M} 45'37		inferior conj	2237 Oct 29 00:35	5° \mathbb{M} 28'19	-0°55'11
transit end	2236 Nov 14 00:24	21° \mathbb{M} 27'24		minimum elong	2237 Oct 29 02:02	5° \mathbb{M} 23'45	0°54'34
asc. node	2236 Nov 13 19:50	21° \mathbb{M} 42'36		asc. node	2237 Oct 31 16:53	2° \mathbb{M} 15'36	
morning rise	2236 Nov 19 09:07	15° \mathbb{M} 34'32			2237 Nov 03 03:49	30° \mathbb{R} \mathbb{M}	
direct	2236 Nov 23 01:16	14° \mathbb{M} 16'55		morning rise	2237 Nov 03 18:38	29° \mathbb{M} 35'08	
morning max el	2236 Nov 30 15:36	18° \mathbb{M} 37'05	20°00'40	direct	2237 Nov 06 23:55	28° \mathbb{M} 35'30	
	2236 Dec 09 17:43	0° \mathbb{M}			2237 Nov 11 00:29	0° \mathbb{M}	
desc. node	2236 Dec 21 23:21	18° \mathbb{M} 07'45		morning max el	2237 Nov 13 22:31	2° \mathbb{M} 28'02	19°03'24
morning set	2236 Dec 27 06:38	26° \mathbb{M} 16'03			2237 Dec 03 07:34	0° \mathbb{M}	
	2236 Dec 29 16:27	0° \mathbb{M}		morning set	2237 Dec 06 12:34	5° \mathbb{M} 00'27	
max. Earth dist.	2237 Jan 07 08:44	13° \mathbb{M} 39'30	1.43958 AU	desc. node	2237 Dec 08 20:24	8° \mathbb{M} 38'37	
				max. Earth dist.	2237 Dec 21 00:38	27° \mathbb{M} 43'22	1.44919 AU
superior conj	2237 Jan 12 16:51	22° \mathbb{M} 16'14	-1°55'39		2237 Dec 22 11:18	0° \mathbb{M}	
minimum elong	2237 Jan 12 11:03	21° \mathbb{M} 52'36	1°55'19				
	2237 Jan 17 09:23	0° \mathbb{M}		superior conj	2237 Dec 23 04:14	1° \mathbb{M} 06'50	-1°26'53
evening rise	2237 Jan 25 19:43	14° \mathbb{M} 17'22		minimum elong	2237 Dec 22 19:19	0° \mathbb{M} 31'39	1°26'00
	2237 Feb 04 01:47	0° \mathbb{M}		evening rise	2238 Jan 07 02:56	25° \mathbb{M} 07'45	
asc. node	2237 Feb 09 19:11	8° \mathbb{M} 33'56			2238 Jan 10 02:20	0° \mathbb{M}	
evening max el	2237 Feb 12 19:25	12° \mathbb{M} 04'40	18°12'19	evening max el	2238 Jan 27 07:24	25° \mathbb{M} 28'55	18°35'09
retrograde	2237 Feb 19 06:15	15° \mathbb{M} 30'10		asc. node	2238 Jan 27 16:12	25° \mathbb{M} 50'53	
evening set	2237 Feb 22 03:32	14° \mathbb{M} 47'06		retrograde	2238 Feb 02 21:33	29° \mathbb{M} 07'27	
inferior conj	2237 Feb 28 06:52	9° \mathbb{M} 30'35	3°42'28	evening set	2238 Feb 06 00:27	28° \mathbb{M} 12'42	
minimum elong	2237 Feb 28 07:04	9° \mathbb{M} 30'03	3°42'28	inferior conj	2238 Feb 11 19:25	22° \mathbb{M} 37'46	3°37'03
min. Earth dist.	2237 Mar 02 22:30	6° \mathbb{M} 39'12	0.63045 AU	minimum elong	2238 Feb 11 18:04	22° \mathbb{M} 41'48	3°36'55
morning rise	2237 Mar 06 09:36	3° \mathbb{M} 27'43		min. Earth dist.	2238 Feb 13 19:28	20° \mathbb{M} 14'44	0.64790 AU
direct	2237 Mar 13 08:18	0° \mathbb{M} 46'52		morning rise	2238 Feb 17 11:13	16° \mathbb{M} 28'52	
desc. node	2237 Mar 19 22:33	2° \mathbb{M} 49'08		direct	2238 Feb 24 05:46	13° \mathbb{M} 37'34	
morning max el	2237 Mar 27 06:18	8° \mathbb{M} 43'07	27°46'27	desc. node	2238 Mar 06 19:37	18° \mathbb{M} 46'59	
	2237 Apr 12 17:30	0° \mathbb{M}		morning max el	2238 Mar 09 15:42	21° \mathbb{M} 26'31	27°14'00
	2237 Apr 29 18:01	0° \mathbb{M}			2238 Mar 17 02:45	0° \mathbb{M}	
morning set	2237 Apr 30 12:21	1° \mathbb{M} 31'38			2238 Apr 05 21:06	0° \mathbb{M}	
max. Earth dist.	2237 May 05 21:05	12° \mathbb{M} 38'38	1.32800 AU	morning set	2238 Apr 14 03:10	15° \mathbb{M} 13'45	
				max. Earth dist.	2238 Apr 18 18:53	24° \mathbb{M} 31'43	1.33763 AU
superior conj	2237 May 08 04:05	17° \mathbb{M} 33'25	-0°06'20		2238 Apr 21 10:13	0° \mathbb{M}	
minimum elong	2237 May 08 04:23	17° \mathbb{M} 35'04	0°06'16				
behind sun begin	2237 May 07 23:32	17° \mathbb{M} 08'53		superior conj	2238 Apr 22 08:00	1° \mathbb{M} 54'27	-0°34'13
behind sun end	2237 May 08 09:14	18° \mathbb{M} 01'16		minimum elong	2238 Apr 22 09:44	2° \mathbb{M} 03'33	0°33'51
asc. node	2237 May 08 18:29	18° \mathbb{M} 51'14		asc. node	2238 Apr 25 15:32	8° \mathbb{M} 56'34	
	2237 May 13 22:09	0° \mathbb{M}		evening rise	2238 Apr 29 15:19	17° \mathbb{M} 24'07	
evening rise	2237 May 15 04:23	2° \mathbb{M} 41'04			2238 May 05 22:20	0° \mathbb{M}	
	2237 May 30 03:03	0° \mathbb{M}		evening max el	2238 May 20 09:45	20° \mathbb{M} 59'35	21°57'10
evening max el	2237 Jun 07 16:45	10° \mathbb{M} 27'10	23°32'21	retrograde	2238 Jun 02 01:10	27° \mathbb{M} 13'19	
desc. node	2237 Jun 15 21:47	16° \mathbb{M} 09'49		desc. node	2238 Jun 02 18:49	27° \mathbb{M} 12'05	
retrograde	2237 Jun 21 08:00	17° \mathbb{M} 16'37		evening set	2238 Jun 04 17:37	26° \mathbb{M} 57'14	
evening set	2237 Jun 25 07:13	16° \mathbb{M} 42'06		min. Earth dist.	2238 Jun 13 14:25	23° \mathbb{M} 10'23	0.55012 AU
min. Earth dist.	2237 Jul 02 02:58	13° \mathbb{M} 32'18	0.55923 AU	inferior conj	2238 Jun 14 02:56	22° \mathbb{M} 52'52	-3°08'13
inferior conj	2237 Jul 04 05:04	12° \mathbb{M} 17'35	-4°27'45	minimum elong	2238 Jun 13 19:11	23° \mathbb{M} 03'44	3°05'53
minimum elong	2237 Jul 03 22:41	12° \mathbb{M} 27'08	4°26'39	morning rise	2238 Jun 22 22:11	18° \mathbb{M} 59'51	
morning rise	2237 Jul 12 16:43	8° \mathbb{M} 22'03		direct	2238 Jun 26 00:21	18° \mathbb{M} 38'41	
direct	2237 Jul 15 11:14	8° \mathbb{M} 02'59		morning max el	2238 Jul 07 23:44	24° \mathbb{M} 15'12	21°37'17
morning max el	2237 Jul 25 19:43	12° \mathbb{M} 50'56	20°11'22		2238 Jul 13 03:38	0° \mathbb{M}	
asc. node	2237 Aug 04 17:41	26° \mathbb{M} 04'26		asc. node	2238 Jul 22 14:47	15° \mathbb{M} 06'59	
	2237 Aug 06 23:03	0° \mathbb{M}		morning set	2238 Jul 28 13:17	26° \mathbb{M} 55'14	
morning set	2237 Aug 13 04:21	12° \mathbb{M} 07'55			2238 Jul 30 00:40	0° \mathbb{M}	
superior conj	2237 Aug 20 21:02	27° \mathbb{M} 51'31	1°45'33	superior conj	2238 Aug 04 20:25	12° \mathbb{M} 15'27	1°41'28
minimum elong	2237 Aug 20 20:56	27° \mathbb{M} 51'03	1°45'33	minimum elong	2238 Aug 04 19:01	12° \mathbb{M} 08'09	1°41'24
	2237 Aug 21 22:40	0° \mathbb{M}		max. Earth dist.	2238 Aug 08 17:25	20° \mathbb{M} 13'12	1.34963 AU

evening rise	2238 Aug 13 03:02	28° Ω 52'30		minimum elong	2239 Jul 19 23:56	26° Ω 46'22	1°31'09
	2238 Aug 13 17:12	0° \mathbb{M}			2239 Jul 21 12:13	0° Ω	
desc. node	2238 Aug 29 18:07	27° \mathbb{M} 17'51		max. Earth dist.	2239 Jul 22 15:04	2° Ω 22'04	1.33660 AU
	2238 Aug 31 13:39	0° $\underline{\Omega}$		evening rise	2239 Jul 27 16:52	12° Ω 46'50	
evening max el	2238 Sep 17 09:02	20° $\underline{\Omega}$ 53'19	26°47'32		2239 Aug 05 22:49	0° \mathbb{M}	
retrograde	2238 Sep 30 10:22	28° $\underline{\Omega}$ 08'21		desc. node	2239 Aug 16 15:10	16° \mathbb{M} 56'37	
evening set	2238 Oct 07 02:38	25° $\underline{\Omega}$ 26'18			2239 Aug 26 18:29	0° $\underline{\Omega}$	
min. Earth dist.	2238 Oct 11 02:41	21° $\underline{\Omega}$ 23'33	0.65799 AU	evening max el	2239 Aug 30 20:50	4° $\underline{\Omega}$ 15'44	27°20'09
inferior conj	2238 Oct 12 22:16	19° $\underline{\Omega}$ 15'39	-1°53'51	retrograde	2239 Sep 13 08:37	11° $\underline{\Omega}$ 34'10	
minimum elong	2238 Oct 13 01:20	19° $\underline{\Omega}$ 06'39	1°52'38	evening set	2239 Sep 20 10:23	8° $\underline{\Omega}$ 51'33	
asc. node	2238 Oct 18 13:58	13° $\underline{\Omega}$ 49'20		min. Earth dist.	2239 Sep 24 04:11	5° $\underline{\Omega}$ 24'19	0.64423 AU
morning rise	2238 Oct 19 00:41	13° $\underline{\Omega}$ 34'18		inferior conj	2239 Sep 26 12:26	2° $\underline{\Omega}$ 53'47	-2°52'11
direct	2238 Oct 21 21:18	12° $\underline{\Omega}$ 48'59		minimum elong	2239 Sep 26 16:59	2° $\underline{\Omega}$ 41'35	2°50'35
morning max el	2238 Oct 28 11:11	16° $\underline{\Omega}$ 23'58	18°22'14		2239 Sep 29 09:04	30° \mathbb{R} \mathbb{M}	
	2238 Nov 07 11:15	0° \mathbb{M}		morning rise	2239 Oct 03 00:36	27° \mathbb{M} 27'28	
morning set	2238 Nov 16 21:21	15° \mathbb{M} 07'35		asc. node	2239 Oct 05 11:02	26° \mathbb{M} 52'59	
desc. node	2238 Nov 25 17:25	29° \mathbb{M} 18'19		direct	2239 Oct 05 14:56	26° \mathbb{M} 52'51	
	2238 Nov 26 03:54	0° \mathbb{X}			2239 Oct 11 19:06	0° $\underline{\Omega}$	
				morning max el	2239 Oct 12 03:03	0° $\underline{\Omega}$ 19'28	17°58'03
superior conj	2238 Dec 02 05:34	9° \mathbb{X} 35'35	-0°42'45	morning set	2239 Oct 29 10:41	26° $\underline{\Omega}$ 38'40	
minimum elong	2238 Dec 02 00:04	9° \mathbb{X} 13'58	0°42'01		2239 Oct 31 10:19	0° \mathbb{M}	
max. Earth dist.	2238 Dec 03 19:47	12° \mathbb{X} 05'47	1.45154 AU				
	2238 Dec 15 05:52	0° \mathbb{Z}		superior conj	2239 Nov 11 18:35	18° \mathbb{M} 43'53	0°05'37
evening rise	2238 Dec 18 10:49	5° \mathbb{Z} 01'56		minimum elong	2239 Nov 11 19:14	18° \mathbb{M} 46'33	0°05'32
greatest brilliancy	2238 Dec 29 01:26	21° \mathbb{Z} 37'37	-0.8m	behind sun begin	2239 Nov 11 09:28	18° \mathbb{M} 07'07	
	2239 Jan 03 15:25	0° \approx		behind sun end	2239 Nov 12 05:01	19° \mathbb{M} 25'54	
evening max el	2239 Jan 10 16:21	8° \approx 57'01	19°15'20	desc. node	2239 Nov 12 14:26	20° \mathbb{M} 03'46	
asc. node	2239 Jan 14 13:15	12° \approx 04'39		max. Earth dist.	2239 Nov 16 14:36	26° \mathbb{M} 27'24	1.44648 AU
retrograde	2239 Jan 17 17:33	12° \approx 59'12			2239 Nov 18 20:28	0° \mathbb{X}	
evening set	2239 Jan 21 03:06	11° \approx 51'47		evening rise	2239 Nov 28 00:27	14° \mathbb{X} 15'25	
inferior conj	2239 Jan 26 16:28	6° \approx 00'37	3°17'34		2239 Dec 08 08:21	0° \mathbb{Z}	
minimum elong	2239 Jan 26 14:11	6° \approx 07'56	3°17'08	greatest brilliancy	2239 Dec 12 09:16	6° \mathbb{Z} 00'40	-0.6m
min. Earth dist.	2239 Jan 28 01:19	4° \approx 15'10	0.66143 AU	evening max el	2239 Dec 24 20:35	22° \mathbb{Z} 26'54	20°11'01
	2239 Jan 31 19:57	30° \mathbb{R} \mathbb{Z}		asc. node	2240 Jan 01 10:18	27° \mathbb{Z} 00'51	
morning rise	2239 Feb 01 01:02	29° \mathbb{Z} 48'27		retrograde	2240 Jan 01 15:28	27° \mathbb{Z} 01'06	
direct	2239 Feb 07 09:25	27° \mathbb{Z} 00'22		evening set	2240 Jan 05 09:09	25° \mathbb{Z} 39'48	
	2239 Feb 14 21:54	0° \approx		inferior conj	2240 Jan 10 19:12	19° \mathbb{Z} 35'14	2°47'25
morning max el	2239 Feb 20 01:25	4° \approx 30'18	26°13'25	minimum elong	2240 Jan 10 16:35	19° \mathbb{Z} 44'03	2°46'43
desc. node	2239 Feb 21 16:39	6° \approx 12'35		min. Earth dist.	2240 Jan 11 14:23	18° \mathbb{Z} 30'32	0.67091 AU
	2239 Mar 11 13:28	0° \mathbb{X}		morning rise	2240 Jan 15 23:49	13° \mathbb{Z} 21'48	
morning set	2239 Mar 28 05:14	28° \mathbb{X} 13'47		direct	2240 Jan 21 18:42	10° \mathbb{Z} 47'12	
	2239 Mar 29 03:53	0° \mathbb{Y}		morning max el	2240 Feb 02 10:12	17° \mathbb{Z} 44'16	24°53'58
max. Earth dist.	2239 Apr 01 05:26	5° \mathbb{Y} 52'41	1.35183 AU	desc. node	2240 Feb 08 13:40	24° \mathbb{Z} 40'49	
					2240 Feb 12 17:05	0° \approx	
superior conj	2239 Apr 06 04:57	15° \mathbb{Y} 49'33	-1°02'09		2240 Mar 03 14:12	0° \mathbb{X}	
minimum elong	2239 Apr 06 08:06	16° \mathbb{Y} 05'37	1°01'36	morning set	2240 Mar 09 13:31	10° \mathbb{X} 17'48	
asc. node	2239 Apr 12 12:35	28° \mathbb{Y} 53'31		max. Earth dist.	2240 Mar 13 05:11	16° \mathbb{X} 54'39	1.37021 AU
	2239 Apr 13 01:25	0° \mathbb{B}					
evening rise	2239 Apr 13 23:16	1° \mathbb{B} 52'38		superior conj	2240 Mar 19 15:57	29° \mathbb{X} 10'56	-1°28'17
	2239 Apr 30 15:14	0° \mathbb{I}		minimum elong	2240 Mar 19 20:07	29° \mathbb{X} 31'24	1°27'44
evening max el	2239 May 02 12:21	1° \mathbb{I} 58'24	20°33'03		2240 Mar 20 01:57	0° \mathbb{Y}	
retrograde	2239 May 13 14:16	7° \mathbb{I} 21'32		evening rise	2240 Mar 28 01:59	16° \mathbb{Y} 00'04	
evening set	2239 May 15 15:55	7° \mathbb{I} 11'02		asc. node	2240 Mar 29 09:37	18° \mathbb{Y} 37'45	
desc. node	2239 May 20 15:52	5° \mathbb{I} 30'18			2240 Apr 04 09:39	0° \mathbb{B}	
inferior conj	2239 May 24 20:59	3° \mathbb{I} 13'12	-1°13'47	evening max el	2240 Apr 14 02:52	13° \mathbb{B} 37'11	19°26'46
minimum elong	2239 May 24 17:29	3° \mathbb{I} 18'15	1°12'31	retrograde	2240 Apr 23 11:37	18° \mathbb{B} 08'54	
min. Earth dist.	2239 May 26 02:52	2° \mathbb{I} 30'02	0.55026 AU	evening set	2240 Apr 25 12:50	17° \mathbb{B} 56'49	
	2239 May 30 23:29	30° \mathbb{R} \mathbb{B}		inferior conj	2240 May 04 01:48	13° \mathbb{B} 50'40	0°42'22
morning rise	2239 Jun 02 18:12	29° \mathbb{B} 02'45		minimum elong	2240 May 04 03:33	13° \mathbb{B} 47'48	0°41'44
direct	2239 Jun 06 10:24	28° \mathbb{B} 33'41		min. Earth dist.	2240 May 06 17:25	12° \mathbb{B} 07'56	0.55983 AU
	2239 Jun 12 15:41	0° \mathbb{I}		desc. node	2240 May 06 12:53	12° \mathbb{B} 15'05	
morning max el	2239 Jun 19 18:25	5° \mathbb{I} 00'52	23°16'49	morning rise	2240 May 12 15:25	9° \mathbb{B} 07'35	
	2239 Jul 07 03:21	0° \mathbb{B}		direct	2240 May 17 06:11	8° \mathbb{B} 19'14	
asc. node	2239 Jul 09 11:50	4° \mathbb{B} 34'53		morning max el	2240 May 31 08:56	15° \mathbb{B} 27'48	24°58'03
morning set	2239 Jul 13 00:31	11° \mathbb{B} 49'24			2240 Jun 11 23:53	0° \mathbb{I}	
				asc. node	2240 Jun 25 08:52	24° \mathbb{I} 21'15	
superior conj	2239 Jul 20 02:06	26° \mathbb{B} 57'58	1°31'23	morning set	2240 Jun 26 12:19	26° \mathbb{I} 45'09	

	2240 Jun 28 00:55	0°☿		superior conj	2241 Jun 17 23:11	26°♊48'52	0°57'09
				minimum elong	2241 Jun 17 21:02	26°♊37'01	0°56'45
superior conj	2240 Jul 03 11:41	11°☿51'15	1°16'20	max. Earth dist.	2241 Jun 18 07:24	27°♊34'04	1.32276 AU
minimum elong	2240 Jul 03 09:17	11°☿38'09	1°15'57		2241 Jun 19 09:58	0°☿	
max. Earth dist.	2240 Jul 04 20:40	14°☿50'42	1.32768 AU	evening rise	2241 Jun 24 21:41	11°☿48'40	
evening rise	2240 Jul 10 16:04	27°☿08'32			2241 Jul 04 06:06	0°♊	
	2240 Jul 12 01:50	0°♊		desc. node	2241 Jul 20 09:13	24°♊03'27	
	2240 Jul 29 06:34	0°♊		evening max el	2241 Jul 25 10:51	29°♊28'13	26°54'22
desc. node	2240 Aug 02 12:12	5°♊57'02			2241 Jul 26 00:28	0°♊	
evening max el	2240 Aug 12 06:12	17°♊11'06	27°23'42	retrograde	2241 Aug 08 09:13	6°♊41'32	
retrograde	2240 Aug 26 00:37	24°♊28'08		evening set	2241 Aug 15 07:50	4°♊35'06	
evening set	2240 Sep 02 05:33	21°♊56'50		min. Earth dist.	2241 Aug 19 01:01	1°♊55'55	0.60740 AU
min. Earth dist.	2240 Sep 05 19:47	18°♊59'25	0.62708 AU		2241 Aug 21 08:20	30°♊♊	
inferior conj	2240 Sep 08 16:11	16°♊15'30	-3°46'41	inferior conj	2241 Aug 22 06:19	29°♊13'09	-4°31'33
minimum elong	2240 Sep 08 21:36	16°♊02'31	3°45'12	minimum elong	2241 Aug 22 11:07	29°♊03'00	4°30'43
morning rise	2240 Sep 15 15:06	11°♊07'23		morning rise	2241 Aug 29 16:14	24°♊26'01	
direct	2240 Sep 18 01:44	10°♊40'06		direct	2241 Sep 01 02:05	24°♊03'15	
asc. node	2240 Sep 21 08:04	11°♊30'02		asc. node	2241 Sep 08 05:05	27°♊30'50	
morning max el	2240 Sep 24 19:04	14°♊06'40	17°51'38	morning max el	2241 Sep 08 08:09	27°♊38'12	18°04'05
	2240 Oct 05 17:02	0°♊			2241 Sep 10 11:58	0°♊	
morning set	2240 Oct 10 22:58	9°♊15'24		morning set	2241 Sep 24 04:05	22°♊40'36	
					2241 Sep 28 02:42	0°♊	
superior conj	2240 Oct 22 08:44	29°♊06'51	0°47'23	superior conj	2241 Oct 04 01:24	10°♊47'36	1°17'42
minimum elong	2240 Oct 22 12:51	29°♊24'14	0°46'50	minimum elong	2241 Oct 04 05:41	11°♊06'38	1°17'13
	2240 Oct 22 21:21	0°♊		max. Earth dist.	2241 Oct 11 16:22	23°♊56'49	1.41786 AU
max. Earth dist.	2240 Oct 29 05:55	10°♊28'45	1.43475 AU		2241 Oct 15 08:27	0°♊	
desc. node	2240 Oct 29 11:27	10°♊51'10		desc. node	2241 Oct 16 08:30	1°♊37'23	
evening rise	2240 Nov 06 09:17	23°♊22'01		evening rise	2241 Oct 17 06:16	3°♊04'57	
	2240 Nov 10 16:50	0°♊			2241 Nov 04 02:22	0°♊	
	2240 Dec 01 15:38	0°♊		evening max el	2241 Nov 19 12:44	19°♊30'15	22°36'22
evening max el	2240 Dec 06 19:14	5°♊57'27	21°19'24	retrograde	2241 Nov 29 08:29	25°♊20'21	
retrograde	2240 Dec 15 13:01	11°♊09'01		evening set	2241 Dec 04 00:06	23°♊27'07	
asc. node	2240 Dec 18 07:19	10°♊26'46		asc. node	2241 Dec 05 04:20	22°♊21'50	
evening set	2240 Dec 19 16:42	9°♊32'22		inferior conj	2241 Dec 09 08:43	17°♊05'57	1°23'35
inferior conj	2240 Dec 25 01:15	3°♊17'43	2°08'52	minimum elong	2241 Dec 09 06:55	17°♊12'10	1°22'53
minimum elong	2240 Dec 24 22:50	3°♊26'05	2°08'04	min. Earth dist.	2241 Dec 09 04:41	17°♊19'52	0.67858 AU
min. Earth dist.	2240 Dec 25 08:19	2°♊53'19	0.67655 AU	morning rise	2241 Dec 14 13:36	10°♊55'46	
	2240 Dec 27 12:12	30°♊♊		direct	2241 Dec 19 02:51	9°♊03'45	
morning rise	2240 Dec 30 04:46	27°♊04'53		morning max el	2241 Dec 28 07:04	14°♊27'16	21°58'57
direct	2241 Jan 04 08:49	24°♊50'11			2242 Jan 09 18:07	0°♊	
	2241 Jan 13 17:29	0°♊		desc. node	2242 Jan 12 07:42	3°♊37'49	
morning max el	2241 Jan 14 18:57	1°♊02'25	23°25'56		2242 Jan 29 16:15	0°♊	
desc. node	2241 Jan 25 10:40	13°♊53'17		morning set	2242 Jan 30 01:07	0°♊35'35	
	2241 Feb 05 16:10	0°♊		max. Earth dist.	2242 Feb 04 21:41	10°♊11'30	1.41265 AU
morning set	2241 Feb 18 21:46	21°♊08'35					
max. Earth dist.	2241 Feb 22 23:42	28°♊09'04	1.39132 AU	superior conj	2242 Feb 12 15:32	23°♊30'11	-2°03'17
	2241 Feb 24 00:58	0°♊		minimum elong	2242 Feb 12 17:37	23°♊39'27	2°03'13
superior conj	2241 Mar 02 13:05	11°♊48'19	-1°49'56		2242 Feb 16 06:40	0°♊	
minimum elong	2241 Mar 02 17:14	12°♊07'39	1°49'35	evening rise	2242 Feb 23 04:04	12°♊40'41	
evening rise	2241 Mar 11 20:42	29°♊38'42		asc. node	2242 Mar 03 03:40	27°♊05'25	
	2241 Mar 12 01:07	0°♊			2242 Mar 04 22:03	0°♊	
asc. node	2241 Mar 16 06:39	8°♊03'52		evening max el	2242 Mar 11 11:32	8°♊40'08	18°14'10
evening max el	2241 Mar 28 03:39	25°♊53'59	18°40'28	retrograde	2242 Mar 18 11:24	12°♊10'22	
retrograde	2241 Apr 05 02:08	29°♊46'34		evening set	2242 Mar 21 00:22	11°♊43'31	
evening set	2241 Apr 07 08:59	29°♊28'28		inferior conj	2242 Mar 27 23:55	6°♊58'46	3°09'58
inferior conj	2241 Apr 15 02:17	25°♊04'42	2°12'57	minimum elong	2242 Mar 28 03:08	6°♊51'41	3°09'23
minimum elong	2241 Apr 15 06:14	24°♊57'15	2°11'51	min. Earth dist.	2242 Mar 31 09:19	4°♊00'49	0.59758 AU
min. Earth dist.	2241 Apr 18 10:56	22°♊33'37	0.57672 AU	morning rise	2242 Apr 04 03:34	1°♊17'22	
morning rise	2241 Apr 23 00:20	19°♊48'22			2242 Apr 06 21:11	30°♊♊	
desc. node	2241 Apr 23 09:53	19°♊37'43		desc. node	2242 Apr 10 06:55	29°♊21'23	
direct	2241 Apr 28 16:19	18°♊28'28		direct	2242 Apr 10 15:02	29°♊21'04	
morning max el	2241 May 13 01:02	26°♊03'02	26°25'41		2242 Apr 14 11:32	0°♊	
	2241 May 16 18:16	0°♊		morning max el	2242 Apr 24 22:42	7°♊09'33	27°25'40
	2241 Jun 05 04:45	0°♊			2242 May 12 03:33	0°♊	
morning set	2241 Jun 10 23:09	11°♊37'21		morning set	2242 May 26 07:15	26°♊19'21	
asc. node	2241 Jun 12 05:54	14°♊20'29			2242 May 28 01:12	0°♊	

asc. node	2242 May 30 02:56	4°♄26'53		asc. node	2243 May 17 00:00	24°♄36'12	
superior conj	2242 Jun 02 10:49	11°♄43'40	0°34'33	superior conj	2243 May 17 20:56	26°♄30'05	0°09'13
minimum elong	2242 Jun 02 09:21	11°♄35'33	0°34'14	minimum elong	2243 May 17 20:31	26°♄27'44	0°09'08
max. Earth dist.	2242 Jun 01 19:39	10°♄20'14	1.32171 AU	behind sun begin	2243 May 17 16:17	26°♄04'42	
evening rise	2242 Jun 09 07:17	26°♄38'11		behind sun end	2243 May 18 00:44	26°♄50'48	
	2242 Jun 10 21:49	0°♄			2243 May 19 11:24	0°♄	
	2242 Jun 28 01:50	0°♄		evening rise	2243 May 24 18:53	11°♄30'11	
desc. node	2242 Jul 07 06:14	10°♄52'38			2243 Jun 03 05:06	0°♄	
evening max el	2242 Jul 07 08:31	10°♄58'05	25°52'54	evening max el	2243 Jun 18 23:38	21°♄45'16	24°27'06
retrograde	2242 Jul 21 08:32	18°♄07'14		desc. node	2243 Jun 24 03:14	25°♄54'08	
evening set	2242 Jul 27 12:25	16°♄36'30		retrograde	2243 Jul 02 20:50	28°♄46'13	
min. Earth dist.	2242 Jul 31 20:54	13°♄58'51	0.58682 AU	evening set	2243 Jul 07 17:19	27°♄53'26	
inferior conj	2242 Aug 04 03:10	11°♄35'57	-4°57'34	min. Earth dist.	2243 Jul 13 10:35	24°♄59'30	0.56798 AU
minimum elong	2242 Aug 04 04:58	11°♄32'39	4°57'29	inferior conj	2243 Jul 16 04:03	23°♄15'23	-4°51'24
morning rise	2242 Aug 11 23:44	7°♄11'41		minimum elong	2243 Jul 16 00:35	23°♄20'57	4°51'05
direct	2242 Aug 14 11:34	6°♄51'20		morning rise	2243 Jul 24 10:32	19°♄12'06	
morning max el	2242 Aug 22 15:06	10°♄44'27	18°36'46	direct	2243 Jul 27 02:14	18°♄52'58	
asc. node	2242 Aug 26 02:08	14°♄39'43		morning max el	2243 Aug 05 12:57	23°♄16'34	19°30'46
	2242 Sep 04 09:33	0°♄			2243 Aug 11 04:11	0°♄	
morning set	2242 Sep 07 21:04	6°♄39'52		asc. node	2243 Aug 12 23:12	2°♄42'17	
				morning set	2243 Aug 22 22:16	21°♄03'21	
superior conj	2242 Sep 16 15:52	23°♄32'40	1°36'16		2243 Aug 27 08:53	0°♄	
minimum elong	2242 Sep 16 18:38	23°♄45'35	1°36'04				
	2242 Sep 20 03:50	0°♄		superior conj	2243 Aug 30 22:40	7°♄06'37	1°44'38
max. Earth dist.	2242 Sep 23 22:14	6°♄43'10	1.39788 AU	minimum elong	2243 Aug 30 23:32	7°♄10'57	1°44'37
evening rise	2242 Sep 28 01:32	13°♄49'21		max. Earth dist.	2243 Sep 06 02:11	18°♄50'56	1.37739 AU
desc. node	2242 Oct 03 05:33	22°♄18'28		evening rise	2243 Sep 09 20:29	25°♄39'52	
	2242 Oct 08 03:18	0°♄			2243 Sep 12 07:59	0°♄	
	2242 Oct 30 04:15	0°♄		desc. node	2243 Sep 20 02:35	12°♄50'06	
evening max el	2242 Nov 02 02:32	3°♄06'13	23°56'24		2243 Oct 01 17:17	0°♄	
retrograde	2242 Nov 13 00:43	9°♄31'46		evening max el	2243 Oct 15 14:34	16°♄44'55	25°12'47
evening set	2242 Nov 18 05:46	7°♄21'30		retrograde	2243 Oct 27 12:44	23°♄38'29	
asc. node	2242 Nov 22 01:21	3°♄06'50		evening set	2243 Nov 02 08:01	21°♄12'28	
min. Earth dist.	2242 Nov 23 01:08	1°♄47'23	0.67714 AU	min. Earth dist.	2243 Nov 06 19:19	16°♄12'53	0.67235 AU
inferior conj	2242 Nov 23 15:48	0°♄57'40	0°32'52	inferior conj	2243 Nov 07 20:43	14°♄50'06	-0°22'08
minimum elong	2242 Nov 23 15:01	1°♄00'19	0°32'31	minimum elong	2243 Nov 07 21:17	14°♄48'16	0°21'55
	2242 Nov 24 08:53	30°♄		asc. node	2243 Nov 08 22:25	13°♄27'15	
morning rise	2242 Nov 29 00:15	24°♄52'20		morning rise	2243 Nov 13 10:45	8°♄51'55	
direct	2242 Dec 02 23:41	23°♄22'48		direct	2243 Nov 16 22:00	7°♄42'30	
morning max el	2242 Dec 11 01:59	28°♄03'02	20°40'21	morning max el	2243 Nov 24 04:48	11°♄49'28	19°34'30
	2242 Dec 12 21:51	0°♄		greatest brilliancy	2243 Dec 07 11:07	29°♄29'52	-0.7m
desc. node	2242 Dec 30 04:46	23°♄45'29			2243 Dec 07 19:10	0°♄	
	2243 Jan 03 08:05	0°♄		desc. node	2243 Dec 17 01:48	14°♄09'14	
morning set	2243 Jan 09 03:38	8°♄56'29		morning set	2243 Dec 19 00:53	17°♄11'02	
max. Earth dist.	2243 Jan 18 03:32	23°♄11'56	1.43116 AU		2243 Dec 27 06:29	0°♄	
	2243 Jan 22 07:19	0°♄		max. Earth dist.	2243 Dec 31 16:15	6°♄56'43	1.44445 AU
superior conj	2243 Jan 24 18:08	4°♄04'47	-2°03'28	superior conj	2244 Jan 04 18:21	13°♄27'51	-1°45'46
minimum elong	2243 Jan 24 15:35	3°♄54'07	2°03'23	minimum elong	2244 Jan 04 10:35	12°♄56'40	1°45'10
evening rise	2243 Feb 05 20:06	24°♄57'59			2244 Jan 14 21:09	0°♄	
	2243 Feb 08 16:26	0°♄		evening rise	2244 Jan 18 16:21	6°♄21'33	
asc. node	2243 Feb 18 00:42	15°♄34'47			2244 Feb 02 07:24	0°♄	
evening max el	2243 Feb 22 23:15	21°♄46'53	18°07'27	asc. node	2244 Feb 04 21:45	3°♄21'29	
retrograde	2243 Mar 01 12:02	25°♄10'25		evening max el	2244 Feb 06 11:48	5°♄05'57	18°19'46
evening set	2243 Mar 04 06:18	24°♄33'31		retrograde	2244 Feb 12 23:11	8°♄36'01	
inferior conj	2243 Mar 10 15:54	19°♄27'57	3°37'22	evening set	2244 Feb 15 22:41	7°♄48'11	
minimum elong	2243 Mar 10 17:13	19°♄24'38	3°37'16	inferior conj	2244 Feb 21 22:04	2°♄23'25	3°42'09
min. Earth dist.	2243 Mar 13 15:27	16°♄28'01	0.61895 AU	minimum elong	2244 Feb 21 21:33	2°♄24'55	3°42'07
morning rise	2243 Mar 17 02:43	13°♄30'42			2244 Feb 24 00:44	30°♄	
direct	2243 Mar 23 23:57	11°♄03'02		min. Earth dist.	2244 Feb 24 07:06	29°♄42'28	0.63827 AU
desc. node	2243 Mar 28 03:56	11°♄51'47		morning rise	2244 Feb 27 19:38	26°♄17'13	
morning max el	2243 Apr 07 02:45	18°♄58'20	27°49'41	direct	2244 Mar 05 17:16	23°♄30'16	
	2243 Apr 16 10:48	0°♄		desc. node	2244 Mar 14 00:59	26°♄43'50	
	2243 May 04 23:21	0°♄			2244 Mar 17 23:55	0°♄	
morning set	2243 May 10 10:41	10°♄44'48		morning max el	2244 Mar 19 11:09	1°♄25'12	27°36'36
max. Earth dist.	2243 May 16 05:27	22°♄55'44	1.32458 AU		2244 Apr 09 14:32	0°♄	

morning set	2244 Apr 23 07:01	24° Υ 45'33		morning max el	2245 Mar 01 20:58	14° \approx 18'54	26°51'04
	2244 Apr 25 21:27	0° B			2245 Mar 14 15:48	0° H	
max. Earth dist.	2244 Apr 28 08:42	5° B 06'57	1.33157 AU		2245 Apr 02 07:20	0° Υ	
				morning set	2245 Apr 06 16:57	8° Υ 11'39	
superior conj	2244 May 01 03:42	11° B 01'59	-0°18'04	max. Earth dist.	2245 Apr 11 01:39	16° Υ 44'50	1.34308 AU
minimum elong	2244 May 01 04:35	11° B 06'46	0°17'51				
asc. node	2244 May 02 21:04	14° B 44'04		superior conj	2245 Apr 15 04:59	25° Υ 13'03	-0°46'09
evening rise	2244 May 08 06:34	26° B 18'00		minimum elong	2245 Apr 15 07:20	25° Υ 25'16	0°45'42
	2244 May 10 01:04	0° II			2245 Apr 17 11:48	0° B	
	2244 May 28 10:11	0° E		asc. node	2245 Apr 19 18:07	4° B 46'22	
evening max el	2244 May 30 13:37	2° E 13'33	22°51'05	evening rise	2245 Apr 22 16:27	10° B 55'30	
desc. node	2244 Jun 10 00:14	8° E 32'20			2245 May 02 16:26	0° II	
retrograde	2244 Jun 12 21:02	8° E 51'06		evening max el	2245 May 12 10:13	12° II 55'06	21°19'32
evening set	2244 Jun 16 05:35	8° E 26'22		retrograde	2245 May 24 11:15	18° II 48'21	
min. Earth dist.	2244 Jun 23 22:15	5° E 02'19	0.55429 AU	evening set	2245 May 26 18:55	18° II 36'00	
inferior conj	2244 Jun 25 09:54	4° E 10'59	-3°59'45	desc. node	2245 May 27 21:16	18° II 21'57	
minimum elong	2244 Jun 25 02:12	4° E 22'06	3°57'57	inferior conj	2245 Jun 05 04:24	14° II 36'41	-2°22'12
morning rise	2244 Jul 04 01:12	0° E 18'56		minimum elong	2245 Jun 04 21:57	14° II 45'45	2°20'02
direct	2244 Jul 06 22:13	29° II 59'35		min. Earth dist.	2245 Jun 05 10:21	14° II 28'19	0.54894 AU
	2244 Jul 06 12:16	30° R II		morning rise	2245 Jun 14 01:24	10° II 38'16	
	2244 Jul 07 08:08	0° E		direct	2245 Jun 17 08:24	10° II 14'44	
morning max el	2244 Jul 17 23:42	5° E 07'17	20°45'49	morning max el	2245 Jun 29 23:19	16° II 14'07	22°18'31
asc. node	2244 Jul 29 20:18	21° E 26'11			2245 Jul 10 17:14	0° E	
	2244 Aug 03 09:01	0° Ω		asc. node	2245 Jul 16 17:21	10° E 40'36	
morning set	2244 Aug 06 05:02	5° Ω 44'03		morning set	2245 Jul 21 15:08	20° E 34'58	
					2245 Jul 26 01:45	0° Ω	
superior conj	2244 Aug 13 17:06	21° Ω 16'11	1°44'38				
minimum elong	2244 Aug 13 16:24	21° Ω 12'32	1°44'38	superior conj	2245 Jul 28 19:30	5° Ω 49'20	1°37'52
	2244 Aug 18 01:26	0° H		minimum elong	2245 Jul 28 17:42	5° Ω 39'52	1°37'43
max. Earth dist.	2244 Aug 18 09:55	0° H 41'36	1.35877 AU	max. Earth dist.	2245 Aug 01 02:08	12° Ω 39'49	1.34357 AU
evening rise	2244 Aug 22 11:45	8° H 29'03		evening rise	2245 Aug 05 18:36	22° Ω 03'32	
	2244 Sep 03 23:40	0° Ω			2245 Aug 09 23:18	0° H	
desc. node	2244 Sep 05 23:36	3° Ω 07'20		desc. node	2245 Aug 23 20:37	23° H 02'43	
	2244 Sep 26 16:35	0° H			2245 Aug 28 17:58	0° Ω	
evening max el	2244 Sep 27 02:36	0° H 24'29	26°18'04	evening max el	2245 Sep 09 14:56	13° Ω 56'52	27°04'40
retrograde	2244 Oct 09 19:59	7° H 35'23		retrograde	2245 Sep 22 21:37	21° Ω 14'31	
evening set	2244 Oct 16 04:59	4° H 57'23		evening set	2245 Sep 29 18:19	18° Ω 31'14	
min. Earth dist.	2244 Oct 20 08:55	0° H 33'37	0.66418 AU	min. Earth dist.	2245 Oct 03 15:35	14° Ω 43'37	0.65253 AU
	2244 Oct 20 19:57	30° R Ω		inferior conj	2245 Oct 05 16:26	12° Ω 25'19	-2°18'50
inferior conj	2244 Oct 21 21:39	28° Ω 40'56	-1°19'58	minimum elong	2245 Oct 05 20:10	12° Ω 14'45	2°17'24
minimum elong	2244 Oct 21 23:47	28° Ω 34'24	1°19'05	morning rise	2245 Oct 11 22:49	6° Ω 49'43	
asc. node	2244 Oct 25 19:28	24° Ω 21'05		asc. node	2245 Oct 12 16:31	6° Ω 31'00	
morning rise	2244 Oct 27 19:04	22° Ω 52'31		direct	2245 Oct 14 16:23	6° Ω 09'27	
direct	2244 Oct 30 20:16	21° Ω 59'37		morning max el	2245 Oct 21 04:49	9° Ω 40'11	18°09'45
morning max el	2244 Nov 06 14:30	25° Ω 43'52	18°43'54		2245 Nov 04 05:29	0° H	
	2244 Nov 10 06:32	0° H		morning set	2245 Nov 08 14:25	7° H 12'08	
morning set	2244 Nov 27 17:05	26° H 27'52		desc. node	2245 Nov 19 19:53	25° H 27'11	
	2244 Nov 29 22:44	0° X			2245 Nov 22 16:24	0° X	
desc. node	2244 Dec 02 22:52	4° X 44'37					
				superior conj	2245 Nov 23 02:50	0° X 41'23	-0°22'01
superior conj	2244 Dec 13 23:03	22° X 02'37	-1°09'31	minimum elong	2245 Nov 23 00:01	0° X 30'14	0°21'38
minimum elong	2244 Dec 13 14:50	21° X 30'20	1°08'33	max. Earth dist.	2245 Nov 26 04:22	5° X 31'50	1.45028 AU
max. Earth dist.	2244 Dec 13 09:26	21° X 09'09	1.45105 AU	evening rise	2245 Dec 09 12:25	26° X 20'34	
	2244 Dec 19 00:21	0° Z			2245 Dec 11 20:59	0° Z	
evening rise	2244 Dec 29 13:33	16° Z 47'16		greatest brilliancy	2245 Dec 22 03:34	15° Z 47'00	-0.7m
greatest brilliancy	2245 Jan 05 19:23	28° Z 24'58	-0.9m		2246 Jan 01 09:48	0° \approx	
	2245 Jan 06 19:14	0° \approx		evening max el	2246 Jan 03 05:53	2° \approx 01'37	19°37'22
evening max el	2245 Jan 19 22:43	18° \approx 32'12	18°50'12	asc. node	2246 Jan 08 15:48	5° \approx 56'06	
asc. node	2245 Jan 21 18:47	20° \approx 13'25		retrograde	2246 Jan 10 13:50	6° \approx 16'16	
retrograde	2245 Jan 26 16:52	22° \approx 19'50		evening set	2246 Jan 14 02:39	5° \approx 03'11	
evening set	2245 Jan 29 22:20	21° \approx 20'03			2246 Jan 18 21:56	30° R Z	
inferior conj	2245 Feb 04 14:38	15° \approx 38'04	3°30'14	inferior conj	2246 Jan 19 14:22	29° Z 06'16	3°05'55
minimum elong	2245 Feb 04 12:48	15° \approx 43'41	3°30'00	minimum elong	2246 Jan 19 11:53	29° Z 14'26	3°05'22
min. Earth dist.	2245 Feb 06 08:10	13° \approx 29'56	0.65415 AU	min. Earth dist.	2246 Jan 20 17:18	27° Z 37'48	0.66597 AU
morning rise	2245 Feb 10 02:53	9° \approx 27'16		morning rise	2246 Jan 24 20:53	22° Z 53'27	
direct	2245 Feb 16 17:42	6° \approx 35'31		direct	2246 Jan 30 23:58	20° Z 09'46	
desc. node	2245 Feb 28 22:02	13° \approx 22'25		morning max el	2246 Feb 12 06:04	27° Z 27'16	25°41'18

	2246 Feb 14 15:41	0°♊		desc. node	2247 Feb 02 16:06	20°♊05'58	
desc. node	2246 Feb 15 19:05	1°♊17'16			2247 Feb 09 22:49	0°♊	
	2246 Mar 08 08:00	0°♋			2247 Mar 01 01:28	0°♋	
morning set	2246 Mar 20 12:11	20°♋50'16		morning set	2247 Mar 02 10:57	2°♋24'36	
max. Earth dist.	2246 Mar 24 06:57	27°♋53'58	1.35915 AU	max. Earth dist.	2247 Mar 06 03:50	8°♋58'04	1.37899 AU
	2246 Mar 25 09:16	0°♌					
superior conj	2246 Mar 29 22:10	8°♌55'47	-1°13'35	superior conj	2247 Mar 13 03:46	21°♋59'48	-1°38'13
minimum elong	2246 Mar 30 01:49	9°♌14'10	1°13'00	minimum elong	2247 Mar 13 08:07	22°♋20'39	1°37'43
evening rise	2246 Apr 06 22:30	25°♌16'26			2247 Mar 17 06:27	0°♌	
asc. node	2246 Apr 06 15:08	24°♌38'58		evening rise	2247 Mar 21 22:09	9°♌12'39	
	2246 Apr 09 06:47	0°♍		asc. node	2247 Mar 24 12:09	14°♌16'17	
evening max el	2246 Apr 24 18:06	24°♍11'47	20°02'34	evening max el	2247 Apr 02 12:50	0°♍	
retrograde	2246 May 05 01:55	29°♍11'35			2247 Apr 07 13:15	6°♍07'13	19°04'36
evening set	2246 May 07 02:18	29°♍01'00		retrograde	2247 Apr 16 06:01	10°♍20'31	
desc. node	2246 May 14 18:17	25°♍48'00		evening set	2247 Apr 18 09:29	10°♍06'11	
inferior conj	2246 May 16 01:31	25°♍01'31	-0°22'48	inferior conj	2247 Apr 26 14:02	5°♍52'53	1°24'46
minimum elong	2246 May 16 00:28	25°♍03'06	0°22'25	minimum elong	2247 Apr 26 17:09	5°♍47'29	1°23'44
min. Earth dist.	2246 May 17 23:37	23°♍52'23	0.55329 AU	min. Earth dist.	2247 Apr 29 14:53	3°♍47'56	0.56631 AU
morning rise	2246 May 24 20:44	20°♍38'30		desc. node	2247 May 01 15:18	2°♍32'03	
direct	2246 May 28 22:00	20°♍02'35		morning rise	2247 May 04 21:48	0°♍55'21	
morning max el	2246 Jun 11 15:20	26°♍48'48	24°00'24		2247 May 08 13:04	30°♌♌	
	2246 Jun 14 17:15	0°♎		direct	2247 May 09 23:26	29°♌55'07	
	2246 Jul 03 10:56	0°♏			2247 May 11 09:51	0°♎	
asc. node	2246 Jul 03 14:24	0°♏17'40		morning max el	2247 May 24 05:49	7°♎15'37	25°37'55
morning set	2246 Jul 06 02:49	5°♏30'54			2247 Jun 10 00:09	0°♎	
				asc. node	2247 Jun 20 11:26	20°♎10'13	
superior conj	2246 Jul 13 03:06	20°♏37'36	1°25'33	morning set	2247 Jun 20 14:25	20°♎25'58	
minimum elong	2246 Jul 13 00:47	20°♏25'01	1°25'15		2247 Jun 25 00:54	0°♏	
max. Earth dist.	2246 Jul 15 03:37	24°♏58'32	1.33240 AU	superior conj	2247 Jun 27 13:42	5°♏33'18	1°08'39
	2246 Jul 17 12:36	0°♐		minimum elong	2247 Jun 27 11:21	5°♏20'25	1°08'16
evening rise	2246 Jul 20 12:52	6°♐11'25		max. Earth dist.	2247 Jun 28 12:02	7°♏35'34	1.32518 AU
	2246 Aug 02 13:12	0°♑		evening rise	2247 Jul 04 15:07	20°♏41'54	
desc. node	2246 Aug 10 17:37	12°♑26'49			2247 Jul 09 06:36	0°♐	
evening max el	2246 Aug 23 02:14	27°♑10'22	27°25'30		2247 Jul 27 18:03	0°♑	
	2246 Aug 26 08:13	0°♒		desc. node	2247 Jul 28 14:38	1°♑06'30	
retrograde	2246 Sep 05 17:06	4°♒27'42		evening max el	2247 Aug 05 09:56	9°♑50'50	27°15'12
evening set	2246 Sep 12 21:07	1°♒48'42		retrograde	2247 Aug 19 05:48	17°♑05'43	
	2246 Sep 15 01:31	30°♒♑		evening set	2247 Aug 26 09:39	14°♑43'15	
min. Earth dist.	2246 Sep 16 13:05	28°♒34'54	0.63738 AU	min. Earth dist.	2247 Aug 30 00:03	11°♑55'37	0.61902 AU
inferior conj	2246 Sep 19 02:32	25°♒57'37	-3°16'02	inferior conj	2247 Sep 02 00:55	9°♒10'14	-4°07'19
minimum elong	2246 Sep 19 07:33	25°♒44'44	3°14'25	minimum elong	2247 Sep 02 06:18	8°♒57'58	4°06'04
morning rise	2246 Sep 25 19:10	20°♒38'20		morning rise	2247 Sep 09 04:31	4°♒10'48	
direct	2246 Sep 28 07:40	20°♒07'05		direct	2247 Sep 11 14:36	3°♒45'38	
asc. node	2246 Sep 29 13:34	20°♒14'51		asc. node	2247 Sep 16 10:37	5°♒29'23	
morning max el	2246 Oct 04 21:00	23°♒32'37	17°53'00	morning max el	2247 Sep 18 12:10	7°♒14'15	17°54'35
	2246 Oct 10 00:16	0°♓			2247 Oct 03 05:01	0°♓	
morning set	2246 Oct 21 14:18	19°♓13'42		morning set	2247 Oct 04 10:27	2°♓13'22	
	2246 Oct 27 21:09	0°♔					
superior conj	2246 Nov 03 01:33	10°♔18'32	0°24'35	superior conj	2247 Oct 15 03:23	21°♓16'11	1°01'44
minimum elong	2246 Nov 03 04:09	10°♔29'10	0°24'13	minimum elong	2247 Oct 15 07:54	21°♓35'36	1°01'10
desc. node	2246 Nov 06 16:54	16°♔13'45			2247 Oct 20 07:08	0°♔	
max. Earth dist.	2246 Nov 08 22:21	19°♔48'06	1.44232 AU	max. Earth dist.	2247 Oct 22 12:17	3°♔39'16	1.42810 AU
	2246 Nov 15 09:40	0°♕		desc. node	2247 Oct 24 13:57	7°♔01'18	
evening rise	2246 Nov 18 21:54	5°♕26'02		evening rise	2247 Oct 29 10:07	14°♔43'52	
	2246 Dec 05 07:16	0°♖			2247 Nov 08 09:56	0°♕	
evening max el	2246 Dec 17 07:49	15°♖31'54	20°38'50	evening max el	2247 Nov 30 04:07	29°♕03'22	21°51'20
retrograde	2246 Dec 25 11:41	20°♖21'02			2247 Dec 01 03:03	0°♖	
asc. node	2246 Dec 26 12:49	20°♖14'56		retrograde	2247 Dec 09 08:36	4°♖31'28	
evening set	2246 Dec 29 09:31	18°♖53'13		asc. node	2247 Dec 13 09:50	3°♖01'58	
inferior conj	2247 Jan 03 18:43	12°♖44'03	2°31'59	evening set	2247 Dec 13 17:13	2°♖47'38	
minimum elong	2247 Jan 03 16:08	12°♖52'54	2°31'12		2247 Dec 16 10:22	30°♒♕	
min. Earth dist.	2247 Jan 04 08:33	11°♖56'49	0.67379 AU	inferior conj	2247 Dec 19 01:36	26°♕29'34	1°50'26
morning rise	2247 Jan 08 22:34	6°♖30'56		minimum elong	2247 Dec 18 23:24	26°♕37'13	1°49'37
direct	2247 Jan 14 11:17	4°♖04'19		min. Earth dist.	2247 Dec 19 03:45	26°♕22'07	0.67784 AU
morning max el	2247 Jan 25 14:25	10°♖42'36	24°17'02	morning rise	2247 Dec 24 05:26	20°♕17'46	
				direct	2247 Dec 29 03:02	18°♕12'51	

morning max el	2248 Jan 08 00:20	24° ♁ 04'13	22°48'24			2249 Jan 06 18:42	0° ♁	
	2248 Jan 13 06:34	0° ♁		morning set		2249 Jan 20 22:38	21° ♁ 34'37	
desc. node	2248 Jan 20 13:08	9° ♁ 33'36				2249 Jan 26 04:43	0° ♁	
	2248 Feb 03 09:27	0° ♁		max. Earth dist.		2249 Jan 27 23:57	2° ♁ 56'58	1.42100 AU
morning set	2248 Feb 11 07:14	12° ♁ 40'19						
max. Earth dist.	2248 Feb 15 23:23	20° ♁ 31'47	1.40055 AU	superior conj		2249 Feb 04 10:23	15° ♁ 28'49	-2°05'16
	2248 Feb 21 09:09	0° ♁		minimum elong		2249 Feb 04 10:48	15° ♁ 30'38	2°05'16
						2249 Feb 12 15:12	0° ♁	
superior conj	2248 Feb 23 17:33	4° ♁ 14'49	-1°56'53	evening rise		2249 Feb 15 13:53	5° ♁ 20'45	
minimum elong	2248 Feb 23 21:08	4° ♁ 31'09	1°56'39	asc. node		2249 Feb 25 06:12	22° ♁ 21'49	
evening rise	2248 Mar 04 12:31	22° ♁ 36'58				2249 Mar 02 16:34	0° ♁	
	2248 Mar 08 10:34	0° ♁		evening max el		2249 Mar 04 03:12	1° ♁ 32'42	18°08'58
asc. node	2248 Mar 10 09:10	3° ♁ 32'51		retrograde		2249 Mar 10 21:12	4° ♁ 58'23	
evening max el	2248 Mar 20 17:21	18° ♁ 36'57	18°26'48	evening set		2249 Mar 13 12:23	4° ♁ 27'32	
retrograde	2248 Mar 28 04:58	22° ♁ 18'26				2249 Mar 19 18:28	30° ♁	
evening set	2248 Mar 30 14:20	21° ♁ 56'57		inferior conj		2249 Mar 20 05:34	29° ♁ 34'06	3°24'48
inferior conj	2248 Apr 06 23:40	17° ♁ 24'14	2°41'11	minimum elong		2249 Mar 20 08:01	29° ♁ 28'21	3°24'27
minimum elong	2248 Apr 07 03:33	17° ♁ 16'22	2°40'14	min. Earth dist.		2249 Mar 23 11:51	26° ♁ 31'58	0.60675 AU
min. Earth dist.	2248 Apr 10 10:11	14° ♁ 38'41	0.58529 AU	morning rise		2249 Mar 27 01:38	23° ♁ 44'44	
morning rise	2248 Apr 14 13:53	11° ♁ 55'38		direct		2249 Apr 02 18:31	21° ♁ 33'35	
desc. node	2248 Apr 17 12:19	10° ♁ 45'50		desc. node		2249 Apr 04 09:21	21° ♁ 40'53	
direct	2248 Apr 20 14:56	10° ♁ 20'30		morning max el		2249 Apr 17 00:44	29° ♁ 26'46	27°40'31
morning max el	2248 May 05 00:13	18° ♁ 02'28	26°55'19			2249 Apr 17 14:00	0° ♁	
	2248 May 14 23:40	0° ♁				2249 May 08 21:34	0° ♁	
	2248 Jun 01 11:13	0° ♁		morning set		2249 May 19 06:44	19° ♁ 50'51	
morning set	2248 Jun 04 00:19	5° ♁ 14'38		asc. node		2249 May 24 05:32	0° ♁ 21'28	
asc. node	2248 Jun 06 08:29	10° ♁ 13'01				2249 May 24 01:35	0° ♁	
				max. Earth dist.		2249 May 25 11:23	3° ♁ 04'04	1.32234 AU
superior conj	2248 Jun 11 01:29	20° ♁ 30'19	0°47'56					
minimum elong	2248 Jun 10 23:34	20° ♁ 19'47	0°47'34	superior conj		2249 May 26 12:44	5° ♁ 22'47	0°24'05
max. Earth dist.	2248 Jun 10 23:51	20° ♁ 21'23	1.32182 AU	minimum elong		2249 May 26 11:39	5° ♁ 16'54	0°23'52
	2248 Jun 15 09:32	0° ♁		evening rise		2249 Jun 02 09:23	20° ♁ 18'09	
evening rise	2248 Jun 17 22:41	5° ♁ 26'32				2249 Jun 07 02:51	0° ♁	
	2248 Jun 30 22:41	0° ♁				2249 Jun 26 09:10	0° ♁	
desc. node	2248 Jul 14 11:39	18° ♁ 43'16		evening max el		2249 Jun 29 06:05	2° ♁ 58'09	25°18'47
evening max el	2248 Jul 17 11:29	21° ♁ 47'16	26°31'45	desc. node		2249 Jul 01 08:39	4° ♁ 51'34	
retrograde	2248 Jul 31 10:52	28° ♁ 59'41		retrograde		2249 Jul 13 06:17	10° ♁ 05'31	
evening set	2248 Aug 07 03:17	27° ♁ 07'03		evening set		2249 Jul 18 21:50	8° ♁ 51'30	
min. Earth dist.	2248 Aug 11 00:52	24° ♁ 31'01	0.59860 AU	min. Earth dist.		2249 Jul 23 17:59	6° ♁ 08'41	0.57832 AU
inferior conj	2248 Aug 14 08:05	21° ♁ 53'56	-4°45'37	inferior conj		2249 Jul 26 20:45	4° ♁ 00'00	-4°59'52
minimum elong	2248 Aug 14 11:57	21° ♁ 46'14	4°45'09	minimum elong		2249 Jul 26 20:29	4° ♁ 00'28	4°59'52
morning rise	2248 Aug 21 22:40	17° ♁ 16'53				2249 Aug 03 01:10	30° ♁	
direct	2248 Aug 24 09:01	16° ♁ 55'26		morning rise		2249 Aug 03 21:38	29° ♁ 45'12	
morning max el	2248 Aug 31 23:06	20° ♁ 36'35	18°15'30	direct		2249 Aug 06 10:40	29° ♁ 25'39	
asc. node	2248 Sep 02 07:41	22° ♁ 01'10				2249 Aug 09 17:09	0° ♁	
	2248 Sep 08 01:30	0° ♁		morning max el		2249 Aug 15 02:39	3° ♁ 30'35	18°57'04
morning set	2248 Sep 16 21:07	15° ♁ 54'17		asc. node		2249 Aug 20 04:46	9° ♁ 35'18	
	2248 Sep 24 08:57	0° ♁		morning set		2249 Aug 31 18:02	0° ♁ 05'27	
						2249 Aug 31 16:55	0° ♁	
superior conj	2248 Sep 26 06:04	3° ♁ 26'37	1°26'55					
minimum elong	2248 Sep 26 09:49	3° ♁ 43'39	1°26'35	superior conj		2249 Sep 09 04:11	16° ♁ 34'55	1°40'56
max. Earth dist.	2248 Oct 03 20:17	16° ♁ 48'49	1.40953 AU	minimum elong		2249 Sep 09 06:08	16° ♁ 44'16	1°40'50
evening rise	2248 Oct 08 15:51	24° ♁ 50'49		max. Earth dist.		2249 Sep 16 00:24	29° ♁ 16'06	1.38909 AU
desc. node	2248 Oct 10 10:59	27° ♁ 45'49				2249 Sep 16 10:13	0° ♁	
	2248 Oct 11 20:29	0° ♁		evening rise		2249 Sep 19 21:31	6° ♁ 04'49	
	2248 Nov 01 06:32	0° ♁		desc. node		2249 Sep 27 08:01	18° ♁ 23'45	
evening max el	2248 Nov 11 19:38	12° ♁ 36'47	23°10'23			2249 Oct 04 21:19	0° ♁	
retrograde	2248 Nov 22 02:59	18° ♁ 43'25		evening max el		2249 Oct 25 08:30	26° ♁ 14'27	24°29'47
evening set	2248 Nov 27 00:06	16° ♁ 42'52				2249 Oct 29 16:00	0° ♁	
asc. node	2248 Nov 29 06:53	14° ♁ 23'22		retrograde		2249 Nov 05 17:36	2° ♁ 53'19	
inferior conj	2248 Dec 02 09:08	10° ♁ 19'47	1°02'41	evening set		2249 Nov 11 04:32	0° ♁ 36'21	
minimum elong	2248 Dec 02 07:43	10° ♁ 24'38	1°02'06			2249 Nov 11 20:37	30° ♁	
min. Earth dist.	2248 Dec 02 00:31	10° ♁ 49'25	0.67834 AU	min. Earth dist.		2249 Nov 15 20:26	25° ♁ 16'26	0.67552 AU
morning rise	2248 Dec 07 15:16	4° ♁ 11'15		asc. node		2249 Nov 16 03:57	24° ♁ 51'19	
direct	2248 Dec 11 22:21	2° ♁ 29'09		inferior conj		2249 Nov 16 15:33	24° ♁ 12'30	0°09'58
morning max el	2248 Dec 20 15:07	7° ♁ 33'46	21°24'07	minimum elong		2249 Nov 16 15:18	24° ♁ 13'19	0°09'52
desc. node	2249 Jan 06 10:12	29° ♁ 28'54		transit middle		2249 Nov 16 15:18	24° ♁ 13'19	0°09'52

transit begin	2249 Nov 16 13:07	24° \mathbb{M} 20'37		minimum elong	2250 Oct 31 20:14	8° \mathbb{M} 01'05	0°45'53
transit end	2249 Nov 16 17:29	24° \mathbb{M} 06'02		asc. node	2250 Nov 03 01:01	5° \mathbb{M} 19'28	
morning rise	2249 Nov 22 02:07	18° \mathbb{M} 09'36		morning rise	2250 Nov 06 11:58	2° \mathbb{M} 10'24	
direct	2249 Nov 25 20:07	16° \mathbb{M} 48'55		direct	2250 Nov 09 18:46	1° \mathbb{M} 08'17	
morning max el	2249 Dec 03 13:17	21° \mathbb{M} 13'54	20°10'26	morning max el	2250 Nov 16 19:11	5° \mathbb{M} 04'03	19°10'56
	2249 Dec 10 18:50	0° \mathbb{Z}			2250 Dec 04 14:23	0° \mathbb{Z}	
desc. node	2249 Dec 24 07:15	19° \mathbb{Z} 44'08		morning set	2250 Dec 09 22:37	8° \mathbb{Z} 17'59	
morning set	2249 Dec 30 19:36	29° \mathbb{Z} 42'47		desc. node	2250 Dec 11 04:18	10° \mathbb{Z} 13'33	
	2249 Dec 31 00:03	0° \mathbb{Z}			2250 Dec 23 19:32	0° \mathbb{Z}	
max. Earth dist.	2250 Jan 10 08:30	16° \mathbb{Z} 16'34	1.43760 AU	max. Earth dist.	2250 Dec 23 23:53	0° \mathbb{Z} 17'06	1.44820 AU
superior conj	2250 Jan 16 01:42	25° \mathbb{Z} 32'36	-1°58'19	superior conj	2250 Dec 26 16:03	4° \mathbb{Z} 30'47	-1°32'25
minimum elong	2250 Jan 15 20:44	25° \mathbb{Z} 12'12	1°58'05	minimum elong	2250 Dec 26 07:13	3° \mathbb{Z} 55'46	1°31'35
	2250 Jan 18 18:26	0° \mathbb{Z}		evening rise	2251 Jan 10 08:38	28° \mathbb{Z} 15'00	
evening rise	2250 Jan 28 21:57	17° \mathbb{Z} 15'37			2251 Jan 11 10:07	0° \mathbb{Z}	
	2250 Feb 05 07:43	0° \mathbb{H}		evening max el	2251 Jan 30 03:54	28° \mathbb{Z} 09'15	18°30'35
asc. node	2250 Feb 12 03:15	10° \mathbb{H} 34'29		asc. node	2251 Jan 30 00:17	28° \mathbb{Z} 00'00	
evening max el	2250 Feb 15 15:41	14° \mathbb{H} 45'55	18°10'28		2251 Feb 01 05:45	0° \mathbb{H}	
retrograde	2250 Feb 22 02:40	18° \mathbb{H} 10'21		retrograde	2251 Feb 05 17:03	1° \mathbb{H} 45'14	
evening set	2250 Feb 24 23:12	17° \mathbb{H} 28'51		evening set	2251 Feb 08 19:04	0° \mathbb{H} 52'15	
inferior conj	2250 Mar 03 04:03	12° \mathbb{H} 15'10	3°41'44		2251 Feb 10 02:07	30° \mathbb{R} \mathbb{Z}	
minimum elong	2250 Mar 03 04:31	12° \mathbb{H} 13'53	3°41'43	inferior conj	2251 Feb 14 15:04	25° \mathbb{Z} 19'47	3°38'48
min. Earth dist.	2250 Mar 05 21:50	9° \mathbb{H} 21'01	0.62757 AU	minimum elong	2251 Feb 14 13:55	25° \mathbb{Z} 23'10	3°38'43
morning rise	2250 Mar 09 08:45	6° \mathbb{H} 13'40		min. Earth dist.	2251 Feb 16 17:23	22° \mathbb{Z} 51'52	0.64554 AU
direct	2250 Mar 16 07:26	3° \mathbb{H} 35'49		morning rise	2251 Feb 20 08:15	19° \mathbb{Z} 11'30	
desc. node	2250 Mar 22 06:25	5° \mathbb{H} 15'40		direct	2251 Feb 27 03:46	16° \mathbb{Z} 21'00	
morning max el	2250 Mar 30 06:41	11° \mathbb{H} 31'52	27°48'27	desc. node	2251 Mar 09 03:27	20° \mathbb{Z} 57'37	
	2250 Apr 13 20:53	0° \mathbb{Y}		morning max el	2251 Mar 12 15:55	24° \mathbb{Z} 11'36	27°20'49
	2250 May 01 05:54	0° \mathbb{B}			2251 Mar 17 21:40	0° \mathbb{H}	
morning set	2250 May 03 07:26	4° \mathbb{B} 06'34			2251 Apr 07 05:48	0° \mathbb{Y}	
max. Earth dist.	2250 May 08 18:43	15° \mathbb{B} 29'52	1.32698 AU	morning set	2251 Apr 16 23:45	17° \mathbb{Y} 53'47	
				max. Earth dist.	2251 Apr 21 18:06	27° \mathbb{Y} 28'22	1.33596 AU
superior conj	2250 May 10 21:38	20° \mathbb{B} 03'53	-0°02'11		2251 Apr 22 23:21	0° \mathbb{B}	
minimum elong	2250 May 10 21:44	20° \mathbb{B} 04'27	0°02'10	superior conj	2251 Apr 25 02:19	4° \mathbb{B} 27'50	-0°29'56
behind sun begin	2250 May 10 16:34	19° \mathbb{B} 36'28		minimum elong	2251 Apr 25 03:50	4° \mathbb{B} 35'48	0°29'37
behind sun end	2250 May 11 02:55	20° \mathbb{B} 32'28		asc. node	2251 Apr 27 23:36	10° \mathbb{B} 36'42	
asc. node	2250 May 11 02:34	20° \mathbb{B} 30'37		evening rise	2251 May 02 08:23	19° \mathbb{B} 53'41	
	2250 May 15 11:30	0° \mathbb{I}			2251 May 07 07:50	0° \mathbb{I}	
evening rise	2250 May 17 21:13	5° \mathbb{I} 09'10		evening max el	2251 May 23 11:55	24° \mathbb{I} 04'01	22°10'46
	2250 May 31 03:51	0° \mathbb{E}			2251 Jun 02 01:46	0° \mathbb{E}	
evening max el	2250 Jun 10 20:02	13° \mathbb{E} 34'17	23°46'44	retrograde	2251 Jun 05 07:53	0° \mathbb{E} 24'34	
desc. node	2250 Jun 18 05:41	18° \mathbb{E} 56'43		desc. node	2251 Jun 05 02:40	0° \mathbb{E} 24'28	
retrograde	2250 Jun 24 13:10	20° \mathbb{E} 27'03		evening set	2251 Jun 08 04:05	0° \mathbb{E} 06'40	
evening set	2250 Jun 28 17:58	19° \mathbb{E} 48'16			2251 Jun 08 16:02	30° \mathbb{R} \mathbb{I}	
min. Earth dist.	2250 Jul 05 06:32	16° \mathbb{E} 43'03	0.56131 AU	min. Earth dist.	2251 Jun 16 17:47	26° \mathbb{I} 26'11	0.55093 AU
inferior conj	2250 Jul 07 13:07	15° \mathbb{E} 20'26	-4°35'37	inferior conj	2251 Jun 17 12:36	25° \mathbb{I} 59'44	-3°23'02
minimum elong	2250 Jul 07 07:24	15° \mathbb{E} 29'08	4°34'45	minimum elong	2251 Jun 17 04:38	26° \mathbb{I} 10'56	3°20'48
morning rise	2250 Jul 15 23:27	11° \mathbb{E} 23'14		morning rise	2251 Jun 26 06:58	22° \mathbb{I} 07'44	
direct	2250 Jul 18 17:15	11° \mathbb{E} 04'09		direct	2251 Jun 29 07:41	21° \mathbb{I} 47'11	
morning max el	2250 Jul 28 19:50	15° \mathbb{E} 45'22	20°00'10	morning max el	2251 Jul 11 01:28	27° \mathbb{I} 15'53	21°23'31
asc. node	2250 Aug 07 01:50	27° \mathbb{E} 56'49			2251 Jul 13 17:26	0° \mathbb{E}	
	2250 Aug 08 06:41	0° \mathbb{O}		asc. node	2251 Jul 24 22:52	16° \mathbb{E} 54'24	
morning set	2250 Aug 15 21:55	14° \mathbb{O} 37'14		morning set	2251 Jul 31 06:19	29° \mathbb{E} 22'45	
	2250 Aug 23 11:22	0° \mathbb{P}			2251 Jul 31 13:30	0° \mathbb{O}	
superior conj	2250 Aug 23 16:25	0° \mathbb{P} 25'15	1°45'33	superior conj	2251 Aug 07 14:34	14° \mathbb{O} 45'32	1°42'31
minimum elong	2250 Aug 23 16:34	0° \mathbb{P} 26'01	1°45'33	minimum elong	2251 Aug 07 13:20	14° \mathbb{O} 39'07	1°42'27
max. Earth dist.	2250 Aug 29 05:29	11° \mathbb{P} 14'24	1.36919 AU	max. Earth dist.	2251 Aug 11 16:43	23° \mathbb{O} 06'33	1.35185 AU
evening rise	2250 Sep 02 01:42	18° \mathbb{P} 21'55			2251 Aug 15 04:59	0° \mathbb{P}	
	2250 Sep 08 18:01	0° \mathbb{L}		evening rise	2251 Aug 16 00:05	1° \mathbb{P} 31'13	
desc. node	2250 Sep 14 05:02	8° \mathbb{L} 50'06		desc. node	2251 Sep 01 02:03	28° \mathbb{P} 58'55	
	2250 Sep 29 02:32	0° \mathbb{M}			2251 Sep 01 18:12	0° \mathbb{L}	
evening max el	2250 Oct 07 20:38	9° \mathbb{M} 55'03	25°42'24	evening max el	2251 Sep 20 08:51	23° \mathbb{L} 32'36	26°40'36
retrograde	2250 Oct 20 03:31	16° \mathbb{M} 56'34		retrograde	2251 Sep 29 11:35	0° \mathbb{M}	
evening set	2250 Oct 26 04:46	14° \mathbb{M} 25'07			2251 Oct 03 08:14	0° \mathbb{M} 46'53	
min. Earth dist.	2250 Oct 30 12:59	9° \mathbb{M} 40'32	0.66935 AU		2251 Oct 06 22:46	30° \mathbb{R} \mathbb{L}	
inferior conj	2250 Oct 31 19:02	8° \mathbb{M} 04'55	-0°46'25				

evening set	2251 Oct 09 22:46	28° Ω 05'32		retrograde	2252 Sep 15 07:27	14° Ω 16'44	
min. Earth dist.	2251 Oct 13 23:45	23° Ω 57'30	0.65970 AU	evening set	2252 Sep 22 08:03	11° Ω 33'30	
inferior conj	2251 Oct 15 17:35	21° Ω 53'17	-1°44'57	min. Earth dist.	2252 Sep 26 02:38	8° Ω 01'09	0.64646 AU
minimum elong	2251 Oct 15 20:24	21° Ω 44'54	1°43'48	inferior conj	2252 Sep 28 09:00	5° Ω 33'25	-2°43'31
asc. node	2251 Oct 20 22:04	16° Ω 41'34		minimum elong	2252 Sep 28 13:21	5° Ω 21'34	2°41'57
morning rise	2251 Oct 21 18:40	16° Ω 10'08		morning rise	2252 Oct 04 19:39	0° Ω 04'39	
direct	2251 Oct 24 16:24	15° Ω 23'00			2252 Oct 04 23:56	30° \mathbb{R} \mathbb{M}	
morning max el	2251 Oct 31 07:11	19° Ω 00'00	18°27'20	asc. node	2252 Oct 06 19:06	29° \mathbb{M} 30'58	
	2251 Nov 08 15:42	0° \mathbb{M}		direct	2252 Oct 07 10:41	29° \mathbb{M} 28'45	
morning set	2251 Nov 20 02:59	18° \mathbb{M} 12'05			2252 Oct 09 21:32	0° Ω	
	2251 Nov 27 12:07	0° \mathbb{X}		morning max el	2252 Oct 13 22:45	2° Ω 56'17	18°00'34
desc. node	2251 Nov 28 01:19	0° \mathbb{X} 52'26		morning set	2252 Oct 31 12:21	29° Ω 31'46	
					2252 Oct 31 19:04	0° \mathbb{M}	
superior conj	2251 Dec 05 17:33	12° \mathbb{X} 59'14	-0°50'01	desc. node	2252 Nov 13 22:22	21° \mathbb{M} 37'30	
minimum elong	2251 Dec 05 11:11	12° \mathbb{X} 34'16	0°49'11				
max. Earth dist.	2251 Dec 06 18:43	14° \mathbb{X} 38'06	1.45164 AU	superior conj	2252 Nov 14 03:42	21° \mathbb{M} 58'56	-0°01'31
	2251 Dec 16 13:38	0° \mathbb{Z}		minimum elong	2252 Nov 14 03:30	21° \mathbb{M} 58'09	0°01'30
evening rise	2251 Dec 21 19:53	8° \mathbb{Z} 17'14		behind sun begin	2252 Nov 13 17:03	21° \mathbb{M} 16'12	
greatest brilliancy	2251 Dec 31 16:13	23° \mathbb{Z} 47'18	-0.8m	behind sun end	2252 Nov 14 13:57	22° \mathbb{M} 40'02	
	2252 Jan 04 17:41	0° \approx		max. Earth dist.	2252 Nov 18 13:29	29° \mathbb{M} 00'03	1.44769 AU
evening max el	2252 Jan 13 13:22	11° \approx 36'51	19°08'17		2252 Nov 19 04:40	0° \mathbb{X}	
asc. node	2252 Jan 16 21:20	14° \approx 24'21		evening rise	2252 Nov 30 11:32	17° \mathbb{X} 35'02	
retrograde	2252 Jan 20 12:33	15° \approx 35'06			2252 Dec 08 14:02	0° \mathbb{Z}	
evening set	2252 Jan 23 20:59	14° \approx 29'42		greatest brilliancy	2252 Dec 14 15:28	9° \mathbb{Z} 05'57	-0.6m
inferior conj	2252 Jan 29 11:01	8° \approx 40'46	3°21'13	evening max el	2252 Dec 26 18:22	25° \mathbb{Z} 06'35	20°01'49
minimum elong	2252 Jan 29 08:51	8° \approx 47'41	3°20'52	asc. node	2253 Jan 02 18:21	29° \mathbb{Z} 33'11	
min. Earth dist.	2252 Jan 30 22:04	6° \approx 49'18	0.65967 AU	retrograde	2253 Jan 03 10:18	29° \mathbb{Z} 35'38	
morning rise	2252 Feb 03 20:26	2° \approx 28'46		evening set	2253 Jan 07 02:38	28° \mathbb{Z} 16'34	
	2252 Feb 07 23:35	30° \mathbb{R} \mathbb{Z}		inferior conj	2253 Jan 12 13:03	22° \mathbb{Z} 13'54	2°52'34
direct	2252 Feb 10 06:33	29° \mathbb{Z} 39'27		minimum elong	2253 Jan 12 10:27	22° \mathbb{Z} 22'35	2°51'54
	2252 Feb 12 16:16	0° \approx		min. Earth dist.	2253 Jan 13 10:14	21° \mathbb{Z} 02'54	0.66979 AU
morning max el	2252 Feb 23 01:48	7° \approx 13'31	26°23'50	morning rise	2253 Jan 17 18:04	16° \mathbb{Z} 00'27	
desc. node	2252 Feb 24 00:29	8° \approx 11'47		direct	2253 Jan 23 15:09	13° \mathbb{Z} 23'10	
	2252 Mar 11 18:21	0° \mathbb{X}		morning max el	2253 Feb 04 10:39	20° \mathbb{Z} 26'12	25°06'31
	2252 Mar 29 14:57	0° \mathbb{Y}		desc. node	2253 Feb 09 21:32	26° \mathbb{Z} 31'57	
morning set	2252 Mar 30 04:00	1° \mathbb{Y} 01'05			2253 Feb 12 16:10	0° \approx	
max. Earth dist.	2252 Apr 03 06:21	8° \mathbb{Y} 53'40	1.34944 AU		2253 Mar 04 22:38	0° \mathbb{X}	
				morning set	2253 Mar 12 15:18	13° \mathbb{X} 14'35	
superior conj	2252 Apr 08 00:27	18° \mathbb{Y} 27'16	-0°57'59	max. Earth dist.	2253 Mar 16 07:11	19° \mathbb{X} 55'37	1.36722 AU
minimum elong	2252 Apr 08 03:24	18° \mathbb{Y} 42'23	0°57'27		2253 Mar 21 13:51	0° \mathbb{Y}	
asc. node	2252 Apr 13 20:38	0° \mathbb{B} 35'15					
	2252 Apr 13 13:52	0° \mathbb{B}		superior conj	2253 Mar 22 13:09	1° \mathbb{Y} 54'21	-1°24'34
evening rise	2252 Apr 15 16:52	4° \mathbb{B} 24'44		minimum elong	2253 Mar 22 17:13	2° \mathbb{Y} 14'25	1°23'59
	2252 Apr 30 04:49	0° \mathbb{I}		evening rise	2253 Mar 30 20:31	18° \mathbb{Y} 35'44	
evening max el	2252 May 04 12:48	4° \mathbb{I} 57'49	20°44'31	asc. node	2253 Mar 31 17:39	20° \mathbb{Y} 21'46	
retrograde	2252 May 15 21:02	10° \mathbb{I} 29'05			2253 Apr 05 17:07	0° \mathbb{B}	
evening set	2252 May 17 23:37	10° \mathbb{I} 18'24		evening max el	2253 Apr 17 01:40	16° \mathbb{B} 31'04	19°35'27
desc. node	2252 May 21 23:40	9° \mathbb{I} 05'25		retrograde	2253 Apr 26 16:16	21° \mathbb{B} 09'40	
inferior conj	2252 May 27 06:16	6° \mathbb{I} 20'37	-1°32'05	evening set	2253 Apr 28 16:58	20° \mathbb{B} 58'10	
minimum elong	2252 May 27 01:56	6° \mathbb{I} 26'51	1°30'31	inferior conj	2253 May 07 08:46	16° \mathbb{B} 54'14	0°25'56
min. Earth dist.	2252 May 28 06:07	5° \mathbb{I} 46'31	0.54959 AU	minimum elong	2253 May 07 09:53	16° \mathbb{B} 52'28	0°25'33
morning rise	2252 Jun 05 03:42	2° \mathbb{I} 13'51		desc. node	2253 May 08 20:41	15° \mathbb{B} 57'04	
direct	2252 Jun 08 17:08	1° \mathbb{I} 46'33		min. Earth dist.	2253 May 09 20:27	15° \mathbb{B} 19'51	0.55785 AU
morning max el	2252 Jun 21 21:19	8° \mathbb{I} 06'55	23°01'37	morning rise	2253 May 16 00:07	12° \mathbb{B} 16'25	
	2252 Jul 07 12:22	0° \mathbb{E}		direct	2253 May 20 11:15	11° \mathbb{B} 31'38	
asc. node	2252 Jul 10 19:54	6° \mathbb{E} 19'11		morning max el	2253 Jun 03 12:01	18° \mathbb{B} 35'10	24°43'27
morning set	2252 Jul 14 17:17	14° \mathbb{E} 16'28			2253 Jun 12 23:59	0° \mathbb{I}	
				asc. node	2253 Jun 27 16:56	26° \mathbb{I} 03'20	
superior conj	2252 Jul 21 19:29	29° \mathbb{E} 26'13	1°33'15	morning set	2253 Jun 29 05:05	29° \mathbb{I} 12'26	
minimum elong	2252 Jul 21 17:24	29° \mathbb{E} 15'06	1°33'03		2253 Jun 29 14:05	0° \mathbb{E}	
	2252 Jul 22 01:49	0° \mathbb{Q}					
max. Earth dist.	2252 Jul 24 12:53	5° \mathbb{Q} 12'27	1.33824 AU	superior conj	2253 Jul 06 04:36	14° \mathbb{E} 18'33	1°18'53
evening rise	2252 Jul 29 12:13	15° \mathbb{Q} 21'00		minimum elong	2253 Jul 06 02:12	14° \mathbb{E} 05'29	1°18'33
	2252 Aug 06 07:57	0° \mathbb{M}		max. Earth dist.	2253 Jul 07 17:25	17° \mathbb{E} 38'22	1.32876 AU
desc. node	2252 Aug 17 23:02	18° \mathbb{M} 42'30		evening rise	2253 Jul 13 10:13	29° \mathbb{E} 39'34	
	2252 Aug 26 10:34	0° Ω			2253 Jul 13 14:14	0° \mathbb{Q}	
evening max el	2252 Sep 01 20:45	6° Ω 57'58	27°17'02		2253 Jul 30 09:42	0° \mathbb{M}	

desc. node	2253 Aug 04 20:02	7° \cap 49'35		2254 Jul 05 15:03	0° Ω	
evening max el	2253 Aug 15 06:43	19° \cap 58'33	27°25'14	2254 Jul 22 17:02	26° Ω 05'10	
retrograde	2253 Aug 29 00:26	27° \cap 15'50		2254 Jul 26 03:44	0° \cap	
evening set	2253 Sep 05 05:20	24° \cap 42'14		2254 Jul 28 12:20	2° \cap 22'10	27°00'48
min. Earth dist.	2253 Sep 08 19:52	21° \cap 40'46	0.62982 AU	2254 Aug 11 10:03	9° \cap 35'31	
inferior conj	2253 Sep 11 14:30	18° \cap 58'10	-3°38'53	2254 Aug 18 10:24	7° \cap 24'38	
minimum elong	2253 Sep 11 19:51	18° \cap 45'06	3°37'22	2254 Aug 22 02:37	4° \cap 43'41	0.61049 AU
morning rise	2253 Sep 18 11:46	13° \cap 46'59		2254 Aug 25 06:54	1° \cap 59'49	-4°25'45
direct	2253 Sep 20 22:46	13° \cap 18'48		2254 Aug 25 11:55	1° \cap 48'58	4°24'48
asc. node	2253 Sep 23 16:08	13° \cap 54'13		2254 Aug 27 16:35	30° $\kappa\Omega$	
morning max el	2253 Sep 27 14:53	16° \cap 44'59	17°51'24	2254 Sep 01 15:11	27° Ω 09'17	
	2253 Oct 07 00:14	0° Ω		2254 Sep 04 01:01	26° Ω 45'56	
morning set	2253 Oct 13 21:37	11° Ω 59'58		2254 Sep 10 13:12	29° Ω 43'04	
	2253 Oct 24 06:52	0° \cap		2254 Sep 10 20:37	0° \cap	
				2254 Sep 11 04:35	0° \cap 18'56	18°00'57
superior conj	2253 Oct 25 13:43	2° \cap 09'36	0°41'44	2254 Sep 27 00:33	25° \cap 18'39	
minimum elong	2253 Oct 25 17:33	2° \cap 25'40	0°41'13	2254 Sep 29 13:28	0° Ω	
desc. node	2253 Oct 31 19:23	12° \cap 24'49				
max. Earth dist.	2253 Nov 01 05:24	13° \cap 05'11	1.43690 AU	2254 Oct 07 02:36	13° Ω 38'58	1°13'52
evening rise	2253 Nov 09 19:58	26° \cap 39'58		2254 Oct 07 07:00	13° Ω 58'24	1°13'23
	2253 Nov 11 23:55	0° κ		2254 Oct 14 16:55	26° Ω 39'49	1.42064 AU
	2253 Dec 02 13:35	0° Σ		2254 Oct 16 17:25	0° \cap	
evening max el	2253 Dec 09 17:56	8° Σ 37'31	21°08'37	2254 Oct 18 16:25	3° \cap 11'07	
retrograde	2253 Dec 18 07:59	13° Σ 43'03		2254 Oct 20 14:15	6° \cap 14'59	
asc. node	2253 Dec 20 15:23	13° Σ 13'30		2254 Nov 05 06:24	0° κ	
evening set	2253 Dec 22 10:05	12° Σ 08'48		2254 Nov 22 12:10	22° κ 09'54	22°24'37
inferior conj	2253 Dec 27 18:46	5° Σ 55'34	2°15'14	2254 Dec 02 03:51	27° κ 54'11	
minimum elong	2253 Dec 27 16:17	6° Σ 04'08	2°14'24	2254 Dec 06 17:38	26° κ 03'22	
min. Earth dist.	2253 Dec 28 03:35	5° Σ 25'12	0.67596 AU	2254 Dec 07 12:26	25° κ 21'37	
morning rise	2254 Jan 01 22:17	29° κ 42'37		2254 Dec 12 02:09	19° κ 42'58	1°30'52
	2254 Jan 01 14:41	30° κ 42'37		2254 Dec 12 00:14	19° κ 49'36	1°30'07
direct	2254 Jan 07 04:38	27° κ 24'36		2254 Dec 11 23:41	19° κ 51'28	0.67848 AU
	2254 Jan 13 13:49	0° Σ		2254 Dec 17 06:41	13° κ 32'25	
morning max el	2254 Jan 17 19:09	3° Σ 43'42	23°39'13	2254 Dec 21 22:06	11° κ 37'01	
desc. node	2254 Jan 27 18:36	15° Σ 39'03		2254 Dec 31 06:35	17° κ 07'27	22°11'36
	2254 Feb 06 21:42	0° \approx		2255 Jan 10 19:54	0° Σ	
morning set	2254 Feb 22 03:36	24° \approx 17'47		2255 Jan 14 15:39	5° Σ 19'26	
	2254 Feb 25 10:54	0° κ		2255 Jan 31 00:13	0° \approx	
max. Earth dist.	2254 Feb 26 02:07	1° κ 06'46	1.38809 AU	2255 Feb 02 11:22	3° \approx 57'15	
				2255 Feb 07 23:30	13° \approx 02'07	1.40958 AU
superior conj	2254 Mar 05 12:43	14° κ 39'46	-1°47'06			
minimum elong	2254 Mar 05 16:58	14° κ 59'47	1°46'42	2255 Feb 15 18:19	26° \approx 30'48	-2°01'59
	2254 Mar 13 11:59	0° Υ		2255 Feb 15 20:54	26° \approx 42'17	2°01'53
evening rise	2254 Mar 14 16:40	2° Υ 19'43		2255 Feb 17 16:57	0° κ	
asc. node	2254 Mar 18 14:41	9° Υ 51'19		2255 Feb 26 02:01	15° κ 27'58	
evening max el	2254 Mar 31 01:11	28° Υ 43'19	18°46'07	2255 Mar 05 11:44	28° κ 57'09	
	2254 Apr 01 11:47	0° Σ		2255 Mar 06 02:27	0° Υ	
retrograde	2254 Apr 08 03:57	2° Σ 40'36		2255 Mar 14 08:12	11° Υ 25'30	18°16'47
evening set	2254 Apr 10 09:58	2° Σ 23'31		2255 Mar 21 10:43	14° Υ 58'08	
	2254 Apr 15 11:27	30° κ 40'36		2255 Mar 23 22:47	14° Υ 32'43	
inferior conj	2254 Apr 18 06:09	28° Υ 02'38	2°01'22	2255 Mar 31 00:45	9° Υ 50'57	3°03'22
minimum elong	2254 Apr 18 09:59	27° Υ 55'33	2°00'14	2255 Mar 31 04:11	9° Υ 43'32	3°02'41
min. Earth dist.	2254 Apr 21 13:21	25° Υ 37'45	0.57388 AU	2255 Apr 03 10:45	6° Υ 55'32	0.59437 AU
desc. node	2254 Apr 25 17:44	23° Υ 06'11		2255 Apr 07 07:07	4° Υ 12'35	
morning rise	2254 Apr 26 06:52	22° Υ 51'03		2255 Apr 12 14:48	2° Υ 24'50	
direct	2254 May 01 19:21	21° Υ 36'30		2255 Apr 13 16:10	2° Υ 21'49	
morning max el	2254 May 16 03:33	29° Υ 07'36	26°14'03	2255 Apr 28 00:21	10° Υ 08'34	27°18'55
	2254 May 17 00:41	0° Σ		2255 May 13 07:54	0° Σ	
	2254 Jun 06 14:34	0° Π		2255 May 29 00:52	28° Σ 49'36	
morning set	2254 Jun 13 16:12	14° Π 05'40		2255 May 29 14:19	0° Π	
asc. node	2254 Jun 14 13:59	16° Π 01'04		2255 Jun 01 11:02	6° Π 06'31	
				2255 Jun 04 16:06	13° Π 07'31	1.32166 AU
superior conj	2254 Jun 20 15:58	29° Π 15'58	1°00'17			
minimum elong	2254 Jun 20 13:44	29° Π 03'46	0°59'54	2255 Jun 05 03:43	14° Π 11'26	0°38'10
	2254 Jun 20 23:58	0° Σ		2255 Jun 05 02:07	14° Π 02'36	0°37'50
max. Earth dist.	2254 Jun 21 03:45	0° Σ 20'48	1.32330 AU	2255 Jun 12 00:16	29° Π 06'07	
evening rise	2254 Jun 27 15:05	14° Σ 17'40		2255 Jun 12 10:29	0° Σ	

	2255 Jun 29 01:14	0°♎		evening rise	2256 May 26 11:41	13°♊57'57	
desc. node	2255 Jul 09 14:04	13°♎07'41			2256 Jun 03 12:56	0°♊	
evening max el	2255 Jul 10 11:02	13°♎58'50	26°03'47	evening max el	2256 Jun 21 02:50	24°♊51'07	24°40'54
retrograde	2255 Jul 24 10:49	21°♎08'44		desc. node	2256 Jun 25 11:05	28°♊27'50	
evening set	2255 Jul 30 18:30	19°♎32'04			2256 Jun 27 23:11	0°♎	
min. Earth dist.	2255 Aug 03 23:36	16°♎55'32	0.58986 AU	retrograde	2256 Jul 05 01:09	1°♎54'25	
inferior conj	2255 Aug 07 06:33	14°♎28'21	-4°55'27	evening set	2256 Jul 10 02:51	0°♎56'18	
minimum elong	2255 Aug 07 08:58	14°♎23'48	4°55'16		2256 Jul 12 06:13	30°♋♊	
morning rise	2255 Aug 15 01:36	10°♎00'50		min. Earth dist.	2256 Jul 15 13:59	28°♊05'44	0.57049 AU
direct	2255 Aug 17 13:01	9°♎40'14		inferior conj	2256 Jul 18 10:29	26°♊14'38	-4°55'06
morning max el	2255 Aug 25 12:40	13°♎29'42	18°30'36	minimum elong	2256 Jul 18 07:51	26°♊18'56	4°54'55
asc. node	2255 Aug 28 10:16	16°♎42'46		morning rise	2256 Jul 26 15:33	22°♊08'46	
	2255 Sep 05 18:56	0°♎		direct	2256 Jul 29 06:29	21°♊49'36	
morning set	2255 Sep 10 16:03	9°♎13'40		morning max el	2256 Aug 07 12:08	26°♊07'55	19°21'24
					2256 Aug 11 00:16	0°♎	
superior conj	2255 Sep 19 14:14	26°♎15'46	1°34'09	asc. node	2256 Aug 14 07:20	4°♎38'12	
minimum elong	2255 Sep 19 17:16	26°♎29'53	1°33'55	morning set	2256 Aug 24 16:14	23°♎34'11	
	2255 Sep 21 14:53	0°♎			2256 Aug 27 21:15	0°♎	
max. Earth dist.	2255 Sep 26 23:25	9°♎32'51	1.40093 AU				
evening rise	2255 Oct 01 05:56	16°♎49'27		superior conj	2256 Sep 01 18:57	9°♎43'39	1°43'57
desc. node	2255 Oct 05 13:26	23°♎53'06		minimum elong	2256 Sep 01 20:06	9°♎49'18	1°43'54
	2255 Oct 09 10:23	0°♎		max. Earth dist.	2256 Sep 08 03:08	21°♎44'41	1.38035 AU
	2255 Oct 30 21:29	0°♎		evening rise	2256 Sep 11 21:31	28°♎30'40	
evening max el	2255 Nov 05 02:18	5°♎44'58	23°44'33		2256 Sep 12 17:56	0°♎	
retrograde	2255 Nov 15 20:39	12°♎05'54		desc. node	2256 Sep 21 10:25	14°♎26'22	
evening set	2255 Nov 20 23:40	9°♎58'01			2256 Oct 01 19:58	0°♎	
asc. node	2255 Nov 24 09:29	6°♎14'42		evening max el	2256 Oct 17 14:25	19°♎23'06	25°01'56
inferior conj	2255 Nov 26 09:23	3°♎34'13	0°40'51	retrograde	2256 Oct 29 09:26	26°♎13'29	
minimum elong	2255 Nov 26 08:26	3°♎37'29	0°40'27	evening set	2256 Nov 04 02:31	23°♎49'40	
min. Earth dist.	2255 Nov 25 20:16	4°♎18'56	0.67755 AU	min. Earth dist.	2256 Nov 08 14:57	18°♎44'46	0.67327 AU
	2255 Nov 29 03:29	30°♎♎		inferior conj	2256 Nov 09 14:44	17°♎26'39	-0°13'37
morning rise	2255 Dec 01 17:11	27°♎28'04		minimum elong	2256 Nov 09 15:05	17°♎25'32	0°13'27
direct	2255 Dec 05 18:31	25°♎55'25		transit middle	2256 Nov 09 15:05	17°♎25'32	0°13'27
	2255 Dec 13 07:24	0°♎		transit begin	2256 Nov 09 13:32	17°♎30'37	
morning max el	2255 Dec 14 00:24	0°♎41'37	20°51'21	transit end	2256 Nov 09 16:37	17°♎20'28	
desc. node	2256 Jan 01 12:42	25°♎23'55		asc. node	2256 Nov 10 06:33	16°♎34'59	
	2256 Jan 04 14:26	0°♎		morning rise	2256 Nov 15 03:49	11°♎27'10	
morning set	2256 Jan 12 16:42	12°♎25'02		direct	2256 Nov 18 16:43	10°♎15'00	
max. Earth dist.	2256 Jan 21 04:02	25°♎53'43	1.42867 AU	morning max el	2256 Nov 26 02:02	14°♎26'27	19°43'19
	2256 Jan 23 16:15	0°♎			2256 Dec 07 23:38	0°♎	
				greatest brilliancy	2256 Dec 09 08:05	2°♎00'00	-0.7m
superior conj	2256 Jan 28 00:43	7°♎15'32	-2°04'29	desc. node	2256 Dec 18 09:43	15°♎45'15	
minimum elong	2256 Jan 27 23:00	7°♎08'19	2°04'28	morning set	2256 Dec 21 12:55	20°♎34'58	
evening rise	2256 Feb 08 20:37	27°♎52'19			2256 Dec 27 14:22	0°♎	
	2256 Feb 10 01:17	0°♎		max. Earth dist.	2257 Jan 02 15:30	9°♎31'29	1.44286 AU
asc. node	2256 Feb 20 08:47	17°♎31'52					
evening max el	2256 Feb 25 19:30	24°♎29'16	18°07'11	superior conj	2257 Jan 07 04:40	16°♎48'17	-1°49'43
retrograde	2256 Mar 03 09:22	27°♎53'02		minimum elong	2257 Jan 06 21:30	16°♎19'25	1°49'12
evening set	2256 Mar 06 02:48	27°♎17'46			2257 Jan 15 05:52	0°♎	
inferior conj	2256 Mar 12 14:14	22°♎15'15	3°34'47	evening rise	2257 Jan 20 19:59	9°♎23'44	
minimum elong	2256 Mar 12 15:51	22°♎11'15	3°34'38		2257 Feb 02 07:28	0°♎	
min. Earth dist.	2256 Mar 15 15:42	19°♎13'59	0.61584 AU	asc. node	2257 Feb 06 05:50	5°♎25'42	
morning rise	2256 Mar 19 03:20	16°♎19'39		evening max el	2257 Feb 08 08:05	7°♎46'48	18°16'48
direct	2256 Mar 25 23:41	13°♎55'57		retrograde	2257 Feb 14 19:09	11°♎15'05	
desc. node	2256 Mar 29 11:51	14°♎30'28		evening set	2257 Feb 17 17:50	10°♎28'58	
morning max el	2256 Apr 09 03:37	21°♎51'04	27°48'31	inferior conj	2257 Feb 23 18:32	5°♎07'08	3°42'34
	2256 Apr 16 07:00	0°♎		minimum elong	2257 Feb 23 18:15	5°♎07'55	3°42'34
	2256 May 05 09:31	0°♎		min. Earth dist.	2257 Feb 26 05:56	2°♎22'06	0.63557 AU
morning set	2256 May 12 05:09	13°♎17'57			2257 Feb 28 14:37	30°♎♎	
max. Earth dist.	2256 May 18 02:30	25°♎45'08	1.32386 AU	morning rise	2257 Mar 01 17:49	29°♎01'57	
asc. node	2256 May 18 08:05	26°♎15'27		direct	2257 Mar 08 15:58	26°♎16'46	
				desc. node	2257 Mar 16 08:54	29°♎03'16	
superior conj	2256 May 19 14:11	28°♎59'22	0°13'13		2257 Mar 17 16:53	0°♎	
minimum elong	2256 May 19 13:34	28°♎56'02	0°13'04	morning max el	2257 Mar 22 11:29	4°♎12'42	27°40'48
behind sun begin	2256 May 19 10:39	28°♎40'06			2257 Apr 10 20:41	0°♎	
behind sun end	2256 May 19 16:29	29°♎11'58		morning set	2257 Apr 26 02:43	27°♎23'16	
	2256 May 20 01:17	0°♎			2257 Apr 27 09:56	0°♎	

max. Earth dist.	2257 May 01 06:53	8°♄00'35	1.33019 AU	morning set	2258 Apr 09 14:23	10°♄54'49	
				max. Earth dist.	2258 Apr 14 01:27	19°♄43'11	1.34105 AU
superior conj	2257 May 03 21:34	13°♄34'14	-0°13'49	superior conj	2258 Apr 17 23:47	27°♄48'39	-0°41'53
minimum elong	2257 May 03 22:15	13°♄37'53	0°13'41	minimum elong	2258 Apr 18 01:54	27°♄59'47	0°41'27
behind sun begin	2257 May 03 19:30	13°♄23'09			2258 Apr 19 00:50	0°♄	
behind sun end	2257 May 04 01:00	13°♄52'37		asc. node	2258 Apr 22 02:08	6°♄27'16	
asc. node	2257 May 05 05:07	16°♄23'58		evening rise	2258 Apr 25 09:43	13°♄26'20	
evening rise	2257 May 10 23:28	28°♄47'03			2258 May 03 21:46	0°♄	
	2257 May 11 13:19	0°♄		evening max el	2258 May 15 11:51	15°♄58'46	21°32'29
	2257 May 28 21:46	0°♄		retrograde	2258 May 27 18:09	21°♄59'19	
evening max el	2257 Jun 02 16:37	5°♄21'00	23°05'30	evening set	2258 May 30 04:32	21°♄45'54	
desc. node	2257 Jun 12 08:06	11°♄30'22		desc. node	2258 May 30 05:08	21°♄45'38	
retrograde	2257 Jun 16 03:15	12°♄03'15		inferior conj	2258 Jun 08 14:20	17°♄45'14	-2°39'15
evening set	2257 Jun 19 16:41	11°♄35'27		minimum elong	2258 Jun 08 07:17	17°♄55'05	2°36'58
min. Earth dist.	2257 Jun 27 01:58	8°♄16'36	0.55585 AU	min. Earth dist.	2258 Jun 08 13:49	17°♄45'57	0.54917 AU
inferior conj	2257 Jun 28 18:57	7°♄16'55	-4°10'48	morning rise	2258 Jun 17 10:49	13°♄49'05	
minimum elong	2257 Jun 28 11:36	7°♄27'39	4°09'16	direct	2258 Jun 20 16:02	13°♄26'28	
morning rise	2257 Jul 07 09:00	3°♄23'55		morning max el	2258 Jul 03 01:38	19°♄17'53	22°03'47
direct	2257 Jul 10 05:00	3°♄04'45			2258 Jul 11 19:28	0°♄	
morning max el	2257 Jul 21 00:36	8°♄05'26	20°33'20	asc. node	2258 Jul 19 01:23	12°♄26'38	
asc. node	2257 Aug 01 04:22	23°♄16'37		morning set	2258 Jul 24 08:02	23°♄02'24	
	2257 Aug 04 19:41	0°♄			2258 Jul 27 15:12	0°♄	
morning set	2257 Aug 08 22:19	8°♄12'53					
superior conj	2257 Aug 16 11:55	23°♄48'46	1°45'06	superior conj	2258 Jul 31 13:18	8°♄18'38	1°39'16
minimum elong	2257 Aug 16 11:25	23°♄46'14	1°45'05	minimum elong	2258 Jul 31 11:38	8°♄09'53	1°39'09
	2257 Aug 19 13:49	0°♄		max. Earth dist.	2258 Aug 04 00:50	15°♄32'24	1.34564 AU
max. Earth dist.	2257 Aug 21 09:56	3°♄36'16	1.36139 AU	evening rise	2258 Aug 08 14:55	24°♄40'32	
evening rise	2257 Aug 25 10:06	11°♄12'17			2258 Aug 11 10:11	0°♄	
	2257 Sep 05 07:00	0°♄		desc. node	2258 Aug 26 04:27	24°♄45'11	
desc. node	2257 Sep 08 07:26	4°♄46'09			2258 Aug 29 19:16	0°♄	
	2257 Sep 27 03:21	0°♄		evening max el	2258 Sep 12 14:53	16°♄37'26	26°59'10
evening max el	2257 Sep 30 02:27	3°♄03'05	26°09'19	retrograde	2258 Sep 25 19:48	23°♄54'07	
retrograde	2257 Oct 12 17:23	10°♄11'56		evening set	2258 Oct 02 14:59	21°♄11'11	
evening set	2257 Oct 19 00:22	7°♄35'34		min. Earth dist.	2258 Oct 06 13:15	17°♄18'15	0.65453 AU
min. Earth dist.	2257 Oct 23 05:26	3°♄06'14	0.66566 AU	inferior conj	2258 Oct 08 12:13	15°♄03'33	-2°09'55
inferior conj	2257 Oct 24 16:23	1°♄17'54	-1°11'06	minimum elong	2258 Oct 08 15:43	14°♄53'30	2°08'34
minimum elong	2257 Oct 24 18:16	1°♄12'04	1°10'18	morning rise	2258 Oct 14 17:11	9°♄25'47	
	2257 Oct 25 17:46	30°♄		asc. node	2258 Oct 15 00:36	9°♄17'01	
asc. node	2257 Oct 28 03:35	27°♄20'17		direct	2258 Oct 17 11:47	8°♄43'48	
morning rise	2257 Oct 30 12:35	25°♄27'41		morning max el	2258 Oct 24 00:33	12°♄15'49	18°13'44
direct	2257 Nov 02 15:09	24°♄32'32			2258 Nov 05 12:36	0°♄	
morning max el	2257 Nov 09 10:46	28°♄19'30	18°50'17	morning set	2258 Nov 11 18:13	10°♄11'05	
	2257 Nov 11 00:04	0°♄		desc. node	2258 Nov 22 03:46	27°♄00'29	
morning set	2257 Dec 01 01:09	29°♄39'09			2258 Nov 24 00:51	0°♄	
	2257 Dec 01 06:27	0°♄					
desc. node	2257 Dec 05 06:43	6°♄18'44		superior conj	2258 Nov 26 13:47	4°♄01'25	-0°29'24
max. Earth dist.	2257 Dec 16 08:03	23°♄40'10	1.45056 AU	minimum elong	2258 Nov 26 10:00	3°♄46'28	0°28'54
				max. Earth dist.	2258 Nov 29 03:17	8°♄03'50	1.45090 AU
superior conj	2257 Dec 17 11:14	25°♄27'02	-1°15'59	evening rise	2258 Dec 12 22:31	29°♄37'50	
minimum elong	2257 Dec 17 02:38	24°♄53'10	1°15'00		2258 Dec 13 04:13	0°♄	
	2257 Dec 20 08:32	0°♄		greatest brilliancy	2258 Dec 24 21:28	18°♄07'51	-0.7m
evening rise	2258 Jan 01 20:35	19°♄57'17			2259 Jan 02 03:50	0°♄	
	2258 Jan 08 01:42	0°♄		evening max el	2259 Jan 06 03:13	4°♄41'09	19°29'21
evening max el	2258 Jan 22 19:23	21°♄12'02	18°44'40	asc. node	2259 Jan 10 23:53	8°♄20'40	
asc. node	2258 Jan 24 02:51	22°♄26'34		retrograde	2259 Jan 13 08:37	8°♄51'09	
retrograde	2258 Jan 29 11:59	24°♄56'15		evening set	2259 Jan 16 20:17	7°♄40'01	
evening set	2258 Feb 01 16:32	23°♄58'14		inferior conj	2259 Jan 22 08:33	1°♄45'05	3°10'16
inferior conj	2258 Feb 07 09:42	18°♄18'46	3°32'54	minimum elong	2259 Jan 22 06:07	1°♄52'59	3°09'45
minimum elong	2258 Feb 07 08:03	18°♄23'51	3°32'42	min. Earth dist.	2259 Jan 23 13:31	0°♄10'39	0.66449 AU
min. Earth dist.	2258 Feb 09 05:32	16°♄05'12	0.65202 AU		2259 Jan 23 16:49	30°♄	
morning rise	2258 Feb 12 23:08	12°♄08'37		morning rise	2259 Jan 27 15:43	25°♄32'31	
direct	2258 Feb 19 15:24	9°♄16'40		direct	2259 Feb 02 20:44	22°♄47'07	
desc. node	2258 Mar 03 05:56	15°♄27'32			2259 Feb 15 02:46	0°♄	
morning max el	2258 Mar 04 21:05	17°♄02'20	26°59'40	morning max el	2259 Feb 15 06:22	0°♄09'03	25°52'52
	2258 Mar 15 16:26	0°♄		desc. node	2259 Feb 18 02:57	3°♄12'17	
	2258 Apr 03 17:14	0°♄			2259 Mar 09 14:46	0°♄	

morning set	2259 Mar 23 12:05	23° H 40'48		2260 Feb 11 01:44	0° \approx	
	2259 Mar 26 20:54	0° Y		2260 Mar 01 10:51	0° H	
max. Earth dist.	2259 Mar 27 08:34	0° Y 55'53	1.35651 AU	morning set	2260 Mar 04 14:18	5° H 25'32
				max. Earth dist.	2260 Mar 08 06:21	11° H 58'21 1.37589 AU
superior conj	2259 Apr 01 18:19	11° Y 35'34	-1°09'34	superior conj	2260 Mar 15 01:53	24° H 45'27 -1°34'49
minimum elong	2259 Apr 01 21:48	11° Y 53'11	1°08'58	minimum elong	2260 Mar 15 06:12	25° H 06'19 1°34'16
asc. node	2259 Apr 08 23:11	26° Y 21'25			2260 Mar 17 18:21	0° Y
evening rise	2259 Apr 09 16:26	27° Y 49'45		evening rise	2260 Mar 23 17:14	11° Y 49'46
	2259 Apr 10 18:03	0° B		asc. node	2260 Mar 25 20:14	16° Y 01'09
evening max el	2259 Apr 27 17:50	27° B 08'37	20°12'52		2260 Apr 02 13:47	0° B
	2259 May 01 06:21	0° II		evening max el	2260 Apr 09 11:22	8° B 57'47 19°11'57
retrograde	2259 May 08 07:55	2° II 16'29		retrograde	2260 Apr 18 09:37	13° B 17'22
evening set	2259 May 10 08:33	2° II 06'02		evening set	2260 Apr 20 12:09	13° B 03'57
	2259 May 16 02:28	30° R B		inferior conj	2260 Apr 28 19:40	8° B 53'13 1°10'17
desc. node	2259 May 17 02:08	29° B 28'08		minimum elong	2260 Apr 28 22:23	8° B 48'37 1°09'22
inferior conj	2259 May 19 10:01	28° B 07'23	-0°40'51	min. Earth dist.	2260 May 01 17:37	6° B 55'48 0.56386 AU
minimum elong	2259 May 19 08:06	28° B 10'13	0°40'09	desc. node	2260 May 02 23:10	6° B 09'10
min. Earth dist.	2259 May 21 02:38	27° B 07'22	0.55205 AU	morning rise	2260 May 07 05:37	4° B 00'43
morning rise	2259 May 28 06:08	23° B 49'08		direct	2260 May 12 03:23	3° B 04'56
direct	2259 Jun 01 04:08	23° B 15'51		morning max el	2260 May 26 08:49	10° B 21'37 25°24'27
	2259 Jun 14 20:19	0° II			2260 Jun 10 06:02	0° II
morning max el	2259 Jun 14 18:24	29° B 55'27	23°45'11	asc. node	2260 Jun 21 19:30	21° II 50'58
	2259 Jul 04 22:23	0° B		morning set	2260 Jun 22 07:21	22° II 53'17
asc. node	2259 Jul 05 22:26	2° B 00'20			2260 Jun 25 14:49	0° B
morning set	2259 Jul 08 19:35	7° B 57'39				
superior conj	2259 Jul 15 20:16	23° B 04'45	1°27'44	superior conj	2260 Jun 29 06:35	7° B 59'57 1°11'29
minimum elong	2259 Jul 15 17:59	22° B 52'28	1°27'28	minimum elong	2260 Jun 29 04:12	7° B 46'56 1°11'07
max. Earth dist.	2259 Jul 18 01:06	27° B 47'50	1.33381 AU	max. Earth dist.	2260 Jun 30 08:38	10° B 22'21 1.32593 AU
	2259 Jul 19 02:03	0° Q		evening rise	2260 Jul 06 08:56	23° B 11'19
evening rise	2259 Jul 23 07:41	8° Q 43'37			2260 Jul 09 18:03	0° Q
	2259 Aug 03 20:33	0° np			2260 Jul 27 16:03	0° np
desc. node	2259 Aug 13 01:28	14° np 14'35		desc. node	2260 Jul 29 22:29	3° np 02'13
evening max el	2259 Aug 26 02:26	29° np 54'12	27°24'14	evening max el	2260 Aug 07 10:46	12° np 40'19 27°18'52
	2259 Aug 26 04:53	0° B		retrograde	2260 Aug 21 06:09	19° np 56'05
retrograde	2259 Sep 08 16:11	7° B 11'47		evening set	2260 Aug 28 10:38	17° np 30'08
evening set	2259 Sep 15 19:36	4° B 31'17		min. Earth dist.	2260 Sep 01 00:46	14° np 39'25 0.62190 AU
min. Earth dist.	2259 Sep 19 12:10	1° B 12'55	0.63985 AU	inferior conj	2260 Sep 04 00:12	11° np 54'10 -4°00'13
	2259 Sep 20 16:27	30° R np		minimum elong	2260 Sep 04 05:38	11° np 41'33 3°58'52
inferior conj	2259 Sep 21 23:48	28° np 37'52	-3°07'37	morning rise	2260 Sep 11 02:10	6° np 51'42
minimum elong	2259 Sep 22 04:40	28° np 25'10	3°06'01	direct	2260 Sep 13 12:23	6° np 25'52
morning rise	2259 Sep 28 14:51	23° np 16'03		asc. node	2260 Sep 17 18:43	7° np 48'10
direct	2259 Oct 01 03:58	22° np 43'41		morning max el	2260 Sep 20 08:18	9° np 53'32 17°53'09
asc. node	2259 Oct 01 21:39	22° np 46'26			2260 Oct 03 14:34	0° B
morning max el	2259 Oct 07 16:42	26° np 09'20	17°54'26	morning set	2260 Oct 06 08:08	4° B 54'36
	2259 Oct 10 23:20	0° B				
morning set	2259 Oct 24 14:35	22° B 02'29		superior conj	2260 Oct 17 06:46	24° B 13'51 0°56'50
	2259 Oct 29 06:31	0° ml		minimum elong	2260 Oct 17 11:12	24° B 32'47 0°56'16
superior conj	2259 Nov 06 08:57	13° ml 27'58	0°18'00		2260 Oct 20 16:40	0° ml
minimum elong	2259 Nov 06 10:55	13° ml 36'02	0°17'43	max. Earth dist.	2260 Oct 24 12:14	6° ml 17'53 1.43054 AU
desc. node	2259 Nov 09 00:47	17° ml 46'40		desc. node	2260 Oct 25 21:50	8° ml 34'14
max. Earth dist.	2259 Nov 11 21:50	22° ml 23'02	1.44392 AU	evening rise	2260 Oct 31 19:56	17° ml 58'39
	2259 Nov 16 17:42	0° x			2260 Nov 08 16:14	0° x
evening rise	2259 Nov 22 09:12	8° x 45'30			2260 Nov 30 12:41	0° B
	2259 Dec 06 11:07	0° B		evening max el	2260 Dec 02 03:06	1° B 42'22 21°39'58
evening max el	2259 Dec 20 05:59	18° B 11'16	20°28'49	retrograde	2260 Dec 11 03:49	7° B 04'48
retrograde	2259 Dec 28 06:35	22° B 55'02		asc. node	2260 Dec 14 17:58	5° B 54'06
asc. node	2259 Dec 28 20:55	22° B 53'03		evening set	2260 Dec 15 10:40	5° B 23'30
evening set	2260 Jan 01 02:56	21° B 29'28			2260 Dec 20 03:35	30° R x
inferior conj	2260 Jan 06 12:23	15° B 21'47	2°37'39	inferior conj	2260 Dec 20 19:05	29° x 06'28 1°57'10
minimum elong	2260 Jan 06 09:47	15° B 30'39	2°36'54	minimum elong	2260 Dec 20 16:47	29° x 14'26 1°56'21
min. Earth dist.	2260 Jan 07 04:02	14° B 28'33	0.67290 AU	min. Earth dist.	2260 Dec 20 22:55	28° x 53'10 0.67748 AU
morning rise	2260 Jan 11 16:28	9° B 08'32		morning rise	2260 Dec 25 22:44	22° x 54'13
direct	2260 Jan 17 07:21	6° B 39'05		direct	2260 Dec 30 22:33	20° x 45'52
morning max el	2260 Jan 28 14:54	13° B 24'04	24°30'04	morning max el	2261 Jan 10 00:24	26° x 44'39 23°01'25
					2261 Jan 13 00:41	0° B
desc. node	2260 Feb 05 00:00	21° B 53'57		desc. node	2261 Jan 21 21:05	11° B 16'32





























































































































	2261 Feb 03 16:30	0°♊		morning set	2262 Jan 24 10:25	24°♊59'28	
morning set	2261 Feb 13 14:55	15°♊53'51			2262 Jan 27 13:23	0°♊	
max. Earth dist.	2261 Feb 18 01:23	23°♊24'38	1.39735 AU	max. Earth dist.	2262 Jan 31 00:57	5°♊41'51	1.41814 AU
	2261 Feb 21 19:38	0°♋					
superior conj	2261 Feb 25 18:22	7°♋08'29	-1°54'37	superior conj	2262 Feb 07 14:44	18°♋32'58	-2°04'52
minimum elong	2261 Feb 25 22:12	7°♋26'07	1°54'21	minimum elong	2262 Feb 07 15:48	18°♋37'39	2°04'52
evening rise	2261 Mar 07 09:14	25°♋19'14		evening rise	2262 Feb 14 01:23	0°♋	
	2261 Mar 09 20:12	0°♌		asc. node	2262 Feb 18 12:50	8°♋09'59	
asc. node	2261 Mar 12 17:17	5°♌21'11			2262 Feb 27 14:19	24°♋15'07	
evening max el	2261 Mar 23 14:23	21°♌23'00	18°31'10	evening max el	2262 Mar 03 09:18	0°♌	
retrograde	2261 Mar 31 05:36	25°♌08'05		retrograde	2262 Mar 06 23:41	4°♌16'11	18°10'22
evening set	2261 Apr 02 14:03	24°♌47'52		evening set	2262 Mar 13 19:28	7°♌43'01	
inferior conj	2261 Apr 10 02:07	20°♌18'23	2°31'48	inferior conj	2262 Mar 16 09:54	7°♌13'35	
minimum elong	2261 Apr 10 06:04	20°♌10'34	2°30'47	minimum elong	2262 Mar 23 05:15	2°♌23'15	3°20'00
min. Earth dist.	2261 Apr 13 12:21	17°♌37'17	0.58220 AU		2262 Mar 23 07:58	2°♌16'59	3°19'35
morning rise	2261 Apr 17 19:05	14°♌53'47		min. Earth dist.	2262 Mar 25 19:38	30°♌♋	
desc. node	2261 Apr 19 20:14	14°♌02'39		morning rise	2262 Mar 26 12:50	29°♋22'01	0.60356 AU
direct	2261 Apr 23 17:05	13°♌24'00		direct	2262 Mar 30 03:56	26°♋36'30	
morning max el	2261 May 08 02:23	21°♌03'53	26°45'40	desc. node	2262 Apr 05 19:11	24°♋30'19	
	2261 May 15 20:24	0°♍			2262 Apr 06 17:17	24°♋32'40	
	2261 Jun 02 22:58	0°♎		morning max el	2262 Apr 17 12:24	0°♌	
morning set	2261 Jun 06 17:36	7°♎43'05			2262 Apr 20 01:54	2°♌22'01	27°36'05
asc. node	2261 Jun 08 16:33	11°♎52'25		morning set	2262 May 10 05:12	0°♍	
					2262 May 22 00:38	22°♍21'19	
superior conj	2261 Jun 13 18:18	22°♎57'06	0°51'19	asc. node	2262 May 25 15:22	0°♎	
minimum elong	2261 Jun 13 16:17	22°♎46'03	0°50'55	max. Earth dist.	2262 May 26 13:36	2°♎00'09	
max. Earth dist.	2261 Jun 13 20:06	23°♎07'02	1.32200 AU		2262 May 28 07:54	5°♎50'50	1.32204 AU
	2261 Jun 16 23:23	0°♏		superior conj	2262 May 29 05:43	7°♎50'29	0°27'54
evening rise	2261 Jun 20 15:51	7°♏54'16		minimum elong	2262 May 29 04:30	7°♎43'45	0°27'38
	2261 Jul 02 05:02	0°♐		evening rise	2262 Jun 05 02:13	22°♎45'12	
desc. node	2261 Jul 16 19:30	20°♐50'03			2262 Jun 08 14:14	0°♏	
evening max el	2261 Jul 20 13:25	24°♐44'01	26°40'23		2262 Jun 26 21:32	0°♐	
	2261 Jul 27 13:11	0°♑		evening max el	2262 Jul 02 09:04	6°♐01'06	25°31'12
retrograde	2261 Aug 03 12:37	1°♑56'58		desc. node	2262 Jul 03 16:31	7°♐13'20	
evening set	2261 Aug 10 07:26	29°♐59'15		retrograde	2262 Jul 16 09:21	13°♐09'06	
	2261 Aug 10 06:55	30°♑♐		evening set	2262 Jul 22 05:27	11°♐49'18	
min. Earth dist.	2261 Aug 14 03:09	27°♐22'32	0.60168 AU	min. Earth dist.	2262 Jul 26 21:11	9°♐08'36	0.58124 AU
inferior conj	2261 Aug 17 09:55	24°♐42'57	-4°41'09	inferior conj	2262 Jul 30 01:26	6°♐54'38	-4°59'54
minimum elong	2261 Aug 17 14:10	24°♐34'16	4°40'32	minimum elong	2262 Jul 30 01:56	6°♐53'45	4°59'53
morning rise	2261 Aug 24 22:53	20°♐02'22		morning rise	2262 Aug 07 00:48	2°♐36'30	
direct	2261 Aug 27 08:56	19°♐40'32		direct	2262 Aug 09 13:22	2°♐16'43	
morning max el	2261 Sep 03 20:06	23°♐19'23	18°11'02	morning max el	2262 Aug 18 00:49	6°♐17'20	18°49'30
asc. node	2261 Sep 04 15:47	24°♐09'11		asc. node	2262 Aug 22 12:50	11°♐34'13	
	2261 Sep 09 04:24	0°♑			2262 Sep 02 04:19	0°♑	
morning set	2261 Sep 19 16:57	18°♑30'11		morning set	2262 Sep 03 12:33	2°♑37'06	
	2261 Sep 25 20:10	0°♒					
superior conj	2261 Sep 29 06:02	6°♒14'07	1°23'51	superior conj	2262 Sep 12 01:34	19°♑14'14	1°39'27
minimum elong	2261 Sep 29 10:00	6°♒31'58	1°23'27	minimum elong	2262 Sep 12 03:48	19°♑24'53	1°39'19
max. Earth dist.	2261 Oct 06 20:59	19°♒33'38	1.41252 AU		2262 Sep 17 21:09	0°♒	
evening rise	2261 Oct 11 22:26	27°♒56'42		max. Earth dist.	2262 Sep 19 01:36	2°♒07'10	1.39219 AU
desc. node	2261 Oct 12 18:51	29°♒19'15		evening rise	2262 Sep 23 00:27	9°♒00'10	
	2261 Oct 13 04:58	0°♓		desc. node	2262 Sep 29 15:51	19°♒58'09	
	2261 Nov 02 08:01	0°♈			2262 Oct 06 03:15	0°♓	
evening max el	2261 Nov 14 19:18	15°♈15'30	22°58'27	evening max el	2262 Oct 28 08:27	28°♓52'30	24°18'14
retrograde	2261 Nov 24 22:40	21°♈16'31			2262 Oct 29 12:31	0°♈	
evening set	2261 Nov 29 17:47	19°♈18'36		retrograde	2262 Nov 08 13:46	5°♈26'46	
asc. node	2261 Dec 01 15:01	17°♈26'59		evening set	2262 Nov 13 22:39	3°♈12'10	
inferior conj	2261 Dec 05 02:38	12°♈56'04	1°10'16		2262 Nov 16 22:55	30°♓♒	
minimum elong	2261 Dec 05 01:05	13°♈01'26	1°09'39	min. Earth dist.	2262 Nov 18 15:46	27°♓47'15	0.67618 AU
min. Earth dist.	2261 Dec 04 19:39	13°♈20'13	0.67849 AU	asc. node	2262 Nov 18 12:04	27°♓59'38	
morning rise	2261 Dec 10 08:17	6°♈46'52		inferior conj	2262 Nov 19 09:18	26°♓48'18	0°18'13
direct	2261 Dec 14 17:30	5°♈01'16		minimum elong	2262 Nov 19 08:51	26°♓49'47	0°18'02
morning max el	2261 Dec 23 14:11	10°♈12'28	21°36'04	morning rise	2262 Nov 24 19:05	20°♓44'27	
	2262 Jan 07 23:16	0°♉		direct	2262 Nov 28 14:58	19°♓20'41	
desc. node	2262 Jan 08 18:08	1°♉08'13		morning max el	2262 Dec 06 11:08	23°♓50'40	20°20'33
					2262 Dec 11 17:53	0°♉	

desc. node	2262 Dec 26 15:08	21° ♄ 20'34			2263 Dec 05 20:50	0° ♄	
	2263 Jan 01 07:28	0° ♄		morning set	2263 Dec 13 09:17	11° ♄ 37'00	
morning set	2263 Jan 03 08:44	3° ♄ 10'03		desc. node	2263 Dec 13 12:09	11° ♄ 48'05	
max. Earth dist.	2263 Jan 13 08:31	18° ♄ 54'38	1.43547 AU		2263 Dec 25 03:52	0° ♄	
				max. Earth dist.	2263 Dec 26 23:12	2° ♄ 50'48	1.44707 AU
superior conj	2263 Jan 19 09:59	28° ♄ 47'13	-2°00'34				
minimum elong	2263 Jan 19 05:52	28° ♄ 30'12	2°00'24	superior conj	2263 Dec 30 03:34	7° ♄ 53'29	-1°37'34
	2263 Jan 20 03:33	0° ♄		minimum elong	2263 Dec 29 18:59	7° ♄ 19'18	1°36'47
evening rise	2263 Jan 31 23:43	20° ♄ 12'26			2264 Jan 12 18:23	0° ♄	
	2263 Feb 06 14:52	0° ♄		evening rise	2264 Jan 13 13:47	1° ♄ 20'22	
asc. node	2263 Feb 14 11:22	12° ♄ 33'50		asc. node	2264 Feb 01 08:23	0° ♄ 07'01	
evening max el	2263 Feb 18 11:56	17° ♄ 27'04	18°09'01		2264 Feb 01 05:49	0° ♄	
retrograde	2263 Feb 24 23:18	20° ♄ 50'51		evening max el	2264 Feb 02 00:17	0° ♄ 48'48	18°26'24
evening set	2263 Feb 27 19:04	20° ♄ 10'56		retrograde	2264 Feb 08 12:39	4° ♄ 22'29	
inferior conj	2263 Mar 06 01:30	15° ♄ 00'01	3°40'33	evening set	2264 Feb 11 13:46	3° ♄ 31'18	
minimum elong	2263 Mar 06 02:16	14° ♄ 58'00	3°40'31		2264 Feb 15 17:00	30° ♄	
min. Earth dist.	2263 Mar 08 21:21	12° ♄ 03'31	0.62462 AU	inferior conj	2264 Feb 17 10:53	28° ♄ 01'25	3°40'17
morning rise	2263 Mar 12 08:17	8° ♄ 59'57		minimum elong	2264 Feb 17 09:57	28° ♄ 04'09	3°40'13
direct	2263 Mar 19 06:39	6° ♄ 25'25		min. Earth dist.	2264 Feb 19 15:32	25° ♄ 28'44	0.64308 AU
desc. node	2263 Mar 24 14:20	7° ♄ 45'02		morning rise	2264 Feb 23 05:31	21° ♄ 53'44	
morning max el	2263 Apr 02 07:09	14° ♄ 21'07	27°49'39	direct	2264 Mar 01 01:53	19° ♄ 04'18	
	2263 Apr 14 22:54	0° ♄		desc. node	2264 Mar 10 11:22	23° ♄ 09'50	
	2263 May 02 17:28	0° ♄		morning max el	2264 Mar 14 16:11	26° ♄ 56'36	27°26'59
morning set	2263 May 06 02:19	6° ♄ 40'21			2264 Mar 17 13:13	0° ♄	
max. Earth dist.	2263 May 11 16:10	18° ♄ 20'11	1.32607 AU		2264 Apr 07 14:04	0° ♄	
asc. node	2263 May 13 10:37	22° ♄ 09'16		morning set	2264 Apr 18 20:04	20° ♄ 32'19	
				max. Earth dist.	2264 Apr 23 17:02	0° ♄ 23'30	1.33434 AU
					2264 Apr 23 12:30	0° ♄	
superior conj	2263 May 13 15:04	22° ♄ 33'22	0°01'58				
minimum elong	2263 May 13 14:58	22° ♄ 32'51	0°01'56	superior conj	2264 Apr 26 20:29	6° ♄ 59'58	-0°25'41
behind sun begin	2263 May 13 09:49	22° ♄ 04'55		minimum elong	2264 Apr 26 21:46	7° ♄ 06'48	0°25'24
behind sun end	2263 May 13 20:07	23° ♄ 00'49		asc. node	2264 Apr 29 07:40	12° ♄ 15'59	
	2263 May 17 01:09	0° ♄		evening rise	2264 May 04 01:21	22° ♄ 22'14	
evening rise	2263 May 20 13:59	7° ♄ 36'34			2264 May 07 18:27	0° ♄	
	2263 Jun 01 07:23	0° ♄		evening max el	2264 May 25 14:16	27° ♄ 08'32	22°24'40
evening max el	2263 Jun 13 23:16	16° ♄ 40'15	24°00'56		2264 May 28 22:32	0° ♄	
desc. node	2263 Jun 20 13:32	21° ♄ 39'09		desc. node	2264 Jun 06 10:34	3° ♄ 32'26	
retrograde	2263 Jun 27 17:59	23° ♄ 36'03		retrograde	2264 Jun 07 14:33	3° ♄ 35'33	
evening set	2263 Jul 02 04:22	22° ♄ 52'38		evening set	2264 Jun 10 14:49	3° ♄ 15'32	
min. Earth dist.	2263 Jul 08 09:57	19° ♄ 51'39	0.56351 AU		2264 Jun 18 07:43	30° ♄	
inferior conj	2263 Jul 10 20:39	18° ♄ 21'22	-4°42'18	min. Earth dist.	2264 Jun 18 21:11	29° ♄ 41'06	0.55191 AU
minimum elong	2263 Jul 10 15:41	18° ♄ 29'03	4°41'40	inferior conj	2264 Jun 19 22:09	29° ♄ 05'47	-3°37'04
morning rise	2263 Jul 19 05:39	14° ♄ 22'17		minimum elong	2264 Jun 19 14:08	29° ♄ 17'08	3°34'56
direct	2263 Jul 21 22:45	14° ♄ 03'10		morning rise	2264 Jun 28 15:31	25° ♄ 14'16	
morning max el	2263 Jul 31 19:36	18° ♄ 37'56	19°49'31	direct	2264 Jul 01 14:51	24° ♄ 54'14	
asc. node	2263 Aug 09 09:52	29° ♄ 48'58			2264 Jul 12 20:16	0° ♄	
	2263 Aug 09 12:33	0° ♄		morning max el	2264 Jul 13 02:59	0° ♄ 15'22	21°10'03
morning set	2263 Aug 18 15:32	17° ♄ 06'10		asc. node	2264 Jul 26 06:53	18° ♄ 41'42	
	2263 Aug 25 00:09	0° ♄			2264 Aug 01 01:59	0° ♄	
superior conj	2263 Aug 26 11:58	2° ♄ 59'04	1°45'23	morning set	2264 Aug 01 23:22	1° ♄ 49'57	
minimum elong	2263 Aug 26 12:22	3° ♄ 01'05	1°45'23				
max. Earth dist.	2263 Sep 01 06:16	14° ♄ 08'46	1.37199 AU	superior conj	2264 Aug 09 08:52	17° ♄ 15'41	1°43'24
evening rise	2263 Sep 05 01:28	21° ♄ 08'12		minimum elong	2264 Aug 09 07:48	17° ♄ 10'13	1°43'22
	2263 Sep 10 03:17	0° ♄		max. Earth dist.	2264 Aug 13 16:10	25° ♄ 59'45	1.35415 AU
desc. node	2263 Sep 16 12:51	10° ♄ 26'35			2264 Aug 15 17:06	0° ♄	
	2263 Sep 30 01:43	0° ♄		evening rise	2264 Aug 17 21:25	4° ♄ 10'25	
evening max el	2263 Oct 10 20:32	12° ♄ 32'51	25°32'17		2264 Sep 01 23:49	0° ♄	
retrograde	2263 Oct 23 00:24	19° ♄ 31'39		desc. node	2264 Sep 02 09:52	0° ♄ 38'31	
evening set	2263 Oct 28 23:36	17° ♄ 02'01		evening max el	2264 Sep 22 08:37	26° ♄ 10'57	26°33'08
min. Earth dist.	2263 Nov 02 08:53	12° ♄ 12'13	0.67049 AU		2264 Sep 26 19:47	0° ♄	
inferior conj	2263 Nov 03 13:18	10° ♄ 41'00	-0°37'40	retrograde	2264 Oct 05 05:59	3° ♄ 24'24	
minimum elong	2263 Nov 03 14:16	10° ♄ 37'53	0°37'15	evening set	2264 Oct 11 18:40	0° ♄ 44'00	
asc. node	2263 Nov 05 09:05	8° ♄ 24'06			2264 Oct 12 14:42	30° ♄	
morning rise	2263 Nov 09 05:12	4° ♄ 45'13		min. Earth dist.	2264 Oct 15 20:39	26° ♄ 30'33	0.66133 AU
direct	2263 Nov 12 13:32	3° ♄ 40'36		inferior conj	2264 Oct 17 12:43	24° ♄ 30'12	-1°36'00
morning max el	2263 Nov 19 15:59	7° ♄ 39'54	19°18'51	minimum elong	2264 Oct 17 15:17	24° ♄ 22'27	1°34'57
greatest brilliancy	2263 Dec 03 14:03	26° ♄ 31'00	-0.7m	asc. node	2264 Oct 22 06:07	19° ♄ 35'11	

morning rise	2264 Oct 23 12:29	18° Ω 45'12	direct	2265 Oct 10 06:21	2° Ω 03'21	
direct	2264 Oct 26 11:22	17° Ω 56'10	morning max el	2265 Oct 16 18:26	5° Ω 31'54	18°03'24
morning max el	2264 Nov 02 03:15	21° Ω 35'31	18°32'48	2265 Nov 02 03:42	0° Π	
	2264 Nov 08 18:36	0° Π	morning set	2265 Nov 03 14:31	2° Π 25'21	
morning set	2264 Nov 22 09:17	21° Π 17'52	desc. node	2265 Nov 16 06:12	23° Π 09'58	
	2264 Nov 27 20:22	0° Υ				
desc. node	2264 Nov 29 09:09	2° Υ 25'44	superior conj	2265 Nov 17 13:18	25° Π 14'25	-0°08'45
			minimum elong	2265 Nov 17 12:13	25° Π 10'05	0°08'35
superior conj	2264 Dec 08 05:44	16° Υ 23'01	-0°57'08	behind sun begin	2265 Nov 17 03:06	24° Π 33'40
minimum elong	2264 Dec 07 22:37	15° Υ 55'02	0°56'15	behind sun end	2265 Nov 17 21:20	25° Π 46'28
max. Earth dist.	2264 Dec 08 17:31	17° Υ 09'16	1.45161 AU		2265 Nov 20 13:10	0° Υ
	2264 Dec 16 21:44	0° Ξ		max. Earth dist.	2265 Nov 21 12:13	1° Υ 31'03
evening rise	2264 Dec 24 04:28	11° Ξ 30'44		evening rise	2265 Dec 03 22:25	20° Υ 53'18
greatest brilliancy	2265 Jan 02 05:20	25° Ξ 49'51	-0.8m		2265 Dec 09 20:28	0° Ξ
	2265 Jan 04 21:40	0° \approx		greatest brilliancy	2265 Dec 17 15:45	11° Ξ 49'07
evening max el	2265 Jan 15 10:16	14° \approx 15'54	19°01'36	evening max el	2265 Dec 29 16:04	27° Ξ 45'41
asc. node	2265 Jan 18 05:25	16° \approx 41'29			2266 Jan 01 02:51	0° \approx
retrograde	2265 Jan 22 07:36	18° \approx 10'21		asc. node	2266 Jan 05 02:27	2° \approx 02'45
evening set	2265 Jan 25 14:56	17° \approx 06'58		retrograde	2266 Jan 06 05:08	2° \approx 09'35
inferior conj	2265 Jan 31 05:43	11° \approx 20'23	3°24'41	evening set	2266 Jan 09 20:10	0° \approx 52'41
minimum elong	2265 Jan 31 03:40	11° \approx 26'52	3°24'21		2266 Jan 10 22:18	30° Υ Ξ
min. Earth dist.	2265 Feb 01 19:01	9° \approx 22'56	0.65783 AU	inferior conj	2266 Jan 15 07:01	24° Ξ 52'01
morning rise	2265 Feb 05 16:03	5° \approx 08'40		minimum elong	2266 Jan 15 04:27	25° Ξ 00'34
direct	2265 Feb 12 03:52	2° \approx 18'15		min. Earth dist.	2266 Jan 16 06:12	23° Ξ 34'48
morning max el	2265 Feb 25 02:09	9° \approx 56'06	26°33'49	morning rise	2266 Jan 20 12:30	18° Ξ 38'43
desc. node	2265 Feb 25 08:23	10° \approx 11'53		direct	2266 Jan 26 11:44	15° Ξ 58'57
	2265 Mar 12 22:32	0° Υ		morning max el	2266 Feb 07 11:03	23° Ξ 07'25
	2265 Mar 31 01:52	0° Υ		desc. node	2266 Feb 12 05:25	28° Ξ 23'28
morning set	2265 Apr 02 02:26	3° Υ 46'45			2266 Feb 13 13:21	0° \approx
max. Earth dist.	2265 Apr 06 06:57	11° Υ 53'10	1.34708 AU		2266 Mar 06 06:50	0° Υ
				morning set	2266 Mar 15 16:38	16° Υ 09'22
superior conj	2265 Apr 10 19:47	21° Υ 03'49	-0°53'48	max. Earth dist.	2266 Mar 19 09:10	22° Υ 56'34
minimum elong	2265 Apr 10 22:31	21° Υ 17'57	0°53'16		2266 Mar 23 01:49	0° Υ
	2265 Apr 15 02:42	0° Υ		superior conj	2266 Mar 25 10:08	4° Υ 36'33
asc. node	2265 Apr 16 04:43	2° Υ 16'15		minimum elong	2266 Mar 25 14:05	4° Υ 56'08
evening rise	2265 Apr 18 10:23	6° Υ 55'53		evening rise	2266 Apr 02 14:56	21° Υ 10'25
	2265 May 01 01:21	0° Π		asc. node	2266 Apr 03 01:47	22° Υ 05'05
evening max el	2265 May 07 13:38	7° Π 58'13	20°56'30		2266 Apr 07 02:10	0° Υ
retrograde	2265 May 19 04:03	13° Π 37'28		evening max el	2266 Apr 20 00:47	19° Υ 25'35
evening set	2265 May 21 07:58	13° Π 26'24		retrograde	2266 Apr 29 21:19	24° Υ 11'22
desc. node	2265 May 24 07:36	12° Π 37'47		evening set	2266 May 01 21:43	24° Υ 00'17
inferior conj	2265 May 30 15:55	9° Π 28'24	-1°50'18	inferior conj	2266 May 10 16:16	19° Υ 58'17
minimum elong	2265 May 30 10:45	9° Π 35'44	1°48'28	minimum elong	2266 May 10 16:40	19° Υ 57'40
min. Earth dist.	2265 May 31 09:34	9° Π 03'20	0.54914 AU	transit middle	2266 May 10 16:40	19° Υ 57'40
morning rise	2265 Jun 08 13:20	5° Π 24'53		transit begin	2266 May 10 13:22	20° Υ 02'47
direct	2265 Jun 12 00:16	4° Π 59'06		transit end	2266 May 10 19:57	19° Υ 52'33
morning max el	2265 Jun 25 00:10	11° Π 12'22	22°46'22	desc. node	2266 May 11 04:38	19° Υ 38'59
	2265 Jul 08 20:11	0° Ξ		min. Earth dist.	2266 May 12 23:34	18° Υ 32'33
asc. node	2265 Jul 13 03:56	8° Ξ 03'11		morning rise	2266 May 19 09:08	15° Υ 25'45
morning set	2265 Jul 17 10:06	16° Ξ 43'07		direct	2266 May 23 16:45	14° Υ 44'18
	2265 Jul 23 15:33	0° Ω		morning max el	2266 Jun 06 15:11	21° Υ 42'12
superior conj	2265 Jul 24 12:59	1° Ω 54'17	1°35'01		2266 Jun 13 20:55	0° Π
minimum elong	2265 Jul 24 11:00	1° Ω 43'41	1°34'50	asc. node	2266 Jun 30 01:00	27° Π 44'56
max. Earth dist.	2265 Jul 27 10:54	8° Ω 02'42	1.34002 AU		2266 Jul 01 03:03	0° Ξ
evening rise	2265 Aug 01 07:49	17° Ω 55'26		morning set	2266 Jul 01 21:55	1° Ξ 39'08
	2265 Aug 07 17:48	0° Π		superior conj	2266 Jul 08 21:39	16° Ξ 45'22
desc. node	2265 Aug 20 06:54	20° Π 26'42		minimum elong	2266 Jul 08 19:16	16° Ξ 32'26
	2265 Aug 27 06:21	0° Ω		max. Earth dist.	2266 Jul 10 14:27	20° Ξ 26'09
evening max el	2265 Sep 04 20:41	9° Ω 38'56	27°13'15		2266 Jul 15 03:07	0° Ω
retrograde	2265 Sep 18 06:09	16° Ω 57'38		evening rise	2266 Jul 16 04:37	2° Ω 10'33
evening set	2265 Sep 25 05:27	14° Ω 14'10			2266 Jul 31 14:28	0° Π
min. Earth dist.	2265 Sep 29 00:56	10° Ω 36'31	0.64865 AU	desc. node	2266 Aug 07 03:56	9° Π 40'11
inferior conj	2265 Oct 01 05:22	8° Ω 11'52	-2°34'45	evening max el	2266 Aug 18 07:15	22° Π 44'34
minimum elong	2265 Oct 01 09:30	8° Ω 00'26	2°33'14		2266 Aug 31 04:51	0° Ω
morning rise	2265 Oct 07 14:31	2° Ω 40'40		retrograde	2266 Sep 01 00:04	0° Ω 01'50
asc. node	2265 Oct 09 03:09	2° Ω 10'11				

	2266 Sep 01 19:07	30° \mathbb{R} \mathbb{M}			2267 Jul 26 15:17	0° \mathbb{M}	
evening set	2266 Sep 08 04:46	27° \mathbb{M} 26'08		evening max el	2267 Jul 31 13:40	5° \mathbb{M} 14'24	27°06'33
min. Earth dist.	2266 Sep 11 19:46	24° \mathbb{M} 20'26	0.63252 AU	retrograde	2267 Aug 14 10:42	12° \mathbb{M} 28'03	
inferior conj	2266 Sep 14 12:34	21° \mathbb{M} 39'32	-3°30'56	evening set	2267 Aug 21 12:33	10° \mathbb{M} 12'55	
minimum elong	2266 Sep 14 17:50	21° \mathbb{M} 26'27	3°29'22	min. Earth dist.	2267 Aug 25 03:58	7° \mathbb{M} 29'56	0.61351 AU
morning rise	2266 Sep 21 08:12	16° \mathbb{M} 25'20		inferior conj	2267 Aug 28 07:09	4° \mathbb{M} 45'16	-4°19'35
direct	2266 Sep 23 19:39	15° \mathbb{M} 56'10		minimum elong	2267 Aug 28 12:21	4° \mathbb{M} 33'49	4°18'30
asc. node	2266 Sep 26 00:12	16° \mathbb{M} 19'27			2267 Sep 04 04:08	30° \mathbb{R} \mathbb{L}	
morning max el	2266 Sep 30 10:40	19° \mathbb{M} 22'02	17°51'34	morning rise	2267 Sep 04 13:48	29° \mathbb{L} 51'32	
	2266 Oct 08 06:19	0° \mathbb{L}		direct	2267 Sep 06 23:42	29° \mathbb{L} 27'33	
morning set	2266 Oct 16 20:40	14° \mathbb{L} 44'47			2267 Sep 09 17:40	0° \mathbb{M}	
	2266 Oct 25 16:35	0° \mathbb{M}		asc. node	2267 Sep 12 21:16	1° \mathbb{M} 56'20	
				morning max el	2267 Sep 14 00:55	2° \mathbb{M} 58'47	17°58'18
superior conj	2266 Oct 28 19:18	5° \mathbb{M} 13'14	0°35'50	morning set	2267 Sep 29 21:20	27° \mathbb{M} 57'09	
minimum elong	2266 Oct 28 22:46	5° \mathbb{M} 27'40	0°35'21		2267 Oct 01 00:05	0° \mathbb{L}	
desc. node	2266 Nov 03 03:15	13° \mathbb{M} 57'14					
max. Earth dist.	2266 Nov 04 04:57	15° \mathbb{M} 40'45	1.43890 AU	superior conj	2267 Oct 10 04:21	16° \mathbb{L} 31'32	1°09'48
evening rise	2266 Nov 13 06:55	29° \mathbb{M} 57'52		minimum elong	2267 Oct 10 08:50	16° \mathbb{L} 51'09	1°09'16
	2266 Nov 13 07:28	0° \mathbb{L}		max. Earth dist.	2267 Oct 17 17:26	29° \mathbb{L} 21'46	1.42333 AU
	2266 Dec 03 13:59	0° \mathbb{L}			2267 Oct 18 02:41	0° \mathbb{M}	
evening max el	2266 Dec 12 16:33	11° \mathbb{L} 16'59	20°57'59	desc. node	2267 Oct 21 00:15	4° \mathbb{M} 43'58	
retrograde	2266 Dec 21 02:55	16° \mathbb{L} 16'36		evening rise	2267 Oct 23 22:44	9° \mathbb{M} 25'59	
asc. node	2266 Dec 22 23:29	15° \mathbb{L} 57'26			2267 Nov 06 11:17	0° \mathbb{L}	
evening set	2266 Dec 25 03:29	14° \mathbb{L} 44'38		evening max el	2267 Nov 25 11:28	24° \mathbb{L} 48'55	22°12'54
inferior conj	2266 Dec 30 12:19	8° \mathbb{L} 32'51	2°21'22		2267 Dec 02 12:54	0° \mathbb{L}	
minimum elong	2266 Dec 30 09:48	8° \mathbb{L} 41'32	2°20'33	retrograde	2267 Dec 04 23:09	0° \mathbb{L} 27'31	
min. Earth dist.	2266 Dec 30 22:52	7° \mathbb{L} 56'35	0.67529 AU		2267 Dec 07 06:15	30° \mathbb{R} \mathbb{L}	
morning rise	2267 Jan 04 15:54	2° \mathbb{L} 19'50		evening set	2267 Dec 09 11:07	28° \mathbb{L} 39'05	
	2267 Jan 09 11:29	30° \mathbb{R} \mathbb{L}		asc. node	2267 Dec 09 20:31	28° \mathbb{L} 19'07	
direct	2267 Jan 10 00:32	29° \mathbb{L} 58'39		inferior conj	2267 Dec 14 19:33	22° \mathbb{L} 19'26	1°37'58
	2267 Jan 10 13:46	0° \mathbb{L}		minimum elong	2267 Dec 14 17:32	22° \mathbb{L} 26'29	1°37'13
morning max el	2267 Jan 20 19:27	6° \mathbb{L} 24'30	23°52'29	min. Earth dist.	2267 Dec 14 18:41	22° \mathbb{L} 22'29	0.67833 AU
desc. node	2267 Jan 30 02:29	17° \mathbb{L} 24'37		morning rise	2267 Dec 19 23:48	16° \mathbb{L} 08'31	
	2267 Feb 08 02:47	0° \mathbb{L}		direct	2267 Dec 24 17:23	14° \mathbb{L} 09'47	
morning set	2267 Feb 25 08:46	27° \mathbb{L} 24'10		morning max el	2268 Jan 03 06:15	19° \mathbb{L} 47'21	22°24'22
	2267 Feb 26 20:53	0° \mathbb{L}			2268 Jan 11 20:27	0° \mathbb{L}	
max. Earth dist.	2267 Mar 01 04:41	4° \mathbb{L} 04'59	1.38493 AU	desc. node	2268 Jan 16 23:30	7° \mathbb{L} 00'33	
					2268 Feb 01 08:03	0° \mathbb{L}	
superior conj	2267 Mar 08 11:58	17° \mathbb{L} 29'10	-1°44'05	morning set	2268 Feb 05 20:56	7° \mathbb{L} 16'21	
minimum elong	2267 Mar 08 16:18	17° \mathbb{L} 49'39	1°43'38	max. Earth dist.	2268 Feb 11 01:25	15° \mathbb{L} 53'02	1.40649 AU
	2267 Mar 14 23:23	0° \mathbb{Y}					
evening rise	2267 Mar 17 12:26	4° \mathbb{Y} 59'08		superior conj	2268 Feb 18 20:32	29° \mathbb{L} 28'55	-2°00'25
asc. node	2267 Mar 20 22:50	11° \mathbb{Y} 37'45		minimum elong	2268 Feb 18 23:31	29° \mathbb{L} 42'22	2°00'17
	2267 Apr 01 11:42	0° \mathbb{L}			2268 Feb 19 03:26	0° \mathbb{L}	
evening max el	2267 Apr 02 22:51	1° \mathbb{L} 32'07	18°52'06	evening rise	2268 Feb 28 23:36	18° \mathbb{L} 13'22	
retrograde	2267 Apr 11 06:12	5° \mathbb{L} 34'33			2268 Mar 06 09:01	0° \mathbb{Y}	
evening set	2267 Apr 13 11:19	5° \mathbb{L} 18'29		asc. node	2268 Mar 06 19:52	0° \mathbb{Y} 47'41	
inferior conj	2267 Apr 21 10:25	1° \mathbb{L} 00'19	1°48'59	evening max el	2268 Mar 16 04:54	14° \mathbb{Y} 10'11	18°19'49
minimum elong	2267 Apr 21 14:05	0° \mathbb{L} 53'43	1°47'52	retrograde	2268 Mar 23 10:22	17° \mathbb{Y} 45'39	
	2267 Apr 22 19:44	30° \mathbb{R} \mathbb{Y}		evening set	2268 Mar 25 21:29	17° \mathbb{Y} 21'39	
min. Earth dist.	2267 Apr 24 15:46	28° \mathbb{Y} 42'03	0.57116 AU	inferior conj	2268 Apr 02 01:57	12° \mathbb{Y} 42'56	2°56'02
desc. node	2267 Apr 28 01:40	26° \mathbb{Y} 36'18		minimum elong	2268 Apr 02 05:34	12° \mathbb{Y} 35'16	2°55'16
morning rise	2267 Apr 29 13:43	25° \mathbb{Y} 53'36		min. Earth dist.	2268 Apr 05 12:21	9° \mathbb{Y} 50'30	0.59118 AU
direct	2267 May 04 22:33	24° \mathbb{Y} 44'14		morning rise	2268 Apr 09 11:03	7° \mathbb{Y} 07'45	
	2267 May 16 19:44	0° \mathbb{L}		desc. node	2268 Apr 13 22:42	5° \mathbb{Y} 30'59	
morning max el	2267 May 19 06:11	2° \mathbb{L} 11'41	26°01'57	direct	2268 Apr 15 17:26	5° \mathbb{Y} 22'29	
	2267 Jun 07 23:41	0° \mathbb{L}		morning max el	2268 Apr 30 02:09	13° \mathbb{Y} 07'38	27°11'26
morning set	2267 Jun 16 09:14	16° \mathbb{L} 32'59			2268 May 13 10:53	0° \mathbb{L}	
asc. node	2267 Jun 16 22:05	17° \mathbb{L} 40'57			2268 May 30 03:12	0° \mathbb{L}	
	2267 Jun 22 14:11	0° \mathbb{L}		morning set	2268 May 30 18:22	1° \mathbb{L} 18'55	
				asc. node	2268 Jun 02 19:09	7° \mathbb{L} 45'50	
superior conj	2267 Jun 23 08:46	1° \mathbb{L} 42'08	1°03'22				
minimum elong	2267 Jun 23 06:30	1° \mathbb{L} 29'37	1°02'58	superior conj	2268 Jun 06 20:34	16° \mathbb{L} 38'24	0°41'44
max. Earth dist.	2267 Jun 24 00:12	3° \mathbb{L} 06'51	1.32388 AU	minimum elong	2268 Jun 06 18:50	16° \mathbb{L} 28'55	0°41'23
evening rise	2267 Jun 30 08:37	16° \mathbb{L} 46'02		max. Earth dist.	2268 Jun 06 12:28	15° \mathbb{L} 53'51	1.32160 AU
	2267 Jul 07 00:58	0° \mathbb{L}			2268 Jun 12 23:38	0° \mathbb{L}	
desc. node	2267 Jul 25 00:58	28° \mathbb{L} 04'47		evening rise	2268 Jun 13 17:16	1° \mathbb{L} 33'28	

	2268 Jun 29 03:08	0°♎	evening rise	2269 May 29 04:26	16°♊25'24	
desc. node	2268 Jul 10 21:58	15°♎20'23		2269 Jun 04 22:00	0°♊	
evening max el	2268 Jul 12 13:23	16°♎58'20 26°14'12	evening max el	2269 Jun 24 06:00	27°♊56'32 24°54'29	
retrograde	2268 Jul 26 13:02	24°♎09'12		2269 Jun 26 13:19	0°♎	
evening set	2268 Aug 02 00:08	22°♎26'42	desc. node	2269 Jun 27 19:00	0°♎58'25	
min. Earth dist.	2268 Aug 06 02:10	19°♎50'52 0.59290 AU	retrograde	2269 Jul 08 05:14	5°♎01'41	
inferior conj	2268 Aug 09 09:31	17°♎19'45 -4°52'35	evening set	2269 Jul 13 11:58	3°♎58'06	
minimum elong	2268 Aug 09 12:31	17°♎14'00 4°52'19	min. Earth dist.	2269 Jul 18 17:25	1°♎10'34 0.57313 AU	
morning rise	2268 Aug 17 03:03	12°♎48'59		2269 Jul 20 12:19	30°♋♊	
direct	2268 Aug 19 14:03	12°♎28'06	inferior conj	2269 Jul 21 16:29	29°♊12'55 -4°57'45	
morning max el	2268 Aug 27 10:07	16°♎14'20 18°24'52	minimum elong	2269 Jul 21 14:42	29°♊15'52 4°57'40	
asc. node	2268 Aug 29 18:20	18°♎46'47	morning rise	2269 Jul 29 20:07	25°♊04'07	
	2268 Sep 06 03:12	0°♐	direct	2269 Aug 01 10:18	24°♊44'53	
morning set	2268 Sep 12 11:14	11°♐47'54	morning max el	2269 Aug 10 11:03	28°♊58'18 19°12'27	
				2269 Aug 11 12:00	0°♎	
superior conj	2268 Sep 21 13:00	28°♐59'59 1°31'47	asc. node	2269 Aug 16 15:22	6°♎34'49	
minimum elong	2268 Sep 21 16:18	29°♐15'12 1°31'30	morning set	2269 Aug 27 10:20	26°♎05'18	
	2268 Sep 22 02:02	0°♊		2269 Aug 29 09:27	0°♐	
max. Earth dist.	2268 Sep 29 00:30	12°♊21'15 1.40397 AU				
evening rise	2268 Oct 03 10:53	19°♊50'57	superior conj	2269 Sep 04 15:31	12°♐21'26 1°43'02	
desc. node	2268 Oct 06 21:16	25°♊27'10	minimum elong	2269 Sep 04 16:57	12°♐28'24 1°42'59	
	2268 Oct 09 17:58	0°♌	max. Earth dist.	2269 Sep 11 04:08	24°♐37'49 1.38338 AU	
	2268 Oct 30 17:59	0°♌		2269 Sep 14 04:09	0°♊	
evening max el	2268 Nov 07 02:00	8°♌23'20 23°32'35	evening rise	2269 Sep 14 23:04	1°♊22'55	
retrograde	2268 Nov 17 16:32	14°♌39'28	desc. node	2269 Sep 23 18:18	16°♊02'20	
evening set	2268 Nov 22 17:29	12°♌34'05		2269 Oct 02 23:44	0°♌	
asc. node	2268 Nov 25 17:33	9°♌21'35	evening max el	2269 Oct 20 14:17	22°♌01'16 24°50'50	
min. Earth dist.	2268 Nov 27 15:21	6°♌49'58 0.67791 AU	retrograde	2269 Nov 01 05:59	28°♌48'00	
inferior conj	2268 Nov 28 02:56	6°♌10'22 0°48'45	evening set	2269 Nov 06 20:54	26°♌26'32	
minimum elong	2268 Nov 28 01:48	6°♌14'13 0°48'17	min. Earth dist.	2269 Nov 11 10:31	21°♌16'17 0.67414 AU	
morning rise	2268 Dec 03 10:06	0°♌03'22	inferior conj	2269 Nov 12 08:40	20°♌03'03 -0°05'05	
	2268 Dec 03 11:50	30°♌♌	minimum elong	2269 Nov 12 08:48	20°♌02'38 0°05'02	
direct	2268 Dec 07 13:23	28°♌27'31	transit middle	2269 Nov 12 08:48	20°♌02'38 0°05'02	
	2268 Dec 11 23:57	0°♌	transit begin	2269 Nov 12 06:10	20°♌11'19	
morning max el	2268 Dec 15 22:59	3°♌19'58 21°02'32	transit end	2269 Nov 12 11:25	19°♌53'58	
desc. node	2269 Jan 02 20:31	27°♌01'46	asc. node	2269 Nov 12 14:35	19°♌43'31	
	2269 Jan 04 20:29	0°♊	morning rise	2269 Nov 17 20:49	14°♌02'16	
morning set	2269 Jan 15 05:26	15°♊52'18	direct	2269 Nov 21 11:27	12°♌47'12	
max. Earth dist.	2269 Jan 23 04:30	28°♊35'23 1.42607 AU	morning max el	2269 Nov 28 23:24	17°♌03'17 19°52'27	
	2269 Jan 24 01:11	0°♋		2269 Dec 09 03:04	0°♌	
			desc. node	2269 Dec 20 17:33	17°♌21'02	
superior conj	2269 Jan 30 06:35	10°♋23'50 -2°05'08	morning set	2269 Dec 25 01:20	23°♌59'57	
minimum elong	2269 Jan 30 05:40	10°♋19'58 2°05'07		2269 Dec 28 22:11	0°♊	
	2269 Feb 10 10:40	0°♋	max. Earth dist.	2270 Jan 05 14:46	12°♊06'25 1.44112 AU	
evening rise	2269 Feb 10 20:37	0°♋44'39				
asc. node	2269 Feb 21 16:53	19°♋27'43	superior conj	2270 Jan 10 14:28	20°♊07'20 -1°53'12	
evening max el	2269 Feb 27 15:43	27°♋11'23 18°07'24	minimum elong	2270 Jan 10 08:01	19°♊41'12 1°52'48	
	2269 Mar 03 13:20	0°♐		2270 Jan 16 14:43	0°♋	
retrograde	2269 Mar 06 06:52	0°♐35'37	evening rise	2270 Jan 23 23:05	12°♋24'26	
evening set	2269 Mar 08 23:29	0°♐01'57		2270 Feb 03 10:25	0°♋	
	2269 Mar 09 01:22	30°♋♋	asc. node	2270 Feb 08 13:54	7°♋28'41	
inferior conj	2269 Mar 15 12:52	25°♋02'37 3°31'40	evening max el	2270 Feb 11 04:20	10°♋27'48 18°14'16	
minimum elong	2269 Mar 15 14:46	24°♋57'58 3°31'28	retrograde	2270 Feb 17 15:13	13°♋54'30	
min. Earth dist.	2269 Mar 18 16:08	22°♋00'30 0.61267 AU	evening set	2270 Feb 20 13:07	13°♋10'03	
morning rise	2269 Mar 22 04:20	19°♋08'55	inferior conj	2270 Feb 26 15:12	7°♋51'07 3°42'37	
direct	2269 Mar 28 23:36	16°♋49'24	minimum elong	2270 Feb 26 15:11	7°♋51'10 3°42'37	
desc. node	2269 Mar 31 19:44	17°♋11'59	min. Earth dist.	2270 Mar 01 04:54	5°♋02'29 0.63280 AU	
morning max el	2269 Apr 12 04:31	24°♋44'14 27°46'30	morning rise	2270 Mar 04 16:18	1°♋47'08	
	2269 Apr 16 23:52	0°♐		2270 Mar 07 12:44	30°♋♋	
	2269 May 06 19:05	0°♋	direct	2270 Mar 11 14:50	29°♋04'08	
morning set	2269 May 14 23:25	15°♋50'19		2270 Mar 15 23:08	0°♋	
asc. node	2269 May 20 16:10	27°♋54'47	desc. node	2270 Mar 18 16:45	1°♋25'04	
max. Earth dist.	2269 May 20 23:19	28°♋33'39 1.32324 AU	morning max el	2270 Mar 25 11:45	7°♋00'29 27°44'12	
	2269 May 21 15:10	0°♊		2270 Apr 12 01:53	0°♐	
			morning set	2270 Apr 28 22:09	29°♐59'48	
superior conj	2269 May 22 07:19	1°♊28'10 0°17'10		2270 Apr 28 22:11	0°♋	
minimum elong	2269 May 22 06:32	1°♊23'53 0°16'59	max. Earth dist.	2270 May 04 04:46	10°♋53'04 1.32899 AU	

superior conj	2270 May 06 15:17	16°  05'43	-0°09'37	superior conj	2271 Apr 20 18:24	0°  23'33	-0°37'37
minimum elong	2270 May 06 15:45	16°  08'14	0°09'31	minimum elong	2271 Apr 20 20:18	0°  33'34	0°37'13
behind sun begin	2270 May 06 11:29	15°  45'18			2271 Apr 20 13:55	0° 	
behind sun end	2270 May 06 20:01	16°  31'12		asc. node	2271 Apr 24 10:14	8°  08'20	
asc. node	2270 May 07 13:12	18°  03'55		evening rise	2271 Apr 28 02:53	15°  56'45	
	2270 May 13 02:02	0° 			2271 May 05 05:00	0° 	
evening rise	2270 May 13 16:17	1°  15'36		evening max el	2271 May 18 13:40	19°  02'45	21°45'39
	2270 May 29 16:00	0° 		retrograde	2271 May 31 00:57	25°  10'28	
evening max el	2270 Jun 05 19:42	8°  28'06	23°19'53	desc. node	2271 Jun 01 13:02	25°  05'20	
desc. node	2270 Jun 14 16:00	14°  23'59		evening set	2271 Jun 02 14:29	24°  15'43	
retrograde	2270 Jun 19 08:58	15°  14'22		min. Earth dist.	2271 Jun 11 17:10	21°  03'00	0.54962 AU
evening set	2270 Jun 23 03:37	14°  43'05		inferior conj	2271 Jun 12 00:10	20°  15'13	-2°55'36
min. Earth dist.	2270 Jun 30 05:36	11°  29'11	0.55765 AU	minimum elong	2271 Jun 11 16:41	21°  03'42	2°53'16
inferior conj	2270 Jul 02 03:35	10°  21'23	-4°20'45	morning rise	2271 Jun 20 20:01	16°  15'56	
minimum elong	2270 Jul 01 20:43	10°  31'33	4°19'26	direct	2271 Jun 23 23:37	16°  13'07	
morning rise	2270 Jul 10 16:20	6°  27'06		morning max el	2271 Jul 06 03:44	22°  12'09	21°49'24
direct	2270 Jul 13 11:32	6°  08'01			2271 Jul 12 18:19	0° 	
morning max el	2270 Jul 24 01:09	11°  01'46	20°21'18	asc. node	2271 Jul 21 09:29	14°  13'24	
asc. node	2270 Aug 03 12:25	25°  07'22		morning set	2271 Jul 27 00:59	25°  29'55	
	2270 Aug 06 05:27	0° 			2271 Jul 29 04:29	0° 	
morning set	2270 Aug 11 15:40	10°  41'27					
				superior conj	2271 Aug 03 07:13	10°  48'11	1°40'33
superior conj	2270 Aug 19 06:53	26°  21'21	1°45'24	minimum elong	2271 Aug 03 05:42	10°  40'14	1°40'27
minimum elong	2270 Aug 19 06:36	26°  19'57	1°45'24	max. Earth dist.	2271 Aug 06 23:48	18°  25'33	1.34775 AU
	2270 Aug 21 02:25	0° 		evening rise	2271 Aug 11 11:28	27°  18'07	
max. Earth dist.	2270 Aug 24 10:05	6°  30'28	1.36407 AU		2271 Aug 12 21:26	0° 	
evening rise	2270 Aug 28 08:48	13°  56'03		desc. node	2271 Aug 28 12:22	26°  17'22	
	2270 Sep 06 14:58	0° 			2271 Aug 30 21:58	0° 	
desc. node	2270 Sep 10 15:19	6°  24'28		evening max el	2271 Sep 15 14:51	19°  17'50	26°53'10
	2270 Sep 27 19:09	0° 		retrograde	2271 Sep 28 17:52	26°  33'38	
evening max el	2270 Oct 03 02:21	5°  41'36	26°00'15	evening set	2271 Oct 05 11:30	23°  51'09	
retrograde	2270 Oct 15 14:38	12°  48'05		min. Earth dist.	2271 Oct 09 10:43	19°  52'57	0.65640 AU
evening set	2270 Oct 21 19:36	10°  13'27		inferior conj	2271 Oct 11 07:52	17°  41'53	-2°01'01
min. Earth dist.	2270 Oct 26 01:47	5°  38'41	0.66702 AU	minimum elong	2271 Oct 11 11:08	17°  32'25	1°59'44
inferior conj	2270 Oct 27 10:59	3°  54'46	-1°02'14	morning rise	2271 Oct 17 11:26	12°  42'09	
minimum elong	2270 Oct 27 12:37	3°  49'39	1°01'32	asc. node	2271 Oct 17 08:40	12°  45'46	
asc. node	2270 Oct 30 11:37	0° 		direct	2271 Oct 20 07:07	11°  48'24	
	2270 Oct 30 20:05	30° 		morning max el	2271 Oct 26 20:24	14°  51'56	18°18'10
morning rise	2270 Nov 02 06:00	28°  42'55			2271 Nov 06 18:50	0° 	
direct	2270 Nov 05 10:01	27°  45'23		morning set	2271 Nov 14 22:44	13°  12'31	
	2270 Nov 11 08:03	0° 		desc. node	2271 Nov 24 11:37	28°  13'41	
morning max el	2270 Nov 12 07:09	0° 	18°57'09		2271 Nov 25 09:10	0° 	
	2270 Dec 02 13:50	0° 					
morning set	2270 Dec 04 10:00	2°  53'04		superior conj	2271 Nov 30 01:14	7°  23'26	-0°36'49
desc. node	2270 Dec 07 14:34	7°  53'08		minimum elong	2271 Nov 29 20:29	7°  04'43	0°36'11
max. Earth dist.	2270 Dec 19 06:57	26°  51'23	1.44989 AU	max. Earth dist.	2271 Dec 02 02:24	10°  53'53	1.45134 AU
					2271 Dec 14 11:36	0° 	
superior conj	2270 Dec 20 23:26	28°  51'52	-1°22'08	evening rise	2271 Dec 16 08:23	2°  55'07	
minimum elong	2270 Dec 20 14:35	28°  51'00	1°21'12	greatest brilliancy	2271 Dec 27 14:06	20°  24'27	-0.7m
	2270 Dec 21 16:43	0° 			2272 Jan 03 02:04	0° 	
evening rise	2271 Jan 05 03:12	23°  30'41		evening max el	2272 Jan 09 00:30	7°  21'14	19°21'38
	2271 Jan 09 08:45	0° 		asc. node	2272 Jan 13 07:58	10°  43'52	
evening max el	2271 Jan 25 16:00	23°  52'19	18°39'26	retrograde	2272 Jan 16 03:32	11°  26'52	
asc. node	2271 Jan 26 10:55	24°  38'27		evening set	2272 Jan 19 14:04	10°  47'42	
retrograde	2271 Feb 01 07:11	27°  33'20		inferior conj	2272 Jan 25 02:54	4°  24'45	3°14'21
evening set	2271 Feb 04 10:53	26°  37'04		minimum elong	2272 Jan 25 00:33	4°  32'20	3°13'54
inferior conj	2271 Feb 10 04:58	21°  00'04	3°35'16	min. Earth dist.	2272 Jan 26 09:56	2°  44'23	0.66292 AU
minimum elong	2271 Feb 10 03:29	21°  04'34	3°35'07		2272 Jan 28 16:14	30° 	
min. Earth dist.	2271 Feb 12 03:05	18°  41'17	0.64983 AU	morning rise	2272 Jan 30 10:48	28°  12'23	
morning rise	2271 Feb 15 19:38	14°  50'34		direct	2272 Feb 05 17:40	25°  25'28	
direct	2271 Feb 22 13:11	11°  58'51			2272 Feb 15 05:10	0° 	
desc. node	2271 Mar 05 13:47	17°  34'35		morning max el	2272 Feb 18 06:46	2°  51'46	26°04'03
morning max el	2271 Mar 07 21:11	19°  46'23	27°07'40	desc. node	2272 Feb 20 10:50	5°  08'58	
	2271 Mar 16 15:17	0° 			2272 Mar 09 20:51	0° 	
	2271 Apr 05 02:42	0°		morning set	2272 Mar 25 11:36	26°	
morning set	2271 Apr 12 11:30	13°			2272 Mar 27 08:20	0°	
max. Earth dist.	2271 Apr 17 01:04	22°	1.33916 AU	max. Earth dist.	2272 Mar 29 09:59	3°	1.35395 AU

superior conj	2272 Apr 03 14:15	14°♄14'44	-1°05'29	morning set	2273 Mar 07 17:10	8°♄25'40	
minimum elong	2272 Apr 03 17:34	14°♄31'32	1°04'54	max. Earth dist.	2273 Mar 11 08:46	14°♄59'36	1.37279 AU
asc. node	2272 Apr 10 07:17	28°♄03'59					
evening rise	2272 Apr 11 10:17	0°♄22'49		superior conj	2273 Mar 17 23:44	27°♄30'57	-1°31'16
	2272 Apr 11 05:50	0°♄		minimum elong	2273 Mar 18 03:59	27°♄51'40	1°30'42
evening max el	2272 Apr 29 17:49	0°♄06'28	20°23'35		2273 Mar 19 06:13	0°♄	
	2272 Apr 29 15:10	0°♄		evening rise	2273 Mar 26 12:10	14°♄27'02	
retrograde	2272 May 10 14:18	5°♄22'36		asc. node	2273 Mar 28 04:21	17°♄46'21	
evening set	2272 May 12 15:21	5°♄12'10			2273 Apr 03 17:50	0°♄	
desc. node	2272 May 18 10:04	3°♄07'00		evening max el	2273 Apr 12 09:45	11°♄50'08	19°19'46
inferior conj	2272 May 21 18:51	1°♄14'05	-0°59'03	retrograde	2273 Apr 21 13:39	16°♄16'17	
minimum elong	2272 May 21 16:03	1°♄18'09	0°58'02	evening set	2273 Apr 23 15:22	16°♄03'39	
min. Earth dist.	2272 May 23 05:44	0°♄23'11	0.55097 AU	inferior conj	2273 May 02 01:50	11°♄55'28	0°55'02
	2272 May 23 21:54	30°♄8		minimum elong	2273 May 02 04:03	11°♄51'48	0°54'16
morning rise	2272 May 30 15:37	27°♄00'16		min. Earth dist.	2273 May 04 20:33	10°♄05'50	0.56155 AU
direct	2272 Jun 03 10:27	26°♄29'20		desc. node	2273 May 05 07:04	9°♄49'10	
	2272 Jun 13 04:58	0°♄		morning rise	2273 May 10 13:48	7°♄08'03	
morning max el	2272 Jun 16 21:28	3°♄02'17	23°29'58	direct	2273 May 15 07:44	6°♄16'24	
	2272 Jul 05 09:00	0°♄		morning max el	2273 May 29 11:55	13°♄28'57	25°10'30
asc. node	2272 Jul 07 06:33	3°♄44'14			2273 Jun 11 09:59	0°♄	
morning set	2272 Jul 10 12:23	10°♄24'56		asc. node	2273 Jun 24 03:37	23°♄32'53	
				morning set	2273 Jun 25 00:13	25°♄21'07	
superior conj	2272 Jul 17 13:31	25°♄32'40	1°29'49		2273 Jun 27 04:25	0°♄	
minimum elong	2272 Jul 17 11:18	25°♄20'45	1°29'34				
	2272 Jul 19 15:34	0°♄		superior conj	2273 Jul 01 23:29	10°♄27'23	1°14'14
max. Earth dist.	2272 Jul 19 22:44	0°♄38'02	1.33527 AU	minimum elong	2273 Jul 01 21:05	10°♄14'18	1°13'52
evening rise	2272 Jul 25 02:41	11°♄16'50		max. Earth dist.	2273 Jul 03 05:17	13°♄09'52	1.32680 AU
	2272 Aug 04 04:35	0°♄		evening rise	2273 Jul 09 02:53	25°♄41'46	
desc. node	2272 Aug 14 09:24	16°♄02'16			2273 Jul 11 05:51	0°♄	
	2272 Aug 25 11:59	0°♄			2273 Jul 28 16:14	0°♄	
evening max el	2272 Aug 28 02:32	2°♄37'48	27°22'18	desc. node	2273 Aug 01 06:25	4°♄57'28	
retrograde	2272 Sep 10 15:13	9°♄55'51		evening max el	2273 Aug 10 11:27	15°♄29'21	27°21'45
evening set	2272 Sep 17 17:50	7°♄14'07		retrograde	2273 Aug 24 06:20	22°♄45'49	
min. Earth dist.	2272 Sep 21 11:03	3°♄51'02	0.64225 AU	evening set	2273 Aug 31 11:10	20°♄16'49	
inferior conj	2272 Sep 23 20:52	1°♄18'20	-2°59'09	min. Earth dist.	2273 Sep 04 01:16	17°♄22'37	0.62476 AU
minimum elong	2272 Sep 24 01:34	1°♄05'53	2°57'32	inferior conj	2273 Sep 06 23:07	14°♄37'54	-3°52'52
	2272 Sep 25 02:55	30°♄		minimum elong	2273 Sep 07 04:33	14°♄25'02	3°51'26
morning rise	2272 Sep 30 10:23	25°♄54'06		morning rise	2273 Sep 13 23:28	9°♄32'22	
direct	2272 Oct 03 00:07	25°♄20'33		direct	2273 Sep 16 09:52	9°♄05'48	
asc. node	2272 Oct 03 05:45	25°♄20'50		asc. node	2273 Sep 20 02:48	10°♄09'10	
morning max el	2272 Oct 09 12:26	28°♄46'35	17°56'12	morning max el	2273 Sep 23 04:18	12°♄32'47	17°52'05
	2272 Oct 10 16:03	0°♄			2273 Oct 04 23:20	0°♄	
morning set	2272 Oct 26 15:20	24°♄53'00		morning set	2273 Oct 09 06:06	7°♄37'00	
	2272 Oct 29 15:38	0°♄					
superior conj	2272 Nov 08 16:57	16°♄39'44	0°11'13	superior conj	2273 Oct 20 10:38	27°♄13'17	0°51'42
minimum elong	2272 Nov 08 18:14	16°♄44'55	0°11'02	minimum elong	2273 Oct 20 14:56	27°♄31'28	0°51'07
behind sun begin	2272 Nov 08 10:44	16°♄14'29			2273 Oct 22 02:08	0°♄	
behind sun end	2272 Nov 09 01:44	17°♄15'18		max. Earth dist.	2273 Oct 27 11:55	8°♄55'31	1.43290 AU
desc. node	2272 Nov 10 08:40	19°♄20'05		desc. node	2273 Oct 28 05:43	10°♄07'35	
max. Earth dist.	2272 Nov 13 21:05	24°♄57'24	1.44539 AU	evening rise	2273 Nov 04 06:01	21°♄14'36	
	2272 Nov 17 01:45	0°♄			2273 Nov 09 22:52	0°♄	
evening rise	2272 Nov 24 20:30	12°♄05'31			2273 Dec 01 04:54	0°♄	
	2272 Dec 06 15:41	0°♄		evening max el	2273 Dec 05 01:58	4°♄21'51	21°28'50
evening max el	2272 Dec 22 04:02	20°♄51'09	20°19'04	retrograde	2273 Dec 13 22:57	9°♄38'29	
retrograde	2272 Dec 30 01:31	25°♄29'45		asc. node	2273 Dec 17 02:03	8°♄44'30	
asc. node	2272 Dec 30 05:00	25°♄29'38		evening set	2273 Dec 18 04:04	7°♄59'43	
evening set	2273 Jan 02 20:25	24°♄06'27		inferior conj	2273 Dec 23 12:32	1°♄43'55	2°03'44
inferior conj	2273 Jan 08 06:10	18°♄00'23	2°43'08	minimum elong	2273 Dec 23 10:10	1°♄52'06	2°02'55
minimum elong	2273 Jan 08 03:33	18°♄09'13	2°42'24	min. Earth dist.	2273 Dec 23 18:06	1°♄24'38	0.67702 AU
min. Earth dist.	2273 Jan 08 23:42	17°♄01'00	0.67191 AU		2273 Dec 24 18:47	30°♄	
morning rise	2273 Jan 13 10:31	11°♄46'59		morning rise	2273 Dec 28 16:05	25°♄31'18	
direct	2273 Jan 19 03:32	9°♄14'44		direct	2274 Jan 02 18:11	23°♄19'30	
morning max el	2273 Jan 30 15:26	16°♄06'18	24°42'57	morning max el	2274 Jan 13 00:30	29°♄25'38	23°14'33
desc. node	2273 Feb 06 07:52	23°♄43'21			2274 Jan 13 13:56	0°♄	
	2273 Feb 11 03:19	0°♄		desc. node	2274 Jan 24 04:54	13°♄00'30	
	2273 Mar 02 19:47	0°♄			2274 Feb 04 22:56	0°♄	
				morning set	2274 Feb 16 21:57	19°♄06'26	

max. Earth dist.	2274 Feb 21 03:30	26° \approx 19'36	1.39410 AU	max. Earth dist.	2275 Feb 03 02:09	8° \approx 28'46	1.41522 AU
	2274 Feb 23 05:48	0° \mathbb{H}					
superior conj	2274 Feb 28 18:47	10° \mathbb{H} 01'59	-1°52'08	superior conj	2275 Feb 10 18:27	21° \approx 36'02	-2°04'10
minimum elong	2274 Feb 28 22:49	10° \mathbb{H} 20'40	1°51'49	minimum elong	2275 Feb 10 20:07	21° \approx 43'22	2°04'07
evening rise	2274 Mar 10 05:42	28° \mathbb{H} 01'41		evening rise	2275 Feb 15 11:33	0° \mathbb{H}	
	2274 Mar 11 06:19	0° \mathbb{Y}		asc. node	2275 Feb 21 11:21	10° \mathbb{H} 58'37	
asc. node	2274 Mar 15 01:23	7° \mathbb{Y} 09'50		asc. node	2275 Mar 01 22:24	26° \mathbb{H} 08'07	
evening max el	2274 Mar 26 11:36	24° \mathbb{Y} 10'54	18°35'58	evening max el	2275 Mar 04 08:20	0° \mathbb{Y}	
retrograde	2274 Mar 26 11:36	24° \mathbb{Y} 10'54	18°35'58	evening max el	2275 Mar 09 20:11	7° \mathbb{Y} 00'29	18°12'12
retrograde	2274 Apr 03 06:37	27° \mathbb{Y} 59'52		retrograde	2275 Mar 16 18:02	10° \mathbb{Y} 28'54	
evening set	2274 Apr 05 14:11	27° \mathbb{Y} 40'49		evening set	2275 Mar 19 07:40	10° \mathbb{Y} 00'53	
inferior conj	2274 Apr 13 05:03	23° \mathbb{Y} 14'30	2°21'36	inferior conj	2275 Mar 26 05:15	5° \mathbb{Y} 13'32	3°14'37
minimum elong	2274 Apr 13 09:01	23° \mathbb{Y} 06'50	2°20'32	minimum elong	2275 Mar 26 08:15	5° \mathbb{Y} 06'48	3°14'06
min. Earth dist.	2274 Apr 16 14:36	20° \mathbb{Y} 38'31	0.57919 AU	min. Earth dist.	2275 Mar 29 13:54	2° \mathbb{Y} 13'50	0.60037 AU
morning rise	2274 Apr 21 00:46	17° \mathbb{Y} 54'13			2275 Apr 01 11:34	30° \mathbb{R} \mathbb{H}	
desc. node	2274 Apr 22 04:06	17° \mathbb{Y} 24'32		morning rise	2275 Apr 02 06:36	29° \mathbb{H} 29'35	
direct	2274 Apr 26 19:36	16° \mathbb{Y} 29'46		direct	2275 Apr 08 19:57	27° \mathbb{H} 28'39	
morning max el	2274 May 11 04:40	24° \mathbb{Y} 07'03	26°35'16	desc. node	2275 Apr 09 01:07	27° \mathbb{H} 28'46	
	2274 May 16 13:00	0° \mathbb{B}			2275 Apr 16 14:00	0° \mathbb{Y}	
	2274 Jun 04 09:59	0° \mathbb{II}		morning max el	2275 Apr 23 03:08	5° \mathbb{Y} 18'35	27°30'49
morning set	2274 Jun 09 10:47	10° \mathbb{II} 11'55			2275 May 11 11:39	0° \mathbb{B}	
asc. node	2274 Jun 11 00:39	13° \mathbb{II} 32'52		morning set	2275 May 24 18:23	24° \mathbb{B} 51'47	
					2275 May 27 04:53	0° \mathbb{II}	
superior conj	2274 Jun 16 11:05	25° \mathbb{II} 24'30	0°54'37	asc. node	2275 May 28 21:41	3° \mathbb{II} 39'38	
minimum elong	2274 Jun 16 09:00	25° \mathbb{II} 12'59	0°54'13	max. Earth dist.	2275 May 31 04:20	8° \mathbb{II} 37'51	1.32182 AU
max. Earth dist.	2274 Jun 16 16:20	25° \mathbb{II} 53'20	1.32234 AU				
	2274 Jun 18 13:14	0° \mathbb{E}		superior conj	2275 May 31 22:38	10° \mathbb{II} 18'20	0°31'38
evening rise	2274 Jun 23 09:06	10° \mathbb{E} 22'54		minimum elong	2275 May 31 21:16	10° \mathbb{II} 10'48	0°31'21
	2274 Jul 03 12:26	0° \mathbb{O}		evening rise	2275 Jun 07 19:04	25° \mathbb{II} 12'45	
desc. node	2274 Jul 19 03:25	22° \mathbb{O} 55'31			2275 Jun 10 02:07	0° \mathbb{E}	
evening max el	2274 Jul 23 15:10	27° \mathbb{O} 40'01	26°48'14		2275 Jun 27 15:13	0° \mathbb{O}	
	2274 Jul 26 06:53	0° \mathbb{P}		evening max el	2275 Jul 05 11:52	9° \mathbb{O} 03'34	25°43'07
retrograde	2274 Aug 06 13:57	4° \mathbb{P} 53'10		desc. node	2275 Jul 06 00:26	9° \mathbb{O} 33'04	
evening set	2274 Aug 13 10:56	2° \mathbb{P} 50'39		retrograde	2275 Jul 19 12:03	16° \mathbb{O} 12'09	
min. Earth dist.	2274 Aug 17 05:11	0° \mathbb{P} 12'44	0.60477 AU	evening set	2275 Jul 25 12:29	14° \mathbb{O} 46'29	
	2274 Aug 17 11:33	30° \mathbb{R} \mathbb{O}		min. Earth dist.	2275 Jul 30 00:09	12° \mathbb{O} 07'36	0.58419 AU
inferior conj	2274 Aug 20 11:12	27° \mathbb{O} 31'16	-4°36'07	inferior conj	2275 Aug 02 05:35	9° \mathbb{O} 48'42	-4°59'05
minimum elong	2274 Aug 20 15:48	27° \mathbb{O} 21'44	4°35'24	minimum elong	2275 Aug 02 06:50	9° \mathbb{O} 46'28	4°59'03
morning rise	2274 Aug 27 22:34	22° \mathbb{O} 47'07		morning rise	2275 Aug 10 03:28	5° \mathbb{O} 27'17	
direct	2274 Aug 30 08:26	22° \mathbb{O} 24'50		direct	2275 Aug 12 15:37	5° \mathbb{O} 07'11	
morning max el	2274 Sep 06 16:48	26° \mathbb{O} 01'32	18°07'04	morning max el	2275 Aug 20 22:43	9° \mathbb{O} 03'43	18°42'28
asc. node	2274 Sep 06 23:50	26° \mathbb{O} 18'50		asc. node	2275 Aug 24 20:53	13° \mathbb{O} 34'50	
	2274 Sep 10 03:06	0° \mathbb{P}			2275 Sep 03 14:58	0° \mathbb{P}	
morning set	2274 Sep 22 12:58	21° \mathbb{P} 07'02		morning set	2275 Sep 06 07:11	5° \mathbb{P} 09'55	
	2274 Sep 27 07:11	0° \mathbb{U}					
superior conj	2274 Oct 02 06:23	9° \mathbb{U} 03'07	1°20'31	superior conj	2275 Sep 14 23:14	21° \mathbb{P} 55'11	1°37'45
minimum elong	2274 Oct 02 10:32	9° \mathbb{U} 21'41	1°20'05	minimum elong	2275 Sep 15 01:45	22° \mathbb{P} 07'07	1°37'35
max. Earth dist.	2274 Oct 09 21:33	22° \mathbb{U} 17'55	1.41544 AU		2275 Sep 19 08:03	0° \mathbb{U}	
	2274 Oct 14 13:32	0° \mathbb{M}		max. Earth dist.	2275 Sep 22 02:50	4° \mathbb{U} 58'26	1.39525 AU
evening rise	2274 Oct 15 05:28	1° \mathbb{M} 04'21		evening rise	2275 Sep 26 03:51	11° \mathbb{U} 57'35	
desc. node	2274 Oct 15 02:44	0° \mathbb{M} 53'21		desc. node	2275 Oct 01 23:45	21° \mathbb{U} 33'29	
	2274 Nov 03 10:32	0° \mathbb{X}			2275 Oct 07 09:31	0° \mathbb{M}	
evening max el	2274 Nov 17 18:50	17° \mathbb{X} 54'55	22°46'35		2275 Oct 29 20:43	0° \mathbb{X}	
retrograde	2274 Nov 27 18:09	23° \mathbb{X} 50'08		evening max el	2275 Oct 31 08:19	1° \mathbb{X} 31'24	24°06'32
evening set	2274 Dec 02 11:21	21° \mathbb{X} 54'46		retrograde	2275 Nov 11 09:48	8° \mathbb{X} 00'58	
asc. node	2274 Dec 03 23:04	20° \mathbb{X} 29'41		evening set	2275 Nov 16 16:38	5° \mathbb{X} 48'43	
inferior conj	2274 Dec 07 20:04	15° \mathbb{X} 32'57	1°17'46	asc. node	2275 Nov 20 20:06	1° \mathbb{X} 08'35	
minimum elong	2274 Dec 07 18:23	15° \mathbb{X} 38'48	1°17'05	min. Earth dist.	2275 Nov 21 10:58	0° \mathbb{X} 18'51	0.67676 AU
min. Earth dist.	2274 Dec 07 14:40	15° \mathbb{X} 51'37	0.67858 AU		2275 Nov 21 16:33	30° \mathbb{R} \mathbb{M}	
morning rise	2274 Dec 13 01:16	9° \mathbb{X} 23'12		inferior conj	2275 Nov 22 02:57	29° \mathbb{M} 24'50	0°26'26
direct	2274 Dec 17 12:40	7° \mathbb{X} 34'07		minimum elong	2275 Nov 22 02:19	29° \mathbb{M} 26'58	0°26'09
morning max el	2274 Dec 26 13:20	12° \mathbb{X} 51'54	21°48'16	morning rise	2275 Nov 27 12:00	23° \mathbb{M} 20'11	
	2275 Jan 09 02:47	0° \mathbb{Z}		direct	2275 Dec 01 09:48	21° \mathbb{M} 53'18	
desc. node	2275 Jan 11 01:56	2° \mathbb{Z} 48'21		morning max el	2275 Dec 09 09:09	26° \mathbb{M} 28'34	20°31'01
morning set	2275 Jan 27 21:38	28° \mathbb{Z} 23'27			2275 Dec 12 13:28	0° \mathbb{X}	
	2275 Jan 28 21:43	0° \mathbb{A}		desc. node	2275 Dec 28 22:57	22° \mathbb{X} 57'57	
					2276 Jan 02 14:23	0° \mathbb{Z}	

morning set	2276 Jan 06 21:54	6°♄38'24		morning set	2276 Dec 15 20:29	14°♄58'15	
max. Earth dist.	2276 Jan 16 08:46	21°♄34'45	1.43324 AU		2276 Dec 25 11:57	0°♄	
	2276 Jan 21 12:31	0°♄		max. Earth dist.	2276 Dec 28 22:30	5°♄25'15	1.44578 AU
superior conj	2276 Jan 22 17:36	2°♄00'45	-2°02'22	superior conj	2277 Jan 01 14:42	11°♄15'50	-1°42'17
minimum elong	2276 Jan 22 14:21	1°♄47'13	2°02'15	minimum elong	2277 Jan 01 06:30	10°♄43'03	1°41'36
evening rise	2276 Feb 04 00:58	23°♄08'36			2277 Jan 13 02:45	0°♄	
	2276 Feb 07 22:42	0°♄		evening rise	2277 Jan 15 18:24	4°♄24'57	
asc. node	2276 Feb 16 19:25	14°♄32'30			2277 Jan 31 20:57	0°♄	
evening max el	2276 Feb 21 08:09	20°♄08'49	18°07'59	asc. node	2277 Feb 02 16:27	2°♄13'07	
retrograde	2276 Feb 27 20:09	23°♄32'20		evening max el	2277 Feb 03 20:37	3°♄29'00	18°22'39
evening set	2276 Mar 01 15:08	22°♄54'01		retrograde	2277 Feb 10 08:23	7°♄00'38	
inferior conj	2276 Mar 07 23:14	17°♄45'55	3°38'53	evening set	2277 Feb 13 08:38	6°♄11'15	
minimum elong	2276 Mar 08 00:18	17°♄43'11	3°38'49	inferior conj	2277 Feb 19 06:55	0°♄44'04	3°41'22
min. Earth dist.	2276 Mar 10 21:06	14°♄47'24	0.62161 AU	minimum elong	2277 Feb 19 06:13	0°♄46'08	3°41'21
morning rise	2276 Mar 14 08:09	11°♄47'18			2277 Feb 19 22:13	30°♄	
direct	2276 Mar 21 05:58	9°♄16'24		min. Earth dist.	2277 Feb 21 13:55	28°♄06'48	0.64053 AU
desc. node	2276 Mar 25 22:08	10°♄17'48		morning rise	2277 Feb 25 03:06	24°♄37'06	
morning max el	2276 Apr 04 07:45	17°♄11'51	27°50'01	direct	2277 Mar 04 00:11	21°♄48'55	
	2276 Apr 14 23:01	0°♄		desc. node	2277 Mar 12 19:11	25°♄24'36	
	2276 May 03 04:27	0°♄		morning max el	2277 Mar 17 16:31	29°♄42'50	27°32'29
morning set	2276 May 07 21:01	9°♄14'11			2277 Mar 17 23:20	0°♄	
max. Earth dist.	2276 May 13 13:30	21°♄10'42	1.32521 AU		2277 Apr 08 21:32	0°♄	
asc. node	2276 May 14 18:44	23°♄48'47		morning set	2277 Apr 21 16:11	23°♄10'57	
					2277 Apr 25 01:22	0°♄	
superior conj	2276 May 15 08:24	25°♄03'01	0°06'01	max. Earth dist.	2277 Apr 26 15:42	3°♄18'25	1.33278 AU
minimum elong	2276 May 15 08:07	25°♄01'28	0°05'58				
behind sun begin	2276 May 15 03:18	24°♄35'20		superior conj	2277 Apr 29 14:34	9°♄32'30	-0°21'26
behind sun end	2276 May 15 12:55	25°♄27'37		minimum elong	2277 Apr 29 15:38	9°♄38'12	0°21'12
	2276 May 17 14:52	0°♄		asc. node	2277 May 01 15:47	13°♄56'05	
evening rise	2276 May 22 06:45	10°♄04'28		evening rise	2277 May 06 18:19	24°♄51'20	
	2276 Jun 01 12:45	0°♄			2277 May 09 05:45	0°♄	
evening max el	2276 Jun 16 02:33	19°♄46'58	24°15'09		2277 May 28 10:52	0°♄	
desc. node	2276 Jun 21 21:25	24°♄19'07		evening max el	2277 May 28 16:55	0°♄14'46	22°38'50
retrograde	2276 Jun 29 22:41	26°♄45'41		desc. node	2277 Jun 08 18:26	6°♄37'31	
evening set	2276 Jul 04 14:36	25°♄57'19		retrograde	2277 Jun 10 21:13	6°♄47'45	
min. Earth dist.	2276 Jul 10 13:21	23°♄00'19	0.56582 AU	evening set	2277 Jun 14 01:50	6°♄25'19	
inferior conj	2276 Jul 13 03:53	21°♄22'28	-4°47'58	min. Earth dist.	2277 Jun 22 00:48	2°♄56'36	0.55309 AU
minimum elong	2276 Jul 12 23:43	21°♄29'01	4°47'30	inferior conj	2277 Jun 23 07:38	2°♄12'35	-3°50'07
morning rise	2276 Jul 21 11:31	17°♄21'16		minimum elong	2277 Jun 22 23:44	2°♄23'54	3°48'10
direct	2276 Jul 24 03:53	17°♄02'08			2277 Jun 27 10:05	30°♄	
morning max el	2276 Aug 02 19:11	21°♄30'46	19°39'17	morning rise	2277 Jul 01 23:53	28°♄20'59	
	2276 Aug 09 15:36	0°♄		direct	2277 Jul 04 21:56	28°♄01'22	
asc. node	2276 Aug 10 17:56	1°♄43'05			2277 Jul 11 20:26	0°♄	
morning set	2276 Aug 20 09:17	19°♄36'25		morning max el	2277 Jul 16 04:23	3°♄15'10	20°56'53
	2276 Aug 25 12:42	0°♄		asc. node	2277 Jul 28 15:00	20°♄30'46	
					2277 Aug 02 13:51	0°♄	
superior conj	2276 Aug 28 07:47	5°♄34'41	1°45'02	morning set	2277 Aug 04 16:33	4°♄18'18	
minimum elong	2276 Aug 28 08:27	5°♄37'58	1°45'01				
max. Earth dist.	2276 Sep 03 07:13	17°♄03'56	1.37486 AU	superior conj	2277 Aug 12 03:24	19°♄47'19	1°44'09
evening rise	2276 Sep 07 01:42	23°♄56'40		minimum elong	2277 Aug 12 02:32	19°♄42'52	1°44'07
	2276 Sep 10 12:45	0°♄		max. Earth dist.	2277 Aug 16 15:50	28°♄53'55	1.35659 AU
desc. node	2276 Sep 17 20:47	12°♄03'56			2277 Aug 17 05:18	0°♄	
	2276 Sep 30 02:21	0°♄		evening rise	2277 Aug 20 19:10	6°♄51'38	
evening max el	2276 Oct 12 20:25	15°♄11'12	25°21'51		2277 Sep 03 06:07	0°♄	
retrograde	2276 Oct 24 21:13	22°♄07'11		desc. node	2277 Sep 04 17:49	2°♄18'35	
evening set	2276 Oct 30 18:19	19°♄39'27		evening max el	2277 Sep 25 08:25	28°♄49'43	26°25'10
min. Earth dist.	2276 Nov 04 04:40	14°♄44'25	0.67157 AU		2277 Sep 26 14:23	0°♄	
inferior conj	2276 Nov 05 07:29	13°♄17'38	-0°28'58	retrograde	2277 Oct 08 03:43	6°♄02'00	
minimum elong	2276 Nov 05 08:13	13°♄15'15	0°28'39	evening set	2277 Oct 14 14:26	3°♄22'49	
asc. node	2276 Nov 06 17:07	11°♄30'36			2277 Oct 17 22:26	30°♄	
morning rise	2276 Nov 10 22:21	7°♄20'35		min. Earth dist.	2277 Oct 18 17:28	29°♄03'49	0.66291 AU
direct	2276 Nov 14 08:15	6°♄13'24		inferior conj	2277 Oct 20 07:44	27°♄07'29	-1°27'05
morning max el	2276 Nov 21 12:57	10°♄16'38	19°27'05	minimum elong	2277 Oct 20 10:04	27°♄00'25	1°26'07
greatest brilliancy	2276 Dec 04 23:55	28°♄19'24	-0.7m	asc. node	2277 Oct 24 14:11	22°♄31'20	
	2276 Dec 06 02:34	0°♄		morning rise	2277 Oct 26 06:14	21°♄20'39	
desc. node	2276 Dec 14 20:01	13°♄23'35		direct	2277 Oct 29 06:19	20°♄29'36	

morning max el	2277 Nov 04 23:25	24° Ω 11'28	18°38'36		2278 Nov 03 11:51	0° \mathbb{M}	
	2277 Nov 09 18:59	0° \mathbb{M}		morning set	2278 Nov 06 17:16	5° \mathbb{M} 20'54	
morning set	2277 Nov 25 16:15	24° \mathbb{M} 26'01		desc. node	2278 Nov 18 14:07	24° \mathbb{M} 43'07	
	2277 Nov 29 04:25	0° \mathbb{A}					
desc. node	2277 Dec 01 17:05	3° \mathbb{A} 59'58		superior conj	2278 Nov 20 23:26	28° \mathbb{M} 31'48	-0°16'03
				minimum elong	2278 Nov 20 21:25	28° \mathbb{M} 23'45	0°15'47
superior conj	2277 Dec 11 18:06	19° \mathbb{A} 47'49	-1°04'05	behind sun begin	2278 Nov 20 18:55	28° \mathbb{M} 13'47	
minimum elong	2277 Dec 11 10:19	19° \mathbb{A} 17'15	1°03'08	behind sun end	2278 Nov 20 23:55	28° \mathbb{M} 33'42	
max. Earth dist.	2277 Dec 11 16:10	19° \mathbb{A} 40'16	1.45138 AU		2278 Nov 21 21:39	0° \mathbb{A}	
	2277 Dec 18 05:49	0° \mathbb{B}		max. Earth dist.	2278 Nov 24 11:03	4° \mathbb{A} 02'40	1.44962 AU
evening rise	2277 Dec 27 12:36	14° \mathbb{B} 43'39		evening rise	2278 Dec 07 09:07	24° \mathbb{A} 11'37	
greatest brilliancy	2278 Jan 04 16:26	27° \mathbb{B} 44'46	-0.8m		2278 Dec 11 03:14	0° \mathbb{B}	
	2278 Jan 06 02:42	0° \approx		greatest brilliancy	2278 Dec 20 13:14	14° \mathbb{B} 22'43	-0.7m
evening max el	2278 Jan 18 07:08	16° \approx 55'51	18°55'19		2279 Jan 01 03:58	0° \approx	
asc. node	2278 Jan 20 13:28	18° \approx 57'34		evening max el	2279 Jan 01 13:42	0° \approx 25'28	19°44'26
retrograde	2278 Jan 25 02:42	20° \approx 46'35		asc. node	2279 Jan 07 10:30	4° \approx 30'52	
evening set	2278 Jan 28 09:01	19° \approx 45'09		retrograde	2279 Jan 08 23:57	4° \approx 44'16	
inferior conj	2278 Feb 03 00:35	14° \approx 01'03	3°27'50	evening set	2279 Jan 12 13:47	3° \approx 29'26	
minimum elong	2278 Feb 02 22:39	14° \approx 07'03	3°27'33		2279 Jan 16 02:38	30° \mathbb{R} \mathbb{B}	
min. Earth dist.	2278 Feb 04 16:10	11° \approx 57'43	0.65588 AU	inferior conj	2279 Jan 18 01:04	27° \mathbb{B} 30'49	3°02'15
morning rise	2278 Feb 08 11:56	7° \approx 49'46		minimum elong	2279 Jan 17 22:33	27° \mathbb{B} 39'09	3°01'39
direct	2278 Feb 15 01:23	4° \approx 58'29		min. Earth dist.	2279 Jan 19 02:17	26° \mathbb{B} 07'28	0.66722 AU
desc. node	2278 Feb 27 16:15	12° \approx 14'07		morning rise	2279 Jan 23 07:05	21° \mathbb{B} 17'43	
morning max el	2278 Feb 28 02:27	12° \approx 39'35	26°43'21	direct	2279 Jan 29 08:26	18° \mathbb{B} 35'44	
	2278 Mar 14 01:27	0° \mathbb{H}		morning max el	2279 Feb 10 11:26	25° \mathbb{B} 49'12	25°31'03
	2278 Apr 01 12:21	0° \mathbb{Y}			2279 Feb 14 07:38	0° \approx	
morning set	2278 Apr 05 00:33	6° \mathbb{Y} 32'02		desc. node	2279 Feb 14 13:18	0° \approx 16'30	
max. Earth dist.	2278 Apr 09 07:18	14° \mathbb{Y} 52'43	1.34487 AU		2279 Mar 07 14:30	0° \mathbb{H}	
				morning set	2279 Mar 18 17:29	19° \mathbb{H} 03'00	
superior conj	2278 Apr 13 14:59	23° \mathbb{Y} 40'28	-0°49'33	max. Earth dist.	2279 Mar 22 11:05	25° \mathbb{H} 58'23	1.36153 AU
minimum elong	2278 Apr 13 17:30	23° \mathbb{Y} 53'33	0°49'04		2279 Mar 24 13:38	0° \mathbb{Y}	
	2278 Apr 16 15:39	0° \mathbb{B}					
asc. node	2278 Apr 18 12:50	3° \mathbb{B} 57'32		superior conj	2279 Mar 28 06:52	7° \mathbb{Y} 18'17	-1°16'48
evening rise	2278 Apr 21 03:52	9° \mathbb{B} 27'16		minimum elong	2279 Mar 28 10:39	7° \mathbb{Y} 37'14	1°16'13
	2278 May 02 02:13	0° \mathbb{I}		evening rise	2279 Apr 05 09:12	23° \mathbb{Y} 44'51	
evening max el	2278 May 10 14:45	10° \mathbb{I} 59'55	21°08'46	asc. node	2279 Apr 05 09:51	23° \mathbb{Y} 48'05	
retrograde	2278 May 22 11:00	16° \mathbb{I} 46'49			2279 Apr 08 12:14	0° \mathbb{B}	
evening set	2278 May 24 16:46	16° \mathbb{I} 35'09		evening max el	2279 Apr 23 00:07	22° \mathbb{B} 20'59	19°54'02
desc. node	2278 May 26 15:27	16° \mathbb{I} 07'16		retrograde	2279 May 03 02:41	27° \mathbb{B} 14'10	
inferior conj	2278 Jun 03 01:42	12° \mathbb{I} 36'37	-2°08'10	evening set	2279 May 05 02:58	27° \mathbb{B} 03'24	
minimum elong	2278 Jun 02 19:47	12° \mathbb{I} 44'58	2°06'08	desc. node	2279 May 13 12:29	23° \mathbb{B} 20'37	
min. Earth dist.	2278 Jun 03 13:05	12° \mathbb{I} 20'34	0.54895 AU	inferior conj	2279 May 14 00:07	23° \mathbb{B} 02'55	-0°08'28
morning rise	2278 Jun 11 22:56	8° \mathbb{I} 36'00		minimum elong	2279 May 13 23:44	23° \mathbb{B} 03'30	0°08'19
direct	2278 Jun 15 07:41	8° \mathbb{I} 11'30		transit middle	2279 May 13 23:44	23° \mathbb{B} 03'30	0°08'19
morning max el	2278 Jun 28 02:53	14° \mathbb{I} 17'21	22°31'16	transit begin	2279 May 13 20:21	23° \mathbb{B} 08'40	
	2278 Jul 10 02:19	0° \mathbb{E}		transit end	2279 May 14 03:07	22° \mathbb{B} 58'19	
asc. node	2278 Jul 15 12:06	9° \mathbb{E} 48'18		min. Earth dist.	2279 May 16 02:37	21° \mathbb{B} 46'04	0.55450 AU
morning set	2278 Jul 20 02:57	19° \mathbb{E} 09'57		morning rise	2279 May 22 18:20	18° \mathbb{B} 35'37	
	2278 Jul 25 05:16	0° \mathbb{Q}		direct	2279 May 26 22:33	17° \mathbb{B} 57'12	
				morning max el	2279 Jun 09 18:19	24° \mathbb{B} 48'57	24°13'29
superior conj	2278 Jul 27 06:36	4° \mathbb{Q} 22'44	1°36'39		2279 Jun 14 13:18	0° \mathbb{I}	
minimum elong	2278 Jul 27 04:43	4° \mathbb{Q} 12'46	1°36'29	asc. node	2279 Jul 02 09:09	29° \mathbb{I} 27'12	
max. Earth dist.	2278 Jul 30 09:08	10° \mathbb{Q} 53'30	1.34191 AU		2279 Jul 02 15:33	0° \mathbb{E}	
evening rise	2278 Aug 04 03:41	20° \mathbb{Q} 30'42		morning set	2279 Jul 04 14:43	4° \mathbb{E} 05'39	
	2278 Aug 09 04:07	0° \mathbb{N}					
desc. node	2278 Aug 22 14:49	22° \mathbb{N} 10'20		superior conj	2279 Jul 11 14:42	19° \mathbb{E} 12'04	1°23'44
	2278 Aug 28 04:41	0° \mathbb{Q}		minimum elong	2279 Jul 11 12:21	18° \mathbb{E} 59'19	1°23'26
evening max el	2278 Sep 07 20:39	12° \mathbb{Q} 19'50	27°08'54	max. Earth dist.	2279 Jul 13 11:36	23° \mathbb{E} 14'17	1.33122 AU
retrograde	2278 Sep 21 04:44	19° \mathbb{Q} 38'04			2279 Jul 16 16:16	0° \mathbb{Q}	
evening set	2278 Sep 28 02:37	16° \mathbb{Q} 54'39		evening rise	2279 Jul 18 23:07	4° \mathbb{Q} 41'45	
min. Earth dist.	2278 Oct 01 23:03	13° \mathbb{Q} 11'38	0.65075 AU		2279 Aug 01 20:22	0° \mathbb{N}	
inferior conj	2278 Oct 04 01:33	10° \mathbb{Q} 50'19	-2°25'59	desc. node	2279 Aug 09 11:49	11° \mathbb{N} 29'41	
minimum elong	2278 Oct 04 05:29	10° \mathbb{Q} 39'20	2°24'30	evening max el	2279 Aug 21 07:41	25° \mathbb{N} 29'55	27°26'06
morning rise	2278 Oct 10 09:13	5° \mathbb{Q} 16'42			2279 Aug 26 21:55	0° \mathbb{Q}	
asc. node	2278 Oct 11 11:15	4° \mathbb{Q} 51'49		retrograde	2279 Sep 03 23:29	2° \mathbb{Q} 47'11	
direct	2278 Oct 13 01:56	4° \mathbb{Q} 37'51		evening set	2279 Sep 11 03:53	0° \mathbb{Q} 09'38	
morning max el	2278 Oct 19 14:09	8° \mathbb{Q} 07'33	18°06'39		2279 Sep 11 09:07	30° \mathbb{R} \mathbb{N}	

min. Earth dist.	2279 Sep 14 19:23	26° \mathbb{M} 59'37	0.63514 AU	min. Earth dist.	2280 Aug 27 05:02	10° \mathbb{M} 15'16	0.61649 AU
inferior conj	2279 Sep 17 10:23	24° \mathbb{M} 20'37	-3°22'48	inferior conj	2280 Aug 30 07:02	7° \mathbb{M} 30'04	-4°13'00
minimum elong	2279 Sep 17 15:31	24° \mathbb{M} 07'36	3°21'12	minimum elong	2280 Aug 30 12:21	7° \mathbb{M} 18'07	4°11'49
morning rise	2279 Sep 24 04:23	19° \mathbb{M} 03'36		morning rise	2280 Sep 06 12:03	2° \mathbb{M} 33'15	
direct	2279 Sep 26 16:22	18° \mathbb{M} 33'21		direct	2280 Sep 08 22:02	2° \mathbb{M} 08'39	
asc. node	2279 Sep 28 08:20	18° \mathbb{M} 47'04		asc. node	2280 Sep 14 05:23	4° \mathbb{M} 11'35	
morning max el	2279 Oct 03 06:24	21° \mathbb{M} 58'59	17°52'10	morning max el	2280 Sep 15 21:10	5° \mathbb{M} 38'20	17°56'05
	2279 Oct 09 10:29	0° \mathbb{L}			2280 Oct 01 10:24	0° \mathbb{L}	
morning set	2279 Oct 19 20:07	17° \mathbb{L} 30'59		morning set	2280 Oct 01 18:24	0° \mathbb{L} 36'27	
	2279 Oct 27 02:12	0° \mathbb{M}					
superior conj	2279 Nov 01 01:28	8° \mathbb{M} 18'48	0°29'42	superior conj	2280 Oct 12 06:38	19° \mathbb{L} 25'45	1°05'24
minimum elong	2279 Nov 01 04:30	8° \mathbb{M} 31'16	0°29'16	minimum elong	2280 Oct 12 11:10	19° \mathbb{L} 45'20	1°04'52
desc. node	2279 Nov 05 11:09	15° \mathbb{M} 29'57			2280 Oct 18 12:07	0° \mathbb{M}	
max. Earth dist.	2279 Nov 07 04:31	18° \mathbb{M} 16'14	1.44079 AU	max. Earth dist.	2280 Oct 19 17:47	2° \mathbb{M} 02'35	1.42595 AU
	2279 Nov 14 15:13	0° \mathbb{X}		desc. node	2280 Oct 22 08:09	6° \mathbb{M} 16'51	
evening rise	2279 Nov 16 18:01	3° \mathbb{X} 16'24		evening rise	2280 Oct 26 07:43	12° \mathbb{M} 38'13	
	2279 Dec 04 16:02	0° \mathbb{Z}			2280 Nov 06 16:48	0° \mathbb{X}	
evening max el	2279 Dec 15 15:00	13° \mathbb{Z} 56'21	20°47'33	evening max el	2280 Nov 27 10:37	27° \mathbb{X} 27'33	22°01'14
retrograde	2279 Dec 23 21:48	18° \mathbb{Z} 50'14			2280 Nov 30 04:36	0° \mathbb{Z}	
asc. node	2279 Dec 25 07:33	18° \mathbb{Z} 39'13		retrograde	2280 Dec 06 18:24	3° \mathbb{Z} 00'30	
evening set	2279 Dec 27 20:54	17° \mathbb{Z} 20'28		evening set	2280 Dec 11 04:34	1° \mathbb{Z} 14'31	
inferior conj	2280 Jan 02 05:54	11° \mathbb{Z} 10'04	2°27'21	asc. node	2280 Dec 11 04:36	1° \mathbb{Z} 14'27	
minimum elong	2280 Jan 02 03:20	11° \mathbb{Z} 18'52	2°26'33		2280 Dec 12 12:45	30° \mathbb{R} \mathbb{X}	
min. Earth dist.	2280 Jan 02 18:12	10° \mathbb{Z} 27'57	0.67456 AU	inferior conj	2280 Dec 16 12:57	24° \mathbb{X} 55'40	1°44'58
morning rise	2280 Jan 07 09:36	4° \mathbb{Z} 57'02		minimum elong	2280 Dec 16 10:49	25° \mathbb{X} 03'03	1°44'10
direct	2280 Jan 12 20:27	2° \mathbb{Z} 32'50		min. Earth dist.	2280 Dec 16 13:41	24° \mathbb{X} 53'07	0.67812 AU
morning max el	2280 Jan 23 19:47	9° \mathbb{Z} 05'21	24°05'42	morning rise	2280 Dec 21 16:56	18° \mathbb{X} 44'16	
desc. node	2280 Feb 01 10:21	19° \mathbb{Z} 10'52		direct	2280 Dec 26 12:40	16° \mathbb{X} 42'14	
	2280 Feb 09 07:09	0° \mathbb{A}		morning max el	2281 Jan 05 06:03	22° \mathbb{X} 27'08	22°37'13
	2280 Feb 28 06:40	0° \mathbb{H}			2281 Jan 11 19:14	0° \mathbb{Z}	
morning set	2280 Feb 28 13:15	0° \mathbb{H} 28'24		desc. node	2281 Jan 18 07:22	8° \mathbb{Z} 41'57	
max. Earth dist.	2280 Mar 03 07:15	7° \mathbb{H} 04'01	1.38177 AU		2281 Feb 01 15:40	0° \mathbb{A}	
				morning set	2281 Feb 08 05:49	10° \mathbb{A} 33'12	
superior conj	2280 Mar 10 10:46	20° \mathbb{H} 17'04	-1°40'55	max. Earth dist.	2281 Feb 13 03:20	18° \mathbb{A} 44'18	1.40329 AU
minimum elong	2280 Mar 10 15:07	20° \mathbb{H} 37'50	1°40'26		2281 Feb 19 13:59	0° \mathbb{H}	
	2280 Mar 15 11:00	0° \mathbb{Y}					
evening rise	2280 Mar 19 07:54	7° \mathbb{Y} 37'37		superior conj	2281 Feb 20 22:11	2° \mathbb{H} 25'07	-1°58'36
asc. node	2280 Mar 22 06:52	13° \mathbb{Y} 23'10		minimum elong	2281 Feb 21 01:32	2° \mathbb{H} 40'17	1°58'24
	2280 Apr 01 02:42	0° \mathbb{B}		evening rise	2281 Mar 02 20:50	20° \mathbb{H} 57'26	
evening max el	2280 Apr 04 20:38	4° \mathbb{B} 21'21	18°58'34		2281 Mar 07 17:01	0° \mathbb{Y}	
retrograde	2280 Apr 13 08:55	8° \mathbb{B} 29'26		asc. node	2281 Mar 09 03:53	2° \mathbb{Y} 36'59	
evening set	2280 Apr 15 13:07	8° \mathbb{B} 14'21		evening max el	2281 Mar 19 01:40	16° \mathbb{Y} 55'15	18°23'22
inferior conj	2280 Apr 23 15:09	3° \mathbb{B} 58'47	1°35'52	retrograde	2281 Mar 26 10:21	20° \mathbb{Y} 33'53	
minimum elong	2280 Apr 23 18:33	3° \mathbb{B} 52'47	1°34'47	evening set	2281 Mar 28 20:31	20° \mathbb{Y} 11'16	
min. Earth dist.	2280 Apr 26 18:14	1° \mathbb{B} 47'31	0.56851 AU	inferior conj	2281 Apr 05 03:34	15° \mathbb{Y} 35'46	2°48'03
desc. node	2280 Apr 29 09:31	0° \mathbb{B} 09'04		minimum elong	2281 Apr 05 07:21	15° \mathbb{Y} 27'57	2°47'10
	2280 Apr 29 16:04	30° \mathbb{R} \mathbb{Y}		min. Earth dist.	2281 Apr 08 14:09	12° \mathbb{Y} 46'47	0.58795 AU
morning rise	2280 May 01 20:54	28° \mathbb{Y} 56'59		morning rise	2281 Apr 12 15:25	10° \mathbb{Y} 04'00	
direct	2280 May 07 01:54	27° \mathbb{Y} 52'37		desc. node	2281 Apr 16 06:31	8° \mathbb{Y} 41'02	
	2280 May 14 12:07	0° \mathbb{B}		direct	2281 Apr 18 18:57	8° \mathbb{Y} 24'14	
morning max el	2280 May 21 08:55	5° \mathbb{B} 16'20	25°49'19	morning max el	2281 May 03 04:06	16° \mathbb{Y} 07'49	27°03'09
	2280 Jun 08 07:44	0° \mathbb{I}			2281 May 14 11:53	0° \mathbb{B}	
morning set	2280 Jun 18 02:11	19° \mathbb{I} 00'06			2281 May 31 15:40	0° \mathbb{I}	
asc. node	2280 Jun 18 06:10	19° \mathbb{I} 21'07		morning set	2281 Jun 02 11:46	3° \mathbb{I} 47'57	
	2280 Jun 23 04:21	0° \mathbb{E}		asc. node	2281 Jun 05 03:11	9° \mathbb{I} 25'00	
superior conj	2280 Jun 25 01:33	4° \mathbb{E} 08'13	1°06'21				
minimum elong	2280 Jun 24 23:14	3° \mathbb{E} 55'28	1°05'57	superior conj	2281 Jun 09 13:23	19° \mathbb{I} 05'18	0°45'14
max. Earth dist.	2280 Jun 25 20:41	5° \mathbb{E} 53'03	1.32451 AU	minimum elong	2281 Jun 09 11:33	18° \mathbb{I} 55'12	0°44'52
evening rise	2280 Jul 02 02:12	19° \mathbb{E} 14'33		max. Earth dist.	2281 Jun 09 08:48	18° \mathbb{I} 40'06	1.32166 AU
	2280 Jul 07 11:32	0° \mathbb{Q}			2281 Jun 14 13:07	0° \mathbb{E}	
desc. node	2280 Jul 26 08:50	0° \mathbb{M} 02'46		evening rise	2281 Jun 16 10:18	4° \mathbb{E} 00'53	
	2280 Jul 26 07:57	0° \mathbb{M}			2281 Jun 30 07:02	0° \mathbb{Q}	
evening max el	2280 Aug 02 14:48	8° \mathbb{M} 05'32	27°11'35	desc. node	2281 Jul 13 05:50	17° \mathbb{Q} 30'31	
retrograde	2280 Aug 16 11:12	15° \mathbb{M} 19'46		evening max el	2281 Jul 15 15:31	19° \mathbb{Q} 56'25	26°23'55
evening set	2280 Aug 23 14:16	13° \mathbb{M} 00'35		retrograde	2281 Jul 29 15:02	27° \mathbb{Q} 08'08	
				evening set	2281 Aug 05 05:09	25° \mathbb{Q} 20'01	
				min. Earth dist.	2281 Aug 09 04:36	22° \mathbb{Q} 44'19	0.59599 AU





































































































































inferior conj	2281 Aug 12 12:01	20°♎09'47	-4°49'05	inferior conj	2282 Jul 24 22:00	2°♎09'28	-4°59'26
minimum elong	2281 Aug 12 15:31	20°♎02'55	4°48'43	minimum elong	2282 Jul 24 21:04	2°♎11'04	4°59'25
morning rise	2281 Aug 20 03:59	15°♎35'38			2282 Jul 28 06:31	30°♎	
direct	2281 Aug 22 14:35	15°♎14'29		morning rise	2282 Aug 02 00:10	27°♎57'29	
morning max el	2281 Aug 30 07:22	18°♎57'51	18°19'36	direct	2282 Aug 04 13:42	27°♎38'07	
asc. node	2281 Sep 01 02:26	20°♎51'54			2282 Aug 11 06:01	0°♎	
	2281 Sep 07 10:03	0°♎		morning max el	2282 Aug 13 09:41	1°♎46'52	19°03'58
morning set	2281 Sep 15 06:37	14°♎22'09		asc. node	2282 Aug 18 23:28	8°♎31'56	
	2281 Sep 23 13:21	0°♎		morning set	2282 Aug 30 04:33	28°♎36'00	
					2282 Aug 30 21:32	0°♎	
superior conj	2281 Sep 24 12:10	1°♎44'51	1°29'09	superior conj	2282 Sep 07 12:21	14°♎59'07	1°41'56
minimum elong	2281 Sep 24 15:43	2°♎01'06	1°28'50	minimum elong	2282 Sep 07 14:04	15°♎07'25	1°41'51
max. Earth dist.	2281 Oct 02 01:23	15°♎07'40	1.40703 AU	max. Earth dist.	2282 Sep 14 05:06	27°♎29'13	1.38645 AU
evening rise	2281 Oct 06 16:24	22°♎53'29			2282 Sep 15 14:47	0°♎	
desc. node	2281 Oct 09 05:11	27°♎00'44		evening rise	2282 Sep 18 01:05	4°♎15'42	
	2281 Oct 11 02:04	0°♎		desc. node	2282 Sep 26 02:13	17°♎37'24	
	2281 Oct 31 16:55	0°♎			2282 Oct 04 04:35	0°♎	
evening max el	2281 Nov 10 01:38	11°♎01'06	23°20'38	evening max el	2282 Oct 23 14:12	24°♎39'01	24°39'36
retrograde	2281 Nov 20 12:20	17°♎12'14			2282 Oct 30 09:04	0°♎	
evening set	2281 Nov 25 11:12	15°♎09'25		retrograde	2282 Nov 04 02:27	1°♎21'43	
asc. node	2281 Nov 28 01:38	12°♎26'46			2282 Nov 08 08:52	30°♎	
inferior conj	2281 Nov 30 20:25	8°♎45'57	0°56'33	evening set	2282 Nov 09 15:11	29°♎02'43	
minimum elong	2281 Nov 30 19:08	8°♎50'22	0°56'01	min. Earth dist.	2282 Nov 14 06:02	23°♎47'13	0.67491 AU
min. Earth dist.	2281 Nov 30 10:25	9°♎20'16	0.67819 AU	asc. node	2282 Nov 14 22:41	22°♎51'51	
morning rise	2281 Dec 06 03:00	2°♎38'07		inferior conj	2282 Nov 15 02:33	22°♎38'57	0°03'20
direct	2281 Dec 10 08:19	0°♎58'55		minimum elong	2282 Nov 15 02:28	22°♎39'14	0°03'18
morning max el	2281 Dec 18 21:43	5°♎57'53	21°13'59	transit middle	2282 Nov 15 02:28	22°♎39'14	0°03'18
desc. node	2282 Jan 05 04:24	28°♎39'40		transit begin	2282 Nov 14 23:46	22°♎48'12	
	2282 Jan 06 02:13	0°♎		transit end	2282 Nov 15 05:10	22°♎30'16	
morning set	2282 Jan 18 17:52	19°♎18'19		morning rise	2282 Nov 20 13:50	16°♎36'59	
	2282 Jan 25 10:08	0°♎		direct	2282 Nov 24 06:15	15°♎18'56	
max. Earth dist.	2282 Jan 26 05:01	1°♎17'08	1.42335 AU	morning max el	2282 Dec 01 20:57	19°♎39'42	20°01'57
					2282 Dec 10 05:18	0°♎	
superior conj	2282 Feb 02 11:53	13°♎30'02	-2°05'23	desc. node	2282 Dec 23 01:28	18°♎56'53	
minimum elong	2282 Feb 02 11:44	13°♎29'23	2°05'23	morning set	2282 Dec 28 14:06	27°♎25'37	
	2282 Feb 11 20:30	0°♎			2282 Dec 30 06:00	0°♎	
evening rise	2282 Feb 13 20:12	3°♎35'18		max. Earth dist.	2283 Jan 08 14:18	14°♎41'56	1.43928 AU
asc. node	2282 Feb 24 00:55	21°♎22'04					
evening max el	2282 Mar 02 12:01	29°♎53'33	18°08'06	superior conj	2283 Jan 13 23:47	23°♎24'29	-1°56'14
	2282 Mar 02 14:39	0°♎		minimum elong	2283 Jan 13 18:07	23°♎01'24	1°55'56
retrograde	2282 Mar 09 04:37	3°♎18'28			2283 Jan 17 23:48	0°♎	
evening set	2282 Mar 11 20:27	2°♎46'21		evening rise	2283 Jan 27 01:43	15°♎23'12	
	2282 Mar 16 03:03	30°♎			2283 Feb 04 15:32	0°♎	
inferior conj	2282 Mar 18 11:50	27°♎50'14	3°28'00	asc. node	2283 Feb 10 21:58	9°♎29'40	
minimum elong	2282 Mar 18 14:03	27°♎44'57	3°27'44	evening max el	2283 Feb 14 00:36	13°♎08'15	18°12'05
min. Earth dist.	2282 Mar 21 16:48	24°♎47'51	0.60945 AU	retrograde	2283 Feb 20 11:27	16°♎33'36	
morning rise	2282 Mar 25 05:46	21°♎58'44		evening set	2283 Feb 23 08:37	15°♎50'44	
direct	2282 Mar 31 23:49	19°♎43'38		inferior conj	2283 Mar 01 12:09	10°♎34'39	3°42'11
desc. node	2282 Apr 03 03:34	19°♎56'38		minimum elong	2283 Mar 01 12:24	10°♎33'58	3°42'12
morning max el	2282 Apr 15 05:30	27°♎37'48	27°43'41	min. Earth dist.	2283 Mar 04 04:06	7°♎42'51	0.63000 AU
	2282 Apr 17 12:08	0°♎		morning rise	2283 Mar 07 15:10	4°♎31'58	
	2282 May 08 04:03	0°♎		direct	2283 Mar 14 13:52	1°♎51'35	
morning set	2282 May 17 17:34	18°♎21'51		desc. node	2283 Mar 21 00:36	3°♎48'38	
asc. node	2282 May 23 00:13	29°♎33'31		morning max el	2283 Mar 28 12:03	9°♎47'52	27°46'50
	2282 May 23 05:05	0°♎			2283 Apr 13 06:13	0°♎	
max. Earth dist.	2282 May 23 20:00	1°♎21'14	1.32271 AU		2283 Apr 30 10:21	0°♎	
				morning set	2283 May 01 17:22	2°♎34'35	
superior conj	2282 May 25 00:23	3°♎56'24	0°21'04	max. Earth dist.	2283 May 07 02:29	13°♎43'57	1.32786 AU
minimum elong	2282 May 24 23:27	3°♎51'12	0°20'52				
evening rise	2282 May 31 21:13	18°♎52'28		superior conj	2283 May 09 08:53	18°♎35'47	-0°05'27
	2282 Jun 06 08:09	0°♎		minimum elong	2283 May 09 09:09	18°♎37'12	0°05'24
	2282 Jun 26 08:26	0°♎		behind sun begin	2283 May 09 04:12	18°♎10'26	
evening max el	2282 Jun 27 09:07	1°♎00'49	25°07'42	behind sun end	2283 May 09 14:07	19°♎04'00	
desc. node	2282 Jun 30 02:51	3°♎25'19		asc. node	2283 May 09 21:16	19°♎42'41	
retrograde	2282 Jul 11 08:56	8°♎07'16			2283 May 14 15:18	0°♎	
evening set	2282 Jul 16 20:33	6°♎58'05		evening rise	2283 May 16 09:05	3°♎43'01	
min. Earth dist.	2282 Jul 21 20:49	4°♎13'11	0.57591 AU				

	2283 May 30 14:53	0°☿		evening rise	2284 Apr 29 20:00	18°♄25'52	
evening max el	2283 Jun 08 22:54	11°♄34'33 23°34'20			2284 May 05 13:55	0°♄	
desc. node	2283 Jun 16 23:52	17°♄13'05		evening max el	2284 May 20 15:43	22°♄06'26 21°59'07	
retrograde	2283 Jun 22 14:23	18°♄24'23		retrograde	2284 Jun 02 07:49	28°♄21'14	
evening set	2283 Jun 26 14:29	17°♄49'14		desc. node	2284 Jun 02 20:51	28°♄20'34	
min. Earth dist.	2283 Jul 03 09:11	14°♄40'06 0.55957 AU		evening set	2284 Jun 05 00:48	28°♄04'54	
inferior conj	2283 Jul 05 11:54	13°♄24'16 -4°29'32		inferior conj	2284 Jun 14 09:59	24°♄00'12 -3°11'13	
minimum elong	2283 Jul 05 05:38	13°♄33'41 4°28'28		minimum elong	2284 Jun 14 02:10	24°♄11'09 3°08'54	
morning rise	2283 Jul 13 23:21	9°♄28'30		min. Earth dist.	2284 Jun 13 20:33	24°♄19'02 0.55020 AU	
direct	2283 Jul 16 17:50	9°♄09'24		morning rise	2284 Jun 23 05:03	20°♄07'25	
morning max el	2283 Jul 27 01:26	13°♄56'21 20°09'44		direct	2284 Jun 26 07:05	19°♄46'19	
asc. node	2283 Aug 05 20:31	26°♄58'20		morning max el	2284 Jul 08 05:40	25°♄21'42 21°35'22	
	2283 Aug 07 14:07	0°♄			2284 Jul 12 12:29	0°♄	
morning set	2283 Aug 14 09:07	13°♄09'44		asc. node	2284 Jul 22 17:35	16°♄00'12	
				morning set	2284 Jul 28 18:00	27°♄57'15	
					2284 Jul 29 17:34	0°♄	
superior conj	2283 Aug 22 02:03	28°♄53'51 1°45'33		superior conj	2284 Aug 05 01:17	13°♄17'46 1°41'41	
minimum elong	2283 Aug 22 02:00	28°♄53'39 1°45'32		minimum elong	2284 Aug 04 23:55	13°♄10'39 1°41'37	
	2283 Aug 22 15:13	0°♄		max. Earth dist.	2284 Aug 08 23:03	21°♄19'06 1.34992 AU	
max. Earth dist.	2283 Aug 27 10:33	9°♄24'39 1.36680 AU		evening rise	2284 Aug 13 08:19	29°♄56'06	
evening rise	2283 Aug 31 07:52	16°♄40'15			2284 Aug 13 09:08	0°♄	
	2283 Sep 07 23:34	0°♄		desc. node	2284 Aug 29 20:14	28°♄08'25	
desc. node	2283 Sep 12 23:14	8°♄01'54			2284 Aug 31 02:00	0°♄	
	2283 Sep 28 14:36	0°♄		evening max el	2284 Sep 17 14:44	21°♄57'10 26°46'35	
evening max el	2283 Oct 06 02:21	8°♄19'46 25°50'49		retrograde	2284 Sep 30 15:48	29°♄12'07	
retrograde	2283 Oct 18 11:47	15°♄23'38		evening set	2284 Oct 07 07:48	26°♄30'12	
evening set	2283 Oct 24 14:45	12°♄50'44		min. Earth dist.	2284 Oct 11 07:59	22°♄26'42 0.65824 AU	
min. Earth dist.	2283 Oct 28 22:02	8°♄10'40 0.66830 AU		inferior conj	2284 Oct 13 03:20	20°♄19'18 -1°52'05	
inferior conj	2283 Oct 30 05:31	6°♄31'11 -0°53'25		minimum elong	2284 Oct 13 06:21	20°♄10'26 1°50'52	
minimum elong	2283 Oct 30 06:55	6°♄26'47 0°52'49		asc. node	2284 Oct 18 16:47	14°♄55'56	
asc. node	2283 Nov 01 19:44	3°♄23'57		morning rise	2284 Oct 19 05:33	14°♄37'42	
morning rise	2283 Nov 04 23:24	0°♄37'52		direct	2284 Oct 22 02:19	13°♄52'09	
	2283 Nov 06 05:48	30°♄		morning max el	2284 Oct 28 16:20	17°♄27'23 18°22'56	
direct	2283 Nov 08 04:54	29°♄37'53			2284 Nov 07 00:15	0°♄	
	2283 Nov 10 05:14	0°♄		morning set	2284 Nov 17 03:49	16°♄14'48	
morning max el	2283 Nov 15 03:43	3°♄30'47 19°04'24		desc. node	2284 Nov 25 19:34	0°♄	
	2283 Dec 03 21:01	0°♄			2284 Nov 25 17:38	0°♄	
morning set	2283 Dec 07 19:35	6°♄08'45		superior conj	2284 Dec 02 12:59	10°♄45'37 -0°44'09	
desc. node	2283 Dec 09 22:31	9°♄27'37		minimum elong	2284 Dec 02 07:19	10°♄23'21 0°43'25	
max. Earth dist.	2283 Dec 22 06:12	28°♄45'40 1.44908 AU		max. Earth dist.	2284 Dec 04 01:24	13°♄08'42 1.45162 AU	
	2283 Dec 23 01:04	0°♄			2284 Dec 14 19:24	0°♄	
				evening rise	2284 Dec 18 17:50	6°♄10'40	
superior conj	2283 Dec 24 11:33	2°♄16'05 -1°27'59		greatest brilliancy	2284 Dec 29 05:51	22°♄37'01 -0.8m	
minimum elong	2283 Dec 24 02:37	1°♄40'51 1°27'05			2285 Jan 03 03:17	0°♄	
evening rise	2284 Jan 08 09:24	26°♄14'39		evening max el	2285 Jan 10 21:37	10°♄00'23 19°14'14	
	2284 Jan 10 16:25	0°♄		asc. node	2285 Jan 14 16:04	13°♄04'21	
evening max el	2284 Jan 28 12:35	26°♄32'01 18°34'29		retrograde	2285 Jan 17 22:31	14°♄01'55	
asc. node	2284 Jan 28 19:02	26°♄48'10		evening set	2285 Jan 21 07:54	12°♄54'46	
	2284 Feb 02 18:07	0°♄		inferior conj	2285 Jan 26 21:21	7°♄03'54 3°18'14	
retrograde	2284 Feb 04 02:33	0°♄10'08		minimum elong	2285 Jan 26 19:06	7°♄11'07 3°17'49	
	2284 Feb 05 10:43	30°♄		min. Earth dist.	2285 Jan 28 06:32	5°♄17'33 0.66126 AU	
evening set	2284 Feb 07 05:22	29°♄15'36		morning rise	2285 Feb 01 06:03	0°♄51'42	
inferior conj	2284 Feb 13 00:27	23°♄41'02 3°37'16			2285 Feb 02 07:12	30°♄	
minimum elong	2284 Feb 12 23:09	23°♄44'55 3°37'10		direct	2285 Feb 07 14:41	28°♄03'26	
min. Earth dist.	2284 Feb 15 00:50	21°♄17'14 0.64759 AU			2285 Feb 13 13:23	0°♄	
morning rise	2284 Feb 18 16:27	17°♄32'09		morning max el	2285 Feb 20 07:09	5°♄33'59 26°14'51	
direct	2284 Feb 25 11:07	14°♄41'00		desc. node	2285 Feb 21 18:44	7°♄06'28	
desc. node	2284 Mar 06 21:40	19°♄42'53			2285 Mar 11 02:26	0°♄	
morning max el	2284 Mar 09 21:23	22°♄30'14 27°14'59		morning set	2285 Mar 28 10:44	29°♄17'59	
	2284 Mar 16 12:11	0°♄			2285 Mar 28 19:42	0°♄	
	2284 Apr 05 11:55	0°♄		max. Earth dist.	2285 Apr 01 11:09	6°♄58'28 1.35147 AU	
morning set	2284 Apr 14 08:21	16°♄16'54					
max. Earth dist.	2284 Apr 19 00:26	25°♄37'11 1.33737 AU		superior conj	2285 Apr 06 09:59	16°♄52'27 -1°01'21	
	2284 Apr 21 03:12	0°♄		minimum elong	2285 Apr 06 13:06	17°♄08'22 1°00'47	
				asc. node	2285 Apr 12 15:22	29°♄45'17	
superior conj	2284 Apr 22 12:53	2°♄56'45 -0°33'20					
minimum elong	2284 Apr 22 14:34	3°♄05'39 0°32'59					
asc. node	2284 Apr 25 18:20	9°♄48'00					

	2285 Apr 12 18:12	0°♄		superior conj	2286 Mar 20 21:16	0°♄15'11	-1°27'36
evening rise	2285 Apr 14 04:02	2°♄54'46		minimum elong	2286 Mar 21 01:26	0°♄35'37	1°27'01
	2285 Apr 29 22:15	0°♄			2286 Mar 20 18:10	0°♄	
evening max el	2285 May 02 18:03	3°♄04'28	20°34'41	evening rise	2286 Mar 29 06:55	17°♄03'16	
retrograde	2285 May 13 20:56	8°♄28'55		asc. node	2286 Mar 30 12:24	19°♄30'21	
evening set	2285 May 15 22:38	8°♄18'25			2286 Apr 05 00:18	0°♄	
desc. node	2285 May 20 17:53	6°♄43'25		evening max el	2286 Apr 15 08:21	14°♄42'56	19°27'59
inferior conj	2285 May 25 03:57	4°♄20'38	-1°17'24	retrograde	2286 Apr 24 17:58	19°♄15'43	
minimum elong	2285 May 25 00:17	4°♄25'55	1°16'03	evening set	2286 Apr 26 19:03	19°♄03'45	
min. Earth dist.	2285 May 26 08:58	3°♄38'48	0.55009 AU	inferior conj	2286 May 05 08:27	14°♄57'59	0°39'08
morning rise	2285 Jun 03 01:08	0°♄10'50		minimum elong	2286 May 05 10:05	14°♄55'20	0°38'33
	2285 Jun 03 19:50	30°♄♄		desc. node	2286 May 07 14:55	13°♄30'03	
direct	2285 Jun 06 16:56	29°♄42'00		min. Earth dist.	2286 May 07 23:32	13°♄16'27	0.55948 AU
	2285 Jun 09 13:05	0°♄		morning rise	2286 May 13 22:18	10°♄15'44	
morning max el	2285 Jun 20 00:29	6°♄08'15	23°14'45	direct	2286 May 18 12:33	9°♄27'54	
	2285 Jul 06 18:48	0°♄		morning max el	2286 Jun 01 15:03	16°♄35'49	24°56'04
asc. node	2285 Jul 09 14:38	5°♄27'45			2286 Jun 12 11:57	0°♄	
morning set	2285 Jul 13 05:12	12°♄51'39		asc. node	2286 Jun 26 11:40	25°♄13'58	
				morning set	2286 Jun 27 17:01	27°♄47'45	
superior conj	2285 Jul 20 06:51	28°♄00'19	1°31'46		2286 Jun 28 17:55	0°♄	
minimum elong	2285 Jul 20 04:42	27°♄48'49	1°31'34				
	2285 Jul 21 05:15	0°♄		superior conj	2286 Jul 04 16:23	12°♄53'48	1°16'52
max. Earth dist.	2285 Jul 22 20:29	3°♄27'50	1.33680 AU	minimum elong	2286 Jul 04 13:59	12°♄40'43	1°16'32
evening rise	2285 Jul 27 21:53	13°♄50'01		max. Earth dist.	2286 Jul 06 01:56	15°♄56'18	1.32781 AU
	2285 Aug 05 13:28	0°♄		evening rise	2286 Jul 11 20:55	28°♄11'34	
desc. node	2285 Aug 16 17:14	17°♄48'12			2286 Jul 12 18:13	0°♄	
	2285 Aug 26 01:33	0°♄			2286 Jul 29 18:37	0°♄	
evening max el	2285 Aug 31 02:30	5°♄20'00	27°19'42	desc. node	2286 Aug 03 14:13	6°♄50'02	
retrograde	2285 Sep 13 14:08	12°♄38'29		evening max el	2286 Aug 13 12:00	18°♄16'27	27°23'56
evening set	2285 Sep 20 15:45	9°♄55'47		retrograde	2286 Aug 27 06:18	25°♄33'25	
min. Earth dist.	2285 Sep 24 09:39	6°♄27'49	0.64459 AU	evening set	2286 Sep 03 11:14	23°♄01'48	
inferior conj	2285 Sep 26 17:39	3°♄57'38	-2°50'31	min. Earth dist.	2286 Sep 07 01:31	20°♄03'46	0.62752 AU
minimum elong	2285 Sep 26 22:10	3°♄45'30	2°48'56	inferior conj	2286 Sep 09 21:40	17°♄20'03	-3°45'16
	2285 Sep 30 20:05	30°♄♄		minimum elong	2286 Sep 10 03:04	17°♄07'02	3°43'47
morning rise	2285 Oct 03 05:38	28°♄30'58		morning rise	2286 Sep 16 20:22	12°♄11'27	
direct	2285 Oct 05 20:02	27°♄56'12		direct	2286 Sep 19 07:02	11°♄44'05	
asc. node	2285 Oct 05 13:50	27°♄56'33		asc. node	2286 Sep 22 10:53	12°♄31'03	
	2285 Oct 10 19:21	0°♄		morning max el	2286 Sep 26 00:10	15°♄10'35	17°51'29
morning max el	2285 Oct 12 08:08	1°♄22'54	17°58'19		2286 Oct 06 07:23	0°♄	
morning set	2285 Oct 29 16:31	27°♄43'57		morning set	2286 Oct 12 04:22	10°♄19'39	
	2285 Oct 31 00:44	0°♄			2286 Oct 23 11:48	0°♄	
superior conj	2285 Nov 12 01:30	19°♄52'19	0°04'16	superior conj	2286 Oct 23 15:02	0°♄13'37	0°46'16
minimum elong	2285 Nov 12 02:00	19°♄54'19	0°04'12	minimum elong	2286 Oct 23 19:06	0°♄30'45	0°45'44
behind sun begin	2285 Nov 11 15:57	19°♄13'48		max. Earth dist.	2286 Oct 30 11:26	11°♄31'45	1.43510 AU
behind sun end	2285 Nov 12 12:02	20°♄34'46		desc. node	2286 Oct 30 13:34	11°♄40'23	
desc. node	2285 Nov 12 16:34	20°♄52'59		evening rise	2286 Nov 07 16:22	24°♄30'50	
max. Earth dist.	2285 Nov 16 20:02	27°♄29'39	1.44670 AU		2286 Nov 11 05:55	0°♄	
	2285 Nov 18 10:06	0°♄			2286 Dec 02 01:15	0°♄	
evening rise	2285 Nov 28 07:38	15°♄24'23		evening max el	2286 Dec 08 00:42	7°♄01'05	21°17'55
	2285 Dec 07 21:08	0°♄		retrograde	2286 Dec 16 17:59	12°♄11'48	
greatest brilliancy	2285 Dec 12 16:50	7°♄11'29	-0.6m	asc. node	2286 Dec 19 10:07	11°♄32'17	
evening max el	2285 Dec 25 01:56	23°♄30'18	20°09'42	evening set	2286 Dec 20 21:26	10°♄35'29	
retrograde	2286 Jan 01 20:24	28°♄03'48		inferior conj	2286 Dec 26 06:00	4°♄21'01	2°10'12
asc. node	2286 Jan 01 13:05	28°♄03'17		minimum elong	2286 Dec 26 03:34	4°♄29'27	2°09'22
evening set	2286 Jan 05 13:54	26°♄42'47		min. Earth dist.	2286 Dec 26 13:18	3°♄55'48	0.67648 AU
inferior conj	2286 Jan 10 23:59	20°♄38'31	2°48'28		2286 Dec 29 13:54	30°♄♄	
minimum elong	2286 Jan 10 21:23	20°♄47'17	2°47'46	morning rise	2286 Dec 31 09:30	28°♄08'13	
min. Earth dist.	2286 Jan 11 19:28	19°♄32'52	0.67078 AU	direct	2287 Jan 05 13:54	25°♄53'00	
morning rise	2286 Jan 16 04:39	14°♄25'03			2287 Jan 13 19:17	0°♄	
direct	2286 Jan 21 23:51	11°♄50'02		morning max el	2287 Jan 16 00:38	2°♄06'16	23°27'48
morning max el	2286 Feb 02 15:56	18°♄48'01	24°55'45	desc. node	2287 Jan 26 12:49	14°♄45'07	
desc. node	2286 Feb 08 15:48	25°♄33'31			2287 Feb 06 04:56	0°♄	
	2286 Feb 12 03:34	0°♄		morning set	2287 Feb 20 04:18	22°♄16'41	
	2286 Mar 04 04:28	0°♄		max. Earth dist.	2287 Feb 24 05:45	29°♄15'30	1.39086 AU
morning set	2286 Mar 10 19:30	11°♄23'56			2287 Feb 24 15:54	0°♄	
max. Earth dist.	2286 Mar 14 11:08	18°♄01'06	1.36975 AU				

superior conj	2287 Mar 03 18:44	12° H 53'52	-1°49'27	superior conj	2288 Feb 13 21:36	24° \approx 37'02	-2°03'06
minimum elong	2287 Mar 03 22:55	13° H 13'23	1°49'05	minimum elong	2288 Feb 13 23:48	24° \approx 46'47	2°03'02
	2287 Mar 12 17:01	0° Y			2288 Feb 16 21:52	0° H	
evening rise	2287 Mar 13 01:51	0° Y 42'50		evening rise	2288 Feb 24 09:30	13° H 45'46	
asc. node	2287 Mar 17 09:25	8° Y 57'16		asc. node	2288 Mar 03 06:28	27° H 59'49	
evening max el	2287 Mar 29 08:58	26° Y 59'06	18°41'13		2288 Mar 04 11:16	0° Y	
	2287 Apr 02 13:21	0° B		evening max el	2288 Mar 11 16:44	9° Y 44'43	18°14'29
retrograde	2287 Apr 06 08:02	0° B 52'19		retrograde	2288 Mar 18 16:57	13° Y 15'15	
evening set	2287 Apr 08 14:44	0° B 34'23		evening set	2288 Mar 21 05:47	12° Y 48'37	
	2287 Apr 10 06:54	30° R Y		inferior conj	2288 Mar 28 05:41	8° Y 04'15	3°08'33
inferior conj	2287 Apr 16 08:28	26° Y 11'01	2°10'40	minimum elong	2288 Mar 28 08:55	7° Y 57'06	3°07'57
minimum elong	2287 Apr 16 12:23	26° Y 03'38	2°09'32	min. Earth dist.	2288 Mar 31 15:09	5° Y 06'38	0.59715 AU
min. Earth dist.	2287 Apr 19 16:55	23° Y 40'49	0.57632 AU	morning rise	2288 Apr 04 09:43	2° Y 23'13	
morning rise	2287 Apr 24 06:54	20° Y 55'21		desc. node	2288 Apr 10 09:01	0° Y 28'24	
desc. node	2287 Apr 24 11:58	20° Y 49'39		direct	2288 Apr 10 20:50	0° Y 27'44	
direct	2287 Apr 29 22:25	19° Y 36'13		morning max el	2288 Apr 25 04:34	8° Y 15'55	27°24'48
morning max el	2287 May 14 07:02	27° Y 10'17	26°24'07		2288 May 11 16:56	0° B	
	2287 May 17 00:25	0° B		morning set	2288 May 26 12:03	27° B 21'50	
	2287 Jun 05 20:25	0° II			2288 May 27 18:12	0° II	
morning set	2287 Jun 12 03:52	12° II 39'38		asc. node	2288 May 30 05:44	5° II 18'41	
asc. node	2287 Jun 13 08:42	15° II 12'31		max. Earth dist.	2288 Jun 02 00:48	11° II 24'54	1.32168 AU
superior conj	2287 Jun 19 03:51	27° II 50'58	0°57'49	superior conj	2288 Jun 02 15:32	12° II 45'51	0°35'19
minimum elong	2287 Jun 19 01:41	27° II 39'02	0°57'25	minimum elong	2288 Jun 02 14:01	12° II 37'35	0°35'00
max. Earth dist.	2287 Jun 19 12:33	28° II 38'49	1.32281 AU	evening rise	2288 Jun 09 11:59	27° II 40'19	
	2287 Jun 20 03:19	0° E			2288 Jun 10 14:34	0° E	
evening rise	2287 Jun 26 02:25	12° E 50'58			2288 Jun 27 12:48	0° O	
	2287 Jul 04 21:01	0° O		desc. node	2288 Jul 07 08:16	11° O 49'59	
desc. node	2287 Jul 21 11:14	24° O 58'05		evening max el	2288 Jul 07 14:35	12° O 05'08	25°54'31
	2287 Jul 26 02:31	0° P		retrograde	2288 Jul 21 14:34	19° O 14'22	
evening max el	2287 Jul 26 16:46	0° P 34'17	26°55'21	evening set	2288 Jul 27 19:02	17° O 42'45	
retrograde	2287 Aug 09 15:02	7° P 47'34		min. Earth dist.	2288 Aug 01 02:59	15° O 05'21	0.58720 AU
evening set	2287 Aug 16 13:56	5° P 40'29		inferior conj	2288 Aug 04 09:21	12° O 41'51	-4°57'32
min. Earth dist.	2287 Aug 20 06:59	3° P 01'05	0.60782 AU	minimum elong	2288 Aug 04 11:16	12° O 38'19	4°57'25
inferior conj	2287 Aug 23 12:06	0° P 18'12	-4°30'42	morning rise	2288 Aug 12 05:43	8° O 17'10	
minimum elong	2287 Aug 23 16:58	0° P 07'53	4°29'50	direct	2288 Aug 14 17:29	7° O 56'48	
	2287 Aug 23 20:42	30° R O		morning max el	2288 Aug 22 20:28	11° O 49'28	18°35'54
morning rise	2287 Aug 30 21:49	25° O 30'35		asc. node	2288 Aug 26 04:58	15° O 36'38	
direct	2287 Sep 02 07:38	25° O 07'46			2288 Sep 04 00:56	0° P	
asc. node	2287 Sep 09 07:56	28° O 29'30		morning set	2288 Sep 08 02:03	7° P 43'20	
morning max el	2287 Sep 09 13:21	28° O 42'28	18°03'35				
	2287 Sep 10 19:04	0° P		superior conj	2288 Sep 16 21:19	24° P 37'23	1°35'49
morning set	2287 Sep 25 09:14	23° P 44'20		minimum elong	2288 Sep 17 00:08	24° P 50'33	1°35'37
	2287 Sep 28 18:09	0° E			2288 Sep 19 19:08	0° E	
superior conj	2287 Oct 05 07:12	11° E 53'10	1°16'55	max. Earth dist.	2288 Sep 24 04:09	7° E 49'11	1.39832 AU
minimum elong	2287 Oct 05 11:30	12° E 12'16	1°16'27	evening rise	2288 Sep 28 07:51	14° E 56'32	
max. Earth dist.	2287 Oct 12 22:08	25° E 01'24	1.41827 AU	desc. node	2288 Oct 03 07:36	23° E 08'07	
	2287 Oct 15 22:26	0° M			2288 Oct 07 16:21	0° M	
desc. node	2287 Oct 17 10:35	2° M 26'48		evening max el	2288 Oct 29 11:22	0° J	
evening rise	2287 Oct 18 13:03	4° M 13'12		retrograde	2288 Nov 02 08:11	4° J 10'12	23°54'41
	2287 Nov 04 14:07	0° J		evening set	2288 Nov 13 05:49	10° J 35'05	
evening max el	2287 Nov 20 18:20	20° J 34'13	22°34'42	asc. node	2288 Nov 18 10:35	8° J 25'10	
retrograde	2287 Nov 30 13:30	26° J 23'32		inferior conj	2288 Nov 22 04:12	4° J 16'51	
evening set	2287 Dec 05 04:52	24° J 30'37		minimum elong	2288 Nov 23 20:35	2° J 01'17	0°34'30
asc. node	2287 Dec 06 07:09	23° J 30'19		min. Earth dist.	2288 Nov 23 19:46	2° J 04'03	0°34'10
inferior conj	2287 Dec 10 13:28	18° J 09'34	1°25'07		2288 Nov 23 06:07	2° J 50'23	0.67726 AU
minimum elong	2287 Dec 10 11:39	18° J 15'52	1°24'24		2288 Nov 25 08:56	30° R M	
min. Earth dist.	2287 Dec 10 09:40	18° J 22'45	0.67860 AU	morning rise	2288 Nov 29 04:56	25° M 55'52	
morning rise	2287 Dec 15 18:17	11° J 59'20		direct	2288 Dec 03 04:39	24° M 25'52	
direct	2287 Dec 20 07:51	10° J 06'50		morning max el	2288 Dec 11 07:25	29° M 06'49	20°41'47
morning max el	2287 Dec 29 12:39	15° J 31'15	22°00'41		2288 Dec 12 03:58	0° J	
	2288 Jan 10 05:25	0° Z		desc. node	2288 Dec 30 06:53	24° J 35'54	
desc. node	2288 Jan 13 09:51	4° Z 29'01			2289 Jan 02 21:01	0° Z	
	2288 Jan 30 05:56	0° \approx		morning set	2289 Jan 09 11:05	10° Z 06'53	
morning set	2288 Jan 31 08:15	1° \approx 45'29		max. Earth dist.	2289 Jan 18 09:12	24° Z 15'40	1.43085 AU
max. Earth dist.	2288 Feb 06 03:36	11° \approx 16'54	1.41224 AU		2289 Jan 21 21:30	0° \approx	

superior conj	2289 Jan 25 00:40	5° \approx 12'38	-2°03'44	superior conj	2290 Jan 05 01:26	14° \approx 37'18	-1°46'35
minimum elong	2289 Jan 24 22:17	5° \approx 02'35	2°03'40	minimum elong	2290 Jan 04 17:45	14° \approx 06'28	1°45'59
evening rise	2289 Feb 06 01:49	26° \approx 03'38			2290 Jan 14 11:20	0° \approx	
	2289 Feb 08 07:14	0° \approx		evening rise	2290 Jan 18 22:31	7° \approx 28'25	
asc. node	2289 Feb 18 03:30	16° \approx 30'12			2290 Feb 01 18:31	0° \approx	
evening max el	2289 Feb 23 04:22	22° \approx 50'50	18°07'25	asc. node	2290 Feb 05 00:33	4° \approx 18'26	
retrograde	2289 Mar 01 17:17	26° \approx 14'23		evening max el	2290 Feb 06 16:56	6° \approx 09'44	18°19'20
evening set	2289 Mar 04 11:27	25° \approx 37'43		retrograde	2290 Feb 13 04:15	9° \approx 39'30	
inferior conj	2289 Mar 10 21:17	20° \approx 32'36	3°36'43	evening set	2290 Feb 16 03:39	8° \approx 51'54	
minimum elong	2289 Mar 10 22:39	20° \approx 29'09	3°36'38	inferior conj	2290 Feb 22 03:11	3° \approx 27'34	3°42'07
min. Earth dist.	2289 Mar 13 21:08	17° \approx 32'23	0.61847 AU	minimum elong	2290 Feb 22 02:43	3° \approx 28'55	3°42'07
morning rise	2289 Mar 17 08:26	14° \approx 35'31		min. Earth dist.	2290 Feb 24 12:34	0° \approx 45'56	0.63788 AU
direct	2289 Mar 24 05:30	12° \approx 08'27			2290 Feb 25 05:39	30° \approx	
desc. node	2289 Mar 28 06:04	12° \approx 53'56		morning rise	2290 Feb 28 01:01	27° \approx 21'28	
morning max el	2289 Apr 07 08:32	20° \approx 03'54	27°49'40	direct	2290 Mar 06 22:42	24° \approx 34'46	
	2289 Apr 15 20:54	0° \approx		desc. node	2290 Mar 15 03:07	27° \approx 42'18	
	2289 May 04 14:53	0° \approx			2290 Mar 18 00:53	0° \approx	
morning set	2289 May 10 15:38	11° \approx 48'08		morning max el	2290 Mar 20 16:51	2° \approx 30'00	27°37'19
max. Earth dist.	2289 May 16 10:46	24° \approx 01'22	1.32441 AU		2290 Apr 10 04:10	0° \approx	
asc. node	2289 May 17 02:48	25° \approx 08'15		morning set	2290 Apr 24 12:06	25° \approx 49'24	
					2290 Apr 26 13:58	0° \approx	
superior conj	2289 May 18 01:43	27° \approx 32'57	0°10'05	max. Earth dist.	2290 Apr 29 14:07	6° \approx 13'01	1.33132 AU
minimum elong	2289 May 18 01:15	27° \approx 30'23	0°09'58				
behind sun begin	2289 May 17 21:14	27° \approx 08'27		superior conj	2290 May 02 08:32	12° \approx 05'09	-0°17'10
behind sun end	2289 May 18 05:16	27° \approx 52'19		minimum elong	2290 May 02 09:23	12° \approx 09'42	0°17'00
	2289 May 19 04:40	0° \approx		asc. node	2290 May 03 23:50	15° \approx 36'11	
evening rise	2289 May 24 23:34	12° \approx 32'47		evening rise	2290 May 09 11:14	27° \approx 20'39	
	2289 Jun 02 19:41	0° \approx			2290 May 10 17:38	0° \approx	
evening max el	2289 Jun 19 05:51	22° \approx 53'44	24°29'09		2290 May 28 16:16	0° \approx	
desc. node	2289 Jun 24 05:18	26° \approx 55'55		evening max el	2290 May 31 19:45	3° \approx 21'56	22°53'11
retrograde	2289 Jul 03 03:14	29° \approx 55'03		desc. node	2290 Jun 11 02:20	9° \approx 38'54	
evening set	2289 Jul 08 00:32	29° \approx 01'26		retrograde	2290 Jun 14 03:38	10° \approx 00'13	
min. Earth dist.	2289 Jul 13 16:49	26° \approx 08'05	0.56831 AU	evening set	2290 Jun 17 12:57	9° \approx 35'01	
inferior conj	2289 Jul 16 10:45	24° \approx 22'57	-4°52'28	min. Earth dist.	2290 Jun 25 04:30	6° \approx 11'45	0.55451 AU
minimum elong	2289 Jul 16 07:25	24° \approx 28'17	4°52'11	inferior conj	2290 Jun 26 16:56	5° \approx 19'13	-4°02'06
morning rise	2289 Jul 24 17:01	20° \approx 19'19		minimum elong	2290 Jun 26 09:16	5° \approx 30'17	4°00'22
direct	2289 Jul 27 08:36	20° \approx 00'11		morning rise	2290 Jul 05 08:00	1° \approx 27'02	
morning max el	2289 Aug 05 18:36	24° \approx 23'04	19°29'26	direct	2290 Jul 08 04:55	1° \approx 07'42	
	2289 Aug 10 14:51	0° \approx		morning max el	2290 Jul 19 05:33	6° \approx 14'21	20°44'00
asc. node	2289 Aug 13 02:02	3° \approx 08'09		asc. node	2290 Jul 30 23:05	22° \approx 20'34	
morning set	2289 Aug 23 03:10	22° \approx 06'58			2290 Aug 04 01:01	0° \approx	
	2289 Aug 27 01:11	0° \approx		morning set	2290 Aug 07 09:47	6° \approx 46'53	
superior conj	2289 Aug 31 03:52	8° \approx 11'03	1°44'29	superior conj	2290 Aug 14 22:04	22° \approx 19'27	1°44'43
minimum elong	2289 Aug 31 04:49	8° \approx 15'39	1°44'27	minimum elong	2290 Aug 14 21:24	22° \approx 16'03	1°44'42
max. Earth dist.	2289 Sep 06 08:09	19° \approx 58'09	1.37783 AU		2290 Aug 18 17:38	0° \approx	
evening rise	2289 Sep 10 02:24	26° \approx 46'20		max. Earth dist.	2290 Aug 19 15:37	1° \approx 48'01	1.35915 AU
	2289 Sep 11 22:35	0° \approx		evening rise	2290 Aug 23 17:13	9° \approx 33'52	
desc. node	2289 Sep 20 04:38	13° \approx 04'19			2290 Sep 04 13:07	0° \approx	
	2289 Oct 01 04:23	0° \approx		desc. node	2290 Sep 07 01:40	3° \approx 57'47	
evening max el	2289 Oct 15 20:15	17° \approx 49'10	25°11'10		2290 Sep 26 20:51	0° \approx	
retrograde	2289 Oct 27 17:58	24° \approx 42'17		evening max el	2290 Sep 28 08:16	1° \approx 28'30	26°16'51
evening set	2289 Nov 02 12:56	22° \approx 16'36		retrograde	2290 Oct 11 01:20	8° \approx 39'10	
min. Earth dist.	2289 Nov 07 00:23	17° \approx 16'15	0.67255 AU	evening set	2290 Oct 17 10:01	6° \approx 01'28	
inferior conj	2289 Nov 08 01:35	15° \approx 15'40	-0°20'23	min. Earth dist.	2290 Oct 21 14:07	1° \approx 36'54	0.66440 AU
minimum elong	2289 Nov 08 02:06	15° \approx 52'23	0°20'09		2290 Oct 22 21:40	30° \approx	
asc. node	2289 Nov 09 01:15	14° \approx 37'35		inferior conj	2290 Oct 23 02:37	29° \approx 44'47	-1°18'10
morning rise	2289 Nov 13 15:29	9° \approx 55'42		minimum elong	2290 Oct 23 04:42	29° \approx 38'23	1°17'18
direct	2289 Nov 17 02:58	8° \approx 45'54		asc. node	2290 Oct 26 22:18	25° \approx 29'24	
morning max el	2289 Nov 24 10:05	12° \approx 53'24	19°35'38	morning rise	2290 Oct 28 23:51	23° \approx 56'08	
	2289 Dec 07 07:37	0° \approx		direct	2290 Nov 01 01:15	23° \approx 02'55	
greatest brilliancy	2289 Dec 07 16:27	0° \approx 32'59	-0.7m	morning max el	2290 Nov 07 19:39	26° \approx 47'30	18°44'44
desc. node	2289 Dec 17 03:55	14° \approx 59'19			2290 Nov 10 15:40	0° \approx	
morning set	2289 Dec 19 08:11	18° \approx 21'01		morning set	2290 Nov 28 23:50	27° \approx 36'16	
	2289 Dec 26 19:55	0° \approx			2290 Nov 30 12:13	0° \approx	
max. Earth dist.	2289 Dec 31 21:44	7° \approx 59'41	1.44428 AU	desc. node	2290 Dec 04 00:57	5° \approx 34'20	
				max. Earth dist.	2290 Dec 14 14:51	22° \approx 11'50	1.45100 AU

superior conj	2290 Dec 15 06:27	23°  13'03	-1°10'46	max. Earth dist.	2291 Nov 27 09:56	6°  35'00	1.45038 AU
minimum elong	2290 Dec 14 22:08	22°  40'25	1°09'49	evening rise	2291 Dec 10 19:31	27°  29'57	
	2290 Dec 19 13:52	0°  3			2291 Dec 12 10:10	0°  3	
evening rise	2290 Dec 30 20:13	17°  35'37		greatest brilliancy	2291 Dec 23 08:33	16°  34'03	-0.7m
greatest brilliancy	2291 Jan 06 21:47	29°  31'50	-0.9m		2292 Jan 01 17:48	0°  3	
	2291 Jan 07 08:35	0°  3		evening max el	2292 Jan 04 11:11	3°  05'37	19°36'09
evening max el	2291 Jan 21 03:55	19°  36'14	18°49'23	asc. node	2292 Jan 09 18:38	6°  35'31	
asc. node	2291 Jan 22 21:36	21°  31'23		retrograde	2292 Jan 11 18:45	7°  31'31	
retrograde	2291 Jan 27 21:48	23°  32'20		evening set	2292 Jan 15 07:24	6°  30'41	
evening set	2291 Jan 31 03:10	22°  33'46		inferior conj	2292 Jan 20 19:11	0°  31'03	3°06'45
inferior conj	2291 Feb 05 19:34	16°  34'10	3°30'43	minimum elong	2292 Jan 20 16:43	0°  31'18	3°06'12
minimum elong	2291 Feb 05 17:47	16°  34'40	3°30'28		2292 Jan 20 22:15	30°  R  3	
min. Earth dist.	2291 Feb 07 13:27	14°  33'11	0.65387 AU	min. Earth dist.	2292 Jan 21 22:24	28°  34'03	0.66583 AU
morning rise	2291 Feb 11 08:00	10°  31'26		morning rise	2292 Jan 26 01:48	23°  35'15	
direct	2291 Feb 17 23:01	7°  39'38		direct	2292 Feb 01 05:10	21°  31'19	
desc. node	2291 Mar 02 00:09	14°  38'22		morning max el	2292 Feb 13 11:46	28°  31'24	25°42'53
morning max el	2291 Mar 03 02:39	15°  32'23	26°52'19		2292 Feb 14 21:50	0°  3	
	2291 Mar 15 02:57	0°  3		desc. node	2292 Feb 16 21:11	2°  31'06	
	2291 Apr 02 22:26	0°  3			2292 Mar 07 21:30	0°  3	
morning set	2291 Apr 07 22:16	9°  31'13		morning set	2292 Mar 20 17:48	21°  31'55	19°
max. Earth dist.	2291 Apr 12 07:18	17°  31'31	1.34278 AU	max. Earth dist.	2292 Mar 24 12:46	29°  31'00	1.35882 AU
					2292 Mar 25 01:14	0°  3	
superior conj	2291 Apr 16 09:55	26°  31'36	-0°45'18	superior conj	2292 Mar 30 03:16	9°  31'59	-1°12'50
minimum elong	2291 Apr 16 12:14	26°  31'37	0°44'50	minimum elong	2292 Mar 30 06:54	10°  31'17	1°12'14
	2291 Apr 18 04:37	0°  3		asc. node	2292 Apr 06 17:55	25°  31'31	
asc. node	2291 Apr 20 20:53	5°  38'46		evening rise	2292 Apr 07 03:17	26°  31'19	
evening rise	2291 Apr 23 21:10	11°  38'58	20		2292 Apr 08 23:00	0°  3	
	2291 May 03 06:04	0°  3		evening max el	2292 Apr 24 23:38	25°  31'17	20°03'56
evening max el	2291 May 13 16:07	14°  32'02	21°21'22		2292 May 02 17:52	0°  3	
retrograde	2291 May 25 17:54	19°  32'56	58	retrograde	2292 May 05 08:22	0°  32'18	30
evening set	2291 May 28 01:57	19°  32'44	29	evening set	2292 May 07 08:43	0°  32'18	58
desc. node	2291 May 28 23:21	19°  32'33	25		2292 May 08 00:46	30°  R  8	
inferior conj	2291 Jun 06 11:30	15°  32'45	00	desc. node	2292 May 14 20:21	27°  32'01	50
minimum elong	2291 Jun 06 04:55	15°  32'54	14	inferior conj	2292 May 16 08:16	26°  32'08	-0°26'15
min. Earth dist.	2291 Jun 06 16:30	15°  32'37	59	minimum elong	2292 May 16 07:04	26°  32'10	27
morning rise	2291 Jun 15 08:22	11°  32'46	57	min. Earth dist.	2292 May 18 05:37	25°  32'00	47
direct	2291 Jun 18 15:12	11°  32'23	30	morning rise	2292 May 25 03:35	21°  32'46	23
morning max el	2291 Jul 01 05:20	17°  32'21	42	direct	2292 May 29 04:26	21°  32'10	48
	2291 Jul 11 06:09	0°  3		morning max el	2292 Jun 11 21:21	27°  32'56	08
asc. node	2291 Jul 17 20:07	11°  32'33	56		2292 Jun 13 22:39	0°  3	
morning set	2291 Jul 22 19:49	21°  32'37	21		2292 Jul 03 03:16	0°  3	
	2291 Jul 26 18:46	0°  3		asc. node	2292 Jul 03 17:10	1°  32'10	13
superior conj	2291 Jul 30 00:17	6°  32'51	54	morning set	2292 Jul 06 07:30	6°  32'33	10
minimum elong	2291 Jul 29 22:32	6°  32'42	36	superior conj	2292 Jul 13 07:49	21°  32'39	53
max. Earth dist.	2291 Aug 02 07:37	13°  32'45	43	minimum elong	2292 Jul 13 05:30	21°  32'27	21
evening rise	2291 Aug 06 23:45	23°  32'07	12	max. Earth dist.	2292 Jul 15 08:58	26°  32'04	07
	2291 Aug 10 14:43	0°  3			2292 Jul 17 05:28	0°  3	
desc. node	2291 Aug 24 22:40	23°  32'17	53	evening rise	2292 Jul 20 17:48	7°  32'14	26
	2291 Aug 29 04:52	0°  3			2292 Aug 02 02:59	0°  3	
evening max el	2291 Sep 10 20:38	15°  32'01	05	desc. node	2292 Aug 10 19:40	13°  32'17	04
retrograde	2291 Sep 24 03:05	22°  32'18	34	evening max el	2292 Aug 23 07:59	28°  32'15	23
evening set	2291 Sep 30 23:32	19°  32'35	22		2292 Aug 25 06:17	0°  3	
min. Earth dist.	2291 Oct 04 20:57	15°  32'47	00	retrograde	2292 Sep 05 22:42	5°  32'32	46
inferior conj	2291 Oct 06 21:32	13°  32'29	11	evening set	2292 Sep 13 02:38	2°  32'53	34
minimum elong	2291 Oct 07 01:14	13°  32'18	43		2292 Sep 16 10:15	30°  R  17	
morning rise	2291 Oct 13 03:44	7°  32'53	17	min. Earth dist.	2292 Sep 16 18:42	29°  32'17	39
asc. node	2291 Oct 13 19:21	7°  32'36	25	inferior conj	2292 Sep 19 07:53	27°  32'17	02
direct	2291 Oct 15 21:25	7°  32'12	47	minimum elong	2292 Sep 19 12:54	26°  32'17	49
morning max el	2291 Oct 22 09:53	10°  32'43	41	morning rise	2292 Sep 26 00:19	21°  32'17	42
	2291 Nov 04 19:17	0°  3		direct	2292 Sep 28 12:53	21°  32'17	11
morning set	2291 Nov 09 20:34	8°  32'18	44	asc. node	2292 Sep 29 16:23	21°  32'17	17
desc. node	2291 Nov 20 21:58	26°  32'16	36	morning max el	2292 Oct 05 02:07	24°  32'16	37
	2291 Nov 23 06:01	0°  3			2292 Oct 09 11:40	0°  3	
superior conj	2291 Nov 24 10:02	1°  32'51	08	morning set	2292 Oct 21 20:00	20°  32'19	12
minimum elong	2291 Nov 24 07:02	1°  32'39	16		2292 Oct 27 11:33	0°  3	

superior conj	2292 Nov 03 08:17	11°♍27'00	0°23'18	max. Earth dist.	2293 Oct 22 17:57	4°♍42'59	1.42850 AU
minimum elong	2292 Nov 03 10:46	11°♍37'10	0°22'57	desc. node	2293 Oct 24 16:00	7°♍50'16	
desc. node	2292 Nov 06 18:59	17°♍03'09		evening rise	2293 Oct 29 17:09	15°♍52'33	
max. Earth dist.	2292 Nov 09 04:00	20°♍51'48	1.44258 AU		2293 Nov 07 22:39	0°♌	
	2292 Nov 14 23:01	0°♌			2293 Nov 30 06:56	0°♌	
evening rise	2292 Nov 19 05:13	6°♌35'55		evening max el	2293 Nov 30 09:40	0°♌06'57	21°49'45
	2292 Dec 04 19:10	0°♌		retrograde	2293 Dec 09 13:38	5°♌34'17	
evening max el	2292 Dec 17 13:16	16°♌36'00	20°37'20	evening set	2293 Dec 13 22:00	3°♌50'48	
retrograde	2292 Dec 25 16:39	21°♌24'21		asc. node	2293 Dec 13 12:41	4°♌08'41	
asc. node	2292 Dec 26 15:39	21°♌19'14			2293 Dec 17 11:06	30°♌♌	
evening set	2292 Dec 29 14:17	19°♌56'48		inferior conj	2293 Dec 19 06:23	27°♌32'51	1°51'49
inferior conj	2293 Jan 03 23:30	13°♌47'51	2°33'08	minimum elong	2293 Dec 19 04:10	27°♌40'34	1°51'00
minimum elong	2293 Jan 03 20:55	13°♌56'41	2°32'21	min. Earth dist.	2293 Dec 19 08:46	27°♌24'36	0.67780 AU
min. Earth dist.	2293 Jan 04 13:36	12°♌59'46	0.67373 AU	morning rise	2293 Dec 24 10:10	21°♌21'00	
morning rise	2293 Jan 09 03:23	7°♌34'42		direct	2293 Dec 29 08:05	19°♌15'35	
direct	2293 Jan 14 16:25	5°♌07'39		morning max el	2294 Jan 08 06:02	25°♌08'01	22°50'12
morning max el	2293 Jan 25 20:10	11°♌46'50	24°18'49		2294 Jan 12 15:13	0°♌	
desc. node	2293 Feb 02 18:13	20°♌58'27		desc. node	2294 Jan 20 15:16	10°♌24'47	
	2293 Feb 09 10:31	0°♌			2294 Feb 02 22:45	0°♌	
	2293 Feb 28 16:03	0°♌		morning set	2294 Feb 11 14:05	13°♌49'11	
morning set	2293 Mar 02 17:07	3°♌31'25		max. Earth dist.	2294 Feb 16 05:23	21°♌37'33	1.40006 AU
max. Earth dist.	2293 Mar 06 09:50	10°♌04'31	1.37859 AU		2294 Feb 21 00:18	0°♌	
superior conj	2293 Mar 13 09:12	23°♌04'23	-1°37'36	superior conj	2294 Feb 23 23:24	5°♌20'49	-1°56'30
minimum elong	2293 Mar 13 13:33	23°♌25'18	1°37'05	minimum elong	2294 Feb 24 03:03	5°♌37'28	1°56'17
	2293 Mar 16 22:39	0°♌		evening rise	2294 Mar 05 17:48	23°♌41'28	
evening rise	2293 Mar 22 03:10	10°♌16'04			2294 Mar 09 01:54	0°♌	
asc. node	2293 Mar 24 14:57	15°♌09'13		asc. node	2294 Mar 11 12:00	4°♌26'50	
	2293 Apr 02 00:36	0°♌		evening max el	2294 Mar 21 22:38	19°♌41'54	18°27'24
evening max el	2293 Apr 07 18:36	7°♌12'09	19°05'33	retrograde	2294 Mar 29 10:45	23°♌23'55	
retrograde	2293 Apr 16 12:08	11°♌26'21		evening set	2294 Mar 31 19:58	23°♌02'38	
evening set	2293 Apr 18 15:24	11°♌12'12		inferior conj	2294 Apr 08 05:43	18°♌30'24	2°39'12
inferior conj	2293 Apr 26 20:24	6°♌59'15	1°21'59	minimum elong	2294 Apr 08 09:36	18°♌22'32	2°38'16
minimum elong	2293 Apr 26 23:27	6°♌53'59	1°20'58	min. Earth dist.	2294 Apr 11 16:12	15°♌45'29	0.58481 AU
min. Earth dist.	2293 Apr 29 20:53	4°♌55'18	0.56593 AU	morning rise	2294 Apr 15 20:19	13°♌02'21	
desc. node	2293 May 01 17:24	3°♌45'19		desc. node	2294 Apr 18 14:27	11°♌55'59	
morning rise	2293 May 05 04:27	2°♌02'26		direct	2294 Apr 21 20:55	11°♌28'01	
direct	2293 May 10 05:33	1°♌02'49		morning max el	2294 May 06 06:14	19°♌09'45	26°54'01
morning max el	2293 May 24 11:51	8°♌22'49	25°36'12		2294 May 15 10:15	0°♌	
	2293 Jun 09 14:17	0°♌			2294 Jun 02 03:34	0°♌	
morning set	2293 Jun 20 19:07	21°♌28'16		morning set	2294 Jun 05 05:06	6°♌17'18	
asc. node	2293 Jun 20 14:12	21°♌02'18		asc. node	2294 Jun 07 11:16	11°♌05'01	
	2293 Jun 24 18:12	0°♌					
superior conj	2293 Jun 27 18:23	6°♌35'29	1°09'16	superior conj	2294 Jun 12 06:11	21°♌32'44	0°48'41
minimum elong	2293 Jun 27 16:02	6°♌22'34	1°08'52	minimum elong	2294 Jun 12 04:15	21°♌22'05	0°48'17
max. Earth dist.	2293 Jun 28 17:15	8°♌40'37	1.32521 AU	max. Earth dist.	2294 Jun 12 05:04	21°♌26'31	1.32183 AU
evening rise	2293 Jul 04 19:54	21°♌44'26		evening rise	2294 Jun 16 02:44	0°♌	
	2293 Jul 08 22:31	0°♌			2294 Jun 19 03:25	6°♌29'00	
	2293 Jul 27 03:57	0°♌			2294 Jul 01 12:26	0°♌	
desc. node	2293 Jul 28 16:42	2°♌00'20		desc. node	2294 Jul 15 13:43	19°♌39'09	
evening max el	2293 Aug 05 15:46	10°♌56'37	27°15'50	evening max el	2294 Jul 18 17:30	22°♌53'57	26°33'01
retrograde	2293 Aug 19 11:35	18°♌11'37		retrograde	2294 Jul 31 02:37	0°♌	
evening set	2293 Aug 26 15:33	15°♌48'37			2294 Aug 01 16:51	0°♌06'22	
min. Earth dist.	2293 Aug 30 05:53	13°♌00'35	0.61944 AU	evening set	2294 Aug 03 06:46	30°♌♌	
inferior conj	2293 Sep 02 06:34	10°♌15'11	-4°06'07	min. Earth dist.	2294 Aug 08 09:39	28°♌12'57	
minimum elong	2293 Sep 02 11:58	10°♌02'50	4°04'50	inferior conj	2294 Aug 12 06:57	25°♌36'50	0.59906 AU
morning rise	2293 Sep 09 09:58	5°♌15'19		minimum elong	2294 Aug 15 14:05	22°♌59'25	-4°45'03
direct	2293 Sep 11 20:03	4°♌50'05		morning rise	2294 Aug 15 18:02	22°♌51'31	4°44'32
asc. node	2293 Sep 16 13:25	6°♌29'28		direct	2294 Aug 23 04:29	18°♌21'50	
morning max el	2293 Sep 18 17:21	8°♌18'33	17°54'18	morning max el	2294 Aug 25 14:44	18°♌00'21	
	2293 Oct 02 20:07	0°♌		asc. node	2294 Sep 02 04:25	21°♌41'11	18°14'48
morning set	2293 Oct 04 15:47	3°♌17'33			2294 Sep 03 10:28	22°♌58'49	
					2294 Sep 08 14:35	0°♌	
				morning set	2294 Sep 18 02:13	16°♌57'38	
superior conj	2293 Oct 15 09:32	22°♌22'36	1°00'45		2294 Sep 25 00:31	0°♌	
minimum elong	2293 Oct 15 14:01	22°♌41'55	1°00'11				
	2293 Oct 19 21:28	0°♌		superior conj	2294 Sep 27 11:44	4°♌31'33	1°26'18
























































































































































































































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max. Earth dist.	2294 Oct 05 02:05	17°♄53'25	1.41000 AU	max. Earth dist.	2295 Sep 17 06:14	0°♄21'16	1.38951 AU
evening rise	2294 Oct 09 22:28	25°♄58'19		evening rise	2295 Sep 21 03:37	7°♄10'38	
desc. node	2294 Oct 11 13:02	28°♄34'43		desc. node	2295 Sep 28 10:04	19°♄12'44	
	2294 Oct 12 10:16	0°♄			2295 Oct 05 09:58	0°♄	
	2294 Nov 01 17:19	0°♄		evening max el	2295 Oct 26 14:11	27°♄17'54	24°28'10
evening max el	2294 Nov 13 01:16	13°♄40'09	23°08'42		2295 Oct 29 13:15	0°♄	
retrograde	2294 Nov 23 08:04	19°♄46'01		retrograde	2295 Nov 06 22:46	3°♄56'10	
evening set	2294 Nov 28 04:55	17°♄45'50		evening set	2295 Nov 12 09:24	1°♄39'34	
asc. node	2294 Nov 30 09:44	15°♄32'08			2295 Nov 14 02:08	30°♄♄	
min. Earth dist.	2294 Dec 03 05:32	11°♄51'41	0.67839 AU	min. Earth dist.	2295 Nov 17 01:28	26°♄18'58	0.67563 AU
inferior conj	2294 Dec 03 13:56	11°♄22'47	1°04'14	asc. node	2295 Nov 17 06:46	26°♄01'17	
minimum elong	2294 Dec 03 12:29	11°♄27'45	1°03'40	inferior conj	2295 Nov 17 20:22	25°♄15'40	0°11'42
morning rise	2294 Dec 08 19:59	5°♄14'10		minimum elong	2295 Nov 17 20:05	25°♄16'38	0°11'35
direct	2294 Dec 13 03:23	3°♄31'32		transit middle	2295 Nov 17 20:05	25°♄16'38	0°11'35
morning max el	2294 Dec 21 20:39	8°♄37'03	21°25'43	transit begin	2295 Nov 17 18:10	25°♄23'05	
	2295 Jan 07 07:05	0°♄		transit end	2295 Nov 17 22:01	25°♄10'12	
desc. node	2295 Jan 07 12:18	0°♄18'59		morning rise	2295 Nov 23 06:49	19°♄12'39	
morning set	2295 Jan 22 06:00	22°♄44'30		direct	2295 Nov 27 01:07	17°♄51'31	
	2295 Jan 26 18:46	0°♄		morning max el	2295 Dec 04 18:40	22°♄17'07	20°11'49
max. Earth dist.	2295 Jan 29 05:44	4°♄01'01	1.42058 AU		2295 Dec 11 05:32	0°♄	
				desc. node	2295 Dec 25 09:20	20°♄33'40	
superior conj	2295 Feb 05 16:41	16°♄35'47	-2°05'17		2295 Dec 31 13:25	0°♄	
minimum elong	2295 Feb 05 17:14	16°♄38'10	2°05'17	morning set	2296 Jan 01 03:10	0°♄53'04	
	2295 Feb 13 06:27	0°♄		max. Earth dist.	2296 Jan 11 14:11	17°♄19'45	1.43733 AU
evening rise	2295 Feb 16 19:27	6°♄25'47					
asc. node	2295 Feb 26 09:04	23°♄16'33		superior conj	2296 Jan 17 08:35	26°♄41'02	-1°58'51
	2295 Mar 03 00:25	0°♄		minimum elong	2296 Jan 17 03:46	26°♄21'13	1°58'36
evening max el	2295 Mar 05 08:25	2°♄36'56	18°09'10		2296 Jan 19 08:47	0°♄	
retrograde	2295 Mar 12 02:40	6°♄02'46		evening rise	2296 Jan 30 03:55	18°♄21'31	
evening set	2295 Mar 14 17:43	5°♄32'07			2296 Feb 05 21:55	0°♄	
inferior conj	2295 Mar 21 11:12	0°♄39'08	3°23'42	asc. node	2296 Feb 13 06:06	11°♄30'09	
minimum elong	2295 Mar 21 13:42	0°♄33'17	3°23'21	evening max el	2296 Feb 16 20:51	15°♄49'25	18°10'13
	2295 Mar 22 03:51	30°♄♄		retrograde	2296 Feb 23 07:51	19°♄13'42	
min. Earth dist.	2295 Mar 24 17:40	27°♄37'07	0.60627 AU	evening set	2296 Feb 26 04:17	18°♄32'24	
morning rise	2295 Mar 28 07:40	24°♄50'06		inferior conj	2296 Mar 03 09:20	13°♄19'07	3°41'23
direct	2295 Apr 04 00:18	22°♄39'41		minimum elong	2296 Mar 03 09:53	13°♄17'41	3°41'21
desc. node	2295 Apr 05 11:29	22°♄45'41		min. Earth dist.	2296 Mar 06 03:27	10°♄24'33	0.62716 AU
	2295 Apr 17 17:10	0°♄		morning rise	2296 Mar 09 14:22	7°♄17'46	
morning max el	2295 Apr 18 06:34	0°♄32'41	27°39'57	direct	2296 Mar 16 12:58	4°♄40'25	
	2295 May 09 12:09	0°♄		desc. node	2296 Mar 22 08:32	6°♄15'38	
morning set	2295 May 20 11:34	20°♄53'14		morning max el	2296 Mar 30 12:25	12°♄36'26	27°48'41
	2295 May 24 18:51	0°♄			2296 Apr 13 09:08	0°♄	
asc. node	2295 May 25 08:20	1°♄12'58			2296 Apr 30 22:07	0°♄	
max. Earth dist.	2295 May 26 16:35	4°♄08'39	1.32231 AU	morning set	2296 May 03 12:25	5°♄09'05	
				max. Earth dist.	2296 May 09 00:02	16°♄34'41	1.32683 AU
superior conj	2295 May 27 17:27	6°♄24'49	0°24'55				
minimum elong	2295 May 27 16:20	6°♄18'45	0°24'40	superior conj	2296 May 11 02:25	21°♄05'53	-0°01'19
evening rise	2295 Jun 03 14:03	21°♄19'59		minimum elong	2296 May 11 02:28	21°♄06'12	0°01'18
	2295 Jun 07 19:03	0°♄		behind sun begin	2296 May 10 21:17	20°♄38'06	
	2295 Jun 26 15:41	0°♄		behind sun end	2296 May 11 07:40	21°♄34'19	
evening max el	2295 Jun 30 12:11	4°♄04'58	25°20'31	asc. node	2296 May 11 05:23	21°♄21'59	
desc. node	2295 Jul 02 10:44	5°♄49'55			2296 May 15 04:47	0°♄	
retrograde	2295 Jul 14 12:22	11°♄12'20		evening rise	2296 May 18 01:52	6°♄10'46	
evening set	2295 Jul 20 04:39	9°♄57'28			2296 May 30 16:48	0°♄	
min. Earth dist.	2295 Jul 25 00:09	7°♄14'57	0.57874 AU	evening max el	2296 Jun 11 02:11	14°♄41'27	23°48'45
inferior conj	2295 Jul 28 03:05	5°♄05'35	-5°00'11	desc. node	2296 Jun 18 07:46	19°♄59'09	
minimum elong	2295 Jul 28 02:58	5°♄05'48	5°00'12	retrograde	2296 Jun 24 19:32	21°♄34'37	
morning rise	2295 Aug 05 03:46	0°♄50'18		evening set	2296 Jun 29 01:11	20°♄55'09	
direct	2295 Aug 07 16:45	0°♄30'43		min. Earth dist.	2296 Jul 05 12:41	17°♄50'35	0.56161 AU
morning max el	2295 Aug 16 08:05	4°♄35'05	18°55'59	inferior conj	2296 Jul 07 19:52	16°♄26'52	-4°37'12
asc. node	2295 Aug 21 07:32	10°♄30'35		minimum elong	2296 Jul 07 14:17	16°♄35'24	4°36'23
	2295 Sep 01 09:07	0°♄		morning rise	2296 Jul 16 05:59	12°♄29'26	
morning set	2295 Sep 01 22:56	1°♄07'52		direct	2296 Jul 18 23:44	12°♄10'19	
				morning max el	2296 Jul 29 01:29	16°♄50'36	19°58'38
superior conj	2295 Sep 10 09:28	17°♄38'21	1°40'37	asc. node	2296 Aug 07 04:35	28°♄50'42	
minimum elong	2295 Sep 10 11:29	17°♄47'58	1°40'31		2296 Aug 07 21:02	0°♄	

morning set	2296 Aug 16 02:41	15°♎39'08		asc. node	2297 Jul 25 01:38	17°♏47'43	
	2296 Aug 23 03:55	0°♎		morning set	2297 Jul 31 11:03	0°♎24'56	
					2297 Jul 31 06:14	0°♎	
superior conj	2296 Aug 23 21:26	1°♎27'46	1°45'30				
minimum elong	2296 Aug 23 21:38	1°♎28'48	1°45'30	superior conj	2297 Aug 07 19:28	15°♎48'02	1°42'41
max. Earth dist.	2296 Aug 29 11:17	12°♎20'06	1.36958 AU	minimum elong	2297 Aug 07 18:16	15°♎41'50	1°42'38
evening rise	2296 Sep 02 07:19	19°♎26'16		max. Earth dist.	2297 Aug 11 22:25	24°♎12'46	1.35219 AU
	2296 Sep 08 08:28	0°♎			2297 Aug 14 21:02	0°♎	
desc. node	2296 Sep 14 07:04	9°♎39'19		evening rise	2297 Aug 16 05:25	2°♎35'03	
	2296 Sep 28 12:24	0°♎		desc. node	2297 Sep 01 04:05	29°♎48'56	
evening max el	2296 Oct 08 02:18	10°♎58'13	25°40'58		2297 Sep 01 07:00	0°♎	
retrograde	2296 Oct 20 08:46	17°♎59'22		evening max el	2297 Sep 20 14:31	24°♎35'55	26°39'28
evening set	2296 Oct 26 09:42	15°♎28'12			2297 Sep 27 12:21	0°♎	
min. Earth dist.	2296 Oct 30 18:04	10°♎42'53	0.66954 AU	retrograde	2297 Oct 03 13:36	1°♎50'04	
inferior conj	2296 Oct 31 23:54	9°♎07'51	-0°44'37		2297 Oct 09 00:47	30°♎♎	
minimum elong	2296 Nov 01 01:04	9°♎04'09	0°44'07	evening set	2297 Oct 10 03:51	29°♎08'53	
asc. node	2296 Nov 03 03:48	6°♎28'13		min. Earth dist.	2297 Oct 14 05:00	25°♎00'02	0.66000 AU
morning rise	2296 Nov 06 16:42	3°♎13'10		inferior conj	2297 Oct 15 22:36	22°♎56'21	-1°43'09
direct	2296 Nov 09 23:43	2°♎10'41		minimum elong	2297 Oct 16 01:22	22°♎48'05	1°42'01
morning max el	2296 Nov 17 00:23	6°♎06'53	19°12'00	asc. node	2297 Oct 21 00:50	17°♎48'01	
	2296 Dec 04 03:40	0°♎		morning rise	2297 Oct 21 23:30	17°♎12'56	
morning set	2296 Dec 10 05:45	9°♎26'37		direct	2297 Oct 24 21:23	16°♎25'33	
desc. node	2296 Dec 11 06:21	11°♎02'23		morning max el	2297 Oct 31 12:17	20°♎02'47	18°28'00
	2296 Dec 23 09:18	0°♎			2297 Nov 08 04:15	0°♎	
max. Earth dist.	2296 Dec 24 05:28	1°♎19'29	1.44810 AU	morning set	2297 Nov 20 09:26	19°♎18'34	
					2297 Nov 27 01:57	0°♎	
superior conj	2296 Dec 26 23:21	5°♎39'56	-1°33'27	desc. node	2297 Nov 28 03:21	1°♎40'49	
minimum elong	2296 Dec 26 14:32	5°♎05'00	1°32'37				
evening rise	2297 Jan 10 15:01	29°♎21'37		superior conj	2297 Dec 06 00:53	14°♎08'20	-0°51'22
	2297 Jan 11 00:20	0°♎		minimum elong	2297 Dec 05 18:22	13°♎42'46	0°50'32
asc. node	2297 Jan 30 03:07	28°♎56'46		max. Earth dist.	2297 Dec 07 00:09	15°♎39'40	1.45169 AU
evening max el	2297 Jan 30 09:03	29°♎12'02	18°29'57		2297 Dec 16 03:22	0°♎	
	2297 Jan 31 04:53	0°♎		evening rise	2297 Dec 22 02:43	9°♎24'50	
retrograde	2297 Feb 05 22:03	2°♎47'37		greatest brilliancy	2297 Dec 31 20:32	24°♎45'45	-0.8m
evening set	2297 Feb 08 23:58	1°♎54'52			2298 Jan 04 06:20	0°♎	
	2297 Feb 11 12:14	30°♎♎		evening max el	2298 Jan 13 18:35	12°♎39'32	19°07'18
inferior conj	2297 Feb 14 20:06	26°♎22'45	3°39'02	asc. node	2298 Jan 17 00:08	15°♎23'07	
minimum elong	2297 Feb 14 19:00	26°♎26'00	3°38'56	retrograde	2298 Jan 20 17:30	16°♎37'14	
min. Earth dist.	2297 Feb 16 22:46	23°♎54'05	0.64521 AU	evening set	2298 Jan 24 01:47	15°♎32'05	
morning rise	2297 Feb 20 13:29	20°♎14'29		inferior conj	2298 Jan 29 15:54	9°♎43'29	3°21'53
direct	2297 Feb 27 09:07	17°♎24'10		minimum elong	2298 Jan 29 13:46	9°♎50'18	3°21'30
desc. node	2297 Mar 09 05:34	21°♎53'48		min. Earth dist.	2298 Jan 31 03:17	7°♎51'06	0.65943 AU
morning max el	2297 Mar 12 21:38	25°♎15'08	27°21'46	morning rise	2298 Feb 04 01:27	3°♎31'29	
	2297 Mar 17 05:59	0°♎		direct	2298 Feb 10 11:47	0°♎41'59	
	2297 Apr 06 20:26	0°♎		morning max el	2298 Feb 23 07:30	8°♎16'39	26°25'16
morning set	2297 Apr 17 04:56	18°♎56'47		desc. node	2298 Feb 24 02:36	9°♎05'35	
max. Earth dist.	2297 Apr 21 23:36	28°♎33'31	1.33565 AU		2298 Mar 12 07:04	0°♎	
	2297 Apr 22 16:19	0°♎			2298 Mar 30 06:42	0°♎	
superior conj	2297 Apr 25 07:12	5°♎30'01	-0°29'04	morning set	2298 Mar 31 09:28	2°♎04'55	
minimum elong	2297 Apr 25 08:40	5°♎37'46	0°28'45	max. Earth dist.	2298 Apr 04 12:05	9°♎59'16	1.34906 AU
asc. node	2297 Apr 28 02:25	11°♎28'05					
evening rise	2297 May 02 13:03	20°♎55'20		superior conj	2298 Apr 09 05:29	19°♎29'52	-0°57'10
	2297 May 06 23:50	0°♎		minimum elong	2298 Apr 09 08:24	19°♎44'49	0°56'38
evening max el	2297 May 23 17:57	25°♎11'14	22°12'50		2298 Apr 14 06:49	0°♎	
	2297 May 30 07:04	0°♎		asc. node	2298 Apr 14 23:27	1°♎26'47	
desc. node	2297 Jun 05 04:47	1°♎32'30		evening rise	2298 Apr 16 21:39	5°♎26'36	
retrograde	2297 Jun 05 14:37	1°♎32'53			2298 Apr 30 14:55	0°♎	
evening set	2297 Jun 08 11:25	1°♎14'41		evening max el	2298 May 05 18:35	6°♎03'56	20°46'14
	2297 Jun 12 06:55	30°♎♎		retrograde	2298 May 17 03:45	11°♎36'30	
min. Earth dist.	2297 Jun 16 23:58	27°♎35'12	0.55101 AU	evening set	2298 May 19 06:29	11°♎25'46	
inferior conj	2297 Jun 17 19:44	27°♎07'24	-3°26'02	desc. node	2298 May 23 01:50	10°♎17'48	
minimum elong	2297 Jun 17 11:44	27°♎18'39	3°23'47	inferior conj	2298 May 28 13:21	7°♎28'01	-1°35'39
morning rise	2297 Jun 26 13:54	23°♎15'34		minimum elong	2298 May 28 08:50	7°♎34'27	1°34'02
direct	2297 Jun 29 14:27	22°♎55'05		min. Earth dist.	2298 May 29 12:18	6°♎55'14	0.54947 AU
morning max el	2297 Jul 11 07:25	28°♎22'40	21°21'34	morning rise	2298 Jun 06 10:43	3°♎21'46	
	2297 Jul 12 22:49	0°♎		direct	2298 Jun 09 23:49	2°♎54'42	
				morning max el	2298 Jun 23 03:26	9°♎14'04	22°59'28

	2298 Jul 08 03:27	0°☿		direct	2299 May 21 17:43	12°♊39'22	
asc. node	2298 Jul 11 22:41	7°☿11'28		morning max el	2299 Jun 04 18:08	19°♊42'06	24°41'26
morning set	2298 Jul 15 21:59	15°☿18'12			2299 Jun 13 11:12	0°♊	
	2298 Jul 22 19:00	0°♊		asc. node	2299 Jun 28 19:44	26°♊54'56	
				morning set	2299 Jun 30 09:49	0°☿13'55	
superior conj	2298 Jul 23 00:15	0°♊28'04	1°33'38		2299 Jun 30 07:10	0°☿	
minimum elong	2298 Jul 22 22:12	0°♊17'04	1°33'26				
max. Earth dist.	2298 Jul 25 18:20	6°♊17'36	1.33849 AU	superior conj	2299 Jul 07 09:20	15°☿19'59	1°19'26
evening rise	2298 Jul 30 17:17	16°♊23'43		minimum elong	2299 Jul 07 06:57	15°☿06'58	1°19'05
	2298 Aug 06 23:00	0°♊		max. Earth dist.	2299 Jul 08 22:43	18°☿42'46	1.32890 AU
desc. node	2298 Aug 19 01:07	19°♊33'13			2299 Jul 14 07:00	0°♊	
	2298 Aug 26 19:22	0°♊		evening rise	2299 Jul 14 15:08	0°♊41'34	
evening max el	2298 Sep 03 02:26	8°♊01'23	27°16'29		2299 Jul 30 22:39	0°♊	
retrograde	2298 Sep 16 12:58	15°♊20'06		desc. node	2299 Aug 05 22:10	8°♊41'32	
evening set	2298 Sep 23 13:22	12°♊36'51		evening max el	2299 Aug 16 12:31	21°♊02'44	27°25'25
min. Earth dist.	2298 Sep 27 08:06	9°♊03'44	0.64681 AU	retrograde	2299 Aug 30 06:06	28°♊19'59	
inferior conj	2298 Sep 29 14:11	6°♊36'25	-2°41'50	evening set	2299 Sep 06 10:58	25°♊46'05	
minimum elong	2298 Sep 29 18:31	6°♊24'38	2°40'17	min. Earth dist.	2299 Sep 10 01:35	22°♊44'00	0.63020 AU
morning rise	2298 Oct 06 00:39	1°♊07'18		inferior conj	2299 Sep 12 19:57	20°♊01'40	-3°37'30
asc. node	2298 Oct 07 21:52	0°♊34'09		minimum elong	2299 Sep 13 01:18	19°♊48'34	3°35'57
direct	2298 Oct 08 15:46	0°♊31'13		morning rise	2299 Sep 19 17:01	14°♊50'02	
morning max el	2298 Oct 15 03:49	3°♊58'52	18°00'51	direct	2299 Sep 22 04:03	14°♊21'45	
	2298 Nov 01 09:33	0°♊		asc. node	2299 Sep 24 18:56	14°♊54'37	
morning set	2298 Nov 01 18:13	0°♊36'20		morning max el	2299 Sep 28 20:00	17°♊47'53	17°51'21
					2299 Oct 07 14:21	0°♊	
superior conj	2298 Nov 15 10:37	23°♊06'35	-0°02'54	morning set	2299 Oct 15 03:07	13°♊03'36	
minimum elong	2298 Nov 15 10:16	23°♊05'13	0°02'51		2299 Oct 24 21:33	0°♊	
behind sun begin	2298 Nov 14 23:53	22°♊23'33					
behind sun end	2298 Nov 15 20:39	23°♊46'48		superior conj	2299 Oct 26 20:07	3°♊15'52	0°40'35
desc. node	2298 Nov 15 00:23	22°♊25'32		minimum elong	2299 Oct 26 23:54	3°♊31'37	0°40'04
	2298 Nov 19 18:31	0°♊		desc. node	2299 Nov 01 21:25	13°♊12'52	
max. Earth dist.	2298 Nov 19 18:54	0°♊01'29	1.44787 AU	max. Earth dist.	2299 Nov 02 11:00	14°♊07'38	1.43722 AU
evening rise	2298 Dec 01 18:40	18°♊43'05		evening rise	2299 Nov 11 03:08	27°♊48'11	
	2298 Dec 09 03:11	0°♊			2299 Nov 12 13:19	0°♊	
greatest brilliancy	2298 Dec 15 21:44	10°♊11'24	-0.6m		2299 Dec 03 00:22	0°♊	
evening max el	2298 Dec 27 23:42	26°♊09'25	20°00'35	evening max el	2299 Dec 10 23:23	9°♊40'18	21°07'05
	2299 Jan 01 23:13	0°♊		retrograde	2299 Dec 19 12:55	14°♊45'01	
asc. node	2299 Jan 03 21:10	0°♊34'35		asc. node	2299 Dec 21 18:12	14°♊17'40	
retrograde	2299 Jan 04 15:14	0°♊37'44		evening set	2299 Dec 23 14:49	13°♊11'03	
	2299 Jan 07 04:23	30°♊		inferior conj	2299 Dec 28 23:31	6°♊58'02	2°16'26
evening set	2299 Jan 08 07:23	29°♊18'57		minimum elong	2299 Dec 28 21:02	7°♊06'37	2°15'38
inferior conj	2299 Jan 13 17:51	23°♊16'35	2°53'32	min. Earth dist.	2299 Dec 29 08:34	6°♊26'51	0.67592 AU
minimum elong	2299 Jan 13 15:16	23°♊25'15	2°52'53	morning rise	2300 Jan 03 03:02	0°♊45'04	
min. Earth dist.	2299 Jan 14 15:19	22°♊04'41	0.66961 AU		2300 Jan 04 01:16	30°♊	
morning rise	2299 Jan 18 22:55	17°♊03'10		direct	2300 Jan 08 09:43	28°♊26'34	
direct	2299 Jan 24 20:18	14°♊25'30			2300 Jan 13 05:56	0°♊	
morning max el	2299 Feb 05 16:22	21°♊29'23	25°08'17	morning max el	2300 Jan 19 00:50	4°♊46'36	23°41'00
desc. node	2299 Feb 10 23:36	27°♊24'07		desc. node	2300 Jan 28 20:38	16°♊29'42	
	2299 Feb 13 02:03	0°♊			2300 Feb 07 10:30	0°♊	
	2299 Mar 05 12:52	0°♊		morning set	2300 Feb 23 09:57	25°♊24'10	
morning set	2299 Mar 13 21:12	14°♊19'55			2300 Feb 26 02:00	0°♊	
max. Earth dist.	2299 Mar 17 13:11	21°♊01'48	1.36681 AU	max. Earth dist.	2300 Feb 27 08:04	2°♊11'48	1.38768 AU
	2299 Mar 22 06:08	0°♊					
superior conj	2299 Mar 23 18:26	2°♊57'55	-1°23'50	superior conj	2300 Mar 06 18:15	15°♊43'45	-1°46'34
minimum elong	2299 Mar 23 22:30	3°♊17'55	1°23'15	minimum elong	2300 Mar 06 22:32	16°♊03'54	1°46'10
evening rise	2299 Apr 01 01:27	19°♊38'15			2300 Mar 14 04:15	0°♊	
asc. node	2299 Apr 01 20:30	21°♊13'53		evening rise	2300 Mar 15 21:45	3°♊22'22	
	2299 Apr 06 08:32	0°♊		asc. node	2300 Mar 19 17:32	10°♊43'44	
evening max el	2299 Apr 18 07:12	17°♊36'13	19°36'41		2300 Apr 01 11:54	0°♊	
retrograde	2299 Apr 27 22:38	22°♊15'49		evening max el	2300 Apr 01 06:28	29°♊47'03	18°46'53
evening set	2299 Apr 29 23:15	22°♊04'24		retrograde	2300 Apr 09 09:52	3°♊45'02	
inferior conj	2299 May 08 15:29	18°♊00'45	0°22'40	evening set	2300 Apr 11 15:43	3°♊28'07	
minimum elong	2299 May 08 16:27	17°♊59'12	0°22'18		2300 Apr 18 07:25	30°♊	
desc. node	2299 May 09 22:50	17°♊10'59		inferior conj	2300 Apr 19 12:19	29°♊07'35	1°58'55
min. Earth dist.	2299 May 11 02:33	16°♊27'37	0.55758 AU	minimum elong	2300 Apr 19 16:07	29°♊00'36	1°57'47
morning rise	2299 May 17 07:00	13°♊23'43		min. Earth dist.	2300 Apr 22 19:17	26°♊43'36	0.57348 AU
				desc. node	2300 Apr 26 19:52	24°♊17'04	

morning rise	2300 Apr 27 13:23	23° Υ 56'42		desc. node	2301 Apr 13 16:54	3° Υ 31'15	
direct	2300 May 03 01:24	22° Υ 42'51		direct	2301 Apr 14 21:54	3° Υ 27'18	
	2300 May 17 03:56	0° \mathcal{B}		morning max el	2301 Apr 29 06:13	11° Υ 13'54	27°18'01
morning max el	2300 May 17 09:30	0° \mathcal{B} 13'26	26°12'32		2301 May 13 20:57	0° \mathcal{B}	
	2300 Jun 07 06:08	0° Π		morning set	2301 May 30 05:38	29° \mathcal{B} 51'14	
morning set	2300 Jun 14 20:56	15° Π 06'57			2301 May 30 07:19	0° Π	
asc. node	2300 Jun 15 16:49	16° Π 52'13		asc. node	2301 Jun 02 13:52	6° Π 57'45	
superior conj	2300 Jun 21 20:39	0° \mathcal{E} 17'08	1°00'58	superior conj	2301 Jun 06 08:24	15° Π 12'47	0°38'56
minimum elong	2300 Jun 21 18:26	0° \mathcal{E} 04'52	1°00'33	minimum elong	2301 Jun 06 06:46	15° Π 03'48	0°38'36
	2300 Jun 21 17:33	0° \mathcal{E}		max. Earth dist.	2301 Jun 05 21:16	14° Π 11'33	1.32158 AU
max. Earth dist.	2300 Jun 22 08:56	1° \mathcal{E} 24'34	1.32330 AU	evening rise	2301 Jun 13 04:57	0° \mathcal{E} 07'30	
evening rise	2300 Jun 28 19:52	15° \mathcal{E} 19'06			2301 Jun 13 03:32	0° \mathcal{E}	
	2300 Jul 06 06:30	0° Ω			2301 Jun 29 13:21	0° Ω	
desc. node	2300 Jul 23 19:11	26° Ω 59'07		desc. node	2301 Jul 10 16:13	14° Ω 04'20	
	2300 Jul 26 09:31	0° \mathcal{N}		evening max el	2301 Jul 11 17:08	15° Ω 05'21	26°05'24
evening max el	2300 Jul 29 18:17	3° \mathcal{N} 27'36	27°01'47	retrograde	2301 Jul 25 16:53	22° Ω 15'23	
retrograde	2300 Aug 12 15:56	10° \mathcal{N} 41'01		evening set	2301 Aug 01 01:08	20° Ω 37'47	
evening set	2300 Aug 19 16:30	8° \mathcal{N} 29'30		min. Earth dist.	2301 Aug 05 05:42	18° Ω 01'28	0.59026 AU
min. Earth dist.	2300 Aug 23 08:34	5° \mathcal{N} 48'20	0.61087 AU	inferior conj	2301 Aug 08 12:43	15° Ω 33'43	-4°55'11
inferior conj	2300 Aug 26 12:42	3° \mathcal{N} 04'22	-4°24'48	minimum elong	2301 Aug 08 15:16	15° Ω 28'56	4°55'01
minimum elong	2300 Aug 26 17:46	2° \mathcal{N} 53'22	4°23'49	morning rise	2301 Aug 16 07:35	11° Ω 05'45	
	2300 Aug 30 09:25	30° \mathcal{R} Ω		direct	2301 Aug 18 18:55	10° Ω 45'07	
morning rise	2300 Sep 02 20:46	28° Ω 13'23		morning max el	2301 Aug 26 18:04	14° Ω 34'10	18°29'46
direct	2300 Sep 05 06:36	27° Ω 49'57		asc. node	2301 Aug 29 13:03	17° Ω 39'10	
	2300 Sep 10 19:58	0° \mathcal{N}			2301 Sep 06 10:03	0° \mathcal{N}	
asc. node	2300 Sep 11 16:00	0° \mathcal{N} 41'25		morning set	2301 Sep 11 21:05	10° \mathcal{N} 16'38	
morning max el	2300 Sep 12 09:49	1° \mathcal{N} 22'46	18°00'34	superior conj	2301 Sep 20 19:47	27° \mathcal{N} 20'06	1°33'38
morning set	2300 Sep 28 05:50	26° \mathcal{N} 22'14		minimum elong	2301 Sep 20 22:52	27° \mathcal{N} 34'26	1°33'24
	2300 Sep 30 05:00	0° \mathcal{A}			2301 Sep 22 06:25	0° \mathcal{A}	
superior conj	2300 Oct 08 08:34	14° \mathcal{A} 44'31	1°13'03	max. Earth dist.	2301 Sep 28 05:23	10° \mathcal{A} 38'11	1.40139 AU
minimum elong	2300 Oct 08 13:00	15° \mathcal{A} 03'58	1°12'32	evening rise	2301 Oct 02 12:22	17° \mathcal{A} 56'17	
max. Earth dist.	2300 Oct 15 22:48	27° \mathcal{A} 44'08	1.42106 AU	desc. node	2301 Oct 06 15:31	24° \mathcal{A} 42'04	
	2300 Oct 17 07:40	0° \mathcal{M}			2301 Oct 09 23:50	0° \mathcal{M}	
desc. node	2300 Oct 19 18:29	3° \mathcal{M} 59'45			2301 Oct 31 06:16	0° \mathcal{A}	
evening rise	2300 Oct 21 21:12	7° \mathcal{M} 23'09		evening max el	2301 Nov 06 07:58	6° \mathcal{A} 48'12	23°42'48
	2300 Nov 05 18:38	0° \mathcal{A}		retrograde	2301 Nov 17 01:47	13° \mathcal{A} 08'27	
evening max el	2300 Nov 23 17:46	23° \mathcal{A} 13'08	22°22'52	evening set	2301 Nov 22 04:30	11° \mathcal{A} 00'56	
retrograde	2300 Dec 03 08:52	28° \mathcal{A} 56'33		asc. node	2301 Nov 25 12:16	7° \mathcal{A} 24'09	
evening set	2300 Dec 07 22:24	27° \mathcal{A} 06'03		min. Earth dist.	2301 Nov 27 01:15	5° \mathcal{A} 21'09	0.67766 AU
asc. node	2300 Dec 08 15:14	26° \mathcal{A} 29'01		inferior conj	2301 Nov 27 14:11	4° \mathcal{A} 37'05	0°42'31
inferior conj	2300 Dec 13 06:55	20° \mathcal{A} 45'43	1°32'20	minimum elong	2301 Nov 27 13:12	4° \mathcal{A} 40'28	0°42'06
minimum elong	2300 Dec 13 04:58	20° \mathcal{A} 52'27	1°31'36		2301 Dec 01 06:47	30° \mathcal{R} \mathcal{M}	
min. Earth dist.	2300 Dec 13 04:40	20° \mathcal{A} 53'30	0.67855 AU	morning rise	2301 Dec 02 21:53	28° \mathcal{M} 30'50	
morning rise	2300 Dec 18 11:24	14° \mathcal{A} 35'07		direct	2301 Dec 06 23:30	26° \mathcal{M} 57'43	
direct	2300 Dec 23 03:09	12° \mathcal{A} 39'15			2301 Dec 13 09:00	0° \mathcal{A}	
morning max el	2301 Jan 01 12:12	18° \mathcal{A} 10'33	22°13'15	morning max el	2301 Dec 15 05:53	1° \mathcal{A} 44'43	20°52'49
	2301 Jan 11 07:00	0° \mathcal{B}		desc. node	2302 Jan 02 14:45	26° \mathcal{A} 13'19	
desc. node	2301 Jan 15 17:41	6° \mathcal{B} 09'18			2302 Jan 05 03:25	0° \mathcal{B}	
	2301 Jan 31 14:04	0° \approx		morning set	2302 Jan 14 00:09	13° \mathcal{B} 34'48	
morning set	2301 Feb 03 18:20	5° \approx 05'28		max. Earth dist.	2302 Jan 22 09:43	26° \mathcal{B} 56'52	1.42833 AU
max. Earth dist.	2301 Feb 09 05:21	14° \approx 06'09	1.40920 AU		2302 Jan 24 06:33	0° \approx	
superior conj	2301 Feb 17 00:15	27° \approx 35'58	-2°01'46	superior conj	2302 Jan 29 07:11	8° \approx 22'32	-2°04'42
minimum elong	2301 Feb 17 02:55	27° \approx 47'51	2°01'39	minimum elong	2302 Jan 29 05:38	8° \approx 15'57	2°04'40
	2301 Feb 18 08:24	0° \mathcal{H}		evening rise	2302 Feb 10 02:17	28° \approx 57'10	
evening rise	2301 Feb 27 07:20	16° \mathcal{H} 31'27			2302 Feb 10 16:23	0° \mathcal{H}	
asc. node	2301 Mar 06 14:35	29° \mathcal{H} 50'24		asc. node	2302 Feb 21 11:36	18° \mathcal{H} 26'29	
	2301 Mar 06 16:48	0° Υ		evening max el	2302 Feb 27 00:37	25° \mathcal{H} 32'37	18°07'12
evening max el	2301 Mar 15 13:22	12° Υ 28'43	18°17'11	retrograde	2302 Mar 05 14:39	28° \mathcal{H} 56'25	
retrograde	2301 Mar 22 16:17	16° Υ 01'47		evening set	2302 Mar 08 07:58	28° \mathcal{H} 21'24	
evening set	2301 Mar 25 04:12	15° Υ 36'34		inferior conj	2302 Mar 14 19:40	23° \mathcal{H} 19'22	3°34'04
inferior conj	2301 Apr 01 06:31	10° Υ 55'13	3°01'49	minimum elong	2302 Mar 14 21:20	23° \mathcal{H} 15'14	3°33'54
minimum elong	2301 Apr 01 09:59	10° Υ 47'45	3°01'08	min. Earth dist.	2302 Mar 17 21:24	20° \mathcal{H} 17'55	0.61535 AU
min. Earth dist.	2301 Apr 04 16:35	8° Υ 00'10	0.59389 AU	morning rise	2302 Mar 21 09:07	17° \mathcal{H} 24'00	
morning rise	2301 Apr 08 13:17	5° Υ 17'15		direct	2302 Mar 28 05:17	15° \mathcal{H} 00'56	

desc. node	2302 Mar 31 13:55	15° H 32'38		evening set	2303 Feb 19 22:48	11° H 32'15	
morning max el	2302 Apr 11 09:24	22° H 56'11	27°48'21	inferior conj	2303 Feb 25 23:40	6° H 10'50	3°42'29
	2302 Apr 17 16:08	0° Y		minimum elong	2303 Feb 25 23:27	6° H 11'27	3°42'28
	2302 May 07 00:55	0° B		min. Earth dist.	2303 Feb 28 11:26	3° H 25'12	0.63520 AU
morning set	2302 May 14 10:02	14° B 20'26		morning rise	2303 Mar 03 23:14	0° H 05'46	
asc. node	2302 May 20 10:54	27° B 07'09			2303 Mar 04 02:09	30° R \approx	
max. Earth dist.	2302 May 20 07:44	26° B 49'58	1.32374 AU	direct	2303 Mar 10 21:25	27° \approx 20'54	
				desc. node	2303 Mar 18 10:57	0° H 01'34	
superior conj	2302 May 21 18:54	0° II 01'24	0°14'03		2303 Mar 18 09:59	0° H	
minimum elong	2302 May 21 18:15	29° B 57'52	0°13'55	morning max el	2303 Mar 24 17:09	5° H 16'56	27°41'19
behind sun begin	2302 May 21 15:47	29° B 44'22			2303 Apr 12 10:08	0° Y	
behind sun end	2302 May 21 20:43	0° II 11'22		morning set	2303 Apr 28 07:43	28° Y 25'58	
	2302 May 21 18:39	0° II			2303 Apr 29 02:30	0° B	
evening rise	2302 May 28 16:20	14° II 59'44		max. Earth dist.	2303 May 03 12:13	9° B 05'28	1.33002 AU
	2302 Jun 05 04:11	0° B					
evening max el	2302 Jun 23 09:00	25° B 58'33	24°42'53	superior conj	2303 May 06 02:20	14° B 36'16	-0°12'58
desc. node	2302 Jun 27 13:12	29° B 28'07		minimum elong	2303 May 06 02:58	14° B 39'41	0°12'49
	2302 Jun 28 07:53	0° B		behind sun begin	2303 May 05 23:48	14° B 22'37	
retrograde	2302 Jul 07 07:26	3° B 02'05		behind sun end	2303 May 06 06:09	14° B 56'45	
evening set	2302 Jul 12 09:57	2° B 03'08		asc. node	2303 May 07 07:56	17° B 15'34	
	2302 Jul 16 13:35	30° R B		evening rise	2303 May 13 04:05	29° B 48'36	
min. Earth dist.	2302 Jul 17 20:13	29° B 13'01	0.57089 AU		2303 May 13 06:14	0° II	
inferior conj	2302 Jul 20 17:04	27° B 21'00	-4°55'57		2303 May 30 06:58	0° B	
minimum elong	2302 Jul 20 14:36	27° B 25'02	4°55'47	evening max el	2303 Jun 04 22:40	6° B 28'00	23°07'30
morning rise	2302 Jul 28 21:56	23° B 14'42		desc. node	2303 Jun 14 10:12	12° B 34'45	
direct	2302 Jul 31 12:46	22° B 55'31		retrograde	2303 Jun 18 09:41	13° B 10'49	
morning max el	2302 Aug 09 17:42	27° B 13'08	19°20'05	evening set	2303 Jun 21 23:54	12° B 42'32	
	2302 Aug 12 08:32	0° B		min. Earth dist.	2303 Jun 29 08:06	9° B 24'26	0.55610 AU
asc. node	2302 Aug 16 10:07	5° B 33'07		inferior conj	2303 Jul 01 01:48	8° B 23'37	-4°13'00
morning set	2302 Aug 26 21:06	24° B 36'35		minimum elong	2303 Jun 30 18:31	8° B 34'16	4°11'28
	2302 Aug 29 13:43	0° B		morning rise	2303 Jul 09 15:37	4° B 30'28	
				direct	2303 Jul 12 11:35	4° B 11'17	
superior conj	2302 Sep 04 00:09	10° B 46'56	1°43'44	morning max el	2303 Jul 23 06:20	9° B 11'01	20°31'38
minimum elong	2302 Sep 04 01:21	10° B 52'51	1°43'42	asc. node	2303 Aug 03 07:10	24° B 10'16	
max. Earth dist.	2302 Sep 10 08:58	22° B 50'12	1.38079 AU		2303 Aug 06 11:31	0° B	
evening rise	2302 Sep 14 03:27	29° B 36'04		morning set	2303 Aug 11 03:02	9° B 14'38	
	2302 Sep 14 08:54	0° B					
desc. node	2302 Sep 23 12:32	15° B 15'43		superior conj	2303 Aug 18 16:50	24° B 51'02	1°45'09
	2302 Oct 03 07:48	0° B		minimum elong	2303 Aug 18 16:23	24° B 48'44	1°45'09
evening max el	2302 Oct 19 20:04	20° B 26'20	25°00'21		2303 Aug 21 06:15	0° B	
retrograde	2302 Oct 31 14:39	27° B 16'16		max. Earth dist.	2303 Aug 23 15:35	4° B 41'35	1.36174 AU
evening set	2302 Nov 06 07:25	24° B 52'49		evening rise	2303 Aug 27 15:33	12° B 16'10	
min. Earth dist.	2302 Nov 10 20:01	19° B 47'09	0.67341 AU		2303 Sep 06 20:53	0° B	
inferior conj	2302 Nov 11 19:35	18° B 29'41	-0°11'49	desc. node	2303 Sep 10 09:33	5° B 35'59	
minimum elong	2302 Nov 11 19:53	18° B 28'43	0°11'42		2303 Sep 28 10:03	0° B	
transit middle	2302 Nov 11 19:53	18° B 28'43	0°11'42	evening max el	2303 Oct 02 08:08	4° B 06'35	26°08'08
transit begin	2302 Nov 11 17:58	18° B 35'01		retrograde	2303 Oct 14 22:44	11° B 15'12	
transit end	2302 Nov 11 21:48	18° B 22'25		evening set	2303 Oct 21 05:24	8° B 39'08	
asc. node	2302 Nov 12 09:18	17° B 44'47		min. Earth dist.	2303 Oct 25 10:37	4° B 09'03	0.66581 AU
morning rise	2302 Nov 17 08:31	12° B 30'01		inferior conj	2303 Oct 26 21:20	2° B 21'17	-1°09'17
direct	2302 Nov 20 21:39	11° B 17'27		minimum elong	2303 Oct 26 23:10	2° B 15'35	1°08'31
morning max el	2302 Nov 28 07:20	15° B 29'29	19°44'33		2303 Oct 28 20:13	30° R B	
	2302 Dec 09 11:55	0° B		asc. node	2303 Oct 30 06:21	28° B 28'42	
greatest brilliancy	2302 Dec 11 13:38	3° B 03'11	-0.7m	morning rise	2303 Nov 01 17:21	26° B 30'52	
desc. node	2302 Dec 20 11:47	16° B 34'29		direct	2303 Nov 04 20:07	25° B 35'22	
morning set	2302 Dec 23 20:20	21° B 44'39		morning max el	2303 Nov 11 15:57	29° B 22'45	18°51'16
	2302 Dec 29 03:56	0° B			2303 Nov 12 06:21	0° B	
max. Earth dist.	2303 Jan 04 21:02	10° B 33'58	1.44264 AU		2303 Dec 02 19:56	0° B	
				morning set	2303 Dec 03 08:07	0° B 47'54	
superior conj	2303 Jan 09 11:44	17° B 57'11	-1°50'26	desc. node	2303 Dec 07 08:48	7° B 08'06	
minimum elong	2303 Jan 09 04:42	17° B 28'47	1°49'58	max. Earth dist.	2303 Dec 18 13:40	24° B 43'15	1.45047 AU
	2303 Jan 16 20:12	0° \approx					
evening rise	2303 Jan 23 02:08	10° \approx 30'04		superior conj	2303 Dec 19 18:44	26° B 37'34	-1°17'12
	2303 Feb 03 19:58	0° H		minimum elong	2303 Dec 19 10:04	26° B 03'26	1°16'14
asc. node	2303 Feb 08 08:37	6° H 21'51			2303 Dec 21 22:08	0° B	
evening max el	2303 Feb 10 13:13	8° H 50'07	18°16'22	evening rise	2304 Jan 04 03:17	21° B 05'35	
retrograde	2303 Feb 17 00:13	12° H 18'07			2304 Jan 09 15:21	0° \approx	

evening max el	2304 Jan 25 00:37	22°  15'58	18°43'49	asc. node	2305 Jan 12 02:41	9°  21'31	
asc. node	2304 Jan 26 05:38	23°  25'04		retrograde	2305 Jan 14 13:35	9°  54'20	
retrograde	2304 Jan 31 16:58	25°  59'36		evening set	2305 Jan 18 01:07	8°  43'26	
evening set	2304 Feb 03 21:25	25°  01'50		inferior conj	2305 Jan 23 13:25	2°  48'47	3°11'01
inferior conj	2304 Feb 09 14:42	19°  22'44	3°33'17	minimum elong	2305 Jan 23 11:01	2°  56'36	3°10'32
minimum elong	2304 Feb 09 13:05	19°  27'41	3°33'06	min. Earth dist.	2305 Jan 24 18:41	1°  13'30	0.66430 AU
min. Earth dist.	2304 Feb 11 10:52	17°  08'21	0.65177 AU		2305 Jan 25 17:52	30°  R 	
morning rise	2304 Feb 15 04:19	13°  12'36		morning rise	2305 Jan 28 20:42	26°  Z 	36'14
direct	2304 Feb 21 20:46	10°  20'42		direct	2305 Feb 04 01:59	23°  Z 	50'36
desc. node	2304 Mar 04 07:59	16°  23'25			2305 Feb 15 06:14	0° 	
morning max el	2304 Mar 06 02:47	18°  06'37	27°00'46	morning max el	2305 Feb 16 12:07	1°  13'11	25°54'27
	2304 Mar 16 03:05	0°  X		desc. node	2305 Feb 19 05:01	4°  R 	06'05
	2304 Apr 04 08:17	0°  Y			2305 Mar 10 04:03	0°  X	
morning set	2304 Apr 10 19:39	11°  Y  58'31		morning set	2305 Mar 24 17:43	24°  X 	45'57
max. Earth dist.	2304 Apr 15 07:02	20°  Y  48'55	1.34081 AU		2305 Mar 27 12:48	0°  Y	
				max. Earth dist.	2305 Mar 28 14:26	2°  Y 	02'33 1.35614 AU
superior conj	2304 Apr 19 04:42	28°  Y  51'23	-0°41'01	superior conj	2305 Apr 02 23:27	12°  Y 	39'18 -1°08'46
minimum elong	2304 Apr 19 06:47	29°  Y  02'18	0°40'36	minimum elong	2305 Apr 03 02:55	12°  Y 	56'48 1°08'11
	2304 Apr 19 17:48	0°  B		asc. node	2305 Apr 10 02:00	27°  Y 	13'56
asc. node	2304 Apr 23 04:58	7°  B  19'12		evening rise	2305 Apr 10 21:16	28°  Y 	52'37
evening rise	2304 Apr 26 14:24	14°  B  28'20			2305 Apr 11 10:29	0°  B	
	2304 May 04 12:23	0°  II		evening max el	2305 Apr 28 23:29	28°  B 	14'54 20°14'20
evening max el	2304 May 16 17:43	17°  II  05'22	21°34'16		2305 Apr 30 23:10	0°  II	
retrograde	2304 May 29 00:44	23°  II  06'58		retrograde	2305 May 09 14:30	3°  II 	24'03
evening set	2304 May 31 11:32	22°  II  53'23		evening set	2305 May 11 15:08	3°  II 	13'37
desc. node	2304 May 31 07:13	22°  II  55'17		desc. node	2305 May 18 04:15	0°  II 	42'17
inferior conj	2304 Jun 09 21:20	18°  II  52'31	-2°42'28		2305 May 19 10:15	30°  R 	
minimum elong	2304 Jun 09 14:11	19°  II  02'30	2°40'10	inferior conj	2305 May 20 16:56	29°  B 	15'05 -0°44'23
min. Earth dist.	2304 Jun 09 19:53	18°  II  54'31	0.54921 AU	minimum elong	2305 May 20 14:51	29°  B 	18'10 0°43'37
morning rise	2304 Jun 18 17:40	14°  II  56'43		min. Earth dist.	2305 May 22 08:45	28°  B 	16'23 0.55185 AU
direct	2304 Jun 21 22:43	14°  II  34'11		morning rise	2305 May 29 13:06	24°  B 	57'34
morning max el	2304 Jul 04 07:34	20°  II  24'27	22°01'49	direct	2305 Jun 02 10:40	24°  B 	24'37
	2304 Jul 12 07:20	0°  E			2305 Jun 14 20:36	0°  II	
asc. node	2304 Jul 20 04:13	13°  E  19'50		morning max el	2305 Jun 16 00:30	1°  II 	03'17 23°43'07
morning set	2304 Jul 25 12:43	24°  E  04'17			2305 Jul 05 14:24	0°  E	
	2304 Jul 28 08:14	0°  O		asc. node	2305 Jul 07 01:16	2°  E 	53'29
superior conj	2304 Aug 01 18:04	9°  O  20'44	1°39'32	morning set	2305 Jul 10 00:18	9°  E 	00'14
minimum elong	2304 Aug 01 16:27	9°  O  12'09	1°39'25	superior conj	2305 Jul 17 01:01	24°  E 	07'23 1°28'11
max. Earth dist.	2304 Aug 05 06:22	16°  O  38'04	1.34590 AU	minimum elong	2305 Jul 16 22:45	23°  E 	55'10 1°27'55
evening rise	2304 Aug 09 20:03	25°  O  43'47		max. Earth dist.	2305 Jul 19 06:30	28°  E 	53'49 1.33398 AU
	2304 Aug 12 01:50	0°  np			2305 Jul 19 18:59	0°  O	
desc. node	2304 Aug 27 06:33	25°  np  35'59		evening rise	2305 Jul 24 12:40	9°  O 	47'00
	2304 Aug 30 06:50	0°  u			2305 Aug 04 10:40	0°  np	
evening max el	2304 Sep 13 20:34	17°  u  41'20	26°58'24	desc. node	2305 Aug 14 03:36	15°  np 	07'00
retrograde	2304 Sep 27 01:14	24°  u  57'55			2305 Aug 26 07:53	0°  u	
evening set	2304 Oct 03 20:11	22°  u  15'05		evening max el	2305 Aug 27 08:10	0°  u 	59'08 27°23'59
min. Earth dist.	2304 Oct 07 18:36	18°  u  21'25	0.65478 AU	retrograde	2305 Sep 09 21:46	8°  u 	16'46
inferior conj	2304 Oct 09 17:19	16°  u  07'12	-2°08'13	evening set	2305 Sep 17 01:04	5°  u 	36'06
minimum elong	2304 Oct 09 20:46	15°  u  57'16	2°06'51	min. Earth dist.	2305 Sep 20 17:44	2°  u 	17'04 0.64024 AU
morning rise	2304 Oct 15 22:05	10°  u  29'10			2305 Sep 22 22:22	30°  R  np	
asc. node	2304 Oct 16 03:24	10°  u  22'46		inferior conj	2305 Sep 23 05:07	29°  np 	42'18 -3°06'03
direct	2304 Oct 18 16:49	9°  u  46'57		minimum elong	2305 Sep 23 09:58	29°  np 	29'38 3°04'26
morning max el	2304 Oct 25 05:39	13°  u  19'08	18°14'20	morning rise	2305 Sep 29 19:59	24°  np 	20'09
	2304 Nov 06 02:12	0°  ml		direct	2305 Oct 02 09:10	23°  np 	47'38
morning set	2304 Nov 13 00:29	11°  ml  17'45		asc. node	2305 Oct 03 00:27	23°  np 	49'42
desc. node	2304 Nov 23 05:50	27°  ml  49'36		morning max el	2305 Oct 08 21:49	27°  np 	13'16 17°54'35
	2304 Nov 24 14:33	0°  x 			2305 Oct 11 08:41	0°  u	
superior conj	2304 Nov 27 21:03	5°  x  11'06	-0°30'50	morning set	2305 Oct 25 20:18	23°  u 	07'47
minimum elong	2304 Nov 27 17:05	4°  x  55'25	0°30'17		2305 Oct 29 20:57	0°  ml	
max. Earth dist.	2304 Nov 30 08:51	9°  x  06'43	1.45098 AU	superior conj	2305 Nov 07 15:42	14°  ml 	36'14 0°16'42
	2304 Dec 13 17:34	0°  Z		minimum elong	2305 Nov 07 17:33	14°  ml 	43'45 0°16'26
evening rise	2304 Dec 14 05:35	0°  Z  46'51		desc. node	2305 Nov 10 02:52	18°  ml 	35'53
greatest brilliancy	2304 Dec 26 02:15	19°  Z  08'53	-0.7m	max. Earth dist.	2305 Nov 13 03:21	23°  ml 	25'57 1.44418 AU
	2305 Jan 02 13:53	0°  z			2305 Nov 17 07:11	0°  x 	
evening max el	2305 Jan 07 08:32	5°  z  44'59	19°28'13				

evening rise	2305 Nov 23 16:25	9° ♊ 54'48		evening max el	2306 Dec 04 08:36	2° ♊ 46'10	21°38'25
	2305 Dec 06 23:25	0° ♋		retrograde	2306 Dec 13 08:49	8° ♋ 07'51	
evening max el	2305 Dec 21 11:24	19° ♋ 15'03	20°27'27	asc. node	2306 Dec 16 20:45	7° ♋ 00'41	
retrograde	2305 Dec 29 11:33	23° ♋ 58'07		evening set	2306 Dec 17 15:26	6° ♋ 26'53	
asc. node	2305 Dec 29 23:44	23° ♋ 56'41		inferior conj	2306 Dec 22 23:50	0° ♋ 10'01	1°58'32
evening set	2306 Jan 02 07:44	22° ♋ 32'49		minimum elong	2306 Dec 22 21:31	0° ♋ 18'01	1°57'43
inferior conj	2306 Jan 07 17:12	16° ♋ 25'21	2°38'45	min. Earth dist.	2306 Dec 23 03:55	29° ♊ 55'53	0.67742 AU
minimum elong	2306 Jan 07 14:36	16° ♋ 34'13	2°38'00		2306 Dec 23 02:43	30° ♊	
min. Earth dist.	2306 Jan 08 09:07	15° ♋ 31'14	0.67276 AU	morning rise	2306 Dec 28 03:28	23° ♊ 57'44	
morning rise	2306 Jan 12 21:18	10° ♋ 12'04		direct	2307 Jan 02 03:37	21° ♊ 48'51	
direct	2306 Jan 18 12:29	7° ♋ 42'13		morning max el	2307 Jan 12 06:06	27° ♊ 48'45	23°03'16
morning max el	2306 Jan 29 20:40	14° ♋ 28'12	24°31'53		2307 Jan 14 07:38	0° ♋	
desc. node	2306 Feb 06 02:04	22° ♋ 46'19		desc. node	2307 Jan 23 23:07	12° ♋ 07'55	
	2306 Feb 11 13:01	0° ♌			2307 Feb 05 05:32	0° ♌	
	2306 Mar 03 01:15	0° ♍		morning set	2307 Feb 15 21:40	17° ♌ 02'52	
morning set	2306 Mar 06 20:27	6° ♍ 32'35		max. Earth dist.	2307 Feb 20 07:23	24° ♌ 30'57	1.39685 AU
max. Earth dist.	2306 Mar 10 12:26	13° ♍ 05'32	1.37541 AU		2307 Feb 23 10:37	0° ♍	
superior conj	2306 Mar 17 07:19	25° ♍ 50'28	-1°34'09	superior conj	2307 Feb 28 00:10	8° ♍ 14'46	-1°54'13
minimum elong	2306 Mar 17 11:38	26° ♍ 11'21	1°33'37	minimum elong	2307 Feb 28 04:03	8° ♍ 32'39	1°53'55
	2306 Mar 19 10:30	0° ♎		evening rise	2307 Mar 09 14:29	26° ♍ 24'04	
evening rise	2306 Mar 25 22:16	12° ♎ 53'41			2307 Mar 11 11:43	0° ♎	
asc. node	2306 Mar 27 23:03	16° ♎ 54'29		asc. node	2307 Mar 14 20:06	6° ♎ 15'27	
	2306 Apr 04 02:52	0° ♏		evening max el	2307 Mar 25 19:42	22° ♎ 28'34	18°31'51
evening max el	2306 Apr 11 16:50	10° ♏ 03'46	19°13'02	retrograde	2307 Apr 02 11:28	26° ♎ 14'13	
retrograde	2306 Apr 20 15:53	14° ♏ 24'21		evening set	2307 Apr 04 19:45	25° ♎ 54'12	
evening set	2306 Apr 22 18:16	14° ♏ 11'04		inferior conj	2307 Apr 12 08:15	21° ♎ 25'10	2°29'40
inferior conj	2306 May 01 02:14	10° ♏ 00'42	1°07'15	minimum elong	2307 Apr 12 12:12	21° ♎ 17'23	2°28'39
minimum elong	2306 May 01 04:51	9° ♏ 56'18	1°06'22	min. Earth dist.	2307 Apr 15 18:22	18° ♎ 44'50	0.58174 AU
min. Earth dist.	2306 May 03 23:43	8° ♏ 04'26	0.56350 AU	morning rise	2307 Apr 20 01:36	16° ♎ 01'11	
desc. node	2306 May 05 01:16	7° ♏ 24'00		desc. node	2307 Apr 21 22:17	15° ♎ 14'09	
morning rise	2306 May 09 12:27	5° ♏ 08'57		direct	2307 Apr 25 23:09	14° ♎ 32'11	
direct	2306 May 14 09:40	4° ♏ 13'46		morning max el	2307 May 10 08:25	22° ♎ 11'42	26°44'14
morning max el	2306 May 28 14:57	11° ♏ 29'51	25°22'31		2307 May 17 05:35	0° ♏	
	2306 Jun 11 19:25	0° ♐			2307 Jun 04 15:01	0° ♐	
asc. node	2306 Jun 23 22:19	22° ♐ 43'42		morning set	2307 Jun 08 22:22	8° ♐ 45'58	
morning set	2306 Jun 24 12:03	23° ♐ 55'57		asc. node	2307 Jun 10 19:23	12° ♐ 45'02	
	2306 Jun 27 08:00	0° ♑		superior conj	2307 Jun 15 23:00	23° ♐ 59'46	0°52'01
superior conj	2306 Jul 01 11:17	9° ♑ 02'31	1°12'05	minimum elong	2307 Jun 15 20:58	23° ♐ 48'37	0°51'38
minimum elong	2306 Jul 01 08:54	8° ♑ 49'30	1°11'42	max. Earth dist.	2307 Jun 16 01:16	24° ♐ 12'17	1.32207 AU
max. Earth dist.	2306 Jul 02 13:53	11° ♑ 27'51	1.32606 AU		2307 Jun 18 16:36	0° ♑	
evening rise	2306 Jul 08 13:47	24° ♑ 14'16		evening rise	2307 Jun 22 20:36	8° ♑ 57'00	
	2306 Jul 11 10:10	0° ♒			2307 Jul 03 19:14	0° ♒	
	2306 Jul 29 02:56	0° ♓		desc. node	2307 Jul 18 21:38	21° ♒ 45'48	
desc. node	2306 Aug 01 00:38	3° ♓ 56'01		evening max el	2307 Jul 22 19:21	25° ♒ 50'26	26°41'29
evening max el	2306 Aug 09 16:34	13° ♓ 45'49	27°19'17		2307 Jul 27 22:47	0° ♓	
retrograde	2306 Aug 23 11:52	21° ♓ 01'37		retrograde	2307 Aug 05 18:28	3° ♓ 03'19	
evening set	2306 Aug 30 16:24	18° ♓ 35'13		evening set	2307 Aug 12 13:38	1° ♓ 04'54	
min. Earth dist.	2306 Sep 03 06:33	15° ♓ 44'00	0.62233 AU		2307 Aug 14 07:05	30° ♒	
inferior conj	2306 Sep 06 05:45	12° ♓ 58'51	-3°58'57	min. Earth dist.	2307 Aug 16 09:09	28° ♒ 27'59	0.60213 AU
minimum elong	2306 Sep 06 11:11	12° ♓ 46'11	3°57'35	inferior conj	2307 Aug 19 15:46	25° ♒ 48'11	-4°40'25
morning rise	2306 Sep 13 07:32	7° ♓ 55'56		minimum elong	2307 Aug 19 20:06	25° ♒ 39'20	4°39'48
direct	2306 Sep 15 17:43	7° ♓ 30'03		morning rise	2307 Aug 27 04:33	21° ♒ 07'06	
asc. node	2306 Sep 19 21:30	8° ♓ 48'32		direct	2307 Aug 29 14:33	20° ♒ 45'13	
morning max el	2306 Sep 22 13:26	10° ♓ 57'38	17°52'56	morning max el	2307 Sep 06 01:19	24° ♒ 23'48	18°10'26
	2306 Oct 05 05:26	0° ♈		asc. node	2307 Sep 06 18:34	25° ♒ 07'14	
morning set	2306 Oct 08 13:29	5° ♈ 58'49			2307 Sep 10 16:01	0° ♓	
				morning set	2307 Sep 21 22:02	19° ♓ 33'43	
superior conj	2306 Oct 19 12:57	25° ♈ 20'29	0°55'50		2307 Sep 27 11:40	0° ♈	
minimum elong	2306 Oct 19 17:21	25° ♈ 39'15	0°55'15	superior conj	2307 Oct 01 11:43	7° ♈ 19'19	1°23'10
	2306 Oct 22 07:00	0° ♉		minimum elong	2307 Oct 01 15:43	7° ♈ 37'19	1°22'46
max. Earth dist.	2306 Oct 26 17:51	9° ♉ 21'29	1.43091 AU	max. Earth dist.	2307 Oct 09 02:41	20° ♈ 38'11	1.41294 AU
desc. node	2306 Oct 27 23:56	9° ♉ 23'36		evening rise	2307 Oct 14 05:03	29° ♈ 04'35	
evening rise	2306 Nov 03 02:59	19° ♉ 07'31		desc. node	2307 Oct 14 20:58	0° ♉ 08'54	
	2306 Nov 10 05:04	0° ♊			2307 Oct 14 18:45	0° ♉	
	2306 Dec 01 19:39	0° ♋					

































































































































	2307 Nov 03 19:08	0°♊		evening max el	2308 Oct 29 14:07	29°♎56'50	24°16'31
evening max el	2307 Nov 17 00:52	16°♊19'24	22°56'46		2308 Oct 29 15:24	0°♊	
retrograde	2307 Nov 27 03:41	22°♊19'38		retrograde	2308 Nov 09 18:54	6°♊30'25	
evening set	2307 Dec 01 22:32	20°♊22'06		evening set	2308 Nov 15 03:28	4°♊16'10	
asc. node	2307 Dec 03 17:47	18°♊36'06			2308 Nov 18 23:48	30°♎	
inferior conj	2307 Dec 07 07:23	13°♊59'39	1°11'51	asc. node	2308 Nov 19 14:49	29°♎10'27	
minimum elong	2307 Dec 07 05:48	14°♊05'07	1°11'12	min. Earth dist.	2308 Nov 19 20:45	28°♎50'35	0.67632 AU
min. Earth dist.	2307 Dec 07 00:36	14°♊23'03	0.67854 AU	inferior conj	2308 Nov 20 14:05	27°♎52'16	0°19'58
morning rise	2307 Dec 12 12:57	7°♊50'22		minimum elong	2308 Nov 20 13:36	27°♎53'53	0°19'45
direct	2307 Dec 16 22:29	6°♊04'15		morning rise	2308 Nov 25 23:45	21°♎48'20	
morning max el	2307 Dec 25 19:42	11°♊16'17	21°37'43	direct	2308 Nov 29 19:56	20°♎24'05	
	2308 Jan 09 11:11	0°♋		morning max el	2308 Dec 07 16:30	24°♎54'44	20°21'57
desc. node	2308 Jan 10 20:10	1°♋58'48			2308 Dec 12 03:12	0°♊	
morning set	2308 Jan 26 17:39	26°♋09'27		desc. node	2308 Dec 27 17:13	22°♊10'59	
	2308 Jan 29 03:13	0°♌			2309 Jan 01 20:31	0°♋	
max. Earth dist.	2308 Feb 02 06:42	6°♌46'21	1.41776 AU	morning set	2309 Jan 04 16:14	4°♋20'55	
				max. Earth dist.	2309 Jan 14 14:12	19°♋58'40	1.43523 AU
superior conj	2308 Feb 09 20:53	19°♌39'54	-2°04'50				
minimum elong	2308 Feb 09 22:05	19°♌45'07	2°04'48	superior conj	2309 Jan 20 16:42	29°♋55'53	-2°00'59
	2308 Feb 15 16:34	0°♌		minimum elong	2309 Jan 20 12:45	29°♋39'29	2°00'50
evening rise	2308 Feb 20 18:17	9°♌14'58			2309 Jan 20 17:42	0°♌	
asc. node	2308 Feb 29 17:07	25°♌09'46		evening rise	2309 Feb 02 05:34	21°♌18'38	
	2308 Mar 03 20:06	0°♍			2309 Feb 07 05:14	0°♌	
evening max el	2308 Mar 08 04:50	5°♍20'27	18°10'37	asc. node	2309 Feb 15 14:07	13°♌29'33	
retrograde	2308 Mar 15 00:54	8°♍47'30		evening max el	2309 Feb 19 17:02	18°♌30'58	18°08'49
evening set	2308 Mar 17 15:12	8°♍18'16		retrograde	2309 Feb 26 04:27	21°♌54'38	
inferior conj	2308 Mar 24 10:51	3°♍28'22	3°18'51	evening set	2309 Mar 01 00:07	21°♌14'56	
minimum elong	2308 Mar 24 13:38	3°♍21'59	3°18'24	inferior conj	2309 Mar 07 06:46	16°♌04'25	3°40'06
min. Earth dist.	2308 Mar 27 18:38	0°♍27'16	0.60308 AU	minimum elong	2309 Mar 07 07:36	16°♌02'15	3°40'04
	2308 Mar 28 07:24	30°♌		min. Earth dist.	2309 Mar 10 02:57	13°♌07'32	0.62420 AU
morning rise	2308 Mar 31 09:56	27°♌41'58		morning rise	2309 Mar 13 13:52	10°♌04'28	
direct	2308 Apr 07 00:54	25°♌36'33		direct	2309 Mar 20 12:09	7°♌30'29	
desc. node	2308 Apr 07 19:19	25°♌38'11		desc. node	2309 Mar 25 16:21	8°♌45'53	
	2308 Apr 17 10:00	0°♍		morning max el	2309 Apr 03 12:52	15°♌26'16	27°49'50
morning max el	2308 Apr 21 07:42	3°♍28'03	27°35'29		2309 Apr 15 10:21	0°♍	
	2308 May 10 19:18	0°♎			2309 May 03 09:21	0°♎	
morning set	2308 May 23 05:27	23°♎24'11		morning set	2309 May 07 07:16	7°♎43'33	
	2308 May 26 08:28	0°♏		max. Earth dist.	2309 May 12 21:27	19°♎25'38	1.32587 AU
asc. node	2308 May 27 16:26	2°♏52'32					
max. Earth dist.	2308 May 29 13:05	6°♏55'59	1.32194 AU	superior conj	2309 May 14 19:49	23°♎36'04	0°02'49
				minimum elong	2309 May 14 19:41	23°♎35'20	0°02'47
superior conj	2308 May 30 10:25	8°♏53'01	0°28'41	behind sun begin	2309 May 14 14:34	23°♎07'36	
minimum elong	2308 May 30 09:10	8°♏46'07	0°28'26	behind sun end	2309 May 15 00:48	24°♎03'06	
evening rise	2308 Jun 06 06:52	23°♏47'38		asc. node	2309 May 14 13:27	23°♎01'33	
	2308 Jun 09 06:33	0°♐			2309 May 17 18:20	0°♏	
	2308 Jun 27 06:00	0°♑		evening rise	2309 May 21 18:38	8°♏38'59	
evening max el	2308 Jul 03 15:13	7°♑08'59	25°33'01		2309 Jun 01 20:55	0°♐	
desc. node	2308 Jul 04 18:37	8°♑12'15		evening max el	2309 Jun 15 05:29	17°♐48'49	24°03'07
retrograde	2308 Jul 17 15:30	14°♑17'03		desc. node	2309 Jun 21 15:37	22°♐42'16	
evening set	2308 Jul 23 12:17	12°♑56'21		retrograde	2309 Jun 29 00:25	24°♐45'07	
min. Earth dist.	2308 Jul 28 03:20	10°♑16'00	0.58164 AU	evening set	2309 Jul 03 11:41	24°♐00'56	
inferior conj	2308 Jul 31 07:46	8°♑01'19	-5°00'05	min. Earth dist.	2309 Jul 09 16:09	21°♐00'39	0.56381 AU
minimum elong	2308 Jul 31 08:26	8°♑00'10	5°00'05	inferior conj	2309 Jul 12 03:28	19°♐29'13	-4°43'47
morning rise	2308 Aug 08 06:57	3°♑42'42		minimum elong	2309 Jul 11 22:39	19°♐36'43	4°43'10
direct	2308 Aug 10 19:26	3°♑22'53		morning rise	2309 Jul 20 12:15	15°♐29'52	
morning max el	2308 Aug 19 06:16	7°♑22'58	18°48'27	direct	2309 Jul 23 05:15	15°♐10'45	
asc. node	2308 Aug 23 15:38	12°♑30'59		morning max el	2309 Aug 02 01:18	19°♐44'36	19°47'59
	2308 Sep 02 20:05	0°♒			2309 Aug 10 01:39	0°♑	
morning set	2308 Sep 04 17:28	3°♒40'41		asc. node	2309 Aug 10 12:41	0°♑44'35	
				morning set	2309 Aug 19 20:21	18°♑09'31	
superior conj	2308 Sep 13 06:54	20°♒18'54	1°39'05		2309 Aug 25 16:29	0°♒	
minimum elong	2308 Sep 13 09:12	20°♒29'49	1°38'57				
	2308 Sep 18 12:17	0°♓		superior conj	2309 Aug 27 17:03	4°♒03'04	1°45'18
max. Earth dist.	2308 Sep 20 07:31	3°♓13'38	1.39264 AU	minimum elong	2309 Aug 27 17:31	4°♒05'21	1°45'17
evening rise	2308 Sep 24 06:38	10°♓07'17		max. Earth dist.	2309 Sep 02 12:11	15°♒16'00	1.37243 AU
desc. node	2308 Sep 30 17:59	20°♓48'27		evening rise	2309 Sep 06 07:13	22°♒14'04	
	2308 Oct 06 15:54	0°♔			2309 Sep 10 17:39	0°♓	

desc. node	2309 Sep 17 14:59	11° Ω 17'10			2310 Aug 17 09:07	0° \mathbb{M}	
	2309 Sep 30 12:00	0° \mathbb{M}		evening rise	2310 Aug 20 02:49	5° \mathbb{M} 15'16	
evening max el	2309 Oct 12 02:12	13° \mathbb{M} 36'51	25°30'45		2310 Sep 03 12:47	0° Ω	
retrograde	2309 Oct 24 05:38	20° \mathbb{M} 35'13		desc. node	2310 Sep 04 11:59	1° Ω 29'28	
evening set	2309 Oct 30 04:32	18° \mathbb{M} 05'53		evening max el	2310 Sep 24 14:17	27° Ω 15'03	26°31'58
min. Earth dist.	2309 Nov 03 13:58	13° \mathbb{M} 15'20	0.67071 AU		2310 Sep 27 16:17	0° \mathbb{M}	
inferior conj	2309 Nov 04 18:10	11° \mathbb{M} 44'42	-0°35'53	retrograde	2310 Oct 07 11:23	4° \mathbb{M} 28'17	
minimum elong	2309 Nov 04 19:06	11° \mathbb{M} 41'44	0°35'29	evening set	2310 Oct 13 23:46	1° \mathbb{M} 48'05	
asc. node	2309 Nov 06 11:51	9° \mathbb{M} 33'56			2310 Oct 15 21:49	30° \mathbb{R} Ω	
morning rise	2309 Nov 10 09:55	5° \mathbb{M} 48'44		min. Earth dist.	2310 Oct 18 01:54	27° Ω 33'50	0.66161 AU
direct	2309 Nov 13 18:28	4° \mathbb{M} 43'46		inferior conj	2310 Oct 19 17:44	25° Ω 33'59	-1°34'14
morning max el	2309 Nov 20 21:12	8° \mathbb{M} 43'32	19°19'54	minimum elong	2310 Oct 19 20:15	25° Ω 26'23	1°33'11
greatest brilliancy	2309 Dec 04 16:27	27° \mathbb{M} 22'55	-0.7m	asc. node	2310 Oct 24 08:56	20° Ω 42'47	
	2309 Dec 06 09:43	0° \mathbb{Z}		morning rise	2310 Oct 25 17:20	19° Ω 48'45	
morning set	2309 Dec 14 16:27	12° \mathbb{Z} 46'33		direct	2310 Oct 28 16:22	18° Ω 59'27	
desc. node	2309 Dec 14 14:16	12° \mathbb{Z} 38'05		morning max el	2310 Nov 04 08:23	22° Ω 39'03	18°33'30
	2309 Dec 25 17:21	0° \mathbb{Z}			2310 Nov 10 06:08	0° \mathbb{M}	
max. Earth dist.	2309 Dec 28 04:42	3° \mathbb{Z} 53'46	1.44691 AU	morning set	2310 Nov 24 15:49	22° \mathbb{M} 25'24	
					2310 Nov 29 10:00	0° \mathbb{Z}	
superior conj	2309 Dec 31 10:47	9° \mathbb{Z} 03'20	-1°38'30	desc. node	2310 Dec 01 11:17	3° \mathbb{Z} 15'22	
minimum elong	2309 Dec 31 02:14	8° \mathbb{Z} 29'19	1°37'45				
	2310 Jan 13 08:25	0° \approx		superior conj	2310 Dec 10 13:06	17° \mathbb{Z} 33'00	-0°58'28
evening rise	2310 Jan 14 20:06	2° \approx 27'47		minimum elong	2310 Dec 10 05:50	17° \mathbb{Z} 04'30	0°57'33
	2310 Feb 01 12:38	0° \mathbb{H}		max. Earth dist.	2310 Dec 10 22:56	18° \mathbb{Z} 11'36	1.45160 AU
asc. node	2310 Feb 02 11:08	1° \mathbb{H} 04'26			2310 Dec 18 11:16	0° \mathbb{Z}	
evening max el	2310 Feb 03 05:25	1° \mathbb{H} 52'44	18°25'50	evening rise	2310 Dec 26 11:15	12° \mathbb{Z} 39'04	
retrograde	2310 Feb 09 17:41	5° \mathbb{H} 26'06		greatest brilliancy	2311 Jan 04 09:43	26° \mathbb{Z} 49'28	-0.8m
evening set	2310 Feb 12 18:41	4° \mathbb{H} 35'10			2311 Jan 06 10:32	0° \approx	
	2310 Feb 17 21:04	30° \mathbb{R} \approx		evening max el	2311 Jan 17 15:30	15° \approx 19'45	19°00'42
inferior conj	2310 Feb 18 15:56	29° \approx 05'39	3°40'24	asc. node	2311 Jan 20 08:11	17° \approx 40'56	
minimum elong	2310 Feb 18 15:03	29° \approx 08'15	3°40'21	retrograde	2311 Jan 24 12:34	19° \approx 13'39	
min. Earth dist.	2310 Feb 20 20:56	26° \approx 32'15	0.64272 AU	evening set	2311 Jan 27 19:46	18° \approx 10'31	
morning rise	2310 Feb 24 10:48	22° \approx 58'02		inferior conj	2311 Feb 02 10:38	12° \approx 24'19	3°25'14
direct	2310 Mar 03 07:15	20° \approx 08'46		minimum elong	2311 Feb 02 08:37	12° \approx 30'41	3°24'55
desc. node	2310 Mar 12 13:24	24° \approx 07'30		min. Earth dist.	2311 Feb 04 00:16	10° \approx 25'57	0.65756 AU
morning max el	2310 Mar 16 21:53	28° \approx 01'26	27°27'52	morning rise	2311 Feb 07 21:07	6° \approx 12'37	
	2310 Mar 18 19:22	0° \mathbb{H}		direct	2311 Feb 14 09:08	3° \approx 22'04	
	2310 Apr 09 04:09	0° \mathbb{Y}		desc. node	2311 Feb 27 10:27	11° \approx 07'02	
morning set	2310 Apr 21 01:14	21° \mathbb{Y} 36'27		morning max el	2311 Feb 27 07:51	11° \approx 00'29	26°35'11
	2310 Apr 25 05:10	0° \mathbb{B}			2311 Mar 14 10:33	0° \mathbb{H}	
max. Earth dist.	2310 Apr 25 22:32	1° \mathbb{B} 29'51	1.33407 AU		2311 Apr 01 17:15	0° \mathbb{Y}	
				morning set	2311 Apr 04 07:50	4° \mathbb{Y} 51'25	
superior conj	2310 Apr 29 01:22	8° \mathbb{B} 03'19	-0°24'48	max. Earth dist.	2311 Apr 08 12:41	12° \mathbb{Y} 59'52	1.34678 AU
minimum elong	2310 Apr 29 02:37	8° \mathbb{B} 09'55	0°24'32				
asc. node	2310 May 01 10:29	13° \mathbb{B} 08'26		superior conj	2311 Apr 13 00:48	22° \mathbb{Y} 07'18	-0°52'56
evening rise	2310 May 06 06:03	23° \mathbb{B} 25'03		minimum elong	2311 Apr 13 03:30	22° \mathbb{Y} 21'14	0°52'26
	2310 May 09 10:35	0° \mathbb{I}			2311 Apr 16 19:33	0° \mathbb{B}	
evening max el	2310 May 27 20:21	28° \mathbb{I} 16'53	22°26'43	asc. node	2311 Apr 18 07:30	3° \mathbb{B} 08'29	
	2310 May 29 17:54	0° \mathbb{E}		evening rise	2311 Apr 20 15:09	7° \mathbb{B} 58'35	
desc. node	2310 Jun 08 12:37	4° \mathbb{E} 40'39			2311 May 02 13:09	0° \mathbb{I}	
retrograde	2310 Jun 09 21:16	4° \mathbb{E} 44'53		evening max el	2311 May 09 19:24	9° \mathbb{I} 04'58	20°58'09
evening set	2310 Jun 12 22:11	4° \mathbb{E} 24'31		retrograde	2311 May 21 10:40	14° \mathbb{I} 45'19	
min. Earth dist.	2310 Jun 21 03:25	0° \mathbb{E} 50'59	0.55205 AU	evening set	2311 May 23 14:48	14° \mathbb{I} 34'11	
inferior conj	2310 Jun 22 05:16	0° \mathbb{E} 14'22	-3°39'49	desc. node	2311 May 26 09:39	13° \mathbb{I} 49'54	
minimum elong	2310 Jun 21 21:15	0° \mathbb{E} 25'44	3°37'43	inferior conj	2311 Jun 01 22:55	10° \mathbb{I} 36'08	-1°53'45
	2310 Jun 22 15:24	30° \mathbb{R} \mathbb{I}		minimum elong	2311 Jun 01 17:36	10° \mathbb{I} 43'41	1°51'53
morning rise	2310 Jun 30 22:25	26° \mathbb{I} 22'55		min. Earth dist.	2311 Jun 02 15:42	10° \mathbb{I} 12'21	0.54910 AU
direct	2310 Jul 03 21:37	26° \mathbb{I} 02'55		morning rise	2311 Jun 10 20:16	6° \mathbb{I} 33'05	
	2310 Jul 13 18:30	0° \mathbb{E}		direct	2311 Jun 14 06:58	6° \mathbb{I} 07'26	
morning max el	2310 Jul 15 08:57	1° \mathbb{E} 22'59	21°08'09	morning max el	2311 Jun 27 06:13	12° \mathbb{I} 19'41	22°44'20
asc. node	2310 Jul 28 09:45	19° \mathbb{E} 36'19			2311 Jul 10 10:34	0° \mathbb{E}	
	2310 Aug 02 18:24	0° \mathbb{Q}		asc. node	2311 Jul 15 06:48	8° \mathbb{E} 56'25	
morning set	2310 Aug 04 04:09	2° \mathbb{Q} 53'04		morning set	2311 Jul 19 14:49	17° \mathbb{E} 45'22	
					2311 Jul 25 08:40	0° \mathbb{Q}	
superior conj	2310 Aug 11 13:49	18° \mathbb{Q} 19'09	1°43'33				
minimum elong	2310 Aug 11 12:48	18° \mathbb{Q} 13'55	1°43'30	superior conj	2311 Jul 26 17:47	2° \mathbb{Q} 56'43	1°35'21
max. Earth dist.	2310 Aug 15 21:53	27° \mathbb{Q} 06'36	1.35452 AU	minimum elong	2311 Jul 26 15:49	2° \mathbb{Q} 46'16	1°35'11

max. Earth dist.	2311 Jul 29 16:21	9°08'18	1.34024 AU		2312 Jul 01 19:51	0°00'	
evening rise	2311 Aug 03 12:55	18°05'49		morning set	2312 Jul 03 02:36	2°04'01	
	2311 Aug 09 08:57	0°00'					
desc. node	2311 Aug 22 09:00	21°00'18'05		superior conj	2312 Jul 10 02:21	17°04'47'15	1°21'52
	2311 Aug 28 15:57	0°00'		minimum elong	2312 Jul 09 23:58	17°04'34'21	1°21'33
evening max el	2311 Sep 07 02:24	10°04'43'22	27°12'44	max. Earth dist.	2312 Jul 11 19:42	21°04'30'58	1.33008 AU
retrograde	2311 Sep 20 11:42	18°04'02'03			2312 Jul 15 19:54	0°00'	
evening set	2311 Sep 27 10:47	15°04'18'37		evening rise	2312 Jul 17 09:30	3°00'13'03	
min. Earth dist.	2311 Oct 01 06:25	11°04'40'12	0.64893 AU		2312 Aug 01 03:43	0°00'	
inferior conj	2311 Oct 03 10:35	9°04'16'00	-2°33'05	desc. node	2312 Aug 08 06:02	10°00'32'34	
minimum elong	2311 Oct 03 14:41	9°04'04'38	2°31'34	evening max el	2312 Aug 19 13:02	23°00'49'31	27°26'09
morning rise	2311 Oct 09 19:31	3°04'44'26			2312 Aug 28 05:56	0°00'	
asc. node	2311 Oct 11 06:00	3°04'14'58		retrograde	2312 Sep 02 05:44	1°04'06'49	
direct	2311 Oct 12 11:27	3°04'06'56			2312 Sep 06 22:58	30°00'00'	
morning max el	2311 Oct 18 23:34	6°04'35'39	18°03'49	evening set	2312 Sep 09 10:24	28°00'30'53	
	2311 Nov 03 17:50	0°00'		min. Earth dist.	2312 Sep 13 01:27	25°00'24'36	0.63286 AU
morning set	2311 Nov 05 20:33	3°00'31'34		inferior conj	2312 Sep 15 18:01	22°00'43'57	-3°29'27
desc. node	2311 Nov 18 08:19	23°00'59'28		minimum elong	2312 Sep 15 23:16	22°00'30'51	3°27'53
				morning rise	2312 Sep 22 13:26	17°00'29'21	
superior conj	2311 Nov 19 20:24	26°00'18'47	-0°10'09	direct	2312 Sep 25 00:56	17°00'00'03	
minimum elong	2311 Nov 19 19:09	26°00'18'45	0°09'59	asc. node	2312 Sep 27 03:04	17°00'21'18	
behind sun begin	2311 Nov 19 10:39	25°00'18'44'51		morning max el	2312 Oct 01 15:48	20°00'25'53	17°51'37
behind sun end	2311 Nov 20 03:38	26°00'18'52'37			2312 Oct 08 19:33	0°00'	
	2311 Nov 22 02:47	0°00'		morning set	2312 Oct 18 02:16	15°04'49'42	
max. Earth dist.	2311 Nov 23 17:46	2°00'34'05	1.44890 AU		2312 Oct 26 07:05	0°00'	
evening rise	2311 Dec 06 05:37	22°00'34'02'43					
	2311 Dec 11 09:31	0°00'		superior conj	2312 Oct 30 01:51	6°00'20'51	0°34'38
greatest brilliancy	2311 Dec 19 21:17	12°00'35'25'57	-0.7m	minimum elong	2312 Oct 30 05:14	6°00'34'54	0°34'10
evening max el	2311 Dec 31 21:26	28°00'34'9'39	19°51'44	desc. node	2312 Nov 04 05:21	14°00'46'26	
	2312 Jan 02 02:17	0°00'		max. Earth dist.	2312 Nov 05 10:37	16°00'18'44'14	1.43922 AU
asc. node	2312 Jan 07 05:15	3°00'04'49			2312 Nov 13 20:46	0°00'	
retrograde	2312 Jan 08 10:05	3°00'12'47		evening rise	2312 Nov 14 14:10	1°00'37'13	
evening set	2312 Jan 12 00:58	1°00'56'09			2312 Dec 04 01:15	0°00'	
	2312 Jan 14 04:50	30°00'00'		evening max el	2312 Dec 13 22:00	12°00'30'31	20°56'27
inferior conj	2312 Jan 17 11:51	25°00'35'54'47	2°58'26	retrograde	2312 Dec 22 07:51	17°00'31'16	
minimum elong	2312 Jan 17 09:18	26°00'30'41'16	2°57'49	asc. node	2312 Dec 24 02:18	17°00'30'15'53	
min. Earth dist.	2312 Jan 18 11:20	24°00'33'7'40	0.66841 AU	evening set	2312 Dec 26 08:15	15°00'47'34	
morning rise	2312 Jan 22 17:25	19°00'34'22'29		inferior conj	2312 Dec 31 17:06	9°00'35'58	2°22'35
direct	2312 Jan 28 16:57	17°00'30'22'22		minimum elong	2312 Dec 31 14:34	9°00'34'44'1	2°21'46
morning max el	2312 Feb 09 16:48	24°00'31'13'34	25°20'33	min. Earth dist.	2313 Jan 01 03:54	8°00'35'58'53	0.67527 AU
desc. node	2312 Feb 14 07:31	29°00'31'6'46		morning rise	2313 Jan 05 20:41	3°00'32'56	
	2312 Feb 14 22:00	0°00'		direct	2313 Jan 11 05:39	1°00'30'19	
	2312 Mar 06 20:42	0°00'		morning max el	2313 Jan 22 01:08	7°00'32'8'00	23°54'14
morning set	2312 Mar 16 22:26	17°00'31'5'01		desc. node	2313 Jan 31 04:33	18°00'31'6'08	
max. Earth dist.	2312 Mar 20 15:04	24°00'31'03'13	1.36395 AU		2313 Feb 08 15:09	0°00'	
	2312 Mar 23 17:54	0°00'		morning set	2313 Feb 26 15:02	28°00'30'50	
					2313 Feb 27 11:44	0°00'	
superior conj	2312 Mar 26 15:21	5°00'40'32	-1°19'59	max. Earth dist.	2313 Mar 02 10:36	5°00'31'03'7	1.38448 AU
minimum elong	2312 Mar 26 19:17	6°00'40'00'01	1°19'24				
evening rise	2312 Apr 03 19:49	22°00'41'32'22		superior conj	2313 Mar 09 17:27	18°00'31'33'34	-1°43'32
asc. node	2312 Apr 04 04:33	22°00'41'57'26		minimum elong	2313 Mar 09 21:47	18°00'31'54'09	1°43'04
	2312 Apr 07 17:54	0°00'			2313 Mar 15 15:34	0°00'	
evening max el	2312 Apr 21 06:19	20°00'31'13	19°45'49	evening rise	2313 Mar 18 17:27	6°00'40'21'8	
retrograde	2312 May 01 03:41	25°00'31'18'00		asc. node	2313 Mar 22 01:36	12°00'41'30'22	
evening set	2312 May 03 04:01	25°00'31'06'59			2313 Apr 01 18:58	0°00'	
inferior conj	2312 May 11 22:58	21°00'31'05'11	0°05'36	evening max el	2313 Apr 04 04:10	2°00'36'48	18°53'01
minimum elong	2312 May 11 23:13	21°00'31'04'48	0°05'31	retrograde	2313 Apr 12 12:13	6°00'38'40'06	
transit middle	2312 May 11 23:13	21°00'31'04'48	0°05'31	evening set	2313 Apr 14 17:11	6°00'38'24'12	
transit begin	2312 May 11 19:31	21°00'31'10'33		inferior conj	2313 Apr 22 16:43	2°00'38'06'24	1°46'25
transit end	2312 May 12 02:55	20°00'31'08'59'03		minimum elong	2313 Apr 22 20:19	1°00'38'59'55	1°45'17
desc. node	2312 May 12 06:41	20°00'31'08'53'12			2313 Apr 25 15:26	30°00'38'00'	
min. Earth dist.	2312 May 14 05:37	19°00'31'08'40'43	0.55584 AU	min. Earth dist.	2313 Apr 25 21:45	29°00'41'49'08	0.57072 AU
morning rise	2312 May 20 16:00	16°00'31'08'33'26		desc. node	2313 Apr 29 03:43	27°00'41'48'54	
direct	2312 May 24 23:12	15°00'31'08'52'21		morning rise	2313 Apr 30 20:20	27°00'41'00'25	
morning max el	2312 Jun 07 21:14	22°00'31'08'49'20	24°26'33	direct	2313 May 06 04:37	25°00'41'51'47	
	2312 Jun 14 06:29	0°00'			2313 May 16 15:53	0°00'	
asc. node	2312 Jul 01 03:50	28°00'31'08'37'17		morning max el	2313 May 20 12:12	3°00'38'18'45	26°00'18

	2313 Jun 08 14:38	0°♂			2314 May 31 19:55	0°♂	
morning set	2313 Jun 17 13:57	17°♂35'11		morning set	2314 Jun 01 23:07	2°♂21'03	
asc. node	2313 Jun 18 00:53	18°♂32'57		asc. node	2314 Jun 04 21:54	8°♂37'18	
	2313 Jun 23 07:34	0°♂		max. Earth dist.	2314 Jun 08 17:39	16°♂58'30	1.32159 AU
superior conj	2313 Jun 24 13:27	2°♂44'12	1°04'01	superior conj	2314 Jun 09 01:13	17°♂40'14	0°42'29
minimum elong	2313 Jun 24 11:10	2°♂31'38	1°03'37	minimum elong	2314 Jun 08 23:28	17°♂30'37	0°42'08
max. Earth dist.	2313 Jun 25 05:25	4°♂11'51	1.32392 AU		2314 Jun 14 16:44	0°♂	
evening rise	2313 Jul 01 13:23	17°♂48'25		evening rise	2314 Jun 15 21:56	2°♂35'18	
	2313 Jul 07 16:31	0°♂			2314 Jun 30 15:59	0°♂	
desc. node	2313 Jul 26 03:02	28°♂58'56		desc. node	2314 Jul 13 00:02	16°♂16'27	
	2313 Jul 26 22:59	0°♂		evening max el	2314 Jul 14 19:22	18°♂04'34	26°15'36
evening max el	2313 Aug 01 19:36	6°♂20'23	27°07'22	retrograde	2314 Jul 28 18:57	25°♂15'28	
retrograde	2313 Aug 15 16:31	13°♂34'03		evening set	2314 Aug 04 06:34	23°♂32'06	
evening set	2313 Aug 22 18:34	11°♂18'17		min. Earth dist.	2314 Aug 08 08:13	20°♂56'17	0.59336 AU
min. Earth dist.	2313 Aug 26 09:52	8°♂35'00	0.61394 AU	inferior conj	2314 Aug 11 15:33	18°♂24'43	-4°52'13
inferior conj	2313 Aug 29 12:53	5°♂50'16	-4°18'29	minimum elong	2314 Aug 11 18:40	18°♂18'45	4°51'55
minimum elong	2313 Aug 29 18:07	5°♂38'42	4°17'23	morning rise	2314 Aug 19 08:53	13°♂53'28	
morning rise	2313 Sep 05 19:20	0°♂56'03		direct	2314 Aug 21 19:48	13°♂32'34	
direct	2313 Sep 08 05:13	0°♂32'01		morning max el	2314 Aug 29 15:25	17°♂18'23	18°24'05
asc. node	2313 Sep 14 00:06	2°♂55'40		asc. node	2314 Aug 31 21:08	19°♂43'25	
morning max el	2313 Sep 15 06:08	4°♂03'02	17°57'57		2314 Sep 07 17:47	0°♂	
morning set	2313 Oct 01 02:37	29°♂01'11		morning set	2314 Sep 14 16:14	12°♂50'32	
	2313 Oct 01 15:27	0°♂					
superior conj	2313 Oct 11 10:24	17°♂37'40	1°08'53	superior conj	2314 Sep 23 18:32	0°♂04'05	1°31'14
minimum elong	2313 Oct 11 14:53	17°♂57'16	1°08'22	minimum elong	2314 Sep 23 21:53	0°♂19'30	1°30'57
	2313 Oct 18 16:56	0°♂			2314 Sep 23 17:39	0°♂	
max. Earth dist.	2313 Oct 18 23:16	0°♂26'11	1.42376 AU	max. Earth dist.	2314 Oct 01 06:17	13°♂25'38	1.40442 AU
desc. node	2313 Oct 22 02:23	5°♂33'09		evening rise	2314 Oct 05 17:20	20°♂57'36	
evening rise	2313 Oct 25 05:45	10°♂34'38		desc. node	2314 Oct 08 23:24	26°♂16'06	
	2313 Nov 06 23:41	0°♂			2314 Oct 11 07:37	0°♂	
evening max el	2313 Nov 26 17:02	25°♂52'23	22°11'10	evening max el	2314 Nov 01 03:43	0°♂	
	2313 Dec 01 15:30	0°♂			2314 Nov 09 07:37	9°♂26'29	23°30'55
retrograde	2313 Dec 06 04:10	1°♂30'07		retrograde	2314 Nov 19 21:38	15°♂42'02	
	2313 Dec 10 06:39	30°♂30'07		evening set	2314 Nov 24 22:17	13°♂37'00	
evening set	2313 Dec 10 15:53	29°♂42'01		asc. node	2314 Nov 27 20:22	10°♂30'44	
asc. node	2313 Dec 10 23:20	29°♂26'20		inferior conj	2314 Nov 30 07:42	7°♂13'17	0°50'24
inferior conj	2313 Dec 16 00:19	23°♂22'27	1°39'26	minimum elong	2314 Nov 30 06:32	7°♂17'16	0°49'55
minimum elong	2313 Dec 15 22:16	23°♂29'33	1°38'40	min. Earth dist.	2314 Nov 29 20:20	7°♂52'12	0.67795 AU
min. Earth dist.	2313 Dec 15 23:39	23°♂24'44	0.67837 AU	morning rise	2314 Dec 05 14:46	1°♂06'12	
morning rise	2313 Dec 21 04:30	17°♂11'27			2314 Dec 07 10:11	30°♂11'11	
direct	2313 Dec 25 22:25	15°♂12'14		direct	2314 Dec 09 18:21	29°♂29'51	
morning max el	2314 Jan 04 11:54	20°♂50'45	22°26'04	morning max el	2314 Dec 12 05:32	0°♂	
	2314 Jan 12 06:49	0°♂		desc. node	2314 Dec 18 04:29	4°♂23'12	21°04'08
desc. node	2314 Jan 18 01:36	7°♂51'05			2315 Jan 04 22:39	27°♂51'43	
	2314 Feb 01 21:41	0°♂		morning set	2315 Jan 06 09:16	0°♂	
morning set	2314 Feb 07 03:51	8°♂24'48		max. Earth dist.	2315 Jan 17 12:57	17°♂02'31	
max. Earth dist.	2314 Feb 12 07:18	16°♂57'38	1.40605 AU		2315 Jan 25 10:14	29°♂39'03	1.42569 AU
	2314 Feb 19 18:45	0°♂			2315 Jan 25 15:22	0°♂	
superior conj	2314 Feb 20 02:25	0°♂34'23	-2°00'09	superior conj	2315 Feb 01 13:03	11°♂31'06	-2°05'16
minimum elong	2314 Feb 20 05:29	0°♂48'12	2°00'00	minimum elong	2315 Feb 01 12:18	11°♂27'51	2°05'16
evening rise	2314 Mar 02 04:54	19°♂17'14			2315 Feb 12 01:50	0°♂	
	2314 Mar 07 23:50	0°♂		evening rise	2315 Feb 13 02:17	1°♂49'46	
asc. node	2314 Mar 08 22:37	1°♂40'57		asc. node	2315 Feb 23 19:39	20°♂22'11	
evening max el	2314 Mar 18 10:05	15°♂14'06	18°20'18	evening max el	2315 Mar 01 20:52	28°♂15'00	18°07'27
retrograde	2314 Mar 25 16:00	18°♂50'01			2315 Mar 03 22:10	0°♂	
evening set	2314 Mar 28 02:57	18°♂26'14		retrograde	2315 Mar 08 12:12	1°♂39'17	
inferior conj	2314 Apr 04 07:47	13°♂48'00	2°54'25	evening set	2315 Mar 11 04:42	1°♂05'51	
minimum elong	2314 Apr 04 11:26	13°♂40'18	2°53'36		2315 Mar 13 05:23	30°♂11'11	
min. Earth dist.	2314 Apr 07 18:13	10°♂56'01	0.59067 AU	inferior conj	2315 Mar 17 18:21	26°♂06'59	3°30'48
morning rise	2314 Apr 11 17:17	8°♂13'17		minimum elong	2315 Mar 17 20:19	26°♂02'12	3°30'36
desc. node	2314 Apr 16 00:45	6°♂38'53		min. Earth dist.	2315 Mar 20 21:53	23°♂04'45	0.61221 AU
direct	2314 Apr 17 23:14	6°♂28'50		morning rise	2315 Mar 24 10:11	20°♂13'32	
morning max el	2314 May 02 08:03	14°♂13'52	27°10'24	direct	2315 Mar 31 05:16	17°♂54'39	
	2314 May 14 23:05	0°♂		desc. node	2315 Apr 02 21:47	18°♂14'55	
				morning max el	2315 Apr 14 10:19	25°♂49'26	27°46'11

	2315 Apr 18 07:27	0° Υ		direct	2316 Mar 12 20:21	0° Υ 08'03	
	2315 May 08 10:15	0° Υ		desc. node	2316 Mar 19 18:50	2° Υ 23'31	
morning set	2315 May 17 04:16	16° Υ 52'29		morning max el	2316 Mar 26 17:27	8° Υ 04'25	27°44'35
asc. node	2315 May 22 18:56	28° Υ 45'57			2316 Apr 12 15:03	0° Υ	
max. Earth dist.	2315 May 23 04:31	29° Υ 38'01	1.32314 AU		2316 Apr 29 14:44	0° Υ	
	2315 May 23 08:33	0° Π		morning set	2316 Apr 30 03:08	1° Υ 01'55	
				max. Earth dist.	2316 May 05 10:04	11° Υ 57'12	1.32879 AU
superior conj	2315 May 24 12:00	2° Π 29'52	0°17'59				
minimum elong	2315 May 24 11:11	2° Π 25'24	0°17'48	superior conj	2316 May 07 20:03	17° Υ 07'14	-0°08'45
evening rise	2315 May 31 09:04	17° Π 26'50		minimum elong	2316 May 07 20:29	17° Υ 09'32	0°08'40
	2315 Jun 06 13:43	0° Ξ		behind sun begin	2316 May 07 16:02	16° Υ 45'33	
evening max el	2315 Jun 26 12:06	29° Ξ 03'18	24°56'22	behind sun end	2316 May 08 00:56	17° Υ 33'32	
	2315 Jun 27 12:29	0° Ω		asc. node	2316 May 08 15:59	18° Υ 54'44	
desc. node	2315 Jun 29 21:02	1° Ω 57'29			2316 May 13 19:13	0° Π	
retrograde	2315 Jul 10 11:25	6° Ω 08'35		evening rise	2316 May 14 20:55	2° Π 16'39	
evening set	2315 Jul 15 18:54	5° Ω 04'09			2316 May 30 03:07	0° Ξ	
min. Earth dist.	2315 Jul 20 23:34	2° Ω 17'02	0.57354 AU	evening max el	2316 Jun 07 01:49	9° Ξ 35'01	23°21'59
inferior conj	2315 Jul 23 22:56	0° Ω 18'31	-4°58'26	desc. node	2316 Jun 15 18:03	15° Ξ 27'27	
minimum elong	2315 Jul 23 21:19	0° Ω 21'13	4°58'21	retrograde	2316 Jun 20 15:28	16° Ξ 21'51	
	2315 Jul 24 10:03	30° Υ		evening set	2316 Jun 24 10:54	15° Ξ 50'02	
morning rise	2315 Aug 01 02:22	26° Ξ 09'15		min. Earth dist.	2316 Jul 01 11:47	12° Ξ 36'54	0.55786 AU
direct	2315 Aug 03 16:28	25° Ξ 50'00		inferior conj	2316 Jul 03 10:27	11° Ξ 27'57	-4°22'43
morning max el	2315 Aug 12 16:32	0° Ω 02'46	19°11'12	minimum elong	2316 Jul 03 03:41	11° Ξ 38'00	4°21'28
	2315 Aug 12 15:21	0° Ω		morning rise	2316 Jul 11 22:59	7° Ξ 33'32	
asc. node	2315 Aug 18 18:11	7° Ω 29'37		direct	2316 Jul 14 18:06	7° Ξ 14'25	
morning set	2315 Aug 29 15:08	27° Ω 07'05		morning max el	2316 Jul 25 06:54	12° Ξ 07'16	20°19'41
	2315 Aug 31 01:54	0° Π		asc. node	2316 Aug 04 15:14	26° Ξ 01'08	
					2316 Aug 06 20:51	0° Ω	
superior conj	2315 Sep 06 20:40	13° Π 24'06	1°42'48	morning set	2316 Aug 12 20:26	11° Ω 43'21	
minimum elong	2315 Sep 06 22:10	13° Π 31'20	1°42'44				
max. Earth dist.	2315 Sep 13 09:52	25° Π 42'24	1.38381 AU	superior conj	2316 Aug 20 11:52	27° Ω 23'46	1°45'25
	2315 Sep 15 19:19	0° Ξ		minimum elong	2316 Aug 20 11:38	27° Ω 22'37	1°45'25
evening rise	2315 Sep 17 04:58	2° Ξ 27'45			2316 Aug 21 18:56	0° Π	
desc. node	2315 Sep 25 20:23	16° Ξ 51'11		max. Earth dist.	2316 Aug 25 15:54	7° Π 36'23	1.36444 AU
	2315 Oct 04 12:01	0° Π		evening rise	2316 Aug 29 14:20	15° Π 00'12	
evening max el	2315 Oct 22 19:56	23° Π 04'11	24°49'19		2316 Sep 07 05:06	0° Ξ	
retrograde	2315 Nov 03 11:12	29° Π 50'27		desc. node	2316 Sep 11 17:24	7° Ξ 13'59	
evening set	2315 Nov 09 01:46	27° Π 29'22			2316 Sep 28 03:24	0° Π	
min. Earth dist.	2315 Nov 13 15:33	22° Π 18'24	0.67423 AU	evening max el	2316 Oct 04 08:04	6° Π 44'56	25°58'56
inferior conj	2315 Nov 14 13:30	21° Π 05'48	-0°03'22	retrograde	2316 Oct 16 19:57	13° Π 51'04	
minimum elong	2315 Nov 14 13:35	21° Π 05'31	0°03'19	evening set	2316 Oct 23 00:37	11° Π 16'42	
transit middle	2315 Nov 14 13:35	21° Π 05'31	0°03'19	min. Earth dist.	2316 Oct 27 06:58	6° Π 41'11	0.66722 AU
transit begin	2315 Nov 14 10:53	21° Π 14'28		inferior conj	2316 Oct 28 15:56	4° Π 57'52	-1°00'26
transit end	2315 Nov 14 16:17	20° Π 56'35		minimum elong	2316 Oct 28 17:31	4° Π 52'54	0°59'45
asc. node	2315 Nov 14 17:25	20° Π 52'50		asc. node	2316 Oct 31 14:27	1° Π 29'52	
morning rise	2315 Nov 20 01:30	15° Π 04'52			2316 Nov 02 04:33	30° Υ	
direct	2315 Nov 23 16:24	13° Π 49'23		morning rise	2316 Nov 03 10:47	29° Ξ 05'48	
morning max el	2315 Dec 01 04:43	18° Π 06'04	19°53'46	direct	2316 Nov 06 15:00	28° Ξ 07'56	
	2315 Dec 10 14:57	0° Υ			2316 Nov 11 06:59	0° Π	
desc. node	2315 Dec 22 19:40	18° Υ 10'21		morning max el	2316 Nov 13 12:21	1° Π 58'08	18°58'07
morning set	2315 Dec 27 08:49	25° Υ 09'44			2316 Dec 03 03:21	0° Υ	
	2315 Dec 30 11:43	0° Ξ		morning set	2316 Dec 05 17:00	4° Υ 01'23	
max. Earth dist.	2316 Jan 07 20:25	13° Ξ 09'12	1.44089 AU	desc. node	2316 Dec 08 16:42	8° Υ 42'13	
				max. Earth dist.	2316 Dec 20 12:34	27° Υ 14'58	1.44981 AU
superior conj	2316 Jan 12 21:29	21° Ξ 15'56	-1°53'52				
minimum elong	2316 Jan 12 15:10	20° Ξ 50'19	1°53'28	superior conj	2316 Dec 22 06:52	0° Ξ 01'33	-1°23'18
	2316 Jan 18 05:07	0° \approx		minimum elong	2316 Dec 21 21:59	29° Υ 26'32	1°22'22
evening rise	2316 Jan 26 05:11	13° \approx 30'27			2316 Dec 22 06:28	0° Ξ	
	2316 Feb 04 23:49	0° Υ		evening rise	2317 Jan 06 09:48	24° Ξ 14'03	
asc. node	2316 Feb 10 16:42	8° Υ 24'21			2317 Jan 09 22:44	0° \approx	
evening max el	2316 Feb 13 09:29	11° Υ 30'56	18°13'52	evening max el	2317 Jan 26 21:14	24° \approx 55'32	18°38'40
retrograde	2316 Feb 19 20:19	14° Υ 57'20		asc. node	2317 Jan 27 13:45	25° \approx 36'01	
evening set	2316 Feb 22 18:08	14° Υ 13'06		retrograde	2317 Feb 02 12:13	28° \approx 36'04	
inferior conj	2316 Feb 28 20:24	8° Υ 54'34	3°42'23	evening set	2317 Feb 05 15:48	27° \approx 40'01	
minimum elong	2316 Feb 28 20:27	8° Υ 54'28	3°42'23	inferior conj	2317 Feb 11 10:01	22° \approx 03'21	3°35'34
min. Earth dist.	2316 Mar 02 10:27	6° Υ 05'24	0.63245 AU	minimum elong	2317 Feb 11 08:34	22° \approx 07'43	3°35'25
morning rise	2316 Mar 05 21:48	2° Υ 50'41		min. Earth dist.	2317 Feb 13 08:27	19° \approx 43'49	0.64955 AU

morning rise	2317 Feb 17 00:53	15°  53'54		morning rise	2318 Jan 31 15:48	29°  15'18	
direct	2317 Feb 23 18:35	13°  02'15		direct	2318 Feb 06 22:54	26°  28'12	
desc. node	2317 Mar 06 15:54	18°  30'14			2318 Feb 15 03:43	0° 	
morning max el	2317 Mar 09 02:55	20°  50'02	27°08'42	morning max el	2318 Feb 19 12:31	3°  55'14	26°05'41
	2317 Mar 17 01:21	0° 		desc. node	2318 Feb 21 12:57	6°  02'32	
	2317 Apr 05 17:43	0° 			2318 Mar 11 10:01	0° 	
morning set	2317 Apr 13 16:46	14°  39'56		morning set	2318 Mar 27 17:14	27°  35'04	
max. Earth dist.	2317 Apr 18 06:38	23°  46'10	1.33890 AU		2318 Mar 29 00:14	0° 	
	2317 Apr 21 06:59	0° 		max. Earth dist.	2318 Mar 31 15:56	5°  04'27	1.35356 AU
superior conj	2317 Apr 21 23:20	1°  25'44	-0°36'44	superior conj	2318 Apr 05 19:25	15°  18'08	-1°04'39
minimum elong	2317 Apr 22 01:12	1°  35'32	0°36'22	minimum elong	2318 Apr 05 22:42	15°  34'47	1°04'05
asc. node	2317 Apr 25 13:02	8°  59'24		asc. node	2318 Apr 12 10:06	28°  55'49	
evening rise	2317 Apr 29 07:37	16°  58'19			2318 Apr 12 22:32	0° 	
	2317 May 05 20:22	0° 		evening rise	2318 Apr 13 15:09	1°  25'24	
evening max el	2317 May 19 19:37	20°  11'09	21°47'31		2318 Apr 30 19:07	0° 	
retrograde	2317 Jun 01 07:37	26°  11'59		evening max el	2318 May 01 23:34	1°  12'39	20°25'07
desc. node	2317 Jun 02 15:05	26°  11'40		retrograde	2318 May 12 20:58	6°  13'00	
evening set	2317 Jun 03 21:37	26°  11'03		evening set	2318 May 14 22:05	6°  11'39	
inferior conj	2317 Jun 13 07:15	22°  11'00	-2°58'45	desc. node	2318 May 20 12:07	4°  12'04	
minimum elong	2317 Jun 12 23:40	22°  11'10	2°56'25	inferior conj	2318 May 24 01:53	2°  11'36	-1°02'42
min. Earth dist.	2317 Jun 12 23:20	22°  11'21	0.54965 AU	minimum elong	2318 May 23 22:55	2°  11'25	1°01'36
morning rise	2317 Jun 22 02:55	18°  11'06		min. Earth dist.	2318 May 25 11:54	1°  11'32	0.55084 AU
direct	2317 Jun 25 06:20	17°  11'44			2318 May 28 06:49	30° 	
morning max el	2317 Jul 07 09:41	23°  11'26	21°47'28	morning rise	2318 Jun 01 22:40	28°  11'08	
	2317 Jul 13 04:38	0° 		direct	2318 Jun 05 17:07	27°  11'37	
asc. node	2317 Jul 22 12:17	15°  11'06			2318 Jun 13 17:13	0° 	
morning set	2317 Jul 28 05:44	26°  11'31		morning max el	2318 Jun 19 03:38	4°  11'09	23°27'49
	2317 Jul 29 21:30	0° 			2318 Jul 07 00:49	0° 	
superior conj	2317 Aug 04 12:04	11°  11'50	1°40'47	asc. node	2318 Jul 09 09:21	4°  11'36	
minimum elong	2317 Aug 04 10:35	11°  11'42	1°40'41	morning set	2318 Jul 12 17:07	11°  11'26	
max. Earth dist.	2317 Aug 08 05:27	19°  11'31	1.34804 AU	superior conj	2318 Jul 19 18:18	26°  11'34	1°30'13
evening rise	2317 Aug 12 16:43	28°  11'21		minimum elong	2318 Jul 19 16:06	26°  11'22	1°29'59
	2317 Aug 13 13:21	0° 			2318 Jul 21 08:43	0° 	
desc. node	2317 Aug 29 14:26	27°  11'17		max. Earth dist.	2318 Jul 22 04:09	1°  11'43	1.33549 AU
	2317 Aug 31 10:11	0° 		evening rise	2318 Jul 27 07:44	12°  11'19	
evening max el	2317 Sep 16 20:31	20°  11'21	26°52'13		2318 Aug 05 19:14	0° 	
retrograde	2317 Sep 29 23:16	27°  11'36		desc. node	2318 Aug 16 11:26	16°  11'53	
evening set	2317 Oct 06 16:39	24°  11'54			2318 Aug 26 18:09	0° 	
min. Earth dist.	2317 Oct 10 16:02	20°  11'55	0.65672 AU	evening max el	2318 Aug 30 08:14	3°  11'41	27°21'56
inferior conj	2317 Oct 12 12:56	18°  11'44	-1°59'15	retrograde	2318 Sep 12 20:45	10°  11'59	
minimum elong	2317 Oct 12 16:09	18°  11'35	1°57'58	evening set	2318 Sep 19 23:13	8°  11'17	
asc. node	2317 Oct 18 11:30	13°  11'11		min. Earth dist.	2318 Sep 23 16:33	4°  11'53	0.64261 AU
morning rise	2317 Oct 18 16:20	13°  11'04		inferior conj	2318 Sep 26 02:07	2°  11'21	-2°57'30
direct	2317 Oct 21 12:09	12°  11'20		minimum elong	2318 Sep 26 06:48	2°  11'09	2°55'54
morning max el	2317 Oct 28 01:30	15°  11'54	18°18'44		2318 Sep 28 09:41	30° 	
	2317 Nov 07 08:19	0° 		morning rise	2318 Oct 02 15:26	26°  11'56	
morning set	2317 Nov 16 05:01	14°  11'18		direct	2318 Oct 05 05:14	26°  11'23	
desc. node	2317 Nov 25 13:45	29°  11'22		asc. node	2318 Oct 05 08:33	26°  11'23	
	2317 Nov 25 23:06	0° 		morning max el	2318 Oct 11 17:31	29°  11'49	17°56'25
superior conj	2317 Dec 01 08:29	8°  11'32	-0°38'12		2318 Oct 11 21:44	0° 	
minimum elong	2317 Dec 01 03:34	8°  11'12	0°37'33	morning set	2318 Oct 28 21:06	25°  11'57	
max. Earth dist.	2317 Dec 03 07:50	11°  11'38	1.45141 AU		2318 Oct 31 06:15	0° 	
	2317 Dec 15 01:15	0° 		superior conj	2318 Nov 10 23:46	17°  11'47	0°09'53
evening rise	2317 Dec 17 15:19	4°  11'02		minimum elong	2318 Nov 11 00:54	17°  11'51	0°09'44
greatest brilliancy	2317 Dec 28 18:53	21°  11'24	-0.8m	behind sun begin	2318 Nov 10 16:41	17°  11'18	
	2318 Jan 03 13:34	0° 		behind sun end	2318 Nov 11 09:07	18°  11'25	
evening max el	2318 Jan 10 05:46	8°  11'24	19°20'37	desc. node	2318 Nov 12 10:46	20°  11'08	
asc. node	2318 Jan 14 10:47	11°  11'43		max. Earth dist.	2318 Nov 16 02:34	25°  11'59	1.44561 AU
retrograde	2318 Jan 17 08:31	12°  11'29			2318 Nov 18 15:32	0° 	
evening set	2318 Jan 20 18:54	11°  11'20		evening rise	2318 Nov 27 03:40	13°  11'31	
inferior conj	2318 Jan 26 07:47	5°  11'27	3°15'07		2318 Dec 08 04:29	0° 	
minimum elong	2318 Jan 26 05:28	5°  11'35	3°14'40	evening max el	2318 Dec 24 09:24	21°  11'53	20°17'46
min. Earth dist.	2318 Jan 27 15:08	3°  11'46	0.66266 AU	retrograde	2319 Jan 01 06:27	26°  11'31	
	2318 Jan 30 20:58	30° 		asc. node	2319 Jan 01 07:49	26°  11'31	

evening set	2319 Jan 05 01:11	25° ♁ 08'49		minimum elong	2319 Dec 25 14:54	2° ♁ 55'04	2°04'16
inferior conj	2319 Jan 10 10:57	19° ♁ 03'01	2°44'13	min. Earth dist.	2319 Dec 25 23:05	2° ♁ 26'43	0.67700 AU
minimum elong	2319 Jan 10 08:21	19° ♁ 11'50	2°43'29		2319 Dec 27 18:31	30° ♁ 27	
min. Earth dist.	2319 Jan 11 04:46	18° ♁ 02'44	0.67174 AU	morning rise	2319 Dec 30 20:49	26° ♁ 34'11	
morning rise	2319 Jan 15 15:20	12° ♁ 49'36		direct	2320 Jan 04 23:15	24° ♁ 21'51	
direct	2319 Jan 21 08:40	10° ♁ 16'56			2320 Jan 14 18:32	0° ♁	
morning max el	2319 Feb 01 21:11	17° ♁ 09'33	24°44'47	morning max el	2320 Jan 15 06:10	0° ♁ 28'58	23°16'22
desc. node	2319 Feb 08 10:00	24° ♁ 35'18		desc. node	2320 Jan 26 07:02	13° ♁ 51'33	
	2319 Feb 12 14:19	0° ♁			2320 Feb 06 12:00	0° ♁	
	2319 Mar 04 10:14	0° ♁		morning set	2320 Feb 19 04:31	20° ♁ 13'51	
morning set	2319 Mar 09 23:12	9° ♁ 31'36		max. Earth dist.	2320 Feb 23 09:25	27° ♁ 24'39	1.39366 AU
max. Earth dist.	2319 Mar 13 14:50	16° ♁ 06'03	1.37233 AU		2320 Feb 24 20:55	0° ♁	
superior conj	2319 Mar 20 05:05	28° ♁ 34'54	-1°30'35	superior conj	2320 Mar 02 00:25	11° ♁ 06'41	-1°51'41
minimum elong	2319 Mar 20 09:20	28° ♁ 55'36	1°30'01	minimum elong	2320 Mar 02 04:30	11° ♁ 25'36	1°51'21
	2319 Mar 20 22:30	0° ♁		evening rise	2320 Mar 11 10:49	29° ♁ 04'56	
evening rise	2319 Mar 28 17:08	15° ♁ 29'55			2320 Mar 11 22:15	0° ♁	
asc. node	2319 Mar 30 07:08	18° ♁ 38'34		asc. node	2320 Mar 16 04:09	8° ♁ 02'34	
	2319 Apr 05 08:07	0° ♁		evening max el	2320 Mar 27 16:52	25° ♁ 15'02	18°36'41
evening max el	2319 Apr 14 15:14	12° ♁ 55'19	19°20'56	retrograde	2320 Apr 04 12:27	29° ♁ 04'37	
retrograde	2319 Apr 23 19:58	17° ♁ 22'26		evening set	2320 Apr 06 19:52	28° ♁ 45'45	
evening set	2319 Apr 25 21:32	17° ♁ 09'55		inferior conj	2320 Apr 14 11:10	24° ♁ 19'51	2°19'25
inferior conj	2319 May 04 08:28	13° ♁ 02'05	0°51'55	minimum elong	2320 Apr 14 15:07	24° ♁ 12'14	2°18'20
minimum elong	2319 May 04 10:34	12° ♁ 58'37	0°51'10	min. Earth dist.	2320 Apr 17 20:35	21° ♁ 44'40	0.57876 AU
min. Earth dist.	2319 May 07 02:38	11° ♁ 13'40	0.56125 AU	morning rise	2320 Apr 22 07:16	19° ♁ 00'13	
desc. node	2319 May 07 09:09	11° ♁ 03'20		desc. node	2320 Apr 23 06:11	18° ♁ 35'05	
morning rise	2319 May 12 20:41	8° ♁ 15'26		direct	2320 Apr 28 01:37	17° ♁ 36'33	
direct	2319 May 17 14:08	7° ♁ 24'19		morning max el	2320 May 12 10:38	25° ♁ 13'22	26°33'48
morning max el	2319 May 31 18:04	14° ♁ 36'09	25°08'27		2320 May 16 20:52	0° ♁	
	2319 Jun 12 22:52	0° ♁			2320 Jun 05 01:59	0° ♁	
asc. node	2319 Jun 26 06:24	24° ♁ 24'22		morning set	2320 Jun 10 15:30	11° ♁ 13'31	
morning set	2319 Jun 27 04:55	26° ♁ 22'33		asc. node	2320 Jun 12 03:25	14° ♁ 24'08	
	2319 Jun 28 21:42	0° ♁					
superior conj	2319 Jul 04 04:10	11° ♁ 28'43	1°14'48	superior conj	2320 Jun 17 15:45	26° ♁ 25'56	0°55'18
minimum elong	2319 Jul 04 01:47	11° ♁ 15'38	1°14'26	minimum elong	2320 Jun 17 13:39	26° ♁ 14'20	0°54'54
max. Earth dist.	2319 Jul 05 10:29	14° ♁ 13'58	1.32695 AU	max. Earth dist.	2320 Jun 17 21:28	26° ♁ 57'22	1.32238 AU
evening rise	2319 Jul 11 07:43	26° ♁ 43'32			2320 Jun 19 06:41	0° ♁	
	2319 Jul 12 22:22	0° ♁		evening rise	2320 Jun 24 13:49	11° ♁ 24'30	
	2319 Jul 30 04:13	0° ♁			2320 Jul 04 03:17	0° ♁	
desc. node	2319 Aug 03 08:27	5° ♁ 49'33		desc. node	2320 Jul 20 05:27	23° ♁ 49'49	
evening max el	2319 Aug 12 17:13	16° ♁ 33'36	27°22'08	evening max el	2320 Jul 24 21:07	28° ♁ 45'38	26°49'20
retrograde	2319 Aug 26 12:02	23° ♁ 50'10			2320 Jul 26 05:41	0° ♁	
evening set	2319 Sep 02 16:53	21° ♁ 20'48		retrograde	2320 Aug 07 19:50	5° ♁ 58'45	
min. Earth dist.	2319 Sep 06 07:01	18° ♁ 26'03	0.62513 AU	evening set	2320 Aug 14 17:08	3° ♁ 55'32	
inferior conj	2319 Sep 09 04:37	15° ♁ 41'30	-3°51'33	min. Earth dist.	2320 Aug 18 11:10	1° ♁ 17'28	0.60520 AU
minimum elong	2319 Sep 09 10:04	15° ♁ 28'35	3°50'06		2320 Aug 20 00:58	30° ♁ 00	
morning rise	2319 Sep 16 04:45	10° ♁ 35'33		inferior conj	2320 Aug 21 17:04	28° ♁ 35'48	-4°35'22
direct	2319 Sep 18 15:09	10° ♁ 08'55		minimum elong	2320 Aug 21 21:43	28° ♁ 26'05	4°34'35
asc. node	2319 Sep 22 05:36	11° ♁ 08'57		morning rise	2320 Aug 29 04:13	23° ♁ 51'08	
morning max el	2319 Sep 25 09:25	13° ♁ 35'51	17°51'59	direct	2320 Aug 31 14:02	23° ♁ 28'48	
	2319 Oct 06 14:06	0° ♁		morning max el	2320 Sep 07 22:02	27° ♁ 05'15	18°06'31
morning set	2319 Oct 11 11:30	8° ♁ 40'38		asc. node	2320 Sep 08 02:39	27° ♁ 16'33	
					2320 Sep 10 12:38	0° ♁	
superior conj	2319 Oct 22 16:55	28° ♁ 19'31	0°50'37	morning set	2320 Sep 23 18:05	22° ♁ 10'04	
minimum elong	2319 Oct 22 21:09	28° ♁ 37'29	0°50'04		2320 Sep 27 22:49	0° ♁	
	2319 Oct 23 16:42	0° ♁		superior conj	2320 Oct 03 12:09	10° ♁ 07'55	1°19'47
max. Earth dist.	2319 Oct 29 17:32	9° ♁ 58'28	1.43321 AU	minimum elong	2320 Oct 03 16:19	10° ♁ 26'34	1°19'20
desc. node	2319 Oct 30 07:47	10° ♁ 56'09		max. Earth dist.	2320 Oct 11 03:20	23° ♁ 21'59	1.41586 AU
evening rise	2319 Nov 06 13:09	22° ♁ 23'06			2320 Oct 15 03:37	0° ♁	
	2319 Nov 11 11:59	0° ♁		desc. node	2320 Oct 16 04:47	1° ♁ 41'57	
	2319 Dec 02 13:52	0° ♁		evening rise	2320 Oct 16 12:12	2° ♁ 11'52	
evening max el	2319 Dec 07 07:27	5° ♁ 25'05	21°27'14		2320 Nov 03 22:16	0° ♁	
retrograde	2319 Dec 16 03:55	10° ♁ 40'54		evening max el	2320 Nov 19 00:26	18° ♁ 58'09	22°44'51
asc. node	2319 Dec 19 04:51	9° ♁ 49'57		retrograde	2320 Nov 28 23:09	24° ♁ 52'30	
evening set	2319 Dec 20 08:48	9° ♁ 02'27		evening set	2320 Dec 03 16:06	22° ♁ 57'30	
inferior conj	2319 Dec 25 17:17	2° ♁ 46'49	2°05'05	asc. node	2320 Dec 05 01:53	21° ♁ 37'35	

inferior conj	2320 Dec 09 00:48	16°♊35'46	1°19'17	min. Earth dist.	2321 Nov 22 15:57	1°♊21'10	0.67689 AU
minimum elong	2320 Dec 08 23:05	16°♊41'42	1°18'36	inferior conj	2321 Nov 23 07:45	0°♊27'48	0°28'05
min. Earth dist.	2320 Dec 08 19:37	16°♊53'42	0.67864 AU	minimum elong	2321 Nov 23 07:04	0°♊30'04	0°27'49
morning rise	2320 Dec 14 05:56	10°♊25'57			2321 Nov 23 15:59	30°♊	
direct	2320 Dec 18 17:39	8°♊36'21		morning rise	2321 Nov 28 16:41	24°♊23'03	
morning max el	2320 Dec 27 18:52	13°♊54'58	21°49'55	direct	2321 Dec 02 14:45	22°♊55'43	
	2321 Jan 09 14:35	0°♊		morning max el	2321 Dec 10 14:33	27°♊31'42	20°32'26
desc. node	2321 Jan 12 04:03	3°♊38'34			2321 Dec 12 21:24	0°♊	
morning set	2321 Jan 29 04:46	29°♊32'25		desc. node	2321 Dec 30 01:05	23°♊47'43	
	2321 Jan 29 11:40	0°♊			2322 Jan 03 03:33	0°♊	
max. Earth dist.	2321 Feb 04 07:55	9°♊32'38	1.41483 AU	morning set	2322 Jan 08 05:25	7°♊48'29	
				max. Earth dist.	2322 Jan 17 14:27	22°♊37'58	1.43292 AU
					2322 Jan 22 02:49	0°♊	
superior conj	2321 Feb 12 00:32	22°♋41'56	-2°04'02				
minimum elong	2321 Feb 12 02:19	22°♋49'45	2°04'00				
	2321 Feb 16 02:55	0°♋		superior conj	2322 Jan 24 00:16	3°♋08'30	-2°02'42
evening rise	2321 Feb 22 16:45	12°♋02'38		minimum elong	2322 Jan 23 21:10	2°♋55'35	2°02'36
asc. node	2321 Mar 03 01:11	27°♋01'43		evening rise	2322 Feb 05 06:47	24°♋14'04	
	2321 Mar 04 21:03	0°♋			2322 Feb 08 13:29	0°♋	
evening max el	2321 Mar 11 01:19	8°♋03'59	18°12'30	asc. node	2322 Feb 17 22:13	15°♋27'37	
retrograde	2321 Mar 17 23:29	11°♋32'42		evening max el	2322 Feb 22 13:16	21°♋12'19	18°07'52
evening set	2321 Mar 20 13:00	11°♋04'53		retrograde	2322 Mar 01 01:23	24°♋35'47	
inferior conj	2321 Mar 27 10:54	6°♋18'00	3°13'19	evening set	2322 Mar 03 20:14	23°♋57'42	
minimum elong	2321 Mar 27 13:57	6°♋11'10	3°12'48	inferior conj	2322 Mar 10 04:34	18°♋50'02	3°38'21
min. Earth dist.	2321 Mar 30 19:42	3°♋18'31	0.59985 AU	minimum elong	2322 Mar 10 05:41	18°♋47'09	3°38'16
morning rise	2321 Apr 03 12:38	0°♋34'26		min. Earth dist.	2322 Mar 13 02:44	15°♋51'12	0.62113 AU
	2321 Apr 04 13:13	30°♋		morning rise	2322 Mar 16 13:49	12°♋51'35	
direct	2321 Apr 10 01:39	28°♋34'19		direct	2322 Mar 23 11:30	10°♋21'15	
desc. node	2321 Apr 10 03:14	28°♋34'20		desc. node	2322 Mar 28 00:17	11°♋19'04	
	2321 Apr 15 19:55	0°♋		morning max el	2322 Apr 06 13:30	18°♋16'50	27°50'08
morning max el	2321 Apr 24 08:58	6°♋24'09	27°30'11		2322 Apr 16 09:49	0°♋	
	2321 May 12 01:26	0°♋			2322 May 04 20:12	0°♋	
morning set	2321 May 25 23:12	25°♋54'13		morning set	2322 May 10 01:58	10°♋17'05	
	2321 May 27 21:58	0°♋		max. Earth dist.	2322 May 15 18:48	22°♋15'56	1.32504 AU
asc. node	2321 May 30 00:27	4°♋31'08		asc. node	2322 May 16 21:30	24°♋40'17	
max. Earth dist.	2321 Jun 01 09:34	9°♋42'48	1.32172 AU				
				superior conj	2322 May 17 13:10	26°♋05'25	0°06'54
superior conj	2321 Jun 02 03:20	11°♋20'28	0°32'27	minimum elong	2322 May 17 12:50	26°♋03'38	0°06'49
minimum elong	2321 Jun 02 01:56	11°♋12'47	0°32'08	behind sun begin	2322 May 17 08:09	25°♋38'10	
evening rise	2321 Jun 08 23:45	26°♋14'51		behind sun end	2322 May 17 17:31	26°♋29'08	
	2321 Jun 10 18:45	0°♋			2322 May 19 08:11	0°♋	
	2321 Jun 28 01:24	0°♋		evening rise	2322 May 24 11:25	11°♋06'34	
evening max el	2321 Jul 06 18:03	10°♋11'09	25°44'53		2322 Jun 03 03:04	0°♋	
desc. node	2321 Jul 07 02:28	10°♋31'01		evening max el	2322 Jun 18 08:44	20°♋54'50	24°17'12
retrograde	2321 Jul 20 18:11	17°♋19'47		desc. node	2322 Jun 23 23:31	25°♋20'55	
evening set	2321 Jul 26 19:18	15°♋53'09		retrograde	2322 Jul 02 05:03	27°♋53'58	
min. Earth dist.	2321 Jul 31 06:20	13°♋14'35	0.58464 AU	evening set	2322 Jul 06 21:49	27°♋04'47	
inferior conj	2321 Aug 03 11:56	10°♋55'00	-4°59'08	min. Earth dist.	2322 Jul 12 19:33	24°♋08'23	0.56619 AU
minimum elong	2321 Aug 03 13:19	10°♋52'30	4°59'04	inferior conj	2322 Jul 15 10:36	22°♋29'28	-4°49'08
morning rise	2321 Aug 11 09:36	6°♋33'05		minimum elong	2322 Jul 15 06:35	22°♋35'49	4°48'44
direct	2321 Aug 13 21:41	6°♋12'58		morning rise	2322 Jul 23 18:03	18°♋27'57	
morning max el	2321 Aug 22 04:11	10°♋08'55	18°41'26	direct	2322 Jul 26 10:18	18°♋08'49	
asc. node	2321 Aug 25 23:42	14°♋31'21		morning max el	2322 Aug 05 00:52	22°♋36'37	19°37'49
	2321 Sep 04 06:37	0°♋			2322 Aug 11 03:34	0°♋	
morning set	2321 Sep 07 12:10	6°♋13'04		asc. node	2322 Aug 12 20:44	2°♋38'00	
				morning set	2322 Aug 22 14:08	20°♋39'02	
					2322 Aug 27 05:12	0°♋	
superior conj	2321 Sep 16 04:40	22°♌59'30	1°37'20				
minimum elong	2321 Sep 16 07:15	23°♌11'40	1°37'09				
	2321 Sep 19 23:27	0°♌		superior conj	2322 Aug 30 12:55	6°♌38'00	1°44'53
max. Earth dist.	2321 Sep 23 08:48	6°♌04'12	1.39576 AU	minimum elong	2322 Aug 30 13:38	6°♌41'34	1°44'52
evening rise	2321 Sep 27 10:09	13°♌04'18		max. Earth dist.	2322 Sep 05 13:03	18°♌09'52	1.37532 AU
desc. node	2321 Oct 03 01:47	22°♌22'30		evening rise	2322 Sep 09 07:30	25°♌01'53	
	2321 Oct 07 22:37	0°♌			2322 Sep 12 03:28	0°♌	
	2321 Oct 30 02:55	0°♌		desc. node	2322 Sep 19 22:49	12°♌53'17	
evening max el	2321 Nov 01 14:00	2°♌34'45	24°04'47		2322 Oct 01 13:25	0°♌	
retrograde	2321 Nov 12 14:56	9°♌03'39		evening max el	2322 Oct 15 02:04	16°♌14'30	25°20'20
evening set	2321 Nov 17 21:28	6°♌51'43		retrograde	2322 Oct 27 02:28	23°♌10'08	
asc. node	2321 Nov 21 22:56	2°♌18'05		evening set	2322 Nov 01 23:15	20°♌42'43	






















































































































min. Earth dist.	2322 Nov 06 09:45	15° \mathbb{M} 46'56	0.67173 AU		2323 Sep 27 16:48	0° \mathbb{M}	
inferior conj	2322 Nov 07 12:22	14° \mathbb{M} 20'45	-0°27'13	retrograde	2323 Oct 10 09:07	7° \mathbb{M} 05'35	
minimum elong	2322 Nov 07 13:04	14° \mathbb{M} 18'29	0°26'55	evening set	2323 Oct 16 19:31	4° \mathbb{M} 26'38	
asc. node	2322 Nov 08 19:59	12° \mathbb{M} 39'52		min. Earth dist.	2323 Oct 20 22:42	0° \mathbb{M} 06'52	0.66314 AU
morning rise	2322 Nov 13 03:06	8° \mathbb{M} 23'32			2323 Oct 21 00:59	30° \mathbb{R} $\underline{\mathbb{A}}$	
direct	2322 Nov 16 13:13	7° \mathbb{M} 16'00		inferior conj	2323 Oct 22 12:45	28° $\underline{\mathbb{A}}$ 11'04	-1°25'17
morning max el	2322 Nov 23 18:13	11° \mathbb{M} 19'45	19°28'12	minimum elong	2323 Oct 22 15:01	28° $\underline{\mathbb{A}}$ 04'08	1°24'20
greatest brilliancy	2322 Dec 07 03:50	29° \mathbb{M} 16'34	-0.7m	asc. node	2323 Oct 26 17:02	23° $\underline{\mathbb{A}}$ 39'06	
	2322 Dec 07 15:23	0° \mathbb{A}		morning rise	2323 Oct 28 11:04	22° $\underline{\mathbb{A}}$ 23'59	
desc. node	2322 Dec 16 22:07	14° \mathbb{A} 12'58		direct	2323 Oct 31 11:20	21° $\underline{\mathbb{A}}$ 32'39	
morning set	2322 Dec 18 03:45	16° \mathbb{A} 07'37		morning max el	2323 Nov 07 04:35	25° $\underline{\mathbb{A}}$ 14'52	18°39'22
	2322 Dec 27 01:31	0° \mathbb{B}			2323 Nov 11 05:20	0° \mathbb{M}	
max. Earth dist.	2322 Dec 31 04:02	6° \mathbb{B} 27'52	1.44556 AU	morning set	2323 Nov 27 22:54	25° \mathbb{M} 33'42	
					2323 Nov 30 18:02	0° \mathbb{A}	
superior conj	2323 Jan 03 21:53	12° \mathbb{B} 25'11	-1°43'10	desc. node	2323 Dec 03 19:08	4° \mathbb{A} 49'06	
minimum elong	2323 Jan 03 13:45	11° \mathbb{B} 52'41	1°42'30				
	2323 Jan 14 16:58	0° \approx		superior conj	2323 Dec 14 01:28	20° \mathbb{A} 57'42	-1°05'22
evening rise	2323 Jan 18 00:40	5° \approx 31'54		minimum elong	2323 Dec 13 17:34	20° \mathbb{A} 26'42	1°04'25
	2323 Feb 02 06:58	0° \mathbb{H}		max. Earth dist.	2323 Dec 13 21:39	20° \mathbb{A} 42'46	1.45137 AU
asc. node	2323 Feb 04 19:17	3° \mathbb{H} 10'16			2323 Dec 19 19:25	0° \mathbb{B}	
evening max el	2323 Feb 06 01:47	4° \mathbb{H} 32'48	18°22'10	evening rise	2323 Dec 29 19:19	15° \mathbb{B} 51'39	
retrograde	2323 Feb 12 13:28	8° \mathbb{H} 04'08		greatest brilliancy	2324 Jan 06 20:13	28° \mathbb{B} 41'48	-0.8m
evening set	2323 Feb 15 13:36	7° \mathbb{H} 15'00			2324 Jan 07 15:59	0° \approx	
inferior conj	2323 Feb 21 12:03	1° \mathbb{H} 48'16	3°41'26	evening max el	2324 Jan 20 12:22	17° \approx 59'25	18°54'27
minimum elong	2323 Feb 21 11:23	1° \mathbb{H} 50'09	3°41'24	asc. node	2324 Jan 22 16:21	19° \approx 56'34	
	2323 Feb 23 01:45	30° \mathbb{R} \approx		retrograde	2324 Jan 27 07:40	21° \approx 49'35	
min. Earth dist.	2323 Feb 23 19:25	29° \approx 10'16	0.64015 AU	evening set	2324 Jan 30 13:52	20° \approx 48'24	
morning rise	2323 Feb 27 08:29	25° \approx 41'20		inferior conj	2324 Feb 05 05:32	15° \approx 04'39	3°28'20
direct	2323 Mar 06 05:37	22° \approx 53'23		minimum elong	2324 Feb 05 03:38	15° \approx 10'33	3°28'03
desc. node	2323 Mar 14 21:19	26° \approx 22'43		min. Earth dist.	2324 Feb 06 21:27	13° \approx 00'28	0.65563 AU
	2323 Mar 19 02:53	0° \mathbb{H}		morning rise	2324 Feb 10 17:02	8° \approx 53'24	
morning max el	2323 Mar 19 22:15	0° \mathbb{H} 47'36	27°33'14	direct	2324 Feb 17 06:42	6° \approx 02'02	
	2323 Apr 10 11:25	0° \mathbb{Y}		desc. node	2324 Feb 29 18:21	13° \approx 09'19	
morning set	2323 Apr 23 21:18	24° \mathbb{Y} 14'34		morning max el	2324 Mar 01 08:08	13° \approx 43'35	26°44'35
	2323 Apr 26 18:02	0° \mathbb{B}			2324 Mar 14 13:05	0° \mathbb{H}	
max. Earth dist.	2323 Apr 28 21:11	4° \mathbb{B} 24'20	1.33256 AU		2324 Apr 02 03:40	0° \mathbb{Y}	
				morning set	2324 Apr 06 05:52	7° \mathbb{Y} 36'02	
superior conj	2323 May 01 19:25	10° \mathbb{B} 35'21	-0°20'33	max. Earth dist.	2324 Apr 10 12:54	15° \mathbb{Y} 58'32	1.34456 AU
minimum elong	2323 May 01 20:26	10° \mathbb{B} 40'49	0°20'19				
asc. node	2323 May 03 18:34	14° \mathbb{B} 47'54		superior conj	2324 Apr 14 19:56	24° \mathbb{Y} 43'26	-0°48'43
evening rise	2323 May 08 23:00	25° \mathbb{B} 53'39		minimum elong	2324 Apr 14 22:25	24° \mathbb{Y} 56'19	0°48'13
	2323 May 10 22:16	0° \mathbb{II}			2324 Apr 17 08:34	0° \mathbb{B}	
	2323 May 29 14:29	0° \mathbb{E}		asc. node	2324 Apr 19 15:38	4° \mathbb{B} 49'34	
evening max el	2323 May 30 22:59	1° \mathbb{E} 22'25	22°40'51	evening rise	2324 Apr 22 08:35	10° \mathbb{B} 29'30	
desc. node	2323 Jun 10 20:33	7° \mathbb{E} 44'05			2324 May 02 15:22	0° \mathbb{II}	
retrograde	2323 Jun 13 03:50	7° \mathbb{E} 56'13		evening max el	2324 May 11 20:34	12° \mathbb{II} 06'38	21°10'31
evening set	2323 Jun 16 09:07	7° \mathbb{E} 33'24		retrograde	2324 May 23 17:39	17° \mathbb{II} 54'40	
min. Earth dist.	2323 Jun 24 06:59	4° \mathbb{E} 05'30	0.55329 AU	evening set	2324 May 25 23:40	17° \mathbb{II} 42'55	
inferior conj	2323 Jun 25 14:39	3° \mathbb{E} 20'15	-3°52'38	desc. node	2324 May 27 17:33	17° \mathbb{II} 18'34	
minimum elong	2323 Jun 25 06:46	3° \mathbb{E} 31'32	3°50'43	inferior conj	2324 Jun 04 08:42	13° \mathbb{II} 44'18	-2°11'37
	2323 Jul 02 10:09	30° \mathbb{R} \mathbb{II}		minimum elong	2324 Jun 04 02:39	13° \mathbb{II} 52'50	2°09'31
morning rise	2323 Jul 04 06:41	29° \mathbb{II} 28'37		min. Earth dist.	2324 Jun 04 19:12	13° \mathbb{II} 29'31	0.54889 AU
direct	2323 Jul 07 04:37	29° \mathbb{II} 09'01		morning rise	2324 Jun 13 05:49	9° \mathbb{II} 44'07	
	2323 Jul 11 17:59	0° \mathbb{E}		direct	2324 Jun 16 14:21	9° \mathbb{II} 19'44	
morning max el	2323 Jul 18 10:16	4° \mathbb{E} 21'49	20°55'04	morning max el	2324 Jun 29 08:52	15° \mathbb{II} 24'34	22°29'17
asc. node	2323 Jul 30 17:47	21° \mathbb{E} 24'32			2324 Jul 10 15:50	0° \mathbb{E}	
	2323 Aug 04 06:07	0° \mathbb{Q}		asc. node	2324 Jul 16 14:50	10° \mathbb{E} 41'22	
morning set	2323 Aug 06 21:18	5° \mathbb{Q} 20'41		morning set	2324 Jul 21 07:40	20° \mathbb{E} 12'30	
					2324 Jul 25 22:18	0° \mathbb{Q}	
superior conj	2323 Aug 14 08:19	20° \mathbb{Q} 50'08	1°44'15				
minimum elong	2323 Aug 14 07:30	20° \mathbb{Q} 45'54	1°44'14	superior conj	2324 Jul 28 11:24	5° \mathbb{Q} 25'29	1°36'57
	2323 Aug 18 21:31	0° \mathbb{M}		minimum elong	2324 Jul 28 09:33	5° \mathbb{Q} 15'40	1°36'49
max. Earth dist.	2323 Aug 18 21:31	0° \mathbb{M} 00'00	1.35695 AU	max. Earth dist.	2324 Jul 31 14:39	11° \mathbb{Q} 59'44	1.34212 AU
evening rise	2323 Aug 23 00:34	7° \mathbb{M} 55'54		evening rise	2324 Aug 05 08:49	21° \mathbb{Q} 34'34	
	2323 Sep 04 19:30	0° $\underline{\mathbb{A}}$			2324 Aug 09 19:23	0° \mathbb{M}	
desc. node	2323 Sep 06 19:52	3° $\underline{\mathbb{A}}$ 08'42		desc. node	2324 Aug 23 16:53	23° \mathbb{M} 01'52	
evening max el	2323 Sep 27 14:06	29° $\underline{\mathbb{A}}$ 53'29	26°24'02		2324 Aug 28 15:02	0° $\underline{\mathbb{A}}$	

































































































































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retrograde	2324 Sep 22 10:15	20° Ω 42'50			2325 Aug 02 09:52	0° Π	
evening set	2324 Sep 29 07:55	17° Ω 59'31		desc. node	2325 Aug 10 13:54	12° Π 22'29	
min. Earth dist.	2324 Oct 03 04:30	14° Ω 15'43	0.65105 AU	evening max el	2325 Aug 22 13:27	26° Π 35'20	27°26'04
inferior conj	2324 Oct 05 06:45	11° Ω 54'52	-2°24'12		2325 Aug 26 13:55	0° Ω	
minimum elong	2324 Oct 05 10:37	11° Ω 43'58	2°22'45	retrograde	2325 Sep 05 05:05	3° Ω 52'35	
morning rise	2324 Oct 11 14:12	6° Ω 20'55		evening set	2325 Sep 12 09:25	1° Ω 14'48	
asc. node	2324 Oct 12 14:03	5° Ω 57'34			2325 Sep 13 23:00	30° κ Π	
direct	2324 Oct 14 07:03	5° Ω 41'51		min. Earth dist.	2325 Sep 16 01:00	28° Π 04'09	0.63552 AU
morning max el	2324 Oct 20 19:17	9° Ω 11'41	18°07'07	inferior conj	2325 Sep 18 15:45	25° Π 25'27	-3°21'15
	2324 Nov 04 01:44	0° Π		minimum elong	2325 Sep 18 20:52	25° Π 12'26	3°19'39
morning set	2324 Nov 07 23:24	6° Π 27'44		morning rise	2325 Sep 25 09:33	20° Π 08'02	
desc. node	2324 Nov 19 16:11	25° Π 32'33		direct	2325 Sep 27 21:35	19° Π 37'39	
				asc. node	2325 Sep 29 11:05	19° Π 49'44	
superior conj	2324 Nov 22 06:39	29° Π 41'42	-0°17'29	morning max el	2325 Oct 04 11:30	23° Π 03'15	17°52'15
minimum elong	2324 Nov 22 04:27	29° Π 32'55	0°17'11		2325 Oct 09 22:37	0° Ω	
	2324 Nov 22 11:16	0° κ		morning set	2325 Oct 21 01:46	18° Ω 36'27	
max. Earth dist.	2324 Nov 25 16:35	5° κ 05'48	1.44982 AU		2325 Oct 27 16:36	0° Π	
evening rise	2324 Dec 08 16:18	25° κ 21'11		superior conj	2325 Nov 02 08:07	9° Π 27'07	0°28'26
	2324 Dec 11 16:22	0° Σ		minimum elong	2325 Nov 02 11:02	9° Π 39'08	0°28'02
greatest brilliancy	2324 Dec 21 18:17	15° Σ 24'50	-0.7m	desc. node	2325 Nov 06 13:12	16° Π 19'22	
	2325 Jan 01 10:07	0° \approx		max. Earth dist.	2325 Nov 08 10:09	19° Π 19'55	1.44111 AU
evening max el	2325 Jan 02 19:02	1° \approx 29'16	19°43'10		2325 Nov 15 04:30	0° κ	
asc. node	2325 Jan 08 13:21	5° \approx 32'25		evening rise	2325 Nov 18 01:17	4° κ 26'12	
retrograde	2325 Jan 10 04:52	5° \approx 47'18			2325 Dec 05 03:40	0° Σ	
evening set	2325 Jan 13 18:33	4° \approx 32'43		evening max el	2325 Dec 16 20:26	15° Σ 00'19	20°46'04
	2325 Jan 18 03:42	30° κ Σ		retrograde	2325 Dec 25 02:44	19° Σ 53'22	
inferior conj	2325 Jan 19 05:54	28° Σ 34'22	3°03'06	asc. node	2325 Dec 26 10:21	19° Σ 43'42	
minimum elong	2325 Jan 19 03:24	28° Σ 42'40	3°02'31	evening set	2325 Dec 29 01:38	18° Σ 23'54	
min. Earth dist.	2325 Jan 20 07:24	27° Σ 10'08	0.66710 AU	inferior conj	2326 Jan 03 10:40	12° Σ 13'42	2°28'31
morning rise	2325 Jan 24 12:00	22° Σ 21'18		minimum elong	2326 Jan 03 08:06	12° Σ 22'30	2°27'43
direct	2325 Jan 30 13:38	19° Σ 39'01		min. Earth dist.	2326 Jan 03 23:13	11° Σ 30'44	0.67449 AU
morning max el	2325 Feb 11 17:08	26° Σ 53'05	25°32'38	morning rise	2326 Jan 08 14:23	6° Σ 00'39	
	2325 Feb 14 14:58	0° \approx		direct	2326 Jan 14 01:34	3° Σ 36'02	
desc. node	2325 Feb 15 15:24	1° \approx 09'53		morning max el	2326 Jan 25 01:30	10° Σ 09'29	24°07'30
	2325 Mar 08 04:10	0° κ		desc. node	2326 Feb 02 12:26	20° Σ 03'08	
morning set	2325 Mar 19 23:11	20° κ 08'16			2326 Feb 09 19:02	0° \approx	
max. Earth dist.	2325 Mar 23 16:54	27° κ 04'41	1.36113 AU		2326 Feb 28 21:16	0° κ	
	2325 Mar 25 05:39	0° Υ		morning set	2326 Mar 01 19:29	1° κ 35'41	
superior conj	2325 Mar 29 12:01	8° Υ 22'02	-1°16'04	max. Earth dist.	2326 Mar 05 13:16	8° κ 10'46	1.38130 AU
minimum elong	2325 Mar 29 15:47	8° Υ 40'54	1°15'27	superior conj	2326 Mar 12 16:14	21° κ 22'09	-1°40'19
evening rise	2325 Apr 06 14:02	24° Υ 47'40		minimum elong	2326 Mar 12 20:36	21° κ 43'01	1°39'50
asc. node	2325 Apr 06 12:40	24° Υ 40'45			2326 Mar 17 03:05	0° Υ	
	2325 Apr 09 04:16	0° Σ		evening rise	2326 Mar 21 12:55	8° Υ 41'30	
evening max el	2325 Apr 24 05:40	23° Σ 26'58	19°55'25	asc. node	2326 Mar 24 09:42	14° Υ 16'47	
retrograde	2325 May 04 09:06	28° Σ 21'20			2326 Apr 02 13:02	0° Σ	
evening set	2325 May 06 09:22	28° Σ 10'38		evening max el	2326 Apr 07 02:00	5° Σ 27'01	18°59'34
desc. node	2325 May 14 14:35	24° Σ 35'02		retrograde	2326 Apr 15 15:03	9° Σ 36'02	
inferior conj	2325 May 15 06:53	24° Σ 10'20	-0°11'53	evening set	2326 Apr 17 19:04	9° Σ 21'07	
minimum elong	2325 May 15 06:20	24° Σ 11'10	0°11'41	inferior conj	2326 Apr 25 21:34	5° Σ 05'56	1°33'06
transit middle	2325 May 15 06:20	24° Σ 11'10	0°11'41	minimum elong	2326 Apr 26 00:53	5° Σ 00'06	1°32'02
transit begin	2325 May 15 03:38	24° Σ 15'17		min. Earth dist.	2326 Apr 29 00:16	2° Σ 55'46	0.56808 AU
transit end	2325 May 15 09:02	24° Σ 07'03		desc. node	2326 May 01 11:36	1° Σ 23'05	
min. Earth dist.	2325 May 17 08:40	22° Σ 54'47	0.55423 AU	morning rise	2326 May 04 03:37	0° Σ 04'55	
morning rise	2325 May 24 01:12	19° Σ 43'50			2326 May 04 08:37	30° κ Υ	
direct	2325 May 28 04:58	19° Σ 05'49		direct	2326 May 09 08:05	29° Υ 01'15	
morning max el	2325 Jun 11 00:21	25° Σ 56'40	24°11'30		2326 May 14 08:07	0° Σ	
	2325 Jun 14 20:31	0° Π		morning max el	2326 May 23 15:00	6° Σ 24'28	25°47'33
asc. node	2325 Jul 03 11:53	0° Θ 19'53			2326 Jun 09 22:02	0° Π	
	2325 Jul 03 07:59	0° Θ		morning set	2326 Jun 20 06:54	20° Π 03'01	
morning set	2325 Jul 05 19:24	5° Θ 08'17		asc. node	2326 Jun 20 08:57	20° Π 13'50	
					2326 Jun 24 21:34	0° Θ	
superior conj	2325 Jul 12 19:24	20° Θ 14'43	1°24'14	superior conj	2326 Jun 27 06:14	5° Θ 10'56	1°06'59
minimum elong	2325 Jul 12 17:04	20° Θ 02'00	1°23'56	minimum elong	2326 Jun 27 03:54	4° Θ 58'09	1°06'35
max. Earth dist.	2325 Jul 14 16:56	24° Θ 20'11	1.33135 AU				
	2325 Jul 17 09:01	0° Ω					

max. Earth dist.	2326 Jun 28 01:55	6°☿58'51	1.32459 AU		2327 Jun 16 06:14	0°☿	
evening rise	2326 Jul 04 06:58	20°☿17'36		evening rise	2327 Jun 18 14:58	5°☿03'07	
	2326 Jul 09 03:14	0°♊			2327 Jul 01 20:25	0°♊	
	2326 Jul 27 17:02	0°♋		desc. node	2327 Jul 15 07:55	18°♊26'49	
desc. node	2326 Jul 28 10:54	0°♋57'07		evening max el	2327 Jul 17 21:29	21°♊03'04	26°25'18
evening max el	2326 Aug 04 20:39	9°♋11'41	27°12'14	retrograde	2327 Jul 31 20:59	28°♊14'54	
retrograde	2326 Aug 18 16:56	16°♋25'57		evening set	2327 Aug 07 11:32	26°♊25'59	
evening set	2326 Aug 25 20:10	14°♋06'09		min. Earth dist.	2327 Aug 11 10:38	23°♊50'16	0.59640 AU
min. Earth dist.	2326 Aug 29 10:52	11°♋20'27	0.61693 AU	inferior conj	2327 Aug 14 18:00	21°♊15'19	-4°48'38
inferior conj	2326 Sep 01 12:40	8°♋35'15	-4°11'53	minimum elong	2327 Aug 14 21:36	21°♊08'14	4°48'13
minimum elong	2326 Sep 01 18:02	8°♋23'12	4°10'40	morning rise	2327 Aug 22 09:47	16°♊40'43	
morning rise	2326 Sep 08 17:30	3°♋37'59		direct	2327 Aug 24 20:18	16°♊19'32	
direct	2326 Sep 11 03:27	3°♋13'19		morning max el	2327 Sep 01 12:38	20°♊02'36	18°18'54
asc. node	2326 Sep 16 08:08	5°♋11'29		asc. node	2327 Sep 03 05:12	21°♊49'29	
morning max el	2326 Sep 18 02:19	6°♋42'49	17°55'46		2327 Sep 08 23:40	0°♋	
	2326 Oct 03 01:31	0°♌		morning set	2327 Sep 17 11:38	15°♋25'43	
morning set	2326 Oct 03 23:39	1°♌40'49			2327 Sep 25 04:47	0°♌	
superior conj	2326 Oct 14 12:42	20°♌32'22	1°04'30	superior conj	2327 Sep 26 17:44	2°♌50'00	1°28'34
minimum elong	2326 Oct 14 17:12	20°♌51'53	1°03'56	minimum elong	2327 Sep 26 21:20	3°♌06'25	1°28'14
	2326 Oct 20 02:18	0°♍		max. Earth dist.	2327 Oct 04 07:09	16°♌12'50	1.40742 AU
max. Earth dist.	2326 Oct 21 23:29	3°♍06'59	1.42634 AU	evening rise	2327 Oct 08 22:54	24°♌01'17	
desc. node	2326 Oct 24 10:12	7°♍06'19		desc. node	2327 Oct 11 07:13	27°♌50'20	
evening rise	2326 Oct 28 14:42	13°♍47'19			2327 Oct 12 15:36	0°♍	
	2326 Nov 08 05:14	0°♎			2327 Nov 02 03:03	0°♎	
evening max el	2326 Nov 29 16:09	28°♎31'41	21°59'36	evening max el	2327 Nov 12 07:16	12°♎05'31	23°18'57
	2326 Dec 01 04:38	0°♏		retrograde	2327 Nov 22 17:27	18°♎16'00	
retrograde	2326 Dec 08 23:24	4°♏03'54		evening set	2327 Nov 27 16:01	16°♎13'34	
evening set	2326 Dec 13 09:19	2°♏18'14		asc. node	2327 Nov 30 04:25	13°♎37'06	
asc. node	2326 Dec 13 07:23	2°♏22'07		min. Earth dist.	2327 Dec 02 15:25	10°♎23'44	0.67822 AU
	2326 Dec 15 16:31	30°♏♎		inferior conj	2327 Dec 03 01:12	9°♎50'08	0°58'10
inferior conj	2326 Dec 18 17:42	25°♎59'30	1°46'23	minimum elong	2327 Dec 02 23:53	9°♎54'40	0°57'38
minimum elong	2326 Dec 18 15:33	26°♎06'58	1°45'36	morning rise	2327 Dec 08 07:41	3°♎42'12	
min. Earth dist.	2326 Dec 18 18:39	25°♎56'11	0.67810 AU	direct	2327 Dec 12 13:19	2°♎02'29	
morning rise	2326 Dec 23 21:39	19°♎48'04		morning max el	2327 Dec 21 03:16	7°♎02'21	21°15'38
direct	2326 Dec 28 17:42	17°♎45'31		desc. node	2328 Jan 07 06:29	29°♎30'41	
morning max el	2327 Jan 07 11:44	23°♎31'28	22°39'01		2328 Jan 07 14:28	0°♏	
	2327 Jan 13 04:25	0°♏		morning set	2328 Jan 21 01:22	20°♏29'37	
desc. node	2327 Jan 20 09:27	9°♏33'26			2328 Jan 26 24:00	0°♐	
	2327 Feb 03 04:55	0°♐		max. Earth dist.	2328 Jan 28 10:52	2°♐22'20	1.42300 AU
morning set	2327 Feb 10 12:41	11°♐42'31		superior conj	2328 Feb 04 18:19	14°♐38'15	-2°05'27
max. Earth dist.	2327 Feb 15 09:18	19°♐50'17	1.40287 AU	minimum elong	2328 Feb 04 18:18	14°♐38'12	2°05'27
	2327 Feb 21 05:03	0°♑			2328 Feb 13 11:33	0°♑	
superior conj	2327 Feb 23 04:03	3°♑31'26	-1°58'15	evening rise	2328 Feb 16 01:51	4°♑41'21	
minimum elong	2327 Feb 23 07:28	3°♑46'56	1°58'04	asc. node	2328 Feb 26 03:46	22°♑17'28	
evening rise	2327 Mar 05 02:07	22°♑02'11			2328 Mar 02 18:53	0°♒	
	2327 Mar 09 08:05	0°♒		evening max el	2328 Mar 03 17:12	0°♒58'07	18°08'09
asc. node	2327 Mar 11 06:44	3°♒31'18		retrograde	2328 Mar 10 09:59	4°♒23'05	
evening max el	2327 Mar 21 06:54	18°♒00'04	18°23'53	evening set	2328 Mar 13 01:42	3°♒51'11	
retrograde	2327 Mar 28 16:03	21°♒39'09			2328 Mar 18 13:52	30°♒♑	
evening set	2327 Mar 31 02:02	21°♒16'46		inferior conj	2328 Mar 19 17:23	28°♑55'29	3°27'01
inferior conj	2327 Apr 07 09:30	16°♒41'42	2°46'12	minimum elong	2328 Mar 19 19:39	28°♑50'05	3°26'43
minimum elong	2327 Apr 07 13:17	16°♒33'53	2°45'19	min. Earth dist.	2328 Mar 22 22:36	25°♑53'04	0.60905 AU
min. Earth dist.	2327 Apr 10 20:05	13°♒53'16	0.58751 AU	morning rise	2328 Mar 26 11:42	23°♑04'15	
morning rise	2327 Apr 14 21:45	11°♒10'26		direct	2328 Apr 02 05:32	20°♑49'49	
desc. node	2327 Apr 18 08:39	9°♒50'23		desc. node	2328 Apr 04 05:42	21°♑01'05	
direct	2327 Apr 21 00:52	9°♒31'27		morning max el	2328 Apr 16 11:19	28°♑43'49	27°43'11
morning max el	2327 May 05 10:02	17°♒14'47	27°01'56		2328 Apr 17 17:15	0°♒	
	2327 May 15 23:07	0°♓			2328 May 08 18:47	0°♓	
	2327 Jun 02 08:07	0°♔		morning set	2328 May 18 22:25	19°♓24'32	
morning set	2327 Jun 04 16:31	4°♔50'28			2328 May 23 22:20	0°♔	
asc. node	2327 Jun 07 06:00	10°♔17'13		asc. node	2328 May 24 03:03	0°♔25'36	
				max. Earth dist.	2328 May 25 01:10	2°♔25'57	1.32263 AU
superior conj	2327 Jun 11 18:02	20°♔07'32	0°45'58	superior conj	2328 May 26 05:07	4°♔58'43	0°21'53
minimum elong	2327 Jun 11 16:10	19°♔57'19	0°45'36	minimum elong	2328 May 26 04:08	4°♔53'20	0°21'40
max. Earth dist.	2327 Jun 11 13:55	19°♔44'52	1.32165 AU				

evening rise	2328 Jun 02 01:53	19° Π 54'34		superior conj	2329 May 10 13:43	19° \mathcal{B} 38'49	-0°04'35
	2328 Jun 07 00:05	0° \mathfrak{E}		minimum elong	2329 May 10 13:57	19° \mathcal{B} 40'00	0°04'32
	2328 Jun 26 12:39	0° \mathcal{O}		behind sun begin	2329 May 10 08:54	19° \mathcal{B} 12'45	
evening max el	2328 Jun 28 15:15	2° \mathcal{O} 08'25	25°09'35	behind sun end	2329 May 10 18:59	20° \mathcal{B} 07'16	
desc. node	2328 Jul 01 04:58	4° \mathcal{O} 24'48		asc. node	2329 May 11 00:07	20° \mathcal{B} 34'58	
retrograde	2328 Jul 12 15:09	9° \mathcal{O} 15'00			2329 May 15 08:23	0° Π	
evening set	2328 Jul 18 03:28	8° \mathcal{O} 04'57		evening rise	2329 May 17 13:47	4° Π 45'37	
min. Earth dist.	2328 Jul 23 02:59	5° \mathcal{O} 20'29	0.57626 AU		2329 May 31 02:58	0° \mathfrak{E}	
inferior conj	2328 Jul 26 04:26	3° \mathcal{O} 15'59	-4°59'56	evening max el	2329 Jun 10 05:07	12° \mathfrak{E} 42'58	23°36'25
minimum elong	2328 Jul 26 03:39	3° \mathcal{O} 17'19	4°59'55	desc. node	2329 Jun 18 02:00	18° \mathfrak{E} 17'21	
	2328 Jul 31 15:16	30° $\mathcal{R}\mathfrak{E}$		retrograde	2329 Jun 23 20:52	19° \mathfrak{E} 33'20	
morning rise	2328 Aug 03 06:23	29° \mathfrak{E} 03'32		evening set	2329 Jun 27 21:49	18° \mathfrak{E} 57'32	
direct	2328 Aug 05 19:49	28° \mathfrak{E} 44'09		min. Earth dist.	2329 Jul 04 15:26	15° \mathfrak{E} 49'07	0.55983 AU
	2328 Aug 10 17:09	0° \mathcal{O}		inferior conj	2329 Jul 06 18:48	14° \mathfrak{E} 32'11	-4°31'20
morning max el	2328 Aug 14 15:11	2° \mathcal{O} 52'22	19°02'50	minimum elong	2329 Jul 06 12:38	14° \mathfrak{E} 41'28	4°30'19
asc. node	2328 Aug 20 02:16	9° \mathcal{O} 27'58		morning rise	2329 Jul 15 06:02	10° \mathfrak{E} 36'13	
morning set	2328 Aug 31 09:27	29° \mathcal{O} 39'09		direct	2329 Jul 18 00:25	10° \mathfrak{E} 17'06	
	2328 Aug 31 13:40	0° \mathcal{M}		morning max el	2329 Jul 28 07:13	15° \mathfrak{E} 03'07	20°08'08
				asc. node	2329 Aug 06 23:19	27° \mathfrak{E} 53'24	
superior conj	2328 Sep 08 17:36	16° \mathcal{M} 03'14	1°41'38		2329 Aug 08 04:40	0° \mathcal{O}	
minimum elong	2328 Sep 08 19:22	16° \mathcal{M} 11'49	1°41'34	morning set	2329 Aug 15 13:58	14° \mathcal{O} 13'01	
max. Earth dist.	2328 Sep 15 11:00	28° \mathcal{M} 35'32	1.38687 AU				
	2328 Sep 16 05:50	0° \mathfrak{A}		superior conj	2329 Aug 23 07:07	29° \mathcal{O} 57'40	1°45'30
evening rise	2328 Sep 19 07:07	5° \mathfrak{A} 22'06		minimum elong	2329 Aug 23 07:07	29° \mathcal{O} 57'43	1°45'31
desc. node	2328 Sep 27 04:15	18° \mathfrak{A} 27'10			2329 Aug 23 07:35	0° \mathcal{M}	
	2328 Oct 04 16:53	0° \mathcal{M}		max. Earth dist.	2329 Aug 28 16:26	10° \mathcal{M} 31'52	1.36720 AU
evening max el	2328 Oct 24 19:53	25° \mathcal{M} 43'09	24°38'00	evening rise	2329 Sep 01 13:31	17° \mathcal{M} 45'50	
	2328 Oct 29 20:59	0° \mathfrak{A}			2329 Sep 08 13:40	0° \mathfrak{A}	
retrograde	2328 Nov 05 07:38	2° \mathfrak{A} 25'15		desc. node	2329 Sep 14 01:18	8° \mathfrak{A} 52'15	
evening set	2328 Nov 10 20:04	0° \mathfrak{A} 06'36			2329 Sep 28 23:39	0° \mathcal{M}	
	2328 Nov 10 23:07	30° $\mathcal{R}\mathcal{M}$		evening max el	2329 Oct 07 08:03	9° \mathcal{M} 23'52	25°49'22
min. Earth dist.	2328 Nov 15 11:05	24° \mathcal{M} 50'23	0.67504 AU	retrograde	2329 Oct 19 17:03	16° \mathcal{M} 27'17	
inferior conj	2328 Nov 16 07:23	23° \mathcal{M} 42'46	0°05'05	evening set	2329 Oct 25 19:43	13° \mathcal{M} 54'40	
minimum elong	2328 Nov 16 07:15	23° \mathcal{M} 43'11	0°05'01	min. Earth dist.	2329 Oct 30 03:10	9° \mathcal{M} 13'51	0.66853 AU
transit middle	2328 Nov 16 07:15	23° \mathcal{M} 43'11	0°05'01	inferior conj	2329 Oct 31 10:26	7° \mathcal{M} 34'57	-0°51'36
transit begin	2328 Nov 16 04:38	23° \mathcal{M} 51'54		minimum elong	2329 Oct 31 11:47	7° \mathcal{M} 30'41	0°51'01
transit end	2328 Nov 16 09:52	23° \mathcal{M} 34'29		asc. node	2329 Nov 02 22:32	4° \mathcal{M} 33'22	
asc. node	2328 Nov 16 01:29	24° \mathcal{M} 02'27		morning rise	2329 Nov 06 04:10	1° \mathcal{M} 41'25	
morning rise	2328 Nov 21 18:31	17° \mathcal{M} 40'40		direct	2329 Nov 09 09:53	0° \mathcal{M} 41'05	
direct	2328 Nov 25 11:13	16° \mathcal{M} 22'09		morning max el	2329 Nov 16 08:55	4° \mathcal{M} 34'19	19°05'22
morning max el	2328 Dec 03 02:17	20° \mathcal{M} 43'32	20°03'17		2329 Dec 04 10:14	0° \mathfrak{A}	
	2328 Dec 10 16:17	0° \mathfrak{A}		morning set	2329 Dec 09 02:35	7° \mathfrak{A} 17'39	
desc. node	2328 Dec 24 03:30	19° \mathfrak{A} 46'56		desc. node	2329 Dec 11 00:32	10° \mathfrak{A} 16'57	
morning set	2328 Dec 29 21:37	28° \mathfrak{A} 36'24		max. Earth dist.	2329 Dec 23 11:40	29° \mathfrak{A} 48'15	1.44897 AU
	2328 Dec 30 19:14	0° \mathfrak{B}			2329 Dec 23 14:38	0° \mathfrak{B}	
max. Earth dist.	2329 Jan 09 19:57	15° \mathfrak{B} 45'40	1.43903 AU				
				superior conj	2329 Dec 25 18:49	3° \mathfrak{B} 25'55	-1°29'03
superior conj	2329 Jan 15 06:43	24° \mathfrak{B} 33'47	-1°56'49	minimum elong	2329 Dec 25 09:54	2° \mathfrak{B} 50'39	1°28'10
minimum elong	2329 Jan 15 01:12	24° \mathfrak{B} 11'16	1°56'31	evening rise	2330 Jan 09 15:49	27° \mathfrak{B} 22'08	
	2329 Jan 18 13:58	0° \mathfrak{A}			2330 Jan 11 06:20	0° \mathfrak{A}	
evening rise	2329 Jan 28 07:45	16° \mathfrak{A} 29'58		evening max el	2330 Jan 29 17:46	27° \mathfrak{A} 35'54	18°33'52
	2329 Feb 05 05:16	0° \mathfrak{H}		asc. node	2330 Jan 29 21:50	27° \mathfrak{A} 46'10	
asc. node	2329 Feb 12 00:48	10° \mathfrak{H} 26'12			2330 Feb 01 14:33	0° \mathfrak{H}	
evening max el	2329 Feb 15 05:46	14° \mathfrak{H} 12'30	18°11'47	retrograde	2330 Feb 05 07:35	1° \mathfrak{H} 13'38	
retrograde	2329 Feb 21 16:36	17° \mathfrak{H} 37'37		evening set	2330 Feb 08 10:17	0° \mathfrak{H} 19'20	
evening set	2329 Feb 24 13:40	16° \mathfrak{H} 54'59			2330 Feb 08 22:46	30° $\mathcal{R}\mathfrak{A}$	
inferior conj	2329 Mar 02 17:24	11° \mathfrak{H} 39'18	3°41'56	inferior conj	2330 Feb 14 05:30	24° \mathfrak{A} 45'07	3°37'34
minimum elong	2329 Mar 02 17:43	11° \mathfrak{H} 38'28	3°41'55	minimum elong	2330 Feb 14 04:14	24° \mathfrak{A} 48'52	3°37'27
min. Earth dist.	2329 Mar 05 09:40	8° \mathfrak{H} 47'02	0.62960 AU	min. Earth dist.	2330 Feb 16 06:12	22° \mathfrak{A} 20'34	0.64722 AU
morning rise	2329 Mar 08 20:44	5° \mathfrak{H} 36'45		morning rise	2330 Feb 19 21:41	18° \mathfrak{A} 36'18	
direct	2329 Mar 15 19:24	2° \mathfrak{H} 56'50		direct	2330 Feb 26 16:28	15° \mathfrak{A} 45'16	
desc. node	2329 Mar 22 02:44	4° \mathfrak{H} 48'55		desc. node	2330 Mar 08 23:45	20° \mathfrak{A} 39'50	
morning max el	2329 Mar 29 17:47	10° \mathfrak{H} 53'10	27°47'11	morning max el	2330 Mar 12 03:05	23° \mathfrak{A} 34'52	27°16'03
	2329 Apr 13 18:35	0° \mathcal{Y}			2330 Mar 17 20:54	0° \mathfrak{H}	
	2329 May 01 02:31	0° \mathcal{B}			2330 Apr 07 02:25	0° \mathcal{Y}	
morning set	2329 May 02 22:24	3° \mathcal{B} 38'08		morning set	2330 Apr 16 13:35	17° \mathcal{Y} 21'12	
max. Earth dist.	2329 May 08 07:50	14° \mathcal{B} 49'35	1.32768 AU	max. Earth dist.	2330 Apr 21 06:04	26° \mathcal{Y} 43'58	1.33711 AU

	2330 Apr 22 19:59	0°♄			2331 Mar 30 11:18	0°♅	
				morning set	2331 Mar 30 16:14	0°♅23'03	
superior conj	2330 Apr 24 17:48	4°♄00'11 -0°32'27		max. Earth dist.	2331 Apr 03 17:01	8°♅05'42	1.35110 AU
minimum elong	2330 Apr 24 19:27	4°♄08'51 0°32'07					
asc. node	2330 Apr 27 21:09	10°♄40'24		superior conj	2331 Apr 08 15:03	17°♅56'14 -1°00'31	
evening rise	2330 May 02 00:44	19°♄28'43		minimum elong	2331 Apr 08 18:08	18°♅11'58 0°59'57	
	2330 May 07 05:30	0°♄			2331 Apr 14 10:53	0°♄	
evening max el	2330 May 22 21:44	23°♄14'16 22°01'02		asc. node	2331 Apr 14 18:11	0°♄37'55	
retrograde	2330 Jun 04 14:29	29°♄30'05		evening rise	2331 Apr 16 08:49	3°♄57'45	
desc. node	2330 Jun 04 23:02	29°♄29'48			2331 May 01 06:24	0°♄	
evening set	2330 Jun 07 08:02	29°♄13'29		evening max el	2331 May 04 23:48	4°♄11'21 20°36'19	
min. Earth dist.	2330 Jun 16 02:43	25°♄28'33 0.55034 AU		retrograde	2331 May 16 03:37	9°♄37'00	
inferior conj	2330 Jun 16 17:06	25°♄08'24 -3°14'14		evening set	2331 May 18 05:25	9°♄26'29	
minimum elong	2330 Jun 16 09:14	25°♄19'26 3°11'56		desc. node	2331 May 22 20:01	7°♄57'00	
morning rise	2330 Jun 25 11:59	21°♄15'48		inferior conj	2331 May 27 10:59	5°♄28'40 -1°20'57	
direct	2330 Jun 28 13:53	20°♄54'45		minimum elong	2331 May 27 07:10	5°♄34'11 1°19'34	
morning max el	2330 Jul 10 11:38	26°♄28'57 21°33'22		min. Earth dist.	2331 May 28 15:05	4°♄48'12 0.55002 AU	
	2330 Jul 13 20:04	0°♄		morning rise	2331 Jun 05 08:09	1°♄19'25	
asc. node	2330 Jul 24 20:22	16°♄53'48		direct	2331 Jun 08 23:39	0°♄50'47	
morning set	2330 Jul 30 22:44	28°♄59'41		morning max el	2331 Jun 22 06:35	7°♄15'57 23°12'33	
	2330 Jul 31 10:20	0°♄			2331 Jul 08 10:05	0°♄	
				asc. node	2331 Jul 11 17:25	6°♄20'25	
superior conj	2330 Aug 07 06:09	14°♄20'27 1°41'53		morning set	2331 Jul 15 09:52	13°♄53'40	
minimum elong	2330 Aug 07 04:49	14°♄13'33 1°41'49					
max. Earth dist.	2330 Aug 11 04:39	22°♄25'06 1.35025 AU		superior conj	2331 Jul 22 11:36	29°♄02'24 1°32'10	
	2330 Aug 15 01:04	0°♄		minimum elong	2331 Jul 22 09:28	28°♄51'01 1°31'57	
evening rise	2330 Aug 15 13:35	1°♄00'01			2331 Jul 22 22:22	0°♄	
desc. node	2330 Aug 31 22:21	28°♄59'06		max. Earth dist.	2331 Jul 25 01:52	4°♄33'03 1.33706 AU	
	2330 Sep 01 14:30	0°♄		evening rise	2331 Jul 30 02:55	14°♄52'57	
evening max el	2330 Sep 19 20:24	23°♄00'56 26°45'36			2331 Aug 07 04:19	0°♄	
	2330 Sep 30 16:06	0°♄		desc. node	2331 Aug 18 19:22	18°♄39'37	
retrograde	2330 Oct 02 21:11	0°♄15'47			2331 Aug 27 09:24	0°♄	
	2330 Oct 05 00:13	30°♄♄		evening max el	2331 Sep 02 08:11	6°♄23'53 27°19'17	
evening set	2330 Oct 09 12:55	27°♄33'59		retrograde	2331 Sep 15 19:40	13°♄42'25	
min. Earth dist.	2330 Oct 13 13:15	23°♄29'45 0.65850 AU		evening set	2331 Sep 22 21:05	10°♄59'41	
inferior conj	2330 Oct 15 08:23	21°♄22'49 -1°50'18		min. Earth dist.	2331 Sep 26 15:08	7°♄30'57 0.64489 AU	
minimum elong	2330 Oct 15 11:21	21°♄14'04 1°49'07		inferior conj	2331 Sep 28 22:51	5°♄01'11 -2°48'54	
asc. node	2330 Oct 20 19:33	16°♄02'32		minimum elong	2331 Sep 29 03:20	4°♄49'06 2°47'19	
morning rise	2330 Oct 21 10:24	15°♄40'59			2331 Oct 04 14:18	30°♄♄	
direct	2330 Oct 24 07:19	14°♄55'12		morning rise	2331 Oct 05 10:38	29°♄34'11	
morning max el	2330 Oct 30 21:26	18°♄30'39 18°23'34		asc. node	2331 Oct 07 16:36	28°♄59'55	
	2330 Nov 08 13:04	0°♄		direct	2331 Oct 08 01:06	28°♄59'16	
morning set	2330 Nov 19 10:11	17°♄21'40			2331 Oct 11 11:49	0°♄	
	2330 Nov 27 07:20	0°♄		morning max el	2331 Oct 14 13:12	2°♄26'06 17°58'39	
desc. node	2330 Nov 27 21:35	0°♄56'39		morning set	2331 Oct 31 22:22	28°♄49'14	
					2331 Nov 01 15:08	0°♄	
superior conj	2330 Dec 04 20:16	11°♄55'13 -0°45'32					
minimum elong	2330 Dec 04 14:27	11°♄32'18 0°44'46		superior conj	2331 Nov 14 08:25	21°♄00'46 0°02'54	
max. Earth dist.	2330 Dec 06 06:52	14°♄11'07 1.45164 AU		minimum elong	2331 Nov 14 08:46	21°♄02'10 0°02'51	
	2330 Dec 16 08:54	0°♄		behind sun begin	2331 Nov 13 22:32	20°♄20'54	
evening rise	2330 Dec 21 00:42	7°♄19'01		behind sun end	2331 Nov 14 19:00	21°♄43'21	
greatest brilliancy	2330 Dec 31 10:24	23°♄37'10 -0.8m		desc. node	2331 Nov 14 18:38	21°♄41'50	
	2331 Jan 04 15:20	0°♄		max. Earth dist.	2331 Nov 19 01:33	28°♄32'16 1.44688 AU	
evening max el	2331 Jan 13 02:52	11°♄04'01 19°13'16			2331 Nov 19 23:45	0°♄	
asc. node	2331 Jan 16 18:51	14°♄04'21		evening rise	2331 Nov 30 14:51	16°♄33'25	
retrograde	2331 Jan 20 03:27	15°♄05'00			2331 Dec 09 09:59	0°♄	
evening set	2331 Jan 23 12:43	13°♄58'06		greatest brilliancy	2331 Dec 14 23:43	8°♄19'49 -0.6m	
inferior conj	2331 Jan 29 02:14	8°♄07'34 3°18'54		evening max el	2331 Dec 27 07:16	24°♄33'36 20°08'21	
minimum elong	2331 Jan 29 00:00	8°♄14'42 3°18'31		asc. node	2332 Jan 03 15:53	29°♄05'30	
min. Earth dist.	2331 Jan 30 11:44	6°♄20'19 0.66098 AU		retrograde	2332 Jan 04 01:18	29°♄06'21	
morning rise	2331 Feb 03 11:02	1°♄55'22		evening set	2332 Jan 07 18:38	27°♄45'36	
	2331 Feb 06 04:57	30°♄♄		inferior conj	2332 Jan 13 04:45	21°♄41'36 2°49'26	
direct	2331 Feb 09 19:55	29°♄06'55		minimum elong	2332 Jan 13 02:09	21°♄50'21 2°48'45	
	2331 Feb 13 17:55	0°♄		min. Earth dist.	2332 Jan 14 00:31	20°♄35'02 0.67067 AU	
morning max el	2331 Feb 22 12:53	6°♄38'12 26°16'24		morning rise	2332 Jan 18 09:28	15°♄28'07	
desc. node	2331 Feb 23 20:46	8°♄00'49		direct	2332 Jan 24 04:59	12°♄52'40	
	2331 Mar 12 15:04	0°♄		morning max el	2332 Feb 04 21:38	19°♄51'30 24°57'27	

desc. node	2332 Feb 10 17:48	26°  25'39		desc. node	2333 Jan 27 14:51	15°  36'03	
	2332 Feb 13 13:50	0° 			2333 Feb 06 17:47	0° 	
	2332 Mar 04 18:43	0° 		morning set	2333 Feb 21 10:45	23°  23'37	
morning set	2332 Mar 12 01:21	12° 			2333 Feb 25 06:57	0° 	
max. Earth dist.	2332 Mar 15 16:57	19°  06'45	1.36934 AU	max. Earth dist.	2333 Feb 25 11:38	0°  20'28	1.39044 AU
	2332 Mar 21 10:24	0° 					
superior conj	2332 Mar 22 02:29	1°  18'41	-1°26'54	superior conj	2333 Mar 05 00:19	13°  58'15	-1°48'57
minimum elong	2332 Mar 22 06:38	1°  39'04	1°26'19	minimum elong	2333 Mar 05 04:31	14°  17'56	1°48'35
evening rise	2332 Mar 30 11:47	18° 			2333 Mar 13 09:07	0° 	
asc. node	2332 Mar 31 15:13	20° 		evening rise	2333 Mar 14 06:56	1° 	45'47
	2332 Apr 05 15:18	0° 		asc. node	2333 Mar 18 12:14	9° 	49'59
evening max el	2332 Apr 16 13:47	15°  47'57	19°29'13	evening max el	2333 Mar 30 14:14	28° 	03'05 18°41'59
retrograde	2332 Apr 26 00:16	20° 			2333 Apr 01 22:23	0° 	
evening set	2332 Apr 28 01:13	20° 		retrograde	2333 Apr 07 13:53	1° 	56'59
inferior conj	2332 May 06 15:03	16°  04'29	0°35'56	evening set	2333 Apr 09 20:26	1° 	39'13
minimum elong	2332 May 06 16:33	16° 	0°35'24		2333 Apr 13 15:34	30° 	
desc. node	2332 May 08 17:00	14° 		inferior conj	2333 Apr 17 14:35	27° 	16'17 2°08'19
min. Earth dist.	2332 May 09 05:35	14° 	0.55915 AU	minimum elong	2333 Apr 17 18:29	27° 	08'58 2°07'12
morning rise	2332 May 15 05:05	11° 		min. Earth dist.	2333 Apr 20 22:52	24° 	46'54 0.57585 AU
direct	2332 May 19 18:51	10° 		morning rise	2333 Apr 25 13:23	22° 	01'18
morning max el	2332 Jun 02 21:06	17°  42'55	24°54'09	desc. node	2333 Apr 25 14:03	22° 	00'33
	2332 Jun 12 23:46	0° 		direct	2333 May 01 04:25	20° 	42'56
asc. node	2332 Jun 27 14:28	26° 		morning max el	2333 May 15 12:59	28° 	16'36 26°22'42
morning set	2332 Jun 28 21:42	28° 			2333 May 17 05:48	0° 	
	2332 Jun 29 10:59	0° 			2333 Jun 06 12:03	0° 	
superior conj	2332 Jul 05 21:04	13° 	1°17'26	morning set	2333 Jun 13 08:35	13° 	41'35
minimum elong	2332 Jul 05 18:40	13° 	1°17'05	asc. node	2333 Jun 14 11:31	16° 	04'19
max. Earth dist.	2332 Jul 07 07:10	17° 	1.32791 AU	superior conj	2333 Jun 20 08:31	28° 	12'45 0°58'30
evening rise	2332 Jul 13 01:46	29° 		minimum elong	2333 Jun 20 06:20	28° 	40'45 0°58'06
	2332 Jul 13 10:47	0° 		max. Earth dist.	2333 Jun 20 17:45	29° 	43'30 1.32280 AU
	2332 Jul 30 07:04	0° 			2333 Jun 20 20:45	0° 	
desc. node	2332 Aug 04 16:22	7° 		evening rise	2333 Jun 27 07:09	13° 	53'00
evening max el	2332 Aug 14 17:48	19° 	27°24'13		2333 Jul 05 12:08	0° 	
retrograde	2332 Aug 28 12:01	26° 		desc. node	2333 Jul 22 13:23	25° 	52'50
evening set	2332 Sep 04 16:56	24° 			2333 Jul 26 06:09	0° 	
min. Earth dist.	2332 Sep 08 07:16	21° 	0.62790 AU	evening max el	2333 Jul 27 22:44	1° 	40'21 26°56'23
inferior conj	2332 Sep 11 03:10	18° 	-3°43'54	retrograde	2333 Aug 10 20:54	8° 	53'34
minimum elong	2332 Sep 11 08:34	18° 	3°42'23	evening set	2333 Aug 17 20:05	6° 	45'47
morning rise	2332 Sep 18 01:39	13° 		min. Earth dist.	2333 Aug 21 12:58	4° 	06'10 0.60828 AU
direct	2332 Sep 20 12:20	12° 		inferior conj	2333 Aug 24 17:57	1° 	23'08 -4°29'46
asc. node	2332 Sep 23 13:39	13° 		minimum elong	2333 Aug 24 22:52	1° 	12'40 4°28'53
morning max el	2332 Sep 27 05:19	16° 	17°51'25		2333 Aug 26 09:52	30° 	
	2332 Oct 06 21:39	0° 		morning rise	2333 Sep 01 03:28	26° 	53'45
morning set	2332 Oct 13 09:52	11° 		direct	2333 Sep 03 13:14	26° 	51'20
	2332 Oct 24 02:20	0° 		asc. node	2333 Sep 10 10:43	29° 	52'47
superior conj	2332 Oct 24 21:27	1° 	0°45'10	morning max el	2333 Sep 10 18:36	29° 	46'31 18°03'04
minimum elong	2332 Oct 25 01:28	1° 	0°44'36		2333 Sep 11 00:05	0° 	
max. Earth dist.	2332 Oct 31 17:05	12° 	1.43545 AU	morning set	2333 Sep 26 14:25	24° 	47'39
desc. node	2332 Oct 31 15:40	12° 			2333 Sep 29 09:44	0° 	
evening rise	2332 Nov 08 23:37	25° 		superior conj	2333 Oct 06 13:04	12° 	58'18 1°16'08
	2332 Nov 11 19:07	0° 		minimum elong	2333 Oct 06 17:23	13° 	51'28 1°15'39
	2332 Dec 02 11:19	0° 		max. Earth dist.	2333 Oct 14 03:56	26° 	50'23 1.41874 AU
evening max el	2332 Dec 09 06:12	8° 	21°16'18		2333 Oct 16 12:38	0° 	
retrograde	2332 Dec 17 22:55	13° 		desc. node	2333 Oct 18 12:42	3° 	15'33
asc. node	2332 Dec 20 12:54	12° 		evening rise	2333 Oct 19 19:53	5° 	20'54
evening set	2332 Dec 22 02:11	11° 			2333 Nov 05 02:13	0° 	
inferior conj	2332 Dec 27 10:45	5° 	2°11'28	evening max el	2333 Nov 21 23:56	21° 	37'21 22°33'02
minimum elong	2332 Dec 27 08:19	5° 	2°10'39	retrograde	2333 Dec 01 18:33	27° 	25'50
min. Earth dist.	2332 Dec 27 18:18	4° 	0.67648 AU	evening set	2333 Dec 06 09:39	25° 	33'15
	2332 Dec 31 17:47	30°		asc. node	2333 Dec 07 09:56	24°	37'59
morning rise	2333 Jan 01 14:15	29°		inferior conj	2333 Dec 11 18:15	19°	12'16 1°26'38
direct	2333 Jan 06 18:59	26°		minimum elong	2333 Dec 11 16:24	19°	18'40 1°25'54
	2333 Jan 13 18:37	0°		min. Earth dist.	2333 Dec 11 14:38	19°	24'45 0.67863 AU
morning max el	2333 Jan 17 06:19	3°	23°29'33	morning rise	2333 Dec 16 23:00	13°	02'02
				direct	2333 Dec 21 12:53	11°	09'01

morning max el	2333 Dec 30 18:16	16°  34'23	22°02'23	morning max el	2334 Dec 13 12:51	0°  09'32	20°43'14
	2334 Jan 10 16:48	0° 		desc. node	2335 Jan 01 08:57	25°  25'08	
desc. node	2334 Jan 14 11:54	5°  19'02			2335 Jan 04 10:08	0° 	
	2334 Jan 30 19:47	0° 		morning set	2335 Jan 11 18:35	11°  16'37	
morning set	2334 Feb 01 15:24	2°  54'34		max. Earth dist.	2335 Jan 20 14:55	25°  18'47	1.43051 AU
max. Earth dist.	2334 Feb 07 09:31	12°  21'23	1.41181 AU		2335 Jan 23 11:50	0° 	
superior conj	2334 Feb 15 03:41	25°  43'05	-2°02'56	superior conj	2335 Jan 27 07:16	6°  19'52	-2°04'00
minimum elong	2334 Feb 15 05:59	25°  53'16	2°02'51	minimum elong	2335 Jan 27 05:02	6°  10'28	2°03'57
	2334 Feb 17 13:13	0° 		evening rise	2335 Feb 08 07:36	27°  08'43	
evening rise	2334 Feb 25 14:55	14°  50'01			2335 Feb 09 22:15	0° 	
asc. node	2334 Mar 05 09:17	28°  53'32		asc. node	2335 Feb 20 06:19	17°  24'48	
	2334 Mar 06 01:01	0° 		evening max el	2335 Feb 25 09:31	23°  54'06	18°07'20
evening max el	2334 Mar 13 21:56	10°  48'36	18°14'50	retrograde	2335 Mar 03 22:35	27°  17'39	
retrograde	2334 Mar 20 22:31	14°  19'28		evening set	2335 Mar 06 16:36	26°  41'13	
evening set	2334 Mar 23 11:11	13°  53'03		inferior conj	2335 Mar 13 02:42	21°  36'32	3°36'05
inferior conj	2334 Mar 30 11:26	9°  09'06	3°07'08	minimum elong	2335 Mar 13 04:07	21°  32'56	3°35'58
minimum elong	2334 Mar 30 14:43	9°  01'53	3°06'31	min. Earth dist.	2335 Mar 16 02:49	18°  36'05	0.61804 AU
min. Earth dist.	2334 Apr 02 21:00	6°  11'49	0.59664 AU	morning rise	2335 Mar 19 14:11	15°  39'36	
morning rise	2334 Apr 06 15:53	3°  28'29		direct	2335 Mar 26 11:06	13°  13'08	
desc. node	2334 Apr 12 11:05	1°  34'58		desc. node	2335 Mar 30 08:07	13°  55'23	
direct	2334 Apr 13 02:38	1°  33'49		morning max el	2335 Apr 09 14:18	21°  08'35	27°49'33
morning max el	2334 Apr 27 10:28	9°  21'50	27°24'00		2335 Apr 17 06:53	0° 	
	2334 May 13 06:14	0° 			2335 May 06 06:33	0° 	
morning set	2334 May 28 16:52	28°  24'04		morning set	2335 May 12 20:31	12°  50'01	
	2334 May 29 11:12	0° 		max. Earth dist.	2335 May 18 15:59	25°  05'25	1.32431 AU
asc. node	2334 Jun 01 08:35	6°  10'23		asc. node	2335 May 19 05:38	26°  19'21	
superior conj	2334 Jun 04 20:14	13°  11'45	0°36'06	superior conj	2335 May 20 06:26	28°  34'19	0°10'54
minimum elong	2334 Jun 04 18:42	13°  39'19	0°35'47	minimum elong	2335 May 20 05:56	28°  31'32	0°10'48
max. Earth dist.	2334 Jun 04 06:01	12°  29'34	1.32162 AU	behind sun begin	2335 May 20 02:09	28°  10'54	
evening rise	2334 Jun 11 16:40	28°  11'42'11		behind sun end	2335 May 20 09:43	28°  52'11	
	2334 Jun 12 07:26	0° 			2335 May 20 22:08	0° 	
	2334 Jun 29 00:17	0° 		evening rise	2335 May 27 04:13	13°  11'33'52	
desc. node	2334 Jul 09 10:23	12°  47'09			2335 Jun 04 10:47	0° 	
evening max el	2334 Jul 09 20:41	13°  11'59	25°56'09	evening max el	2335 Jun 21 11:57	24°  00'15	24°31'06
retrograde	2334 Jul 23 20:36	20°  12'16		desc. node	2335 Jun 26 07:24	27°  55'54	
evening set	2334 Jul 30 01:43	18°  48'43			2335 Jun 30 04:51	0° 	
min. Earth dist.	2334 Aug 03 09:07	16°  11'31	0.58767 AU	retrograde	2335 Jul 05 09:30	1°  01'55	
inferior conj	2334 Aug 06 15:35	13°  11'25	-4°57'22	evening set	2335 Jul 10 07:36	0° 	
minimum elong	2334 Aug 06 17:39	13°  43'37	4°57'15		2335 Jul 10 15:44	30°  15'45	
morning rise	2334 Aug 14 11:46	9°  22'15		min. Earth dist.	2335 Jul 15 22:57	27°  14'41	0.56864 AU
direct	2334 Aug 16 23:27	9°  01'51		inferior conj	2335 Jul 18 17:18	25°  28'35	-4°53'30
morning max el	2334 Aug 25 01:53	12°  53'58	18°34'56	minimum elong	2335 Jul 18 14:08	25°  33'41	4°53'14
asc. node	2334 Aug 28 07:47	16°  32'54		morning rise	2335 Jul 26 23:22	21°  24'38	
	2334 Sep 05 16:20	0° 		direct	2335 Jul 29 14:51	21°  20'52'29	
morning set	2334 Sep 10 07:02	8°  45'56		morning max el	2335 Aug 08 00:10	25°  27'42	19°28'08
					2335 Aug 12 01:05	0° 	
superior conj	2334 Sep 19 02:46	25°  41'12	1°35'21	asc. node	2335 Aug 15 04:51	4°  32'32	
minimum elong	2334 Sep 19 05:38	25°  45'35	1°35'09	morning set	2335 Aug 25 08:00	23°  08'52	
	2334 Sep 21 10:42	0° 			2335 Aug 28 17:46	0° 	
max. Earth dist.	2334 Sep 26 10:02	8°  53'58	1.39881 AU	superior conj	2335 Sep 02 09:01	9°  13'47	1°44'18
evening rise	2334 Sep 30 14:10	16°  02'46		minimum elong	2335 Sep 02 10:00	9°  18'39	1°44'17
desc. node	2334 Oct 05 09:44	23°  56'57		max. Earth dist.	2335 Sep 08 13:59	21°  03'27	1.37822 AU
	2334 Oct 09 05:46	0° 		evening rise	2335 Sep 12 08:13	27°  11'05	
	2334 Oct 30 19:30	0° 			2335 Sep 13 13:34	0° 	
evening max el	2334 Nov 04 13:50	5°  13'02	23°53'00	desc. node	2335 Sep 22 06:45	14°  29'29	
retrograde	2334 Nov 15 10:56	11°  37'18			2335 Oct 02 16:02	0° 	
evening set	2334 Nov 20 15:26	9°  27'43		evening max el	2335 Oct 18 01:55	18°  52'13	25°09'40
asc. node	2334 Nov 24 07:00	5°  26'01		retrograde	2335 Oct 29 23:14	25°  14'45'57	
min. Earth dist.	2334 Nov 25 11:07	3°  52'15	0.67736 AU	evening set	2335 Nov 04 17:52	23°  19'36	
inferior conj	2334 Nov 26 01:23	3°  03'48	0°36'11	min. Earth dist.	2335 Nov 09 05:28	18°  18'32	0.67269 AU
minimum elong	2334 Nov 26 00:32	3°  06'42	0°35'49	inferior conj	2335 Nov 10 06:28	16°  56'56	-0°18'35
	2334 Nov 28 09:33	30° 		minimum elong	2335 Nov 10 06:56	16°  55'24	0°18'23
morning rise	2334 Dec 01 09:38	26°  58'16		asc. node	2335 Nov 11 04:02	15°  47'03	
direct	2334 Dec 05 09:37	25°  12'51		morning rise	2335 Nov 15 20:13	10°  58'24	
	2334 Dec 13 09:02	0° 					

direct	2335 Nov 19 07:56	9° \mathbb{M} 48'13		asc. node	2336 Oct 28 01:04	26° \mathbb{A} 37'05	
morning max el	2335 Nov 26 15:24	13° \mathbb{M} 56'18	19°36'50	morning rise	2336 Oct 30 04:38	24° \mathbb{A} 58'53	
	2335 Dec 08 20:13	0° \mathbb{A}		direct	2336 Nov 02 06:13	24° \mathbb{A} 05'22	
greatest brilliancy	2335 Dec 09 21:19	1° \mathbb{A} 33'19	-0.7m	morning max el	2336 Nov 09 00:48	27° \mathbb{A} 50'16	18°45'35
desc. node	2335 Dec 19 06:00	15° \mathbb{A} 48'18			2336 Nov 11 00:08	0° \mathbb{M}	
morning set	2335 Dec 21 15:34	19° \mathbb{A} 30'22		morning set	2336 Nov 30 06:37	28° \mathbb{M} 43'44	
	2335 Dec 28 09:34	0° \mathbb{B}			2336 Dec 01 01:56	0° \mathbb{A}	
max. Earth dist.	2336 Jan 03 03:21	9° \mathbb{B} 02'11	1.44409 AU	desc. node	2336 Dec 05 03:02	6° \mathbb{A} 22'57	
				max. Earth dist.	2336 Dec 15 20:19	23° \mathbb{A} 13'32	1.45100 AU
superior conj	2336 Jan 07 08:36	15° \mathbb{B} 46'10	-1°47'23				
minimum elong	2336 Jan 07 01:01	15° \mathbb{B} 15'43	1°46'49	superior conj	2336 Dec 16 13:50	24° \mathbb{A} 22'20	-1°12'02
	2336 Jan 16 01:43	0° \mathbb{A}		minimum elong	2336 Dec 16 05:26	23° \mathbb{A} 49'21	1°11'03
evening rise	2336 Jan 21 04:45	8° \mathbb{A} 34'44			2336 Dec 20 03:39	0° \mathbb{B}	
	2336 Feb 03 06:25	0° \mathbb{H}		evening rise	2337 Jan 01 02:51	19° \mathbb{B} 02'41	
asc. node	2336 Feb 07 03:21	5° \mathbb{H} 14'27			2337 Jan 07 22:19	0° \mathbb{A}	
evening max el	2336 Feb 08 22:06	7° \mathbb{H} 12'50	18°18'51	greatest brilliancy	2337 Jan 07 23:02	0° \mathbb{A} 02'52	-0.9m
retrograde	2336 Feb 15 09:21	10° \mathbb{H} 42'16		evening max el	2337 Jan 22 09:06	20° \mathbb{A} 38'54	18°48'34
evening set	2336 Feb 18 08:38	9° \mathbb{H} 54'54		asc. node	2337 Jan 24 00:21	22° \mathbb{A} 10'09	
inferior conj	2336 Feb 24 08:21	4° \mathbb{H} 31'00	3°42'04	retrograde	2337 Jan 29 02:46	24° \mathbb{A} 25'28	
minimum elong	2336 Feb 24 07:56	4° \mathbb{H} 32'12	3°42'03	evening set	2337 Feb 01 08:01	23° \mathbb{A} 26'08	
min. Earth dist.	2336 Feb 26 18:05	1° \mathbb{H} 48'44	0.63753 AU	inferior conj	2337 Feb 07 00:31	17° \mathbb{A} 44'54	3°31'07
	2336 Feb 28 11:55	30° \mathbb{R}		minimum elong	2337 Feb 06 22:46	17° \mathbb{A} 50'17	3°30'55
morning rise	2336 Mar 01 06:26	28° \mathbb{A} 24'57		min. Earth dist.	2337 Feb 08 18:45	15° \mathbb{A} 35'04	0.65360 AU
direct	2336 Mar 08 04:11	25° \mathbb{A} 38'32		morning rise	2337 Feb 12 13:07	11° \mathbb{A} 34'13	
desc. node	2336 Mar 16 05:10	28° \mathbb{A} 39'53		direct	2337 Feb 19 04:20	8° \mathbb{A} 42'24	
	2336 Mar 18 00:02	0° \mathbb{H}		desc. node	2337 Mar 03 02:12	15° \mathbb{A} 12'53	
morning max el	2336 Mar 21 22:34	3° \mathbb{H} 33'58	27°37'53	morning max el	2337 Mar 04 08:19	16° \mathbb{A} 26'32	26°53'32
	2336 Apr 10 17:57	0° \mathbb{Y}			2337 Mar 15 14:15	0° \mathbb{H}	
morning set	2336 Apr 25 17:09	26° \mathbb{Y} 51'48			2337 Apr 03 13:44	0° \mathbb{Y}	
	2336 Apr 27 06:42	0° \mathbb{B}		morning set	2337 Apr 09 03:35	10° \mathbb{Y} 19'32	
max. Earth dist.	2336 Apr 30 19:30	7° \mathbb{B} 17'27	1.33113 AU	max. Earth dist.	2337 Apr 13 12:54	18° \mathbb{Y} 56'46	1.34245 AU
superior conj	2336 May 03 13:21	13° \mathbb{B} 06'50	-0°16'18	superior conj	2337 Apr 17 14:52	27° \mathbb{Y} 18'57	-0°44'26
minimum elong	2336 May 03 14:09	13° \mathbb{B} 11'09	0°16'08	minimum elong	2337 Apr 17 17:08	27° \mathbb{Y} 30'45	0°43'59
asc. node	2336 May 05 02:40	16° \mathbb{B} 27'17			2337 Apr 18 21:41	0° \mathbb{B}	
evening rise	2336 May 10 15:54	28° \mathbb{B} 21'49		asc. node	2337 Apr 21 23:41	6° \mathbb{B} 30'09	
	2336 May 11 10:35	0° \mathbb{I}		evening rise	2337 Apr 25 01:53	12° \mathbb{B} 59'59	
	2336 May 29 00:04	0° \mathbb{E}			2337 May 03 20:19	0° \mathbb{I}	
evening max el	2336 Jun 02 01:48	4° \mathbb{E} 28'27	22°55'10	evening max el	2337 May 14 22:00	15° \mathbb{I} 09'10	21°23'14
desc. node	2336 Jun 12 04:25	10° \mathbb{E} 43'26		retrograde	2337 May 27 00:34	21° \mathbb{I} 04'39	
retrograde	2336 Jun 15 10:09	11° \mathbb{E} 07'25		evening set	2337 May 29 09:00	20° \mathbb{I} 52'01	
evening set	2336 Jun 18 20:09	10° \mathbb{E} 41'47		desc. node	2337 May 30 01:25	20° \mathbb{I} 43'47	
min. Earth dist.	2336 Jun 26 10:39	7° \mathbb{E} 19'16	0.55469 AU	inferior conj	2337 Jun 07 18:37	16° \mathbb{I} 52'24	-2°28'59
inferior conj	2336 Jun 27 23:49	6° \mathbb{E} 25'35	-4°04'27	minimum elong	2337 Jun 07 11:54	17° \mathbb{I} 01'48	2°26'45
minimum elong	2336 Jun 27 16:12	6° \mathbb{E} 36'37	4°02'44	min. Earth dist.	2337 Jun 07 22:40	16° \mathbb{I} 46'42	0.54895 AU
morning rise	2336 Jul 06 14:39	2° \mathbb{E} 33'18		morning rise	2337 Jun 16 15:20	12° \mathbb{I} 54'45	
direct	2336 Jul 09 11:28	2° \mathbb{E} 13'58		direct	2337 Jun 19 21:58	12° \mathbb{I} 31'25	
morning max el	2336 Jul 20 11:19	7° \mathbb{E} 19'42	20°42'20	morning max el	2337 Jul 02 11:20	18° \mathbb{I} 28'28	22°14'21
asc. node	2336 Aug 01 01:54	23° \mathbb{E} 13'51			2337 Jul 11 18:49	0° \mathbb{E}	
	2336 Aug 04 17:08	0° \mathbb{Q}		asc. node	2337 Jul 18 22:56	12° \mathbb{E} 26'50	
morning set	2336 Aug 08 14:31	7° \mathbb{Q} 48'30		morning set	2337 Jul 24 00:31	22° \mathbb{E} 39'12	
					2337 Jul 27 11:54	0° \mathbb{Q}	
superior conj	2336 Aug 16 02:59	23° \mathbb{Q} 21'32	1°44'48	superior conj	2337 Jul 31 05:06	7° \mathbb{Q} 53'57	1°38'27
minimum elong	2336 Aug 16 02:22	23° \mathbb{Q} 18'22	1°44'47	minimum elong	2337 Jul 31 03:22	7° \mathbb{Q} 44'49	1°38'19
	2336 Aug 19 10:04	0° \mathbb{P}		max. Earth dist.	2337 Aug 03 13:10	14° \mathbb{Q} 51'18	1.34413 AU
max. Earth dist.	2336 Aug 20 21:19	2° \mathbb{P} 53'31	1.35946 AU	evening rise	2337 Aug 08 04:55	24° \mathbb{Q} 10'24	
evening rise	2336 Aug 24 22:39	10° \mathbb{P} 37'33			2337 Aug 11 06:20	0° \mathbb{P}	
	2336 Sep 05 02:55	0° \mathbb{A}		desc. node	2337 Aug 26 00:46	24° \mathbb{P} 44'20	
desc. node	2336 Sep 08 03:46	4° \mathbb{A} 47'29			2337 Aug 29 16:10	0° \mathbb{A}	
	2336 Sep 27 02:26	0° \mathbb{M}		evening max el	2337 Sep 12 02:20	16° \mathbb{A} 04'48	27°03'10
evening max el	2336 Sep 29 13:55	2° \mathbb{M} 31'41	26°15'38	retrograde	2337 Sep 25 08:32	23° \mathbb{A} 22'07	
retrograde	2336 Oct 12 06:39	9° \mathbb{M} 42'07		evening set	2337 Oct 02 04:45	20° \mathbb{A} 39'01	
evening set	2336 Oct 18 15:03	7° \mathbb{M} 04'42		min. Earth dist.	2337 Oct 06 02:19	16° \mathbb{A} 49'52	0.65311 AU
min. Earth dist.	2336 Oct 22 19:19	2° \mathbb{M} 39'21	0.66462 AU	inferior conj	2337 Oct 08 02:39	14° \mathbb{A} 32'33	-2°15'22
inferior conj	2336 Oct 24 07:34	0° \mathbb{M} 47'47	-1°16'22	minimum elong	2337 Oct 08 06:18	14° \mathbb{A} 22'10	2°13'57
minimum elong	2336 Oct 24 09:36	0° \mathbb{M} 41'32	1°15'31	morning rise	2337 Oct 14 08:39	8° \mathbb{A} 56'19	
	2336 Oct 24 23:11	30° \mathbb{R}					

asc. node	2337 Oct 14 22:07	8° Ω 41'27			2338 Sep 19 16:53	30° \mathbb{R} \mathbb{M}	
direct	2337 Oct 17 02:29	8° Ω 15'35		inferior conj	2338 Sep 21 13:11	28° \mathbb{M} 05'26	-3°12'56
morning max el	2337 Oct 23 14:57	11° Ω 46'37	18°10'47	minimum elong	2338 Sep 21 18:10	27° \mathbb{M} 52'35	3°11'19
	2337 Nov 05 09:12	0° \mathbb{M}		morning rise	2338 Sep 28 05:24	22° \mathbb{M} 45'25	
morning set	2337 Nov 11 02:44	9° \mathbb{M} 24'37		direct	2338 Sep 30 18:02	22° \mathbb{M} 13'54	
desc. node	2337 Nov 22 00:03	27° \mathbb{M} 05'13		asc. node	2338 Oct 01 19:10	22° \mathbb{M} 19'25	
	2337 Nov 23 19:53	0° \mathbb{X}		morning max el	2338 Oct 07 07:10	25° \mathbb{M} 39'25	17°53'20
					2338 Oct 10 22:40	0° Ω	
superior conj	2337 Nov 25 17:15	3° \mathbb{X} 00'00	-0°24'51	morning set	2338 Oct 24 01:39	21° Ω 23'31	
minimum elong	2337 Nov 25 14:04	2° \mathbb{X} 47'25	0°24'25		2338 Oct 29 02:11	0° \mathbb{M}	
max. Earth dist.	2337 Nov 28 15:25	7° \mathbb{X} 36'57	1.45053 AU				
evening rise	2337 Dec 12 02:35	28° \mathbb{X} 38'13		superior conj	2338 Nov 05 14:59	12° \mathbb{M} 34'21	0°22'02
	2337 Dec 12 23:39	0° \mathbb{Z}		minimum elong	2338 Nov 05 17:20	12° \mathbb{M} 44'00	0°21'41
greatest brilliancy	2337 Dec 24 13:20	17° \mathbb{Z} 49'20	-0.7m	desc. node	2338 Nov 08 21:06	17° \mathbb{M} 51'48	
	2338 Jan 02 03:02	0° \approx		max. Earth dist.	2338 Nov 11 09:36	21° \mathbb{M} 54'22	1.44280 AU
evening max el	2338 Jan 05 16:28	4° \approx 08'28	19°34'59		2338 Nov 16 12:38	0° \mathbb{X}	
asc. node	2338 Jan 10 21:22	7° \approx 57'41		evening rise	2338 Nov 21 12:27	7° \mathbb{X} 44'41	
retrograde	2338 Jan 12 23:39	8° \approx 21'40			2338 Dec 06 07:24	0° \mathbb{Z}	
evening set	2338 Jan 16 12:10	7° \approx 09'04		evening max el	2338 Dec 19 18:41	17° \mathbb{Z} 39'18	20°35'55
inferior conj	2338 Jan 22 00:01	1° \approx 12'44	3°07'34	retrograde	2338 Dec 27 21:36	22° \mathbb{Z} 26'55	
minimum elong	2338 Jan 21 21:34	1° \approx 20'46	3°07'02	asc. node	2338 Dec 28 18:25	22° \mathbb{Z} 22'43	
	2338 Jan 22 22:10	30° \mathbb{R} \mathbb{Z}		evening set	2338 Dec 31 19:02	20° \mathbb{Z} 59'39	
min. Earth dist.	2338 Jan 23 03:32	29° \mathbb{Z} 42'30	0.66565 AU	inferior conj	2339 Jan 06 04:17	14° \mathbb{Z} 50'53	2°34'17
morning rise	2338 Jan 27 06:44	24° \mathbb{Z} 59'56		minimum elong	2339 Jan 06 01:41	14° \mathbb{Z} 59'44	2°33'31
direct	2338 Feb 02 10:22	22° \mathbb{Z} 15'44		min. Earth dist.	2339 Jan 06 18:37	14° \mathbb{Z} 01'58	0.67361 AU
morning max el	2338 Feb 14 17:28	29° \mathbb{Z} 34'30	25°44'30	morning rise	2339 Jan 11 08:11	8° \mathbb{Z} 37'45	
	2338 Feb 15 03:29	0° \approx		direct	2339 Jan 16 21:32	6° \mathbb{Z} 10'16	
desc. node	2338 Feb 17 23:14	3° \approx 03'47		morning max el	2339 Jan 28 01:55	12° \mathbb{Z} 50'28	24°20'41
	2338 Mar 09 11:07	0° \mathbb{H}		desc. node	2339 Feb 04 20:17	21° \mathbb{Z} 50'09	
morning set	2338 Mar 22 23:27	22° \mathbb{H} 59'49			2339 Feb 10 22:13	0° \approx	
	2338 Mar 26 17:18	0° \mathbb{Y}			2339 Mar 02 06:41	0° \mathbb{H}	
max. Earth dist.	2338 Mar 26 18:40	0° \mathbb{Y} 06'28	1.35841 AU	morning set	2339 Mar 04 23:18	4° \mathbb{H} 37'54	
				max. Earth dist.	2339 Mar 08 15:54	11° \mathbb{H} 10'57	1.37816 AU
superior conj	2338 Apr 01 08:24	11° \mathbb{Y} 02'27	-1°12'02				
minimum elong	2338 Apr 01 12:01	11° \mathbb{Y} 20'36	1°11'27	superior conj	2339 Mar 15 14:38	24° \mathbb{H} 08'42	-1°36'58
asc. node	2338 Apr 08 20:43	26° \mathbb{Y} 23'07		minimum elong	2339 Mar 15 18:59	24° \mathbb{H} 29'39	1°36'27
evening rise	2338 Apr 09 08:07	27° \mathbb{Y} 21'17			2339 Mar 18 14:55	0° \mathbb{Y}	
	2338 Apr 10 15:26	0° \mathbb{B}		evening rise	2339 Mar 24 08:11	11° \mathbb{Y} 19'13	
evening max el	2338 Apr 27 05:17	26° \mathbb{B} 23'13	20°05'26	asc. node	2339 Mar 26 17:45	16° \mathbb{Y} 01'43	
	2338 May 02 01:31	0° \mathbb{I}			2339 Apr 03 13:06	0° \mathbb{B}	
retrograde	2338 May 07 14:56	1° \mathbb{I} 25'28		evening max el	2339 Apr 10 00:00	8° \mathbb{B} 17'01	19°06'33
evening set	2338 May 09 15:17	1° \mathbb{I} 14'58		retrograde	2339 Apr 18 18:21	12° \mathbb{B} 32'09	
	2338 May 13 14:07	30° \mathbb{R} \mathbb{B}		evening set	2339 Apr 20 21:25	12° \mathbb{B} 18'09	
desc. node	2338 May 16 22:26	28° \mathbb{B} 15'51		inferior conj	2339 Apr 29 02:53	8° \mathbb{B} 05'33	1°19'03
inferior conj	2338 May 18 15:12	27° \mathbb{B} 15'46	-0°29'48	minimum elong	2339 Apr 29 05:51	8° \mathbb{B} 00'27	1°18'04
minimum elong	2338 May 18 13:49	27° \mathbb{B} 17'50	0°29'17	min. Earth dist.	2339 May 02 02:56	6° \mathbb{B} 02'44	0.56558 AU
min. Earth dist.	2338 May 20 11:43	26° \mathbb{B} 09'18	0.55286 AU	desc. node	2339 May 03 19:27	4° \mathbb{B} 58'50	
morning rise	2338 May 27 10:35	22° \mathbb{B} 54'17		morning rise	2339 May 07 11:14	3° \mathbb{B} 09'29	
direct	2338 May 31 11:01	22° \mathbb{B} 19'05		direct	2339 May 12 11:47	2° \mathbb{B} 10'30	
morning max el	2338 Jun 14 03:29	29° \mathbb{B} 03'24	23°56'15	morning max el	2339 May 26 17:56	9° \mathbb{B} 29'55	25°34'20
	2338 Jun 15 02:45	0° \mathbb{I}			2339 Jun 11 04:18	0° \mathbb{I}	
	2338 Jul 04 19:38	0° \mathbb{E}		morning set	2339 Jun 22 23:50	22° \mathbb{I} 29'56	
asc. node	2338 Jul 05 19:59	2° \mathbb{E} 02'26		asc. node	2339 Jun 22 17:03	21° \mathbb{I} 54'11	
morning set	2338 Jul 08 12:10	7° \mathbb{E} 34'46			2339 Jun 26 11:36	0° \mathbb{E}	
superior conj	2338 Jul 15 12:31	22° \mathbb{E} 41'27	1°26'28	superior conj	2339 Jun 29 23:04	7° \mathbb{E} 37'01	1°09'52
minimum elong	2338 Jul 15 10:13	22° \mathbb{E} 29'00	1°26'11	minimum elong	2339 Jun 29 20:43	7° \mathbb{E} 24'05	1°09'29
max. Earth dist.	2338 Jul 17 14:19	27° \mathbb{E} 09'00	1.33274 AU	max. Earth dist.	2339 Jun 30 22:27	9° \mathbb{E} 44'58	1.32532 AU
	2338 Jul 18 22:32	0° Ω		evening rise	2339 Jul 07 00:43	22° \mathbb{E} 46'17	
evening rise	2338 Jul 22 22:44	8° Ω 16'42			2339 Jul 10 14:43	0° Ω	
	2338 Aug 03 17:10	0° \mathbb{M}			2339 Jul 28 14:34	0° \mathbb{M}	
desc. node	2338 Aug 12 21:47	14° \mathbb{M} 10'29		desc. node	2339 Jul 30 18:48	2° \mathbb{M} 53'14	
evening max el	2338 Aug 25 13:42	29° \mathbb{M} 19'13	27°25'15	evening max el	2339 Aug 07 21:34	12° \mathbb{M} 01'13	27°16'22
	2338 Aug 26 07:12	0° Ω		retrograde	2339 Aug 21 17:18	19° \mathbb{M} 16'18	
retrograde	2338 Sep 08 04:14	6° Ω 36'34		evening set	2339 Aug 28 21:22	16° \mathbb{M} 52'48	
evening set	2338 Sep 15 08:06	3° Ω 57'10		min. Earth dist.	2339 Sep 01 11:41	14° \mathbb{M} 04'19	0.61985 AU
min. Earth dist.	2338 Sep 19 00:16	0° Ω 42'02	0.63808 AU	inferior conj	2339 Sep 04 12:08	11° \mathbb{M} 18'58	-4°04'55

































































































































minimum elong	2339 Sep 04 17:34	11° \mathbb{M} 06'32	4°03'37	inferior conj	2340 Aug 16 20:06	24° Ω 04'45	-4°44'26
morning rise	2339 Sep 11 15:21	6° \mathbb{M} 18'40		minimum elong	2340 Aug 17 00:08	23° Ω 56'39	4°43'54
direct	2339 Sep 14 01:24	5° \mathbb{M} 53'23		morning rise	2340 Aug 24 10:17	19° Ω 26'41	
asc. node	2339 Sep 18 16:15	7° \mathbb{M} 28'39		direct	2340 Aug 26 20:28	19° Ω 05'10	
morning max el	2339 Sep 20 22:29	9° \mathbb{M} 21'44	17°54'03	morning max el	2340 Sep 03 09:45	22° Ω 45'45	18°14'07
	2339 Oct 04 11:19	0° $\underline{\Omega}$		asc. node	2340 Sep 04 13:20	23° Ω 56'38	
morning set	2339 Oct 06 21:05	4° $\underline{\Omega}$ 20'50			2340 Sep 09 03:12	0° \mathbb{M}	
				morning set	2340 Sep 19 07:19	18° \mathbb{M} 01'02	
superior conj	2339 Oct 17 15:37	23° $\underline{\Omega}$ 28'15	0°59'47		2340 Sep 25 16:05	0° $\underline{\Omega}$	
minimum elong	2339 Oct 17 20:05	23° $\underline{\Omega}$ 47'27	0°59'13				
	2339 Oct 21 11:57	0° \mathbb{M}		superior conj	2340 Sep 28 17:25	5° $\underline{\Omega}$ 36'33	1°25'38
max. Earth dist.	2339 Oct 24 23:35	5° \mathbb{M} 46'02	1.42883 AU	minimum elong	2340 Sep 28 21:14	5° $\underline{\Omega}$ 53'53	1°25'16
desc. node	2339 Oct 26 18:07	8° \mathbb{M} 39'02		max. Earth dist.	2340 Oct 06 07:55	18° $\underline{\Omega}$ 58'15	1.41044 AU
evening rise	2339 Nov 01 00:10	17° \mathbb{M} 00'39		evening rise	2340 Oct 11 05:06	27° $\underline{\Omega}$ 05'57	
	2339 Nov 09 11:32	0° \mathbb{M}		desc. node	2340 Oct 12 15:10	29° $\underline{\Omega}$ 24'04	
	2339 Dec 01 12:26	0° \mathbb{Z}			2340 Oct 13 00:05	0° \mathbb{M}	
evening max el	2339 Dec 02 15:11	1° \mathbb{Z} 10'17	21°48'09		2340 Nov 02 04:15	0° \mathbb{M}	
retrograde	2339 Dec 11 18:38	6° \mathbb{Z} 36'53		evening max el	2340 Nov 14 06:55	14° \mathbb{M} 43'49	23°06'59
asc. node	2339 Dec 15 15:29	5° \mathbb{Z} 15'09		retrograde	2340 Nov 24 13:10	20° \mathbb{M} 48'54	
evening set	2339 Dec 16 02:46	4° \mathbb{Z} 53'44		evening set	2340 Nov 29 09:43	18° \mathbb{M} 49'06	
	2339 Dec 20 10:44	30° \mathbb{R} \mathbb{M}		asc. node	2340 Dec 01 12:32	16° \mathbb{M} 41'16	
inferior conj	2339 Dec 21 11:08	28° \mathbb{M} 35'56	1°53'13	inferior conj	2340 Dec 04 18:42	12° \mathbb{M} 26'06	1°05'51
minimum elong	2339 Dec 21 08:54	28° \mathbb{M} 43'42	1°52'24	minimum elong	2340 Dec 04 17:14	12° \mathbb{M} 31'10	1°05'15
min. Earth dist.	2339 Dec 21 13:45	28° \mathbb{M} 26'52	0.67777 AU	min. Earth dist.	2340 Dec 04 10:32	12° \mathbb{M} 54'16	0.67846 AU
morning rise	2339 Dec 26 14:53	22° \mathbb{M} 24'01		morning rise	2340 Dec 10 00:40	6° \mathbb{M} 17'24	
direct	2339 Dec 31 13:07	20° \mathbb{M} 18'05		direct	2340 Dec 14 08:23	4° \mathbb{M} 34'14	
morning max el	2340 Jan 10 11:42	26° \mathbb{M} 11'33	22°52'01	morning max el	2340 Dec 23 02:12	9° \mathbb{M} 40'38	21°27'20
	2340 Jan 13 23:24	0° \mathbb{Z}			2341 Jan 07 19:18	0° \mathbb{Z}	
desc. node	2340 Jan 22 17:20	11° \mathbb{Z} 15'34		desc. node	2341 Jan 08 14:23	1° \mathbb{Z} 09'19	
	2340 Feb 04 12:03	0° \approx		morning set	2341 Jan 23 13:21	23° \mathbb{Z} 54'34	
morning set	2340 Feb 13 20:51	14° \approx 57'25			2341 Jan 27 08:44	0° \approx	
max. Earth dist.	2340 Feb 18 11:20	22° \approx 42'45	1.39965 AU	max. Earth dist.	2341 Jan 30 11:32	5° \approx 05'18	1.42020 AU
	2340 Feb 22 15:30	0° \mathbb{H}					
superior conj	2340 Feb 26 05:12	6° \mathbb{H} 26'06	-1°56'08	superior conj	2341 Feb 06 22:58	17° \approx 42'49	-2°05'17
minimum elong	2340 Feb 26 08:54	6° \mathbb{H} 43'02	1°55'53	minimum elong	2341 Feb 06 23:39	17° \approx 45'46	2°05'17
evening rise	2340 Mar 06 23:02	24° \mathbb{H} 45'11		evening rise	2341 Feb 13 21:41	0° \mathbb{H}	
	2340 Mar 09 17:29	0° \mathbb{Y}		asc. node	2341 Feb 18 01:00	7° \mathbb{H} 30'46	
asc. node	2340 Mar 12 14:47	5° \mathbb{Y} 19'54			2341 Feb 27 11:50	24° \mathbb{H} 10'52	
evening max el	2340 Mar 23 03:51	20° \mathbb{Y} 45'47	18°27'56		2341 Mar 03 09:43	0° \mathbb{Y}	
retrograde	2340 Mar 30 16:27	24° \mathbb{Y} 28'17		evening max el	2341 Mar 06 13:35	3° \mathbb{Y} 40'55	18°09'20
evening set	2340 Apr 02 01:30	24° \mathbb{Y} 07'13		retrograde	2341 Mar 13 08:03	7° \mathbb{Y} 06'51	
inferior conj	2340 Apr 09 11:39	19° \mathbb{Y} 35'26	2°37'18	evening set	2341 Mar 15 22:59	6° \mathbb{Y} 36'25	
minimum elong	2340 Apr 09 15:33	19° \mathbb{Y} 27'35	2°36'19	inferior conj	2341 Mar 22 16:47	1° \mathbb{Y} 43'53	3°22'38
min. Earth dist.	2340 Apr 12 22:08	16° \mathbb{Y} 51'04	0.58437 AU	minimum elong	2341 Mar 22 19:20	1° \mathbb{Y} 37'55	3°22'16
morning rise	2340 Apr 17 02:40	14° \mathbb{Y} 07'54			2341 Mar 24 13:08	30° \mathbb{R} \mathbb{H}	
desc. node	2340 Apr 19 16:29	13° \mathbb{Y} 05'04		min. Earth dist.	2341 Mar 25 23:27	28° \mathbb{H} 41'56	0.60581 AU
direct	2340 Apr 23 02:50	12° \mathbb{Y} 34'20		morning rise	2341 Mar 29 13:38	25° \mathbb{H} 55'10	
morning max el	2340 May 07 12:10	20° \mathbb{Y} 15'50	26°52'48	direct	2341 Apr 05 06:02	23° \mathbb{H} 45'29	
	2340 May 15 20:41	0° \mathbb{B}		desc. node	2341 Apr 06 13:32	23° \mathbb{H} 50'17	
	2340 Jun 02 19:58	0° \mathbb{H}			2341 Apr 17 18:50	0° \mathbb{Y}	
morning set	2340 Jun 06 09:52	7° \mathbb{H} 19'12		morning max el	2341 Apr 19 12:23	1° \mathbb{Y} 38'20	27°39'26
asc. node	2340 Jun 08 14:07	11° \mathbb{H} 56'40			2341 May 10 02:35	0° \mathbb{B}	
				morning set	2341 May 21 16:25	21° \mathbb{B} 55'44	
superior conj	2340 Jun 13 10:53	22° \mathbb{H} 34'25	0°49'23		2341 May 25 12:04	0° \mathbb{H}	
minimum elong	2340 Jun 13 08:56	22° \mathbb{H} 23'39	0°49'01	asc. node	2341 May 26 11:08	2° \mathbb{H} 04'39	
max. Earth dist.	2340 Jun 13 10:12	22° \mathbb{H} 30'42	1.32179 AU	max. Earth dist.	2341 May 27 21:46	5° \mathbb{H} 13'21	1.32221 AU
	2340 Jun 16 20:05	0° \mathbb{B}		superior conj	2341 May 28 22:10	7° \mathbb{H} 27'00	0°25'44
evening rise	2340 Jun 20 08:08	7° \mathbb{B} 30'45		minimum elong	2341 May 28 21:01	7° \mathbb{H} 20'45	0°25'29
	2340 Jul 02 02:30	0° Ω		evening rise	2341 Jun 04 18:43	22° \mathbb{H} 22'01	
desc. node	2340 Jul 16 15:48	20° Ω 34'43			2341 Jun 08 11:18	0° \mathbb{B}	
evening max el	2340 Jul 19 23:31	24° Ω 00'21	26°34'22		2341 Jun 26 22:57	0° Ω	
	2340 Jul 28 11:26	0° \mathbb{M}		evening max el	2341 Jul 01 18:22	5° Ω 12'37	25°22'24
retrograde	2340 Aug 02 22:52	1° \mathbb{M} 12'51		desc. node	2341 Jul 03 12:50	6° Ω 48'51	
	2340 Aug 08 07:08	30° \mathbb{R} Ω		retrograde	2341 Jul 15 18:34	12° Ω 20'05	
evening set	2340 Aug 09 16:02	29° Ω 18'40		evening set	2341 Jul 21 11:34	11° Ω 04'19	
min. Earth dist.	2340 Aug 13 13:01	26° Ω 42'32	0.59947 AU	min. Earth dist.	2341 Jul 26 06:22	8° Ω 22'12	0.57914 AU

inferior conj	2341 Jul 29 09:31	6°♎12'06	-5°00'32	desc. node	2342 Jun 20 09:49	21°♊02'33	
minimum elong	2341 Jul 29 09:33	6°♎12'03	5°00'32	retrograde	2342 Jun 27 01:56	22°♊43'24	
morning rise	2341 Aug 06 10:00	1°♎56'21		evening set	2342 Jul 01 08:28	22°♊03'13	
direct	2341 Aug 08 22:53	1°♎36'45		min. Earth dist.	2342 Jul 07 18:54	18°♊59'17	0.56196 AU
morning max el	2341 Aug 17 13:36	5°♎40'32	18°54'51	inferior conj	2342 Jul 10 02:42	17°♊34'28	-4°38'47
asc. node	2341 Aug 22 10:22	11°♎26'55		minimum elong	2342 Jul 09 21:14	17°♊42'49	4°38'00
	2341 Sep 02 01:07	0°♎		morning rise	2342 Jul 18 12:36	13°♊36'46	
morning set	2341 Sep 03 03:53	2°♎11'02		direct	2342 Jul 21 06:18	13°♊17'37	
				morning max el	2342 Jul 31 07:12	17°♊56'58	19°57'04
superior conj	2341 Sep 11 14:48	18°♎42'30	1°40'17	asc. node	2342 Aug 09 07:24	29°♊45'45	
minimum elong	2341 Sep 11 16:52	18°♎52'23	1°40'10		2342 Aug 09 10:50	0°♎	
	2341 Sep 17 16:42	0°♎		morning set	2342 Aug 18 07:30	16°♎42'03	
max. Earth dist.	2341 Sep 18 12:11	1°♎27'23	1.39000 AU		2342 Aug 24 20:22	0°♎	
evening rise	2341 Sep 22 09:45	8°♎17'07					
desc. node	2341 Sep 29 12:11	20°♎02'27		superior conj	2342 Aug 26 02:30	2°♎31'17	1°45'27
	2341 Oct 05 22:38	0°♎		minimum elong	2342 Aug 26 02:46	2°♎32'34	1°45'26
evening max el	2341 Oct 27 19:51	28°♎21'27	24°26'29	max. Earth dist.	2342 Aug 31 17:08	13°♎26'36	1.37001 AU
	2341 Oct 29 13:31	0°♎		evening rise	2342 Sep 04 13:01	20°♎31'36	
retrograde	2341 Nov 08 03:54	4°♎59'02			2342 Sep 09 22:50	0°♎	
evening set	2341 Nov 13 14:15	2°♎42'47		desc. node	2342 Sep 16 09:12	10°♎29'32	
	2341 Nov 16 04:59	30°♎			2342 Sep 29 22:22	0°♎	
asc. node	2341 Nov 18 09:34	27°♎11'12		evening max el	2342 Oct 10 07:59	12°♎02'01	25°39'30
min. Earth dist.	2341 Nov 18 06:29	27°♎21'29	0.67578 AU	retrograde	2342 Oct 22 14:01	19°♎02'44	
inferior conj	2341 Nov 19 01:11	26°♎18'52	0°13'25	evening set	2342 Oct 28 14:39	16°♎31'52	
minimum elong	2341 Nov 19 00:52	26°♎19'58	0°13'16	min. Earth dist.	2342 Nov 01 23:10	11°♎45'50	0.66974 AU
transit middle	2341 Nov 19 00:52	26°♎19'58	0°13'16	inferior conj	2342 Nov 03 04:48	10°♎11'21	-0°42'50
transit begin	2341 Nov 18 23:17	26°♎25'15		minimum elong	2342 Nov 03 05:54	10°♎07'48	0°42'21
transit end	2341 Nov 19 02:26	26°♎14'40		asc. node	2342 Nov 05 06:36	7°♎37'35	
morning rise	2341 Nov 24 11:31	20°♎15'43		morning rise	2342 Nov 08 21:26	4°♎16'31	
direct	2341 Nov 28 06:04	18°♎54'08		direct	2342 Nov 12 04:41	3°♎13'41	
morning max el	2341 Dec 06 00:00	23°♎20'20	20°13'08	morning max el	2342 Nov 19 05:36	7°♎10'17	19°13'01
	2341 Dec 11 15:48	0°♎			2342 Dec 05 16:45	0°♎	
desc. node	2341 Dec 26 11:26	21°♎23'31		morning set	2342 Dec 12 12:50	10°♎35'44	
	2342 Jan 01 02:41	0°♎		desc. node	2342 Dec 13 08:28	11°♎52'06	
morning set	2342 Jan 02 10:37	2°♎03'13			2342 Dec 24 22:52	0°♎	
max. Earth dist.	2342 Jan 12 19:44	18°♎22'48	1.43702 AU	max. Earth dist.	2342 Dec 26 10:58	2°♎22'13	1.44795 AU
superior conj	2342 Jan 18 15:23	27°♎49'30	-1°59'19	superior conj	2342 Dec 29 06:35	6°♎49'37	-1°34'27
minimum elong	2342 Jan 18 10:42	27°♎30'17	1°59'07	minimum elong	2342 Dec 28 21:47	6°♎14'46	1°33'38
	2342 Jan 19 23:00	0°♎		evening rise	2343 Jan 12 21:23	0°♎28'56	
evening rise	2342 Jan 31 09:49	19°♎27'39			2343 Jan 12 14:21	0°♎	
	2342 Feb 06 12:06	0°♎		asc. node	2343 Feb 01 05:53	29°♎54'20	
asc. node	2342 Feb 14 08:51	12°♎26'05			2343 Feb 01 08:02	0°♎	
evening max el	2342 Feb 18 02:00	16°♎53'33	18°10'03	evening max el	2343 Feb 01 14:12	0°♎15'52	18°29'22
retrograde	2342 Feb 24 13:03	20°♎17'45		retrograde	2343 Feb 08 03:05	3°♎51'06	
evening set	2342 Feb 27 09:23	19°♎36'40		evening set	2343 Feb 11 04:52	2°♎58'35	
inferior conj	2342 Mar 05 14:38	14°♎23'48	3°41'00		2343 Feb 14 18:49	30°♎	
minimum elong	2342 Mar 05 15:14	14°♎22'13	3°40'59	inferior conj	2343 Feb 17 01:08	27°♎26'52	3°39'11
min. Earth dist.	2342 Mar 08 09:03	11°♎28'52	0.62668 AU	minimum elong	2343 Feb 17 00:05	27°♎29'59	3°39'07
morning rise	2342 Mar 11 19:58	8°♎22'38		min. Earth dist.	2343 Feb 19 04:09	24°♎57'27	0.64484 AU
direct	2342 Mar 18 18:30	5°♎45'48		morning rise	2343 Feb 22 18:44	21°♎18'39	
desc. node	2342 Mar 24 10:34	7°♎16'24		direct	2343 Mar 01 14:28	18°♎28'30	
morning max el	2342 Apr 01 18:09	13°♎41'52	27°49'00	desc. node	2343 Mar 11 07:37	22°♎51'04	
	2342 Apr 14 20:54	0°♎		morning max el	2343 Mar 15 03:19	26°♎19'50	27°22'43
	2342 May 02 14:03	0°♎			2343 Mar 18 13:18	0°♎	
morning set	2342 May 05 17:24	6°♎12'42			2343 Apr 08 10:41	0°♎	
max. Earth dist.	2342 May 11 05:24	17°♎40'44	1.32667 AU	morning set	2343 Apr 19 10:04	20°♎00'45	
				max. Earth dist.	2343 Apr 24 05:09	29°♎40'00	1.33542 AU
					2343 Apr 24 09:01	0°♎	
superior conj	2342 May 13 07:12	22°♎08'56	-0°00'25				
minimum elong	2342 May 13 07:13	22°♎09'03	0°00'25	superior conj	2343 Apr 27 12:03	6°♎33'09	-0°28'11
behind sun begin	2342 May 13 02:02	21°♎40'55		minimum elong	2343 Apr 27 13:28	6°♎40'41	0°27'53
behind sun end	2342 May 13 12:25	22°♎37'12		asc. node	2343 Apr 30 05:11	12°♎20'14	
asc. node	2342 May 13 08:10	22°♎14'08		evening rise	2343 May 04 17:44	21°♎57'55	
	2342 May 16 21:54	0°♎			2343 May 08 15:49	0°♎	
evening rise	2342 May 20 06:33	7°♎13'30					
	2342 Jun 01 05:51	0°♎		evening max el	2343 May 25 23:56	26°♎18'53	22°14'46
evening max el	2342 Jun 13 08:23	15°♎49'50	23°50'47		2343 May 30 13:13	0°♎	

desc. node	2343 Jun 07 06:48	2°♄40'38		2344 May 01 01:34	0°♊	
retrograde	2343 Jun 07 21:13	2°♄41'28		evening max el	2344 May 07 00:19	7°♊10'48 20°47'55
evening set	2343 Jun 10 18:37	2°♄22'57		retrograde	2344 May 18 10:24	12°♊44'35
	2343 Jun 16 22:37	30°♋♊		evening set	2344 May 20 13:17	12°♊33'49
min. Earth dist.	2343 Jun 19 06:05	28°♊44'20	0.55117 AU	desc. node	2344 May 24 03:50	11°♊30'47
inferior conj	2343 Jun 20 02:45	28°♊15'15	-3°28'50	inferior conj	2344 May 29 20:21	8°♊36'02 -1°39'13
minimum elong	2343 Jun 19 18:43	28°♊26'33	3°26'37	minimum elong	2344 May 29 15:41	8°♊42'43 1°37'32
morning rise	2343 Jun 28 20:43	24°♊23'31		min. Earth dist.	2344 May 30 18:25	8°♊04'34 0.54937 AU
direct	2343 Jul 01 21:08	24°♊03'04		morning rise	2344 Jun 07 17:39	4°♊30'19
morning max el	2343 Jul 13 13:18	29°♊29'32	21°19'40	direct	2344 Jun 11 06:26	4°♊03'25
	2343 Jul 14 02:10	0°♄		morning max el	2344 Jun 24 09:28	10°♊21'47 22°57'23
asc. node	2343 Jul 27 04:27	18°♄41'35			2344 Jul 08 18:06	0°♄
	2343 Aug 01 22:49	0°♎		asc. node	2344 Jul 13 01:29	8°♄04'50
morning set	2343 Aug 02 15:45	1°♎27'22		morning set	2344 Jul 17 02:39	16°♄20'44
					2344 Jul 23 12:02	0°♎
superior conj	2343 Aug 10 00:20	16°♎50'49	1°42'52	superior conj	2344 Jul 24 05:00	1°♎30'44 1°33'59
minimum elong	2343 Aug 09 23:10	16°♎44'50	1°42'48	minimum elong	2344 Jul 24 02:58	1°♎19'51 1°33'48
max. Earth dist.	2343 Aug 14 04:01	25°♎18'52	1.35251 AU	max. Earth dist.	2344 Jul 26 23:44	7°♎23'31 1.33870 AU
	2343 Aug 16 13:04	0°♍		evening rise	2344 Jul 31 22:19	17°♎27'19
evening rise	2343 Aug 18 10:43	3°♍39'10			2344 Aug 07 13:56	0°♍
	2343 Sep 02 19:48	0°♊		desc. node	2344 Aug 20 03:11	20°♍24'56
desc. node	2343 Sep 03 06:11	0°♊39'41			2344 Aug 27 04:14	0°♊
evening max el	2343 Sep 22 20:11	25°♊40'04	26°38'28	evening max el	2344 Sep 04 08:07	9°♊06'05 27°16'00
	2343 Sep 28 00:59	0°♌		retrograde	2344 Sep 17 18:31	16°♊24'50
retrograde	2343 Oct 05 19:00	2°♌54'10		evening set	2344 Sep 24 18:42	13°♊41'36
evening set	2343 Oct 12 08:58	0°♌13'10		min. Earth dist.	2344 Sep 28 13:34	10°♊07'43 0.64712 AU
	2343 Oct 12 15:15	30°♋♊		inferior conj	2344 Sep 30 19:24	7°♊40'48 -2°40'10
min. Earth dist.	2343 Oct 16 10:16	26°♊03'34	0.66020 AU	minimum elong	2344 Sep 30 23:41	7°♊29'06 2°38'37
inferior conj	2343 Oct 18 03:38	24°♊00'23	-1°41'22	morning rise	2344 Oct 07 05:39	2°♊11'21
minimum elong	2343 Oct 18 06:21	23°♊52'16	1°40'15	asc. node	2344 Oct 09 00:43	1°♊38'49
asc. node	2343 Oct 23 03:39	18°♊55'31		direct	2344 Oct 09 20:52	1°♊35'06
morning rise	2343 Oct 24 04:20	18°♊16'44		morning max el	2344 Oct 16 08:55	5°♊02'52 18°01'13
direct	2343 Oct 27 02:22	17°♊29'06			2344 Nov 01 23:43	0°♌
morning max el	2343 Nov 02 17:26	21°♊06'40	18°28'46	morning set	2344 Nov 03 00:11	1°♌42'39
	2343 Nov 09 16:16	0°♌		desc. node	2344 Nov 16 02:31	23°♌15'18
morning set	2343 Nov 22 16:01	20°♌26'40				
	2343 Nov 28 15:31	0°♌		superior conj	2344 Nov 16 17:41	24°♌16'07 -0°04'18
desc. node	2343 Nov 30 05:30	2°♌30'50		minimum elong	2344 Nov 16 17:09	24°♌14'01 0°04'13
superior conj	2343 Dec 08 08:21	15°♌19'07	-0°52'45	behind sun begin	2344 Nov 16 06:56	23°♌33'00
minimum elong	2343 Dec 08 01:41	14°♌52'57	0°51'54	behind sun end	2344 Nov 17 03:23	24°♌54'57
max. Earth dist.	2343 Dec 09 05:43	16°♌43'03	1.45171 AU		2344 Nov 20 08:04	0°♌
	2343 Dec 17 16:48	0°♍		max. Earth dist.	2344 Nov 21 00:24	1°♌04'37 1.44806 AU
evening rise	2343 Dec 24 09:40	10°♍34'02		evening rise	2344 Dec 03 01:53	19°♌52'50
greatest brilliancy	2344 Jan 03 00:46	25°♍45'07	-0.8m		2344 Dec 09 16:04	0°♍
	2344 Jan 05 18:49	0°♍		greatest brilliancy	2344 Dec 17 03:36	11°♍16'40 -0.6m
evening max el	2344 Jan 15 23:50	13°♍43'38	19°06'17	evening max el	2344 Dec 29 05:04	27°♍13'27 19°59'16
asc. node	2344 Jan 19 02:54	16°♍23'04			2345 Jan 01 08:53	0°♍
retrograde	2344 Jan 22 22:27	17°♍40'43		asc. node	2345 Jan 04 23:58	1°♍37'04
evening set	2344 Jan 26 06:36	16°♍35'51		retrograde	2345 Jan 05 20:10	1°♍41'00
inferior conj	2344 Jan 31 20:49	10°♍47'35	3°22'29	evening set	2345 Jan 09 12:10	0°♍22'30
minimum elong	2344 Jan 31 18:42	10°♍54'18	3°22'08		2345 Jan 09 24:00	30°♋♍
min. Earth dist.	2344 Feb 02 08:31	8°♍54'18	0.65922 AU	inferior conj	2345 Jan 14 22:40	24°♍20'26 2°54'31
morning rise	2344 Feb 06 06:30	4°♍35'35		minimum elong	2345 Jan 14 20:06	24°♍29'03 2°53'51
direct	2344 Feb 12 17:05	1°♍45'55		min. Earth dist.	2345 Jan 15 20:26	23°♍07'35 0.66951 AU
morning max el	2344 Feb 25 13:14	9°♍21'11	26°26'40	morning rise	2345 Jan 20 03:49	18°♍07'00
desc. node	2344 Feb 26 04:41	10°♍00'38		direct	2345 Jan 26 01:30	15°♍28'57
	2344 Mar 12 19:20	0°♋		morning max el	2345 Feb 06 22:06	22°♍33'36 25°09'58
	2344 Mar 30 22:09	0°♐		desc. node	2345 Feb 12 01:44	28°♍17'28
morning set	2344 Apr 01 14:54	3°♐09'41			2345 Feb 13 11:18	0°♍
max. Earth dist.	2344 Apr 05 17:47	11°♐05'49	1.34872 AU		2345 Mar 06 02:48	0°♋
				morning set	2345 Mar 15 03:04	15°♋26'00
superior conj	2344 Apr 10 10:29	20°♐33'24	-0°56'20	max. Earth dist.	2345 Mar 18 19:03	22°♋08'24 1.36638 AU
minimum elong	2344 Apr 10 13:22	20°♐48'10	0°55'48		2345 Mar 22 22:11	0°♐
	2344 Apr 14 23:35	0°♋		superior conj	2345 Mar 24 23:41	4°♐02'16 -1°23'07
asc. node	2344 Apr 16 02:13	2°♋19'05		minimum elong	2345 Mar 25 03:44	4°♐22'12 1°22'31
evening rise	2344 Apr 18 02:23	6°♋29'21				

evening rise	2345 Apr 02 06:20	20° Υ 41'33		evening rise	2346 Mar 17 02:52	4° Υ 26'36	
asc. node	2345 Apr 02 23:16	22° Υ 06'38		asc. node	2346 Mar 20 20:19	11° Υ 37'14	
	2345 Apr 06 23:54	0° \mathcal{B}			2346 Apr 01 15:09	0° \mathcal{B}	
evening max el	2345 Apr 19 12:43	18° \mathcal{B} 42'26	19°38'00	evening max el	2346 Apr 02 11:49	0° \mathcal{B} 52'32	18°47'43
retrograde	2345 Apr 29 05:02	23° \mathcal{B} 23'11		retrograde	2346 Apr 10 15:52	4° \mathcal{B} 51'16	
evening set	2345 May 01 05:34	23° \mathcal{B} 11'50		evening set	2346 Apr 12 21:32	4° \mathcal{B} 34'32	
inferior conj	2345 May 09 22:13	19° \mathcal{B} 08'33	0°19'19	inferior conj	2346 Apr 20 18:35	0° \mathcal{B} 14'24	1°56'28
minimum elong	2345 May 09 23:03	19° \mathcal{B} 07'13	0°19'01	minimum elong	2346 Apr 20 22:20	0° \mathcal{B} 07'30	1°55'19
desc. node	2345 May 11 00:53	18° \mathcal{B} 26'20			2346 Apr 21 02:25	30° $\mathcal{R}\Upsilon$	
min. Earth dist.	2345 May 12 08:39	17° \mathcal{B} 36'40	0.55724 AU	min. Earth dist.	2346 Apr 24 01:16	27° Υ 51'22	0.57305 AU
morning rise	2345 May 18 13:55	14° \mathcal{B} 32'21		desc. node	2346 Apr 27 21:57	25° Υ 30'04	
direct	2345 May 23 00:08	13° \mathcal{B} 48'29		morning rise	2346 Apr 28 20:01	25° Υ 04'14	
morning max el	2345 Jun 06 00:15	20° \mathcal{B} 50'29	24°39'26	direct	2346 May 04 07:30	23° Υ 51'08	
	2345 Jun 13 21:29	0° Π			2346 May 17 04:37	0° \mathcal{B}	
asc. node	2345 Jun 29 22:33	27° Π 48'07		morning max el	2346 May 18 15:33	1° \mathcal{B} 21'14	26°10'56
	2345 Jun 30 23:53	0° \mathcal{E}			2346 Jun 07 21:11	0° Π	
morning set	2345 Jul 01 14:31	1° \mathcal{E} 17'00		morning set	2346 Jun 16 01:40	16° Π 09'50	
				asc. node	2346 Jun 16 19:35	17° Π 44'41	
superior conj	2345 Jul 08 14:03	16° \mathcal{E} 23'03	1°19'57		2346 Jun 22 10:50	0° \mathcal{E}	
minimum elong	2345 Jul 08 11:40	16° \mathcal{E} 10'04	1°19'38	superior conj	2346 Jun 23 01:20	1° \mathcal{E} 19'49	1°01'37
max. Earth dist.	2345 Jul 10 04:03	19° \mathcal{E} 49'05	1.32902 AU	minimum elong	2346 Jun 22 23:06	1° \mathcal{E} 07'29	1°01'13
	2345 Jul 14 23:30	0° Ω		max. Earth dist.	2346 Jun 23 14:09	2° \mathcal{E} 30'10	1.32336 AU
evening rise	2345 Jul 15 20:02	1° Ω 45'14		evening rise	2346 Jun 30 00:37	16° \mathcal{E} 22'03	
	2345 Jul 31 11:23	0° \mathcal{M}			2346 Jul 06 21:46	0° Ω	
desc. node	2345 Aug 07 00:12	9° \mathcal{M} 34'49		desc. node	2346 Jul 24 21:14	27° Ω 53'52	
evening max el	2345 Aug 17 18:21	22° \mathcal{M} 08'42	27°25'33		2346 Jul 26 15:49	0° \mathcal{M}	
retrograde	2345 Aug 31 11:48	29° \mathcal{M} 25'52		evening max el	2346 Jul 31 00:11	4° \mathcal{M} 33'58	27°02'37
evening set	2345 Sep 07 16:38	26° \mathcal{M} 51'40		retrograde	2346 Aug 13 21:41	11° \mathcal{M} 47'20	
min. Earth dist.	2345 Sep 11 07:20	23° \mathcal{M} 48'57	0.63064 AU	evening set	2346 Aug 20 22:32	9° \mathcal{M} 35'11	
inferior conj	2345 Sep 14 01:26	21° \mathcal{M} 06'52	-3°36'01	min. Earth dist.	2346 Aug 24 14:29	6° \mathcal{M} 53'43	0.61133 AU
minimum elong	2345 Sep 14 06:47	20° \mathcal{M} 53'44	3°34'27	inferior conj	2346 Aug 27 18:27	4° \mathcal{M} 09'40	-4°23'47
morning rise	2345 Sep 20 22:17	15° \mathcal{M} 54'44		minimum elong	2346 Aug 27 23:34	3° \mathcal{M} 58'32	4°22'47
direct	2345 Sep 23 09:21	15° \mathcal{M} 26'21			2346 Sep 02 10:20	30° $\mathcal{R}\Omega$	
asc. node	2345 Sep 25 21:47	15° \mathcal{M} 56'46		morning rise	2346 Sep 04 02:19	29° Ω 18'12	
morning max el	2345 Sep 30 01:08	18° \mathcal{M} 52'24	17°51'17	direct	2346 Sep 06 12:08	28° Ω 54'43	
	2345 Oct 08 03:53	0° \mathcal{L}			2346 Sep 10 10:21	0° \mathcal{M}	
morning set	2345 Oct 16 08:38	14° \mathcal{L} 08'44		asc. node	2346 Sep 12 18:49	1° \mathcal{M} 40'44	
	2345 Oct 25 11:57	0° \mathcal{M}		morning max el	2346 Sep 13 15:01	2° \mathcal{M} 27'15	18°00'07
superior conj	2345 Oct 28 02:35	4° \mathcal{M} 23'39	0°39'25	morning set	2346 Sep 29 11:01	27° \mathcal{M} 26'14	
minimum elong	2345 Oct 28 06:17	4° \mathcal{M} 39'05	0°38'55		2346 Sep 30 20:21	0° \mathcal{L}	
desc. node	2345 Nov 02 23:32	14° \mathcal{M} 02'31		superior conj	2346 Oct 09 14:28	15° \mathcal{L} 50'27	1°12'12
max. Earth dist.	2345 Nov 03 16:37	15° \mathcal{M} 11'21	1.43758 AU	minimum elong	2346 Oct 09 18:54	16° \mathcal{L} 09'55	1°11'42
evening rise	2345 Nov 12 10:21	28° \mathcal{M} 57'50		max. Earth dist.	2346 Oct 17 04:30	28° \mathcal{L} 48'31	1.42148 AU
	2345 Nov 13 02:28	0° \mathcal{J}			2346 Oct 17 21:46	0° \mathcal{M}	
	2345 Dec 03 11:05	0° \mathcal{Z}		desc. node	2346 Oct 20 20:34	4° \mathcal{M} 49'14	
evening max el	2345 Dec 12 04:53	10° \mathcal{Z} 44'24	21°05'34	evening rise	2346 Oct 23 04:03	8° \mathcal{M} 31'40	
retrograde	2345 Dec 20 17:54	15° \mathcal{Z} 48'15			2346 Nov 06 06:46	0° \mathcal{J}	
asc. node	2345 Dec 22 21:02	15° \mathcal{Z} 23'04		evening max el	2346 Nov 24 23:20	24° \mathcal{J} 17'06	22°21'14
evening set	2345 Dec 24 19:36	14° \mathcal{Z} 14'35		retrograde	2346 Dec 04 13:53	29° \mathcal{J} 59'46	
inferior conj	2345 Dec 30 04:18	8° \mathcal{Z} 01'45	2°17'43	evening set	2346 Dec 09 03:10	28° \mathcal{J} 09'35	
minimum elong	2345 Dec 30 01:48	8° \mathcal{Z} 10'21	2°16'54	asc. node	2346 Dec 09 18:04	27° \mathcal{J} 37'04	
min. Earth dist.	2345 Dec 30 13:36	7° \mathcal{Z} 29'45	0.67587 AU	inferior conj	2346 Dec 14 11:40	21° \mathcal{J} 49'22	1°33'49
morning rise	2346 Jan 04 07:49	1° \mathcal{Z} 48'48		minimum elong	2346 Dec 14 09:42	21° \mathcal{J} 56'10	1°33'04
	2346 Jan 07 02:36	30° $\mathcal{R}\mathcal{J}$		min. Earth dist.	2346 Dec 14 09:38	21° \mathcal{J} 56'23	0.67854 AU
direct	2346 Jan 09 14:50	29° \mathcal{J} 29'49		morning rise	2346 Dec 19 16:06	15° \mathcal{J} 38'44	
	2346 Jan 12 06:55	0° \mathcal{Z}		direct	2346 Dec 24 08:09	13° \mathcal{J} 42'21	
morning max el	2346 Jan 20 06:33	5° \mathcal{Z} 50'48	23°42'49	morning max el	2347 Jan 02 17:49	19° \mathcal{J} 14'38	22°15'02
desc. node	2346 Jan 29 22:47	17° \mathcal{Z} 21'56			2347 Jan 11 17:33	0° \mathcal{Z}	
	2346 Feb 07 22:52	0° \approx		desc. node	2347 Jan 16 19:49	7° \mathcal{Z} 00'40	
morning set	2346 Feb 24 16:23	26° \approx 32'05			2347 Feb 01 03:32	0° \approx	
	2346 Feb 26 16:45	0° \mathcal{H}		morning set	2347 Feb 05 01:25	6° \approx 15'25	
max. Earth dist.	2346 Feb 28 14:05	3° \mathcal{H} 18'22	1.38723 AU	max. Earth dist.	2347 Feb 10 11:20	15° \approx 12'01	1.40875 AU
superior conj	2346 Mar 07 23:51	16° \mathcal{H} 49'18	-1°46'03	superior conj	2347 Feb 18 06:17	28° \approx 42'54	-2°01'32
minimum elong	2346 Mar 08 04:10	17° \mathcal{H} 09'35	1°45'37	minimum elong	2347 Feb 18 09:02	28° \approx 55'13	2°01'25
	2346 Mar 14 20:14	0° Υ					

	2347 Feb 18 23:30	0° H		evening rise	2348 Feb 11 07:57	0° H 02'39	
evening rise	2347 Feb 28 12:45	17° H 36'42			2348 Feb 11 07:21	0° H	
	2347 Mar 07 07:04	0° Y		asc. node	2348 Feb 22 14:24	19° H 21'37	
asc. node	2347 Mar 07 17:23	0° Y 44'53		evening max el	2348 Feb 28 05:44	26° H 36'30	18°07'13
evening max el	2347 Mar 16 18:35	13° Y 33'39	18°17'33	retrograde	2348 Mar 05 19:56	0° Y 00'20	
retrograde	2347 Mar 23 21:55	17° Y 07'06			2348 Mar 05 13:36	0° Y	
evening set	2347 Mar 26 09:40	16° Y 42'07			2348 Mar 06 02:16	30° R H	
inferior conj	2347 Apr 02 12:21	12° Y 01'11	3°00'16	evening set	2348 Mar 08 13:07	29° H 25'33	
minimum elong	2347 Apr 02 15:51	11° Y 53'40	2°59'32	inferior conj	2348 Mar 15 01:06	24° H 23'58	3°33'16
min. Earth dist.	2347 Apr 05 22:29	9° Y 06'32	0.59344 AU	minimum elong	2348 Mar 15 02:49	24° H 19'41	3°33'07
morning rise	2347 Apr 09 19:31	6° Y 23'37		min. Earth dist.	2348 Mar 18 03:06	21° H 22'19	0.61491 AU
desc. node	2347 Apr 14 18:59	4° Y 39'31		morning rise	2348 Mar 21 14:54	18° H 28'46	
direct	2347 Apr 16 03:44	4° Y 34'29		direct	2348 Mar 28 10:53	16° H 06'20	
morning max el	2347 Apr 30 12:08	12° Y 20'50	27°17'01	desc. node	2348 Mar 31 16:01	16° H 35'21	
	2347 May 14 09:27	0° B		morning max el	2348 Apr 11 15:11	24° H 01'37	27°48'09
morning set	2347 May 31 10:26	0° II 54'00			2348 Apr 17 00:38	0° Y	
	2347 May 31 00:03	0° II			2348 May 06 16:08	0° B	
asc. node	2347 Jun 03 16:38	7° II 49'44		morning set	2348 May 14 14:54	15° B 23'09	
max. Earth dist.	2347 Jun 07 02:26	15° II 16'34	1.32157 AU	max. Earth dist.	2348 May 20 12:56	27° B 54'47	1.32360 AU
				asc. node	2348 May 20 13:40	27° B 58'47	
superior conj	2347 Jun 07 13:05	16° II 15'12	0°39'42		2348 May 21 11:57	0° II	
minimum elong	2347 Jun 07 11:26	16° II 06'05	0°39'21				
	2347 Jun 13 20:27	0° B		superior conj	2348 May 21 23:37	1° II 03'40	0°14'53
evening rise	2347 Jun 14 09:38	1° B 09'53		minimum elong	2348 May 21 22:56	0° II 59'55	0°14'44
	2347 Jun 30 01:36	0° Q		behind sun begin	2348 May 21 21:02	0° II 49'31	
desc. node	2347 Jul 11 18:15	15° Q 01'14		behind sun end	2348 May 22 00:50	1° II 10'20	
evening max el	2347 Jul 12 23:08	16° Q 12'16	26°06'52	evening rise	2348 May 28 20:58	16° II 01'44	
retrograde	2347 Jul 26 22:51	23° Q 22'22			2348 Jun 04 19:31	0° B	
evening set	2347 Aug 02 07:37	21° Q 43'54		evening max el	2348 Jun 23 15:09	27° B 06'20	24°44'54
min. Earth dist.	2347 Aug 06 11:44	19° Q 07'42	0.59069 AU		2348 Jun 26 23:47	0° Q	
inferior conj	2347 Aug 09 18:48	16° Q 39'26	-4°54'57	desc. node	2348 Jun 27 15:15	0° Q 28'36	
minimum elong	2347 Aug 09 21:28	16° Q 34'24	4°54'45	retrograde	2348 Jul 07 13:45	4° Q 10'11	
morning rise	2347 Aug 17 13:28	12° Q 11'01		evening set	2348 Jul 12 17:01	3° Q 10'23	
direct	2347 Aug 20 00:43	11° Q 50'21		min. Earth dist.	2348 Jul 18 02:23	0° Q 20'48	0.57121 AU
morning max el	2347 Aug 27 23:24	15° Q 38'59	18°28'56		2348 Jul 18 15:24	30° R B	
asc. node	2347 Aug 30 15:51	18° Q 36'15		inferior conj	2348 Jul 20 23:37	28° B 27'51	-4°56'47
	2347 Sep 07 00:50	0° M		minimum elong	2348 Jul 20 21:18	28° B 31'39	4°56'39
morning set	2347 Sep 13 02:03	11° M 19'55		morning rise	2348 Jul 29 04:16	24° B 21'09	
				direct	2348 Jul 31 18:59	24° B 01'59	
superior conj	2347 Sep 22 01:14	28° M 24'44	1°33'09	morning max el	2348 Aug 09 23:16	28° B 18'59	19°18'50
minimum elong	2347 Sep 22 04:22	28° M 39'16	1°32'53		2348 Aug 11 15:00	0° Q	
	2347 Sep 22 21:51	0° Q		asc. node	2348 Aug 16 12:53	6° Q 28'48	
max. Earth dist.	2347 Sep 29 11:12	11° Q 43'30	1.40182 AU	morning set	2348 Aug 27 01:58	25° Q 39'50	
evening rise	2347 Oct 03 18:42	19° Q 03'22			2348 Aug 29 06:00	0° M	
desc. node	2347 Oct 07 17:35	25° Q 31'33					
	2347 Oct 10 13:11	0° M		superior conj	2348 Sep 04 05:21	11° M 51'06	1°43'32
	2347 Oct 31 15:13	0° J		minimum elong	2348 Sep 04 06:37	11° M 57'17	1°43'28
evening max el	2347 Nov 07 13:34	7° J 51'58	23°41'07	max. Earth dist.	2348 Sep 10 14:53	23° M 56'57	1.38121 AU
retrograde	2347 Nov 18 06:51	14° J 11'34			2348 Sep 13 23:44	0° Q	
evening set	2347 Nov 23 09:17	12° J 04'24		evening rise	2348 Sep 14 09:23	0° Q 42'24	
asc. node	2347 Nov 26 15:06	8° J 33'48		desc. node	2348 Sep 23 14:36	16° Q 05'46	
inferior conj	2347 Nov 28 18:57	5° J 40'31	0°44'08		2348 Oct 02 19:31	0° M	
minimum elong	2347 Nov 28 17:55	5° J 44'02	0°43'43	evening max el	2348 Oct 20 01:44	21° M 30'28	24°58'44
min. Earth dist.	2347 Nov 28 06:12	6° J 23'57	0.67774 AU	retrograde	2348 Oct 31 19:51	28° M 19'55	
	2347 Dec 03 13:55	30° R M		evening set	2348 Nov 06 12:18	25° M 56'50	
morning rise	2347 Dec 04 02:32	29° M 34'11		min. Earth dist.	2348 Nov 11 01:04	20° M 50'24	0.67359 AU
direct	2347 Dec 08 04:27	28° M 00'36		inferior conj	2348 Nov 12 00:25	19° M 33'35	-0°10'04
	2347 Dec 13 06:16	0° J		minimum elong	2348 Nov 12 00:41	19° M 32'45	0°09'57
morning max el	2347 Dec 16 11:19	2° J 48'24	20°54'19	transit middle	2348 Nov 12 00:41	19° M 32'45	0°09'57
desc. node	2348 Jan 03 16:50	27° J 03'39		transit begin	2348 Nov 11 22:29	19° M 39'56	
	2348 Jan 05 16:08	0° B		transit end	2348 Nov 12 02:52	19° M 25'33	
morning set	2348 Jan 15 07:34	14° B 45'11		asc. node	2348 Nov 12 12:06	18° M 55'15	
max. Earth dist.	2348 Jan 23 15:25	28° B 00'54	1.42799 AU	morning rise	2348 Nov 17 13:13	13° M 33'43	
	2348 Jan 24 20:37	0° B		direct	2348 Nov 21 02:36	12° M 20'43	
				morning max el	2348 Nov 28 12:38	16° M 33'19	19°45'45
superior conj	2348 Jan 30 13:38	9° B 30'08	-2°04'54		2348 Dec 08 23:52	0° J	
minimum elong	2348 Jan 30 12:13	9° B 24'10	2°04'52	greatest brilliancy	2348 Dec 11 20:29	4° J 11'49	-0.7m

desc. node	2348 Dec 20 13:52	17°  24'26	direct	2349 Nov 05 01:05	26°  38'22	
morning set	2348 Dec 24 03:42	22°  54'48		2349 Nov 11 10:29	0° 	
	2348 Dec 28 17:19	0° 	morning max el	2349 Nov 11 21:06	0°  26'03	18°52'09
max. Earth dist.	2349 Jan 05 02:32	11°  36'56 1.44246 AU		2349 Dec 02 09:24	0° 	
			morning set	2349 Dec 03 14:58	1°  56'13	
superior conj	2349 Jan 09 18:44	19°  06'20 -1°51'10	desc. node	2349 Dec 07 10:55	7°  57'32	
minimum elong	2349 Jan 09 11:49	18°  38'22 1°50'41	max. Earth dist.	2349 Dec 18 19:06	25°  45'33 1.45042 AU	
	2349 Jan 16 10:25	0° 				
evening rise	2349 Jan 23 08:12	11°  36'35	superior conj	2349 Dec 20 02:06	27°  47'27 -1°18'23	
	2349 Feb 03 08:44	0° 	minimum elong	2349 Dec 19 17:22	27°  43'05 1°17'26	
asc. node	2349 Feb 08 11:25	7°  18'17		2349 Dec 21 11:46	0° 	
evening max el	2349 Feb 10 18:20	9°  18'42 18°16'00	evening rise	2350 Jan 04 09:51	22°  13'11	
retrograde	2349 Feb 17 05:18	13°  21'25		2350 Jan 09 05:06	0° 	
evening set	2349 Feb 20 03:46	12°  35'45	evening max el	2350 Jan 25 05:47	23°  19'27 18°43'04	
inferior conj	2349 Feb 26 04:50	7°  14'45 3°42'19	asc. node	2350 Jan 26 08:26	24°  23'16	
minimum elong	2349 Feb 26 04:40	7°  15'14 3°42'20	retrograde	2350 Jan 31 21:55	27°  02'35	
min. Earth dist.	2349 Feb 28 16:55	4°  28'32 0.63482 AU	evening set	2350 Feb 04 02:16	26°  05'01	
morning rise	2349 Mar 04 04:40	1°  09'47	inferior conj	2350 Feb 09 19:40	20°  26'18 3°33'41	
	2349 Mar 05 20:26	30° 	minimum elong	2350 Feb 09 18:05	20°  31'07 3°33'30	
direct	2349 Mar 11 02:54	28°  25'14	min. Earth dist.	2350 Feb 11 16:10	18°  11'05 0.65146 AU	
	2349 Mar 16 19:55	0° 	morning rise	2350 Feb 15 09:27	14°  16'14	
desc. node	2349 Mar 18 13:03	1°  00'15	direct	2350 Feb 22 02:04	11°  24'22	
morning max el	2349 Mar 24 22:50	6°  21'25 27°41'51	desc. node	2350 Mar 05 10:06	17°  19'14	
	2349 Apr 11 23:21	0° 	morning max el	2350 Mar 07 08:26	19°  10'37 27°01'58	
morning set	2349 Apr 28 12:44	29°  29'06		2350 Mar 16 13:27	0° 	
	2349 Apr 28 18:56	0° 		2350 Apr 04 23:13	0° 	
max. Earth dist.	2349 May 03 17:33	10°  10'40 1.32979 AU	morning set	2350 Apr 12 00:56	13°  02'35	
			max. Earth dist.	2350 Apr 16 12:40	21°  55'14 1.34049 AU	
superior conj	2349 May 06 07:08	15°  38'48 -0°12'05				
minimum elong	2349 May 06 07:43	15°  42'00 0°11'57	superior conj	2350 Apr 20 09:38	29°  54'32 -0°40'09	
behind sun begin	2349 May 06 04:12	15°  23'01	minimum elong	2350 Apr 20 11:41	0°  05'14 0°39'44	
behind sun end	2349 May 06 11:15	16°  00'58		2350 Apr 20 10:41	0° 	
asc. node	2349 May 07 10:42	18°  07'13	asc. node	2350 Apr 24 07:45	8°  11'14	
	2349 May 12 23:10	0° 	evening rise	2350 Apr 27 19:08	15°  30'51	
evening rise	2349 May 13 08:44	0°  50'42		2350 May 05 03:10	0° 	
	2349 May 29 16:44	0° 	evening max el	2350 May 17 23:41	18°  12'53 21°36'11	
evening max el	2349 Jun 05 04:48	7°  35'58 23°09'38	retrograde	2350 May 30 07:27	24°  15'36	
desc. node	2349 Jun 14 12:16	13°  39'56	desc. node	2350 Jun 01 09:17	24°  05'48	
retrograde	2349 Jun 18 16:13	14°  19'27	evening set	2350 Jun 01 18:42	24°  01'49	
evening set	2349 Jun 22 07:14	13°  50'38	inferior conj	2350 Jun 11 04:29	20°  00'41 -2°45'48	
min. Earth dist.	2349 Jun 29 14:20	10°  33'18 0.55632 AU	minimum elong	2350 Jun 10 21:14	20°  10'49 2°43'28	
inferior conj	2349 Jul 01 08:45	9°  31'18 -4°15'07	min. Earth dist.	2350 Jun 11 02:04	20°  04'04 0.54926 AU	
minimum elong	2349 Jul 01 01:33	9°  41'53 4°13'40	morning rise	2350 Jun 20 00:40	16°  05'13	
morning rise	2349 Jul 09 22:21	5°  38'01	direct	2350 Jun 23 05:34	15°  42'45	
direct	2349 Jul 12 18:14	5°  18'49	morning max el	2350 Jul 05 13:35	21°  31'48 21°59'45	
morning max el	2349 Jul 23 12:08	10°  17'35 20°29'56		2350 Jul 12 18:32	0° 	
asc. node	2349 Aug 03 09:56	25°  04'32	asc. node	2350 Jul 21 07:00	14°  13'07	
	2349 Aug 06 03:01	0° 	morning set	2350 Jul 26 17:26	25°  06'37	
morning set	2349 Aug 11 07:49	10°  17'21		2350 Jul 29 01:14	0° 	
superior conj	2349 Aug 18 21:49	25°  15'41 1°45'12	superior conj	2350 Aug 02 22:55	10°  23'15 1°39'46	
minimum elong	2349 Aug 18 21:25	25°  15'21 1°45'11	minimum elong	2350 Aug 02 21:20	10°  14'51 1°39'41	
	2349 Aug 20 22:36	0° 	max. Earth dist.	2350 Aug 06 11:58	17°  04'40 1.34622 AU	
max. Earth dist.	2349 Aug 23 21:21	5°  48'08 1.36213 AU	evening rise	2350 Aug 11 01:17	26°  04'29	
evening rise	2349 Aug 27 21:05	13°  07'04		2350 Aug 12 17:35	0° 	
	2349 Sep 06 10:44	0° 	desc. node	2350 Aug 28 08:37	26°  06'30	
desc. node	2349 Sep 10 11:37	6°  26'12		2350 Aug 30 18:40	0° 	
	2349 Sep 27 17:15	0° 	evening max el	2350 Sep 15 02:17	18°  45'11 26°57'32	
evening max el	2349 Oct 02 13:49	5°  10'26 26°06'48	retrograde	2350 Sep 28 06:39	26°  01'34	
retrograde	2349 Oct 15 04:02	12°  18'40	evening set	2350 Oct 05 01:22	23°  18'50	
evening set	2349 Oct 21 10:23	9°  42'54	min. Earth dist.	2350 Oct 08 23:57	19°  24'23 0.65507 AU	
min. Earth dist.	2349 Oct 25 15:47	5°  12'02 0.66605 AU	inferior conj	2350 Oct 10 22:24	17°  10'41 -2°06'26	
inferior conj	2349 Oct 27 02:16	3°  12'45 -1°07'29	minimum elong	2350 Oct 11 01:49	17°  00'51 2°05'06	
minimum elong	2349 Oct 27 04:03	3°  19'18 1°06'43	morning rise	2350 Oct 17 02:59	11°  32'22	
asc. node	2349 Oct 30 09:08	29°  37'15	asc. node	2350 Oct 17 06:12	11°  28'24	
	2349 Oct 30 00:15	30° 	direct	2350 Oct 19 21:51	10°  49'54	
morning rise	2349 Nov 01 22:07	27°  34'12	morning max el	2350 Oct 26 10:44	14°  22'16 18°14'54	

	2350 Nov 06 15:46	0°♍	morning rise	2351 Oct 01 01:06	25°♎23'30	
morning set	2350 Nov 14 06:44	12°♍24'11	direct	2351 Oct 03 14:20	24°♎50'51	
desc. node	2350 Nov 24 07:56	28°♍38'40	asc. node	2351 Oct 04 03:17	24°♎52'20	
	2350 Nov 25 04:20	0°♌	morning max el	2351 Oct 10 02:55	28°♎16'32	17°54'49
				2351 Oct 11 16:59	0°♏	
superior conj	2350 Nov 29 04:21	6°♌20'34 -0°32'14	morning set	2351 Oct 27 02:04	24°♏12'48	
minimum elong	2350 Nov 29 00:12	6°♌04'10 0°31'41		2351 Oct 30 11:28	0°♍	
max. Earth dist.	2350 Dec 01 14:24	10°♌09'17 1.45106 AU				
	2350 Dec 14 07:00	0°♎	superior conj	2351 Nov 08 22:32	15°♍44'24	0°15'22
evening rise	2350 Dec 15 12:39	1°♎55'37	minimum elong	2351 Nov 09 00:15	15°♍51'22	0°15'08
greatest brilliancy	2350 Dec 27 07:02	20°♎09'40 -0.7m	behind sun begin	2351 Nov 08 20:41	15°♍36'54	
	2351 Jan 03 00:30	0°♏	behind sun end	2351 Nov 09 03:48	16°♍05'50	
evening max el	2351 Jan 08 13:50	6°♏48'33 19°27'06	desc. node	2351 Nov 11 04:57	19°♍24'43	
asc. node	2351 Jan 13 05:29	10°♏22'03	max. Earth dist.	2351 Nov 14 08:58	24°♍28'55	1.44438 AU
retrograde	2351 Jan 15 18:31	10°♏57'14		2351 Nov 17 20:46	0°♌	
evening set	2351 Jan 19 05:54	9°♏46'35	evening rise	2351 Nov 24 23:43	11°♌04'10	
inferior conj	2351 Jan 24 18:17	3°♏52'12 3°11'50		2351 Dec 07 11:51	0°♎	
minimum elong	2351 Jan 24 15:54	3°♏59'58 3°11'20	evening max el	2351 Dec 22 16:50	20°♎18'46	20°26'01
min. Earth dist.	2351 Jan 25 23:50	2°♏16'03 0.66410 AU	retrograde	2351 Dec 30 16:32	25°♎01'06	
	2351 Jan 27 19:48	30°♏♎	asc. node	2351 Dec 31 02:33	25°♎00'08	
morning rise	2351 Jan 30 01:40	27°♎39'40	evening set	2352 Jan 03 12:31	23°♎36'06	
direct	2351 Feb 05 07:13	24°♎53'49	inferior conj	2352 Jan 08 22:01	17°♎28'52	2°39'53
	2351 Feb 15 08:12	0°♏	minimum elong	2352 Jan 08 19:24	17°♎37'43	2°39'07
morning max el	2351 Feb 17 17:51	2°♏17'04 25°56'04	min. Earth dist.	2352 Jan 09 14:12	16°♎33'51	0.67267 AU
desc. node	2351 Feb 20 07:09	4°♏59'55	morning rise	2352 Jan 14 02:08	11°♎15'33	
	2351 Mar 10 17:17	0°♏	direct	2352 Jan 19 17:38	8°♎45'15	
morning set	2351 Mar 25 23:19	25°♏50'43	morning max el	2352 Jan 31 02:26	15°♎32'11	24°33'41
	2351 Mar 28 04:41	0°♏	desc. node	2352 Feb 07 04:12	23°♎38'45	
max. Earth dist.	2351 Mar 29 20:18	3°♏09'03 1.35579 AU		2352 Feb 12 00:12	0°♏	
				2352 Mar 02 15:43	0°♏	
superior conj	2351 Apr 04 04:34	13°♏42'38 -1°07'58	morning set	2352 Mar 07 02:33	7°♏38'49	
minimum elong	2351 Apr 04 08:00	13°♏59'59 1°07'23	max. Earth dist.	2352 Mar 10 18:28	14°♏11'52	1.37502 AU
asc. node	2351 Apr 11 04:48	28°♏05'56				
evening rise	2351 Apr 12 02:05	29°♏55'04	superior conj	2352 Mar 17 12:42	26°♏54'32	-1°33'29
	2351 Apr 12 03:03	0°♏	minimum elong	2352 Mar 17 17:01	27°♏15'25	1°32'56
evening max el	2351 Apr 30 05:07	29°♏20'40 20°15'48		2352 Mar 19 02:47	0°♏	
	2351 Apr 30 21:51	0°♏	evening rise	2352 Mar 26 03:15	13°♏56'35	
retrograde	2351 May 10 21:04	4°♏31'02	asc. node	2352 Mar 28 01:51	17°♏46'47	
evening set	2351 May 12 21:42	4°♏20'37		2352 Apr 03 16:38	0°♏	
desc. node	2351 May 19 06:20	1°♏55'43	evening max el	2352 Apr 11 22:13	11°♏08'21	19°14'03
inferior conj	2351 May 21 23:49	0°♏22'09 -0°47'56	retrograde	2352 Apr 20 22:04	15°♏29'53	
minimum elong	2351 May 21 21:34	0°♏25'28 0°47'05	evening set	2352 Apr 23 00:17	15°♏16'44	
	2351 May 22 14:50	30°♏♎	inferior conj	2352 May 01 08:43	11°♏06'42	1°04'19
min. Earth dist.	2351 May 23 14:48	29°♏24'47 0.55169 AU	minimum elong	2352 May 01 11:14	11°♏02'28	1°03'26
morning rise	2351 May 30 20:02	26°♏05'19	min. Earth dist.	2352 May 04 05:45	9°♏11'29	0.56317 AU
direct	2351 Jun 03 17:13	25°♏32'40	desc. node	2352 May 05 03:23	8°♏37'12	
	2351 Jun 14 18:17	0°♏	morning rise	2352 May 09 19:11	6°♏15'40	
morning max el	2351 Jun 17 06:36	2°♏10'19 23°41'02	direct	2352 May 14 15:53	5°♏21'02	
	2351 Jul 06 06:27	0°♏	morning max el	2352 May 28 21:01	12°♏36'32	25°20'40
asc. node	2351 Jul 08 04:04	3°♏45'41		2352 Jun 11 08:49	0°♏	
morning set	2351 Jul 11 05:00	10°♏01'56	asc. node	2352 Jun 24 01:07	23°♏35'12	
			morning set	2352 Jun 24 16:45	24°♏57'25	
superior conj	2351 Jul 18 05:45	25°♏09'04 1°28'36		2352 Jun 27 01:20	0°♏	
minimum elong	2351 Jul 18 03:30	24°♏56'57 1°28'21	superior conj	2352 Jul 01 15:58	10°♏03'54	1°12'40
max. Earth dist.	2351 Jul 20 11:51	29°♏58'43 1.33415 AU	minimum elong	2352 Jul 01 13:35	9°♏50'52	1°12'17
	2351 Jul 20 12:06	0°♏	max. Earth dist.	2352 Jul 02 19:04	12°♏31'58	1.32611 AU
evening rise	2351 Jul 25 17:38	10°♏49'26	evening rise	2352 Jul 08 18:35	25°♏16'01	
	2351 Aug 05 01:07	0°♏		2352 Jul 11 02:33	0°♏	
desc. node	2351 Aug 15 05:38	15°♏58'11		2352 Jul 28 14:22	0°♏	
	2351 Aug 26 12:28	0°♏	desc. node	2352 Aug 01 02:40	4°♏48'40	
evening max el	2351 Aug 28 13:54	2°♏03'12 27°23'48	evening max el	2352 Aug 09 22:23	14°♏50'39	27°19'49
retrograde	2351 Sep 11 03:21	9°♏20'56	retrograde	2352 Aug 23 17:39	22°♏06'36	
evening set	2351 Sep 18 06:33	6°♏40'06	evening set	2352 Aug 30 22:14	19°♏39'45	
min. Earth dist.	2351 Sep 21 23:18	3°♏20'25 0.64054 AU	min. Earth dist.	2352 Sep 03 12:21	16°♏48'04	0.62271 AU
inferior conj	2351 Sep 24 10:26	0°♏45'59 -3°04'27	inferior conj	2352 Sep 06 11:20	14°♏02'59	-3°57'42
minimum elong	2351 Sep 24 15:16	0°♏33'21 3°02'50	minimum elong	2352 Sep 06 16:48	13°♏50'13	3°56'18
	2351 Sep 25 04:07	30°♏♎				



























































































































morning rise	2352 Sep 13 12:55	8° \mathbb{M} 59'38		minimum elong	2353 Aug 20 02:08	26° Ω 44'15	4°39'03
direct	2352 Sep 15 23:06	8° \mathbb{M} 33'40		morning rise	2353 Aug 27 10:18	22° Ω 11'39	
asc. node	2352 Sep 20 00:20	9° \mathbb{M} 48'25		direct	2353 Aug 29 20:14	21° Ω 49'44	
morning max el	2352 Sep 22 18:36	12° \mathbb{M} 01'10	17°52'44	morning max el	2353 Sep 06 06:36	25° Ω 28'01	18°09'48
	2352 Oct 04 20:22	0° Ω		asc. node	2353 Sep 06 21:22	26° Ω 04'58	
morning set	2352 Oct 08 18:51	7° Ω 02'31			2353 Sep 10 02:59	0° \mathbb{M}	
				morning set	2353 Sep 22 03:10	20° \mathbb{M} 36'55	
superior conj	2352 Oct 19 19:09	26° Ω 26'34	0°54'47		2353 Sep 27 03:19	0° Ω	
minimum elong	2352 Oct 19 23:31	26° Ω 45'11	0°54'14				
	2352 Oct 21 21:32	0° \mathbb{M}		superior conj	2353 Oct 01 17:28	8° Ω 24'12	1°22'28
max. Earth dist.	2352 Oct 26 23:31	8° \mathbb{M} 24'40	1.43127 AU	minimum elong	2353 Oct 01 21:30	8° Ω 42'18	1°22'03
desc. node	2352 Oct 28 01:58	10° \mathbb{M} 11'58		max. Earth dist.	2353 Oct 09 08:30	21° Ω 42'26	1.41343 AU
evening rise	2352 Nov 03 10:04	20° \mathbb{M} 15'52		evening rise	2353 Oct 14 11:47	0° \mathbb{M} 12'04	
	2352 Nov 09 18:08	0° \mathbb{M}			2353 Oct 14 08:48	0° \mathbb{M}	
	2352 Dec 01 03:40	0° \mathbb{Z}		desc. node	2353 Oct 14 22:59	0° \mathbb{M} 57'21	
evening max el	2352 Dec 04 14:07	3° \mathbb{Z} 49'20	21°36'49		2353 Nov 03 06:41	0° \mathbb{M}	
retrograde	2352 Dec 13 13:49	9° \mathbb{Z} 10'12		evening max el	2353 Nov 17 06:29	17° \mathbb{Z} 22'22	22°55'03
asc. node	2352 Dec 16 23:36	8° \mathbb{Z} 06'25		retrograde	2353 Nov 27 08:43	23° \mathbb{Z} 21'45	
evening set	2352 Dec 17 20:11	7° \mathbb{Z} 29'34		evening set	2353 Dec 02 03:18	21° \mathbb{Z} 24'34	
inferior conj	2352 Dec 23 04:36	1° \mathbb{Z} 12'51	1°59'52	asc. node	2353 Dec 03 20:37	19° \mathbb{Z} 43'59	
minimum elong	2352 Dec 23 02:16	1° \mathbb{Z} 20'55	1°59'03	min. Earth dist.	2353 Dec 07 05:35	15° \mathbb{Z} 24'50	0.67861 AU
min. Earth dist.	2352 Dec 23 08:55	0° \mathbb{Z} 57'54	0.67740 AU	inferior conj	2353 Dec 07 12:08	15° \mathbb{Z} 02'12	1°13'22
	2352 Dec 24 01:42	30° \mathbb{R} \mathbb{Z}		minimum elong	2353 Dec 07 10:32	15° \mathbb{Z} 07'45	1°12'44
morning rise	2352 Dec 28 08:12	25° \mathbb{Z} 00'31		morning rise	2353 Dec 12 17:38	8° \mathbb{Z} 52'50	
direct	2353 Jan 02 08:41	22° \mathbb{Z} 51'07		direct	2353 Dec 17 03:29	7° \mathbb{Z} 06'11	
morning max el	2353 Jan 12 11:47	28° \mathbb{Z} 52'03	23°05'03	morning max el	2353 Dec 26 01:14	12° \mathbb{Z} 19'05	21°39'20
	2353 Jan 13 14:00	0° \mathbb{Z}			2354 Jan 08 23:16	0° \mathbb{Z}	
desc. node	2353 Jan 24 01:13	12° \mathbb{Z} 58'46		desc. node	2354 Jan 10 22:14	2° \mathbb{Z} 48'33	
	2353 Feb 04 18:43	0° \approx		morning set	2354 Jan 27 00:54	27° \mathbb{Z} 18'36	
morning set	2353 Feb 16 04:21	18° \approx 10'41			2354 Jan 28 17:15	0° \approx	
max. Earth dist.	2353 Feb 20 13:19	25° \approx 36'04	1.39639 AU	max. Earth dist.	2354 Feb 02 12:27	7° \approx 49'54	1.41733 AU
	2353 Feb 23 01:46	0° \mathbb{H}					
superior conj	2353 Feb 28 05:54	9° \mathbb{H} 19'49	-1°53'46	superior conj	2354 Feb 10 03:04	20° \approx 46'07	-2°04'46
minimum elong	2353 Feb 28 09:50	9° \mathbb{H} 37'57	1°53'29	minimum elong	2354 Feb 10 04:23	20° \approx 51'51	2°04'45
evening rise	2353 Mar 09 19:40	27° \mathbb{H} 27'39			2354 Feb 15 07:56	0° \mathbb{H}	
	2353 Mar 11 03:31	0° \mathbb{Y}		evening rise	2354 Feb 20 23:46	10° \mathbb{H} 19'17	
asc. node	2353 Mar 14 22:54	7° \mathbb{Y} 08'28		asc. node	2354 Mar 01 19:56	26° \mathbb{H} 03'44	
evening max el	2353 Mar 26 00:58	23° \mathbb{Y} 32'49	18°32'30		2354 Mar 04 07:52	0° \mathbb{Y}	
retrograde	2353 Apr 02 17:15	27° \mathbb{Y} 19'00		evening max el	2354 Mar 09 10:01	6° \mathbb{Y} 24'14	18°10'54
evening set	2353 Apr 05 01:23	26° \mathbb{Y} 59'11		retrograde	2354 Mar 16 06:22	9° \mathbb{Y} 51'31	
inferior conj	2353 Apr 12 14:18	22° \mathbb{Y} 30'38	2°27'35	evening set	2354 Mar 18 20:33	9° \mathbb{Y} 22'30	
minimum elong	2353 Apr 12 18:15	22° \mathbb{Y} 22'52	2°26'33	inferior conj	2354 Mar 25 16:30	4° \mathbb{Y} 33'02	3°17'37
min. Earth dist.	2353 Apr 16 00:20	19° \mathbb{Y} 51'00	0.58127 AU	minimum elong	2354 Mar 25 19:20	4° \mathbb{Y} 26'34	3°17'10
morning rise	2353 Apr 20 08:03	17° \mathbb{Y} 07'15		min. Earth dist.	2354 Mar 29 00:26	1° \mathbb{Y} 32'10	0.60257 AU
desc. node	2353 Apr 22 00:25	16° \mathbb{Y} 24'18			2354 Mar 30 21:44	30° \mathbb{R} \mathbb{H}	
direct	2353 Apr 26 05:09	15° \mathbb{Y} 39'01		morning rise	2354 Apr 01 15:59	28° \mathbb{H} 47'03	
morning max el	2353 May 10 14:24	23° \mathbb{Y} 18'14	26°42'53	direct	2354 Apr 08 06:39	26° \mathbb{H} 42'25	
	2353 May 16 14:31	0° \mathbb{B}		desc. node	2354 Apr 08 21:27	26° \mathbb{H} 43'29	
	2353 Jun 04 07:07	0° \mathbb{I}			2354 Apr 17 04:13	0° \mathbb{Y}	
morning set	2353 Jun 09 03:07	9° \mathbb{I} 47'59		morning max el	2354 Apr 22 13:32	4° \mathbb{Y} 33'43	27°34'51
asc. node	2353 Jun 10 22:08	13° \mathbb{I} 36'24			2354 May 11 09:21	0° \mathbb{B}	
				morning set	2354 May 24 10:16	24° \mathbb{B} 26'21	
superior conj	2353 Jun 16 03:41	25° \mathbb{I} 01'36	0°52'45		2354 May 27 01:38	0° \mathbb{I}	
minimum elong	2353 Jun 16 01:38	24° \mathbb{I} 50'20	0°52'21	asc. node	2354 May 28 19:10	3° \mathbb{I} 43'37	
max. Earth dist.	2353 Jun 16 06:27	25° \mathbb{I} 16'47	1.32207 AU	max. Earth dist.	2354 May 30 18:17	8° \mathbb{I} 00'32	1.32191 AU
	2353 Jun 18 09:59	0° \mathbb{E}					
evening rise	2353 Jun 23 01:20	9° \mathbb{E} 58'57		superior conj	2354 May 31 15:07	9° \mathbb{I} 54'51	0°29'31
	2353 Jul 03 09:47	0° Ω		minimum elong	2354 May 31 13:49	9° \mathbb{I} 47'47	0°29'14
desc. node	2353 Jul 18 23:41	22° Ω 40'51		evening rise	2354 Jun 07 11:33	24° \mathbb{I} 49'21	
evening max el	2353 Jul 23 01:22	26° Ω 56'41	26°42'42		2354 Jun 09 23:08	0° \mathbb{E}	
	2353 Jul 26 15:18	0° \mathbb{M}			2354 Jun 27 15:27	0° Ω	
retrograde	2353 Aug 06 00:25	4° \mathbb{M} 09'33		evening max el	2354 Jul 04 21:18	8° Ω 15'35	25°34'41
evening set	2353 Aug 12 19:56	2° \mathbb{M} 10'23		desc. node	2354 Jul 05 20:42	9° Ω 09'52	
	2353 Aug 16 01:24	30° \mathbb{R} Ω		retrograde	2354 Jul 18 21:31	15° Ω 23'35	
min. Earth dist.	2353 Aug 16 15:12	29° Ω 33'20	0.60258 AU	evening set	2354 Jul 24 19:00	14° Ω 02'00	
inferior conj	2353 Aug 19 21:43	26° Ω 53'17	-4°39'43	min. Earth dist.	2354 Jul 29 09:28	11° Ω 21'54	0.58210 AU
				inferior conj	2354 Aug 01 14:02	9° Ω 06'35	-5°00'12

minimum elong	2354 Aug 01 14:50	9°♎05'09	5°00'11	inferior conj	2355 Jul 13 10:10	20°♊35'24	-4°45'05
morning rise	2354 Aug 09 13:01	4°♎47'28		minimum elong	2355 Jul 13 05:29	20°♊42'42	4°44'31
direct	2354 Aug 12 01:28	4°♎27'35		morning rise	2355 Jul 21 18:45	16°♊35'44	
morning max el	2354 Aug 20 11:40	8°♎27'07	18°47'25	direct	2355 Jul 24 11:41	16°♊16'36	
asc. node	2354 Aug 24 18:23	13°♎26'15		morning max el	2355 Aug 03 06:55	20°♊49'32	19°46'30
	2354 Sep 03 12:03	0°♐			2355 Aug 10 14:39	0°♎	
morning set	2354 Sep 05 22:24	4°♐42'51		asc. node	2355 Aug 11 15:25	1°♎38'23	
				morning set	2355 Aug 21 01:08	19°♎11'09	
					2355 Aug 26 09:07	0°♐	
superior conj	2354 Sep 14 12:14	21°♐22'08	1°38'43				
minimum elong	2354 Sep 14 14:36	21°♐33'18	1°38'34				
	2354 Sep 19 03:47	0°♑		superior conj	2355 Aug 28 22:06	5°♐05'23	1°45'11
max. Earth dist.	2354 Sep 21 13:21	4°♑18'15	1.39310 AU	minimum elong	2355 Aug 28 22:37	5°♐07'56	1°45'11
evening rise	2354 Sep 25 12:48	11°♑12'54		max. Earth dist.	2355 Sep 03 17:58	16°♐21'08	1.37285 AU
desc. node	2354 Oct 01 20:01	21°♑36'55		evening rise	2355 Sep 07 12:54	23°♐18'15	
	2354 Oct 07 05:01	0°♒			2355 Sep 11 08:26	0°♑	
	2354 Oct 29 20:13	0°♓		desc. node	2355 Sep 18 17:02	12°♑06'01	
evening max el	2354 Oct 30 19:46	0°♓59'42	24°14'53		2355 Sep 30 22:54	0°♒	
retrograde	2354 Nov 11 00:01	7°♓32'38		evening max el	2355 Oct 13 07:51	14°♒39'40	25°29'19
evening set	2354 Nov 16 08:18	5°♓18'44		retrograde	2355 Oct 25 10:52	21°♒37'43	
asc. node	2354 Nov 20 17:38	0°♓19'37		evening set	2355 Oct 31 09:27	19°♒08'40	
	2354 Nov 20 23:30	30°♒♒		min. Earth dist.	2355 Nov 04 19:02	14°♒17'25	0.67085 AU
min. Earth dist.	2354 Nov 21 01:45	29°♒52'28	0.67642 AU	inferior conj	2355 Nov 05 23:02	12°♒47'20	-0°34'06
inferior conj	2354 Nov 21 18:53	28°♒54'47	0°21'39	minimum elong	2355 Nov 05 23:55	12°♒44'31	0°33'43
minimum elong	2354 Nov 21 18:22	28°♒56'33	0°21'26	asc. node	2355 Nov 07 14:40	10°♒42'40	
morning rise	2354 Nov 27 04:26	22°♒50'46		morning rise	2355 Nov 11 14:38	6°♒51'14	
direct	2354 Dec 01 00:54	21°♒26'04		direct	2355 Nov 14 23:25	5°♒45'54	
morning max el	2354 Dec 08 21:53	25°♒57'23	20°23'23	morning max el	2355 Nov 22 02:27	9°♒46'11	19°21'03
	2354 Dec 12 12:24	0°♓		greatest brilliancy	2355 Dec 05 19:42	28°♒17'06	-0.7m
desc. node	2354 Dec 28 19:16	23°♓00'05			2355 Dec 06 22:49	0°♓	
	2355 Jan 02 09:51	0°♔		morning set	2355 Dec 15 23:40	13°♓55'19	
morning set	2355 Jan 05 23:47	5°♔30'44		desc. node	2355 Dec 15 16:17	13°♓26'42	
max. Earth dist.	2355 Jan 15 19:53	21°♔01'33	1.43490 AU		2355 Dec 26 07:06	0°♔	
	2355 Jan 21 08:05	0°♕		max. Earth dist.	2355 Dec 29 10:19	4°♔56'09	1.44676 AU
superior conj	2355 Jan 21 23:27	1°♕03'36	-2°01'25	superior conj	2356 Jan 01 18:01	10°♔12'13	-1°39'27
minimum elong	2355 Jan 21 19:39	0°♕47'49	2°01'15	minimum elong	2356 Jan 01 09:31	9°♔38'24	1°38'42
evening rise	2355 Feb 03 11:26	22°♕24'00			2356 Jan 13 22:44	0°♕	
	2355 Feb 07 19:54	0°♖		evening rise	2356 Jan 16 02:25	3°♕34'08	
asc. node	2355 Feb 16 16:57	14°♖24'45			2356 Feb 01 21:20	0°♖	
evening max el	2355 Feb 20 22:12	19°♖34'22	18°08'41	asc. node	2356 Feb 03 13:59	2°♖00'53	
retrograde	2355 Feb 27 09:41	22°♖57'59		evening max el	2356 Feb 04 10:35	2°♖55'30	18°25'16
evening set	2355 Mar 02 05:15	22°♖18'30		retrograde	2356 Feb 10 22:44	6°♖28'31	
inferior conj	2355 Mar 08 12:07	17°♖08'25	3°39'38	evening set	2356 Feb 13 23:37	5°♖37'49	
minimum elong	2355 Mar 08 13:00	17°♖06'06	3°39'35	inferior conj	2356 Feb 19 21:01	0°♖08'42	3°40'30
min. Earth dist.	2355 Mar 11 08:36	14°♖11'11	0.62373 AU	minimum elong	2356 Feb 19 20:11	0°♖11'08	3°40'27
morning rise	2355 Mar 14 19:32	11°♖08'38			2356 Feb 20 00:01	30°♖♖	
direct	2355 Mar 21 17:41	8°♖35'14		min. Earth dist.	2356 Feb 22 02:22	27°♖34'34	0.64238 AU
desc. node	2355 Mar 26 18:28	9°♖46'34		morning rise	2356 Feb 25 16:07	24°♖01'06	
morning max el	2355 Apr 04 18:38	16°♖31'03	27°49'58	direct	2356 Mar 03 12:39	21°♖12'02	
	2355 Apr 15 21:42	0°♗		desc. node	2356 Mar 12 15:30	25°♖04'06	
	2355 May 04 01:16	0°♘		morning max el	2356 Mar 17 03:36	29°♖05'01	27°28'40
morning set	2355 May 08 12:12	8°♘46'05			2356 Mar 18 01:08	0°♖	
max. Earth dist.	2355 May 14 02:48	20°♘30'40	1.32574 AU		2356 Apr 08 18:27	0°♗	
asc. node	2355 May 15 16:13	23°♘52'41		morning set	2356 Apr 21 06:21	22°♗39'05	
					2356 Apr 24 22:02	0°♘	
superior conj	2355 May 16 00:34	24°♘38'03	0°03'41	max. Earth dist.	2356 Apr 26 03:59	2°♘34'36	1.33380 AU
minimum elong	2355 May 16 00:24	24°♘37'05	0°03'39				
behind sun begin	2355 May 15 19:20	24°♘09'38		superior conj	2356 Apr 29 06:12	9°♘05'11	-0°23'56
behind sun end	2355 May 16 05:27	25°♘04'33		minimum elong	2356 Apr 29 07:24	9°♘11'33	0°23'40
	2355 May 18 11:42	0°♙		asc. node	2356 May 01 13:18	13°♘59'37	
evening rise	2355 May 22 23:17	9°♙40'37		evening rise	2356 May 06 10:43	24°♘26'24	
	2355 Jun 02 10:59	0°♚			2356 May 09 03:06	0°♙	
evening max el	2355 Jun 16 11:38	18°♚55'56	24°05'06	evening max el	2356 May 28 02:24	29°♙23'53	22°28'49
desc. node	2355 Jun 22 17:43	23°♚43'51			2356 May 28 17:38	0°♚	
retrograde	2355 Jun 30 06:44	25°♚52'34		desc. node	2356 Jun 08 14:44	5°♚47'22	
evening set	2355 Jul 04 18:52	25°♚07'37		retrograde	2356 Jun 10 03:57	5°♚52'53	
min. Earth dist.	2355 Jul 10 22:18	22°♚07'55	0.56418 AU	evening set	2356 Jun 13 05:30	5°♚32'10	

min. Earth dist.	2356 Jun 21 09:37	1°☿59'32	0.55217 AU	evening set	2357 May 23 21:44	15°♄41'41	
inferior conj	2356 Jun 22 12:20	1°☿21'38	-3°42'34	desc. node	2357 May 26 11:47	15°♄01'35	
minimum elong	2356 Jun 22 04:19	1°☿33'01	3°40'29	inferior conj	2357 Jun 02 06:01	11°♄43'39	-1°57'18
	2356 Jun 24 23:09	30°♄		minimum elong	2357 Jun 02 00:32	11°♄51'24	1°55'23
morning rise	2356 Jul 01 05:16	27°♄30'14		min. Earth dist.	2357 Jun 02 21:53	11°♄21'10	0.54898 AU
direct	2356 Jul 04 04:18	27°♄10'18		morning rise	2357 Jun 11 03:15	7°♄41'07	
	2356 Jul 12 12:32	0°☿		direct	2357 Jun 14 13:41	7°♄15'39	
morning max el	2356 Jul 15 14:51	2°☿29'20	21°06'17	morning max el	2357 Jun 27 12:18	13°♄26'54	22°42'15
asc. node	2356 Jul 28 12:30	20°☿29'30			2357 Jul 10 00:41	0°☿	
	2356 Aug 02 10:53	0°♄		asc. node	2357 Jul 15 09:35	9°☿49'05	
morning set	2356 Aug 04 08:53	3°♄55'06		morning set	2357 Jul 19 19:32	18°☿47'30	
					2357 Jul 25 01:48	0°♄	
superior conj	2356 Aug 11 18:43	19°♄21'35	1°43'41	superior conj	2357 Jul 26 22:35	3°♄59'00	1°35'42
minimum elong	2356 Aug 11 17:45	19°♄16'33	1°43'39	minimum elong	2357 Jul 26 20:39	3°♄48'41	1°35'32
max. Earth dist.	2356 Aug 16 03:35	28°♄12'35	1.35486 AU	max. Earth dist.	2357 Jul 29 21:52	10°♄14'07	1.34049 AU
	2356 Aug 17 01:22	0°♄		evening rise	2357 Aug 03 18:03	20°♄02'07	
evening rise	2356 Aug 20 08:12	6°♄19'08			2357 Aug 09 00:15	0°♄	
	2356 Sep 03 02:05	0°♄		desc. node	2357 Aug 22 11:06	22°♄09'03	
desc. node	2356 Sep 04 14:03	2°♄19'25			2357 Aug 28 02:03	0°♄	
evening max el	2356 Sep 24 19:58	28°♄18'28	26°30'49	evening max el	2357 Sep 07 08:07	11°♄47'17	27°12'04
	2356 Sep 26 15:58	0°♄		retrograde	2357 Sep 20 17:13	19°♄05'50	
retrograde	2356 Oct 07 16:47	5°♄31'36		evening set	2357 Sep 27 16:05	16°♄22'27	
evening set	2356 Oct 14 04:52	2°♄51'37		min. Earth dist.	2357 Oct 01 11:52	12°♄43'13	0.64930 AU
	2356 Oct 17 02:20	30°♄		inferior conj	2357 Oct 03 15:45	10°♄19'28	-2°31'20
min. Earth dist.	2356 Oct 18 07:09	28°♄36'33	0.66186 AU	minimum elong	2357 Oct 03 19:49	10°♄08'12	2°29'50
inferior conj	2356 Oct 19 22:45	26°♄37'14	-1°32'24	morning rise	2357 Oct 10 00:30	4°♄47'33	
minimum elong	2356 Oct 20 01:13	26°♄29'46	1°31'23	asc. node	2357 Oct 11 08:46	4°♄19'13	
asc. node	2356 Oct 24 11:42	21°♄50'00		direct	2357 Oct 12 16:33	4°♄09'51	
morning rise	2356 Oct 25 22:10	20°♄51'44		morning max el	2357 Oct 19 04:39	7°♄38'40	18°04'10
direct	2356 Oct 28 21:22	20°♄02'10			2357 Nov 03 08:05	0°♄	
morning max el	2356 Nov 04 13:32	23°♄42'05	18°34'16	morning set	2357 Nov 06 02:32	4°♄36'50	
	2356 Nov 09 17:25	0°♄		desc. node	2357 Nov 18 10:23	24°♄47'54	
morning set	2356 Nov 24 22:27	23°♄32'37					
	2356 Nov 28 23:46	0°♄		superior conj	2357 Nov 20 03:28	27°♄32'11	-0°11'33
desc. node	2356 Dec 01 13:20	4°♄04'01		minimum elong	2357 Nov 20 02:02	27°♄26'27	0°11'21
				behind sun begin	2357 Nov 19 18:19	26°♄55'40	
superior conj	2356 Dec 10 20:32	18°♄42'40	-0°59'47	behind sun end	2357 Nov 20 09:45	27°♄57'11	
minimum elong	2356 Dec 10 13:08	18°♄13'38	0°58'53		2357 Nov 21 16:38	0°♄	
max. Earth dist.	2356 Dec 11 04:24	19°♄13'33	1.45163 AU	max. Earth dist.	2357 Nov 23 23:12	3°♄35'50	1.44908 AU
	2356 Dec 18 01:00	0°♄		evening rise	2357 Dec 06 12:44	23°♄11'05	
evening rise	2356 Dec 26 18:05	13°♄46'55			2357 Dec 10 22:48	0°♄	
greatest brilliancy	2357 Jan 04 13:45	27°♄46'57	-0.8m	greatest brilliancy	2357 Dec 20 02:50	13°♄56'07	-0.7m
	2357 Jan 05 23:44	0°♄		evening max el	2358 Jan 01 02:46	29°♄52'46	19°50'31
evening max el	2357 Jan 17 20:44	16°♄22'41	18°59'45		2358 Jan 01 05:36	0°♄	
asc. node	2357 Jan 20 11:02	18°♄39'31		asc. node	2358 Jan 07 08:03	4°♄05'58	
retrograde	2357 Jan 24 17:32	20°♄16'00		retrograde	2358 Jan 08 15:01	4°♄15'08	
evening set	2357 Jan 28 00:37	19°♄13'07		evening set	2358 Jan 12 05:45	2°♄58'47	
inferior conj	2357 Feb 02 15:34	13°♄27'16	3°25'47		2358 Jan 15 07:53	30°♄	
minimum elong	2357 Feb 02 13:34	13°♄33'32	3°25'29	inferior conj	2358 Jan 17 16:41	26°♄58'43	2°59'22
min. Earth dist.	2357 Feb 04 05:33	11°♄28'01	0.65734 AU	minimum elong	2358 Jan 17 14:08	27°♄07'10	2°58'45
morning rise	2357 Feb 08 02:12	7°♄15'35		min. Earth dist.	2358 Jan 18 16:27	25°♄39'42	0.66823 AU
direct	2357 Feb 14 14:27	4°♄24'53		morning rise	2358 Jan 22 22:18	20°♄45'27	
morning max el	2357 Feb 27 13:34	12°♄03'47	26°36'30	direct	2358 Jan 28 22:09	18°♄05'00	
desc. node	2357 Feb 27 12:33	12°♄01'15		morning max el	2358 Feb 09 22:31	25°♄15'00	25°22'18
	2357 Mar 13 22:42	0°♄		desc. node	2358 Feb 14 09:36	0°♄09'28	
	2357 Apr 01 08:49	0°♄			2358 Feb 14 06:23	0°♄	
morning set	2357 Apr 04 13:15	5°♄55'01		morning set	2358 Mar 07 10:36	0°♄	
max. Earth dist.	2357 Apr 08 18:20	14°♄05'09	1.34642 AU	max. Earth dist.	2358 Mar 18 04:17	18°♄20'28	
					2358 Mar 21 21:02	25°♄09'39	1.36352 AU
superior conj	2357 Apr 13 05:49	23°♄09'47	-0°52'07		2358 Mar 24 10:02	0°♄	
minimum elong	2357 Apr 13 08:28	23°♄23'32	0°51'36				
	2357 Apr 16 12:34	0°♄		superior conj	2358 Mar 27 20:37	6°♄44'22	-1°19'14
asc. node	2357 Apr 18 10:21	4°♄00'04		minimum elong	2358 Mar 28 00:32	7°♄03'45	1°18'38
evening rise	2357 Apr 20 19:55	9°♄00'21		evening rise	2358 Apr 05 00:44	23°♄16'10	
	2357 May 02 01:42	0°♄		asc. node	2358 Apr 05 07:25	23°♄49'54	
evening max el	2357 May 10 01:14	10°♄11'15	20°59'56		2358 Apr 08 09:49	0°♄	
retrograde	2357 May 21 17:23	15°♄52'52					

evening max el	2358 Apr 22 11:54	21°♄37'01	19°47'09	evening rise	2359 Mar 19 22:31	7°♄05'39	
retrograde	2358 May 02 10:09	26°♄24'56		asc. node	2359 Mar 23 04:26	13°♄23'21	
evening set	2358 May 04 10:25	26°♄13'59			2359 Apr 02 03:46	0°♄	
inferior conj	2358 May 13 05:47	22°♄12'26	0°02'12	evening max el	2359 Apr 05 09:31	3°♄41'29	18°53'53
minimum elong	2358 May 13 05:52	22°♄12'17	0°02'09	retrograde	2359 Apr 13 18:15	7°♄45'35	
transit middle	2358 May 13 05:52	22°♄12'17	0°02'09	evening set	2359 Apr 15 23:02	7°♄29'50	
transit begin	2358 May 13 01:57	22°♄18'20		inferior conj	2359 Apr 23 23:00	3°♄12'22	1°43'46
transit end	2358 May 13 09:47	22°♄06'13		minimum elong	2359 Apr 24 02:33	3°♄06'01	1°42'40
desc. node	2358 May 13 08:48	22°♄07'45		min. Earth dist.	2359 Apr 27 03:43	0°♄56'06	0.57035 AU
min. Earth dist.	2358 May 15 11:43	20°♄49'16	0.55556 AU		2359 Apr 28 13:51	30°♄♄	
morning rise	2358 May 21 22:57	17°♄41'31		desc. node	2359 Apr 30 05:50	29°♄01'20	
direct	2358 May 26 05:43	17°♄00'52		morning rise	2359 May 02 02:58	28°♄07'05	
morning max el	2358 Jun 09 03:22	23°♄56'58	24°24'30	direct	2359 May 07 10:44	26°♄59'09	
	2358 Jun 14 15:18	0°♄			2359 May 16 07:46	0°♄	
asc. node	2358 Jul 02 06:39	29°♄29'41		morning max el	2359 May 21 18:13	4°♄25'32	25°58'37
	2358 Jul 02 12:33	0°♄			2359 Jun 09 05:29	0°♄	
morning set	2358 Jul 04 07:20	3°♄43'15		morning set	2359 Jun 18 18:39	18°♄36'57	
				asc. node	2359 Jun 19 03:42	19°♄24'44	
superior conj	2358 Jul 11 07:05	18°♄49'26	1°22'23		2359 Jun 24 01:01	0°♄	
minimum elong	2358 Jul 11 04:43	18°♄36'35	1°22'04	superior conj	2359 Jun 25 18:07	3°♄45'48	1°04'39
max. Earth dist.	2358 Jul 13 01:04	22°♄36'24	1.33024 AU	minimum elong	2359 Jun 25 15:49	3°♄33'11	1°04'15
	2358 Jul 16 12:43	0°♄		max. Earth dist.	2359 Jun 26 10:34	5°♄16'09	1.32396 AU
evening rise	2358 Jul 18 14:26	4°♄15'52		evening rise	2359 Jul 02 18:08	18°♄50'19	
	2358 Aug 01 17:10	0°♄			2359 Jul 08 08:16	0°♄	
desc. node	2358 Aug 09 08:07	11°♄24'48		desc. node	2359 Jul 27 05:08	29°♄52'46	
evening max el	2358 Aug 20 18:49	24°♄54'14	27°26'10		2359 Jul 27 07:27	0°♄	
	2358 Aug 27 08:32	0°♄		evening max el	2359 Aug 03 01:28	7°♄25'51	27°08'11
retrograde	2358 Sep 03 11:21	2°♄11'27		retrograde	2359 Aug 16 22:19	14°♄39'38	
	2358 Sep 10 01:40	30°♄♄		evening set	2359 Aug 24 00:33	12°♄23'17	
evening set	2358 Sep 10 15:58	29°♄35'16		min. Earth dist.	2359 Aug 27 15:44	9°♄39'44	0.61433 AU
min. Earth dist.	2358 Sep 14 07:08	26°♄28'20	0.63328 AU	inferior conj	2359 Aug 30 18:34	6°♄54'55	-4°17'27
inferior conj	2358 Sep 16 23:25	23°♄47'59	-3°27'59	minimum elong	2359 Aug 30 23:52	6°♄43'14	4°16'19
minimum elong	2358 Sep 17 04:39	23°♄34'53	3°26'23	morning rise	2359 Sep 07 00:49	2°♄00'19	
morning rise	2358 Sep 23 18:38	18°♄32'57		direct	2359 Sep 09 10:41	1°♄36'12	
direct	2358 Sep 26 06:10	18°♄03'31		asc. node	2359 Sep 15 02:52	3°♄54'46	
asc. node	2358 Sep 28 05:49	18°♄22'46		morning max el	2359 Sep 16 11:19	5°♄07'03	17°57'37
morning max el	2358 Oct 02 20:53	21°♄29'17	17°51'36	morning set	2359 Oct 02 07:52	0°♄05'05	
	2358 Oct 09 08:33	0°♄			2359 Oct 02 06:46	0°♄	
morning set	2358 Oct 19 07:48	16°♄53'56		superior conj	2359 Oct 12 16:23	18°♄43'42	1°08'01
	2358 Oct 26 21:41	0°♄		minimum elong	2359 Oct 12 20:52	19°♄03'16	1°07'28
superior conj	2358 Oct 31 08:20	7°♄27'48	0°33'26		2359 Oct 19 07:11	0°♄	
minimum elong	2358 Oct 31 11:38	7°♄41'27	0°32'58	max. Earth dist.	2359 Oct 20 05:02	1°♄30'31	1.42414 AU
desc. node	2358 Nov 05 07:24	15°♄34'56		desc. node	2359 Oct 23 04:25	6°♄22'10	
max. Earth dist.	2358 Nov 06 16:10	17°♄46'50	1.43954 AU	evening rise	2359 Oct 26 12:42	11°♄43'15	
	2358 Nov 14 10:12	0°♄			2359 Nov 07 12:06	0°♄	
evening rise	2358 Nov 15 21:20	2°♄15'51		evening max el	2359 Nov 27 22:35	26°♄56'08	22°09'28
	2358 Dec 04 12:47	0°♄			2359 Dec 01 08:22	0°♄	
evening max el	2358 Dec 15 03:26	13°♄23'43	20°55'00	retrograde	2359 Dec 07 09:09	2°♄33'05	
retrograde	2358 Dec 23 12:47	18°♄21'41		evening set	2359 Dec 11 20:38	0°♄45'19	
asc. node	2358 Dec 25 05:05	18°♄06'00		asc. node	2359 Dec 12 02:06	0°♄33'55	
evening set	2358 Dec 27 12:59	16°♄50'15			2359 Dec 12 17:02	30°♄♄	
inferior conj	2359 Jan 01 21:51	10°♄38'52	2°23'46	inferior conj	2359 Dec 17 05:03	24°♄25'49	1°40'53
minimum elong	2359 Jan 01 19:18	10°♄47'35	2°22'58	minimum elong	2359 Dec 17 02:59	24°♄33'00	1°40'06
min. Earth dist.	2359 Jan 02 08:53	10°♄00'57	0.67518 AU	min. Earth dist.	2359 Dec 17 04:36	24°♄27'22	0.67840 AU
morning rise	2359 Jan 07 01:26	4°♄25'51		morning rise	2359 Dec 22 09:12	18°♄14'46	
direct	2359 Jan 12 10:43	2°♄03'46		direct	2359 Dec 27 03:25	16°♄15'05	
morning max el	2359 Jan 23 06:50	8°♄31'25	23°56'05	morning max el	2360 Jan 05 17:31	21°♄54'34	22°27'48
desc. node	2359 Feb 01 06:37	19°♄07'35			2360 Jan 12 16:43	0°♄	
	2359 Feb 09 03:24	0°♄		desc. node	2360 Jan 19 03:38	8°♄41'50	
morning set	2359 Feb 27 21:20	29°♄37'44			2360 Feb 02 11:08	0°♄	
	2359 Feb 28 02:31	0°♄		morning set	2360 Feb 08 10:45	9°♄33'37	
max. Earth dist.	2359 Mar 03 16:38	6°♄16'46	1.38404 AU	max. Earth dist.	2360 Feb 13 13:14	18°♄02'53	1.40564 AU
					2360 Feb 20 09:57	0°♄	
superior conj	2359 Mar 10 22:57	19°♄38'10	-1°42'57	superior conj	2360 Feb 21 08:17	1°♄40'11	-1°59'51
minimum elong	2359 Mar 11 03:19	19°♄58'52	1°42'30				
	2359 Mar 16 07:45	0°♄					

minimum elong	2360 Feb 21 11:26	1° ♄ 54'22	1°59'42	asc. node	2361 Feb 23 22:27	21° ♄ 17'01	
evening rise	2360 Mar 02 10:10	20° ♄ 21'25		evening max el	2361 Mar 02 01:59	29° ♄ 18'48	18°07'33
	2360 Mar 07 14:45	0° ♄			2361 Mar 02 19:30	0° ♄	
asc. node	2360 Mar 09 01:26	2° ♄ 34'45		retrograde	2361 Mar 08 17:31	2° ♄ 43'10	
evening max el	2360 Mar 18 15:16	16° ♄ 18'13	18°20'46	evening set	2361 Mar 11 09:53	2° ♄ 09'58	
retrograde	2360 Mar 25 21:37	19° ♄ 54'35			2361 Mar 14 21:27	30° ♄	
evening set	2360 Mar 28 08:25	19° ♄ 31'01		inferior conj	2361 Mar 17 23:49	27° ♄ 11'35	3°29'58
inferior conj	2360 Apr 04 13:38	14° ♄ 53'12	2°52'41	minimum elong	2361 Mar 18 01:50	27° ♄ 06'40	3°29'44
minimum elong	2360 Apr 04 17:18	14° ♄ 45'28	2°51'53	min. Earth dist.	2361 Mar 21 03:37	24° ♄ 09'15	0.61172 AU
min. Earth dist.	2360 Apr 08 00:06	12° ♄ 01'40	0.59022 AU	morning rise	2361 Mar 24 16:01	21° ♄ 18'24	
morning rise	2360 Apr 11 23:32	9° ♄ 18'54		direct	2361 Mar 31 10:54	19° ♄ 00'11	
desc. node	2360 Apr 16 02:51	7° ♄ 46'57		desc. node	2361 Apr 02 23:52	19° ♄ 18'17	
direct	2360 Apr 18 05:04	7° ♄ 35'15		morning max el	2361 Apr 14 16:05	26° ♄ 55'02	27°45'55
morning max el	2360 May 02 13:57	15° ♄ 20'05	27°09'19		2361 Apr 17 14:10	0° ♄	
	2360 May 14 11:01	0° ♄			2361 May 08 01:09	0° ♄	
	2360 May 31 12:35	0° ♄		morning set	2361 May 17 09:09	17° ♄ 55'27	
morning set	2360 Jun 02 03:52	3° ♄ 23'04		asc. node	2361 May 22 21:46	29° ♄ 38'08	
asc. node	2360 Jun 05 00:43	9° ♄ 29'01			2361 May 23 01:47	0° ♄	
				max. Earth dist.	2361 May 23 09:44	0° ♄ 43'11	1.32301 AU
superior conj	2360 Jun 09 05:53	18° ♄ 41'59	0°43'14				
minimum elong	2360 Jun 09 04:07	18° ♄ 32'13	0°42'53	superior conj	2361 May 24 16:44	3° ♄ 32'28	0°18'49
max. Earth dist.	2360 Jun 08 22:46	18° ♄ 02'48	1.32155 AU	minimum elong	2361 May 24 15:53	3° ♄ 27'47	0°18'38
	2360 Jun 14 09:53	0° ♄		evening rise	2361 May 31 13:44	18° ♄ 29'13	
evening rise	2360 Jun 16 02:36	3° ♄ 37'05			2361 Jun 06 05:24	0° ♄	
	2360 Jun 30 05:05	0° ♄			2361 Jun 26 13:33	0° ♄	
desc. node	2360 Jul 13 02:09	17° ♄ 12'51		evening max el	2361 Jun 26 18:18	0° ♄ 11'27	24°58'22
evening max el	2360 Jul 15 01:24	19° ♄ 11'11	26°17'06	desc. node	2361 Jun 29 23:09	2° ♄ 57'50	
retrograde	2360 Jul 29 00:59	26° ♄ 22'14		retrograde	2361 Jul 10 17:42	7° ♄ 16'57	
evening set	2360 Aug 04 13:03	24° ♄ 38'01		evening set	2361 Jul 16 01:58	6° ♄ 11'38	
min. Earth dist.	2360 Aug 08 14:16	22° ♄ 02'18	0.59374 AU	min. Earth dist.	2361 Jul 21 05:49	3° ♄ 24'57	0.57391 AU
inferior conj	2360 Aug 11 21:37	19° ♄ 30'16	-4°51'50	inferior conj	2361 Jul 24 05:28	1° ♄ 25'35	-4°59'03
minimum elong	2360 Aug 12 00:50	19° ♄ 24'04	4°51'32	minimum elong	2361 Jul 24 04:01	1° ♄ 28'01	4°59'00
morning rise	2360 Aug 19 14:45	14° ♄ 58'33			2361 Jul 26 10:00	30° ♄	
direct	2360 Aug 22 01:34	14° ♄ 37'39		morning rise	2361 Aug 01 08:42	27° ♄ 15'52	
morning max el	2360 Aug 29 20:45	18° ♄ 23'09	18°23'21	direct	2361 Aug 03 22:42	26° ♄ 56'36	
asc. node	2360 Aug 31 23:54	20° ♄ 40'38			2361 Aug 11 14:31	0° ♄	
	2360 Sep 07 07:57	0° ♄		morning max el	2361 Aug 12 22:06	1° ♄ 08'45	19°09'59
morning set	2360 Sep 14 21:17	13° ♄ 54'04		asc. node	2361 Aug 18 20:58	8° ♄ 25'40	
	2360 Sep 23 09:07	0° ♄		morning set	2361 Aug 29 20:04	28° ♄ 10'33	
					2361 Aug 30 18:06	0° ♄	
superior conj	2360 Sep 24 00:07	1° ♄ 09'09	1°30'40				
minimum elong	2360 Sep 24 03:30	1° ♄ 24'46	1°30'23	superior conj	2361 Sep 07 01:57	14° ♄ 28'32	1°42'32
max. Earth dist.	2360 Oct 01 12:13	14° ♄ 31'21	1.40485 AU	minimum elong	2361 Sep 07 03:31	14° ♄ 36'03	1°42'28
evening rise	2360 Oct 05 23:50	22° ♄ 05'16		max. Earth dist.	2361 Sep 13 15:47	26° ♄ 48'59	1.38427 AU
desc. node	2360 Oct 09 01:27	27° ♄ 05'32			2361 Sep 15 10:18	0° ♄	
	2360 Oct 10 21:08	0° ♄		evening rise	2361 Sep 17 11:02	3° ♄ 34'27	
	2360 Oct 31 13:33	0° ♄		desc. node	2361 Sep 25 22:29	17° ♄ 41'14	
evening max el	2360 Nov 09 13:14	10° ♄ 30'20	23°29'08		2361 Oct 04 00:08	0° ♄	
retrograde	2360 Nov 20 02:43	16° ♄ 45'10		evening max el	2361 Oct 23 01:37	24° ♄ 08'20	24°47'38
evening set	2360 Nov 25 03:04	14° ♄ 40'31			2361 Oct 30 20:55	0° ♄	
asc. node	2360 Nov 27 23:07	11° ♄ 40'34		retrograde	2361 Nov 03 16:24	0° ♄ 54'00	
min. Earth dist.	2360 Nov 30 01:18	8° ♄ 55'01	0.67807 AU		2361 Nov 07 04:34	30° ♄	
inferior conj	2360 Nov 30 12:28	8° ♄ 16'48	0°52'02	evening set	2361 Nov 09 06:39	28° ♄ 33'19	
minimum elong	2360 Nov 30 11:16	8° ♄ 20'53	0°51'32	min. Earth dist.	2361 Nov 13 20:37	23° ♄ 21'36	0.67440 AU
morning rise	2360 Dec 05 19:26	2° ♄ 09'35		inferior conj	2361 Nov 14 18:20	22° ♄ 09'39	-0°01'34
direct	2360 Dec 09 23:20	0° ♄ 32'44		minimum elong	2361 Nov 14 18:23	22° ♄ 09'32	0°01'34
morning max el	2360 Dec 18 09:58	5° ♄ 26'56	21°05'37	transit middle	2361 Nov 14 18:23	22° ♄ 09'32	0°01'34
desc. node	2361 Jan 05 00:40	28° ♄ 41'47		transit begin	2361 Nov 14 15:38	22° ♄ 18'38	
	2361 Jan 05 21:50	0° ♄		transit end	2361 Nov 14 21:07	22° ♄ 00'26	
morning set	2361 Jan 17 20:18	18° ♄ 12'36		asc. node	2361 Nov 14 20:10	22° ♄ 03'35	
	2361 Jan 25 05:25	0° ♄		morning rise	2361 Nov 20 06:13	16° ♄ 08'34	
max. Earth dist.	2361 Jan 25 15:53	0° ♄ 42'41	1.42536 AU	direct	2361 Nov 23 21:22	14° ♄ 52'38	
				morning max el	2361 Dec 01 10:03	19° ♄ 09'53	19°55'01
superior conj	2361 Feb 01 19:24	12° ♄ 38'14	-2°05'24		2361 Dec 10 02:22	0° ♄	
minimum elong	2361 Feb 01 18:47	12° ♄ 35'36	2°05'23	desc. node	2361 Dec 22 21:43	19° ♄ 00'15	
	2361 Feb 11 16:56	0° ♄		morning set	2361 Dec 27 16:16	26° ♄ 20'11	
evening rise	2361 Feb 13 07:52	2° ♄ 54'50			2361 Dec 30 01:03	0° ♄	

max. Earth dist.	2362 Jan 08 01:56	14°  12'14	1.44067 AU	desc. node	2362 Dec 09 18:45	9°  31'58	
				max. Earth dist.	2362 Dec 21 18:10	28°  18'30	1.44970 AU
superior conj	2362 Jan 13 04:28	22°  25'07	-1°54'30		2362 Dec 22 19:57	0° 	
minimum elong	2362 Jan 12 22:17	22°  00'01	1°54'07				
	2362 Jan 17 19:18	0° 		superior conj	2362 Dec 23 14:18	1°  12'19	-1°24'27
evening rise	2362 Jan 26 11:13	14°  37'00		minimum elong	2362 Dec 23 05:23	0°  37'09	1°23'31
	2362 Feb 04 13:15	0° 		evening rise	2363 Jan 07 16:24	25°  22'30	
asc. node	2362 Feb 10 19:29	9°  20'42			2363 Jan 10 12:28	0° 	
evening max el	2362 Feb 13 14:37	12°  34'47	18°13'32	evening max el	2363 Jan 28 02:27	25°  59'55	18°37'55
retrograde	2362 Feb 20 01:25	16°  00'57		asc. node	2363 Jan 28 16:32	26°  34'39	
evening set	2362 Feb 22 23:08	15°  16'56		retrograde	2363 Feb 03 17:13	29°  39'57	
inferior conj	2362 Mar 01 01:36	9°  58'50	3°42'12	evening set	2363 Feb 06 20:41	28°  44'08	
minimum elong	2362 Mar 01 01:41	9°  58'35	3°42'12	inferior conj	2363 Feb 12 15:02	23°  07'50	3°35'52
min. Earth dist.	2362 Mar 03 16:00	7°  09'07	0.63204 AU	minimum elong	2363 Feb 12 13:37	23°  12'04	3°35'44
morning rise	2362 Mar 07 03:17	3°  55'06		min. Earth dist.	2363 Feb 14 13:48	20°  47'32	0.64925 AU
direct	2362 Mar 14 01:50	1°  12'52		morning rise	2363 Feb 18 06:06	16°  58'25	
desc. node	2362 Mar 20 20:55	3°  23'02		direct	2363 Feb 24 23:57	14°  06'53	
morning max el	2362 Mar 27 23:08	9°  09'19	27°45'03	desc. node	2363 Mar 07 17:57	19°  27'06	
	2362 Apr 13 03:44	0° 		morning max el	2363 Mar 10 08:37	21°  54'58	27°09'45
	2362 Apr 30 06:57	0° 			2363 Mar 17 10:39	0° 	
morning set	2362 May 01 08:09	2°  05'24			2363 Apr 06 08:19	0° 	
max. Earth dist.	2362 May 06 15:26	13°  03'00	1.32860 AU	morning set	2363 Apr 14 21:59	15°  44'11	
				max. Earth dist.	2363 Apr 19 12:13	24°  52'41	1.33866 AU
					2363 Apr 21 23:46	0° 	
superior conj	2362 May 09 00:50	18°  10'08	-0°07'53				
minimum elong	2362 May 09 01:13	18°  12'12	0°07'48				
behind sun begin	2362 May 08 20:36	17°  47'17		superior conj	2363 Apr 23 04:15	2°  29'05	-0°35'52
behind sun end	2362 May 09 05:51	18°  37'07		minimum elong	2363 Apr 23 06:04	2°  38'39	0°35'30
asc. node	2362 May 09 18:48	19°  47'01		asc. node	2363 Apr 26 15:51	9°  51'55	
	2362 May 14 12:13	0° 		evening rise	2363 Apr 30 12:19	18°  01'00	
evening rise	2362 May 16 01:34	3°  19'07			2363 May 06 11:39	0° 	
	2362 May 30 14:26	0° 		evening max el	2363 May 21 01:34	21°  16'43	21°49'23
evening max el	2362 Jun 08 07:58	10°  43'13	23°24'04	retrograde	2363 Jun 02 14:15	27°  26'33	
desc. node	2362 Jun 16 20:11	16°  32'06		desc. node	2363 Jun 03 17:13	27°  23'41	
retrograde	2362 Jun 21 21:56	17°  30'33		evening set	2363 Jun 05 04:45	27°  11'22	
evening set	2362 Jun 25 18:13	16°  58'09		min. Earth dist.	2363 Jun 14 05:27	23°  20'42	0.54975 AU
min. Earth dist.	2362 Jul 02 17:59	13°  45'44	0.55815 AU	inferior conj	2363 Jun 14 14:18	23°  08'18	-3°01'51
inferior conj	2362 Jul 04 17:21	12°  35'37	-4°24'41	minimum elong	2363 Jun 14 06:39	23°  19'01	2°59'31
minimum elong	2362 Jul 04 10:40	12°  45'33	4°23'27	morning rise	2363 Jun 23 09:48	19°  14'36	
morning rise	2362 Jul 13 05:40	8°  41'00		direct	2363 Jun 26 13:05	18°  52'55	
direct	2362 Jul 16 00:45	8°  21'51		morning max el	2363 Jul 08 15:37	24°  33'56	21°45'29
morning max el	2362 Jul 26 12:39	13°  13'43	20°18'00		2363 Jul 13 13:54	0° 	
asc. node	2362 Aug 05 18:03	26°  55'45		asc. node	2363 Jul 23 15:06	15°  59'58	
	2362 Aug 07 11:50	0° 		morning set	2363 Jul 29 10:25	27°  34'08	
morning set	2362 Aug 14 01:13	12°  04'00			2363 Jul 30 14:20	0° 	
superior conj	2362 Aug 21 16:52	28°  02'55	1°45'25	superior conj	2363 Aug 05 16:53	12°  52'49	1°41'00
minimum elong	2362 Aug 21 16:41	28°  02'02	1°45'25	minimum elong	2363 Aug 05 15:26	12°  45'14	1°40'55
	2362 Aug 22 11:20	0° 		max. Earth dist.	2363 Aug 09 11:00	20°  02'37'24	1.34834 AU
max. Earth dist.	2362 Aug 26 21:39	8°  42'36	1.36483 AU	evening rise	2363 Aug 13 21:55	29°  02'51'12	
evening rise	2362 Aug 30 19:54	16°  05'04			2363 Aug 14 05:11	0° 	
	2362 Sep 07 19:10	0° 		desc. node	2363 Aug 30 16:33	28°  08'32	
desc. node	2362 Sep 12 19:31	8°  04'20			2363 Aug 31 22:22	0° 	
	2362 Sep 28 11:54	0° 		evening max el	2363 Sep 18 02:12	21°  25'16	26°51'23
evening max el	2362 Oct 05 13:46	7°  48'59	25°57'39	retrograde	2363 Oct 01 04:41	28°  40'50	
retrograde	2362 Oct 18 01:16	14°  54'46		evening set	2363 Oct 07 21:50	25°  58'34	
evening set	2362 Oct 24 05:38	12°  20'42		min. Earth dist.	2363 Oct 11 21:21	21°  58'52	0.65694 AU
min. Earth dist.	2362 Oct 28 12:08	7°  44'28	0.66739 AU	inferior conj	2363 Oct 13 18:01	19°  48'46	-1°57'31
inferior conj	2362 Oct 29 20:53	6°  01'43	-0°58'37	minimum elong	2363 Oct 13 21:11	19°  43'31	1°56'14
minimum elong	2362 Oct 29 22:25	5°  56'53	0°57'58	morning rise	2363 Oct 19 21:13	14°  40'32	
asc. node	2362 Nov 01 17:14	2°  39'10		asc. node	2363 Oct 19 14:19	14°  41'52	
morning rise	2362 Nov 04 15:34	0° 		direct	2363 Oct 22 17:10	13°  42'19	
	2362 Nov 04 22:04	30°  09'29		morning max el	2363 Oct 29 06:36	16°  58'11	18°19'23
direct	2362 Nov 07 19:59	29°  11'15			2363 Nov 07 21:20	0° 	
	2362 Nov 10 20:26	0° 		morning set	2363 Nov 17 11:22	15°  25'40	
morning max el	2362 Nov 14 17:33	3° 01'51	18°59'07	desc. node	2363 Nov 26 15:47	0°	
	2362 Dec 03 16:36	0°			2363 Nov 26 12:42	0°	
morning set	2362 Dec 07 00:02	5°	10'46				

superior conj	2363 Dec 02 15:49	9° ♄ 42'25	-0°39'38	morning set	2364 Oct 29 02:55	27° ♄ 03'22	
minimum elong	2363 Dec 02 10:44	9° ♄ 22'21	0°38'56		2364 Oct 30 20:32	0° ♄	
max. Earth dist.	2363 Dec 04 13:25	12° ♄ 41'45	1.45145 AU				
	2363 Dec 15 14:34	0° ♄		superior conj	2364 Nov 11 06:39	18° ♄ 56'16	0°08'33
evening rise	2363 Dec 18 22:21	5° ♄ 12'16		minimum elong	2364 Nov 11 07:38	19° ♄ 00'14	0°08'24
greatest brilliancy	2363 Dec 29 23:35	22° ♄ 25'50	-0.8m	behind sun begin	2364 Nov 10 22:49	18° ♄ 24'34	
	2364 Jan 04 01:00	0° ♄		behind sun end	2364 Nov 11 16:27	19° ♄ 35'51	
evening max el	2364 Jan 11 11:04	9° ♄ 28'24	19°19'30	desc. node	2364 Nov 12 12:51	20° ♄ 58'04	
asc. node	2364 Jan 15 13:35	12° ♄ 44'20		max. Earth dist.	2364 Nov 16 08:07	27° ♄ 02'34	1.44583 AU
retrograde	2364 Jan 18 13:28	13° ♄ 32'51			2364 Nov 18 05:00	0° ♄	
evening set	2364 Jan 21 23:43	12° ♄ 24'11		evening rise	2364 Nov 27 10:55	14° ♄ 23'33	
inferior conj	2364 Jan 27 12:40	6° ♄ 31'51	3°15'48		2364 Dec 07 17:01	0° ♄	
minimum elong	2364 Jan 27 10:22	6° ♄ 39'15	3°15'22	evening max el	2364 Dec 24 14:47	22° ♄ 58'05	20°16'24
min. Earth dist.	2364 Jan 28 20:19	4° ♄ 49'42	0.66248 AU	retrograde	2365 Jan 01 11:24	27° ♄ 35'14	
morning rise	2364 Feb 01 20:47	0° ♄ 19'28		asc. node	2365 Jan 01 10:37	27° ♄ 35'14	
	2364 Feb 02 05:43	30° ♄ 3		evening set	2365 Jan 05 05:57	26° ♄ 12'31	
direct	2364 Feb 08 04:08	27° ♄ 32'09		inferior conj	2365 Jan 10 15:45	20° ♄ 06'58	2°45'14
	2364 Feb 14 21:43	0° ♄		minimum elong	2365 Jan 10 13:09	20° ♄ 15'46	2°44'32
morning max el	2364 Feb 20 18:14	4° ♄ 59'46	26°07'09	min. Earth dist.	2365 Jan 11 09:51	19° ♄ 05'46	0.67163 AU
desc. node	2364 Feb 22 14:59	6° ♄ 57'00		morning rise	2365 Jan 15 20:10	13° ♄ 53'31	
	2364 Mar 10 22:48	0° ♄		direct	2365 Jan 21 13:49	11° ♄ 20'26	
morning set	2364 Mar 27 22:45	28° ♄ 40'03		morning max el	2365 Feb 02 02:56	18° ♄ 13'58	24°46'32
	2364 Mar 28 15:53	0° ♄		desc. node	2365 Feb 08 12:01	25° ♄ 28'08	
max. Earth dist.	2364 Mar 31 21:42	6° ♄ 11'04	1.35325 AU		2365 Feb 12 00:45	0° ♄	
					2365 Mar 04 00:22	0° ♄	
superior conj	2364 Apr 06 00:28	16° ♄ 21'45	-1°03'50	morning set	2365 Mar 10 05:12	10° ♄ 38'17	
minimum elong	2364 Apr 06 03:43	16° ♄ 38'14	1°03'16	max. Earth dist.	2365 Mar 13 20:48	17° ♄ 13'02	1.37191 AU
asc. node	2364 Apr 12 12:55	29° ♄ 48'26					
	2364 Apr 12 15:09	0° ♄		superior conj	2365 Mar 20 10:25	29° ♄ 39'37	-1°29'53
evening rise	2364 Apr 13 19:56	2° ♄ 28'12		minimum elong	2365 Mar 20 14:39	0° ♄ 00'18	1°29'19
	2364 Apr 30 00:56	0° ♄			2365 Mar 20 14:35	0° ♄	
evening max el	2364 May 02 05:11	2° ♄ 18'54	20°26'37	evening rise	2365 Mar 28 22:05	16° ♄ 33'32	
retrograde	2364 May 13 03:31	7° ♄ 37'34		asc. node	2365 Mar 30 09:56	19° ♄ 31'45	
evening set	2364 May 15 04:40	7° ♄ 27'10			2365 Apr 04 22:32	0° ♄	
desc. node	2364 May 20 14:12	5° ♄ 34'06		evening max el	2365 Apr 14 20:39	14° ♄ 01'05	19°22'02
inferior conj	2364 May 24 08:45	3° ♄ 29'11	-1°06'11	retrograde	2365 Apr 24 02:11	18° ♄ 29'10	
minimum elong	2364 May 24 05:37	3° ♄ 33'44	1°05'03	evening set	2365 Apr 26 03:38	18° ♄ 16'47	
min. Earth dist.	2364 May 25 17:58	2° ♄ 40'55	0.55067 AU	inferior conj	2365 May 04 15:00	14° ♄ 09'19	0°48'47
	2364 May 31 01:15	30° ♄ 8		minimum elong	2365 May 04 17:00	14° ♄ 06'02	0°48'05
morning rise	2364 Jun 02 05:32	29° ♄ 16'38		desc. node	2365 May 07 11:13	12° ♄ 18'00	
direct	2364 Jun 05 23:35	28° ♄ 46'16		min. Earth dist.	2365 May 07 08:40	12° ♄ 22'02	0.56092 AU
	2364 Jun 11 17:32	0° ♄		morning rise	2365 May 13 03:27	9° ♄ 23'25	
morning max el	2364 Jun 19 09:40	5° ♄ 17'17	23°25'48	direct	2365 May 17 20:25	8° ♄ 32'50	
	2364 Jul 06 16:17	0° ♄		morning max el	2365 Jun 01 00:07	15° ♄ 44'05	25°06'33
asc. node	2364 Jul 09 12:10	5° ♄ 29'41			2365 Jun 12 11:08	0° ♄	
morning set	2364 Jul 12 21:47	12° ♄ 29'19		asc. node	2365 Jun 26 09:11	25° ♄ 17'12	
				morning set	2365 Jun 27 09:35	27° ♄ 25'12	
superior conj	2364 Jul 19 23:01	27° ♄ 37'11	1°30'39		2365 Jun 28 14:42	0° ♄	
minimum elong	2364 Jul 19 20:50	27° ♄ 25'27	1°30'24				
	2364 Jul 21 01:42	0° ♄		superior conj	2365 Jul 04 08:51	12° ♄ 31'19	1°15'23
max. Earth dist.	2364 Jul 22 09:31	2° ♄ 49'03	1.33564 AU	minimum elong	2365 Jul 04 06:27	12° ♄ 18'14	1°15'00
evening rise	2364 Jul 27 12:42	13° ♄ 22'54		max. Earth dist.	2365 Jul 05 15:42	15° ♄ 19'29	1.32704 AU
	2364 Aug 05 09:45	0° ♄		evening rise	2365 Jul 11 12:32	27° ♄ 46'35	
desc. node	2364 Aug 16 13:34	17° ♄ 45'39			2365 Jul 12 14:42	0° ♄	
	2364 Aug 26 00:39	0° ♄			2365 Jul 29 16:06	0° ♄	
evening max el	2364 Aug 30 13:57	4° ♄ 46'33	27°21'38	desc. node	2365 Aug 03 10:35	6° ♄ 43'20	
retrograde	2364 Sep 13 02:20	12° ♄ 04'42		evening max el	2365 Aug 12 23:00	17° ♄ 39'17	27°22'29
evening set	2364 Sep 20 04:39	9° ♄ 22'42		retrograde	2365 Aug 26 17:44	24° ♄ 55'53	
min. Earth dist.	2364 Sep 23 22:04	5° ♄ 58'15	0.64294 AU	evening set	2365 Sep 02 22:35	22° ♄ 26'08	
inferior conj	2364 Sep 26 07:23	3° ♄ 26'11	-2°55'53	min. Earth dist.	2365 Sep 06 12:46	19° ♄ 30'49	0.62554 AU
minimum elong	2364 Sep 26 12:02	3° ♄ 13'50	2°54'16	inferior conj	2365 Sep 09 10:07	16° ♄ 46'25	-3°50'12
	2364 Sep 29 19:30	30° ♄ 8		minimum elong	2365 Sep 09 15:34	16° ♄ 33'27	3°48'45
morning rise	2364 Oct 02 20:30	28° ♄ 01'16		morning rise	2365 Sep 16 10:03	11° ♄ 40'00	
direct	2364 Oct 05 10:23	27° ♄ 27'26		direct	2365 Sep 18 20:27	11° ♄ 13'17	
asc. node	2364 Oct 05 11:20	27° ♄ 27'26		asc. node	2365 Sep 22 08:22	12° ♄ 10'01	
	2364 Oct 10 23:46	0° ♄		morning max el	2365 Sep 25 14:32	14° ♄ 40'09	17°51'50
morning max el	2364 Oct 11 22:37	0° ♄ 53'36	17°56'40		2365 Oct 06 04:30	0° ♄	

morning set	2365 Oct 11 16:54	9° Ω 45'15		morning max el	2366 Sep 09 03:14	28° Ω 09'44	18°05'58
				asc. node	2366 Sep 09 05:25	28° Ω 15'03	
superior conj	2365 Oct 22 23:11	29° Ω 26'35	0°49'33		2366 Sep 10 20:31	0° Π	
minimum elong	2365 Oct 23 03:23	29° Ω 44'20	0°48'59	morning set	2366 Sep 24 23:12	23° Π 13'47	
	2365 Oct 23 07:05	0° Π			2366 Sep 28 14:18	0° Ω	
max. Earth dist.	2365 Oct 29 23:06	11° Π 01'58	1.43358 AU				
desc. node	2365 Oct 30 09:53	11° Π 45'39		superior conj	2366 Oct 04 17:54	11° Ω 13'24	1°19'02
evening rise	2365 Nov 06 20:15	23° Π 32'13		minimum elong	2366 Oct 04 22:06	11° Ω 32'08	1°18'35
	2365 Nov 11 00:59	0° \mathcal{A}		max. Earth dist.	2366 Oct 12 09:02	24° Ω 26'25	1.41630 AU
	2365 Dec 01 23:06	0° \mathcal{B}			2366 Oct 15 17:36	0° Π	
evening max el	2365 Dec 07 12:55	6° \mathcal{B} 28'56	21°25'44	desc. node	2366 Oct 17 06:55	2° Π 31'32	
retrograde	2365 Dec 16 08:53	11° \mathcal{B} 43'57		evening rise	2366 Oct 17 18:56	3° Π 19'58	
asc. node	2365 Dec 19 07:37	10° \mathcal{B} 56'02			2366 Nov 04 09:57	0° \mathcal{A}	
evening set	2365 Dec 20 13:33	10° \mathcal{B} 05'49		evening max el	2366 Nov 20 06:01	20° \mathcal{A} 01'57	22°43'12
inferior conj	2365 Dec 25 22:02	3° \mathcal{B} 50'23	2°06'25	retrograde	2366 Nov 30 04:09	25° \mathcal{A} 55'29	
minimum elong	2365 Dec 25 19:38	3° \mathcal{B} 58'40	2°05'35	evening set	2366 Dec 04 20:51	24° \mathcal{A} 00'49	
min. Earth dist.	2365 Dec 26 04:05	3° \mathcal{B} 29'26	0.67692 AU	asc. node	2366 Dec 06 04:38	22° \mathcal{A} 46'12	
	2365 Dec 28 19:32	30° \mathcal{R} \mathcal{A}		inferior conj	2366 Dec 10 05:33	17° \mathcal{A} 39'09	1°20'50
morning rise	2365 Dec 31 01:33	27° \mathcal{A} 37'44		minimum elong	2366 Dec 10 03:48	17° \mathcal{A} 45'12	1°20'08
direct	2366 Jan 05 04:19	25° \mathcal{A} 24'52		min. Earth dist.	2366 Dec 10 00:34	17° \mathcal{A} 56'21	0.67866 AU
	2366 Jan 13 21:16	0° \mathcal{B}		morning rise	2366 Dec 15 10:37	11° \mathcal{A} 29'18	
morning max el	2366 Jan 15 11:52	1° \mathcal{B} 33'03	23°18'14	direct	2366 Dec 19 22:39	9° \mathcal{A} 39'11	
desc. node	2366 Jan 26 09:04	14° \mathcal{B} 43'09		morning max el	2366 Dec 29 00:25	14° \mathcal{A} 58'40	21°51'37
	2366 Feb 06 00:44	0° \approx			2367 Jan 10 02:02	0° \mathcal{B}	
morning set	2366 Feb 19 11:09	21° \approx 22'34		desc. node	2367 Jan 13 06:07	4° \mathcal{B} 29'13	
max. Earth dist.	2366 Feb 23 15:24	28° \approx 31'06	1.39315 AU	morning set	2367 Jan 30 11:57	0° \approx 42'15	
	2366 Feb 24 11:45	0° \mathcal{H}			2367 Jan 30 01:23	0° \approx	
				max. Earth dist.	2367 Feb 05 13:46	10° \approx 37'34	1.41440 AU
superior conj	2366 Mar 03 06:08	12° \mathcal{H} 12'48	-1°51'13				
minimum elong	2366 Mar 03 10:15	12° \mathcal{H} 31'54	1°50'52	superior conj	2367 Feb 13 06:38	23° \approx 48'45	-2°03'55
evening rise	2366 Mar 12 16:00	0° \mathcal{Y} 09'38		minimum elong	2367 Feb 13 08:31	23° \approx 57'03	2°03'52
	2366 Mar 12 14:00	0° \mathcal{Y}			2367 Feb 16 18:05	0° \mathcal{H}	
asc. node	2366 Mar 17 06:57	8° \mathcal{Y} 56'42		evening rise	2367 Feb 23 22:10	13° \mathcal{H} 07'37	
evening max el	2366 Mar 28 22:12	26° \mathcal{Y} 20'48	18°37'28	asc. node	2367 Mar 04 03:59	27° \mathcal{H} 56'15	
	2366 Apr 04 00:55	0° \mathcal{B}			2367 Mar 05 10:01	0° \mathcal{Y}	
retrograde	2366 Apr 05 18:22	0° \mathcal{B} 11'01		evening max el	2367 Mar 12 06:31	9° \mathcal{Y} 08'34	18°12'50
	2366 Apr 07 12:38	30° \mathcal{R} \mathcal{Y}		retrograde	2367 Mar 19 05:01	12° \mathcal{Y} 37'35	
evening set	2366 Apr 08 01:37	29° \mathcal{Y} 52'21		evening set	2367 Mar 21 18:24	12° \mathcal{Y} 09'58	
inferior conj	2366 Apr 15 17:21	25° \mathcal{Y} 26'52	2°17'07	inferior conj	2367 Mar 28 16:38	7° \mathcal{Y} 23'29	3°12'00
minimum elong	2366 Apr 15 21:18	25° \mathcal{Y} 19'19	2°16'02	minimum elong	2367 Mar 28 19:43	7° \mathcal{Y} 16'35	3°11'27
min. Earth dist.	2366 Apr 19 02:36	22° \mathcal{Y} 52'35	0.57830 AU	min. Earth dist.	2367 Apr 01 01:33	4° \mathcal{Y} 24'18	0.59937 AU
morning rise	2366 Apr 23 13:51	20° \mathcal{Y} 07'57		morning rise	2367 Apr 04 18:47	1° \mathcal{Y} 40'19	
desc. node	2366 Apr 24 08:13	19° \mathcal{Y} 47'36			2367 Apr 08 16:52	30° \mathcal{R} \mathcal{H}	
direct	2366 Apr 29 07:43	18° \mathcal{Y} 45'03		direct	2367 Apr 11 07:26	29° \mathcal{H} 41'01	
morning max el	2366 May 13 16:40	26° \mathcal{Y} 21'24	26°32'15	desc. node	2367 Apr 11 05:15	29° \mathcal{H} 41'03	
	2366 May 17 03:26	0° \mathcal{B}			2367 Apr 13 23:22	0° \mathcal{Y}	
	2366 Jun 05 17:34	0° Π		morning max el	2367 Apr 25 14:50	7° \mathcal{Y} 30'36	27°29'23
morning set	2366 Jun 11 20:14	12° Π 16'30			2367 May 12 14:53	0° \mathcal{B}	
asc. node	2366 Jun 13 06:14	15° Π 16'54		morning set	2367 May 27 04:00	26° \mathcal{B} 56'50	
					2367 May 28 14:56	0° Π	
superior conj	2366 Jun 18 20:26	27° Π 28'44	0°56'00	asc. node	2367 May 31 03:17	5° Π 23'18	
minimum elong	2366 Jun 18 18:19	27° Π 17'02	0°55'36	max. Earth dist.	2367 Jun 02 14:44	10° Π 47'47	1.32170 AU
max. Earth dist.	2366 Jun 19 02:38	28° Π 02'53	1.32245 AU				
	2366 Jun 19 23:56	0° \mathcal{B}		superior conj	2367 Jun 03 08:01	12° Π 22'44	0°33'13
evening rise	2366 Jun 25 18:34	12° \mathcal{B} 27'27		minimum elong	2367 Jun 03 06:35	12° Π 14'53	0°32'56
	2366 Jul 04 18:02	0° Ω		evening rise	2367 Jun 10 04:25	27° Π 17'04	
desc. node	2366 Jul 21 07:34	24° Ω 45'18			2367 Jun 11 11:26	0° \mathcal{B}	
evening max el	2366 Jul 26 03:03	29° Ω 52'09	26°50'19		2367 Jun 28 12:06	0° Ω	
	2366 Jul 26 06:22	0° Π		evening max el	2367 Jul 08 00:09	11° Ω 18'16	25°46'31
retrograde	2366 Aug 09 01:39	7° Π 05'09		desc. node	2367 Jul 08 04:33	11° Ω 28'44	
evening set	2366 Aug 15 23:15	5° Π 01'16		retrograde	2367 Jul 22 00:13	18° Ω 26'53	
min. Earth dist.	2366 Aug 19 17:08	2° Π 22'56	0.60567 AU	evening set	2367 Jul 28 01:58	16° Ω 59'21	
inferior conj	2366 Aug 22 22:52	29° Ω 41'08	-4°34'29	min. Earth dist.	2367 Aug 01 12:26	14° Ω 21'02	0.58507 AU
minimum elong	2366 Aug 23 03:36	29° Ω 31'16	4°33'43	inferior conj	2367 Aug 04 18:09	12° Ω 00'50	-4°59'07
	2366 Aug 22 13:54	30° \mathcal{R} Ω		minimum elong	2367 Aug 04 19:40	11° Ω 58'05	4°59'03
morning rise	2366 Aug 30 09:50	24° Ω 55'57		morning rise	2367 Aug 12 15:37	7° Ω 38'26	
direct	2366 Sep 01 19:37	24° Ω 33'33		direct	2367 Aug 15 03:38	7° Ω 18'17	

morning max el	2367 Aug 23 09:33	11°♎13'44	18°40'29	direct	2368 Jul 26 16:41	19°♏15'25	
asc. node	2367 Aug 27 02:30	15°♎27'49		morning max el	2368 Aug 05 06:29	23°♏42'24	19°36'24
	2367 Sep 04 22:07	0°♎			2368 Aug 10 14:48	0°♎	
morning set	2367 Sep 08 17:06	7°♎16'07		asc. node	2368 Aug 12 23:35	3°♎33'14	
				morning set	2368 Aug 22 18:57	21°♎41'46	
					2368 Aug 26 21:39	0°♎	
superior conj	2367 Sep 17 10:03	24°♎03'45	1°36'54	superior conj	2368 Aug 30 18:02	7°♎41'29	1°44'45
minimum elong	2367 Sep 17 12:41	24°♎16'10	1°36'44	minimum elong	2368 Aug 30 18:49	7°♎45'19	1°44'44
	2367 Sep 20 14:50	0°♎		max. Earth dist.	2368 Sep 05 18:56	19°♎16'15	1.37574 AU
max. Earth dist.	2367 Sep 24 14:41	7°♎09'52	1.39618 AU	evening rise	2368 Sep 09 13:17	26°♎07'20	
evening rise	2367 Sep 28 16:24	14°♎11'02			2368 Sep 11 18:12	0°♎	
desc. node	2367 Oct 04 03:56	23°♎12'18		desc. node	2368 Sep 20 00:57	13°♎43'13	
	2367 Oct 08 11:41	0°♎			2368 Oct 01 00:36	0°♎	
	2367 Oct 30 09:41	0°♎		evening max el	2368 Oct 15 07:43	17°♎18'05	25°18'48
evening max el	2367 Nov 02 19:40	3°♎38'45	24°03'07	retrograde	2368 Oct 27 07:41	24°♎13'21	
retrograde	2367 Nov 13 20:04	10°♎07'01		evening set	2368 Nov 02 04:10	21°♎46'15	
evening set	2367 Nov 19 02:18	7°♎55'25		min. Earth dist.	2368 Nov 06 14:50	16°♎49'43	0.67192 AU
asc. node	2367 Nov 23 01:41	3°♎28'35		inferior conj	2368 Nov 07 17:14	15°♎24'07	-0°25'26
min. Earth dist.	2367 Nov 23 20:57	2°♎24'13	0.67698 AU	minimum elong	2368 Nov 07 17:52	15°♎22'01	0°25'09
inferior conj	2367 Nov 24 12:32	1°♎31'29	0°29'49	asc. node	2368 Nov 08 22:45	13°♎49'37	
minimum elong	2367 Nov 24 11:50	1°♎33'53	0°29'31	morning rise	2368 Nov 13 07:49	9°♎26'44	
	2367 Nov 25 15:52	30°♎		direct	2368 Nov 16 18:09	8°♎18'50	
morning rise	2367 Nov 29 21:22	25°♎26'39		morning max el	2368 Nov 23 23:29	12°♎23'07	19°29'20
direct	2367 Dec 03 19:44	23°♎58'51			2368 Dec 07 04:03	0°♎	
morning max el	2367 Dec 11 19:59	28°♎35'35	20°33'56	greatest brilliancy	2368 Dec 07 08:14	0°♎15'44	-0.7m
	2367 Dec 13 04:06	0°♎		desc. node	2368 Dec 17 00:13	15°♎02'34	
desc. node	2367 Dec 31 03:11	24°♎38'03		morning set	2368 Dec 18 11:02	17°♎17'11	
	2368 Jan 03 16:30	0°♎			2368 Dec 26 15:04	0°♎	
morning set	2368 Jan 09 12:59	8°♎59'26		max. Earth dist.	2368 Dec 31 09:33	7°♎30'31	1.44540 AU
max. Earth dist.	2368 Jan 18 20:15	23°♎42'14	1.43263 AU				
	2368 Jan 22 16:57	0°♎					
superior conj	2368 Jan 25 06:58	4°♎16'55	-2°03'02	superior conj	2369 Jan 04 05:04	13°♎34'33	-1°44'01
minimum elong	2368 Jan 25 04:01	4°♎04'40	2°02'57	minimum elong	2369 Jan 03 21:00	13°♎02'20	1°43'23
evening rise	2368 Feb 06 12:37	25°♎20'08			2369 Jan 14 07:11	0°♎	
	2368 Feb 09 04:12	0°♎		evening rise	2369 Jan 18 06:56	6°♎38'42	
asc. node	2368 Feb 19 01:00	16°♎22'59			2369 Feb 01 17:49	0°♎	
evening max el	2368 Feb 23 18:25	22°♎16'15	18°07'44	asc. node	2369 Feb 04 22:03	4°♎06'48	
retrograde	2368 Mar 01 06:38	25°♎39'39		evening max el	2369 Feb 06 06:56	5°♎36'12	18°21'39
evening set	2368 Mar 04 01:22	25°♎01'49		retrograde	2369 Feb 12 18:32	9°♎07'14	
inferior conj	2368 Mar 10 09:56	19°♎54'33	3°37'47	evening set	2369 Feb 15 18:33	8°♎18'20	
minimum elong	2368 Mar 10 11:07	19°♎51'31	3°37'42	inferior conj	2369 Feb 21 17:09	2°♎52'00	3°41'27
min. Earth dist.	2368 Mar 13 08:24	16°♎55'25	0.62070 AU	minimum elong	2369 Feb 21 16:32	2°♎53'45	3°41'26
morning rise	2368 Mar 16 19:31	13°♎56'13		min. Earth dist.	2369 Feb 24 00:53	0°♎13'18	0.63978 AU
direct	2368 Mar 23 17:06	11°♎26'28			2369 Feb 24 05:42	30°♎	
desc. node	2368 Mar 28 02:19	12°♎20'37		morning rise	2369 Feb 27 13:49	26°♎45'08	
morning max el	2368 Apr 06 19:17	19°♎22'06	27°50'09	direct	2369 Mar 06 11:02	23°♎57'23	
	2368 Apr 15 20:14	0°♎		desc. node	2369 Mar 14 23:23	27°♎20'22	
	2368 May 04 11:51	0°♎			2369 Mar 18 05:09	0°♎	
morning set	2368 May 10 06:54	11°♎19'53		morning max el	2369 Mar 20 03:58	1°♎51'54	27°34'01
max. Earth dist.	2368 May 16 00:05	23°♎20'58	1.32489 AU		2369 Apr 10 01:15	0°♎	
asc. node	2368 May 17 00:20	25°♎32'12		morning set	2369 Apr 24 02:27	25°♎18'03	
					2369 Apr 26 10:41	0°♎	
superior conj	2368 May 17 17:55	27°♎07'43	0°07'44	max. Earth dist.	2369 Apr 29 02:38	5°♎29'53	1.33228 AU
minimum elong	2368 May 17 17:33	27°♎05'44	0°07'40				
behind sun begin	2368 May 17 13:01	26°♎41'01		superior conj	2369 May 02 00:17	11°♎38'04	-0°19'39
behind sun end	2368 May 17 22:05	27°♎30'27		minimum elong	2369 May 02 01:16	11°♎43'18	0°19'27
	2368 May 19 01:31	0°♎		asc. node	2369 May 03 21:23	15°♎39'45	
evening rise	2368 May 24 16:05	12°♎08'34		evening rise	2369 May 09 03:42	26°♎55'51	
	2368 Jun 02 17:39	0°♎			2369 May 10 14:54	0°♎	
evening max el	2368 Jun 18 14:55	22°♎02'36	24°19'15		2369 May 28 19:43	0°♎	
desc. node	2368 Jun 24 01:34	26°♎22'26		evening max el	2369 May 31 05:06	2°♎30'24	22°42'58
retrograde	2368 Jul 02 11:24	29°♎02'08		desc. node	2369 Jun 10 22:36	8°♎50'50	
evening set	2368 Jul 07 05:01	28°♎12'09		retrograde	2369 Jun 13 10:31	9°♎05'06	
min. Earth dist.	2368 Jul 13 01:45	25°♎16'21	0.56651 AU	evening set	2369 Jun 16 16:31	8°♎41'53	
inferior conj	2368 Jul 15 17:18	23°♎36'23	-4°50'22	min. Earth dist.	2369 Jun 24 13:15	5°♎14'52	0.55343 AU
minimum elong	2368 Jul 15 13:26	23°♎42'30	4°49'58	inferior conj	2369 Jun 25 21:45	4°♎28'21	-3°55'13
morning rise	2368 Jul 24 00:31	19°♎34'33		minimum elong	2369 Jun 25 13:53	4°♎39'37	3°53'20

morning rise	2369 Jul 04 13:34	0°☿36'42		morning rise	2370 Jun 14 12:48	10°♊52'18	
direct	2369 Jul 07 11:22	0°☿17'07		direct	2370 Jun 17 21:09	10°♊28'01	
morning max el	2369 Jul 18 16:12	5°☿28'56	20°53'12	morning max el	2370 Jun 30 14:55	16°♊31'44	22°27'11
asc. node	2369 Jul 30 20:39	22°☿18'57			2370 Jul 11 05:07	0°☿	
	2369 Aug 03 22:14	0°♎		asc. node	2370 Jul 17 17:41	11°☿34'22	
morning set	2369 Aug 07 02:05	6°♎23'26		morning set	2370 Jul 22 12:23	21°☿14'27	
					2370 Jul 26 15:26	0°♎	
superior conj	2369 Aug 14 13:17	21°♎53'17	1°44'21	superior conj	2370 Jul 29 16:12	6°♎27'36	1°37'16
minimum elong	2369 Aug 14 12:30	21°♎49'17	1°44'20	minimum elong	2370 Jul 29 14:23	6°♎17'55	1°37'07
	2369 Aug 18 13:46	0°♏			2370 Aug 01 20:09	13°♎05'16	1.34240 AU
max. Earth dist.	2369 Aug 19 03:16	1°♏06'35	1.35732 AU	max. Earth dist.	2370 Aug 06 13:57	22°♎37'42	
evening rise	2369 Aug 23 06:02	9°♏00'32		evening rise	2370 Aug 10 10:55	0°♏	
	2369 Sep 04 09:00	0°♐			2370 Aug 24 18:59	23°♏52'32	
desc. node	2369 Sep 06 21:57	3°♐59'02		desc. node	2370 Aug 29 01:58	0°♐	
	2369 Sep 26 20:38	0°♑			2370 Sep 10 08:04	14°♐28'17	27°07'34
evening max el	2369 Sep 27 19:47	0°♑57'10	26°22'46	evening max el	2370 Sep 23 15:42	21°♐46'19	
retrograde	2369 Oct 10 14:28	8°♑08'57		retrograde	2370 Sep 30 13:10	19°♐03'04	
evening set	2369 Oct 17 00:34	5°♑30'16		evening set	2370 Oct 04 09:55	15°♐18'29	0.65137 AU
min. Earth dist.	2369 Oct 21 03:55	1°♑09'40	0.66342 AU	min. Earth dist.	2370 Oct 06 11:52	12°♐58'08	-2°22'31
	2369 Oct 22 02:50	30°♑♐		inferior conj	2370 Oct 06 15:43	12°♐47'19	2°21'03
inferior conj	2369 Oct 22 17:43	29°♐14'25	-1°23'30	minimum elong	2370 Oct 12 19:08	7°♐23'50	
minimum elong	2369 Oct 22 19:57	29°♐07'37	1°22'33	morning rise	2370 Oct 13 16:52	7°♐02'03	
asc. node	2369 Oct 26 19:50	24°♐46'43		asc. node	2370 Oct 15 12:06	6°♐44'34	
morning rise	2369 Oct 28 15:52	23°♐27'04		direct	2370 Oct 22 00:21	10°♐14'31	18°07'32
direct	2369 Oct 31 16:19	22°♐35'26		morning max el	2370 Nov 04 15:48	0°♑	
morning max el	2369 Nov 07 09:43	26°♐17'56	18°40'07		2370 Nov 09 05:26	7°♑33'10	
	2369 Nov 10 15:03	0°♒		morning set	2370 Nov 20 18:16	26°♑21'12	
morning set	2369 Nov 28 05:32	26°♑41'01		desc. node	2370 Nov 23 01:06	0°♒	
	2369 Nov 30 07:44	0°♓					
desc. node	2369 Dec 03 21:14	5°♓38'09		superior conj	2370 Nov 23 13:44	0°♓50'12	-0°18'53
				minimum elong	2370 Nov 23 11:21	0°♓40'42	0°18'33
superior conj	2369 Dec 14 08:48	22°♓07'11	-1°06'39	max. Earth dist.	2370 Nov 26 22:02	6°♓07'43	1.44994 AU
minimum elong	2369 Dec 14 00:48	21°♓35'45	1°05'41	evening rise	2370 Dec 09 23:21	26°♓29'29	
max. Earth dist.	2369 Dec 14 03:02	21°♓44'31	1.45136 AU		2370 Dec 12 05:43	0°♔	
	2369 Dec 19 09:06	0°♕		greatest brilliancy	2370 Dec 22 23:28	16°♔26'48	-0.7m
evening rise	2369 Dec 30 02:00	16°♔59'11			2371 Jan 01 17:46	0°♕	
greatest brilliancy	2370 Jan 07 00:01	29°♔38'32	-0.8m	evening max el	2371 Jan 04 00:20	2°♕32'28	19°42'01
	2370 Jan 07 05:25	0°♖		asc. node	2371 Jan 09 16:07	6°♕33'16	
evening max el	2370 Jan 20 17:34	19°♖02'37	18°53'36	retrograde	2371 Jan 11 09:47	6°♕49'48	
asc. node	2370 Jan 22 19:05	20°♖54'56		evening set	2371 Jan 14 23:19	5°♕35'28	
retrograde	2370 Jan 27 12:37	22°♖52'14		inferior conj	2371 Jan 20 10:43	29°♔37'25	3°03'58
evening set	2370 Jan 30 18:42	21°♖51'17		minimum elong	2371 Jan 20 08:13	29°♔45'39	3°03'24
inferior conj	2370 Feb 05 10:27	16°♖07'55	3°28'49		2371 Jan 20 03:52	30°♑♔	
minimum elong	2370 Feb 05 08:35	16°♖13'42	3°28'34	min. Earth dist.	2371 Jan 21 12:30	28°♔12'19	0.66691 AU
min. Earth dist.	2370 Feb 07 02:43	14°♖02'51	0.65534 AU	morning rise	2371 Jan 25 16:54	23°♔24'23	
morning rise	2370 Feb 10 22:06	9°♖56'42		direct	2371 Jan 31 18:49	20°♔41'48	
direct	2370 Feb 17 11:59	7°♖05'16		morning max el	2371 Feb 12 22:50	27°♔56'36	25°34'20
desc. node	2370 Mar 01 20:25	14°♖04'12			2371 Feb 14 21:46	0°♕	
morning max el	2370 Mar 02 13:49	14°♖47'18	26°45'55	desc. node	2371 Feb 16 17:27	2°♕02'50	
	2370 Mar 15 00:34	0°♗			2371 Mar 08 17:49	0°♗	
	2370 Apr 02 18:56	0°♘		morning set	2371 Mar 21 04:54	21°♗13'20	
morning set	2370 Apr 07 11:15	8°♘40'07		max. Earth dist.	2371 Mar 24 22:49	28°♗11'09	1.36075 AU
max. Earth dist.	2370 Apr 11 18:35	17°♘04'37	1.34423 AU		2371 Mar 25 21:40	0°♙	
				superior conj	2371 Mar 30 17:11	9°♙25'34	-1°15'17
superior conj	2370 Apr 16 00:55	25°♙46'26	-0°47'50	minimum elong	2371 Mar 30 20:56	9°♙44'19	1°14'41
minimum elong	2370 Apr 16 03:22	25°♙59'08	0°47'22	evening rise	2371 Apr 07 18:53	25°♙50'14	
	2370 Apr 18 01:31	0°♚		asc. node	2371 Apr 07 15:25	25°♙32'37	
asc. node	2370 Apr 20 18:24	5°♚41'14			2371 Apr 09 20:30	0°♚	
evening rise	2370 Apr 23 13:19	11°♚31'45		evening max el	2371 Apr 25 11:15	24°♚32'32	19°56'46
	2370 May 03 04:57	0°♛		retrograde	2371 May 05 15:34	29°♚28'01	
evening max el	2370 May 13 02:26	13°♛13'29	21°12'19	evening set	2371 May 07 15:48	29°♚17'21	
retrograde	2370 May 25 00:20	19°♛02'38		desc. node	2371 May 15 16:38	25°♚48'57	
evening set	2370 May 27 06:40	18°♛50'46		inferior conj	2371 May 16 13:41	25°♚17'11	-0°15'22
desc. node	2370 May 28 19:38	18°♛29'53		minimum elong	2371 May 16 12:59	25°♚18'15	0°15'06
inferior conj	2370 Jun 05 15:49	14°♛52'03	-2°15'01	transit middle	2371 May 16 12:59	25°♚18'15	0°15'06
minimum elong	2370 Jun 05 09:37	15°♛00'46	2°12'55				
min. Earth dist.	2370 Jun 06 01:22	14°♛38'36	0.54888 AU				

transit begin	2371 May 16 11:42	25°♄20'11		minimum elong	2372 Apr 26 07:08	6°♄05'41	1°29'19
transit end	2371 May 16 14:16	25°♄16'18		min. Earth dist.	2372 Apr 29 06:14	4°♄02'14	0.56768 AU
min. Earth dist.	2371 May 18 14:44	24°♄02'56	0.55404 AU	desc. node	2372 May 01 13:38	2°♄35'23	
morning rise	2371 May 25 08:07	20°♄51'25		morning rise	2372 May 04 10:14	1°♄11'04	
direct	2371 May 29 11:29	20°♄13'46		direct	2372 May 09 14:09	0°♄08'05	
morning max el	2371 Jun 12 06:25	27°♄03'35	24°09'25	morning max el	2372 May 23 21:01	7°♄30'49	25°45'52
	2371 Jun 15 03:02	0°♄			2372 Jun 09 12:27	0°♄	
	2371 Jul 04 00:32	0°♄		morning set	2372 Jun 20 11:36	21°♄04'30	
asc. node	2371 Jul 04 14:42	1°♄11'51		asc. node	2372 Jun 20 11:44	21°♄05'13	
morning set	2371 Jul 07 00:04	6°♄09'45			2372 Jun 24 15:01	0°♄	
superior conj	2371 Jul 14 00:07	21°♄16'10	1°24'42	superior conj	2372 Jun 27 10:55	6°♄12'19	1°07'36
minimum elong	2371 Jul 13 21:47	21°♄03'31	1°24'24	minimum elong	2372 Jun 27 08:34	5°♄59'30	1°07'13
max. Earth dist.	2371 Jul 15 22:14	25°♄24'41	1.33152 AU	max. Earth dist.	2372 Jun 28 07:07	8°♄03'04	1.32462 AU
	2371 Jul 18 02:04	0°♄		evening rise	2372 Jul 04 11:46	21°♄19'20	
evening rise	2371 Jul 21 08:57	6°♄47'14			2372 Jul 08 19:18	0°♄	
	2371 Aug 02 23:50	0°♄			2372 Jul 27 02:55	0°♄	
desc. node	2371 Aug 11 15:59	13°♄13'59		desc. node	2372 Jul 28 12:59	1°♄50'24	
evening max el	2371 Aug 23 19:11	27°♄39'21	27°26'02	evening max el	2372 Aug 05 02:33	10°♄16'56	27°12'57
	2371 Aug 26 10:46	0°♄		retrograde	2372 Aug 18 22:44	17°♄31'19	
retrograde	2371 Sep 06 10:40	4°♄56'35		evening set	2372 Aug 26 02:07	15°♄10'57	
evening set	2371 Sep 13 14:56	2°♄18'37		min. Earth dist.	2372 Aug 29 16:44	12°♄24'54	0.61732 AU
	2371 Sep 16 08:44	30°♄		inferior conj	2372 Sep 01 18:20	9°♄39'41	-4°10'42
min. Earth dist.	2371 Sep 17 06:36	29°♄07'20	0.63587 AU	minimum elong	2372 Sep 01 23:44	9°♄27'32	4°09'29
inferior conj	2371 Sep 19 21:05	26°♄28'55	-3°19'44	morning rise	2372 Sep 08 22:58	4°♄41'58	
minimum elong	2371 Sep 20 02:12	26°♄15'55	3°18'07	direct	2372 Sep 11 08:54	4°♄17'15	
morning rise	2371 Sep 26 14:41	21°♄11'08		asc. node	2372 Sep 16 10:57	6°♄10'49	
direct	2371 Sep 29 02:47	20°♄40'37		morning max el	2372 Sep 18 07:32	7°♄46'38	17°55'32
asc. node	2371 Sep 30 13:55	20°♄51'14			2372 Oct 02 16:48	0°♄	
morning max el	2371 Oct 05 16:35	24°♄06'12	17°52'22	morning set	2372 Oct 04 05:01	2°♄44'41	
	2371 Oct 10 10:35	0°♄					
morning set	2371 Oct 22 07:22	19°♄40'40		superior conj	2372 Oct 14 18:51	21°♄38'31	1°03'31
	2371 Oct 28 07:16	0°♄		minimum elong	2372 Oct 14 23:21	21°♄57'58	1°02'58
superior conj	2371 Nov 03 14:43	10°♄34'10	0°27'12		2372 Oct 19 16:45	0°♄	
minimum elong	2371 Nov 03 17:31	10°♄45'44	0°26'48	max. Earth dist.	2372 Oct 22 05:20	4°♄11'00	1.42674 AU
desc. node	2371 Nov 07 15:18	17°♄07'52		desc. node	2372 Oct 24 12:20	7°♄55'11	
max. Earth dist.	2371 Nov 09 15:45	20°♄22'31	1.44138 AU	evening rise	2372 Oct 28 21:49	14°♄55'54	
	2371 Nov 15 18:05	0°♄			2372 Nov 07 18:01	0°♄	
evening rise	2371 Nov 19 08:29	5°♄34'46		evening max el	2372 Nov 29 21:42	29°♄34'50	21°57'52
	2371 Dec 05 15:43	0°♄			2372 Nov 30 07:44	0°♄	
evening max el	2371 Dec 18 01:50	16°♄03'12	20°44'35	retrograde	2372 Dec 09 04:24	5°♄06'11	
retrograde	2371 Dec 26 07:38	20°♄55'26		asc. node	2372 Dec 13 10:11	3°♄28'35	
asc. node	2371 Dec 27 13:09	20°♄47'01		evening set	2372 Dec 13 14:04	3°♄20'52	
evening set	2371 Dec 30 06:21	19°♄26'14			2372 Dec 16 17:43	30°♄	
inferior conj	2372 Jan 04 15:25	13°♄16'14	2°29'40	inferior conj	2372 Dec 18 22:27	27°♄02'13	1°47'49
minimum elong	2372 Jan 04 12:50	13°♄25'02	2°28'53	minimum elong	2372 Dec 18 20:17	27°♄09'44	1°47'01
min. Earth dist.	2372 Jan 05 04:13	12°♄32'26	0.67443 AU	min. Earth dist.	2372 Dec 18 23:38	26°♄58'08	0.67815 AU
morning rise	2372 Jan 09 19:09	7°♄03'09		morning rise	2372 Dec 24 02:22	20°♄50'42	
direct	2372 Jan 15 06:38	4°♄38'08		direct	2372 Dec 28 22:45	18°♄47'39	
morning max el	2372 Jan 26 07:11	11°♄12'28	24°09'16	morning max el	2373 Jan 07 17:24	24°♄34'35	22°40'43
desc. node	2372 Feb 03 14:29	20°♄54'15			2373 Jan 12 13:34	0°♄	
	2372 Feb 10 07:05	0°♄		desc. node	2373 Jan 20 11:33	10°♄23'42	
	2372 Feb 29 12:02	0°♄			2373 Feb 02 18:27	0°♄	
morning set	2372 Mar 02 01:38	2°♄41'28		morning set	2373 Feb 10 19:28	12°♄50'10	
max. Earth dist.	2372 Mar 05 19:13	9°♄16'08	1.38088 AU	max. Earth dist.	2373 Feb 15 15:10	20°♄54'29	1.40245 AU
					2373 Feb 20 20:23	0°♄	
superior conj	2372 Mar 12 21:37	22°♄25'45	-1°39'44	superior conj	2373 Feb 23 09:50	4°♄36'07	-1°57'56
minimum elong	2372 Mar 13 02:00	22°♄46'40	1°39'13	minimum elong	2373 Feb 23 13:19	4°♄51'57	1°57'43
	2372 Mar 16 19:25	0°♄		evening rise	2373 Mar 05 07:20	23°♄05'20	
evening rise	2372 Mar 21 17:54	9°♄43'57			2373 Mar 08 23:33	0°♄	
asc. node	2372 Mar 24 12:27	15°♄08'45		asc. node	2373 Mar 11 09:29	4°♄23'58	
	2372 Apr 02 00:37	0°♄		evening max el	2373 Mar 21 12:05	19°♄03'30	18°24'27
evening max el	2372 Apr 07 07:19	6°♄31'02	19°00'31	retrograde	2373 Mar 28 21:44	22°♄43'04	
retrograde	2372 Apr 15 21:06	10°♄40'59		evening set	2373 Mar 31 07:33	22°♄20'54	
evening set	2372 Apr 18 00:57	10°♄26'13		inferior conj	2373 Apr 07 15:23	17°♄46'20	2°44'24
inferior conj	2372 Apr 26 03:53	6°♄11'24	1°30'22	minimum elong	2373 Apr 07 19:12	17°♄38'29	2°43'30

min. Earth dist.	2373 Apr 11 01:59	14° Υ 58'25	0.58701 AU	morning rise	2374 Mar 27 17:38	24° Υ 08'50	
morning rise	2373 Apr 15 04:02	12° Υ 15'34		direct	2374 Apr 03 11:14	21° Υ 55'07	
desc. node	2373 Apr 18 10:41	10° Υ 58'36		desc. node	2374 Apr 05 07:44	22° Υ 04'44	
direct	2373 Apr 21 06:44	10° Υ 37'22		morning max el	2374 Apr 17 17:08	29° Υ 49'02	27°42'46
morning max el	2373 May 05 15:58	18° Υ 20'35	27°00'50		2374 Apr 17 21:33	0° Υ	
	2373 May 15 10:16	0° Υ			2374 May 09 09:31	0° Υ	
	2373 Jun 02 00:39	0° Υ		morning set	2374 May 20 03:16	20° Υ 26'46	
morning set	2373 Jun 04 21:16	5° Υ 52'12			2374 May 24 15:38	0° Υ	
asc. node	2373 Jun 07 08:46	11° Υ 08'24		asc. node	2374 May 25 05:50	1° Υ 16'53	
				max. Earth dist.	2374 May 26 06:23	3° Υ 30'30	1.32254 AU
superior conj	2373 Jun 11 22:42	21° Υ 09'02	0°46'42				
minimum elong	2373 Jun 11 20:49	20° Υ 58'41	0°46'20	superior conj	2374 May 27 09:49	6° Υ 00'34	0°22'42
max. Earth dist.	2373 Jun 11 19:04	20° Υ 49'03	1.32161 AU	minimum elong	2374 May 27 08:48	5° Υ 54'59	0°22'29
	2373 Jun 15 23:33	0° Υ		evening rise	2374 Jun 03 06:32	20° Υ 56'13	
evening rise	2373 Jun 18 19:40	6° Υ 04'39			2374 Jun 07 16:15	0° Υ	
	2373 Jul 01 10:13	0° Υ			2374 Jun 26 18:22	0° Υ	
desc. node	2373 Jul 15 10:00	19° Υ 22'20		evening max el	2374 Jun 29 21:25	3° Υ 15'32	25°11'28
evening max el	2373 Jul 18 03:30	22° Υ 09'12	26°26'42	desc. node	2374 Jul 02 07:00	5° Υ 23'29	
retrograde	2373 Aug 01 02:58	29° Υ 21'07		retrograde	2374 Jul 13 21:22	10° Υ 22'10	
evening set	2373 Aug 07 17:58	27° Υ 31'23		evening set	2374 Jul 19 10:26	9° Υ 11'15	
min. Earth dist.	2373 Aug 11 16:43	24° Υ 55'38	0.59683 AU	min. Earth dist.	2374 Jul 24 09:12	6° Υ 27'09	0.57670 AU
inferior conj	2373 Aug 15 00:02	22° Υ 20'18	-4°48'06	inferior conj	2374 Jul 27 10:53	4° Υ 21'50	-5°00'25
minimum elong	2373 Aug 15 03:45	22° Υ 13'00	4°47'40	minimum elong	2374 Jul 27 10:16	4° Υ 22'54	5°00'23
morning rise	2373 Aug 22 15:37	17° Υ 45'12		morning rise	2374 Aug 04 12:39	0° Υ 08'53	
direct	2373 Aug 25 02:03	17° Υ 23'59			2374 Aug 05 05:03	30° Υ 00	
morning max el	2373 Sep 01 17:58	21° Υ 06'43	18°18'11	direct	2374 Aug 07 02:00	29° Υ 49'28	
asc. node	2373 Sep 03 08:01	22° Υ 46'30			2374 Aug 08 22:03	0° Υ	
	2373 Sep 08 13:07	0° Υ		morning max el	2374 Aug 15 20:41	3° Υ 57'03	19°01'37
morning set	2373 Sep 17 16:44	16° Υ 28'35		asc. node	2374 Aug 21 05:05	10° Υ 23'14	
	2373 Sep 24 20:29	0° Υ			2374 Sep 01 05:57	0° Υ	
				morning set	2374 Sep 01 14:20	0° Υ 41'18	
superior conj	2373 Sep 26 23:23	3° Υ 54'25	1°27'57				
minimum elong	2373 Sep 27 03:02	4° Υ 11'01	1°27'37	superior conj	2374 Sep 09 22:51	17° Υ 06'22	1°41'21
max. Earth dist.	2373 Oct 04 12:58	17° Υ 17'08	1.40788 AU	minimum elong	2374 Sep 10 00:42	17° Υ 15'11	1°41'15
evening rise	2373 Oct 09 05:30	25° Υ 08'18		max. Earth dist.	2374 Sep 16 16:49	29° Υ 40'27	1.38734 AU
desc. node	2373 Oct 11 09:22	28° Υ 39'10			2374 Sep 16 21:11	0° Υ	
	2373 Oct 12 05:29	0° Υ		evening rise	2374 Sep 20 13:10	6° Υ 27'31	
	2373 Nov 01 13:49	0° Υ		desc. node	2374 Sep 28 06:22	19° Υ 16'07	
evening max el	2373 Nov 12 12:54	13° Υ 08'32	23°17'14		2374 Oct 05 05:36	0° Υ	
retrograde	2373 Nov 22 22:33	19° Υ 18'19		evening max el	2374 Oct 26 01:35	26° Υ 46'13	24°36'24
evening set	2373 Nov 27 20:49	17° Υ 16'16			2374 Oct 29 16:25	0° Υ	
asc. node	2373 Nov 30 07:14	14° Υ 45'51		retrograde	2374 Nov 06 12:50	3° Υ 27'43	
inferior conj	2373 Dec 03 06:00	10° Υ 52'51	0°59'48	evening set	2374 Nov 12 00:57	1° Υ 09'26	
minimum elong	2373 Dec 03 04:38	10° Υ 57'30	0°59'14		2374 Nov 13 06:22	30° Υ 00	
min. Earth dist.	2373 Dec 02 20:26	11° Υ 25'44	0.67830 AU	min. Earth dist.	2374 Nov 16 16:08	25° Υ 52'32	0.67515 AU
morning rise	2373 Dec 08 12:24	4° Υ 44'50		asc. node	2374 Nov 17 04:18	25° Υ 11'58	
direct	2373 Dec 12 18:19	3° Υ 04'36		inferior conj	2374 Nov 17 12:13	24° Υ 45'33	0°06'49
morning max el	2373 Dec 21 08:48	8° Υ 05'20	21°17'13	minimum elong	2374 Nov 17 12:03	24° Υ 46'07	0°06'45
desc. node	2374 Jan 07 08:37	0° Υ 20'27		transit middle	2374 Nov 17 12:03	24° Υ 46'07	0°06'45
	2374 Jan 07 03:02	0° Υ		transit begin	2374 Nov 17 09:33	24° Υ 54'27	
morning set	2374 Jan 21 08:46	21° Υ 39'11		transit end	2374 Nov 17 14:33	24° Υ 37'47	
	2374 Jan 26 14:09	0° Υ		morning rise	2374 Nov 22 23:14	18° Υ 43'19	
max. Earth dist.	2374 Jan 28 16:34	3° Υ 25'33	1.42262 AU	direct	2374 Nov 26 16:12	17° Υ 24'21	
				morning max el	2374 Dec 04 07:39	21° Υ 46'22	20°04'38
superior conj	2374 Feb 05 00:39	15° Υ 44'49	-2°05'30		2374 Dec 11 03:16	0° Υ	
minimum elong	2374 Feb 05 00:47	15° Υ 45'21	2°05'31	desc. node	2374 Dec 25 05:39	20° Υ 36'25	
	2374 Feb 13 02:52	0° Υ		morning set	2374 Dec 31 05:09	29° Υ 46'22	
evening rise	2374 Feb 16 07:26	5° Υ 45'52			2374 Dec 31 08:41	0° Υ	
asc. node	2374 Feb 26 06:32	23° Υ 11'26		max. Earth dist.	2375 Jan 11 01:38	16° Υ 48'40	1.43876 AU
	2374 Mar 03 01:58	0° Υ					
evening max el	2374 Mar 04 22:21	2° Υ 01'33	18°08'17	superior conj	2375 Jan 16 13:40	25° Υ 42'16	-1°57'23
retrograde	2374 Mar 11 15:22	5° Υ 26'38		minimum elong	2375 Jan 16 08:18	25° Υ 20'18	1°57'06
evening set	2374 Mar 14 06:57	4° Υ 54'58			2375 Jan 19 04:20	0° Υ	
inferior conj	2374 Mar 20 22:56	29° Υ 59'45	3°26'01	evening rise	2375 Jan 29 13:47	17° Υ 35'54	
minimum elong	2374 Mar 21 01:16	29° Υ 54'14	3°25'43		2375 Feb 05 19:22	0° Υ	
	2374 Mar 20 22:50	30° Υ 00		asc. node	2375 Feb 13 03:36	11° Υ 21'37	
min. Earth dist.	2374 Mar 24 04:23	26° Υ 57'19	0.60855 AU	evening max el	2375 Feb 16 10:55	15° Υ 15'48	18°11'26

retrograde	2375 Feb 22 21:44	18° H 40'40		retrograde	2376 Feb 06 12:38	2° H 16'45	
evening set	2375 Feb 25 18:43	17° H 58'15		evening set	2376 Feb 09 15:12	1° H 22'41	
inferior conj	2375 Mar 03 22:39	12° H 42'59	3°41'35		2376 Feb 11 12:38	30° R \approx	
minimum elong	2375 Mar 03 23:01	12° H 41'59	3°41'35	inferior conj	2376 Feb 15 10:33	25° \approx 48'48	3°37'46
min. Earth dist.	2375 Mar 06 15:14	9° H 50'16	0.62922 AU	minimum elong	2376 Feb 15 09:20	25° \approx 52'25	3°37'40
morning rise	2375 Mar 10 02:17	6° H 40'33		min. Earth dist.	2376 Feb 17 11:35	23° \approx 23'31	0.64694 AU
direct	2375 Mar 17 00:55	4° H 01'06		morning rise	2376 Feb 21 02:57	19° \approx 40'01	
desc. node	2375 Mar 23 04:48	5° H 48'13		direct	2376 Feb 27 21:52	16° \approx 49'07	
morning max el	2375 Mar 30 23:29	11° H 57'24	27°47'28	desc. node	2376 Mar 09 01:52	21° \approx 36'19	
	2375 Apr 14 07:01	0° Y		morning max el	2376 Mar 12 08:48	24° \approx 38'56	27°16'59
	2375 May 01 18:48	0° B			2376 Mar 17 05:22	0° H	
morning set	2375 May 04 03:21	4° B 40'17			2376 Apr 06 17:02	0° Y	
max. Earth dist.	2375 May 09 13:07	15° B 53'55	1.32754 AU	morning set	2376 Apr 16 18:46	18° Y 24'15	
				max. Earth dist.	2376 Apr 21 11:34	27° Y 49'05	1.33688 AU
					2376 Apr 22 12:56	0° B	
superior conj	2375 May 11 18:28	20° B 40'23	-0°03'43				
minimum elong	2375 May 11 18:39	20° B 41'21	0°03'41	superior conj	2376 Apr 24 22:41	5° B 02'22	-0°31'34
behind sun begin	2375 May 11 13:32	20° B 13'45		minimum elong	2376 Apr 25 00:17	5° B 10'48	0°31'15
behind sun end	2375 May 11 23:45	21° B 08'59		asc. node	2376 Apr 27 23:55	11° B 31'31	
asc. node	2375 May 12 02:53	21° B 25'54		evening rise	2376 May 02 05:25	20° B 30'18	
	2375 May 16 01:41	0° II			2376 May 06 21:27	0° II	
evening rise	2375 May 18 18:24	5° II 46'47		evening max el	2376 May 23 03:39	24° II 20'39	22°02'54
	2375 May 31 15:47	0° E			2376 May 31 20:51	0° E	
evening max el	2375 Jun 11 11:13	13° E 49'48	23°38'27	retrograde	2376 Jun 04 21:04	0° E 37'31	
desc. node	2375 Jun 19 04:00	19° E 19'49		desc. node	2376 Jun 05 01:02	0° E 37'27	
retrograde	2375 Jun 25 03:15	20° E 40'37		evening set	2376 Jun 07 15:08	0° E 20'40	
evening set	2375 Jun 29 05:02	20° E 04'11			2376 Jun 09 00:35	30° R II	
min. Earth dist.	2375 Jul 05 21:34	16° E 56'30	0.56011 AU	min. Earth dist.	2376 Jun 16 08:49	26° II 36'39	0.55041 AU
inferior conj	2375 Jul 08 01:35	15° E 38'27	-4°33'04	inferior conj	2376 Jun 17 00:05	26° II 15'16	-3°17'11
minimum elong	2375 Jul 07 19:32	15° E 47'35	4°32'05	minimum elong	2376 Jun 16 16:09	26° II 26'23	3°14'53
morning rise	2375 Jul 16 12:35	11° E 42'17		morning rise	2376 Jun 25 18:47	22° II 22'54	
direct	2375 Jul 19 06:55	11° E 23'09		direct	2376 Jun 28 20:31	22° II 01'54	
morning max el	2375 Jul 29 12:53	16° E 08'14	20°06'34	morning max el	2376 Jul 10 17:31	27° II 35'02	21°31'30
asc. node	2375 Aug 08 02:08	28° E 47'16			2376 Jul 13 02:39	0° E	
	2375 Aug 08 19:12	0° O		asc. node	2376 Jul 24 23:10	17° E 46'52	
morning set	2375 Aug 16 18:43	15° O 14'45		morning set	2376 Jul 31 03:26	0° O 01'30	
	2375 Aug 24 00:11	0° M			2376 Jul 31 03:09	0° O	
superior conj	2375 Aug 24 12:06	0° M 59'58	1°45'29				
minimum elong	2375 Aug 24 12:10	1° M 00'17	1°45'29	superior conj	2376 Aug 07 10:58	15° O 22'33	1°42'05
max. Earth dist.	2375 Aug 29 22:14	11° M 37'28	1.36758 AU	minimum elong	2376 Aug 07 09:41	15° O 15'51	1°42'01
evening rise	2375 Sep 02 19:06	18° M 49'57		max. Earth dist.	2376 Aug 11 10:16	23° O 30'48	1.35052 AU
	2375 Sep 09 04:07	0° A			2376 Aug 14 17:08	0° M	
desc. node	2375 Sep 15 03:22	9° A 41'35		evening rise	2376 Aug 15 18:50	2° M 03'24	
	2375 Sep 29 09:21	0° M		desc. node	2376 Sep 01 00:22	29° M 49'10	
evening max el	2375 Oct 08 13:44	10° M 27'09	25°48'03		2376 Sep 01 03:13	0° A	
retrograde	2375 Oct 20 22:20	17° M 30'16		evening max el	2376 Sep 20 02:02	24° A 04'24	26°44'37
evening set	2375 Oct 27 00:42	14° M 57'55			2376 Sep 28 00:04	0° M	
min. Earth dist.	2375 Oct 31 08:19	10° M 16'23	0.66869 AU	retrograde	2376 Oct 03 02:34	1° M 19'11	
inferior conj	2375 Nov 01 15:22	8° M 38'04	-0°49'49		2376 Oct 07 18:54	30° R A	
minimum elong	2375 Nov 01 16:40	8° M 33'57	0°49'14	evening set	2376 Oct 09 18:02	28° A 37'32	
asc. node	2375 Nov 04 01:21	5° M 42'08		min. Earth dist.	2376 Oct 13 18:31	24° A 32'33	0.65876 AU
morning rise	2375 Nov 07 08:55	2° M 44'23		inferior conj	2376 Oct 15 13:24	22° A 26'05	-1°48'32
direct	2375 Nov 10 14:51	1° M 43'41		minimum elong	2376 Oct 15 16:20	22° A 17'27	1°47'21
morning max el	2375 Nov 17 14:08	5° M 37'21	19°06'26	asc. node	2376 Oct 20 22:23	17° A 08'52	
	2375 Dec 04 23:32	0° X		morning rise	2376 Oct 21 15:15	16° A 44'01	
morning set	2375 Dec 10 09:45	8° X 26'42		direct	2376 Oct 24 12:19	15° A 57'59	
desc. node	2375 Dec 12 02:41	11° X 06'23		morning max el	2376 Oct 31 02:32	19° A 33'39	18°24'14
	2375 Dec 24 04:19	0° Z			2376 Nov 08 01:44	0° M	
max. Earth dist.	2375 Dec 24 17:19	0° Z 51'14	1.44884 AU	morning set	2376 Nov 19 16:36	18° M 28'21	
					2376 Nov 26 21:08	0° X	
superior conj	2375 Dec 27 02:15	4° Z 35'58	-1°30'09	desc. node	2376 Nov 27 23:41	1° X 45'35	
minimum elong	2375 Dec 26 17:20	4° Z 00'42	1°29'16				
evening rise	2376 Jan 10 22:23	28° Z 29'47		superior conj	2376 Dec 05 03:36	13° X 04'37	-0°46'54
	2376 Jan 11 20:23	0° \approx		minimum elong	2376 Dec 04 21:37	12° X 41'04	0°46'08
evening max el	2376 Jan 30 22:59	28° \approx 39'27	18°33'07	max. Earth dist.	2376 Dec 06 12:19	15° X 13'09	1.45168 AU
asc. node	2376 Jan 31 00:38	28° \approx 43'38			2376 Dec 15 22:31	0° Z	
	2376 Feb 01 09:34	0° H		evening rise	2376 Dec 21 07:36	8° Z 27'08	

greatest brilliancy	2376 Dec 31 14:57	24° ♁ 36'56	-0.8m		2377 Dec 08 22:55	0° ♁	
	2377 Jan 04 03:42	0° ♁		greatest brilliancy	2377 Dec 15 06:21	9° ♁ 27'05	-0.6m
evening max el	2377 Jan 13 08:07	12° ♁ 07'18	19°12'17	evening max el	2377 Dec 27 12:36	25° ♁ 36'51	20°07'06
asc. node	2377 Jan 16 21:39	15° ♁ 03'52			2378 Jan 02 23:38	0° ♁	
retrograde	2377 Jan 20 08:25	16° ♁ 07'43		asc. node	2378 Jan 03 18:41	0° ♁ 07'36	
evening set	2377 Jan 23 17:32	15° ♁ 01'05		retrograde	2378 Jan 04 06:14	0° ♁ 08'53	
inferior conj	2377 Jan 29 07:08	9° ♁ 10'53	3°19'36		2378 Jan 05 12:09	30° ♁	
minimum elong	2377 Jan 29 04:56	9° ♁ 17'56	3°19'12	evening set	2378 Jan 07 23:24	28° ♁ 48'26	
min. Earth dist.	2377 Jan 30 16:57	7° ♁ 22'42	0.66073 AU	inferior conj	2378 Jan 13 09:33	22° ♁ 44'42	2°50'28
morning rise	2377 Feb 03 16:03	2° ♁ 58'41		minimum elong	2378 Jan 13 06:58	22° ♁ 53'25	2°49'47
direct	2377 Feb 10 01:09	0° ♁ 10'04		min. Earth dist.	2378 Jan 14 05:36	21° ♁ 37'13	0.67051 AU
morning max el	2377 Feb 22 18:37	7° ♁ 42'03	26°17'55	morning rise	2378 Jan 18 14:19	16° ♁ 31'13	
desc. node	2377 Feb 23 22:54	8° ♁ 55'05		direct	2378 Jan 24 10:09	13° ♁ 55'22	
	2377 Mar 12 03:41	0° ♁		morning max el	2378 Feb 05 03:23	20° ♁ 55'10	24°59'15
	2377 Mar 30 02:56	0° ♁		desc. node	2378 Feb 10 19:56	27° ♁ 18'18	
morning set	2377 Mar 30 21:47	1° ♁ 27'44			2378 Feb 12 23:45	0° ♁	
max. Earth dist.	2377 Apr 03 22:52	9° ♁ 12'19	1.35073 AU		2378 Mar 05 08:49	0° ♁	
				morning set	2378 Mar 13 07:18	13° ♁ 35'29	
superior conj	2377 Apr 08 20:08	18° ♁ 59'37	-0°59'40	max. Earth dist.	2378 Mar 16 22:57	20° ♁ 13'34	1.36887 AU
minimum elong	2377 Apr 08 23:11	19° ♁ 15'11	0°59'07		2378 Mar 22 02:31	0° ♁	
	2377 Apr 14 03:41	0° ♁					
asc. node	2377 Apr 14 20:56	1° ♁ 29'46		superior conj	2378 Mar 23 07:48	2° ♁ 23'03	-1°26'12
evening rise	2377 Apr 16 13:37	5° ♁ 00'20		minimum elong	2378 Mar 23 11:57	2° ♁ 43'24	1°25'36
	2377 Apr 30 15:45	0° ♁		evening rise	2378 Mar 31 16:43	19° ♁ 09'05	
evening max el	2377 May 05 05:33	5° ♁ 17'53	20°37'57	asc. node	2378 Apr 01 17:59	21° ♁ 15'21	
retrograde	2377 May 16 10:18	10° ♁ 44'48			2378 Apr 06 06:24	0° ♁	
evening set	2377 May 18 12:12	10° ♁ 34'16		evening max el	2378 Apr 17 19:21	16° ♁ 54'03	19°30'29
desc. node	2377 May 22 22:04	9° ♁ 10'18		retrograde	2378 Apr 27 06:41	21° ♁ 28'55	
inferior conj	2377 May 27 18:02	6° ♁ 36'30	-1°24'36	evening set	2378 Apr 29 07:31	21° ♁ 17'10	
minimum elong	2377 May 27 14:02	6° ♁ 42'15	1°23'08	inferior conj	2378 May 07 21:47	17° ♁ 12'03	0°32'40
min. Earth dist.	2377 May 28 21:14	5° ♁ 57'22	0.54989 AU	minimum elong	2378 May 07 23:10	17° ♁ 09'49	0°32'10
morning rise	2377 Jun 05 15:10	2° ♁ 27'50		desc. node	2378 May 09 19:07	15° ♁ 59'10	
direct	2377 Jun 09 06:18	1° ♁ 59'26		min. Earth dist.	2378 May 10 11:42	15° ♁ 33'00	0.55885 AU
morning max el	2377 Jun 22 12:43	8° ♁ 23'38	23°10'26	morning rise	2378 May 16 12:03	12° ♁ 31'23	
	2377 Jul 08 01:09	0° ♁		direct	2378 May 21 01:20	11° ♁ 44'31	
asc. node	2377 Jul 11 20:11	7° ♁ 13'12		morning max el	2378 Jun 04 03:15	18° ♁ 50'57	24°52'03
morning set	2377 Jul 15 14:34	14° ♁ 55'57			2378 Jun 13 11:02	0° ♁	
				asc. node	2378 Jun 28 17:14	26° ♁ 58'16	
superior conj	2377 Jul 22 16:22	0° ♁ 04'49	1°32'33	morning set	2378 Jun 30 02:24	29° ♁ 51'52	
minimum elong	2377 Jul 22 14:15	29° ♁ 53'32	1°32'21		2378 Jun 30 03:56	0° ♁	
	2377 Jul 22 15:28	0° ♁					
max. Earth dist.	2377 Jul 25 07:18	5° ♁ 38'49	1.33728 AU	superior conj	2378 Jul 07 01:46	14° ♁ 57'52	1°17'58
evening rise	2377 Jul 30 07:57	15° ♁ 56'12		minimum elong	2378 Jul 06 23:23	14° ♁ 44'49	1°17'38
	2377 Aug 06 19:12	0° ♁		max. Earth dist.	2378 Jul 08 12:25	18° ♁ 06'11	1.32810 AU
desc. node	2377 Aug 18 21:23	19° ♁ 30'55		evening rise	2378 Jul 14 06:39	0° ♁ 16'39	
	2377 Aug 26 17:40	0° ♁			2378 Jul 14 03:24	0° ♁	
evening max el	2377 Sep 02 13:52	7° ♁ 28'12	27°18'49		2378 Jul 30 19:45	0° ♁	
retrograde	2377 Sep 16 01:12	14° ♁ 46'45		desc. node	2378 Aug 05 18:24	8° ♁ 35'24	
evening set	2377 Sep 23 02:26	12° ♁ 03'57		evening max el	2378 Aug 15 23:33	20° ♁ 26'12	27°24'24
min. Earth dist.	2377 Sep 26 20:37	8° ♁ 34'28	0.64525 AU	retrograde	2378 Aug 29 17:40	27° ♁ 43'11	
inferior conj	2377 Sep 29 04:04	6° ♁ 05'05	-2°47'12	evening set	2378 Sep 05 22:34	25° ♁ 10'57	
minimum elong	2377 Sep 29 08:32	5° ♁ 53'04	2°45'38	min. Earth dist.	2378 Sep 09 12:59	22° ♁ 11'43	0.62830 AU
morning rise	2377 Oct 05 15:39	0° ♁ 37'43		inferior conj	2378 Sep 12 08:36	19° ♁ 28'26	-3°42'29
asc. node	2377 Oct 07 19:25	0° ♁ 03'42		minimum elong	2378 Sep 12 14:01	19° ♁ 15'21	3°40'59
direct	2377 Oct 08 06:12	0° ♁ 02'39		morning rise	2378 Sep 19 06:53	14° ♁ 18'57	
morning max el	2377 Oct 14 18:17	3° ♁ 29'34	17°58'55	direct	2378 Sep 21 17:35	13° ♁ 51'23	
morning set	2377 Nov 01 04:13	29° ♁ 54'29		asc. node	2378 Sep 24 16:27	14° ♁ 32'35	
	2377 Nov 01 05:31	0° ♁		morning max el	2378 Sep 28 10:24	17° ♁ 17'48	17°51'22
					2378 Oct 07 11:44	0° ♁	
superior conj	2377 Nov 14 15:21	22° ♁ 09'09	0°01'31	morning set	2378 Oct 14 15:19	12° ♁ 28'19	
minimum elong	2377 Nov 14 15:31	22° ♁ 09'50	0°01'30		2378 Oct 24 16:52	0° ♁	
behind sun begin	2377 Nov 14 05:10	21° ♁ 28'10					
behind sun end	2377 Nov 15 01:52	22° ♁ 51'26		superior conj	2378 Oct 26 03:49	2° ♁ 27'33	0°44'01
desc. node	2377 Nov 14 20:42	22° ♁ 30'42		minimum elong	2378 Oct 26 07:45	2° ♁ 44'07	0°43'30
max. Earth dist.	2377 Nov 19 07:00	29° ♁ 34'29	1.44711 AU	desc. node	2378 Nov 01 17:44	13° ♁ 18'16	
	2377 Nov 19 13:27	0° ♁		max. Earth dist.	2378 Nov 01 22:38	13° ♁ 38'06	1.43577 AU
evening rise	2377 Nov 30 21:59	17° ♁ 42'07		evening rise	2378 Nov 10 06:46	26° ♁ 48'57	

	2378 Nov 12 08:18	0°♊		max. Earth dist.	2379 Oct 15 09:41	27°♊09'42	1.41913 AU
	2378 Dec 02 21:39	0°♋			2379 Oct 17 02:47	0°♌	
evening max el	2378 Dec 10 11:40	9°♋08'12	21°14'46	desc. node	2379 Oct 19 14:45	4°♌04'37	
retrograde	2378 Dec 19 03:52	14°♋17'11		evening rise	2379 Oct 21 02:40	6°♌29'00	
asc. node	2378 Dec 21 15:43	13°♋42'46			2379 Nov 05 14:14	0°♍	
evening set	2378 Dec 23 06:55	12°♋41'30		evening max el	2379 Nov 23 05:31	22°♍41'08	22°31'20
inferior conj	2378 Dec 28 15:30	6°♋27'26	2°12'46	retrograde	2379 Dec 02 23:33	28°♍28'48	
minimum elong	2378 Dec 28 13:03	6°♋35'55	2°11'57	evening set	2379 Dec 07 14:24	26°♍36'33	
min. Earth dist.	2378 Dec 28 23:18	6°♋00'31	0.67642 AU	asc. node	2379 Dec 08 12:46	25°♍46'03	
morning rise	2379 Jan 02 18:59	0°♋14'35		inferior conj	2379 Dec 12 22:59	20°♍15'39	1°28'06
	2379 Jan 03 01:45	30°♌♊		minimum elong	2379 Dec 12 21:06	20°♍22'08	1°27'23
direct	2379 Jan 08 00:04	27°♌58'21		min. Earth dist.	2379 Dec 12 19:35	20°♍27'25	0.67866 AU
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morning max el	2379 Jan 18 12:00	4°♋13'27	23°31'25	direct	2379 Dec 22 17:53	12°♍11'52	
desc. node	2379 Jan 28 16:58	16°♋27'48		morning max el	2379 Dec 31 23:50	17°♍38'08	22°04'06
	2379 Feb 07 06:23	0°♌			2380 Jan 11 03:48	0°♎	
morning set	2379 Feb 22 17:16	24°♌31'33		desc. node	2380 Jan 15 14:01	6°♎09'55	
	2379 Feb 25 21:48	0°♏			2380 Jan 31 09:26	0°♌	
max. Earth dist.	2379 Feb 26 17:38	1°♏26'41	1.38998 AU	morning set	2380 Feb 02 22:28	4°♌03'53	
				max. Earth dist.	2380 Feb 08 15:24	13°♌26'21	1.41143 AU
superior conj	2379 Mar 06 05:56	15°♏03'41	-1°48'27				
minimum elong	2379 Mar 06 10:11	15°♏23'33	1°48'04	superior conj	2380 Feb 16 09:41	26°♌49'19	-2°02'44
	2379 Mar 14 01:05	0°♐		minimum elong	2380 Feb 16 12:05	26°♌59'57	2°02'40
evening rise	2379 Mar 15 12:04	2°♐49'51			2380 Feb 18 04:26	0°♑	
asc. node	2379 Mar 19 15:02	10°♐43'25		evening rise	2380 Feb 26 20:16	15°♑54'28	
evening max el	2379 Mar 31 19:34	29°♐08'21	18°42'48	asc. node	2380 Mar 05 12:05	29°♑47'34	
	2379 Apr 01 18:09	0°♒			2380 Mar 05 15:00	0°♐	
retrograde	2379 Apr 08 19:51	3°♒02'58		evening max el	2380 Mar 14 03:06	11°♐52'37	18°15'11
evening set	2379 Apr 11 02:15	2°♒45'22		retrograde	2380 Mar 21 04:02	15°♐23'50	
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inferior conj	2379 Apr 18 20:50	28°♐22'49	2°05'56	inferior conj	2380 Mar 30 17:09	10°♐14'07	3°05'41
minimum elong	2379 Apr 19 00:42	28°♐15'35	2°04'48	minimum elong	2380 Mar 30 20:28	10°♐06'51	3°05'03
min. Earth dist.	2379 Apr 22 04:53	25°♐54'22	0.57542 AU	min. Earth dist.	2380 Apr 03 02:50	7°♐17'08	0.59615 AU
morning rise	2379 Apr 26 20:01	23°♐08'33		morning rise	2380 Apr 06 22:00	4°♐33'54	
desc. node	2379 Apr 26 16:09	23°♐12'58		desc. node	2380 Apr 12 13:11	2°♐41'48	
direct	2379 May 02 10:31	21°♐50'57		direct	2380 Apr 13 08:22	2°♐40'03	
morning max el	2379 May 16 19:01	29°♐24'04	26°21'06	morning max el	2380 Apr 27 16:20	10°♐27'58	27°23'13
	2379 May 17 09:36	0°♓			2380 May 12 19:12	0°♓	
	2379 Jun 07 03:26	0°♊		morning set	2380 May 28 21:41	29°♓26'45	
morning set	2379 Jun 14 13:19	14°♊43'58			2380 May 29 04:03	0°♋	
asc. node	2379 Jun 15 14:18	16°♊56'17		asc. node	2380 Jun 01 11:22	7°♋02'17	
				max. Earth dist.	2380 Jun 04 11:13	13°♋34'41	1.32153 AU
superior conj	2379 Jun 21 13:13	29°♋54'58	0°59'11				
minimum elong	2379 Jun 21 11:01	29°♋42'54	0°58'47	superior conj	2380 Jun 05 00:56	14°♋50'08	0°36'53
	2379 Jun 21 14:08	0°♌		minimum elong	2380 Jun 04 23:22	14°♋41'33	0°36'33
max. Earth dist.	2379 Jun 21 22:56	0°♌48'27	1.32288 AU	evening rise	2380 Jun 11 21:21	29°♋44'33	
evening rise	2379 Jun 28 11:55	14°♌55'25			2380 Jun 12 00:17	0°♌	
	2379 Jul 06 03:21	0°♍			2380 Jun 28 11:56	0°♍	
desc. node	2379 Jul 23 15:26	26°♍47'14		desc. node	2380 Jul 09 12:26	13°♍44'49	
	2379 Jul 26 11:04	0°♎		evening max el	2380 Jul 10 02:49	14°♍19'39	25°57'50
evening max el	2379 Jul 29 04:39	2°♎46'13	26°57'17	retrograde	2380 Jul 24 02:40	21°♍29'03	
retrograde	2379 Aug 12 02:42	9°♎59'20		evening set	2380 Jul 30 08:25	19°♍55'32	
evening set	2379 Aug 19 02:08	7°♎50'54		min. Earth dist.	2380 Aug 03 15:16	17°♍18'36	0.58808 AU
min. Earth dist.	2379 Aug 22 18:53	5°♎11'01	0.60873 AU	inferior conj	2380 Aug 06 21:50	14°♍53'53	-4°57'15
inferior conj	2379 Aug 25 23:43	2°♎27'53	-4°28'52	minimum elong	2380 Aug 07 00:01	14°♍49'50	4°57'07
minimum elong	2379 Aug 26 04:41	2°♎17'16	4°27'57	morning rise	2380 Aug 14 17:49	10°♍28'14	
	2379 Aug 29 01:03	30°♏♍		direct	2380 Aug 17 05:25	10°♍07'50	
morning rise	2379 Sep 02 09:02	27°♏39'14		morning max el	2380 Aug 25 07:17	13°♍59'26	18°34'01
direct	2379 Sep 04 18:46	27°♏16'18		asc. node	2380 Aug 28 10:35	17°♍30'08	
	2379 Sep 11 01:42	0°♎			2380 Sep 05 07:21	0°♎	
asc. node	2379 Sep 11 13:31	0°♎26'14		morning set	2380 Sep 10 12:02	9°♎49'38	
morning max el	2379 Sep 11 23:47	0°♎50'29	18°02'36				
morning set	2379 Sep 27 19:35	25°♎51'09		superior conj	2380 Sep 19 08:15	26°♎46'12	1°34'53
	2379 Sep 30 01:13	0°♏		minimum elong	2380 Sep 19 11:10	26°♎59'48	1°34'39
					2380 Sep 21 02:04	0°♏	
superior conj	2379 Oct 07 18:53	14°♏03'42	1°15'20	max. Earth dist.	2380 Sep 26 15:59	10°♏00'11	1.39928 AU
minimum elong	2379 Oct 07 23:14	14°♏22'55	1°14'51	evening rise	2380 Sep 30 20:32	17°♏10'14	

































































































































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	2380 Oct 08 18:58	0°♍		max. Earth dist.	2381 Sep 08 19:51	22°♎10'06	1.37869 AU
	2380 Oct 30 03:43	0°♊		evening rise	2381 Sep 12 14:05	28°♎57'14	
evening max el	2380 Nov 04 19:29	6°♊17'07	23°51'15		2381 Sep 13 04:20	0°♄	
retrograde	2380 Nov 15 16:03	12°♊40'44		desc. node	2381 Sep 22 08:48	15°♄19'27	
evening set	2380 Nov 20 20:14	10°♊31'30			2381 Oct 02 03:34	0°♍	
asc. node	2380 Nov 24 09:49	6°♊36'13		evening max el	2381 Oct 18 07:34	19°♍56'03	25°08'04
min. Earth dist.	2380 Nov 25 16:06	4°♊55'19	0.67748 AU	retrograde	2381 Oct 30 04:26	26°♍48'19	
inferior conj	2380 Nov 26 06:10	4°♊07'32	0°37'50	evening set	2381 Nov 04 22:45	24°♍23'19	
minimum elong	2380 Nov 26 05:17	4°♊10'34	0°37'28	min. Earth dist.	2381 Nov 09 10:31	19°♍21'30	0.67287 AU
	2380 Nov 29 12:09	30°♋♍		inferior conj	2381 Nov 10 11:18	18°♍00'30	-0°16'50
morning rise	2380 Dec 01 14:19	28°♍01'55		minimum elong	2381 Nov 10 11:43	17°♍59'06	0°16'39
direct	2380 Dec 05 14:34	26°♍31'02		asc. node	2381 Nov 11 06:51	16°♍57'01	
	2380 Dec 12 11:32	0°♊		morning rise	2381 Nov 16 00:54	12°♍01'47	
morning max el	2380 Dec 13 18:18	1°♊13'30	20°44'42	direct	2381 Nov 19 12:51	10°♍51'13	
desc. node	2381 Jan 01 11:03	26°♊15'37		morning max el	2381 Nov 26 20:38	14°♍59'50	19°37'57
	2381 Jan 03 22:55	0°♄			2381 Dec 08 08:27	0°♊	
morning set	2381 Jan 12 02:04	12°♄27'23		greatest brilliancy	2381 Dec 10 01:57	2°♊33'41	-0.7m
max. Earth dist.	2381 Jan 20 20:36	26°♄22'48	1.43020 AU	desc. node	2381 Dec 19 08:05	16°♊38'13	
	2381 Jan 23 01:54	0°♌		morning set	2381 Dec 21 22:50	20°♊40'14	
					2381 Dec 27 22:58	0°♄	
superior conj	2381 Jan 27 13:49	7°♌27'56	-2°04'16	max. Earth dist.	2382 Jan 03 08:48	10°♄05'03	1.44387 AU
minimum elong	2381 Jan 27 11:44	7°♌19'10	2°04'13				
evening rise	2381 Feb 08 13:20	28°♌14'32		superior conj	2382 Jan 07 15:39	16°♄55'36	-1°48'10
	2381 Feb 09 13:06	0°♋		minimum elong	2382 Jan 07 08:10	16°♄25'32	1°47'37
asc. node	2381 Feb 20 09:07	18°♋20'12			2382 Jan 15 15:50	0°♌	
evening max el	2381 Feb 25 14:37	24°♋58'01	18°07'15	evening rise	2382 Jan 21 10:53	9°♌41'43	
retrograde	2381 Mar 04 03:49	28°♋21'34			2382 Feb 02 18:27	0°♋	
evening set	2381 Mar 06 21:43	27°♋45'23		asc. node	2382 Feb 07 06:09	6°♋11'35	
inferior conj	2381 Mar 13 08:04	22°♋41'07	3°35'24	evening max el	2382 Feb 09 03:13	8°♋16'55	18°18'26
minimum elong	2381 Mar 13 09:33	22°♋37'23	3°35'17	retrograde	2382 Feb 15 14:24	11°♋46'05	
min. Earth dist.	2381 Mar 16 08:29	19°♋40'24	0.61759 AU	evening set	2382 Feb 18 13:35	10°♋58'57	
morning rise	2381 Mar 19 19:53	16°♋44'22		inferior conj	2382 Feb 24 13:28	5°♋35'30	3°42'01
direct	2381 Mar 26 16:40	14°♋18'29		minimum elong	2382 Feb 24 13:06	5°♋36'32	3°42'01
desc. node	2381 Mar 30 10:14	14°♋57'42		min. Earth dist.	2382 Feb 26 23:34	2°♋52'34	0.63713 AU
morning max el	2381 Apr 09 20:03	22°♋14'01	27°49'30		2382 Mar 01 21:13	30°♋♌	
	2381 Apr 16 16:10	0°♎		morning rise	2382 Mar 02 11:48	29°♌29'33	
	2381 May 05 21:52	0°♄		direct	2382 Mar 09 09:36	26°♌43'25	
morning set	2381 May 13 01:26	13°♄53'10		desc. node	2382 Mar 17 07:16	29°♌38'49	
max. Earth dist.	2381 May 18 21:14	26°♄10'46	1.32412 AU		2382 Mar 17 19:23	0°♋	
asc. node	2381 May 19 08:24	27°♄11'20		morning max el	2382 Mar 23 04:15	4°♋39'05	27°38'33
					2382 Apr 11 07:13	0°♎	
superior conj	2381 May 20 11:10	29°♄37'00	0°11'46	morning set	2382 Apr 26 22:13	27°♎55'47	
minimum elong	2381 May 20 10:37	29°♄34'01	0°11'38		2382 Apr 27 23:04	0°♄	
behind sun begin	2381 May 20 07:07	29°♄14'52		max. Earth dist.	2382 May 02 00:55	8°♄23'42	1.33091 AU
behind sun end	2381 May 20 14:08	29°♄53'12					
	2381 May 20 15:23	0°♈		superior conj	2382 May 04 18:10	14°♈10'08	-0°15'25
evening rise	2381 May 27 08:51	14°♈36'18		minimum elong	2382 May 04 18:56	14°♈14'13	0°15'15
	2381 Jun 04 01:45	0°♄		behind sun begin	2382 May 04 17:23	14°♈05'55	
evening max el	2381 Jun 21 18:09	25°♄08'42	24°33'12	behind sun end	2382 May 04 20:29	14°♈22'32	
desc. node	2381 Jun 26 09:29	28°♄57'30		asc. node	2382 May 06 05:26	17°♈19'38	
	2381 Jun 28 01:48	0°♏		evening rise	2382 May 11 20:34	29°♈24'37	
retrograde	2381 Jul 05 15:53	2°♏10'46			2382 May 12 03:17	0°♈	
evening set	2381 Jul 10 14:48	1°♏15'33			2382 May 29 08:17	0°♄	
	2381 Jul 13 10:25	30°♋♄		evening max el	2382 Jun 03 07:55	5°♄36'56	22°57'15
min. Earth dist.	2381 Jul 16 05:10	28°♄23'17	0.56898 AU	desc. node	2382 Jun 13 06:29	11°♄49'45	
inferior conj	2381 Jul 18 23:59	26°♄36'09	-4°54'28	retrograde	2382 Jun 16 16:46	12°♄16'36	
minimum elong	2381 Jul 18 20:58	26°♄41'01	4°54'14	evening set	2382 Jun 20 03:30	11°♄50'31	
morning rise	2381 Jul 27 05:51	22°♄31'51		min. Earth dist.	2382 Jun 27 16:52	8°♄28'48	0.55491 AU
direct	2381 Jul 29 21:13	22°♄12'42		inferior conj	2382 Jun 29 06:49	7°♄33'53	-4°06'46
morning max el	2381 Aug 08 05:49	26°♄34'10	19°26'44	minimum elong	2382 Jun 28 23:15	7°♄44'52	4°05'06
	2381 Aug 11 09:43	0°♏		morning rise	2382 Jul 07 21:26	3°♄41'30	
asc. node	2381 Aug 15 07:38	5°♏28'20		direct	2382 Jul 10 18:09	3°♄22'10	
morning set	2381 Aug 25 12:51	24°♏12'14		morning max el	2382 Jul 21 17:10	8°♄26'55	20°40'33
	2381 Aug 28 10:05	0°♎		asc. node	2382 Aug 02 04:40	24°♄08'26	
					2382 Aug 05 08:49	0°♏	
superior conj	2381 Sep 02 14:11	10°♎17'56	1°44'07	morning set	2382 Aug 09 19:17	8°♏51'33	

superior conj	2382 Aug 17 07:57	24°♎25'03	1°44'52	superior conj	2383 Aug 01 09:54	8°♎56'44	1°38'43
minimum elong	2382 Aug 17 07:22	24°♎22'08	1°44'51	minimum elong	2383 Aug 01 08:12	8°♎47'46	1°38'36
	2382 Aug 20 02:19	0°♎		max. Earth dist.	2383 Aug 04 18:41	15°♎57'29	1.34438 AU
max. Earth dist.	2382 Aug 22 03:03	4°♎00'20	1.35986 AU	evening rise	2383 Aug 09 10:05	25°♎14'21	
evening rise	2382 Aug 26 04:08	11°♎42'38			2383 Aug 11 21:53	0°♎	
	2382 Sep 05 16:33	0°♎		desc. node	2383 Aug 27 02:49	25°♎35'36	
desc. node	2382 Sep 09 05:48	5°♎37'58			2383 Aug 30 03:28	0°♎	
	2382 Sep 27 08:30	0°♎		evening max el	2383 Sep 13 08:02	17°♎09'31	27°02'27
evening max el	2382 Sep 30 19:36	3°♎35'48	26°14'23	retrograde	2383 Sep 26 14:00	24°♎26'45	
retrograde	2382 Oct 13 11:59	10°♎45'54		evening set	2383 Oct 03 09:59	21°♎43'46	
evening set	2382 Oct 19 20:04	8°♎08'45		min. Earth dist.	2383 Oct 07 07:43	17°♎53'52	0.65337 AU
min. Earth dist.	2382 Oct 24 00:31	3°♎42'36	0.66486 AU	inferior conj	2383 Oct 09 07:47	15°♎37'01	-2°13'34
inferior conj	2382 Oct 25 12:32	1°♎51'37	-1°14'33	minimum elong	2383 Oct 09 11:23	15°♎26'45	2°12'11
minimum elong	2382 Oct 25 14:31	1°♎45'30	1°13'44	morning rise	2383 Oct 15 13:35	10°♎00'30	
	2382 Oct 27 01:29	30°♎		asc. node	2383 Oct 16 00:54	9°♎47'45	
asc. node	2382 Oct 29 03:53	27°♎45'33		direct	2383 Oct 18 07:33	9°♎19'33	
morning rise	2382 Oct 31 09:25	26°♎02'27		morning max el	2383 Oct 24 20:04	12°♎50'43	18°11'21
direct	2382 Nov 03 11:11	25°♎08'37			2383 Nov 05 22:45	0°♎	
morning max el	2382 Nov 10 05:56	28°♎53'51	18°46'24	morning set	2383 Nov 12 08:58	10°♎31'52	
	2382 Nov 11 07:01	0°♎		desc. node	2383 Nov 23 02:07	27°♎54'52	
morning set	2382 Dec 01 13:21	29°♎51'57			2383 Nov 24 09:29	0°♎	
	2382 Dec 01 15:23	0°♎		superior conj	2383 Nov 27 00:32	4°♎10'18	-0°26'17
desc. node	2382 Dec 06 05:05	7°♎12'31		minimum elong	2383 Nov 26 21:10	3°♎56'58	0°25'50
max. Earth dist.	2382 Dec 17 01:45	24°♎16'13	1.45093 AU	max. Earth dist.	2383 Nov 29 20:59	8°♎40'23	1.45065 AU
				evening rise	2383 Dec 13 09:43	29°♎47'56	
superior conj	2382 Dec 17 21:09	25°♎32'29	-1°13'15		2383 Dec 13 12:49	0°♎	
minimum elong	2382 Dec 17 12:41	24°♎59'10	1°12'17	greatest brilliancy	2383 Dec 25 18:11	18°♎51'02	-0.7m
	2382 Dec 20 17:10	0°♎			2384 Jan 02 12:34	0°♎	
evening rise	2383 Jan 02 09:28	20°♎10'48		evening max el	2384 Jan 06 21:47	5°♎12'40	19°33'48
	2383 Jan 08 11:48	0°♎		asc. node	2384 Jan 12 00:12	8°♎59'09	
greatest brilliancy	2383 Jan 08 11:13	29°♎57'42	-0.9m	retrograde	2384 Jan 14 04:34	9°♎25'10	
evening max el	2383 Jan 23 14:18	21°♎42'56	18°47'46	evening set	2384 Jan 17 16:58	8°♎12'48	
asc. node	2383 Jan 25 03:11	23°♎09'11		inferior conj	2384 Jan 23 04:52	2°♎16'44	3°08'23
retrograde	2383 Jan 30 07:43	25°♎28'58		minimum elong	2384 Jan 23 02:26	2°♎24'43	3°07'52
evening set	2383 Feb 02 12:51	24°♎29'51		min. Earth dist.	2384 Jan 24 08:41	0°♎45'38	0.66550 AU
inferior conj	2383 Feb 08 05:27	18°♎49'00	3°31'34		2384 Jan 24 22:52	30°♎	
minimum elong	2383 Feb 08 03:45	18°♎54'15	3°31'21	morning rise	2384 Jan 28 11:40	26°♎03'57	
min. Earth dist.	2383 Feb 10 00:01	16°♎38'22	0.65331 AU	direct	2384 Feb 03 15:35	23°♎19'30	
morning rise	2383 Feb 13 18:14	12°♎38'22			2384 Feb 15 07:33	0°♎	
direct	2383 Feb 20 09:39	9°♎46'32		morning max el	2384 Feb 15 23:10	0°♎38'51	25°46'05
desc. node	2383 Mar 04 04:17	16°♎09'01		desc. node	2384 Feb 19 01:21	3°♎57'53	
morning max el	2383 Mar 05 13:58	17°♎31'03	26°54'45		2384 Mar 09 00:21	0°♎	
	2383 Mar 16 00:53	0°♎		morning set	2384 Mar 23 05:05	24°♎05'10	
morning set	2383 Apr 04 04:39	0°♎			2384 Mar 26 09:07	0°♎	
max. Earth dist.	2383 Apr 10 08:51	11°♎23'56		max. Earth dist.	2384 Mar 27 00:31	1°♎13'21	1.35806 AU
	2383 Apr 14 18:29	20°♎03'12	1.34218 AU				
superior conj	2383 Apr 18 19:48	28°♎22'22	-0°43'35	superior conj	2384 Apr 01 13:31	12°♎06'20	-1°11'16
minimum elong	2383 Apr 18 22:01	28°♎33'57	0°43'08	minimum elong	2384 Apr 01 17:06	12°♎24'21	1°10'40
	2383 Apr 19 14:29	0°♎		asc. node	2384 Apr 08 23:30	27°♎15'48	
asc. node	2383 Apr 23 02:28	7°♎22'31		evening rise	2384 Apr 09 12:55	28°♎24'15	
evening rise	2383 Apr 26 06:36	14°♎02'41			2384 Apr 10 07:45	0°♎	
	2383 May 04 10:38	0°♎		evening max el	2384 Apr 27 10:51	27°♎29'21	20°06'50
evening max el	2383 May 16 03:50	16°♎16'20	21°24'59		2384 Apr 30 11:16	0°♎	
retrograde	2383 May 28 07:09	22°♎12'51		retrograde	2384 May 07 21:23	2°♎32'48	
evening set	2383 May 30 15:57	22°♎00'04		evening set	2384 May 09 21:44	2°♎22'20	
desc. node	2383 May 31 03:30	21°♎54'28			2384 May 16 02:57	30°♎	
inferior conj	2383 Jun 09 01:36	18°♎00'16	-2°32'19	desc. node	2384 May 17 00:32	29°♎29'55	
minimum elong	2383 Jun 08 18:47	18°♎09'50	2°30'03	inferior conj	2384 May 18 22:00	28°♎23'14	-0°33'16
min. Earth dist.	2383 Jun 09 04:46	17°♎55'50	0.54898 AU	minimum elong	2384 May 18 20:27	28°♎25'32	0°32'42
morning rise	2383 Jun 17 22:11	14°♎03'00		min. Earth dist.	2384 May 20 17:45	27°♎18'04	0.55267 AU
direct	2383 Jun 21 04:38	13°♎39'44		morning rise	2384 May 27 17:27	24°♎02'28	
morning max el	2383 Jul 03 17:17	19°♎35'39	22°12'24	direct	2384 May 31 17:29	23°♎27'36	
	2383 Jul 12 06:50	0°♎			2384 Jun 14 04:51	0°♎	
asc. node	2383 Jul 20 01:42	13°♎20'11		morning max el	2384 Jun 14 09:31	0°♎10'57	23°54'14
morning set	2383 Jul 25 05:14	23°♎41'47			2384 Jul 04 11:43	0°♎	
	2383 Jul 28 04:52	0°♎		asc. node	2384 Jul 05 22:45	2°♎55'08	

morning set	2384 Jul 08 16:50	8° $\overline{53}$ 7'10		2385 Jun 26 04:45	0° $\overline{56}$	
superior conj	2384 Jul 15 17:14	23° $\overline{54}$ 3'53	1°26'56	superior conj	2385 Jun 30 03:46	8° $\overline{56}$ 39'45 1°10'29
minimum elong	2384 Jul 15 14:56	23° $\overline{53}$ 31'30	1°26'39	minimum elong	2385 Jun 30 01:24	8° $\overline{56}$ 26'47 1°10'06
max. Earth dist.	2384 Jul 17 19:38	28° $\overline{56}$ 14'36	1.33288 AU	max. Earth dist.	2385 Jul 01 03:43	10° $\overline{56}$ 50'45 1.32540 AU
	2384 Jul 18 15:28	0° $\overline{59}$		evening rise	2385 Jul 07 05:32	23° $\overline{56}$ 49'24
evening rise	2384 Jul 23 03:40	9° $\overline{59}$ 19'52			2385 Jul 10 06:45	0° $\overline{59}$
	2384 Aug 03 07:13	0° $\overline{59}$			2385 Jul 28 01:10	0° $\overline{59}$
desc. node	2384 Aug 12 23:51	15° $\overline{59}$ 02'53		desc. node	2385 Jul 30 20:52	3° $\overline{59}$ 47'18
	2384 Aug 25 09:17	0° $\overline{59}$		evening max el	2385 Aug 08 03:26	13° $\overline{59}$ 07'18 27°16'55
evening max el	2384 Aug 25 19:28	0° $\overline{59}$ 24'26	27°25'09	retrograde	2385 Aug 21 23:04	20° $\overline{59}$ 22'29
retrograde	2384 Sep 08 09:51	7° $\overline{59}$ 41'52		evening set	2385 Aug 29 03:15	17° $\overline{59}$ 58'28
evening set	2384 Sep 15 13:36	5° $\overline{59}$ 02'16		min. Earth dist.	2385 Sep 01 17:32	15° $\overline{59}$ 09'31 0.62028 AU
min. Earth dist.	2384 Sep 19 05:51	1° $\overline{59}$ 46'31	0.63841 AU	inferior conj	2385 Sep 04 17:46	12° $\overline{59}$ 24'13 -4°03'42
	2384 Sep 20 23:21	30° $\overline{58}$		minimum elong	2385 Sep 04 23:13	12° $\overline{59}$ 11'42 4°02'22
inferior conj	2384 Sep 21 18:32	29° $\overline{58}$ 10'12	-3°11'21	morning rise	2385 Sep 11 20:46	7° $\overline{58}$ 23'28
minimum elong	2384 Sep 21 23:30	28° $\overline{58}$ 57'22	3°09'44	direct	2385 Sep 14 06:48	6° $\overline{58}$ 58'07
morning rise	2384 Sep 28 10:33	23° $\overline{58}$ 49'50		asc. node	2385 Sep 18 19:01	8° $\overline{58}$ 29'09
direct	2384 Sep 30 23:14	23° $\overline{58}$ 18'11		morning max el	2385 Sep 21 03:40	10° $\overline{58}$ 26'20 17°53'49
asc. node	2384 Oct 01 21:58	23° $\overline{58}$ 22'42			2385 Oct 04 02:13	0° $\overline{58}$
morning max el	2384 Oct 07 12:18	26° $\overline{58}$ 43'44	17°53'31	morning set	2385 Oct 07 02:26	5° $\overline{58}$ 25'28
	2384 Oct 10 08:26	0° $\overline{58}$				
morning set	2384 Oct 24 07:24	22° $\overline{58}$ 29'19		superior conj	2385 Oct 17 21:49	24° $\overline{58}$ 35'18 0°58'47
	2384 Oct 28 16:34	0° $\overline{58}$		minimum elong	2385 Oct 18 02:16	24° $\overline{58}$ 54'22 0°58'13
					2385 Oct 21 02:16	0° $\overline{58}$
superior conj	2384 Nov 05 21:45	13° $\overline{58}$ 43'07	0°20'43	max. Earth dist.	2385 Oct 25 05:18	6° $\overline{58}$ 50'17 1.42923 AU
minimum elong	2384 Nov 05 23:59	13° $\overline{58}$ 52'15	0°20'24	desc. node	2385 Oct 26 20:10	9° $\overline{58}$ 28'21
desc. node	2384 Nov 08 23:08	18° $\overline{58}$ 41'10		evening rise	2385 Nov 01 07:17	18° $\overline{58}$ 10'02
max. Earth dist.	2384 Nov 11 15:17	22° $\overline{58}$ 58'17	1.44309 AU		2385 Nov 09 00:16	0° $\overline{58}$
	2384 Nov 16 02:01	0° $\overline{58}$			2385 Nov 30 18:50	0° $\overline{58}$
evening rise	2384 Nov 21 19:45	8° $\overline{58}$ 54'37		evening max el	2385 Dec 02 20:43	2° $\overline{58}$ 14'15 21°46'29
	2384 Dec 05 19:31	0° $\overline{58}$		retrograde	2385 Dec 11 23:38	7° $\overline{58}$ 40'04
evening max el	2384 Dec 20 00:06	18° $\overline{58}$ 43'16	20°34'27	asc. node	2385 Dec 15 18:18	6° $\overline{58}$ 22'06
retrograde	2384 Dec 28 02:34	23° $\overline{58}$ 30'05		evening set	2385 Dec 16 07:32	5° $\overline{58}$ 57'15
asc. node	2384 Dec 28 21:14	23° $\overline{58}$ 26'42			2385 Dec 21 10:01	30° $\overline{58}$
evening set	2384 Dec 31 23:48	22° $\overline{58}$ 03'06		inferior conj	2385 Dec 21 15:55	29° $\overline{58}$ 39'34 1°54'35
inferior conj	2385 Jan 06 09:05	15° $\overline{58}$ 54'32	2°35'24	minimum elong	2385 Dec 21 13:39	29° $\overline{58}$ 47'24 1°53'47
minimum elong	2385 Jan 06 06:29	16° $\overline{58}$ 03'22	2°34'38	min. Earth dist.	2385 Dec 21 18:45	29° $\overline{58}$ 29'42 0.67777 AU
min. Earth dist.	2385 Jan 06 23:40	15° $\overline{58}$ 04'45	0.67355 AU	morning rise	2385 Dec 26 19:37	23° $\overline{58}$ 27'35
morning rise	2385 Jan 11 13:00	9° $\overline{58}$ 41'21		direct	2385 Dec 31 18:11	21° $\overline{58}$ 21'07
direct	2385 Jan 17 02:40	7° $\overline{58}$ 13'27		morning max el	2386 Jan 10 17:24	27° $\overline{58}$ 15'37 22°53'47
morning max el	2385 Jan 28 07:41	13° $\overline{58}$ 54'36	24°22'26		2386 Jan 13 06:46	0° $\overline{58}$
desc. node	2385 Feb 04 22:23	22° $\overline{58}$ 42'34		desc. node	2386 Jan 22 19:25	12° $\overline{58}$ 06'55
	2385 Feb 10 09:36	0° $\overline{58}$			2386 Feb 04 01:10	0° $\overline{58}$
	2385 Mar 01 21:07	0° $\overline{58}$		morning set	2386 Feb 14 03:37	16° $\overline{58}$ 06'04
morning set	2385 Mar 05 05:25	5° $\overline{58}$ 44'40		max. Earth dist.	2386 Feb 18 17:13	23° $\overline{58}$ 48'10 1.39920 AU
max. Earth dist.	2385 Mar 08 21:53	12° $\overline{58}$ 17'29	1.37769 AU		2386 Feb 22 06:32	0° $\overline{58}$
superior conj	2385 Mar 15 20:02	25° $\overline{58}$ 13'22	-1°36'20	superior conj	2386 Feb 26 10:59	7° $\overline{58}$ 31'53 -1°55'44
minimum elong	2385 Mar 16 00:23	25° $\overline{58}$ 34'21	1°35'48	minimum elong	2386 Feb 26 14:45	7° $\overline{58}$ 49'07 1°55'30
	2385 Mar 18 07:03	0° $\overline{58}$		evening rise	2386 Mar 08 04:16	25° $\overline{58}$ 49'29
evening rise	2385 Mar 24 13:09	12° $\overline{58}$ 22'45			2386 Mar 10 09:01	0° $\overline{58}$
asc. node	2385 Mar 26 20:34	16° $\overline{58}$ 54'58		asc. node	2386 Mar 13 17:37	6° $\overline{58}$ 13'47
	2385 Apr 03 01:57	0° $\overline{58}$		evening max el	2386 Mar 24 09:06	21° $\overline{58}$ 50'34 18°28'33
evening max el	2385 Apr 10 05:24	9° $\overline{58}$ 22'37	19°07'38	retrograde	2386 Mar 31 22:14	25° $\overline{58}$ 33'35
retrograde	2385 Apr 19 00:33	13° $\overline{58}$ 38'45		evening set	2386 Apr 03 07:06	25° $\overline{58}$ 12'44
evening set	2385 Apr 21 03:27	13° $\overline{58}$ 24'54		inferior conj	2386 Apr 10 17:39	20° $\overline{58}$ 41'25 2°35'18
inferior conj	2385 Apr 29 09:22	9° $\overline{58}$ 12'42	1°16'10	minimum elong	2386 Apr 10 21:34	20° $\overline{58}$ 33'34 2°34'19
minimum elong	2385 Apr 29 12:15	9° $\overline{58}$ 07'46	1°15'12	min. Earth dist.	2386 Apr 14 04:06	17° $\overline{58}$ 57'41 0.58389 AU
min. Earth dist.	2385 May 02 08:58	7° $\overline{58}$ 11'00	0.56516 AU	morning rise	2386 Apr 18 09:04	15° $\overline{58}$ 14'28
desc. node	2385 May 03 21:35	6° $\overline{58}$ 13'09		desc. node	2386 Apr 20 18:38	14° $\overline{58}$ 15'15
morning rise	2385 May 07 18:00	4° $\overline{58}$ 17'25		direct	2386 Apr 24 08:47	13° $\overline{58}$ 41'40
direct	2385 May 12 18:00	3° $\overline{58}$ 19'04		morning max el	2386 May 08 18:07	21° $\overline{58}$ 22'54 26°51'31
morning max el	2385 May 27 00:03	10° $\overline{58}$ 37'59	25°32'31		2386 May 16 06:22	0° $\overline{58}$
	2385 Jun 10 17:49	0° $\overline{58}$			2386 Jun 03 12:05	0° $\overline{58}$
asc. node	2385 Jun 22 19:49	22° $\overline{58}$ 46'49		morning set	2386 Jun 07 14:36	8° $\overline{58}$ 21'44
morning set	2385 Jun 23 04:33	23° $\overline{58}$ 32'47		asc. node	2386 Jun 09 16:53	12° $\overline{58}$ 48'44

superior conj	2386 Jun 14 15:32	23° Π 36'43	0°50'07	asc. node	2387 May 27 13:56	2° Π 56'22	
minimum elong	2386 Jun 14 13:34	23° Π 25'50	0°49'44	max. Earth dist.	2387 May 29 02:56	6° Π 17'58	1.32215 AU
max. Earth dist.	2386 Jun 14 15:21	23° Π 35'40	1.32181 AU				
	2386 Jun 17 13:19	0° \mathfrak{C}		superior conj	2387 May 30 02:51	8° Π 29'02	0°26'32
evening rise	2386 Jun 21 12:50	8° \mathfrak{C} 33'06		minimum elong	2387 May 30 01:41	8° Π 22'36	0°26'17
	2386 Jul 02 16:40	0° Ω		evening rise	2387 Jun 05 23:21	23° Π 23'51	
desc. node	2386 Jul 17 17:54	21° Ω 30'25			2387 Jun 09 03:41	0° \mathfrak{C}	
evening max el	2386 Jul 21 05:28	25° Ω 06'42	26°35'35		2387 Jun 27 07:08	0° Ω	
	2386 Jul 27 13:09	0° \mathfrak{M}		evening max el	2387 Jul 03 00:28	6° Ω 19'39	25°24'11
retrograde	2386 Aug 04 04:45	2° \mathfrak{M} 19'10		desc. node	2387 Jul 04 14:56	7° Ω 47'16	
evening set	2386 Aug 10 22:18	0° \mathfrak{M} 24'14		retrograde	2387 Jul 17 00:39	13° Ω 27'06	
	2386 Aug 11 15:01	30° \mathfrak{R} Ω		evening set	2387 Jul 22 18:21	12° Ω 10'27	
min. Earth dist.	2386 Aug 14 19:01	27° Ω 47'58	0.59993 AU	min. Earth dist.	2387 Jul 27 12:28	9° Ω 28'41	0.57955 AU
inferior conj	2386 Aug 18 02:00	25° Ω 09'53	-4°43'49	inferior conj	2387 Jul 30 15:50	7° Ω 17'51	-5°00'47
minimum elong	2386 Aug 18 06:08	25° Ω 01'35	4°43'15	minimum elong	2387 Jul 30 16:01	7° Ω 17'33	5°00'48
morning rise	2386 Aug 25 16:00	20° Ω 31'17		morning rise	2387 Aug 07 16:07	3° Ω 01'37	
direct	2386 Aug 28 02:07	20° Ω 09'45		direct	2387 Aug 10 04:55	2° Ω 41'59	
morning max el	2386 Sep 04 14:59	23° Ω 50'02	18°13'27	morning max el	2387 Aug 18 19:00	6° Ω 45'11	18°53'45
asc. node	2386 Sep 05 16:05	24° Ω 54'11		asc. node	2387 Aug 23 13:08	12° Ω 22'31	
	2386 Sep 09 15:13	0° \mathfrak{M}			2387 Sep 02 17:07	0° \mathfrak{M}	
morning set	2386 Sep 20 12:22	19° \mathfrak{M} 04'13		morning set	2387 Sep 04 08:44	3° \mathfrak{M} 13'27	
	2386 Sep 26 07:41	0° \mathfrak{L}					
superior conj	2386 Sep 29 23:03	6° \mathfrak{L} 41'23	1°25'00	superior conj	2387 Sep 12 20:02	19° \mathfrak{M} 45'56	1°39'56
minimum elong	2386 Sep 30 02:55	6° \mathfrak{L} 58'51	1°24'37	minimum elong	2387 Sep 12 22:10	19° \mathfrak{M} 56'04	1°39'49
max. Earth dist.	2386 Oct 07 13:37	20° \mathfrak{L} 02'33	1.41087 AU	max. Earth dist.	2387 Sep 18 08:02	0° \mathfrak{L}	
evening rise	2386 Oct 12 11:41	28° \mathfrak{L} 13'27		evening rise	2387 Sep 19 17:59	2° \mathfrak{L} 32'38	1.39044 AU
desc. node	2386 Oct 13 17:12	0° \mathfrak{M} 13'06		desc. node	2387 Sep 23 15:47	9° \mathfrak{L} 22'51	
	2386 Oct 13 13:57	0° \mathfrak{M}			2387 Sep 30 14:12	20° \mathfrak{L} 51'28	
	2386 Nov 02 15:19	0° \mathfrak{J}			2387 Oct 06 11:28	0° \mathfrak{M}	
evening max el	2386 Nov 15 12:32	15° \mathfrak{J} 47'39	23°05'20	evening max el	2387 Oct 29 01:30	29° \mathfrak{M} 24'52	24°24'54
retrograde	2386 Nov 25 18:15	21° \mathfrak{J} 52'00			2387 Oct 29 15:54	0° \mathfrak{J}	
evening set	2386 Nov 30 14:30	19° \mathfrak{J} 52'35		retrograde	2387 Nov 09 09:02	6° \mathfrak{J} 01'51	
asc. node	2386 Dec 02 15:20	17° \mathfrak{J} 50'33		evening set	2387 Nov 14 19:04	3° \mathfrak{J} 45'57	
inferior conj	2386 Dec 05 23:28	13° \mathfrak{J} 29'40	1°07'25		2387 Nov 18 06:10	30° \mathfrak{R} \mathfrak{M}	
minimum elong	2386 Dec 05 21:58	13° \mathfrak{J} 34'50	1°06'49	min. Earth dist.	2387 Nov 19 11:29	28° \mathfrak{M} 23'59	0.67587 AU
min. Earth dist.	2386 Dec 05 15:31	13° \mathfrak{J} 57'05	0.67847 AU	asc. node	2387 Nov 19 12:21	28° \mathfrak{M} 21'03	
morning rise	2386 Dec 11 05:21	7° \mathfrak{J} 20'53		inferior conj	2387 Nov 20 05:58	27° \mathfrak{M} 22'00	0°15'07
direct	2386 Dec 15 13:23	5° \mathfrak{J} 37'11		minimum elong	2387 Nov 20 05:36	27° \mathfrak{M} 23'15	0°14'58
morning max el	2386 Dec 24 07:44	10° \mathfrak{J} 44'29	21°29'02	transit middle	2387 Nov 20 05:36	27° \mathfrak{M} 23'15	0°14'58
	2387 Jan 08 07:19	0° \mathfrak{Z}		transit begin	2387 Nov 20 04:32	27° \mathfrak{M} 26'49	
desc. node	2387 Jan 09 16:27	1° \mathfrak{Z} 59'54		transit end	2387 Nov 20 06:40	27° \mathfrak{M} 19'40	
morning set	2387 Jan 24 20:47	25° \mathfrak{Z} 05'14		morning rise	2387 Nov 25 16:10	21° \mathfrak{M} 18'46	
	2387 Jan 27 22:34	0° \approx		direct	2387 Nov 29 11:00	19° \mathfrak{M} 56'43	
max. Earth dist.	2387 Jan 31 17:24	6° \approx 10'09	1.41981 AU	morning max el	2387 Dec 07 05:21	24° \mathfrak{M} 23'35	20°14'32
					2387 Dec 12 01:38	0° \mathfrak{J}	
superior conj	2387 Feb 08 05:18	18° \approx 50'22	-2°05'16	desc. node	2387 Dec 27 13:27	22° \mathfrak{J} 13'03	
minimum elong	2387 Feb 08 06:07	18° \approx 53'53	2°05'16		2388 Jan 01 15:55	0° \mathfrak{Z}	
	2387 Feb 14 12:51	0° \mathfrak{H}		morning set	2388 Jan 03 18:09	3° \mathfrak{Z} 13'39	
evening rise	2387 Feb 19 06:35	8° \mathfrak{H} 36'15		max. Earth dist.	2388 Jan 14 01:28	19° \mathfrak{Z} 26'26	1.43675 AU
asc. node	2387 Feb 28 14:40	25° \mathfrak{H} 05'44					
	2387 Mar 03 20:03	0° \mathfrak{Y}		superior conj	2388 Jan 19 22:12	28° \mathfrak{Z} 58'03	-1°59'49
evening max el	2387 Mar 07 18:46	4° \mathfrak{Y} 45'15	18°09'27	minimum elong	2388 Jan 19 17:41	28° \mathfrak{Z} 39'26	1°59'36
retrograde	2387 Mar 14 13:27	8° \mathfrak{Y} 11'17			2388 Jan 20 13:14	0° \approx	
evening set	2387 Mar 17 04:16	7° \mathfrak{Y} 41'04		evening rise	2388 Feb 01 15:45	20° \approx 33'42	
inferior conj	2387 Mar 23 22:22	2° \mathfrak{Y} 48'59	3°21'30		2388 Feb 07 02:29	0° \mathfrak{H}	
minimum elong	2387 Mar 24 00:59	2° \mathfrak{Y} 42'54	3°21'07	asc. node	2388 Feb 15 11:41	13° \mathfrak{H} 21'48	
	2387 Mar 26 23:26	30° \mathfrak{R} \mathfrak{H}		evening max el	2388 Feb 19 07:08	17° \mathfrak{H} 57'10	18°09'47
min. Earth dist.	2387 Mar 27 05:16	29° \mathfrak{H} 47'06	0.60537 AU	retrograde	2388 Feb 25 18:12	21° \mathfrak{H} 21'11	
morning rise	2387 Mar 30 19:38	27° \mathfrak{H} 00'34		evening set	2388 Feb 28 14:26	20° \mathfrak{H} 40'20	
direct	2387 Apr 06 11:46	24° \mathfrak{H} 51'38		inferior conj	2388 Mar 05 19:54	15° \mathfrak{H} 27'49	3°40'37
desc. node	2387 Apr 07 15:39	24° \mathfrak{H} 55'23		minimum elong	2388 Mar 05 20:33	15° \mathfrak{H} 26'05	3°40'35
	2387 Apr 17 18:19	0° \mathfrak{Y}		min. Earth dist.	2388 Mar 08 14:37	12° \mathfrak{H} 32'30	0.62629 AU
morning max el	2387 Apr 20 18:13	2° \mathfrak{Y} 44'15	27°38'51	morning rise	2388 Mar 12 01:33	9° \mathfrak{H} 26'47	
	2387 May 10 16:50	0° \mathfrak{B}		direct	2388 Mar 19 00:02	6° \mathfrak{H} 50'27	
morning set	2387 May 22 21:14	22° \mathfrak{B} 58'09		desc. node	2388 Mar 24 12:40	8° \mathfrak{H} 16'38	
	2387 May 26 05:15	0° \mathfrak{I}		morning max el	2388 Apr 01 23:52	14° \mathfrak{H} 46'30	27°49'11
					2388 Apr 14 08:39	0° \mathfrak{Y}	

	2388 May 02 06:06	0°♄			2389 Mar 17 20:11	0°♄		
morning set	2388 May 05 22:21	7°♄15'12			2389 Apr 08 00:59	0°♄		
max. Earth dist.	2388 May 11 10:40	18°♄45'17	1.32650 AU	morning set	2389 Apr 19 15:15	21°♄04'03		
					2389 Apr 24 01:51	0°♄		
superior conj	2388 May 13 11:57	23°♄10'55	0°00'26	max. Earth dist.	2389 Apr 24 10:41	0°♄45'35	1.33516 AU	
minimum elong	2388 May 13 11:56	23°♄10'48	0°00'26					
behind sun begin	2388 May 13 06:45	22°♄42'41		superior conj	2389 Apr 27 16:56	7°♄35'39	-0°27'19	
behind sun end	2388 May 13 17:08	23°♄38'56		minimum elong	2389 Apr 27 18:19	7°♄42'57	0°27'01	
asc. node	2388 May 13 10:58	23°♄05'31		asc. node	2389 Apr 30 08:00	13°♄11'53		
	2388 May 16 15:13	0°♄		evening rise	2389 May 04 22:26	22°♄59'54		
evening rise	2388 May 20 11:11	8°♄15'06			2389 May 08 08:04	0°♄		
	2388 May 31 19:26	0°♄		evening max el	2389 May 26 05:58	27°♄26'08	22°16'46	
evening max el	2388 Jun 13 14:32	16°♄57'18	23°52'53		2389 May 29 04:55	0°♄		
desc. node	2388 Jun 20 11:56	22°♄05'07		desc. node	2389 Jun 07 08:58	3°♄48'18		
retrograde	2388 Jun 27 08:19	23°♄51'23		retrograde	2389 Jun 08 03:54	3°♄49'44		
evening set	2388 Jul 01 15:44	23°♄10'29		evening set	2389 Jun 11 01:54	3°♄30'54		
min. Earth dist.	2388 Jul 08 01:05	20°♄07'17	0.56222 AU		2389 Jun 19 07:25	30°♄		
inferior conj	2388 Jul 10 09:28	18°♄41'22	-4°40'20	min. Earth dist.	2389 Jun 19 12:16	29°♄53'12	0.55128 AU	
minimum elong	2388 Jul 10 04:08	18°♄49'32	4°39'35	inferior conj	2389 Jun 20 09:49	29°♄22'49	-3°31'42	
morning rise	2388 Jul 18 19:10	14°♄43'27		minimum elong	2389 Jun 20 01:47	29°♄34'09	3°29'29	
direct	2388 Jul 21 12:46	14°♄24'18		morning rise	2389 Jun 29 03:35	25°♄31'13		
morning max el	2388 Jul 31 12:52	19°♄02'45	19°55'34	direct	2389 Jul 02 03:53	25°♄10'48		
asc. node	2388 Aug 09 10:10	0°♄40'14			2389 Jul 13 03:10	0°♄		
	2388 Aug 09 00:20	0°♄		morning max el	2389 Jul 13 19:15	0°♄36'12	21°17'47	
morning set	2388 Aug 18 12:18	17°♄44'39		asc. node	2389 Jul 27 07:12	19°♄34'51		
	2388 Aug 24 12:51	0°♄			2389 Aug 01 15:25	0°♄		
				morning set	2389 Aug 02 20:30	2°♄29'34		
superior conj	2388 Aug 26 07:33	3°♄34'28	1°45'22					
minimum elong	2388 Aug 26 07:52	3°♄36'02	1°45'22	superior conj	2389 Aug 10 05:14	17°♄53'22	1°43'01	
max. Earth dist.	2388 Aug 31 23:01	14°♄33'11	1.37041 AU	minimum elong	2389 Aug 10 04:07	17°♄47'35	1°42'58	
evening rise	2388 Sep 04 18:41	21°♄36'40		max. Earth dist.	2389 Aug 14 09:42	26°♄24'55	1.35283 AU	
	2388 Sep 09 13:20	0°♄			2389 Aug 16 05:16	0°♄		
desc. node	2388 Sep 16 11:15	11°♄19'18		evening rise	2389 Aug 18 16:04	4°♄43'02		
	2388 Sep 29 08:40	0°♄			2389 Sep 02 08:54	0°♄		
evening max el	2388 Oct 10 13:38	13°♄05'33	25°38'01	desc. node	2389 Sep 03 08:17	1°♄29'58		
retrograde	2388 Oct 22 19:15	20°♄05'53		evening max el	2389 Sep 23 01:50	26°♄43'28	26°37'21	
evening set	2388 Oct 28 19:35	17°♄35'18			2389 Sep 26 19:53	0°♄		
min. Earth dist.	2388 Nov 02 04:16	12°♄48'32	0.66995 AU	retrograde	2389 Oct 06 00:22	3°♄57'23		
inferior conj	2388 Nov 03 09:41	11°♄14'36	-0°41'01	evening set	2389 Oct 12 14:03	1°♄16'33		
minimum elong	2388 Nov 03 10:44	11°♄11'12	0°40'34		2389 Oct 13 23:52	30°♄		
asc. node	2388 Nov 05 09:22	8°♄46'50		min. Earth dist.	2389 Oct 16 15:30	27°♄06'11	0.66049 AU	
morning rise	2388 Nov 09 02:10	5°♄19'36		inferior conj	2389 Oct 18 08:38	25°♄03'29	-1°39'33	
direct	2388 Nov 12 09:38	4°♄16'25		minimum elong	2389 Oct 18 11:18	24°♄55'29	1°38'28	
morning max el	2388 Nov 19 10:48	8°♄13'23	19°14'03	asc. node	2389 Oct 23 06:24	20°♄02'14		
	2388 Dec 05 05:51	0°♄		morning rise	2389 Oct 24 09:10	19°♄19'34		
morning set	2388 Dec 12 19:57	11°♄44'33		direct	2389 Oct 27 07:21	18°♄31'41		
desc. node	2388 Dec 13 10:28	12°♄41'02		morning max el	2389 Nov 02 22:33	22°♄09'30	18°29'27	
	2388 Dec 24 12:31	0°♄			2389 Nov 09 04:13	0°♄		
max. Earth dist.	2388 Dec 26 16:28	3°♄24'34	1.44782 AU	morning set	2389 Nov 22 22:29	21°♄33'14		
					2389 Nov 28 05:21	0°♄		
superior conj	2388 Dec 29 13:49	7°♄58'55	-1°35'27	desc. node	2389 Nov 30 07:32	3°♄19'18		
minimum elong	2388 Dec 29 05:04	7°♄24'11	1°34'38					
	2389 Jan 12 04:30	0°♄		superior conj	2389 Dec 08 15:39	16°♄28'12	-0°54'06	
evening rise	2389 Jan 13 03:44	1°♄35'49		minimum elong	2389 Dec 08 08:51	16°♄01'28	0°53'14	
	2389 Jan 31 14:04	0°♄		max. Earth dist.	2389 Dec 09 11:08	17°♄44'38	1.45173 AU	
asc. node	2389 Feb 01 08:42	0°♄51'27			2389 Dec 17 06:30	0°♄		
evening max el	2389 Feb 01 19:21	1°♄19'10	18°28'47	evening rise	2389 Dec 24 16:26	11°♄41'33		
retrograde	2389 Feb 08 08:07	4°♄54'04		greatest brilliancy	2390 Jan 03 05:08	26°♄43'59	-0.8m	
evening set	2389 Feb 11 09:48	4°♄01'46			2390 Jan 05 07:44	0°♄		
	2389 Feb 15 23:08	30°♄		evening max el	2390 Jan 16 05:03	14°♄46'39	19°05'23	
inferior conj	2389 Feb 17 06:12	28°♄30'25	3°39'22	asc. node	2390 Jan 19 05:42	17°♄21'59		
minimum elong	2389 Feb 17 05:11	28°♄33'23	3°39'18	retrograde	2390 Jan 23 03:25	18°♄43'12		
min. Earth dist.	2389 Feb 19 09:34	26°♄00'16	0.64449 AU	evening set	2390 Jan 26 11:25	17°♄38'35		
morning rise	2389 Feb 23 00:01	22°♄22'14		inferior conj	2390 Feb 01 01:43	11°♄50'41	3°23'06	
direct	2389 Mar 01 19:50	19°♄32'15		minimum elong	2390 Jan 31 23:38	11°♄57'19	3°22'45	
desc. node	2389 Mar 11 09:41	23°♄47'50		min. Earth dist.	2390 Feb 02 13:46	9°♄56'29	0.65893 AU	
morning max el	2389 Mar 15 09:01	27°♄23'54	27°23'38	morning rise	2390 Feb 06 11:31	5°♄38'42		

direct	2390 Feb 12 22:20	2°  48'53		min. Earth dist.	2391 Jan 17 01:32	24°  09'25	0.66935 AU
morning max el	2390 Feb 25 18:58	10°  24'52	26°28'09	morning rise	2391 Jan 21 08:40	19°  09'44	
desc. node	2390 Feb 26 06:43	10°  54'47		direct	2391 Jan 27 06:40	16°  31'19	
	2390 Mar 13 07:35	0°  ✕		morning max el	2391 Feb 08 03:49	23°  36'45	25°11'42
	2390 Mar 31 13:39	0°  Y		desc. node	2391 Feb 13 03:46	29°  09'36	
morning set	2390 Apr 02 20:23	4°  Y14'13			2391 Feb 13 20:28	0°  ≈	
max. Earth dist.	2390 Apr 06 23:37	12°  Y12'28	1.34835 AU		2391 Mar 06 16:52	0°  ✕	
				morning set	2391 Mar 16 08:54	16°  ✕31'05	
superior conj	2390 Apr 11 15:34	21°  Y36'44	-0°55'29	max. Earth dist.	2391 Mar 20 00:57	23°  ✕14'16	1.36597 AU
minimum elong	2390 Apr 11 18:24	21°  Y51'19	0°54'57		2391 Mar 23 14:23	0°  Y	
	2390 Apr 15 16:27	0°  8					
asc. node	2390 Apr 17 05:03	3°  811'17		superior conj	2391 Mar 26 04:55	5°  Y05'37	-1°22'23
evening rise	2390 Apr 19 07:12	7°  831'55		minimum elong	2391 Mar 26 08:56	5°  Y25'29	1°21'47
	2390 May 01 13:02	0°  II		evening rise	2391 Apr 03 11:13	21°  Y43'53	
evening max el	2390 May 08 06:10	8°  II17'40	20°49'38	asc. node	2391 Apr 04 02:06	22°  Y58'45	
retrograde	2390 May 19 17:10	13°  II52'37			2391 Apr 07 15:40	0°  8	
evening set	2390 May 21 20:12	13°  II41'48		evening max el	2391 Apr 20 18:15	19°  847'32	19°39'17
desc. node	2390 May 25 05:57	12°  II43'35		retrograde	2391 Apr 30 11:25	24°  829'21	
inferior conj	2390 May 31 03:29	9°  II43'59	-1°42'49	evening set	2391 May 02 11:51	24°  818'06	
minimum elong	2390 May 30 22:39	9°  II50'52	1°41'05	inferior conj	2391 May 11 04:56	20°  815'03	0°15'59
min. Earth dist.	2390 Jun 01 00:37	9°  II13'52	0.54932 AU	minimum elong	2391 May 11 05:38	20°  813'57	0°15'44
morning rise	2390 Jun 09 00:43	5°  II38'45		transit middle	2391 May 11 05:38	20°  813'57	0°15'44
direct	2390 Jun 12 13:14	5°  II12'01		transit begin	2391 May 11 04:58	20°  815'00	
morning max el	2390 Jun 25 15:36	11°  II29'16	22°55'12	transit end	2391 May 11 06:18	20°  812'54	
	2390 Jul 09 08:40	0°  ☾		desc. node	2391 May 12 02:59	19°  840'16	
asc. node	2390 Jul 14 04:17	8°  ☾57'22		min. Earth dist.	2391 May 13 14:45	18°  844'26	0.55698 AU
morning set	2390 Jul 18 07:23	17°  ☾22'39		morning rise	2391 May 19 20:49	15°  839'40	
	2390 Jul 24 05:14	0°  Ω		direct	2391 May 24 06:34	14°  856'14	
				morning max el	2391 Jun 07 06:21	21°  857'21	24°37'24
superior conj	2390 Jul 25 09:49	2°  Ω32'47	1°34'21		2391 Jun 14 07:37	0°  II	
minimum elong	2390 Jul 25 07:48	2°  Ω22'01	1°34'10	asc. node	2391 Jul 01 01:23	28°  II39'56	
max. Earth dist.	2390 Jul 28 05:11	8°  Ω28'44	1.33898 AU		2391 Jul 01 16:50	0°  ☾	
evening rise	2390 Aug 02 03:26	18°  Ω30'16		morning set	2391 Jul 02 19:13	2°  ☾18'24	
	2390 Aug 08 05:13	0°  ♐					
desc. node	2390 Aug 21 05:19	21°  ♐15'51		superior conj	2391 Jul 09 18:46	17°  ☾24'28	1°20'29
	2390 Aug 27 13:52	0°  ♐		minimum elong	2391 Jul 09 16:23	17°  ☾11'30	1°20'09
evening max el	2390 Sep 05 13:49	10°  ♐09'39	27°15'27	max. Earth dist.	2391 Jul 11 09:18	20°  ☾53'22	1.32917 AU
retrograde	2390 Sep 19 00:01	17°  ♐28'22			2391 Jul 15 16:24	0°  Ω	
evening set	2390 Sep 26 00:01	14°  ♐45'10		evening rise	2391 Jul 17 00:55	2°  Ω47'11	
min. Earth dist.	2390 Sep 29 19:02	11°  ♐10'28	0.64743 AU		2391 Aug 01 00:43	0°  ♐	
inferior conj	2390 Oct 02 00:35	8°  ♐44'01	-2°38'29	desc. node	2391 Aug 08 02:19	10°  ♐26'47	
minimum elong	2390 Oct 02 04:50	8°  ♐32'23	2°36'56	evening max el	2391 Aug 19 00:09	23°  ♐13'01	27°25'44
morning rise	2390 Oct 08 10:38	3°  ♐14'12			2391 Aug 29 09:43	0°  ♐	
asc. node	2390 Oct 10 03:27	2°  ♐42'25		retrograde	2391 Sep 01 17:29	0°  ♐30'10	
direct	2390 Oct 11 01:57	2°  ♐37'47			2391 Sep 04 22:17	30°  ♐♐	
morning max el	2390 Oct 17 13:59	6°  ♐05'40	18°01'35	evening set	2391 Sep 08 22:17	27°  ♐55'42	
	2390 Nov 02 14:07	0°  ♐		min. Earth dist.	2391 Sep 12 13:03	24°  ♐52'23	0.63099 AU
morning set	2390 Nov 04 06:08	2°  ♐47'43		inferior conj	2391 Sep 15 06:53	22°  ♐10'33	-3°34'36
desc. node	2390 Nov 17 04:35	24°  ♐03'41		minimum elong	2391 Sep 15 12:13	21°  ♐57'25	3°33'01
				morning rise	2391 Sep 22 03:31	16°  ♐58'00	
superior conj	2390 Nov 18 00:42	25°  ♐24'21	-0°05'41	direct	2391 Sep 24 14:37	16°  ♐29'29	
minimum elong	2390 Nov 18 00:01	25°  ♐21'34	0°05'35	asc. node	2391 Sep 27 00:33	16°  ♐57'31	
behind sun begin	2390 Nov 17 14:02	24°  ♐41'34		morning max el	2391 Oct 01 06:15	19°  ♐55'33	17°51'18
behind sun end	2390 Nov 18 09:59	26°  ♐01'30			2391 Oct 08 17:28	0°  ♐	
	2390 Nov 20 21:55	0°  ♐		morning set	2391 Oct 17 14:11	15°  ♐12'55	
max. Earth dist.	2390 Nov 22 05:52	2°  ♐06'27	1.44823 AU		2391 Oct 26 02:37	0°  ♐	
evening rise	2390 Dec 04 09:03	21°  ♐01'15					
	2390 Dec 10 05:16	0°  ♐		superior conj	2391 Oct 29 09:06	5°  ♐30'36	0°38'15
greatest brilliancy	2390 Dec 18 09:22	12°  ♐20'28	-0.6m	minimum elong	2391 Oct 29 12:42	5°  ♐45'40	0°37'44
evening max el	2390 Dec 30 10:23	28°  ♐16'23	19°58'00	desc. node	2391 Nov 04 01:37	14°  ♐51'05	
	2391 Jan 01 06:09	0°  ≈		max. Earth dist.	2391 Nov 04 22:17	16°  ♐14'23	1.43786 AU
asc. node	2391 Jan 06 02:44	2°  ≈38'23		evening rise	2391 Nov 13 17:37	0°  ♐06'47	
retrograde	2391 Jan 07 01:05	2°  ≈43'10			2391 Nov 13 15:52	0°  ♐	
evening set	2391 Jan 10 16:55	1°  ≈24'56			2391 Dec 03 22:16	0°  ♐	
	2391 Jan 12 08:22	30°  ♐♐		evening max el	2391 Dec 13 10:22	11°  ♐47'46	21°04'00
inferior conj	2391 Jan 16 03:28	25°  ♐23'10	2°55'27	retrograde	2391 Dec 21 22:50	16°  ♐50'42	
minimum elong	2391 Jan 16 00:54	25°  ♐31'45	2°54'49	asc. node	2391 Dec 23 23:47	16°  ♐27'38	

evening set	2391 Dec 26 00:20	15° ♁ 17'20		retrograde	2392 Dec 04 18:53	1° ♁ 01'58	
inferior conj	2391 Dec 31 09:04	9° ♁ 04'42	2°18'57		2392 Dec 08 05:12	30° ♁ 12'06	
minimum elong	2391 Dec 31 06:33	9° ♁ 13'20	2°18'08	evening set	2392 Dec 09 07:55	29° ♁ 12'06	
min. Earth dist.	2391 Dec 31 18:36	8° ♁ 31'52	0.67584 AU	asc. node	2392 Dec 09 20:50	28° ♁ 44'11	
morning rise	2392 Jan 05 12:35	2° ♁ 51'44		inferior conj	2392 Dec 14 16:25	22° ♁ 51'56	1°35'17
direct	2392 Jan 10 19:56	0° ♁ 32'17		minimum elong	2392 Dec 14 14:25	22° ♁ 58'49	1°34'32
morning max el	2392 Jan 21 12:16	6° ♁ 54'07	23°44'37	min. Earth dist.	2392 Dec 14 14:35	22° ♁ 58'15	0.67859 AU
desc. node	2392 Jan 31 00:50	18° ♁ 12'58		morning rise	2392 Dec 19 20:47	16° ♁ 41'17	
	2392 Feb 08 11:22	0° ♁		direct	2392 Dec 24 13:09	14° ♁ 44'24	
morning set	2392 Feb 25 22:45	27° ♁ 38'39		morning max el	2393 Jan 02 23:25	20° ♁ 17'39	22°16'45
	2392 Feb 27 07:41	0° ♁			2393 Jan 11 04:10	0° ♁	
max. Earth dist.	2392 Feb 29 20:03	4° ♁ 23'41	1.38682 AU	desc. node	2393 Jan 16 21:52	7° ♁ 50'38	
					2393 Jan 31 17:15	0° ♁	
superior conj	2392 Mar 08 05:23	17° ♁ 53'25	-1°45'29	morning set	2393 Feb 05 08:24	7° ♁ 23'47	
minimum elong	2392 Mar 08 09:43	18° ♁ 13'50	1°45'04	max. Earth dist.	2393 Feb 10 17:12	16° ♁ 16'15	1.40833 AU
	2392 Mar 14 12:29	0° ♁					
evening rise	2392 Mar 17 07:55	5° ♁ 29'20		superior conj	2393 Feb 18 12:13	29° ♁ 48'14	-2°01'17
asc. node	2392 Mar 20 23:08	12° ♁ 29'36		minimum elong	2393 Feb 18 15:04	0° ♁ 00'58	2°01'10
	2392 Mar 31 21:30	0° ♁			2393 Feb 18 14:51	0° ♁	
evening max el	2392 Apr 02 17:07	1° ♁ 56'26	18°48'32	evening rise	2393 Feb 28 18:03	18° ♁ 40'22	
retrograde	2392 Apr 10 21:48	5° ♁ 55'57			2393 Mar 06 21:49	0° ♁	
evening set	2392 Apr 13 03:18	5° ♁ 39'22		asc. node	2393 Mar 07 20:09	1° ♁ 38'02	
inferior conj	2392 Apr 21 00:48	1° ♁ 19'37	1°53'56	evening max el	2393 Mar 16 23:45	14° ♁ 37'07	18°17'59
minimum elong	2392 Apr 21 04:31	1° ♁ 12'49	1°52'49	retrograde	2393 Mar 24 03:30	18° ♁ 10'59	
	2392 Apr 22 20:13	30° ♁		evening set	2393 Mar 26 15:04	17° ♁ 46'14	
min. Earth dist.	2392 Apr 24 07:14	28° ♁ 57'31	0.57263 AU	inferior conj	2393 Apr 02 18:07	13° ♁ 05'44	2°58'42
desc. node	2392 Apr 28 00:01	26° ♁ 41'29		minimum elong	2393 Apr 02 21:39	12° ♁ 58'10	2°57'57
morning rise	2392 Apr 29 02:35	26° ♁ 10'09		min. Earth dist.	2393 Apr 06 04:19	10° ♁ 11'29	0.59293 AU
direct	2392 May 04 13:33	24° ♁ 57'49		morning rise	2393 Apr 10 01:41	7° ♁ 28'37	
	2392 May 16 03:37	0° ♁		desc. node	2393 Apr 14 21:02	5° ♁ 46'31	
morning max el	2392 May 18 21:32	2° ♁ 27'25	26°09'21	direct	2393 Apr 16 09:31	5° ♁ 40'17	
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morning set	2392 Jun 16 06:22	17° ♁ 11'15			2393 May 13 21:55	0° ♁	
asc. node	2392 Jun 16 22:25	18° ♁ 36'12			2393 May 30 16:50	0° ♁	
	2392 Jun 22 04:21	0° ♁		morning set	2393 May 31 15:13	1° ♁ 56'03	
				asc. node	2393 Jun 03 19:27	8° ♁ 41'19	
superior conj	2392 Jun 23 06:00	2° ♁ 21'04	1°02'17				
minimum elong	2392 Jun 23 03:45	2° ♁ 08'40	1°01'53	superior conj	2393 Jun 07 17:46	17° ♁ 16'58	0°40'28
max. Earth dist.	2392 Jun 23 19:20	3° ♁ 34'20	1.32338 AU	minimum elong	2393 Jun 07 16:05	17° ♁ 07'42	0°40'07
evening rise	2392 Jun 30 05:22	17° ♁ 23'37		max. Earth dist.	2393 Jun 07 07:37	16° ♁ 21'06	1.32149 AU
	2392 Jul 06 13:26	0° ♁			2393 Jun 13 13:33	0° ♁	
desc. node	2392 Jul 24 23:21	28° ♁ 47'41		evening rise	2393 Jun 14 14:19	2° ♁ 11'39	
	2392 Jul 25 23:19	0° ♁			2393 Jun 29 14:17	0° ♁	
evening max el	2392 Jul 31 06:08	5° ♁ 39'24	27°03'33	desc. node	2393 Jul 11 20:21	15° ♁ 57'53	
retrograde	2392 Aug 14 03:31	12° ♁ 52'47		evening max el	2393 Jul 13 05:13	17° ♁ 19'03	26°08'28
evening set	2392 Aug 21 04:36	10° ♁ 39'59		retrograde	2393 Jul 27 04:53	24° ♁ 29'17	
min. Earth dist.	2392 Aug 24 20:25	7° ♁ 58'16	0.61176 AU	evening set	2393 Aug 02 14:14	22° ♁ 49'55	
inferior conj	2392 Aug 28 00:13	5° ♁ 14'07	-4°22'47	min. Earth dist.	2393 Aug 06 17:51	22° ♁ 13'51	0.59114 AU
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morning rise	2392 Sep 04 07:54	0° ♁ 22'10		minimum elong	2393 Aug 10 03:46	17° ♁ 39'44	4°54'25
	2392 Sep 06 03:53	30° ♁		morning rise	2393 Aug 17 19:28	13° ♁ 16'07	
direct	2392 Sep 06 17:40	29° ♁ 58'38		direct	2393 Aug 20 06:38	12° ♁ 55'27	
	2392 Sep 07 07:24	0° ♁		morning max el	2393 Aug 28 04:47	16° ♁ 43'37	18°28'03
asc. node	2392 Sep 12 21:37	2° ♁ 39'11		asc. node	2393 Aug 30 18:40	19° ♁ 33'02	
morning max el	2392 Sep 13 20:13	3° ♁ 30'55	17°59'41		2393 Sep 06 15:30	0° ♁	
morning set	2392 Sep 29 16:14	28° ♁ 29'28		morning set	2393 Sep 13 07:04	12° ♁ 22'48	
	2392 Sep 30 11:52	0° ♁					
superior conj	2392 Oct 09 20:24	16° ♁ 55'41	1°11'21	superior conj	2393 Sep 22 06:46	29° ♁ 29'00	1°32'36
minimum elong	2392 Oct 10 00:50	17° ♁ 15'09	1°10'50	minimum elong	2393 Sep 22 09:57	29° ♁ 43'44	1°32'21
max. Earth dist.	2392 Oct 17 10:20	29° ♁ 52'27	1.42190 AU		2393 Sep 22 13:28	0° ♁	
	2392 Oct 17 12:09	0° ♁		max. Earth dist.	2393 Sep 29 17:04	12° ♁ 48'20	1.40232 AU
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evening rise	2392 Oct 23 10:57	9° ♁ 39'29		desc. node	2393 Oct 07 19:40	26° ♁ 20'20	
	2392 Nov 05 19:14	0° ♁			2393 Oct 10 02:49	0° ♁	
evening max el	2392 Nov 25 04:54	25° ♁ 20'07	22°19'31	evening max el	2393 Oct 31 00:50	0° ♁	
	2392 Dec 01 01:26	0° ♁		retrograde	2393 Nov 07 19:11	8° ♁ 54'53	23°39'22
					2393 Nov 18 11:57	15° ♁ 13'50	

































































































































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asc. node	2393 Nov 26 17:52	9° ♊ 42'52	desc. node	2394 Sep 24 16:41	16° ♊ 54'50
inferior conj	2393 Nov 28 23:43	6° ♊ 43'07 0°45'48		2394 Oct 03 07:43	0° ♊
minimum elong	2393 Nov 28 22:39	6° ♊ 46'44 0°45'21	evening max el	2394 Oct 21 07:23	22° ♊ 33'27 24°57'12
min. Earth dist.	2393 Nov 28 11:11	7° ♊ 25'51 0.67784 AU	retrograde	2394 Nov 02 01:04	29° ♊ 22'25
morning rise	2393 Dec 04 07:12	0° ♊ 36'39	evening set	2394 Nov 07 17:11	26° ♊ 59'42
	2393 Dec 05 04:28	30° ♊	min. Earth dist.	2394 Nov 12 06:07	21° ♊ 52'33 0.67372 AU
direct	2393 Dec 08 09:24	29° ♊ 02'36	inferior conj	2394 Nov 13 05:16	20° ♊ 36'20 -0°08'17
	2393 Dec 11 19:53	0° ♊	minimum elong	2394 Nov 13 05:28	20° ♊ 35'39 0°08'12
morning max el	2393 Dec 16 16:46	3° ♊ 51'13 20°55'48	transit middle	2394 Nov 13 05:28	20° ♊ 35'39 0°08'12
desc. node	2394 Jan 03 18:53	27° ♊ 53'00	transit begin	2394 Nov 13 03:05	20° ♊ 43'31
	2394 Jan 05 05:02	0° ♊	transit end	2394 Nov 13 07:51	20° ♊ 27'48
morning set	2394 Jan 15 15:01	15° ♊ 54'49	asc. node	2394 Nov 13 14:53	20° ♊ 04'42
max. Earth dist.	2394 Jan 23 21:04	29° ♊ 03'51 1.42763 AU	morning rise	2394 Nov 18 17:55	14° ♊ 36'20
	2394 Jan 24 10:51	0° ♊	direct	2394 Nov 22 07:34	13° ♊ 22'54
			morning max el	2394 Nov 29 17:56	17° ♊ 36'07 19°46'59
superior conj	2394 Jan 30 20:06	10° ♊ 37'03 -2°05'05		2394 Dec 09 11:53	0° ♊
minimum elong	2394 Jan 30 18:50	10° ♊ 31'43 2°05'04	greatest brilliancy	2394 Dec 13 02:46	5° ♊ 17'25 -0.7m
	2394 Feb 10 22:31	0° ♊	desc. node	2394 Dec 21 15:55	18° ♊ 13'29
evening rise	2394 Feb 11 13:37	1° ♊ 07'27	morning set	2394 Dec 25 11:07	24° ♊ 04'21
asc. node	2394 Feb 22 17:10	20° ♊ 15'57		2394 Dec 29 06:52	0° ♊
evening max el	2394 Feb 28 10:51	27° ♊ 39'47 18°07'13	max. Earth dist.	2395 Jan 06 08:06	12° ♊ 39'29 1.44221 AU
	2394 Mar 03 09:52	0° ♊			
retrograde	2394 Mar 07 01:13	1° ♊ 03'41	superior conj	2395 Jan 11 01:47	20° ♊ 15'05 -1°51'52
evening set	2394 Mar 09 18:17	0° ♊ 29'07	minimum elong	2395 Jan 10 18:59	19° ♊ 47'35 1°51'25
	2394 Mar 10 18:14	30° ♊		2395 Jan 17 00:45	0° ♊
inferior conj	2394 Mar 16 06:31	25° ♊ 28'00 3°32'32	evening rise	2395 Jan 24 14:19	12° ♊ 42'49
minimum elong	2394 Mar 16 08:18	25° ♊ 23'36 3°32'20		2395 Feb 03 21:52	0° ♊
min. Earth dist.	2394 Mar 19 08:48	22° ♊ 26'10 0.61443 AU	asc. node	2395 Feb 09 14:12	8° ♊ 14'20
morning rise	2394 Mar 22 20:40	19° ♊ 33'02	evening max el	2395 Feb 11 23:29	10° ♊ 57'10 18°15'37
direct	2394 Mar 29 16:28	17° ♊ 11'13	retrograde	2395 Feb 18 10:24	14° ♊ 24'36
desc. node	2394 Apr 01 18:04	17° ♊ 37'39	evening set	2395 Feb 21 08:47	13° ♊ 39'10
morning max el	2394 Apr 12 20:56	25° ♊ 06'32 27°47'57	inferior conj	2395 Feb 27 10:01	8° ♊ 18'36 3°42'11
	2394 Apr 17 08:42	0° ♊	minimum elong	2395 Feb 27 09:54	8° ♊ 18'55 3°42'11
	2394 May 07 07:21	0° ♊	min. Earth dist.	2395 Mar 01 22:27	5° ♊ 31'50 0.63443 AU
morning set	2394 May 15 19:46	16° ♊ 25'21	morning rise	2395 Mar 05 10:08	2° ♊ 13'45
asc. node	2394 May 21 16:28	28° ♊ 50'06		2395 Mar 09 07:57	30° ♊
max. Earth dist.	2394 May 21 18:09	28° ♊ 59'15 1.32349 AU	direct	2395 Mar 12 08:24	29° ♊ 29'33
	2394 May 22 05:20	0° ♊		2395 Mar 15 12:19	0° ♊
			desc. node	2395 Mar 19 15:05	1° ♊ 58'50
superior conj	2394 May 23 04:19	2° ♊ 05'24 0°15'43	morning max el	2395 Mar 26 04:32	7° ♊ 25'51 27°42'21
minimum elong	2394 May 23 03:36	2° ♊ 01'28 0°15'34		2395 Apr 12 12:27	0° ♊
behind sun begin	2394 May 23 02:36	1° ♊ 56'03		2395 Apr 29 11:22	0° ♊
behind sun end	2394 May 23 04:35	2° ♊ 06'53	morning set	2395 Apr 29 17:46	0° ♊ 31'51
evening rise	2394 May 30 01:36	17° ♊ 03'12	max. Earth dist.	2395 May 04 22:54	11° ♊ 15'33 1.32963 AU
	2394 Jun 05 11:09	0° ♊			
evening max el	2394 Jun 24 21:16	28° ♊ 13'16 24°46'49	superior conj	2395 May 07 11:55	16° ♊ 40'54 -0°11'13
	2394 Jun 26 20:32	0° ♊	minimum elong	2395 May 07 12:28	16° ♊ 43'51 0°11'05
desc. node	2394 Jun 28 17:21	1° ♊ 28'16	behind sun begin	2395 May 07 08:38	16° ♊ 23'16
retrograde	2394 Jul 08 19:59	5° ♊ 17'20	behind sun end	2395 May 07 16:18	17° ♊ 04'28
evening set	2394 Jul 14 00:02	4° ♊ 16'43	asc. node	2395 May 08 13:30	18° ♊ 58'39
min. Earth dist.	2394 Jul 19 08:32	1° ♊ 27'35 0.57159 AU		2395 May 13 16:14	0° ♊
	2394 Jul 21 14:13	30° ♊	evening rise	2395 May 14 13:23	1° ♊ 52'16
inferior conj	2394 Jul 22 06:07	29° ♊ 33'44 -4°57'33		2395 May 30 03:22	0° ♊
minimum elong	2394 Jul 22 03:58	29° ♊ 37'17 4°57'26	evening max el	2395 Jun 06 10:53	8° ♊ 42'59 23°11'38
morning rise	2394 Jul 30 10:35	25° ♊ 26'37	desc. node	2395 Jun 15 14:22	14° ♊ 43'58
direct	2394 Aug 02 01:11	25° ♊ 07'26	retrograde	2395 Jun 19 22:40	15° ♊ 26'59
morning max el	2394 Aug 11 04:48	29° ♊ 23'48 19°17'33	evening set	2395 Jun 23 14:27	14° ♊ 57'39
	2394 Aug 11 19:46	0° ♊	min. Earth dist.	2395 Jun 30 20:30	11° ♊ 41'02 0.55657 AU
asc. node	2394 Aug 17 15:41	7° ♊ 23'38	inferior conj	2395 Jul 02 15:36	10° ♊ 37'56 -4°17'14
morning set	2394 Aug 28 06:48	26° ♊ 41'55	minimum elong	2395 Jul 02 08:28	10° ♊ 48'25 4°15'48
	2394 Aug 29 22:28	0° ♊	morning rise	2395 Jul 11 04:58	6° ♊ 44'28
			direct	2395 Jul 14 00:47	6° ♊ 25'15
superior conj	2394 Sep 05 10:31	12° ♊ 54'03 1°43'18	morning max el	2395 Jul 24 17:51	11° ♊ 23'04 20°28'16
minimum elong	2394 Sep 05 11:51	13° ♊ 00'31 1°43'15	asc. node	2395 Aug 04 12:44	25° ♊ 58'13
max. Earth dist.	2394 Sep 11 20:42	25° ♊ 02'05 1.38165 AU		2395 Aug 06 18:30	0° ♊
	2394 Sep 14 14:54	0° ♊	morning set	2395 Aug 12 12:33	11° ♊ 19'09

superior conj	2395 Aug 20 02:46	26°♎56'31	1°45'14	superior conj	2396 Aug 03 03:45	11°♎25'39	1°40'03
minimum elong	2395 Aug 20 02:25	26°♎54'43	1°45'13	minimum elong	2396 Aug 03 02:11	11°♎17'26	1°39'56
	2395 Aug 21 15:07	0°♎		max. Earth dist.	2396 Aug 06 17:33	18°♎50'06	1.34647 AU
max. Earth dist.	2395 Aug 25 03:03	6°♎53'39	1.36248 AU	evening rise	2396 Aug 11 06:30	27°♎51'06	
evening rise	2395 Aug 29 02:34	14°♎25'01			2396 Aug 12 09:24	0°♎	
	2395 Sep 07 00:50	0°♎		desc. node	2396 Aug 28 10:45	27°♎17'33	
desc. node	2395 Sep 11 13:43	7°♎15'58			2396 Aug 30 06:38	0°♎	
	2395 Sep 28 01:12	0°♎		evening max el	2396 Sep 15 08:00	19°♎49'22	26°56'41
evening max el	2395 Oct 03 19:28	6°♎13'45	26°05'34	retrograde	2396 Sep 28 12:06	27°♎05'39	
retrograde	2395 Oct 16 09:20	13°♎21'44		evening set	2396 Oct 05 06:35	24°♎23'02	
evening set	2395 Oct 22 15:24	10°♎46'15		min. Earth dist.	2396 Oct 09 05:17	20°♎27'50	0.65535 AU
min. Earth dist.	2395 Oct 26 20:58	6°♎14'38	0.66624 AU	inferior conj	2396 Oct 11 03:31	18°♎14'36	-2°04'40
inferior conj	2395 Oct 28 07:13	4°♎28'02	-1°05'41	minimum elong	2396 Oct 11 06:53	18°♎04'53	2°03'20
minimum elong	2395 Oct 28 08:57	4°♎22'38	1°04'57	morning rise	2396 Oct 17 07:54	12°♎36'01	
asc. node	2395 Oct 31 11:56	0°♎45'32		asc. node	2396 Oct 17 08:59	12°♎34'40	
	2395 Nov 01 06:56	30°♎		direct	2396 Oct 20 02:55	11°♎53'19	
morning rise	2395 Nov 03 02:54	28°♎37'10		morning max el	2396 Oct 26 15:51	15°♎25'51	18°15'29
direct	2395 Nov 06 06:04	27°♎41'01			2396 Nov 06 05:08	0°♎	
	2395 Nov 11 11:31	0°♎		morning set	2396 Nov 14 13:03	13°♎31'02	
morning max el	2395 Nov 13 02:16	1°♎29'02	18°53'05	desc. node	2396 Nov 24 10:02	29°♎27'54	
	2395 Dec 02 22:56	0°♎			2396 Nov 24 18:05	0°♎	
morning set	2395 Dec 04 21:51	3°♎04'18					
desc. node	2395 Dec 08 12:58	8°♎46'24		superior conj	2396 Nov 29 11:40	7°♎30'19	-0°33'40
max. Earth dist.	2395 Dec 20 00:37	26°♎47'51	1.45037 AU	minimum elong	2396 Nov 29 07:20	7°♎13'13	0°33'05
				max. Earth dist.	2396 Dec 01 19:59	11°♎12'05	1.45119 AU
superior conj	2395 Dec 21 09:28	28°♎57'02	-1°19'35		2396 Dec 13 20:26	0°♎	
minimum elong	2395 Dec 21 00:40	28°♎22'26	1°18'37	evening rise	2396 Dec 15 19:42	3°♎04'26	
	2395 Dec 22 01:27	0°♎		greatest brilliancy	2396 Dec 27 11:40	21°♎09'52	-0.7m
evening rise	2396 Jan 05 16:25	23°♎20'29			2397 Jan 02 11:35	0°♎	
	2396 Jan 09 18:58	0°♎		evening max el	2397 Jan 08 19:07	7°♎51'54	19°25'57
evening max el	2396 Jan 26 10:59	24°♎22'37	18°42'18	asc. node	2397 Jan 13 08:17	11°♎22'16	
asc. node	2396 Jan 27 11:14	25°♎21'01		retrograde	2397 Jan 15 23:27	11°♎59'54	
retrograde	2396 Feb 02 02:54	28°♎05'15		evening set	2397 Jan 19 10:42	10°♎49'30	
evening set	2396 Feb 05 07:08	27°♎07'54		inferior conj	2397 Jan 24 23:08	4°♎55'25	3°12'33
inferior conj	2396 Feb 11 00:39	21°♎29'31	3°33'59	minimum elong	2397 Jan 24 20:47	5°♎03'05	3°12'05
minimum elong	2396 Feb 10 23:06	21°♎34'12	3°33'50	min. Earth dist.	2397 Jan 26 05:01	3°♎18'21	0.66394 AU
min. Earth dist.	2396 Feb 12 21:30	19°♎13'32	0.65120 AU		2397 Jan 28 23:20	30°♎	
morning rise	2396 Feb 16 14:38	15°♎19'30		morning rise	2397 Jan 30 06:38	28°♎42'51	
direct	2396 Feb 23 07:25	12°♎27'41		direct	2397 Feb 05 12:26	25°♎56'47	
desc. node	2396 Mar 05 12:08	18°♎14'33			2397 Feb 14 08:07	0°♎	
morning max el	2396 Mar 07 14:06	20°♎14'12	27°03'03	morning max el	2397 Feb 17 23:34	3°♎20'40	25°57'34
	2396 Mar 15 23:39	0°♎		desc. node	2397 Feb 20 09:11	5°♎53'17	
	2396 Apr 04 14:11	0°♎			2397 Mar 10 06:26	0°♎	
morning set	2396 Apr 12 06:10	14°♎05'51		morning set	2397 Mar 26 04:54	26°♎55'14	
max. Earth dist.	2396 Apr 16 18:13	23°♎00'32	1.34021 AU		2397 Mar 27 20:32	0°♎	
	2396 Apr 20 03:39	0°♎		max. Earth dist.	2397 Mar 30 02:07	4°♎15'10	1.35541 AU
superior conj	2396 Apr 20 14:32	0°♎56'55	-0°39'18	superior conj	2397 Apr 04 09:40	14°♎45'50	-1°07'10
minimum elong	2396 Apr 20 16:33	1°♎07'24	0°38'53	minimum elong	2397 Apr 04 13:03	15°♎03'03	1°06'35
asc. node	2396 Apr 24 10:34	9°♎02'49		asc. node	2397 Apr 11 07:37	28°♎58'03	
evening rise	2396 Apr 27 23:49	16°♎32'35			2397 Apr 11 19:40	0°♎	
	2396 May 04 18:20	0°♎		evening rise	2397 Apr 12 06:53	0°♎57'27	
evening max el	2396 May 18 05:34	19°♎19'31	21°38'03		2397 Apr 29 23:59	0°♎	
retrograde	2396 May 30 14:03	25°♎23'21		evening max el	2397 Apr 30 10:46	0°♎26'42	20°17'20
desc. node	2396 Jun 01 11:22	25°♎15'14		retrograde	2397 May 11 03:40	5°♎38'22	
evening set	2396 Jun 02 01:46	25°♎09'22		evening set	2397 May 13 04:19	5°♎27'59	
inferior conj	2396 Jun 11 11:31	21°♎08'02	-2°49'00	desc. node	2397 May 19 08:23	3°♎09'33	
minimum elong	2396 Jun 11 04:11	21°♎18'18	2°46'40	inferior conj	2397 May 22 06:44	1°♎29'37	-0°51'29
min. Earth dist.	2396 Jun 11 08:12	21°♎12'41	0.54927 AU	minimum elong	2397 May 22 04:19	1°♎33'10	0°50'35
morning rise	2396 Jun 20 07:32	17°♎12'54		min. Earth dist.	2397 May 23 20:52	0°♎33'36	0.55148 AU
direct	2396 Jun 23 12:16	16°♎50'31			2397 May 24 20:16	30°♎	
morning max el	2396 Jul 05 19:32	22°♎38'27	21°57'48	morning rise	2397 May 31 02:59	27°♎13'30	
	2396 Jul 12 05:11	0°♎		direct	2397 Jun 03 23:45	26°♎41'10	
asc. node	2396 Jul 21 09:48	15°♎06'19			2397 Jun 13 11:33	0°♎	
morning set	2396 Jul 26 22:09	26°♎08'46		morning max el	2397 Jun 17 12:41	3°♎17'53	23°38'58
	2396 Jul 28 18:12	0°♎			2397 Jul 05 22:13	0°♎	
				asc. node	2397 Jul 08 06:52	4°♎38'30	

morning set	2397 Jul 11 09:40	11°☾04'11		asc. node	2398 Jun 25 03:57	24°♊27'59	
				morning set	2398 Jun 25 21:26	25°♊59'56	
					2398 Jun 27 18:26	0°☾	
superior conj	2397 Jul 18 10:28	26°☾11'21	1°29'03				
minimum elong	2397 Jul 18 08:14	25°☾59'19	1°28'47				
	2397 Jul 20 05:08	0°♊		superior conj	2398 Jul 02 20:38	11°☾06'18	1°13'14
max. Earth dist.	2397 Jul 20 17:15	1°♊04'25	1.33434 AU	minimum elong	2398 Jul 02 18:15	10°☾53'15	1°12'53
evening rise	2397 Jul 25 22:36	11°♊52'29		max. Earth dist.	2398 Jul 04 00:17	13°☾37'15	1.32623 AU
	2397 Aug 04 15:35	0°♊		evening rise	2398 Jul 09 23:23	26°☾18'47	
desc. node	2397 Aug 15 07:46	16°♊50'15			2398 Jul 11 18:51	0°♊	
	2397 Aug 25 17:53	0°♊			2398 Jul 29 01:55	0°♊	
evening max el	2397 Aug 28 19:36	3°♊07'41	27°23'31	desc. node	2398 Aug 02 04:45	5°♊42'04	
retrograde	2397 Sep 11 08:53	10°♊25'27		evening max el	2398 Aug 11 04:08	15°♊55'53	27°20'13
evening set	2397 Sep 18 11:57	7°♊44'28		retrograde	2398 Aug 24 23:20	23°♊11'53	
min. Earth dist.	2397 Sep 22 04:49	4°♊24'05	0.64090 AU	evening set	2398 Sep 01 03:58	20°♊44'37	
inferior conj	2397 Sep 24 15:42	1°♊50'00	-3°02'51	min. Earth dist.	2398 Sep 04 18:06	17°♊52'24	0.62313 AU
minimum elong	2397 Sep 24 20:30	1°♊37'24	3°01'14	inferior conj	2398 Sep 07 16:51	15°♊07'24	-3°56'24
	2397 Sep 26 10:46	30°♊		minimum elong	2398 Sep 07 22:19	14°♊54'36	3°55'00
morning rise	2397 Oct 01 06:09	26°♊27'09		morning rise	2398 Sep 14 18:13	10°♊03'37	
direct	2397 Oct 03 19:28	25°♊54'22		direct	2398 Sep 17 04:24	9°♊37'35	
asc. node	2397 Oct 04 06:03	25°♊55'22		asc. node	2398 Sep 21 03:07	10°♊48'43	
morning max el	2397 Oct 10 07:59	29°♊20'06	17°55'02	morning max el	2398 Sep 23 23:42	13°♊05'00	17°52'32
	2397 Oct 10 23:25	0°♊			2398 Oct 05 11:04	0°♊	
morning set	2397 Oct 27 07:49	25°♊18'00		morning set	2398 Oct 10 00:10	8°♊06'34	
	2397 Oct 30 01:56	0°♊					
				superior conj	2398 Oct 21 01:19	27°♊33'05	0°53'46
superior conj	2397 Nov 09 05:20	16°♊52'43	0°14'04	minimum elong	2398 Oct 21 05:39	27°♊51'32	0°53'12
minimum elong	2397 Nov 09 06:55	16°♊59'07	0°13'49		2398 Oct 22 11:57	0°♊	
behind sun begin	2397 Nov 09 01:39	16°♊37'41		max. Earth dist.	2398 Oct 28 05:03	9°♊27'57	1.43160 AU
behind sun end	2397 Nov 09 12:11	17°♊20'31		desc. node	2398 Oct 29 04:05	11°♊01'25	
desc. node	2397 Nov 11 07:05	20°♊14'03		evening rise	2398 Nov 04 17:06	21°♊24'42	
max. Earth dist.	2397 Nov 14 14:31	25°♊31'51	1.44462 AU		2398 Nov 10 07:03	0°♊	
	2397 Nov 17 10:20	0°♊			2398 Dec 01 12:04	0°♊	
evening rise	2397 Nov 25 06:58	12°♊13'29		evening max el	2398 Dec 05 19:36	4°♊53'14	21°35'16
	2397 Dec 07 00:20	0°♊		retrograde	2398 Dec 14 18:47	10°♊13'20	
evening max el	2397 Dec 22 22:13	21°♊22'27	20°24'37	asc. node	2398 Dec 18 02:20	9°♊12'57	
retrograde	2397 Dec 30 21:29	26°♊04'04		evening set	2398 Dec 19 00:55	8°♊33'03	
asc. node	2397 Dec 31 05:18	26°♊03'29		inferior conj	2398 Dec 24 09:20	2°♊16'31	2°01'15
evening set	2398 Jan 03 17:16	24°♊39'22		minimum elong	2398 Dec 24 07:00	2°♊24'37	2°00'25
inferior conj	2398 Jan 09 02:47	18°♊32'22	2°40'58	min. Earth dist.	2398 Dec 24 13:53	2°♊00'44	0.67734 AU
minimum elong	2398 Jan 09 00:11	18°♊41'12	2°40'13		2398 Dec 26 01:17	30°♊	
min. Earth dist.	2398 Jan 09 19:15	17°♊36'28	0.67254 AU	morning rise	2398 Dec 29 12:54	26°♊04'09	
morning rise	2398 Jan 14 06:57	12°♊19'02		direct	2399 Jan 03 13:43	23°♊54'13	
direct	2398 Jan 19 22:45	9°♊48'19		morning max el	2399 Jan 13 17:27	29°♊56'11	23°06'54
morning max el	2398 Jan 31 08:12	16°♊36'16	24°35'31		2399 Jan 13 18:57	0°♊	
desc. node	2398 Feb 07 06:15	24°♊31'09		desc. node	2399 Jan 25 03:17	13°♊50'24	
	2398 Feb 11 11:06	0°♊			2399 Feb 05 07:35	0°♊	
	2398 Mar 03 06:01	0°♊		morning set	2399 Feb 17 11:01	19°♊19'20	
morning set	2398 Mar 08 08:39	8°♊45'35		max. Earth dist.	2399 Feb 21 19:19	26°♊42'15	1.39597 AU
max. Earth dist.	2398 Mar 12 00:28	15°♊18'39	1.37457 AU		2399 Feb 23 16:40	0°♊	
superior conj	2398 Mar 18 18:06	27°♊59'15	-1°32'49	superior conj	2399 Mar 01 11:37	10°♊25'39	-1°53'21
minimum elong	2398 Mar 18 22:24	28°♊20'08	1°32'16	minimum elong	2399 Mar 01 15:36	10°♊44'01	1°53'02
	2398 Mar 19 18:55	0°♊		evening rise	2399 Mar 11 00:51	28°♊31'57	
evening rise	2398 Mar 27 08:14	15°♊00'12			2399 Mar 11 19:14	0°♊	
asc. node	2398 Mar 29 04:39	18°♊39'51		asc. node	2399 Mar 16 01:40	8°♊02'04	
	2398 Apr 04 06:34	0°♊		evening max el	2399 Mar 27 06:12	24°♊37'33	18°33'06
evening max el	2398 Apr 13 03:40	12°♊14'05	19°15'09	retrograde	2399 Apr 03 23:00	28°♊24'17	
retrograde	2398 Apr 22 04:22	16°♊36'36		evening set	2399 Apr 06 06:59	28°♊04'38	
evening set	2398 Apr 24 06:23	16°♊23'36		inferior conj	2399 Apr 13 20:19	23°♊36'31	2°25'29
inferior conj	2398 May 02 15:16	12°♊13'58	1°01'12	minimum elong	2399 Apr 14 00:16	23°♊28'48	2°24'26
minimum elong	2398 May 02 17:41	12°♊09'55	1°00'23	min. Earth dist.	2399 Apr 17 06:17	20°♊57'35	0.58087 AU
min. Earth dist.	2398 May 05 11:50	10°♊19'55	0.56281 AU	morning rise	2399 Apr 21 14:29	18°♊13'44	
desc. node	2398 May 06 05:24	9°♊52'02		desc. node	2399 Apr 23 02:26	17°♊35'02	
morning rise	2398 May 11 02:01	7°♊23'43		direct	2399 Apr 27 11:07	16°♊46'16	
direct	2398 May 15 22:11	6°♊29'40		morning max el	2399 May 11 20:20	24°♊25'05	26°41'29
morning max el	2398 May 30 03:08	13°♊44'34	25°18'44		2399 May 16 22:42	0°♊	
	2398 Jun 11 21:39	0°♊			2399 Jun 04 23:02	0°♊	

morning set	2399 Jun 10 07:49	10°♊50'10			2400 May 10 23:06	0°♄	
asc. node	2399 Jun 12 00:59	14°♊28'38		morning set	2400 May 24 15:04	25°♄28'59	
					2400 May 26 18:39	0°♊	
superior conj	2399 Jun 17 08:19	26°♊03'35	0°53'26	asc. node	2400 May 28 21:59	4°♊35'44	
minimum elong	2399 Jun 17 06:16	25°♊52'13	0°53'03	max. Earth dist.	2400 May 30 23:25	9°♊05'18	1.32185 AU
max. Earth dist.	2399 Jun 17 11:32	26°♊21'16	1.32207 AU				
	2399 Jun 19 03:19	0°♄		superior conj	2400 May 31 19:48	10°♊57'11	0°30'18
evening rise	2399 Jun 24 06:01	11°♄01'03		minimum elong	2400 May 31 18:29	10°♊49'57	0°30'01
	2399 Jul 04 00:24	0°♊		evening rise	2400 Jun 07 16:12	25°♊51'35	
desc. node	2399 Jul 20 01:45	23°♊36'09			2400 Jun 09 15:40	0°♄	
evening max el	2399 Jul 24 07:18	28°♊03'03	26°43'55		2400 Jun 27 01:15	0°♊	
	2399 Jul 26 11:47	0°♎		evening max el	2400 Jul 05 03:26	9°♊23'11	25°36'28
retrograde	2399 Aug 07 06:18	5°♎15'55		desc. node	2400 Jul 05 22:45	10°♊08'15	
evening set	2399 Aug 14 02:09	3°♎16'02		retrograde	2400 Jul 19 03:37	16°♊31'16	
min. Earth dist.	2399 Aug 17 21:11	0°♎38'52	0.60299 AU	evening set	2400 Jul 25 01:47	15°♊08'47	
	2399 Aug 18 16:40	30°♎♊		min. Earth dist.	2400 Jul 29 15:37	12°♊29'02	0.58248 AU
inferior conj	2399 Aug 21 03:35	27°♊58'35	-4°38'59	inferior conj	2400 Aug 01 20:20	10°♊13'03	-5°00'22
minimum elong	2399 Aug 21 08:04	27°♊49'21	4°38'18	minimum elong	2400 Aug 01 21:17	10°♊11'22	5°00'20
morning rise	2399 Aug 28 15:58	23°♊16'25		morning rise	2400 Aug 09 19:07	5°♊53'30	
direct	2399 Aug 31 01:49	22°♊54'29		direct	2400 Aug 12 07:29	5°♊33'36	
morning max el	2399 Sep 07 11:50	26°♊32'32	18°09'13	morning max el	2400 Aug 20 17:05	9°♊32'35	18°46'24
asc. node	2399 Sep 08 00:11	27°♊03'18		asc. node	2400 Aug 24 21:13	14°♊23'10	
	2399 Sep 10 12:50	0°♎			2400 Sep 03 03:39	0°♎	
morning set	2399 Sep 23 08:14	21°♎40'35		morning set	2400 Sep 06 03:20	5°♎46'25	
	2399 Sep 27 18:48	0°♎					
superior conj	2399 Oct 02 23:09	9°♎29'34	1°21'45	superior conj	2400 Sep 14 17:35	22°♎26'47	1°38'19
minimum elong	2399 Oct 03 03:12	9°♎47'48	1°21'21	minimum elong	2400 Sep 14 20:00	22°♎38'12	1°38'10
max. Earth dist.	2399 Oct 10 14:16	22°♎47'24	1.41383 AU		2400 Sep 18 19:03	0°♎	
	2399 Oct 14 22:40	0°♎		max. Earth dist.	2400 Sep 21 19:17	5°♎24'41	1.39355 AU
evening rise	2399 Oct 15 18:25	1°♎20'09		evening rise	2400 Sep 25 18:59	12°♎19'57	
desc. node	2399 Oct 16 01:05	1°♎47'07		desc. node	2400 Oct 01 22:07	22°♎26'58	
	2399 Nov 03 18:03	0°♎			2400 Oct 06 17:52	0°♎	
evening max el	2399 Nov 18 12:06	18°♎26'41	22°53'23	evening max el	2400 Oct 29 01:38	0°♎	
retrograde	2399 Nov 28 13:46	24°♎25'17		retrograde	2400 Oct 31 01:25	2°♎03'47	24°13'11
evening set	2399 Dec 03 08:05	22°♎28'27		evening set	2400 Nov 11 05:07	8°♎36'03	
asc. node	2399 Dec 04 23:22	20°♎53'29		asc. node	2400 Nov 16 13:07	6°♎22'29	
inferior conj	2399 Dec 08 16:53	16°♎06'09	1°14'58	inferior conj	2400 Nov 20 20:25	1°♎30'02	
minimum elong	2399 Dec 08 15:15	16°♎11'49	1°14'18	minimum elong	2400 Nov 21 23:40	29°♎58'30	0°23'21
min. Earth dist.	2399 Dec 08 10:32	16°♎28'05	0.67864 AU	min. Earth dist.	2400 Nov 21 23:06	0°♎00'24	0°23'07
morning rise	2399 Dec 13 22:18	9°♎56'45			2400 Nov 21 06:44	0°♎55'32	0.67655 AU
direct	2399 Dec 18 08:29	8°♎09'34			2400 Nov 21 23:13	30°♎♎	
morning max el	2399 Dec 27 06:47	13°♎23'23	21°41'03	morning rise	2400 Nov 27 09:06	23°♎54'23	
	2400 Jan 09 10:49	0°♎		direct	2400 Dec 01 05:50	22°♎29'14	
desc. node	2400 Jan 12 00:19	3°♎39'46		morning max el	2400 Dec 09 03:15	27°♎01'11	20°24'46
morning set	2400 Jan 28 08:11	28°♎29'19			2400 Dec 11 20:30	0°♎	
	2400 Jan 29 06:54	0°♎		desc. node	2400 Dec 28 21:22	23°♎50'31	
max. Earth dist.	2400 Feb 03 18:20	8°♎55'26	1.41695 AU		2401 Jan 01 22:50	0°♎	
				morning set	2401 Jan 06 07:16	6°♎41'33	
superior conj	2400 Feb 11 09:17	21°♎53'42	-2°04'41	max. Earth dist.	2401 Jan 16 01:31	22°♎05'23	1.43458 AU
minimum elong	2400 Feb 11 10:43	21°♎59'58	2°04'39		2401 Jan 20 22:08	0°♎	
	2400 Feb 15 23:00	0°♎		superior conj	2401 Jan 22 06:10	2°♎12'18	-2°01'48
evening rise	2400 Feb 22 05:16	11°♎24'54		minimum elong	2401 Jan 22 02:30	1°♎57'09	2°01'40
asc. node	2400 Mar 01 22:41	26°♎58'26		evening rise	2401 Feb 03 17:16	23°♎30'25	
	2400 Mar 03 19:59	0°♎			2401 Feb 07 10:22	0°♎	
evening max el	2400 Mar 09 15:11	7°♎28'55	18°11'05	asc. node	2401 Feb 16 19:42	15°♎20'44	
retrograde	2400 Mar 16 11:48	10°♎56'21		evening max el	2401 Feb 21 03:20	20°♎38'50	18°08'33
evening set	2400 Mar 19 01:51	10°♎27'33		retrograde	2401 Feb 27 14:55	24°♎02'26	
inferior conj	2400 Mar 25 22:09	5°♎38'29	3°16'24	evening set	2401 Mar 02 10:22	23°♎23'11	
minimum elong	2400 Mar 26 01:02	5°♎31'56	3°15'55	inferior conj	2401 Mar 08 17:27	18°♎13'30	3°39'09
min. Earth dist.	2400 Mar 29 06:14	2°♎37'49	0.60215 AU	minimum elong	2401 Mar 08 18:24	18°♎11'02	3°39'06
morning rise	2400 Apr 01 22:02	29°♎52'49		min. Earth dist.	2401 Mar 11 14:13	15°♎15'57	0.62326 AU
	2400 Apr 01 17:26	30°♎♎		morning rise	2401 Mar 15 01:11	12°♎13'53	
direct	2400 Apr 08 12:25	27°♎48'59		direct	2401 Mar 21 23:14	9°♎41'03	
desc. node	2400 Apr 08 23:29	27°♎49'35		desc. node	2401 Mar 26 20:31	10°♎48'24	
	2400 Apr 15 16:20	0°♎		morning max el	2401 Apr 05 00:23	17°♎36'56	27°50'08
morning max el	2400 Apr 22 19:21	5°♎40'02	27°34'08		2401 Apr 15 08:25	0°♎	

	2401 May 03 16:52	0°♄			2402 Mar 18 05:15	0°♄	
morning set	2401 May 08 17:11	9°♄49'55		morning max el	2402 Mar 18 09:20	0°♄10'12	27°29'34
max. Earth dist.	2401 May 14 08:09	21°♄36'52	1.32560 AU		2402 Apr 09 08:12	0°♄	
asc. node	2401 May 15 19:01	24°♄45'10		morning set	2402 Apr 22 11:30	23°♄43'33	
					2402 Apr 25 14:33	0°♄	
superior conj	2401 May 16 05:22	25°♄41'21	0°04'34	max. Earth dist.	2402 Apr 27 09:32	3°♄41'35	1.33355 AU
minimum elong	2401 May 16 05:09	25°♄40'10	0°04'31				
behind sun begin	2401 May 16 00:10	25°♄13'07		superior conj	2402 Apr 30 11:05	10°♄08'51	-0°23'01
behind sun end	2401 May 16 10:08	26°♄07'15		minimum elong	2402 Apr 30 12:14	10°♄14'59	0°22'47
	2401 May 18 04:52	0°♄		asc. node	2402 May 02 16:03	14°♄52'04	
evening rise	2401 May 23 03:59	10°♄43'39		evening rise	2402 May 07 15:25	25°♄29'32	
	2401 Jun 02 01:01	0°♄			2402 May 09 19:26	0°♄	
evening max el	2401 Jun 16 17:51	20°♄04'37	24°07'08		2402 May 28 19:25	0°♄	
desc. node	2401 Jun 22 19:46	24°♄46'45		evening max el	2402 May 29 08:29	0°♄32'19	22°30'49
retrograde	2401 Jun 30 13:08	27°♄01'40		desc. node	2402 Jun 09 16:48	6°♄55'11	
evening set	2401 Jul 05 02:08	26°♄15'57		retrograde	2402 Jun 11 10:36	7°♄02'08	
min. Earth dist.	2401 Jul 11 04:31	23°♄16'52	0.56452 AU	evening set	2402 Jun 14 12:49	6°♄41'03	
inferior conj	2401 Jul 13 16:57	21°♄43'16	-4°46'27	min. Earth dist.	2402 Jun 22 15:49	3°♄09'14	0.55239 AU
minimum elong	2401 Jul 13 12:24	21°♄50'22	4°45'54	inferior conj	2402 Jun 23 19:24	2°♄30'04	-3°45'10
morning rise	2401 Jul 22 01:19	17°♄43'20		minimum elong	2402 Jun 23 11:23	2°♄41'27	3°43'08
direct	2401 Jul 24 18:10	17°♄24'11			2402 Jun 28 13:21	30°♄	
morning max el	2401 Aug 03 12:37	21°♄56'16	19°45'01	morning rise	2402 Jul 02 12:08	28°♄38'38	
	2401 Aug 10 02:44	0°♄		direct	2402 Jul 05 11:03	28°♄18'43	
asc. node	2401 Aug 11 18:16	2°♄34'10			2402 Jul 11 21:45	0°♄	
morning set	2401 Aug 21 06:00	20°♄14'42		morning max el	2402 Jul 16 20:46	3°♄36'38	21°04'22
	2401 Aug 26 01:30	0°♄		asc. node	2402 Jul 29 15:20	21°♄23'49	
					2402 Aug 03 03:08	0°♄	
superior conj	2401 Aug 29 03:15	6°♄09'36	1°45'05	morning set	2402 Aug 05 13:38	4°♄57'49	
minimum elong	2401 Aug 29 03:49	6°♄12'26	1°45'04				
max. Earth dist.	2401 Sep 03 23:52	17°♄28'14	1.37329 AU	superior conj	2402 Aug 12 23:38	20°♄24'41	1°43'49
evening rise	2401 Sep 07 18:42	24°♄24'22		minimum elong	2402 Aug 12 22:42	20°♄19'54	1°43'46
	2401 Sep 10 22:58	0°♄		max. Earth dist.	2402 Aug 17 09:13	29°♄18'49	1.35523 AU
desc. node	2401 Sep 18 19:08	12°♄56'30			2402 Aug 17 17:33	0°♄	
	2401 Sep 30 09:37	0°♄		evening rise	2402 Aug 21 13:35	7°♄23'37	
evening max el	2401 Oct 13 13:31	15°♄43'51	25°27'46		2402 Sep 03 15:21	0°♄	
retrograde	2401 Oct 25 16:06	22°♄41'27		desc. node	2402 Sep 05 16:10	3°♄10'06	
evening set	2401 Oct 31 14:23	20°♄12'42		evening max el	2402 Sep 26 01:38	29°♄22'29	26°29'43
min. Earth dist.	2401 Nov 05 00:07	15°♄20'42	0.67106 AU		2402 Sep 26 17:25	0°♄	
inferior conj	2401 Nov 06 03:55	13°♄51'11	-0°32'20	retrograde	2402 Oct 08 22:10	6°♄35'30	
minimum elong	2401 Nov 06 04:45	13°♄48'31	0°31'58	evening set	2402 Oct 15 09:56	3°♄55'45	
asc. node	2401 Nov 07 17:28	11°♄52'39			2402 Oct 19 05:37	30°♄	
morning rise	2401 Nov 11 19:22	7°♄54'55		min. Earth dist.	2402 Oct 19 12:24	29°♄39'54	0.66207 AU
direct	2401 Nov 15 04:23	6°♄49'13		inferior conj	2402 Oct 21 03:45	27°♄41'07	-1°30'38
morning max el	2401 Nov 22 07:41	10°♄49'57	19°22'06	minimum elong	2402 Oct 21 06:10	27°♄33'47	1°29'37
greatest brilliancy	2401 Dec 05 23:29	29°♄14'17	-0.7m	asc. node	2402 Oct 25 14:32	22°♄57'47	
	2401 Dec 06 11:33	0°♄		morning rise	2402 Oct 27 02:59	21°♄55'23	
desc. node	2401 Dec 15 18:25	14°♄16'44		direct	2402 Oct 30 02:20	21°♄05'33	
morning set	2401 Dec 16 06:51	15°♄04'55		morning max el	2402 Nov 05 18:41	24°♄45'47	18°35'03
	2401 Dec 25 20:34	0°♄			2402 Nov 10 03:57	0°♄	
max. Earth dist.	2401 Dec 29 15:48	5°♄59'02	1.44659 AU	morning set	2402 Nov 26 05:05	24°♄40'41	
					2402 Nov 29 13:19	0°♄	
superior conj	2402 Jan 02 01:11	11°♄21'56	-1°40'22	desc. node	2402 Dec 02 15:28	4°♄53'51	
minimum elong	2402 Jan 01 16:44	10°♄48'19	1°39'38				
	2402 Jan 13 12:47	0°♄		superior conj	2402 Dec 12 03:56	19°♄53'09	-1°01'08
evening rise	2402 Jan 16 08:41	4°♄41'25		minimum elong	2402 Dec 11 20:25	19°♄23'38	1°00'12
	2402 Feb 01 06:43	0°♄		max. Earth dist.	2402 Dec 12 09:53	20°♄16'27	1.45160 AU
asc. node	2402 Feb 03 16:45	2°♄58'21			2402 Dec 18 14:27	0°♄	
evening max el	2402 Feb 04 15:44	3°♄59'37	18°24'47	evening rise	2402 Dec 28 00:53	14°♄55'37	
retrograde	2402 Feb 11 03:47	7°♄32'21		greatest brilliancy	2403 Jan 05 17:48	28°♄45'33	-0.8m
evening set	2402 Feb 14 04:34	6°♄41'53			2403 Jan 06 12:45	0°♄	
inferior conj	2402 Feb 20 02:07	1°♄13'12	3°40'35	evening max el	2403 Jan 19 01:58	17°♄26'49	18°58'51
minimum elong	2402 Feb 20 01:19	1°♄15'29	3°40'34	asc. node	2403 Jan 21 13:48	19°♄39'06	
	2402 Feb 21 03:18	30°♄		retrograde	2403 Jan 25 22:29	21°♄19'35	
min. Earth dist.	2402 Feb 22 07:49	28°♄38'19	0.64196 AU	evening set	2403 Jan 29 05:27	20°♄16'57	
morning rise	2402 Feb 25 21:26	25°♄05'39		inferior conj	2403 Feb 03 20:30	14°♄31'27	3°26'19
direct	2402 Mar 04 18:02	22°♄16'48		minimum elong	2403 Feb 03 18:32	14°♄37'38	3°26'02
desc. node	2402 Mar 13 17:35	26°♄02'16		min. Earth dist.	2403 Feb 05 10:49	12°♄31'19	0.65707 AU

morning rise	2403 Feb 09 07:16	8°  19'48		minimum elong	2404 Jan 18 18:57	28°  10'42	2°59'38
direct	2403 Feb 15 19:45	5°  28'59		min. Earth dist.	2404 Jan 19 21:32	26°  42'23	0.66811 AU
desc. node	2403 Feb 28 14:38	12°  56'46		morning rise	2404 Jan 24 03:10	21°  49'02	
morning max el	2403 Feb 28 19:17	13°  08'26	26°37'53	direct	2404 Jan 30 03:19	19°  08'15	
	2403 Mar 14 10:16	0°  ✕		morning max el	2404 Feb 11 04:12	26°  18'53	25°23'56
	2403 Apr 01 23:59	0°  Y			2404 Feb 14 14:03	0°  ≈	
morning set	2403 Apr 05 18:39	7°  Y00'02		desc. node	2404 Feb 15 11:41	1°  ≈02'44	
max. Earth dist.	2403 Apr 10 00:03	15°  Y12'07	1.34609 AU		2404 Mar 07 00:17	0°  ✕	
				morning set	2404 Mar 18 09:59	19°  ✕25'49	
superior conj	2403 Apr 14 10:48	24°  Y13'38	-0°51'15	max. Earth dist.	2404 Mar 22 02:50	26°  ✕15'52	1.36312 AU
minimum elong	2403 Apr 14 13:25	24°  Y27'11	0°50'45		2404 Mar 24 02:00	0°  Y	
	2403 Apr 17 05:20	0°  8					
asc. node	2403 Apr 19 13:06	4°  852'31		superior conj	2404 Mar 28 01:46	7°  Y48'06	-1°18'30
evening rise	2403 Apr 22 00:39	10°  803'24		minimum elong	2404 Mar 28 05:39	8°  Y07'24	1°17'53
	2403 May 02 14:25	0°  II		evening rise	2404 Apr 05 05:32	24°  Y18'55	
evening max el	2403 May 11 07:03	11°  II18'44	21°01'41	asc. node	2404 Apr 05 10:09	24°  Y42'14	
retrograde	2403 May 23 00:04	17°  II01'29			2404 Apr 08 01:46	0°  8	
evening set	2403 May 25 04:40	16°  II50'12		evening max el	2404 Apr 22 17:25	22°  842'50	19°48'31
desc. node	2403 May 27 13:49	16°  II14'11		retrograde	2404 May 02 16:32	27°  831'56	
inferior conj	2403 Jun 03 13:06	12°  II52'05	-2°00'49	evening set	2404 May 04 16:45	27°  821'03	
minimum elong	2403 Jun 03 07:29	13°  II00'02	1°58'51	desc. node	2404 May 13 10:50	23°  822'21	
min. Earth dist.	2403 Jun 04 04:03	12°  II30'56	0.54897 AU	inferior conj	2404 May 13 12:30	23°  819'46	-0°01'13
morning rise	2403 Jun 12 10:15	8°  II49'59		minimum elong	2404 May 13 12:27	23°  819'51	0°01'11
direct	2403 Jun 15 20:26	8°  II24'39		transit middle	2404 May 13 12:27	23°  819'51	0°01'11
morning max el	2403 Jun 28 18:21	14°  II34'45	22°40'05	transit begin	2404 May 13 08:30	23°  825'56	
	2403 Jul 10 14:20	0°  ☿		transit end	2404 May 13 16:24	23°  813'45	
asc. node	2403 Jul 16 12:23	10°  ☿42'28		min. Earth dist.	2404 May 15 17:46	21°  857'53	0.55526 AU
morning set	2403 Jul 21 00:12	19°  ☿49'54		morning rise	2404 May 22 05:48	18°  849'41	
	2403 Jul 25 18:51	0°  Ω		direct	2404 May 26 12:08	18°  809'26	
				morning max el	2404 Jun 09 09:26	25°  804'44	24°22'31
superior conj	2403 Jul 28 03:21	5°  Ω01'35	1°36'01		2404 Jun 13 23:11	0°  II	
minimum elong	2403 Jul 28 01:26	4°  Ω51'24	1°35'52	asc. node	2404 Jul 02 09:25	0°  ☿22'30	
max. Earth dist.	2403 Jul 31 03:17	11°  Ω19'51	1.34077 AU		2404 Jul 02 05:02	0°  ☿	
evening rise	2403 Aug 04 23:08	21°  Ω05'41		morning set	2404 Jul 04 12:00	4°  ☿45'51	
	2403 Aug 09 15:33	0°  ♍					
desc. node	2403 Aug 23 13:10	23°  ♍00'21		superior conj	2404 Jul 11 11:47	19°  ☿52'03	1°22'53
	2403 Aug 28 12:22	0°  ♎		minimum elong	2404 Jul 11 09:25	19°  ☿39'15	1°22'35
evening max el	2403 Sep 08 13:48	12°  ♎51'34	27°11'28	max. Earth dist.	2404 Jul 13 06:23	23°  ☿42'21	1.33036 AU
retrograde	2403 Sep 21 22:43	20°  ♎10'02			2404 Jul 16 05:28	0°  Ω	
evening set	2403 Sep 28 21:21	17°  ♎26'44		evening rise	2404 Jul 18 19:20	5°  Ω19'09	
min. Earth dist.	2403 Oct 02 17:17	13°  ♎46'44	0.64958 AU		2404 Aug 01 06:37	0°  ♍	
inferior conj	2403 Oct 04 20:55	11°  ♎23'26	-2°29'39	desc. node	2404 Aug 09 10:10	12°  ♍17'34	
minimum elong	2403 Oct 05 00:56	11°  ♎12'14	2°28'09	evening max el	2404 Aug 21 00:37	25°  ♍59'44	27°26'12
morning rise	2403 Oct 11 05:28	5°  ♎51'11			2404 Aug 25 21:08	0°  ♎	
asc. node	2403 Oct 12 11:36	5°  ♎24'01		retrograde	2404 Sep 03 16:59	3°  ♎16'53	
direct	2403 Oct 13 21:37	5°  ♎13'17		evening set	2404 Sep 10 21:34	0°  ♎40'27	
morning max el	2403 Oct 20 09:43	8°  ♎42'15	18°04'35		2404 Sep 11 18:52	30°  ♍♍	
	2403 Nov 03 22:07	0°  ♏		min. Earth dist.	2404 Sep 14 12:49	27°  ♍32'52	0.63368 AU
morning set	2403 Nov 07 08:33	5°  ♏43'02		inferior conj	2404 Sep 17 04:50	24°  ♍52'47	-3°26'26
desc. node	2403 Nov 19 12:29	25°  ♏37'23		minimum elong	2404 Sep 17 10:04	24°  ♍39'42	3°24'50
				morning rise	2404 Sep 23 23:50	19°  ♍37'19	
superior conj	2403 Nov 21 10:33	28°  ♏41'32	-0°12'57	direct	2404 Sep 26 11:26	19°  ♍07'46	
minimum elong	2403 Nov 21 08:56	28°  ♏35'06	0°12'44	asc. node	2404 Sep 28 08:39	19°  ♍25'09	
behind sun begin	2403 Nov 21 02:14	28°  ♏08'22		morning max el	2404 Oct 03 02:00	22°  ♍33'29	17°51'37
behind sun end	2403 Nov 21 15:38	29°  ♏01'48			2404 Oct 08 20:58	0°  ♎	
	2403 Nov 22 06:16	0°  ✕		morning set	2404 Oct 19 13:23	17°  ♎59'05	
max. Earth dist.	2403 Nov 25 04:42	4°  ✕38'45	1.44922 AU		2404 Oct 26 12:10	0°  ♏	
evening rise	2403 Dec 07 19:53	24°  ✕20'28					
	2403 Dec 11 11:53	0°  ♐		superior conj	2404 Oct 31 14:55	8°  ♏35'44	0°32'12
greatest brilliancy	2403 Dec 21 08:17	14°  ♐59'42	-0.7m	minimum elong	2404 Oct 31 18:07	8°  ♏48'59	0°31'46
	2404 Jan 01 10:50	0°  ≈		desc. node	2404 Nov 05 09:30	16°  ♏24'23	
evening max el	2404 Jan 02 08:05	0°  ≈56'35	19°49'15	max. Earth dist.	2404 Nov 06 21:49	18°  ♏50'30	1.43988 AU
asc. node	2404 Jan 08 10:52	5°  ≈07'44			2404 Nov 13 23:31	0°  ✕	
retrograde	2404 Jan 09 19:54	5°  ≈18'11		evening rise	2404 Nov 16 04:36	3°  ✕25'27	
evening set	2404 Jan 13 10:29	4°  ≈02'04			2404 Dec 04 00:20	0°  ♐	
	2404 Jan 17 09:22	30°  ♐♐		evening max el	2404 Dec 15 08:53	14°  ♐27'30	20°53'27
inferior conj	2404 Jan 18 21:28	28°  ♐02'18	3°00'15	retrograde	2404 Dec 23 17:43	19°  ♐24'36	

asc. node	2404 Dec 25 07:54	19° ♁ 10'32		evening set	2405 Dec 12 01:23	1° ♁ 48'15	
evening set	2404 Dec 27 17:43	17° ♁ 53'27		asc. node	2405 Dec 12 04:55	1° ♁ 40'57	
inferior conj	2405 Jan 02 02:36	11° ♁ 42'14	2°24'58		2405 Dec 13 21:59	30° ♁	
minimum elong	2405 Jan 02 00:03	11° ♁ 50'58	2°24'10	inferior conj	2405 Dec 17 09:48	25° ♁ 28'52	1°42'19
min. Earth dist.	2405 Jan 02 13:53	11° ♁ 03'31	0.67515 AU	minimum elong	2405 Dec 17 07:42	25° ♁ 36'07	1°41'32
morning rise	2405 Jan 07 06:12	5° ♁ 29'13		min. Earth dist.	2405 Dec 17 09:34	25° ♁ 29'38	0.67839 AU
direct	2405 Jan 12 15:48	3° ♁ 06'41		morning rise	2405 Dec 22 13:54	19° ♁ 17'46	
morning max el	2405 Jan 23 12:32	9° ♁ 35'15	23°57'52	direct	2405 Dec 27 08:25	17° ♁ 17'35	
desc. node	2405 Feb 01 08:43	19° ♁ 59'32		morning max el	2406 Jan 05 23:09	22° ♁ 58'06	22°29'35
	2405 Feb 08 15:26	0° ♁			2406 Jan 12 02:21	0° ♁	
	2405 Feb 27 17:12	0° ♁		desc. node	2406 Jan 19 05:46	9° ♁ 32'44	
morning set	2405 Feb 28 03:36	0° ♁ 44'40			2406 Feb 02 00:33	0° ♁	
max. Earth dist.	2405 Mar 03 22:34	7° ♁ 22'42	1.38360 AU	morning set	2406 Feb 08 17:41	10° ♁ 42'37	
				max. Earth dist.	2406 Feb 13 19:09	19° ♁ 08'05	1.40517 AU
					2406 Feb 20 01:06	0° ♁	
superior conj	2405 Mar 11 04:25	20° ♁ 42'48	-1°42'23				
minimum elong	2405 Mar 11 08:48	21° ♁ 03'36	1°41'54	superior conj	2406 Feb 21 14:12	2° ♁ 46'13	-1°59'34
	2405 Mar 15 23:53	0° ♁		minimum elong	2406 Feb 21 17:25	3° ♁ 00'47	1°59'24
evening rise	2405 Mar 20 03:32	8° ♁ 09'01		evening rise	2406 Mar 03 15:29	21° ♁ 25'53	
asc. node	2405 Mar 23 07:11	14° ♁ 16'09			2406 Mar 08 05:47	0° ♁	
	2405 Apr 01 13:42	0° ♁		asc. node	2406 Mar 10 04:13	3° ♁ 28'34	
evening max el	2405 Apr 05 14:49	4° ♁ 46'17	18°54'46	evening max el	2406 Mar 19 20:29	17° ♁ 22'42	18°21'15
retrograde	2405 Apr 14 00:16	8° ♁ 51'14		retrograde	2406 Mar 27 03:18	20° ♁ 59'32	
evening set	2405 Apr 16 04:51	8° ♁ 35'40		evening set	2406 Mar 29 13:55	20° ♁ 36'12	
inferior conj	2405 Apr 24 05:16	4° ♁ 18'35	1°41'11	inferior conj	2406 Apr 05 19:31	15° ♁ 58'50	2°50'58
minimum elong	2405 Apr 24 08:46	4° ♁ 12'20	1°40'04	minimum elong	2406 Apr 05 23:13	15° ♁ 51'05	2°50'08
min. Earth dist.	2405 Apr 27 09:40	2° ♁ 03'19	0.56989 AU	min. Earth dist.	2406 Apr 09 06:01	13° ♁ 07'47	0.58972 AU
desc. node	2405 Apr 30 07:52	0° ♁ 14'10		morning rise	2406 Apr 13 05:49	10° ♁ 25'00	
	2405 Apr 30 18:26	30° ♁		desc. node	2406 Apr 17 04:54	8° ♁ 55'41	
morning rise	2405 May 02 09:33	29° ♁ 14'03		direct	2406 Apr 19 10:55	8° ♁ 42'10	
direct	2405 May 07 16:47	28° ♁ 06'49		morning max el	2406 May 03 19:54	16° ♁ 26'48	27°08'14
	2405 May 14 16:03	0° ♁			2406 May 14 22:31	0° ♁	
morning max el	2405 May 22 00:12	5° ♁ 32'45	25°57'02		2406 Jun 01 05:05	0° ♁	
	2405 Jun 08 19:58	0° ♁		morning set	2406 Jun 03 08:38	4° ♁ 25'36	
morning set	2405 Jun 18 23:22	19° ♁ 39'30		asc. node	2406 Jun 06 03:29	10° ♁ 20'49	
asc. node	2405 Jun 19 06:26	20° ♁ 16'55					
	2405 Jun 23 18:19	0° ♁		superior conj	2406 Jun 10 10:34	19° ♁ 44'13	0°43'59
superior conj	2405 Jun 25 22:47	4° ♁ 48'10	1°05'18	minimum elong	2406 Jun 10 08:46	19° ♁ 34'19	0°43'38
minimum elong	2405 Jun 25 20:28	4° ♁ 35'31	1°04'54	max. Earth dist.	2406 Jun 10 03:56	19° ♁ 07'44	1.32152 AU
max. Earth dist.	2405 Jun 26 15:47	6° ♁ 21'34	1.32399 AU		2406 Jun 15 03:02	0° ♁	
evening rise	2405 Jul 02 22:54	19° ♁ 53'00		evening rise	2406 Jun 17 07:18	4° ♁ 39'18	
	2405 Jul 07 23:59	0° ♁			2406 Jun 30 18:22	0° ♁	
	2405 Jul 26 16:17	0° ♁		desc. node	2406 Jul 14 04:10	18° ♁ 09'07	
desc. node	2405 Jul 27 07:10	0° ♁ 47'02		evening max el	2406 Jul 16 07:24	20° ♁ 17'56	26°18'32
evening max el	2405 Aug 03 07:20	8° ♁ 31'56	27°08'56	retrograde	2406 Jul 30 06:58	27° ♁ 29'03	
retrograde	2405 Aug 17 04:03	15° ♁ 45'45		evening set	2406 Aug 05 19:30	25° ♁ 43'57	
evening set	2405 Aug 24 06:31	13° ♁ 28'46		min. Earth dist.	2406 Aug 09 20:19	23° ♁ 08'18	0.59419 AU
min. Earth dist.	2405 Aug 27 21:36	10° ♁ 44'53	0.61479 AU	inferior conj	2406 Aug 13 03:40	20° ♁ 35'47	-4°51'25
inferior conj	2405 Aug 31 00:16	8° ♁ 00'01	-4°16'18	minimum elong	2406 Aug 13 07:00	20° ♁ 29'21	4°51'05
minimum elong	2405 Aug 31 05:35	7° ♁ 48'12	4°15'10	morning rise	2406 Aug 20 20:37	16° ♁ 03'34	
morning rise	2405 Sep 07 06:19	3° ♁ 04'55		direct	2406 Aug 23 07:21	15° ♁ 42'38	
direct	2405 Sep 09 16:10	2° ♁ 40'45		morning max el	2406 Aug 31 02:04	19° ♁ 27'46	18°22'33
asc. node	2405 Sep 15 05:40	4° ♁ 54'19		asc. node	2406 Sep 02 02:42	21° ♁ 37'51	
morning max el	2405 Sep 16 16:30	6° ♁ 11'21	17°57'13		2406 Sep 07 21:51	0° ♁	
	2405 Oct 01 22:02	0° ♁		morning set	2406 Sep 16 02:17	14° ♁ 57'08	
morning set	2405 Oct 02 13:06	1° ♁ 08'56			2406 Sep 24 00:43	0° ♁	
				superior conj	2406 Sep 25 05:39	2° ♁ 13'39	1°30'06
superior conj	2405 Oct 12 22:22	19° ♁ 49'38	1°07'06	minimum elong	2406 Sep 25 09:05	2° ♁ 29'27	1°29'48
minimum elong	2405 Oct 13 02:51	20° ♁ 09'10	1°06'34	max. Earth dist.	2406 Oct 02 18:00	15° ♁ 36'01	1.40532 AU
	2405 Oct 18 21:30	0° ♁		evening rise	2406 Oct 07 06:17	23° ♁ 12'15	
max. Earth dist.	2405 Oct 20 10:43	2° ♁ 34'19	1.42458 AU	desc. node	2406 Oct 10 03:31	27° ♁ 54'35	
desc. node	2405 Oct 23 06:31	7° ♁ 11'17			2406 Oct 11 10:50	0° ♁	
evening rise	2405 Oct 26 19:38	12° ♁ 51'35			2406 Oct 31 23:48	0° ♁	
	2405 Nov 07 00:39	0° ♁		evening max el	2406 Nov 10 18:51	11° ♁ 33'37	23°27'28
evening max el	2405 Nov 28 04:07	27° ♁ 59'30	22°07'50	retrograde	2406 Nov 21 07:48	17° ♁ 47'45	
	2405 Nov 30 07:01	0° ♁		evening set	2406 Nov 26 07:51	15° ♁ 43'28	
retrograde	2405 Dec 07 14:09	3° ♁ 35'42					

asc. node	2406 Nov 29 01:57	12°♊49'35		retrograde	2407 Nov 04 21:36	1°♊57'06	
inferior conj	2406 Dec 01 17:14	9°♊19'44	0°53'38	evening set	2407 Nov 10 11:33	29°♋36'47	
minimum elong	2406 Dec 01 16:00	9°♊23'57	0°53'08		2407 Nov 10 00:12	30°♋♋	
min. Earth dist.	2406 Dec 01 06:17	9°♊57'17	0.67814 AU	min. Earth dist.	2407 Nov 15 01:41	24°♋24'20	0.67454 AU
morning rise	2406 Dec 07 00:07	3°♊12'26		inferior conj	2407 Nov 15 23:11	23°♋13'02	0°00'11
direct	2406 Dec 11 04:18	1°♊35'05		minimum elong	2407 Nov 15 23:11	23°♋13'03	0°00'11
morning max el	2406 Dec 19 15:27	6°♊30'09	21°07'10	transit middle	2407 Nov 15 23:11	23°♋13'03	0°00'11
desc. node	2407 Jan 06 02:47	29°♊31'49		transit begin	2407 Nov 15 20:26	23°♋22'12	
	2407 Jan 06 10:26	0°♊		transit end	2407 Nov 16 01:56	23°♋03'55	
morning set	2407 Jan 19 03:42	19°♊22'30		asc. node	2407 Nov 15 22:59	23°♋13'43	
	2407 Jan 25 19:30	0°♊		morning rise	2407 Nov 21 10:56	17°♋11'47	
max. Earth dist.	2407 Jan 26 21:38	1°♊46'29	1.42499 AU	direct	2407 Nov 25 02:21	15°♋55'24	
				morning max el	2407 Dec 02 15:24	20°♋13'15	19°56'18
superior conj	2407 Feb 03 01:47	13°♋45'17	-2°05'30		2407 Dec 10 13:42	0°♋	
minimum elong	2407 Feb 03 01:18	13°♋43'15	2°05'30	desc. node	2407 Dec 23 23:51	19°♊49'56	
	2407 Feb 12 08:07	0°♋		morning set	2407 Dec 28 23:45	27°♊30'15	
evening rise	2407 Feb 14 13:29	3°♋59'49			2407 Dec 30 14:28	0°♊	
asc. node	2407 Feb 25 01:16	22°♋11'34		max. Earth dist.	2408 Jan 09 07:33	15°♊15'10	1.44047 AU
	2407 Mar 02 22:14	0°♋					
evening max el	2407 Mar 03 07:08	0°♋22'30	18°07'37	superior conj	2408 Jan 14 11:26	23°♊33'48	-1°55'07
retrograde	2407 Mar 09 22:51	3°♋46'55		minimum elong	2408 Jan 14 05:24	23°♊09'14	1°54'46
evening set	2407 Mar 12 15:06	3°♋13'57			2408 Jan 18 09:36	0°♋	
	2407 Mar 17 08:57	30°♋♋		evening rise	2408 Jan 27 17:17	15°♋43'05	
inferior conj	2407 Mar 19 05:19	28°♋16'01	3°29'01		2408 Feb 05 03:02	0°♋	
minimum elong	2407 Mar 19 07:24	28°♋10'58	3°28'48	asc. node	2408 Feb 11 22:18	10°♋16'27	
min. Earth dist.	2407 Mar 22 09:22	25°♋13'36	0.61128 AU	evening max el	2408 Feb 14 19:46	13°♋38'06	18°13'11
morning rise	2407 Mar 25 21:54	22°♋23'04		retrograde	2408 Feb 21 06:33	17°♋04'00	
direct	2407 Apr 01 16:35	20°♋05'31		evening set	2408 Feb 24 04:10	16°♋20'12	
desc. node	2407 Apr 04 01:57	20°♋21'33		inferior conj	2408 Mar 01 06:49	11°♋02'29	3°41'56
morning max el	2407 Apr 15 21:53	28°♋00'17	27°45'32	minimum elong	2408 Mar 01 06:58	11°♋02'04	3°41'56
	2407 Apr 17 20:11	0°♋		min. Earth dist.	2408 Mar 03 21:33	8°♋12'17	0.63168 AU
	2407 May 08 16:04	0°♋		morning rise	2408 Mar 07 08:48	4°♋58'52	
morning set	2407 May 18 13:59	18°♋57'30		direct	2408 Mar 14 07:21	2°♋17'03	
	2407 May 23 19:08	0°♋		desc. node	2408 Mar 20 23:01	4°♋21'58	
asc. node	2407 May 24 00:32	0°♋29'15		morning max el	2408 Mar 28 04:50	10°♋13'29	27°45'25
max. Earth dist.	2407 May 24 14:53	1°♋47'18	1.32292 AU		2408 Apr 12 16:28	0°♋	
					2408 Apr 29 23:19	0°♋	
superior conj	2407 May 25 21:26	4°♋34'06	0°19'39	morning set	2408 May 01 13:08	3°♋07'46	
minimum elong	2407 May 25 20:33	4°♋29'14	0°19'27	max. Earth dist.	2408 May 06 20:43	14°♋07'22	1.32843 AU
evening rise	2407 Jun 01 18:22	19°♋30'36					
	2407 Jun 06 21:25	0°♋		superior conj	2408 May 09 05:38	19°♋11'56	-0°07'01
	2407 Jun 26 16:55	0°♋		minimum elong	2408 May 09 05:58	19°♋13'47	0°06'57
evening max el	2407 Jun 28 00:25	1°♋18'22	25°00'17	behind sun begin	2408 May 09 01:12	18°♋48'05	
desc. node	2407 Jul 01 01:11	3°♋56'48		behind sun end	2408 May 09 10:44	19°♋39'29	
retrograde	2407 Jul 11 23:54	8°♋24'02		asc. node	2408 May 09 21:35	20°♋38'04	
evening set	2407 Jul 17 08:55	7°♋17'53			2408 May 14 05:27	0°♋	
min. Earth dist.	2407 Jul 22 11:59	4°♋31'37	0.57426 AU	evening rise	2408 May 16 06:14	4°♋20'30	
inferior conj	2407 Jul 25 11:55	2°♋31'27	-4°59'41		2408 May 30 02:32	0°♋	
minimum elong	2407 Jul 25 10:37	2°♋33'38	4°59'38	evening max el	2408 Jun 08 14:06	11°♋50'15	23°26'07
	2407 Jul 29 13:12	30°♋♋		desc. node	2408 Jun 16 22:14	17°♋35'23	
morning rise	2407 Aug 02 14:55	28°♋21'18		retrograde	2408 Jun 22 04:21	18°♋38'07	
direct	2407 Aug 05 04:49	28°♋02'01		evening set	2408 Jun 26 01:28	18°♋05'08	
	2407 Aug 11 08:15	0°♋		min. Earth dist.	2408 Jul 03 00:10	14°♋53'26	0.55838 AU
morning max el	2407 Aug 14 03:36	2°♋13'36	19°08'50	inferior conj	2408 Jul 05 00:11	13°♋42'14	-4°26'34
asc. node	2407 Aug 19 23:45	9°♋20'53		minimum elong	2408 Jul 04 17:36	13°♋52'02	4°25'24
morning set	2407 Aug 31 00:57	29°♋13'06		morning rise	2408 Jul 13 12:16	9°♋47'26	
	2407 Aug 31 10:24	0°♋		direct	2408 Jul 16 07:18	9°♋28'15	
				morning max el	2408 Jul 26 18:22	14°♋19'13	20°16'26
superior conj	2407 Sep 08 07:12	15°♋32'04	1°42'17	asc. node	2408 Aug 05 20:49	27°♋49'34	
minimum elong	2407 Sep 08 08:48	15°♋39'51	1°42'12		2408 Aug 07 02:44	0°♋	
max. Earth dist.	2407 Sep 14 21:41	27°♋54'50	1.38468 AU	morning set	2408 Aug 14 06:00	13°♋48'09	
	2407 Sep 16 01:29	0°♋					
evening rise	2407 Sep 18 17:02	4°♋40'16		superior conj	2408 Aug 21 21:52	29°♋29'36	1°45'25
desc. node	2407 Sep 27 00:33	18°♋30'34		minimum elong	2408 Aug 21 21:44	29°♋28'58	1°45'25
	2407 Oct 04 12:31	0°♋			2408 Aug 22 03:54	0°♋	
evening max el	2407 Oct 24 07:19	25°♋11'58	24°46'02	max. Earth dist.	2408 Aug 27 03:27	9°♋48'41	1.36518 AU
	2407 Oct 30 03:24	0°♋		evening rise	2408 Aug 31 01:28	17°♋09'32	

	2408 Sep 07 09:27	0°♄		desc. node	2409 Aug 30 18:34	28°♄58'33	
desc. node	2408 Sep 12 21:34	8°♄53'54			2409 Aug 31 10:54	0°♄	
	2408 Sep 27 20:58	0°♄		evening max el	2409 Sep 18 07:53	22°♄28'46	26°50'25
evening max el	2408 Oct 05 19:28	8°♄52'31	25°56'16	retrograde	2409 Oct 01 10:04	29°♄44'11	
retrograde	2408 Oct 18 06:34	15°♄57'55		evening set	2409 Oct 08 02:58	27°♄02'02	
evening set	2408 Oct 24 10:37	13°♄24'09		min. Earth dist.	2409 Oct 12 02:39	23°♄01'34	0.65723 AU
min. Earth dist.	2408 Oct 28 17:17	8°♄47'10	0.66761 AU	inferior conj	2409 Oct 13 23:04	20°♄51'58	-1°55'42
inferior conj	2408 Oct 30 01:48	7°♄04'59	-0°56'48	minimum elong	2409 Oct 14 02:11	20°♄42'50	1°54'28
minimum elong	2408 Oct 30 03:18	7°♄00'18	0°56'10	asc. node	2409 Oct 19 17:06	15°♄23'47	
asc. node	2408 Nov 01 20:02	3°♄47'51		morning rise	2409 Oct 20 02:04	15°♄11'28	
morning rise	2408 Nov 04 20:19	1°♄12'32		direct	2409 Oct 22 22:10	14°♄26'59	
direct	2408 Nov 08 00:58	0°♄13'57		morning max el	2409 Oct 29 11:42	18°♄01'03	18°20'00
morning max el	2408 Nov 14 22:44	4°♄04'53	19°00'05		2409 Nov 07 10:24	0°♄	
	2408 Dec 03 06:02	0°♄		morning set	2409 Nov 17 17:43	16°♄32'03	
morning set	2408 Dec 07 07:02	6°♄19'07			2409 Nov 26 02:34	0°♄	
desc. node	2408 Dec 09 20:53	10°♄21'03		desc. node	2409 Nov 26 17:53	1°♄00'58	
max. Earth dist.	2408 Dec 21 23:41	29°♄20'37	1.44965 AU				
	2408 Dec 22 09:41	0°♄		superior conj	2409 Dec 02 23:09	10°♄51'39	-0°41'01
superior conj	2408 Dec 23 21:39	2°♄21'43	-1°25'35	minimum elong	2409 Dec 02 17:53	10°♄30'53	0°40'19
minimum elong	2408 Dec 23 12:43	1°♄46'29	1°24'39	max. Earth dist.	2409 Dec 04 18:56	13°♄43'51	1.45152 AU
evening rise	2409 Jan 07 22:54	26°♄29'27			2409 Dec 15 04:11	0°♄	
	2409 Jan 10 02:31	0°♄		evening rise	2409 Dec 19 05:19	6°♄20'22	
evening max el	2409 Jan 28 07:37	27°♄02'49	18°37'12	greatest brilliancy	2409 Dec 30 04:05	23°♄25'08	-0.8m
asc. node	2409 Jan 28 19:20	27°♄31'51			2410 Jan 03 13:02	0°♄	
	2409 Feb 01 03:14	0°♄		evening max el	2410 Jan 11 16:18	10°♄31'19	19°18'26
retrograde	2409 Feb 03 22:12	0°♄42'23		asc. node	2410 Jan 15 16:22	13°♄43'47	
	2409 Feb 06 15:55	30°♄		retrograde	2410 Jan 18 18:23	14°♄35'09	
evening set	2409 Feb 07 01:34	29°♄46'47		evening set	2410 Jan 22 04:29	13°♄26'44	
inferior conj	2409 Feb 12 20:02	24°♄10'51	3°36'11	inferior conj	2410 Jan 27 17:31	7°♄34'41	3°16'33
minimum elong	2409 Feb 12 18:40	24°♄14'57	3°36'03	minimum elong	2410 Jan 27 15:14	7°♄42'02	3°16'06
min. Earth dist.	2409 Feb 14 19:09	21°♄49'45	0.64895 AU	min. Earth dist.	2410 Jan 29 01:29	5°♄51'39	0.66226 AU
morning rise	2409 Feb 18 11:18	18°♄01'28		morning rise	2410 Feb 02 01:45	1°♄22'19	
direct	2409 Feb 25 05:17	15°♄10'03			2410 Feb 03 20:27	30°♄	
desc. node	2409 Mar 07 20:05	20°♄22'51		direct	2410 Feb 08 09:21	28°♄34'49	
morning max el	2409 Mar 10 14:19	22°♄58'27	27°10'50		2410 Feb 13 09:30	0°♄	
	2409 Mar 16 19:58	0°♄		morning max el	2410 Feb 20 23:57	6°♄03'08	26°08'42
	2409 Apr 05 23:05	0°♄		desc. node	2410 Feb 22 17:07	7°♄50'40	
morning set	2409 Apr 15 03:14	16°♄47'29			2410 Mar 11 11:43	0°♄	
max. Earth dist.	2409 Apr 19 17:49	25°♄58'15	1.33835 AU	morning set	2410 Mar 29 04:17	29°♄44'14	
	2409 Apr 21 16:43	0°♄			2410 Mar 29 07:40	0°♄	
superior conj	2409 Apr 23 09:10	3°♄31'31	-0°34'59	max. Earth dist.	2410 Apr 02 03:32	7°♄17'07	1.35288 AU
minimum elong	2409 Apr 23 10:56	3°♄40'52	0°34'37				
asc. node	2409 Apr 26 18:38	10°♄43'16		superior conj	2410 Apr 07 05:32	17°♄24'36	-1°03'02
evening rise	2409 Apr 30 17:01	19°♄02'51		minimum elong	2410 Apr 07 08:44	17°♄40'55	1°02'27
	2409 May 06 03:19	0°♄			2410 Apr 13 07:57	0°♄	
evening max el	2409 May 21 07:33	22°♄23'45	21°51'21	asc. node	2410 Apr 13 15:40	0°♄39'55	
retrograde	2409 Jun 02 20:58	28°♄34'43		evening rise	2410 Apr 15 00:42	3°♄30'14	
desc. node	2409 Jun 03 19:15	28°♄32'45			2410 Apr 30 08:32	0°♄	
evening set	2409 Jun 05 11:58	28°♄19'18		evening max el	2410 May 03 10:52	3°♄24'43	20°28'12
inferior conj	2409 Jun 14 21:26	24°♄15'55	-3°05'01	retrograde	2410 May 14 10:11	8°♄44'40	
minimum elong	2409 Jun 14 13:43	24°♄26'44	3°02'40	evening set	2410 May 16 11:22	8°♄34'16	
min. Earth dist.	2409 Jun 14 11:36	24°♄29'41	0.54981 AU	desc. node	2410 May 21 16:18	6°♄47'06	
morning rise	2409 Jun 23 16:46	20°♄22'31		inferior conj	2410 May 25 15:44	4°♄36'19	-1°09'48
direct	2409 Jun 26 19:53	20°♄00'54		minimum elong	2410 May 25 12:26	4°♄41'07	1°08'35
morning max el	2409 Jul 08 21:37	25°♄40'44	21°43'28	min. Earth dist.	2410 May 27 00:04	3°♄49'25	0.55055 AU
	2409 Jul 12 22:22	0°♄		morning rise	2410 Jun 03 12:32	0°♄24'24	
asc. node	2409 Jul 23 17:53	16°♄53'02			2410 Jun 05 15:32	30°♄	
morning set	2409 Jul 29 15:08	28°♄36'09		direct	2410 Jun 07 06:11	29°♄54'18	
	2409 Jul 30 07:13	0°♄			2410 Jun 08 20:33	0°♄	
superior conj	2409 Aug 05 21:44	13°♄55'04	1°41'13	morning max el	2410 Jun 20 15:46	6°♄24'17	23°23'37
minimum elong	2409 Aug 05 20:19	13°♄47'41	1°41'09		2410 Jul 07 07:47	0°♄	
max. Earth dist.	2409 Aug 09 16:39	21°♄43'19	1.34865 AU	asc. node	2410 Jul 10 14:55	6°♄21'39	
	2409 Aug 13 21:12	0°♄		morning set	2410 Jul 14 02:27	13°♄30'41	
evening rise	2409 Aug 14 03:11	0°♄28'42		superior conj	2410 Jul 21 03:44	28°♄38'35	1°31'02
				minimum elong	2410 Jul 21 01:34	28°♄26'58	1°30'49
					2410 Jul 21 18:56	0°♄	

max. Earth dist.	2410 Jul 23 14:52	3°♎53'38	1.33588 AU	superior conj	2411 Jul 05 13:31	13°♊32'26	1°15'55
evening rise	2410 Jul 28 17:40	14°♎25'04		minimum elong	2411 Jul 05 11:07	13°♊19'21	1°15'34
	2410 Aug 06 00:42	0°♎		max. Earth dist.	2411 Jul 06 20:53	16°♊23'21	1.32716 AU
desc. node	2410 Aug 17 15:35	18°♎36'11		evening rise	2411 Jul 12 17:21	28°♊48'08	
	2410 Aug 26 08:21	0°♏			2411 Jul 13 07:24	0°♎	
evening max el	2410 Aug 31 19:36	5°♏49'52	27°21'17		2411 Jul 30 04:38	0°♎	
retrograde	2410 Sep 14 07:51	13°♏08'07		desc. node	2411 Aug 04 12:36	7°♎35'12	
evening set	2410 Sep 21 10:01	10°♏26'01		evening max el	2411 Aug 14 04:45	18°♎43'21	27°22'50
min. Earth dist.	2410 Sep 25 03:33	7°♏00'51	0.64325 AU	retrograde	2411 Aug 27 23:25	25°♎59'59	
inferior conj	2410 Sep 27 12:36	4°♏29'10	-2°54'15	evening set	2411 Sep 04 04:17	23°♎29'53	
minimum elong	2410 Sep 27 17:14	4°♏16'51	2°52'39	min. Earth dist.	2411 Sep 07 18:29	20°♎34'01	0.62592 AU
	2410 Oct 02 09:25	30°♎		inferior conj	2411 Sep 10 15:35	17°♎49'47	-3°48'53
morning rise	2410 Oct 04 01:31	29°♎03'55		minimum elong	2411 Sep 10 21:03	17°♎36'46	3°47'24
direct	2410 Oct 06 15:27	28°♎29'56		morning rise	2411 Sep 17 15:19	12°♎42'55	
asc. node	2410 Oct 06 14:08	28°♎29'57		direct	2411 Sep 20 01:43	12°♎16'07	
	2410 Oct 10 20:57	0°♏		asc. node	2411 Sep 23 11:11	13°♎09'43	
morning max el	2410 Oct 13 03:40	1°♏56'12	17°56'57	morning max el	2411 Sep 26 19:38	15°♎42'57	17°51'42
morning set	2410 Oct 30 08:41	28°♏07'54			2411 Oct 06 19:03	0°♏	
	2410 Oct 31 11:07	0°♐		morning set	2411 Oct 12 22:16	10°♏48'31	
					2411 Oct 23 21:47	0°♐	
superior conj	2410 Nov 12 13:30	20°♐04'03	0°07'11	superior conj	2411 Oct 24 05:26	0°♐32'23	0°48'28
minimum elong	2410 Nov 12 14:20	20°♐07'25	0°07'05	minimum elong	2411 Oct 24 09:34	0°♐49'53	0°47'55
behind sun begin	2410 Nov 12 05:03	19°♐29'50		max. Earth dist.	2411 Oct 31 04:40	12°♐04'28	1.43389 AU
behind sun end	2410 Nov 12 23:37	20°♐44'55		desc. node	2411 Oct 31 11:53	12°♐33'41	
desc. node	2410 Nov 13 14:53	21°♐46'24		evening rise	2411 Nov 08 03:19	24°♐40'13	
max. Earth dist.	2410 Nov 17 13:35	28°♐04'36	1.44599 AU		2411 Nov 11 14:17	0°♏	
	2410 Nov 18 18:45	0°♏			2411 Dec 02 09:04	0°♏	
evening rise	2410 Nov 28 18:07	15°♏32'13		evening max el	2411 Dec 08 18:24	7°♏31'55	21°24'11
	2410 Dec 08 05:52	0°♏		retrograde	2411 Dec 17 13:51	12°♏46'05	
greatest brilliancy	2410 Dec 12 10:28	6°♏15'22	-0.6m	asc. node	2411 Dec 20 10:27	12°♏00'59	
evening max el	2410 Dec 25 20:09	24°♏01'20	20°15'03	evening set	2411 Dec 21 18:17	11°♏08'18	
retrograde	2411 Jan 02 16:20	28°♏37'47		inferior conj	2411 Dec 27 02:46	4°♏53'03	2°07'41
asc. node	2411 Jan 02 13:24	28°♏37'42		minimum elong	2411 Dec 27 00:22	5°♏01'22	2°06'53
evening set	2411 Jan 06 10:42	27°♏15'21		min. Earth dist.	2411 Dec 27 09:03	4°♏31'17	0.67688 AU
inferior conj	2411 Jan 11 20:32	21°♏10'04	2°46'19		2411 Dec 30 22:02	30°♎	
minimum elong	2411 Jan 11 17:56	21°♏18'51	2°45'36	morning rise	2412 Jan 01 06:15	28°♏40'22	
min. Earth dist.	2411 Jan 12 14:55	20°♏07'57	0.67149 AU	direct	2412 Jan 06 09:22	26°♏27'00	
morning rise	2411 Jan 17 00:59	14°♏56'36			2412 Jan 13 22:10	0°♏	
direct	2411 Jan 22 18:56	12°♏23'05		morning max el	2412 Jan 16 17:32	2°♏36'10	23°20'03
morning max el	2411 Feb 03 08:40	19°♏17'33	24°48'21	desc. node	2412 Jan 27 11:09	15°♏34'00	
desc. node	2411 Feb 09 14:08	26°♏20'29			2412 Feb 06 13:39	0°♏	
	2411 Feb 12 11:11	0°♏		morning set	2412 Feb 20 17:41	22°♏29'45	
	2411 Mar 04 14:38	0°♏		max. Earth dist.	2412 Feb 24 21:21	29°♏36'14	1.39273 AU
morning set	2411 Mar 11 11:12	11°♏44'06			2412 Feb 25 02:48	0°♏	
max. Earth dist.	2411 Mar 15 02:48	18°♏19'18	1.37151 AU				
	2411 Mar 21 06:50	0°♏		superior conj	2412 Mar 03 11:46	13°♏17'21	-1°50'44
superior conj	2411 Mar 21 15:44	0°♏43'23	-1°29'12	minimum elong	2412 Mar 03 15:55	13°♏36'39	1°50'23
minimum elong	2411 Mar 21 19:58	1°♏04'03	1°28'37		2412 Mar 12 06:04	0°♏	
evening rise	2411 Mar 30 03:01	17°♏36'11		evening rise	2412 Mar 12 21:07	1°♏12'44	
asc. node	2411 Mar 31 12:42	20°♏23'45		asc. node	2412 Mar 17 09:45	9°♏49'18	
	2411 Apr 05 13:26	0°♏		evening max el	2412 Mar 29 03:27	27°♏24'39	18°38'09
evening max el	2411 Apr 16 02:05	15°♏05'48	19°23'08		2412 Apr 01 12:14	0°♏	
retrograde	2411 Apr 25 08:26	19°♏34'51		retrograde	2412 Apr 06 00:10	1°♏15'27	
evening set	2411 Apr 27 09:44	19°♏22'35		evening set	2412 Apr 08 07:16	0°♏56'57	
inferior conj	2411 May 05 21:34	15°♏15'26	0°45'41		2412 Apr 10 18:06	30°♎	
minimum elong	2411 May 05 23:27	15°♏12'22	0°45'01	inferior conj	2412 Apr 15 23:25	26°♏31'54	2°14'53
min. Earth dist.	2411 May 08 14:44	13°♏29'18	0.56063 AU	minimum elong	2412 Apr 16 03:21	26°♏24'24	2°13'47
desc. node	2411 May 08 13:20	13°♏31'32		min. Earth dist.	2412 Apr 19 08:31	23°♏58'24	0.57787 AU
morning rise	2411 May 14 10:15	10°♏30'18		morning rise	2412 Apr 23 20:18	21°♏13'37	
direct	2411 May 19 02:43	9°♏40'13		desc. node	2412 Apr 24 10:20	20°♏57'55	
morning max el	2411 Jun 02 06:12	16°♏50'46	25°04'34	direct	2412 Apr 29 13:43	19°♏51'29	
	2411 Jun 12 23:22	0°♐		morning max el	2412 May 13 22:36	27°♏27'25	26°30'50
asc. node	2411 Jun 27 11:57	26°♐08'28			2412 May 16 09:41	0°♏	
morning set	2411 Jun 28 14:15	28°♐26'22			2412 Jun 05 09:20	0°♐	
	2411 Jun 29 07:54	0°♐		morning set	2412 Jun 12 00:58	13°♐18'03	
				asc. node	2412 Jun 13 09:00	16°♐07'58	

superior conj	2412 Jun 19 01:07	28°♊30'08	0°56'42	superior conj	2413 Jun 03 12:43	13°♊24'38	0°34'02
minimum elong	2412 Jun 18 22:58	28°♊18'21	0°56'17	minimum elong	2413 Jun 03 11:16	13°♊16'37	0°33'42
max. Earth dist.	2412 Jun 19 07:47	29°♊06'54	1.32245 AU	evening rise	2413 Jun 10 09:06	28°♊18'54	
	2412 Jun 19 17:26	0°♋			2413 Jun 11 04:17	0°♋	
evening rise	2412 Jun 25 23:18	13°♋29'03			2413 Jun 27 23:20	0°♌	
	2412 Jul 04 09:11	0°♌		desc. node	2413 Jul 08 06:41	12°♌26'08	
desc. node	2412 Jul 21 09:38	25°♌39'42		evening max el	2413 Jul 08 06:15	12°♌25'07	25°48'11
	2412 Jul 25 09:11	0°♍		retrograde	2413 Jul 22 06:16	19°♌33'47	
evening max el	2412 Jul 26 09:01	0°♍57'58	26°51'27	evening set	2413 Jul 28 08:40	18°♌05'21	
retrograde	2412 Aug 09 07:33	8°♍10'59		min. Earth dist.	2413 Aug 01 18:34	15°♌27'17	0.58552 AU
evening set	2412 Aug 16 05:27	6°♍06'25		inferior conj	2413 Aug 05 00:24	13°♌06'28	-4°59'03
min. Earth dist.	2412 Aug 19 23:09	3°♍27'55	0.60609 AU	minimum elong	2413 Aug 05 02:03	13°♌03'27	4°58'59
inferior conj	2412 Aug 23 04:45	0°♍45'57	-4°33'40	morning rise	2413 Aug 12 21:42	8°♌43'36	
minimum elong	2412 Aug 23 09:32	0°♍35'54	4°32'51	direct	2413 Aug 15 09:38	8°♌23'25	
	2412 Aug 24 02:50	30°♎♌		morning max el	2413 Aug 23 14:58	12°♌18'21	18°39'30
morning rise	2412 Aug 30 15:30	26°♌00'15		asc. node	2413 Aug 27 05:16	16°♌23'51	
direct	2412 Sep 02 01:14	25°♌37'48			2413 Sep 04 13:35	0°♍	
asc. node	2412 Sep 09 08:13	29°♌13'03		morning set	2413 Sep 08 22:05	8°♍18'52	
morning max el	2412 Sep 09 08:30	29°♌13'43	18°05'26				
	2412 Sep 10 02:45	0°♍		superior conj	2413 Sep 17 15:29	25°♍07'40	1°36'29
morning set	2412 Sep 25 04:23	24°♍17'06		minimum elong	2413 Sep 17 18:10	25°♍20'19	1°36'17
	2412 Sep 28 05:56	0°♎			2413 Sep 20 06:24	0°♎	
				max. Earth dist.	2413 Sep 24 20:35	8°♎14'59	1.39667 AU
superior conj	2412 Oct 04 23:44	12°♎18'29	1°18'17	evening rise	2413 Sep 28 22:41	15°♎17'19	
minimum elong	2412 Oct 05 03:58	12°♎37'18	1°17'49	desc. node	2413 Oct 04 05:59	24°♎01'03	
max. Earth dist.	2412 Oct 12 14:52	25°♎30'38	1.41676 AU		2413 Oct 08 01:02	0°♏	
	2412 Oct 15 07:49	0°♏			2413 Oct 29 17:25	0°♏	
desc. node	2412 Oct 17 08:56	3°♏20'00		evening max el	2413 Nov 03 01:19	4°♏41'47	24°01'25
evening rise	2412 Oct 18 01:44	4°♏27'41		retrograde	2413 Nov 14 01:11	11°♏09'22	
	2412 Nov 03 21:58	0°♏		evening set	2413 Nov 19 07:07	8°♏58'08	
evening max el	2412 Nov 20 11:37	21°♏05'05	22°41'28	asc. node	2413 Nov 23 04:30	4°♏37'48	
retrograde	2412 Nov 30 09:10	26°♏57'46		min. Earth dist.	2413 Nov 24 01:56	3°♏26'15	0.67710 AU
evening set	2412 Dec 05 01:37	25°♏03'25		inferior conj	2413 Nov 24 17:20	2°♏34'07	0°31'29
asc. node	2412 Dec 06 07:29	23°♏53'51		minimum elong	2413 Nov 24 16:35	2°♏36'40	0°31'10
inferior conj	2412 Dec 10 10:18	18°♏41'52	1°22'19		2413 Nov 26 16:06	30°♎♏	
minimum elong	2412 Dec 10 08:32	18°♏48'00	1°21'38	morning rise	2413 Nov 30 02:03	26°♏29'14	
min. Earth dist.	2412 Dec 10 05:33	18°♏58'18	0.67872 AU	direct	2413 Dec 04 00:42	25°♏00'59	
morning rise	2412 Dec 15 15:18	12°♏31'57		morning max el	2413 Dec 12 01:24	29°♏38'25	20°35'21
direct	2412 Dec 20 03:40	10°♏41'19			2413 Dec 12 09:53	0°♏	
morning max el	2412 Dec 29 05:59	16°♏01'41	21°53'18	desc. node	2413 Dec 31 05:14	25°♏27'24	
	2413 Jan 09 13:32	0°♐			2414 Jan 03 05:37	0°♐	
desc. node	2413 Jan 13 08:11	5°♐19'12		morning set	2414 Jan 09 20:28	10°♐09'13	
	2413 Jan 29 15:14	0°♑		max. Earth dist.	2414 Jan 19 01:53	24°♐45'11	1.43227 AU
morning set	2413 Jan 30 19:06	1°♑51'16			2414 Jan 22 07:13	0°♑	
max. Earth dist.	2413 Feb 05 19:35	11°♑41'35	1.41398 AU				
				superior conj	2414 Jan 25 13:34	5°♑24'22	-2°03'22
superior conj	2413 Feb 13 12:44	24°♑54'46	-2°03'46	minimum elong	2414 Jan 25 10:47	5°♑12'44	2°03'17
minimum elong	2413 Feb 13 14:43	25°♑03'33	2°03'43	evening rise	2414 Feb 06 18:23	26°♑25'23	
	2413 Feb 16 09:24	0°♒			2414 Feb 08 19:04	0°♒	
evening rise	2413 Feb 24 03:35	14°♒11'48		asc. node	2414 Feb 19 03:50	17°♒18'11	
asc. node	2413 Mar 04 06:47	28°♒50'02		evening max el	2414 Feb 23 23:34	23°♒19'54	18°07'42
	2413 Mar 04 23:34	0°♓		retrograde	2414 Mar 02 11:54	26°♒43'20	
evening max el	2413 Mar 12 11:42	10°♓12'20	18°13'10	evening set	2414 Mar 05 06:32	26°♒05'44	
retrograde	2413 Mar 19 10:31	13°♓41'40		inferior conj	2414 Mar 11 15:19	20°♒58'56	3°37'11
evening set	2413 Mar 21 23:46	13°♓14'16		minimum elong	2414 Mar 11 16:34	20°♒55'45	3°37'06
inferior conj	2413 Mar 28 22:20	8°♓28'12	3°10'37	min. Earth dist.	2414 Mar 14 14:05	17°♒59'30	0.62019 AU
minimum elong	2413 Mar 29 01:28	8°♓21'12	3°10'04	morning rise	2414 Mar 18 01:14	15°♒00'47	
min. Earth dist.	2413 Apr 01 07:23	5°♓29'18	0.59887 AU	direct	2414 Mar 24 22:39	12°♒31'39	
morning rise	2413 Apr 05 00:53	2°♓45'25		desc. node	2414 Mar 29 04:25	13°♒22'20	
desc. node	2413 Apr 11 07:23	0°♓47'06		morning max el	2414 Apr 08 01:04	20°♒27'25	27°50'12
direct	2413 Apr 11 13:11	0°♓46'56			2414 Apr 16 06:16	0°♓	
morning max el	2413 Apr 25 20:41	8°♓36'18	27°28'39		2414 May 05 03:21	0°♔	
	2413 May 12 04:16	0°♔		morning set	2414 May 11 11:50	12°♔22'53	
morning set	2413 May 27 08:48	27°♔59'02		max. Earth dist.	2414 May 17 05:26	24°♔26'31	1.32476 AU
	2413 May 28 07:56	0°♕		asc. node	2414 May 18 03:07	26°♔23'53	
asc. node	2413 May 31 06:02	6°♕14'31					
max. Earth dist.	2413 Jun 02 19:56	11°♕52'24	1.32164 AU	superior conj	2414 May 18 22:40	28°♔10'10	0°08'36

minimum elong	2414 May 18 22:16	28° ♁ 07'59	0°08'31		2415 Apr 27 03:15	0° ♁	
behind sun begin	2414 May 18 17:54	27° ♁ 44'10		max. Earth dist.	2415 Apr 30 08:02	6° ♁ 35'08	1.33206 AU
behind sun end	2414 May 19 02:38	28° ♁ 31'48					
	2414 May 19 18:49	0° ♁		superior conj	2415 May 03 05:05	12° ♁ 40'25	-0°18'48
evening rise	2414 May 25 20:45	13° ♁ 10'46		minimum elong	2415 May 03 06:01	12° ♁ 45'25	0°18'35
	2414 Jun 03 08:27	0° ♁		asc. node	2415 May 05 00:11	16° ♁ 31'26	
evening max el	2414 Jun 19 21:06	23° ♁ 10'22	24°21'15	evening rise	2415 May 10 08:20	27° ♁ 57'41	
desc. node	2414 Jun 25 03:41	27° ♁ 23'49			2415 May 11 07:39	0° ♁	
	2414 Jul 01 15:18	0° ♁			2415 May 29 02:25	0° ♁	
retrograde	2414 Jul 03 17:45	0° ♁ 10'11		evening max el	2415 Jun 01 11:09	3° ♁ 37'46	22°45'02
	2414 Jul 05 20:27	30° ♁		desc. node	2415 Jun 12 00:41	9° ♁ 56'47	
evening set	2414 Jul 08 12:13	29° ♁ 19'22		retrograde	2415 Jun 14 17:05	10° ♁ 13'16	
min. Earth dist.	2414 Jul 14 07:56	26° ♁ 24'06	0.56690 AU	evening set	2415 Jun 17 23:47	9° ♁ 49'38	
inferior conj	2414 Jul 16 23:59	24° ♁ 43'05	-4°51'26	min. Earth dist.	2415 Jun 25 19:25	6° ♁ 23'25	0.55362 AU
minimum elong	2414 Jul 16 20:16	24° ♁ 48'59	4°51'05	inferior conj	2415 Jun 27 04:43	5° ♁ 35'42	-3°57'43
morning rise	2414 Jul 25 07:00	20° ♁ 40'54		minimum elong	2415 Jun 26 20:53	5° ♁ 46'57	3°55'50
direct	2414 Jul 27 23:04	20° ♁ 21'45		morning rise	2415 Jul 05 20:18	1° ♁ 43'59	
morning max el	2414 Aug 06 12:07	24° ♁ 47'54	19°34'57	direct	2415 Jul 08 17:59	1° ♁ 24'26	
	2414 Aug 11 01:20	0° ♁		morning max el	2415 Jul 19 22:00	6° ♁ 35'14	20°51'25
asc. node	2414 Aug 14 02:19	4° ♁ 27'47		asc. node	2415 Jul 31 23:23	23° ♁ 12'33	
morning set	2414 Aug 23 23:46	22° ♁ 44'02			2415 Aug 04 14:17	0° ♁	
	2414 Aug 27 14:11	0° ♁		morning set	2415 Aug 08 06:48	7° ♁ 25'38	
superior conj	2414 Aug 31 23:09	8° ♁ 44'32	1°44'36	superior conj	2415 Aug 15 18:11	22° ♁ 55'55	1°44'26
minimum elong	2414 Aug 31 23:59	8° ♁ 48'39	1°44'35	minimum elong	2415 Aug 15 17:27	22° ♁ 52'10	1°44'26
max. Earth dist.	2414 Sep 07 00:45	20° ♁ 21'51	1.37619 AU		2415 Aug 19 06:06	0° ♁	
evening rise	2414 Sep 10 19:05	27° ♁ 12'20		max. Earth dist.	2415 Aug 20 08:55	2° ♁ 12'29	1.35767 AU
	2414 Sep 12 09:07	0° ♁		evening rise	2415 Aug 24 11:26	10° ♁ 04'42	
desc. node	2414 Sep 21 03:01	14° ♁ 32'28			2415 Sep 04 22:38	0° ♁	
	2414 Oct 01 12:06	0° ♁		desc. node	2415 Sep 08 00:01	4° ♁ 49'09	
evening max el	2414 Oct 16 13:23	18° ♁ 21'14	25°17'17		2415 Sep 27 01:30	0° ♁	
retrograde	2414 Oct 28 12:55	25° ♁ 16'09		evening max el	2415 Sep 29 01:27	2° ♁ 00'55	26°21'37
evening set	2414 Nov 03 09:05	22° ♁ 49'22		retrograde	2415 Oct 11 19:50	9° ♁ 12'34	
min. Earth dist.	2414 Nov 07 19:54	17° ♁ 52'07	0.67207 AU	evening set	2415 Oct 18 05:37	6° ♁ 34'09	
inferior conj	2414 Nov 08 22:05	16° ♁ 27'06	-0°23'39	min. Earth dist.	2415 Oct 22 09:08	2° ♁ 12'46	0.66362 AU
minimum elong	2414 Nov 08 22:41	16° ♁ 25'09	0°23'24	inferior conj	2415 Oct 23 22:42	0° ♁ 18'04	-1°21'39
asc. node	2414 Nov 10 01:33	14° ♁ 59'00		minimum elong	2415 Oct 24 00:53	0° ♁ 11'25	1°20'45
morning rise	2414 Nov 14 12:31	10° ♁ 29'33			2415 Oct 24 04:37	30° ♁	
direct	2414 Nov 17 23:05	9° ♁ 21'17		asc. node	2415 Oct 27 22:35	25° ♁ 54'51	
morning max el	2414 Nov 25 04:44	13° ♁ 26'07	19°30'29	morning rise	2415 Oct 29 20:39	24° ♁ 30'29	
	2414 Dec 07 16:41	0° ♁		direct	2415 Nov 01 21:17	23° ♁ 38'33	
greatest brilliancy	2414 Dec 08 12:38	1° ♁ 14'36	-0.7m	morning max el	2415 Nov 08 14:52	27° ♁ 21'24	18°40'58
desc. node	2414 Dec 18 02:16	15° ♁ 51'44			2415 Nov 10 23:47	0° ♁	
morning set	2414 Dec 19 18:19	18° ♁ 26'28		morning set	2415 Nov 29 12:18	27° ♁ 49'18	
	2414 Dec 27 04:39	0° ♁			2415 Nov 30 21:17	0° ♁	
max. Earth dist.	2415 Jan 01 15:07	8° ♁ 33'07	1.44521 AU	desc. node	2415 Dec 04 23:18	6° ♁ 27'31	
superior conj	2415 Jan 05 12:12	14° ♁ 34'38	-1°44'52	superior conj	2415 Dec 15 16:17	23° ♁ 17'40	-1°07'56
minimum elong	2415 Jan 05 04:14	14° ♁ 11'45	1°44'14	minimum elong	2415 Dec 15 08:10	22° ♁ 45'49	1°06'59
	2415 Jan 14 21:26	0° ♁		max. Earth dist.	2415 Dec 15 08:33	22° ♁ 47'16	1.45134 AU
evening rise	2415 Jan 19 13:10	7° ♁ 45'17			2415 Dec 19 22:39	0° ♁	
	2415 Feb 02 05:18	0° ♁		evening rise	2415 Dec 31 08:48	18° ♁ 07'38	
asc. node	2415 Feb 06 00:53	5° ♁ 03'28			2416 Jan 07 18:50	0° ♁	
evening max el	2415 Feb 07 12:04	6° ♁ 39'31	18°21'09	greatest brilliancy	2416 Jan 08 03:25	0° ♁ 34'08	-0.9m
retrograde	2415 Feb 13 23:35	10° ♁ 10'14		evening max el	2416 Jan 21 22:47	20° ♁ 06'17	18°52'40
evening set	2415 Feb 16 23:29	9° ♁ 21'35		asc. node	2416 Jan 23 21:54	21° ♁ 53'47	
inferior conj	2415 Feb 22 22:15	3° ♁ 55'40	3°41'28	retrograde	2416 Jan 28 17:33	23° ♁ 55'18	
minimum elong	2415 Feb 22 21:41	3° ♁ 57'16	3°41'26	evening set	2416 Jan 31 23:31	22° ♁ 54'35	
min. Earth dist.	2415 Feb 25 06:20	1° ♁ 16'18	0.63941 AU	inferior conj	2416 Feb 06 15:23	17° ♁ 11'35	3°29'18
	2415 Feb 26 10:47	30° ♁		minimum elong	2416 Feb 06 13:33	17° ♁ 17'15	3°29'02
morning rise	2415 Feb 28 19:10	27° ♁ 48'52		min. Earth dist.	2416 Feb 08 08:00	15° ♁ 05'38	0.65513 AU
direct	2415 Mar 07 16:27	25° ♁ 01'22		morning rise	2416 Feb 12 03:12	11° ♁ 00'24	
desc. node	2415 Mar 16 01:28	28° ♁ 18'07		direct	2416 Feb 18 17:18	8° ♁ 08'52	
	2415 Mar 18 05:32	0° ♁		desc. node	2416 Mar 01 22:31	14° ♁ 59'29	
morning max el	2415 Mar 21 09:39	2° ♁ 56'10	27°34'43	morning max el	2416 Mar 02 19:29	15° ♁ 51'15	26°47'08
	2415 Apr 10 14:55	0° ♁			2416 Mar 14 11:46	0° ♁	
morning set	2415 Apr 25 07:31	26° ♁ 21'08			2416 Apr 02 10:06	0° ♁	

morning set	2416 Apr 07 16:33	9° Υ 44'00		morning set	2417 Mar 21 10:37	22° X 18'50	
max. Earth dist.	2416 Apr 12 00:09	18° Υ 10'16	1.34393 AU	max. Earth dist.	2417 Mar 25 04:41	29° X 17'49	1.36034 AU
					2417 Mar 25 13:33	0° Υ	
superior conj	2416 Apr 16 05:51	26° Υ 49'16	-0°47'00	superior conj	2417 Mar 30 22:22	10° Υ 29'34	-1°14'30
minimum elong	2416 Apr 16 08:16	27° Υ 01'45	0°46'31	minimum elong	2417 Mar 31 02:05	10° Υ 48'13	1°13'54
	2416 Apr 17 18:26	0° Z		evening rise	2417 Apr 07 23:44	26° Υ 53'17	
asc. node	2416 Apr 20 21:13	6° Z 33'15		asc. node	2417 Apr 07 18:14	26° Υ 25'23	
evening rise	2416 Apr 23 18:01	12° Z 33'50			2417 Apr 09 12:42	0° Z	
	2416 May 02 18:53	0° II		evening max el	2417 Apr 25 16:51	25° Z 38'53	19°58'12
evening max el	2416 May 13 08:14	14° II 20'08	21°14'05		2417 May 02 08:17	0° II	
retrograde	2416 May 25 06:57	20° II 10'26		retrograde	2417 May 05 22:05	0° II 35'36	
evening set	2416 May 27 13:35	19° II 58'28		evening set	2417 May 07 22:16	0° II 24'59	
desc. node	2416 May 28 21:43	19° II 40'50			2417 May 09 15:38	30° R Z	
inferior conj	2416 Jun 05 22:49	15° II 59'41	-2°18'28	desc. node	2417 May 15 18:45	27° Z 03'45	
minimum elong	2416 Jun 05 16:30	16° II 08'34	2°16'19	inferior conj	2417 May 16 20:32	26° Z 25'01	-0°18'50
min. Earth dist.	2416 Jun 06 07:28	15° II 47'31	0.54882 AU	minimum elong	2417 May 16 19:40	26° Z 26'20	0°18'32
morning rise	2416 Jun 14 19:41	12° II 00'24		min. Earth dist.	2417 May 18 20:48	25° Z 12'07	0.55377 AU
direct	2416 Jun 18 03:50	11° II 36'13		morning rise	2417 May 25 15:04	22° Z 00'07	
morning max el	2416 Jun 30 20:54	17° II 38'54	22°25'11	direct	2417 May 29 17:59	21° Z 22'50	
	2416 Jul 10 17:53	0° Z		morning max el	2417 Jun 12 12:32	28° Z 11'45	24°07'22
asc. node	2416 Jul 17 20:26	12° Z 27'32			2417 Jun 14 07:53	0° II	
morning set	2416 Jul 22 17:03	22° Z 16'48			2417 Jul 03 16:43	0° Z	
	2416 Jul 26 08:27	0° Ω		asc. node	2417 Jul 04 17:29	2° Z 04'59	
				morning set	2417 Jul 07 04:46	7° Z 12'39	
superior conj	2416 Jul 29 20:58	7° Ω 30'09	1°37'34				
minimum elong	2416 Jul 29 19:10	7° Ω 20'37	1°37'26	superior conj	2417 Jul 14 04:50	22° Z 19'02	1°25'11
max. Earth dist.	2416 Aug 02 01:39	14° Ω 11'22	1.34264 AU	minimum elong	2417 Jul 14 02:31	22° Z 06'26	1°24'54
evening rise	2416 Aug 06 19:03	23° Ω 41'21		max. Earth dist.	2417 Jul 16 03:36	26° Z 31'01	1.33168 AU
	2416 Aug 10 02:23	0° II			2417 Jul 17 18:53	0° Ω	
desc. node	2416 Aug 24 21:01	24° II 43'42		evening rise	2417 Jul 21 13:53	7° Ω 50'47	
	2416 Aug 28 12:57	0° Ω			2417 Aug 02 13:38	0° II	
evening max el	2416 Sep 10 13:45	15° Ω 32'41	27°06'52	desc. node	2417 Aug 11 18:02	14° II 06'39	
retrograde	2416 Sep 23 21:10	22° Ω 50'34		evening max el	2417 Aug 24 00:56	28° II 44'42	27°25'55
evening set	2416 Sep 30 18:23	20° Ω 07'23			2417 Aug 25 09:47	0° Ω	
min. Earth dist.	2416 Oct 04 15:18	16° Ω 22'02	0.65168 AU	retrograde	2417 Sep 06 16:15	6° Ω 01'54	
inferior conj	2416 Oct 06 17:00	14° Ω 02'09	-2°20'45	evening set	2417 Sep 13 20:27	3° Ω 23'43	
minimum elong	2416 Oct 06 20:48	13° Ω 51'26	2°19'18	min. Earth dist.	2417 Sep 17 12:14	0° Ω 11'46	0.63628 AU
morning rise	2416 Oct 13 00:04	8° Ω 27'31			2417 Sep 17 16:59	30° R II	
asc. node	2416 Oct 13 19:38	8° Ω 07'27		inferior conj	2417 Sep 20 02:27	27° II 33'39	-3°18'11
direct	2416 Oct 15 17:09	7° Ω 48'02		minimum elong	2417 Sep 20 07:33	27° II 20'39	3°16'33
morning max el	2416 Oct 22 05:25	11° Ω 18'06	18°07'59	morning rise	2417 Sep 26 19:51	22° II 15'28	
	2416 Nov 04 05:38	0° III		direct	2417 Sep 29 08:01	21° II 44'49	
morning set	2416 Nov 09 11:32	8° III 39'28		asc. node	2417 Sep 30 16:40	21° II 54'01	
desc. node	2416 Nov 20 20:18	27° III 10'17		morning max el	2417 Oct 05 21:40	25° II 10'18	17°52'25
	2416 Nov 22 14:48	0° X			2417 Oct 09 21:36	0° Ω	
superior conj	2416 Nov 23 20:53	1° X 59'35	-0°20'18	morning set	2417 Oct 22 12:58	20° Ω 45'48	
minimum elong	2416 Nov 23 18:19	1° X 49'21	0°19'56		2417 Oct 27 21:43	0° III	
max. Earth dist.	2416 Nov 27 03:31	7° X 10'23	1.45010 AU	superior conj	2417 Nov 03 21:19	11° III 42'07	0°25'56
evening rise	2416 Dec 10 06:26	27° X 38'30		minimum elong	2417 Nov 04 00:01	11° III 53'13	0°25'34
	2416 Dec 11 18:58	0° Z		desc. node	2417 Nov 07 17:19	17° III 56'58	
greatest brilliancy	2416 Dec 23 04:32	17° Z 28'48	-0.7m	max. Earth dist.	2417 Nov 09 21:17	21° III 25'42	1.44169 AU
	2417 Jan 01 02:17	0° \approx			2417 Nov 15 07:29	0° X	
evening max el	2417 Jan 04 05:38	3° \approx 36'09	19°40'50	evening rise	2417 Nov 19 15:40	6° X 44'06	
asc. node	2417 Jan 09 18:55	7° \approx 34'30			2417 Dec 05 03:40	0° Z	
retrograde	2417 Jan 11 14:42	7° \approx 52'44		evening max el	2417 Dec 18 07:14	17° Z 06'57	20°43'10
evening set	2417 Jan 15 04:05	6° \approx 38'39		retrograde	2417 Dec 26 12:34	21° Z 58'27	
inferior conj	2417 Jan 20 15:32	0° \approx 40'54	3°04'50	asc. node	2417 Dec 27 15:57	21° Z 51'13	
minimum elong	2417 Jan 20 13:03	0° \approx 49'04	3°04'16	evening set	2417 Dec 30 11:06	20° Z 29'31	
	2417 Jan 21 03:55	30° R Z		inferior conj	2418 Jan 04 20:10	14° Z 19'43	2°30'49
min. Earth dist.	2417 Jan 21 17:37	29° Z 14'55	0.66675 AU	minimum elong	2418 Jan 04 17:36	14° Z 28'31	2°30'02
morning rise	2417 Jan 25 21:48	24° Z 27'54		min. Earth dist.	2418 Jan 05 09:14	13° Z 35'04	0.67433 AU
direct	2417 Feb 01 00:01	21° Z 45'02		morning rise	2418 Jan 09 23:55	8° Z 06'38	
morning max el	2417 Feb 13 04:33	29° Z 00'33	25°35'59	direct	2418 Jan 15 11:43	5° Z 41'11	
	2417 Feb 14 03:37	0° \approx		morning max el	2418 Jan 26 12:54	12° Z 16'29	24°11'06
desc. node	2417 Feb 16 19:32	2° \approx 56'21		desc. node	2418 Feb 03 16:33	21° Z 46'30	
	2417 Mar 08 07:16	0° X					

	2418 Feb 09 18:41	0°♊			2419 Feb 03 07:34	0°♊	
	2418 Mar 01 02:30	0°♋		morning set	2419 Feb 12 02:19	13°♊59'28	
morning set	2418 Mar 03 07:51	3°♋48'45		max. Earth dist.	2419 Feb 16 21:09	22°♊00'39	1.40200 AU
max. Earth dist.	2418 Mar 07 01:15	10°♋23'04	1.38041 AU		2419 Feb 21 11:21	0°♋	
superior conj	2418 Mar 14 03:05	23°♋30'51	-1°39'06	superior conj	2419 Feb 24 15:41	5°♋42'30	-1°57'34
minimum elong	2418 Mar 14 07:28	23°♋51'51	1°38'36	minimum elong	2419 Feb 24 19:14	5°♋58'39	1°57'22
	2418 Mar 17 11:29	0°♌		evening rise	2419 Mar 06 12:37	24°♋10'11	
evening rise	2418 Mar 22 22:56	10°♌47'54			2419 Mar 09 14:50	0°♌	
asc. node	2418 Mar 25 15:17	16°♌02'14		asc. node	2419 Mar 12 12:19	5°♌18'20	
	2418 Apr 02 12:33	0°♍		evening max el	2419 Mar 22 17:20	20°♌08'33	18°24'59
evening max el	2418 Apr 08 12:42	7°♍36'39	19°01'29	retrograde	2419 Mar 30 03:27	23°♌48'36	
retrograde	2418 Apr 17 03:16	11°♍47'32		evening set	2419 Apr 01 13:07	23°♌26'38	
evening set	2418 Apr 19 06:55	11°♍32'55		inferior conj	2419 Apr 08 21:21	18°♌52'31	2°42'30
inferior conj	2418 Apr 27 10:18	7°♍18'27	1°27'34	minimum elong	2419 Apr 09 01:11	18°♌44'41	2°41'35
minimum elong	2418 Apr 27 13:29	7°♍12'53	1°26'32	min. Earth dist.	2419 Apr 12 07:56	16°♌05'11	0.58657 AU
min. Earth dist.	2418 Apr 30 12:16	5°♍10'22	0.56731 AU	morning rise	2419 Apr 16 10:24	13°♌22'14	
desc. node	2418 May 02 15:47	3°♍49'21		desc. node	2419 Apr 19 12:48	12°♌08'28	
morning rise	2418 May 05 16:58	2°♍18'51		direct	2419 Apr 22 12:40	11°♌44'49	
direct	2418 May 10 20:19	1°♍16'32		morning max el	2419 May 06 21:56	19°♌27'47	26°59'35
morning max el	2418 May 25 03:05	8°♍38'41	25°44'04		2419 May 15 20:42	0°♎	
	2418 Jun 10 02:23	0°♏			2419 Jun 02 16:54	0°♏	
morning set	2418 Jun 21 16:18	22°♏07'05		morning set	2419 Jun 06 02:01	6°♏54'49	
asc. node	2418 Jun 21 14:32	21°♏57'43		asc. node	2419 Jun 08 11:35	12°♏00'38	
	2418 Jun 25 08:16	0°♐					
superior conj	2418 Jun 28 15:35	7°♐14'45	1°08'14	superior conj	2419 Jun 13 03:23	22°♏11'23	0°47'27
minimum elong	2418 Jun 28 13:15	7°♐01'54	1°07'50	minimum elong	2419 Jun 13 01:29	22°♏00'56	0°47'04
max. Earth dist.	2418 Jun 29 12:18	9°♐08'18	1.32471 AU	max. Earth dist.	2419 Jun 13 00:13	21°♏53'57	1.32163 AU
evening rise	2418 Jul 05 16:33	22°♐22'05			2419 Jun 16 16:47	0°♑	
	2418 Jul 09 11:16	0°♒		evening rise	2419 Jun 20 00:23	7°♑07'03	
	2418 Jul 27 13:01	0°♓			2419 Jul 02 00:04	0°♒	
desc. node	2418 Jul 29 15:05	2°♓44'28		desc. node	2419 Jul 16 12:07	20°♒18'33	
evening max el	2418 Aug 06 08:22	11°♓22'40	27°13'34	evening max el	2419 Jul 19 09:28	23°♒15'52	26°28'00
retrograde	2418 Aug 20 04:28	18°♓37'08			2419 Jul 30 00:15	0°♓	
evening set	2418 Aug 27 07:59	16°♓16'14		retrograde	2419 Aug 02 08:55	0°♓27'49	
min. Earth dist.	2418 Aug 30 22:32	13°♓29'49	0.61774 AU		2419 Aug 05 16:24	30°♓♌	
inferior conj	2418 Sep 02 23:57	10°♓44'35	-4°09'34	evening set	2419 Aug 09 00:18	28°♒37'18	
minimum elong	2418 Sep 03 05:23	10°♓32'20	4°08'18	min. Earth dist.	2419 Aug 12 22:44	26°♒01'31	0.59724 AU
morning rise	2418 Sep 10 04:23	5°♓46'27		inferior conj	2419 Aug 16 06:00	23°♒25'50	-4°47'34
direct	2418 Sep 12 14:18	5°♓21'40		minimum elong	2419 Aug 16 09:48	23°♒18'20	4°47'07
asc. node	2418 Sep 17 13:43	7°♓10'43		morning rise	2419 Aug 23 21:22	18°♒50'14	
morning max el	2418 Sep 19 12:41	8°♓50'54	17°55'14	direct	2419 Aug 26 07:43	18°♒29'01	
	2418 Oct 03 07:52	0°♔		morning max el	2419 Sep 02 23:15	22°♒11'28	18°17'31
morning set	2418 Oct 05 10:17	3°♔48'53		asc. node	2419 Sep 04 10:47	23°♒44'13	
					2419 Sep 09 01:53	0°♕	
superior conj	2418 Oct 16 00:54	22°♔44'58	1°02'35	morning set	2419 Sep 18 21:47	17°♕32'15	
minimum elong	2418 Oct 16 05:23	23°♔04'19	1°02'01		2419 Sep 25 11:59	0°♕	
	2418 Oct 20 07:03	0°♖		superior conj	2419 Sep 28 05:00	4°♕59'41	1°27'20
max. Earth dist.	2418 Oct 23 10:59	5°♖15'05	1.42711 AU	minimum elong	2419 Sep 28 08:41	5°♕16'27	1°27'00
desc. node	2418 Oct 25 14:22	8°♖44'26		max. Earth dist.	2419 Oct 05 18:47	18°♕22'28	1.40830 AU
evening rise	2418 Oct 30 04:47	16°♖04'45		evening rise	2419 Oct 10 12:02	26°♕16'11	
	2418 Nov 08 06:38	0°♗		desc. node	2419 Oct 12 11:25	29°♕28'45	
	2418 Nov 30 12:12	0°♘			2419 Oct 12 19:10	0°♖	
evening max el	2418 Dec 01 03:13	0°♘38'51	21°56'16		2419 Nov 02 00:27	0°♗	
retrograde	2418 Dec 10 09:24	6°♘09'27		evening max el	2419 Nov 13 18:30	14°♗12'35	23°15'31
evening set	2418 Dec 14 18:49	4°♘24'28		retrograde	2419 Nov 24 03:36	20°♗21'38	
asc. node	2418 Dec 14 12:58	4°♘35'57		evening set	2419 Nov 29 01:36	18°♗19'58	
	2418 Dec 18 17:56	30°♗♓		asc. node	2419 Dec 01 10:01	15°♗55'31	
inferior conj	2418 Dec 20 03:12	28°♗05'55	1°49'12	inferior conj	2419 Dec 04 10:45	11°♗56'35	1°01'23
minimum elong	2418 Dec 20 01:01	28°♗13'31	1°48'25	minimum elong	2419 Dec 04 09:22	12°♗01'20	1°00'49
min. Earth dist.	2418 Dec 20 04:36	28°♗01'04	0.67811 AU	min. Earth dist.	2419 Dec 04 01:23	12°♗28'45	0.67838 AU
morning rise	2418 Dec 25 07:04	21°♗54'21		morning rise	2419 Dec 09 17:04	5°♗48'27	
direct	2418 Dec 30 03:46	19°♗50'49		direct	2419 Dec 13 23:18	4°♗07'42	
morning max el	2419 Jan 08 23:03	25°♗38'48	22°42'31	morning max el	2419 Dec 22 14:17	9°♗09'17	21°18'47
	2419 Jan 12 21:50	0°♘			2420 Jan 07 15:12	0°♘	
desc. node	2419 Jan 21 13:35	11°♘15'02		desc. node	2420 Jan 08 10:37	1°♘10'51	

morning set	2420 Jan 22 16:04	22° Z 49'24		direct	2420 Nov 26 21:10	18° M 27'49	
	2420 Jan 27 04:00	0° \approx		morning max el	2420 Dec 04 12:58	22° M 50'23	20°05'55
max. Earth dist.	2420 Jan 29 22:15	4° \approx 29'46	1.42227 AU		2420 Dec 10 13:33	0° Z	
				desc. node	2420 Dec 25 07:40	21° Z 26'29	
superior conj	2420 Feb 06 06:55	16° \approx 52'01	-2°05'34		2420 Dec 30 21:50	0° Z	
minimum elong	2420 Feb 06 07:10	16° \approx 53'07	2°05'33	morning set	2420 Dec 31 12:36	0° Z 56'59	
	2420 Feb 13 17:58	0° H		max. Earth dist.	2421 Jan 11 07:11	17° Z 52'03	1.43855 AU
evening rise	2420 Feb 17 12:58	6° H 51'01					
asc. node	2420 Feb 27 09:21	24° H 06'22		superior conj	2421 Jan 16 20:30	26° Z 51'08	-1°57'55
	2420 Mar 02 10:28	0° Y		minimum elong	2421 Jan 16 15:16	26° Z 29'46	1°57'39
evening max el	2420 Mar 05 03:29	3° Y 05'39	18°08'27		2421 Jan 18 18:26	0° \approx	
retrograde	2420 Mar 11 20:43	6° Y 30'49		evening rise	2421 Jan 29 19:42	18° \approx 42'12	
evening set	2420 Mar 14 12:11	5° Y 59'22			2421 Feb 05 09:25	0° H	
inferior conj	2420 Mar 21 04:27	1° Y 04'36	3°25'01	asc. node	2421 Feb 13 06:23	12° H 17'44	
minimum elong	2420 Mar 21 06:50	0° Y 58'58	3°24'42	evening max el	2421 Feb 16 16:01	16° H 19'36	18°11'11
	2420 Mar 22 07:35	30° R H		retrograde	2421 Feb 23 02:49	19° H 44'18	
min. Earth dist.	2420 Mar 24 10:08	28° H 02'11	0.60808 AU	evening set	2421 Feb 25 23:42	19° H 02'05	
morning rise	2420 Mar 27 23:31	25° H 14'00		inferior conj	2421 Mar 04 03:51	13° H 47'13	3°41'18
direct	2420 Apr 03 16:55	23° H 00'58		minimum elong	2421 Mar 04 04:16	13° H 46'03	3°41'17
desc. node	2420 Apr 05 09:50	23° H 09'06		min. Earth dist.	2421 Mar 06 20:47	10° H 54'01	0.62880 AU
	2420 Apr 17 00:13	0° Y		morning rise	2421 Mar 10 07:47	7° H 44'55	
morning max el	2420 Apr 17 22:54	0° Y 54'49	27°42'22	direct	2421 Mar 17 06:23	5° H 05'55	
	2420 May 08 23:55	0° B		desc. node	2421 Mar 23 06:51	6° H 48'16	
morning set	2420 May 20 08:06	21° B 29'41		morning max el	2421 Mar 31 05:09	13° H 02'16	27°47'49
	2420 May 24 08:47	0° II			2421 Apr 13 18:58	0° Y	
asc. node	2420 May 25 08:40	2° II 09'09			2421 May 01 10:46	0° B	
max. Earth dist.	2420 May 26 11:33	4° II 35'31	1.32241 AU	morning set	2421 May 04 08:19	5° B 43'37	
				max. Earth dist.	2421 May 09 18:26	16° B 59'34	1.32732 AU
superior conj	2420 May 27 14:32	7° II 03'09	0°23'31				
minimum elong	2420 May 27 13:29	6° II 57'23	0°23'18	superior conj	2421 May 11 23:13	21° B 43'11	-0°02'52
evening rise	2420 Jun 03 11:12	21° II 58'36		minimum elong	2421 May 11 23:21	21° B 43'57	0°02'49
	2420 Jun 07 08:23	0° E		behind sun begin	2421 May 11 18:12	21° B 16'04	
	2420 Jun 26 00:49	0° Ω		behind sun end	2421 May 12 04:31	22° B 11'51	
evening max el	2420 Jun 30 03:35	4° Ω 23'35	25°13'23	asc. node	2421 May 12 05:43	22° B 18'21	
desc. node	2420 Jul 02 09:08	6° Ω 23'14			2421 May 15 18:48	0° II	
retrograde	2420 Jul 14 03:34	11° Ω 30'22		evening rise	2421 May 18 23:02	6° II 49'15	
evening set	2420 Jul 19 17:23	10° Ω 18'35			2421 May 31 04:36	0° E	
min. Earth dist.	2420 Jul 24 15:25	7° Ω 34'54	0.57706 AU	evening max el	2421 Jun 11 17:24	14° E 58'17	23°40'36
inferior conj	2420 Jul 27 17:20	5° Ω 28'49	-5°00'49	desc. node	2421 Jun 19 06:09	20° E 23'55	
minimum elong	2420 Jul 27 16:52	5° Ω 29'37	5°00'49	retrograde	2421 Jun 25 09:42	21° E 49'36	
morning rise	2420 Aug 04 18:53	1° Ω 15'25		evening set	2421 Jun 29 12:22	21° E 12'30	
direct	2420 Aug 07 08:09	0° Ω 55'58		min. Earth dist.	2421 Jul 06 03:45	18° E 05'33	0.56039 AU
morning max el	2420 Aug 16 02:11	5° Ω 03'00	19°00'29	inferior conj	2421 Jul 08 08:27	16° E 46'19	-4°34'48
asc. node	2420 Aug 21 07:51	11° Ω 19'40		minimum elong	2421 Jul 08 02:31	16° E 55'17	4°33'51
	2420 Aug 31 21:54	0° M		morning rise	2421 Jul 16 19:14	12° E 49'56	
morning set	2420 Sep 01 19:15	1° M 45'02		direct	2421 Jul 19 13:30	12° E 30'47	
				morning max el	2421 Jul 29 18:36	17° E 14'55	20°04'57
superior conj	2420 Sep 10 04:09	18° M 11'05	1°41'02	asc. node	2421 Aug 08 04:54	29° E 42'19	
minimum elong	2420 Sep 10 06:03	18° M 20'11	1°40'56		2421 Aug 08 09:07	0° Ω	
	2420 Sep 16 12:16	0° Ω		morning set	2421 Aug 16 23:30	16° Ω 17'49	
max. Earth dist.	2420 Sep 16 22:45	0° Ω 47'15	1.38778 AU		2421 Aug 23 16:35	0° M	
evening rise	2420 Sep 20 19:16	7° Ω 34'36					
desc. node	2420 Sep 28 08:27	20° Ω 06'24		superior conj	2421 Aug 24 17:07	2° M 03'35	1°45'26
	2420 Oct 04 18:02	0° M		minimum elong	2421 Aug 24 17:14	2° M 04'10	1°45'26
evening max el	2420 Oct 26 07:16	27° M 50'38	24°34'42	max. Earth dist.	2421 Aug 30 04:04	12° M 44'22	1.36800 AU
	2420 Oct 28 14:56	0° Z		evening rise	2421 Sep 03 00:43	19° M 55'21	
retrograde	2420 Nov 06 17:59	4° Z 31'28			2421 Sep 08 18:25	0° Ω	
evening set	2420 Nov 12 05:47	2° Z 13'34		desc. node	2421 Sep 15 05:29	10° Ω 32'07	
	2420 Nov 14 10:39	30° R M			2421 Sep 28 19:05	0° M	
min. Earth dist.	2420 Nov 16 21:09	26° M 55'57	0.67532 AU	evening max el	2421 Oct 08 19:25	11° M 31'14	25°46'37
asc. node	2420 Nov 17 07:03	26° M 22'58		retrograde	2421 Oct 21 03:35	18° M 33'56	
inferior conj	2420 Nov 17 17:02	25° M 49'37	0°08'35	evening set	2421 Oct 27 05:39	16° M 01'52	
minimum elong	2420 Nov 17 16:49	25° M 50'19	0°08'29	min. Earth dist.	2421 Oct 31 13:25	11° M 19'37	0.66890 AU
transit middle	2420 Nov 17 16:49	25° M 50'19	0°08'29	inferior conj	2421 Nov 01 20:15	9° M 41'52	-0°47'58
transit begin	2420 Nov 17 14:29	25° M 58'09		minimum elong	2421 Nov 01 21:30	9° M 37'54	0°47'27
transit end	2420 Nov 17 19:10	25° M 42'31		asc. node	2421 Nov 04 04:05	6° M 51'48	
morning rise	2420 Nov 23 03:55	19° M 47'15		morning rise	2421 Nov 07 13:39	3° M 48'01	

direct	2421 Nov 10 19:48	2°♄46'58		minimum elong	2422 Oct 16 21:18	23°♄21'16	1°45'35
morning max el	2421 Nov 17 19:18	6°♄41'02	19°07'26	asc. node	2422 Oct 22 01:08	18°♄15'48	
	2421 Dec 04 12:35	0°♄		morning rise	2422 Oct 22 20:05	17°♄47'28	
morning set	2421 Dec 10 16:47	9°♄36'04		direct	2422 Oct 25 17:17	17°♄01'12	
desc. node	2421 Dec 12 04:43	11°♄56'07		morning max el	2422 Nov 01 07:37	20°♄37'07	18°24'55
	2421 Dec 23 17:47	0°♄			2422 Nov 08 13:59	0°♄	
max. Earth dist.	2421 Dec 24 22:52	1°♄54'26	1.44872 AU	morning set	2422 Nov 20 23:01	19°♄35'40	
					2422 Nov 27 10:46	0°♄	
superior conj	2421 Dec 27 09:33	5°♄46'11	-1°31'12	desc. node	2422 Nov 29 01:44	2°♄35'02	
minimum elong	2421 Dec 27 00:38	5°♄10'55	1°30'21				
evening rise	2422 Jan 11 04:49	29°♄37'36		superior conj	2422 Dec 06 10:57	14°♄14'50	-0°48'18
	2422 Jan 11 10:16	0°♄		minimum elong	2422 Dec 06 04:48	13°♄50'38	0°47'30
evening max el	2422 Jan 31 04:07	29°♄43'27	18°32'27	max. Earth dist.	2422 Dec 07 17:48	16°♄16'00	1.45169 AU
asc. node	2422 Jan 31 03:23	29°♄41'36			2422 Dec 16 11:57	0°♄	
	2422 Jan 31 10:44	0°♄		evening rise	2422 Dec 22 14:31	9°♄36'07	
retrograde	2422 Feb 06 17:36	3°♄20'20		greatest brilliancy	2423 Jan 01 19:30	25°♄37'25	-0.8m
evening set	2422 Feb 09 20:04	2°♄26'30			2423 Jan 04 16:04	0°♄	
	2422 Feb 12 20:42	30°♄		evening max el	2423 Jan 14 13:21	13°♄11'16	19°11'14
inferior conj	2422 Feb 15 15:32	26°♄53'00	3°38'00	asc. node	2423 Jan 18 00:25	16°♄03'58	
minimum elong	2422 Feb 15 14:22	26°♄56'28	3°37'55	retrograde	2423 Jan 21 13:21	17°♄11'07	
min. Earth dist.	2422 Feb 17 16:56	24°♄26'57	0.64660 AU	evening set	2423 Jan 24 22:20	16°♄04'44	
morning rise	2422 Feb 21 08:09	20°♄44'14		inferior conj	2423 Jan 30 11:59	10°♄14'53	3°20'13
direct	2422 Feb 28 03:12	17°♄53'30		minimum elong	2423 Jan 30 09:49	10°♄21'49	3°19'51
desc. node	2422 Mar 10 03:52	22°♄33'23		min. Earth dist.	2423 Jan 31 22:09	8°♄25'47	0.66051 AU
morning max el	2422 Mar 13 14:29	25°♄43'39	27°18'00	morning rise	2423 Feb 04 21:03	4°♄02'39	
	2422 Mar 17 13:01	0°♄		direct	2423 Feb 11 06:23	1°♄13'50	
	2422 Apr 07 07:17	0°♄		morning max el	2423 Feb 24 00:19	8°♄46'24	26°19'21
morning set	2422 Apr 17 23:56	19°♄28'23		desc. node	2423 Feb 25 00:54	9°♄49'44	
max. Earth dist.	2422 Apr 22 17:06	28°♄55'33	1.33661 AU		2423 Mar 12 16:01	0°♄	
	2422 Apr 23 05:36	0°♄			2423 Mar 30 18:24	0°♄	
				morning set	2423 Apr 01 03:13	2°♄32'22	
superior conj	2422 Apr 26 03:32	6°♄05'39	-0°30'43	max. Earth dist.	2423 Apr 05 04:36	10°♄18'46	1.35043 AU
minimum elong	2422 Apr 26 05:06	6°♄13'52	0°30'23				
asc. node	2422 Apr 29 02:44	12°♄24'07		superior conj	2423 Apr 10 01:08	20°♄02'56	-0°58'51
evening rise	2422 May 03 10:05	21°♄33'00		minimum elong	2423 Apr 10 04:09	20°♄18'19	0°58'18
	2422 May 07 13:19	0°♄			2423 Apr 14 20:27	0°♄	
evening max el	2422 May 24 09:38	25°♄28'37	22°04'53	asc. node	2423 Apr 15 23:45	2°♄22'09	
	2422 May 30 09:52	0°♄		evening rise	2423 Apr 17 18:22	6°♄02'50	
retrograde	2422 Jun 06 03:44	1°♄46'31			2423 May 01 02:02	0°♄	
desc. node	2422 Jun 06 03:08	1°♄46'31		evening max el	2423 May 06 11:11	6°♄24'00	20°39'30
evening set	2422 Jun 08 22:23	1°♄29'22		retrograde	2423 May 17 16:50	11°♄52'08	
	2422 Jun 13 08:16	30°♄		evening set	2423 May 19 18:51	11°♄41'35	
min. Earth dist.	2422 Jun 17 14:58	27°♄46'20	0.55053 AU	desc. node	2423 May 24 00:08	10°♄22'49	
inferior conj	2422 Jun 18 07:10	27°♄23'36	-3°20'11	inferior conj	2423 May 29 00:56	7°♄43'50	-1°28'04
minimum elong	2422 Jun 17 23:12	27°♄34'47	3°17'53	minimum elong	2423 May 28 20:46	7°♄49'49	1°26'34
morning rise	2422 Jun 27 01:41	23°♄31'23		min. Earth dist.	2423 May 30 03:19	7°♄05'56	0.54978 AU
direct	2422 Jun 30 03:16	23°♄10'27		morning rise	2423 Jun 06 22:01	3°♄35'42	
morning max el	2422 Jul 11 23:27	28°♄42'23	21°29'31	direct	2423 Jun 10 12:50	3°♄07'31	
	2422 Jul 13 07:15	0°♄		morning max el	2423 Jun 23 18:43	9°♄30'46	23°08'25
asc. node	2422 Jul 26 01:58	18°♄40'52			2423 Jul 08 16:01	0°♄	
	2422 Jul 31 19:44	0°♄		asc. node	2423 Jul 12 23:01	8°♄06'10	
morning set	2422 Aug 01 08:08	1°♄04'07		morning set	2423 Jul 16 19:14	15°♄58'04	
					2423 Jul 23 08:35	0°♄	
superior conj	2422 Aug 08 15:49	16°♄25'26	1°42'16	superior conj	2423 Jul 23 21:06	1°♄07'03	1°32'56
minimum elong	2422 Aug 08 14:34	16°♄18'55	1°42'12	minimum elong	2423 Jul 23 19:01	0°♄55'54	1°32'43
max. Earth dist.	2422 Aug 12 15:52	24°♄37'08	1.35087 AU	max. Earth dist.	2423 Jul 26 12:39	6°♄44'10	1.33745 AU
	2422 Aug 15 09:10	0°♄		evening rise	2423 Jul 31 12:57	16°♄59'17	
evening rise	2422 Aug 17 00:06	3°♄07'33			2423 Aug 07 10:12	0°♄	
	2422 Sep 01 15:59	0°♄		desc. node	2423 Aug 19 23:29	20°♄22'38	
desc. node	2422 Sep 02 02:29	0°♄40'06			2423 Aug 27 02:24	0°♄	
evening max el	2422 Sep 21 07:41	25°♄08'19	26°43'37	evening max el	2423 Sep 03 19:34	8°♄32'40	27°18'27
	2422 Sep 27 08:03	0°♄		retrograde	2423 Sep 17 06:46	15°♄51'18	
retrograde	2422 Oct 04 07:56	2°♄23'00		evening set	2423 Sep 24 07:49	13°♄08'27	
evening set	2422 Oct 10 23:09	29°♄41'30		min. Earth dist.	2423 Sep 28 02:06	9°♄38'15	0.64553 AU
	2422 Oct 10 13:52	30°♄		inferior conj	2423 Sep 30 09:18	7°♄09'14	-2°45'34
min. Earth dist.	2422 Oct 14 23:46	25°♄35'44	0.65901 AU	minimum elong	2423 Sep 30 13:44	6°♄57'17	2°43'59
inferior conj	2422 Oct 16 18:25	23°♄29'46	-1°46'46				

morning rise	2423 Oct 06 20:41	1°♌41'32		inferior conj	2424 Sep 12 14:06	20°♏33'01	-3°41'06
asc. node	2423 Oct 08 22:12	1°♌07'51		minimum elong	2424 Sep 12 19:30	20°♏19'53	3°39'34
direct	2423 Oct 09 11:19	1°♌06'18		morning rise	2424 Sep 19 12:10	15°♏23'04	
morning max el	2423 Oct 15 23:23	4°♌33'21	17°59'15	direct	2424 Sep 21 22:54	14°♏55'24	
	2423 Nov 01 19:48	0°♏		asc. node	2424 Sep 24 19:15	15°♏33'51	
morning set	2423 Nov 02 10:08	1°♏00'27		morning max el	2424 Sep 28 15:32	18°♏21'46	17°51'18
					2424 Oct 07 01:34	0°♌	
superior conj	2423 Nov 15 22:20	23°♏18'16	0°00'08	morning set	2424 Oct 14 20:49	13°♌32'54	
minimum elong	2423 Nov 15 22:22	23°♏18'22	0°00'07		2424 Oct 24 07:25	0°♏	
behind sun begin	2423 Nov 15 12:03	22°♏36'53					
behind sun end	2423 Nov 16 08:40	23°♏59'48		superior conj	2424 Oct 26 10:13	3°♏34'41	0°42'54
desc. node	2423 Nov 15 22:46	23°♏20'01		minimum elong	2424 Oct 26 14:06	3°♏50'58	0°42'21
	2423 Nov 20 03:03	0°♏		desc. node	2424 Nov 01 19:49	14°♏07'22	
max. Earth dist.	2423 Nov 20 12:33	0°♏37'40	1.44728 AU	max. Earth dist.	2424 Nov 02 04:17	14°♏41'31	1.43612 AU
evening rise	2423 Dec 02 05:15	18°♏51'51		evening rise	2424 Nov 10 13:57	27°♏58'01	
	2423 Dec 09 11:45	0°♏			2424 Nov 11 21:32	0°♏	
greatest brilliancy	2423 Dec 16 13:12	10°♏35'50	-0.6m		2424 Dec 02 08:18	0°♏	
evening max el	2423 Dec 28 18:00	26°♏40'59	20°05'45	evening max el	2424 Dec 10 17:10	10°♏11'46	21°13'15
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asc. node	2424 Jan 04 21:27	1°♏10'24		asc. node	2424 Dec 21 18:30	14°♏47'58	
retrograde	2424 Jan 05 11:12	1°♏12'13		evening set	2424 Dec 23 11:41	13°♏44'31	
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evening set	2424 Jan 09 04:11	29°♏52'04		minimum elong	2424 Dec 28 17:49	7°♏39'10	2°13'13
inferior conj	2424 Jan 14 14:22	23°♏48'38	2°51'27	min. Earth dist.	2424 Dec 29 04:20	7°♏02'54	0.67637 AU
minimum elong	2424 Jan 14 11:47	23°♏57'18	2°50'47	morning rise	2425 Jan 02 23:45	1°♏17'48	
min. Earth dist.	2424 Jan 15 10:43	22°♏40'14	0.67039 AU		2425 Jan 04 18:04	30°♏	
morning rise	2424 Jan 19 19:11	17°♏35'07		direct	2425 Jan 08 05:10	29°♏01'04	
direct	2424 Jan 25 15:20	14°♏58'53			2425 Jan 11 23:41	0°♏	
morning max el	2424 Feb 06 09:08	21°♏59'30	25°00'58	morning max el	2425 Jan 18 17:43	5°♏17'08	23°33'14
desc. node	2424 Feb 11 21:58	28°♏11'17		desc. node	2425 Jan 28 19:01	17°♏19'08	
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max. Earth dist.	2424 Mar 17 04:54	21°♏20'16	1.36850 AU	max. Earth dist.	2425 Feb 26 23:36	2°♏32'34	1.38950 AU
	2424 Mar 21 18:35	0°♏					
superior conj	2424 Mar 23 13:05	3°♏27'15	-1°25'27	superior conj	2425 Mar 06 11:34	16°♏08'54	-1°47'56
minimum elong	2424 Mar 23 17:12	3°♏47'32	1°24'53	minimum elong	2425 Mar 06 15:50	16°♏28'55	1°47'32
evening rise	2424 Mar 31 21:38	20°♏12'09			2425 Mar 13 17:06	0°♏	
asc. node	2424 Apr 01 20:47	22°♏08'00		evening rise	2425 Mar 15 17:11	3°♏53'43	
	2424 Apr 05 21:45	0°♏		asc. node	2425 Mar 19 17:49	11°♏36'40	
evening max el	2424 Apr 18 00:47	17°♏59'23	19°31'38		2425 Mar 31 19:26	0°♏	
retrograde	2424 Apr 27 12:55	22°♏35'12		evening max el	2425 Apr 01 00:55	0°♏13'27	18°43'37
evening set	2424 Apr 29 13:40	22°♏23'33		retrograde	2425 Apr 09 01:49	4°♏08'48	
inferior conj	2424 May 08 04:22	18°♏18'44	0°29'26	evening set	2425 Apr 11 08:03	3°♏51'22	
minimum elong	2424 May 08 05:38	18°♏16'43	0°28'59		2425 Apr 18 10:27	30°♏	
desc. node	2424 May 09 21:10	17°♏13'16		inferior conj	2425 Apr 19 03:04	29°♏29'13	2°03'29
min. Earth dist.	2424 May 10 17:44	16°♏40'51	0.55858 AU	minimum elong	2425 Apr 19 06:55	29°♏22'04	2°02'22
morning rise	2424 May 16 18:50	13°♏38'50		min. Earth dist.	2425 Apr 22 10:54	27°♏01'43	0.57498 AU
direct	2424 May 21 07:41	12°♏52'24		desc. node	2425 Apr 26 18:12	24°♏25'25	
morning max el	2424 Jun 04 09:18	19°♏58'06	24°50'07	morning rise	2425 Apr 27 02:37	24°♏15'40	
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asc. node	2424 Jun 28 20:03	27°♏50'38			2425 May 16 11:54	0°♏	
	2424 Jun 29 20:51	0°♏		morning max el	2425 May 17 01:03	0°♏31'26	26°19'31
morning set	2424 Jun 30 07:04	0°♏53'50			2425 Jun 06 18:39	0°♏	
				morning set	2425 Jun 14 18:04	15°♏46'24	
superior conj	2424 Jul 07 06:27	15°♏59'48	1°18'31	asc. node	2425 Jun 15 17:07	17°♏48'31	
minimum elong	2424 Jul 07 04:03	15°♏46'46	1°18'10		2425 Jun 21 07:30	0°♏	
max. Earth dist.	2424 Jul 08 17:38	19°♏11'01	1.32818 AU	superior conj	2425 Jun 21 17:54	0°♏57'14	0°59'51
	2424 Jul 13 20:05	0°♏		minimum elong	2425 Jun 21 15:42	0°♏45'05	0°59'27
evening rise	2424 Jul 14 11:29	1°♏19'07		max. Earth dist.	2425 Jun 22 04:08	1°♏53'31	1.32294 AU
	2424 Jul 30 08:36	0°♏		evening rise	2425 Jun 28 16:41	15°♏57'55	
desc. node	2424 Aug 05 20:31	9°♏28'20			2425 Jul 05 18:42	0°♏	
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retrograde	2424 Aug 29 23:22	28°♏48'27			2425 Jul 25 16:57	0°♏	
evening set	2424 Sep 06 04:16	26°♏15'54		evening max el	2425 Jul 29 10:36	3°♏52'23	26°58'13
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































































































































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min. Earth dist.	2425 Aug 23 00:51	6°♎16'12	0.60918 AU	inferior conj	2426 Aug 08 03:56	15°♊58'51	-4°57'02
inferior conj	2425 Aug 26 05:31	3°♎32'57	-4°27'53	minimum elong	2426 Aug 08 06:15	15°♊54'34	4°56'53
minimum elong	2425 Aug 26 10:33	3°♎22'11	4°26'57	morning rise	2426 Aug 15 23:44	11°♊32'43	
	2425 Aug 30 21:18	30°♋♊		direct	2426 Aug 18 11:15	11°♊12'17	
morning rise	2425 Sep 02 14:38	28°♊43'48		morning max el	2426 Aug 26 12:36	15°♊03'25	18°33'08
direct	2425 Sep 05 00:21	28°♊20'47		asc. node	2426 Aug 29 13:22	18°♊26'10	
	2425 Sep 09 21:27	0°♎			2426 Sep 05 22:26	0°♎	
asc. node	2425 Sep 11 16:19	1°♎24'55		morning set	2426 Sep 11 16:58	10°♎51'58	
morning max el	2425 Sep 12 05:00	1°♎54'43	18°02'08				
morning set	2425 Sep 28 00:47	26°♎54'51		superior conj	2426 Sep 20 13:40	27°♎49'50	1°34'24
	2425 Sep 29 16:44	0°♊		minimum elong	2426 Sep 20 16:38	28°♎03'40	1°34'11
					2426 Sep 21 17:42	0°♊	
superior conj	2425 Oct 08 00:47	15°♊09'17	1°14'31	max. Earth dist.	2426 Sep 27 21:48	11°♊04'44	1.39970 AU
minimum elong	2425 Oct 08 05:08	15°♊28'32	1°14'02	evening rise	2426 Oct 02 02:49	18°♊16'20	
max. Earth dist.	2425 Oct 15 15:28	28°♊13'58	1.41958 AU	desc. node	2426 Oct 06 13:54	25°♊35'33	
	2425 Oct 16 17:01	0°♌			2426 Oct 09 08:31	0°♌	
desc. node	2425 Oct 19 16:52	4°♌53'44			2426 Oct 30 12:41	0°♌	
evening rise	2425 Oct 21 09:32	7°♌37'09		evening max el	2426 Nov 06 01:06	7°♌20'14	23°49'37
	2425 Nov 05 02:27	0°♌		retrograde	2426 Nov 16 21:09	13°♌43'16	
evening max el	2425 Nov 23 11:06	23°♌44'31	22°29'38	evening set	2426 Nov 22 01:02	11°♌34'22	
retrograde	2425 Dec 03 04:34	29°♌31'19		asc. node	2426 Nov 25 12:34	7°♌45'40	
evening set	2425 Dec 07 19:10	27°♌39'24		inferior conj	2426 Nov 27 10:56	5°♌10'23	0°39'32
asc. node	2425 Dec 08 15:33	26°♌53'47		minimum elong	2426 Nov 27 10:00	5°♌13'32	0°39'08
inferior conj	2425 Dec 13 03:44	21°♌18'34	1°29'37	min. Earth dist.	2426 Nov 26 21:04	5°♌57'33	0.67753 AU
minimum elong	2425 Dec 13 01:51	21°♌25'08	1°28'53		2426 Dec 01 17:12	30°♋♌	
min. Earth dist.	2425 Dec 13 00:33	21°♌29'36	0.67870 AU	morning rise	2426 Dec 02 18:58	29°♌04'41	
morning rise	2425 Dec 18 08:23	15°♌08'16		direct	2426 Dec 06 19:31	27°♌33'19	
direct	2425 Dec 22 22:55	13°♌14'14			2426 Dec 12 11:13	0°♌	
morning max el	2426 Jan 01 05:26	18°♌41'23	22°05'48	morning max el	2426 Dec 14 23:45	2°♌16'38	20°46'15
	2426 Jan 10 14:44	0°♊		desc. node	2427 Jan 02 13:07	27°♌05'17	
desc. node	2426 Jan 15 16:04	7°♊00'08			2427 Jan 04 11:51	0°♊	
	2426 Jan 30 23:07	0°♋		morning set	2427 Jan 13 09:37	13°♊37'40	
morning set	2426 Feb 03 05:33	5°♋12'56		max. Earth dist.	2427 Jan 22 02:23	27°♊26'28	1.42985 AU
max. Earth dist.	2426 Feb 08 21:16	14°♋30'53	1.41097 AU		2427 Jan 23 16:06	0°♋	
superior conj	2426 Feb 16 15:43	27°♋55'23	-2°02'33	superior conj	2427 Jan 28 20:25	8°♋35'31	-2°04'30
minimum elong	2426 Feb 16 18:13	28°♋06'28	2°02'27	minimum elong	2427 Jan 28 18:29	8°♋27'24	2°04'28
	2426 Feb 17 19:41	0°♌		evening rise	2427 Feb 09 19:05	29°♋19'53	
evening rise	2426 Feb 27 01:39	16°♌58'49			2427 Feb 10 04:07	0°♌	
	2426 Mar 06 05:16	0°♎		asc. node	2427 Feb 21 11:53	19°♌14'51	
asc. node	2426 Mar 06 14:52	0°♎41'21		evening max el	2427 Feb 26 19:46	26°♌01'32	18°07'12
evening max el	2426 Mar 15 08:18	12°♎56'48	18°15'35	retrograde	2427 Mar 05 09:06	29°♌25'05	
retrograde	2426 Mar 22 09:38	16°♎28'25		evening set	2427 Mar 08 02:52	28°♌49'08	
evening set	2426 Mar 24 22:00	16°♎02'27		inferior conj	2427 Mar 14 13:28	23°♌45'20	3°34'43
inferior conj	2426 Mar 31 22:56	11°♎19'22	3°04'13	minimum elong	2427 Mar 14 15:01	23°♌41'28	3°34'35
minimum elong	2426 Apr 01 02:18	11°♎12'02	3°03'33	min. Earth dist.	2427 Mar 17 14:10	20°♌44'24	0.61714 AU
min. Earth dist.	2426 Apr 04 08:42	8°♎22'45	0.59565 AU	morning rise	2427 Mar 21 01:39	17°♌48'46	
morning rise	2426 Apr 08 04:11	5°♎39'33		direct	2427 Mar 27 22:16	15°♌23'29	
desc. node	2426 Apr 13 15:14	3°♎49'03		desc. node	2427 Mar 31 12:16	15°♌59'40	
direct	2426 Apr 14 14:09	3°♎46'34		morning max el	2427 Apr 11 01:51	23°♌19'06	27°49'22
morning max el	2426 Apr 28 22:13	11°♎34'16	27°22'18		2427 Apr 17 01:09	0°♎	
	2426 May 13 07:56	0°♏			2427 May 06 13:13	0°♏	
	2426 May 29 20:52	0°♐		morning set	2427 May 14 06:18	14°♏55'26	
morning set	2426 May 30 02:27	0°♐29'00		max. Earth dist.	2427 May 20 02:27	27°♏15'17	1.32402 AU
asc. node	2426 Jun 02 14:09	7°♐53'56		asc. node	2427 May 20 11:12	28°♏02'39	
max. Earth dist.	2426 Jun 05 16:25	14°♐39'27	1.32153 AU		2427 May 21 08:46	0°♐	
superior conj	2426 Jun 06 05:36	15°♐52'02	0°37'39	superior conj	2427 May 21 15:53	0°♐38'46	0°12'35
minimum elong	2426 Jun 06 04:01	15°♐43'18	0°37'20	minimum elong	2427 May 21 15:18	0°♐35'34	0°12'28
	2426 Jun 12 17:17	0°♑		behind sun begin	2427 May 21 12:06	0°♐18'10	
evening rise	2426 Jun 13 02:02	0°♑46'25		behind sun end	2427 May 21 18:29	0°♐53'00	
	2426 Jun 29 00:10	0°♊		evening rise	2427 May 28 13:29	15°♐37'44	
desc. node	2426 Jul 10 14:32	14°♊41'27			2427 Jun 04 17:09	0°♑	
evening max el	2426 Jul 11 08:50	15°♊25'58	25°59'19	evening max el	2427 Jun 23 00:15	26°♑15'32	24°35'09
retrograde	2426 Jul 25 08:37	22°♊35'19		desc. node	2427 Jun 27 11:32	29°♑57'26	
evening set	2426 Jul 31 14:57	21°♊00'54			2427 Jun 27 13:02	0°♊	

retrograde	2427 Jul 06 22:06	3°♎17'52		behind sun end	2428 May 05 01:59	15°♎28'05	
evening set	2427 Jul 11 21:50	2°♎21'48		asc. node	2428 May 06 08:14	18°♎10'44	
	2427 Jul 16 15:48	30°♎			2428 May 11 20:18	0°♎	
min. Earth dist.	2427 Jul 17 11:18	29°♎30'02	0.56936 AU	evening rise	2428 May 12 01:12	0°♎25'52	
inferior conj	2427 Jul 20 06:31	27°♎41'56	-4°55'25		2428 May 28 17:46	0°♎	
minimum elong	2427 Jul 20 03:40	27°♎46'34	4°55'12	evening max el	2428 Jun 03 14:00	6°♎44'03	22°59'23
morning rise	2427 Jul 28 12:11	23°♎37'15		desc. node	2428 Jun 13 08:32	12°♎54'37	
direct	2427 Jul 31 03:27	23°♎18'06		retrograde	2428 Jun 16 23:21	13°♎24'28	
morning max el	2427 Aug 09 11:20	27°♎38'49	19°25'23	evening set	2428 Jun 20 10:49	12°♎57'57	
	2427 Aug 11 17:29	0°♎		min. Earth dist.	2428 Jun 27 23:04	9°♎37'04	0.55509 AU
asc. node	2427 Aug 16 10:26	6°♎22'53		inferior conj	2428 Jun 29 13:47	8°♎40'57	-4°09'05
morning set	2427 Aug 26 17:37	25°♎13'57		minimum elong	2428 Jun 29 06:17	8°♎51'52	4°07'27
	2427 Aug 29 02:37	0°♎		morning rise	2428 Jul 08 04:11	4°♎48'30	
				direct	2428 Jul 11 00:49	4°♎29'10	
superior conj	2427 Sep 03 19:16	11°♎20'28	1°43'56	morning max el	2428 Jul 21 22:59	9°♎32'59	20°38'46
minimum elong	2427 Sep 03 20:22	11°♎25'52	1°43'54	asc. node	2428 Aug 02 07:29	25°♎02'15	
max. Earth dist.	2427 Sep 10 01:35	23°♎14'58	1.37911 AU		2428 Aug 05 00:32	0°♎	
evening rise	2427 Sep 13 19:52	0°♎01'47		morning set	2428 Aug 10 00:01	9°♎53'33	
	2427 Sep 13 19:27	0°♎					
desc. node	2427 Sep 23 10:53	16°♎08'28		superior conj	2428 Aug 17 12:53	25°♎27'31	1°44'56
	2427 Oct 02 15:33	0°♎		minimum elong	2428 Aug 17 12:21	25°♎24'50	1°44'55
evening max el	2427 Oct 19 13:10	20°♎58'49	25°06'35		2428 Aug 19 18:47	0°♎	
retrograde	2427 Oct 31 09:37	27°♎50'44		max. Earth dist.	2428 Aug 22 08:47	5°♎06'14	1.36024 AU
evening set	2427 Nov 06 03:37	25°♎26'05		evening rise	2428 Aug 26 09:35	12°♎46'42	
min. Earth dist.	2427 Nov 10 15:32	20°♎23'31	0.67299 AU		2428 Sep 05 06:32	0°♎	
inferior conj	2427 Nov 11 16:07	19°♎03'08	-0°15'05	desc. node	2428 Sep 09 07:54	6°♎27'44	
minimum elong	2427 Nov 11 16:29	19°♎01'53	0°14'55		2428 Sep 26 15:35	0°♎	
transit middle	2427 Nov 11 16:29	19°♎01'53	0°14'55	evening max el	2428 Oct 01 01:16	4°♎38'59	26°13'05
transit begin	2427 Nov 11 15:24	19°♎05'27		retrograde	2428 Oct 13 17:18	11°♎48'44	
transit end	2427 Nov 11 17:34	18°♎58'20		evening set	2428 Oct 20 01:04	9°♎11'52	
asc. node	2427 Nov 12 09:37	18°♎06'08		min. Earth dist.	2428 Oct 24 05:41	4°♎44'55	0.66512 AU
morning rise	2427 Nov 17 05:34	13°♎04'16		inferior conj	2428 Oct 25 17:28	2°♎54'30	-1°12'46
direct	2427 Nov 20 17:45	11°♎53'17		minimum elong	2428 Oct 25 19:24	2°♎48'32	1°11'57
morning max el	2427 Nov 28 01:53	16°♎02'30	19°39'11		2428 Oct 28 04:36	30°♎	
	2427 Dec 08 20:47	0°♎		asc. node	2428 Oct 29 06:40	28°♎53'12	
greatest brilliancy	2427 Dec 11 06:59	3°♎34'43	-0.7m	morning rise	2428 Oct 31 14:11	27°♎05'06	
desc. node	2427 Dec 20 10:08	17°♎27'12		direct	2428 Nov 03 16:09	26°♎10'56	
morning set	2427 Dec 23 06:11	21°♎49'32		morning max el	2428 Nov 10 11:04	29°♎56'28	18°47'14
	2427 Dec 28 12:33	0°♎			2428 Nov 10 12:28	0°♎	
max. Earth dist.	2428 Jan 04 14:20	11°♎07'19	1.44367 AU		2428 Dec 01 05:04	0°♎	
				morning set	2428 Dec 01 20:05	0°♎59'15	
superior conj	2428 Jan 08 22:44	18°♎04'15	-1°48'56	desc. node	2428 Dec 06 07:10	8°♎01'11	
minimum elong	2428 Jan 08 15:21	17°♎34'35	1°48'24	max. Earth dist.	2428 Dec 17 07:10	25°♎17'50	1.45091 AU
	2428 Jan 16 06:11	0°♎					
evening rise	2428 Jan 22 17:02	10°♎47'46		superior conj	2428 Dec 18 04:29	26°♎41'35	-1°14'29
	2428 Feb 03 07:10	0°♎		minimum elong	2428 Dec 17 19:56	26°♎07'58	1°13'30
asc. node	2428 Feb 08 08:54	7°♎07'19			2428 Dec 20 06:56	0°♎	
evening max el	2428 Feb 10 08:20	9°♎19'45	18°17'58	evening rise	2429 Jan 02 16:04	21°♎17'45	
retrograde	2428 Feb 16 19:27	12°♎48'36			2429 Jan 08 01:38	0°♎	
evening set	2428 Feb 19 18:31	12°♎01'42		evening max el	2429 Jan 23 19:29	22°♎45'42	18°46'59
inferior conj	2428 Feb 25 18:35	6°♎38'39	3°41'56	asc. node	2429 Jan 25 05:56	24°♎06'44	
minimum elong	2428 Feb 25 18:16	6°♎39'32	3°41'56	retrograde	2429 Jan 30 12:39	26°♎31'09	
min. Earth dist.	2428 Feb 28 05:02	3°♎55'04	0.63678 AU	evening set	2429 Feb 02 17:41	25°♎32'16	
morning rise	2428 Mar 02 17:11	0°♎32'47		inferior conj	2429 Feb 08 10:24	19°♎51'47	3°31'57
	2428 Mar 03 10:23	30°♎		minimum elong	2429 Feb 08 08:43	19°♎56'55	3°31'46
direct	2428 Mar 09 15:02	27°♎46'54		min. Earth dist.	2429 Feb 10 05:17	17°♎40'19	0.65304 AU
	2428 Mar 16 10:35	0°♎		morning rise	2429 Feb 13 23:21	13°♎41'11	
desc. node	2428 Mar 17 09:18	0°♎36'22		direct	2429 Feb 20 14:57	10°♎49'21	
morning max el	2428 Mar 23 09:56	5°♎42'45	27°39'09	desc. node	2429 Mar 04 06:20	17°♎03'43	
	2428 Apr 10 20:42	0°♎		morning max el	2429 Mar 05 19:37	18°♎34'13	26°55'57
morning set	2428 Apr 27 03:16	28°♎58'13			2429 Mar 15 11:39	0°♎	
	2428 Apr 27 15:39	0°♎			2429 Apr 03 19:48	0°♎	
max. Earth dist.	2428 May 02 06:15	9°♎28'08	1.33066 AU	morning set	2429 Apr 10 14:08	12°♎27'07	
				max. Earth dist.	2429 Apr 15 00:04	21°♎08'21	1.34186 AU
superior conj	2428 May 04 22:57	15°♎11'53	-0°14'33				
minimum elong	2428 May 04 23:41	15°♎15'44	0°14'24	superior conj	2429 Apr 19 00:45	29°♎24'38	-0°42'42
behind sun begin	2428 May 04 21:22	15°♎03'24		minimum elong	2429 Apr 19 02:56	29°♎36'01	0°42'17

	2429 Apr 19 07:31	0°♄		minimum elong	2430 Apr 02 22:15	13°♄27'37	1°09'52
asc. node	2429 Apr 23 05:15	8°♄13'44		asc. node	2430 Apr 10 02:18	28°♄07'40	
evening rise	2429 Apr 26 11:19	15°♄04'16		evening rise	2430 Apr 10 17:47	29°♄26'46	
	2429 May 04 01:29	0°♄			2430 Apr 11 00:19	0°♄	
evening max el	2429 May 16 09:45	17°♄22'52	21°26'52	evening max el	2430 Apr 28 16:31	28°♄35'12	20°08'17
retrograde	2429 May 28 13:51	23°♄20'31			2430 Apr 30 06:14	0°♄	
evening set	2429 May 30 23:02	23°♄07'35		retrograde	2430 May 09 03:58	3°♄39'53	
desc. node	2429 May 31 05:34	23°♄04'31		evening set	2430 May 11 04:19	3°♄29'26	
inferior conj	2429 Jun 09 08:42	19°♄07'38	-2°35'38	desc. node	2430 May 18 02:34	0°♄43'54	
minimum elong	2429 Jun 09 01:46	19°♄17'21	2°33'22		2430 May 19 08:58	30°♄	
min. Earth dist.	2429 Jun 09 10:55	19°♄04'32	0.54896 AU	inferior conj	2430 May 20 04:55	29°♄30'25	-0°36'51
morning rise	2429 Jun 18 05:08	15°♄10'46		minimum elong	2430 May 20 03:12	29°♄32'59	0°36'12
direct	2429 Jun 21 11:24	14°♄47'36		min. Earth dist.	2430 May 21 23:52	28°♄26'36	0.55248 AU
morning max el	2429 Jul 03 23:17	20°♄42'24	22°10'21	morning rise	2430 May 29 00:26	25°♄10'23	
	2429 Jul 11 18:32	0°♄		direct	2430 Jun 02 00:03	24°♄35'51	
asc. node	2429 Jul 20 04:31	14°♄13'05			2430 Jun 14 04:54	0°♄	
morning set	2429 Jul 25 09:56	24°♄43'38		morning max el	2430 Jun 15 15:39	1°♄18'11	23°52'08
	2429 Jul 27 21:57	0°♄			2430 Jul 05 03:49	0°♄	
				asc. node	2430 Jul 07 01:35	3°♄47'24	
superior conj	2429 Aug 01 14:43	9°♄58'45	1°39'00	morning set	2430 Jul 09 21:34	9°♄38'57	
minimum elong	2429 Aug 01 13:03	9°♄49'57	1°38'52				
max. Earth dist.	2429 Aug 05 00:16	17°♄03'14	1.34468 AU	superior conj	2430 Jul 16 21:59	24°♄45'39	1°27'23
evening rise	2429 Aug 09 15:15	26°♄17'31		minimum elong	2430 Jul 16 19:43	24°♄33'21	1°27'07
	2429 Aug 11 13:42	0°♄		max. Earth dist.	2430 Jul 19 01:01	29°♄19'35	1.33307 AU
desc. node	2429 Aug 27 04:55	26°♄26'00			2430 Jul 19 08:37	0°♄	
	2429 Aug 29 15:19	0°♄		evening rise	2430 Jul 24 08:39	10°♄22'21	
evening max el	2429 Sep 13 13:43	18°♄12'50	27°01'36		2430 Aug 03 21:40	0°♄	
retrograde	2429 Sep 26 19:24	25°♄29'51		desc. node	2430 Aug 14 01:56	15°♄54'13	
evening set	2429 Oct 03 15:10	22°♄46'57			2430 Aug 25 13:18	0°♄	
min. Earth dist.	2429 Oct 07 13:04	18°♄56'16	0.65371 AU	evening max el	2430 Aug 27 01:11	1°♄28'19	27°24'56
inferior conj	2429 Oct 09 12:52	16°♄39'56	-2°11'51	retrograde	2430 Sep 09 15:25	8°♄45'44	
minimum elong	2429 Oct 09 16:26	16°♄29'46	2°10'27	evening set	2430 Sep 16 19:04	6°♄05'58	
morning rise	2429 Oct 15 18:29	11°♄03'06		min. Earth dist.	2430 Sep 20 11:24	2°♄49'34	0.63878 AU
asc. node	2429 Oct 16 03:42	10°♄52'30		inferior conj	2430 Sep 22 23:50	0°♄13'32	-3°09'46
direct	2429 Oct 18 12:35	10°♄21'55		minimum elong	2430 Sep 23 04:47	0°♄00'44	3°08'08
morning max el	2429 Oct 25 01:08	13°♄53'12	18°11'48		2430 Sep 23 05:04	30°♄	
	2429 Nov 05 12:34	0°♄		morning rise	2430 Sep 29 15:39	24°♄52'50	
morning set	2429 Nov 12 15:05	11°♄37'09		direct	2430 Oct 02 04:25	24°♄21'03	
desc. node	2429 Nov 23 04:14	28°♄43'17		asc. node	2430 Oct 03 00:46	24°♄24'41	
	2429 Nov 23 23:27	0°♄		morning max el	2430 Oct 08 17:22	27°♄46'34	17°53'39
					2430 Oct 10 17:29	0°♄	
superior conj	2429 Nov 27 07:40	5°♄18'33	-0°27'41	morning set	2430 Oct 25 13:03	23°♄33'29	
minimum elong	2429 Nov 27 04:07	5°♄04'30	0°27'12		2430 Oct 29 07:16	0°♄	
max. Earth dist.	2429 Nov 30 02:24	9°♄41'48	1.45076 AU				
	2429 Dec 13 02:23	0°♄		superior conj	2430 Nov 07 04:25	14°♄50'12	0°19'27
evening rise	2429 Dec 13 16:42	0°♄55'40		minimum elong	2430 Nov 07 06:32	14°♄58'49	0°19'08
greatest brilliancy	2429 Dec 25 23:09	19°♄51'49	-0.7m	desc. node	2430 Nov 10 01:16	19°♄29'40	
	2430 Jan 01 23:05	0°♄		max. Earth dist.	2430 Nov 12 20:48	24°♄00'19	1.44334 AU
evening max el	2430 Jan 07 03:03	6°♄15'28	19°32'43		2430 Nov 16 15:45	0°♄	
asc. node	2430 Jan 12 02:58	9°♄59'11		evening rise	2430 Nov 23 02:56	10°♄02'55	
retrograde	2430 Jan 14 09:30	10°♄27'20			2430 Dec 06 08:02	0°♄	
evening set	2430 Jan 17 21:45	9°♄15'12		evening max el	2430 Dec 21 05:29	19°♄46'03	20°33'03
inferior conj	2430 Jan 23 09:42	3°♄19'26	3°09'11	retrograde	2430 Dec 29 07:29	24°♄32'08	
minimum elong	2430 Jan 23 07:17	3°♄27'20	3°08'40	asc. node	2430 Dec 30 00:01	24°♄29'29	
min. Earth dist.	2430 Jan 24 13:49	1°♄47'28	0.66526 AU	evening set	2431 Jan 02 04:32	23°♄05'27	
	2430 Jan 25 23:53	30°♄		inferior conj	2431 Jan 07 13:50	16°♄57'06	2°36'31
morning rise	2430 Jan 28 16:35	27°♄06'41		minimum elong	2431 Jan 07 11:14	17°♄05'56	2°35'46
direct	2430 Feb 03 20:46	24°♄22'00		min. Earth dist.	2431 Jan 08 04:42	16°♄06'27	0.67344 AU
	2430 Feb 14 10:41	0°♄		morning rise	2431 Jan 12 17:47	10°♄43'52	
morning max el	2430 Feb 16 04:52	1°♄42'05	25°47'46	direct	2431 Jan 18 07:45	8°♄15'35	
desc. node	2430 Feb 19 03:24	4°♄50'48		morning max el	2431 Jan 29 13:23	14°♄57'41	24°24'14
	2430 Mar 09 13:43	0°♄		desc. node	2431 Feb 06 00:27	23°♄34'01	
morning set	2430 Mar 24 10:46	25°♄09'59			2431 Feb 10 21:03	0°♄	
	2430 Mar 27 01:02	0°♄			2431 Mar 02 11:40	0°♄	
max. Earth dist.	2430 Mar 28 06:26	2°♄19'46	1.35766 AU	morning set	2431 Mar 06 11:31	6°♄50'30	
				max. Earth dist.	2431 Mar 10 03:55	13°♄23'27	1.37727 AU
superior conj	2430 Apr 02 18:42	13°♄09'44	-1°10'27				

superior conj	2431 Mar 17 01:24	26° X 17'05	-1°35'42	superior conj	2432 Feb 27 16:41	8° X 36'40	-1°55'22
minimum elong	2431 Mar 17 05:46	26° X 38'06	1°35'09	minimum elong	2432 Feb 27 20:30	8° X 54'10	1°55'05
	2431 Mar 18 23:21	0° Y		evening rise	2432 Mar 08 09:26	26° X 52'47	
evening rise	2431 Mar 25 18:08	13° Y 25'22			2432 Mar 10 00:46	0° Y	
asc. node	2431 Mar 27 23:20	17° Y 47'00		asc. node	2432 Mar 13 20:22	7° Y 06'31	
	2431 Apr 03 15:32	0° Z		evening max el	2432 Mar 24 14:18	22° Y 54'20	18°29'10
evening max el	2431 Apr 11 10:46	10° Z 26'58	19°08'38	retrograde	2432 Apr 01 03:57	26° Y 37'52	
retrograde	2431 Apr 20 06:41	14° Z 44'02		evening set	2432 Apr 03 12:39	26° Y 17'12	
evening set	2431 Apr 22 09:26	14° Z 30'19		inferior conj	2432 Apr 10 23:37	21° Y 46'21	2°33'20
inferior conj	2431 Apr 30 15:47	10° Z 18'28	1°13'15	minimum elong	2432 Apr 11 03:32	21° Y 38'31	2°32'20
minimum elong	2431 Apr 30 18:35	10° Z 13'42	1°12'18	min. Earth dist.	2432 Apr 14 10:00	19° Y 03'16	0.58344 AU
min. Earth dist.	2431 May 03 14:59	8° Z 17'49	0.56482 AU	morning rise	2432 Apr 18 15:25	16° Y 19'58	
desc. node	2431 May 04 23:36	7° Z 26'07		desc. node	2432 Apr 20 20:39	15° Y 24'31	
morning rise	2431 May 09 00:42	5° Z 23'52		direct	2432 Apr 24 14:42	14° Y 47'54	
direct	2431 May 14 00:11	4° Z 26'07		morning max el	2432 May 09 00:02	22° Y 28'52	26°50'14
morning max el	2431 May 28 06:06	11° Z 44'29	25°30'43		2432 May 15 15:49	0° Z	
	2431 Jun 11 07:25	0° II			2432 Jun 03 04:16	0° II	
asc. node	2431 Jun 23 22:38	23° II 38'18		morning set	2432 Jun 07 19:19	9° II 23'21	
morning set	2431 Jun 24 09:15	24° II 34'08		asc. node	2432 Jun 09 19:40	13° II 40'03	
	2431 Jun 26 22:08	0° III					
superior conj	2431 Jul 01 08:27	9° III 41'00	1°11'04	superior conj	2432 Jun 14 20:11	24° II 38'08	0°50'49
minimum elong	2431 Jul 01 06:05	9° III 28'01	1°10'42	minimum elong	2432 Jun 14 18:12	24° II 27'09	0°50'27
max. Earth dist.	2431 Jul 02 08:54	11° III 54'43	1.32545 AU	max. Earth dist.	2432 Jun 14 20:27	24° II 39'35	1.32179 AU
evening rise	2431 Jul 08 10:19	24° III 51'00			2432 Jun 17 06:45	0° III	
	2431 Jul 10 23:10	0° IV		evening rise	2432 Jun 21 17:31	9° III 34'37	
	2431 Jul 28 12:29	0° V			2432 Jul 02 07:10	0° IV	
desc. node	2431 Jul 31 22:56	4° V 40'03		desc. node	2432 Jul 17 19:57	22° III 25'31	
evening max el	2431 Aug 09 09:15	14° V 12'08	27°17'32	evening max el	2432 Jul 21 11:27	26° III 12'46	26°36'55
retrograde	2431 Aug 23 04:51	21° V 27'30			2432 Jul 26 01:40	0° V	
evening set	2431 Aug 30 09:06	19° V 02'59		retrograde	2432 Aug 04 10:42	3° V 25'20	
min. Earth dist.	2431 Sep 02 23:21	16° V 13'37	0.62063 AU	evening set	2432 Aug 11 04:39	1° V 29'39	
inferior conj	2431 Sep 05 23:22	13° V 28'23	-4°02'27		2432 Aug 13 13:03	30° R 0	
minimum elong	2431 Sep 06 04:51	13° V 15'46	4°01'07	min. Earth dist.	2432 Aug 15 01:04	28° III 53'19	0.60032 AU
morning rise	2431 Sep 13 02:10	8° V 27'12		inferior conj	2432 Aug 18 07:58	26° III 14'56	-4°43'10
direct	2431 Sep 15 12:10	8° V 01'47		minimum elong	2432 Aug 18 12:11	26° III 06'25	4°42'34
asc. node	2431 Sep 19 21:51	9° V 28'51		morning rise	2432 Aug 25 21:45	21° III 35'50	
morning max el	2431 Sep 22 08:50	11° V 29'57	17°53'38	direct	2432 Aug 28 07:47	21° III 14'16	
	2431 Oct 04 17:13	0° VI		morning max el	2432 Sep 04 20:16	24° III 54'17	18°12'50
morning set	2431 Oct 08 07:48	6° VI 29'20		asc. node	2432 Sep 05 18:54	25° III 51'51	
					2432 Sep 09 02:34	0° VI	
superior conj	2431 Oct 19 04:01	25° VI 41'35	0°57'46	morning set	2432 Sep 20 17:28	20° VI 07'33	
minimum elong	2431 Oct 19 08:26	26° VI 00'31	0°57'12		2432 Sep 25 23:19	0° VII	
	2431 Oct 21 16:47	0° VII		superior conj	2432 Sep 30 04:45	7° VI 46'22	1°24'19
max. Earth dist.	2431 Oct 26 11:03	7° VII 54'03	1.42959 AU	minimum elong	2432 Sep 30 08:39	8° VI 03'59	1°23'56
desc. node	2431 Oct 27 22:18	10° VII 17'20		max. Earth dist.	2432 Oct 07 19:27	21° VI 07'18	1.41131 AU
evening rise	2431 Nov 02 14:23	19° VII 18'42		evening rise	2432 Oct 12 18:21	29° VI 21'09	
	2431 Nov 09 13:14	0° VIII			2432 Oct 13 03:55	0° VII	
	2431 Dec 01 02:22	0° IX		desc. node	2432 Oct 13 19:19	1° VII 02'18	
evening max el	2431 Dec 04 02:14	3° IX 17'35	21°44'49		2432 Nov 02 02:38	0° VIII	
retrograde	2431 Dec 13 04:38	8° IX 42'34		evening max el	2432 Nov 15 18:08	16° VIII 51'05	23°03'33
asc. node	2431 Dec 16 21:04	7° IX 28'19		retrograde	2432 Nov 25 23:17	22° VIII 54'36	
evening set	2431 Dec 17 12:16	7° IX 00'06		evening set	2432 Nov 30 19:16	20° VIII 55'34	
inferior conj	2431 Dec 22 20:39	0° IX 42'33	1°56'00	asc. node	2432 Dec 02 18:06	18° VIII 59'16	
minimum elong	2431 Dec 22 18:23	0° IX 50'26	1°55'10	inferior conj	2432 Dec 06 04:13	14° VIII 32'42	1°09'01
min. Earth dist.	2431 Dec 22 23:44	0° IX 31'52	0.67779 AU	minimum elong	2432 Dec 06 02:41	14° VIII 37'59	1°08'24
	2431 Dec 23 08:56	30° R 0		min. Earth dist.	2432 Dec 05 20:29	14° VIII 59'22	0.67858 AU
morning rise	2431 Dec 28 00:20	24° X 30'30		morning rise	2432 Dec 11 10:01	8° X 23'50	
direct	2432 Jan 01 23:14	22° X 23'31		direct	2432 Dec 15 18:22	6° X 39'37	
morning max el	2432 Jan 11 23:04	28° X 19'02	22°55'32	morning max el	2432 Dec 24 13:15	11° X 47'44	21°30'37
	2432 Jan 13 13:35	0° X			2433 Jan 07 19:22	0° X	
desc. node	2432 Jan 23 21:31	12° X 57'41		desc. node	2433 Jan 09 18:33	2° X 50'06	
	2432 Feb 04 14:22	0° XI		morning set	2433 Jan 25 04:01	26° X 14'37	
morning set	2432 Feb 15 10:17	17° XI 13'43			2433 Jan 27 12:31	0° XI	
max. Earth dist.	2432 Feb 19 23:06	24° XI 52'54	1.39879 AU	max. Earth dist.	2433 Jan 31 23:03	7° XI 13'36	1.41944 AU
	2432 Feb 22 21:40	0° XII					
				superior conj	2433 Feb 08 11:29	19° XI 56'44	-2°05'14

minimum elong	2433 Feb 08 12:25	20° \approx 00'47	2°05'14	superior conj	2434 Jan 20 05:01	0° \approx 06'29	-2°00'16
	2433 Feb 14 04:06	0° H		minimum elong	2434 Jan 20 00:38	29° Z 48'29	2°00'05
evening rise	2433 Feb 19 12:03	9° H 40'37			2434 Jan 20 03:26	0° \approx	
asc. node	2433 Feb 28 17:23	25° H 59'34		evening rise	2434 Feb 01 21:40	21° \approx 39'41	
	2433 Mar 03 07:23	0° Y			2434 Feb 06 16:55	0° H	
evening max el	2433 Mar 07 23:53	5° Y 48'50	18°09'40	asc. node	2434 Feb 15 14:25	14° H 17'13	
retrograde	2433 Mar 14 18:49	9° Y 15'04		evening max el	2434 Feb 19 12:15	19° H 00'49	18°09'33
evening set	2433 Mar 17 09:31	8° Y 45'04		retrograde	2434 Feb 25 23:20	22° H 24'42	
inferior conj	2433 Mar 24 03:56	3° Y 53'25	3°20'24	evening set	2434 Feb 28 19:28	21° H 44'04	
minimum elong	2433 Mar 24 06:35	3° Y 47'15	3°20'00	inferior conj	2434 Mar 07 01:09	16° H 32'00	3°40'11
min. Earth dist.	2433 Mar 27 11:01	0° Y 51'38	0.60487 AU	minimum elong	2434 Mar 07 01:52	16° H 30'06	3°40'10
	2433 Mar 28 11:15	30° K H		min. Earth dist.	2434 Mar 09 20:11	13° H 36'17	0.62586 AU
morning rise	2433 Mar 31 01:34	28° H 05'24		morning rise	2434 Mar 13 07:07	10° H 31'05	
direct	2433 Apr 06 17:27	25° H 57'13		direct	2434 Mar 20 05:30	7° H 55'19	
desc. node	2433 Apr 07 17:41	26° H 00'03		desc. node	2434 Mar 25 14:44	9° H 17'10	
	2433 Apr 16 15:12	0° Y		morning max el	2434 Apr 03 05:34	15° H 51'24	27°49'25
morning max el	2433 Apr 20 23:59	3° Y 49'43	27°38'20		2434 Apr 14 20:02	0° Y	
	2433 May 10 06:55	0° B			2434 May 02 21:56	0° B	
morning set	2433 May 23 02:03	24° B 00'38		morning set	2434 May 07 03:17	8° B 18'03	
	2433 May 25 22:21	0° II		max. Earth dist.	2434 May 12 15:58	19° B 50'31	1.32636 AU
asc. node	2433 May 27 16:41	3° II 48'00					
max. Earth dist.	2433 May 29 08:07	7° II 22'51	1.32205 AU	superior conj	2434 May 14 16:41	24° B 13'14	0°01'19
				minimum elong	2434 May 14 16:37	24° B 12'53	0°01'18
superior conj	2433 May 30 07:32	9° II 31'11	0°27'21	behind sun begin	2434 May 14 11:26	23° B 44'49	
minimum elong	2433 May 30 06:19	9° II 24'35	0°27'05	behind sun end	2434 May 14 21:48	24° B 40'59	
evening rise	2433 Jun 06 04:00	24° II 25'54		asc. node	2434 May 14 13:42	23° B 57'05	
	2433 Jun 08 20:07	0° E			2434 May 17 08:28	0° II	
	2433 Jun 26 15:57	0° O		evening rise	2434 May 21 15:48	9° II 17'04	
evening max el	2433 Jul 03 06:37	7° O 27'13	25°26'02		2434 Jun 01 09:13	0° E	
desc. node	2433 Jul 04 16:56	8° O 45'47		evening max el	2434 Jun 14 20:39	18° E 04'54	23°54'55
retrograde	2433 Jul 17 06:49	14° O 34'41		desc. node	2434 Jun 21 13:57	23° E 07'29	
evening set	2433 Jul 23 01:13	13° O 17'08		retrograde	2434 Jun 28 14:38	24° E 59'22	
min. Earth dist.	2433 Jul 27 18:39	10° O 35'43	0.57999 AU	evening set	2434 Jul 02 22:55	24° E 17'44	
inferior conj	2433 Jul 30 22:13	8° O 24'08	-5°01'05	min. Earth dist.	2434 Jul 09 07:13	21° E 15'10	0.56256 AU
minimum elong	2433 Jul 30 22:33	8° O 23'33	5°01'04	inferior conj	2434 Jul 11 16:12	19° E 48'10	-4°41'49
morning rise	2433 Aug 07 22:17	4° O 07'23		minimum elong	2434 Jul 11 10:59	19° E 56'09	4°41'06
direct	2433 Aug 10 11:02	3° O 47'42		morning rise	2434 Jul 20 01:41	15° E 49'58	
morning max el	2433 Aug 19 00:27	7° O 50'20	18°52'39	direct	2434 Jul 22 19:12	15° E 30'49	
asc. node	2433 Aug 23 15:56	13° O 18'40		morning max el	2434 Aug 01 18:30	20° E 08'19	19°54'02
	2433 Sep 02 09:00	0° P			2434 Aug 09 13:26	0° O	
morning set	2433 Sep 04 13:39	4° P 16'23		asc. node	2434 Aug 10 12:59	1° O 34'49	
				morning set	2434 Aug 19 17:04	18° O 46'53	
					2434 Aug 25 05:24	0° P	
superior conj	2433 Sep 13 01:22	20° P 49'56	1°39'36				
minimum elong	2433 Sep 13 03:33	21° P 00'19	1°39'28	superior conj	2434 Aug 27 12:34	4° P 37'19	1°45'18
	2433 Sep 17 23:24	0° O		minimum elong	2434 Aug 27 12:56	4° P 39'08	1°45'17
max. Earth dist.	2433 Sep 19 23:53	3° O 38'21	1.39091 AU	max. Earth dist.	2434 Sep 02 04:47	15° P 38'58	1.37082 AU
evening rise	2433 Sep 23 21:57	10° O 29'14		evening rise	2434 Sep 06 00:19	22° P 41'20	
desc. node	2433 Sep 30 16:18	21° O 40'54			2434 Sep 10 03:58	0° O	
	2433 Oct 06 00:23	0° M		desc. node	2434 Sep 17 13:18	12° O 08'52	
	2433 Oct 28 19:48	0° X			2434 Sep 29 19:16	0° M	
evening max el	2433 Oct 29 07:11	0° X 28'29	24°23'13	evening max el	2434 Oct 11 19:18	14° M 09'03	25°36'39
retrograde	2433 Nov 09 14:10	7° X 04'47		retrograde	2434 Oct 24 00:30	21° M 09'06	
evening set	2433 Nov 14 23:54	4° X 49'14		evening set	2434 Oct 30 00:32	18° M 38'48	
	2433 Nov 19 06:26	30° K M		min. Earth dist.	2434 Nov 03 09:22	13° M 51'19	0.67008 AU
min. Earth dist.	2433 Nov 19 16:29	29° M 26'35	0.67601 AU	inferior conj	2434 Nov 04 14:34	12° M 17'58	-0°39'15
asc. node	2433 Nov 19 15:09	29° M 31'01		minimum elong	2434 Nov 04 15:35	12° M 14'43	0°38'48
inferior conj	2433 Nov 20 10:46	28° M 25'15	0°16'50	asc. node	2434 Nov 06 12:12	9° M 56'06	
minimum elong	2433 Nov 20 10:21	28° M 26'37	0°16'40	morning rise	2434 Nov 10 06:53	6° M 22'49	
morning rise	2433 Nov 25 20:50	22° M 21'54		direct	2434 Nov 13 14:34	5° M 19'17	
direct	2433 Nov 29 15:58	20° M 59'23		morning max el	2434 Nov 20 16:01	9° M 16'46	19°15'11
morning max el	2433 Dec 07 10:42	25° M 26'54	20°15'55		2434 Dec 05 18:48	0° X	
	2433 Dec 11 10:57	0° X		morning set	2434 Dec 14 03:10	12° X 54'17	
desc. node	2433 Dec 27 15:35	23° X 03'03		desc. node	2434 Dec 14 12:36	13° X 30'54	
	2434 Jan 01 05:06	0° Z			2434 Dec 25 02:01	0° Z	
morning set	2434 Jan 04 01:40	4° Z 24'00		max. Earth dist.	2434 Dec 27 22:07	4° Z 27'59	1.44764 AU
max. Earth dist.	2434 Jan 14 07:07	20° Z 29'48	1.43647 AU				

superior conj	2434 Dec 30 21:10	9°  09'15	-1°36'28	desc. node	2435 Dec 01 09:37	4°  08'43	
minimum elong	2434 Dec 30 12:27	8°  34'38	1°35'39				
	2435 Jan 12 18:29	0°  33'44		superior conj	2435 Dec 09 23:01	17°  38'18	-0°55'27
evening rise	2435 Jan 14 10:11	2°  43'44		minimum elong	2435 Dec 09 16:04	17°  11'00	0°54'34
	2435 Jan 31 21:37	0°  33'44		max. Earth dist.	2435 Dec 10 16:37	18°  47'21	1.45172 AU
asc. node	2435 Feb 02 11:28	1°  49'09			2435 Dec 17 20:00	0°  33'44	
evening max el	2435 Feb 03 00:33	2°  23'18	18°28'08	evening rise	2435 Dec 25 23:17	12°  50'09	
retrograde	2435 Feb 09 13:11	5°  57'51		greatest brilliancy	2436 Jan 04 09:33	27°  43'50	-0.8m
evening set	2435 Feb 12 14:44	5°  05'49			2436 Jan 05 20:34	0°  33'44	
inferior conj	2435 Feb 18 11:17	29°  34'50	3°39'30	evening max el	2436 Jan 17 10:18	15°  50'35	19°04'26
minimum elong	2435 Feb 18 10:19	29°  37'39	3°39'26	asc. node	2436 Jan 20 08:32	18°  21'45	
	2435 Feb 18 02:40	30°  37'39		retrograde	2436 Jan 24 08:24	19°  46'34	
min. Earth dist.	2435 Feb 20 14:59	27°  03'57	0.64417 AU	evening set	2436 Jan 27 16:16	18°  42'12	
morning rise	2435 Feb 24 05:20	23°  26'41		inferior conj	2436 Feb 02 06:39	12°  54'40	3°23'41
direct	2435 Mar 03 01:15	20°  36'53		minimum elong	2436 Feb 02 04:35	13°  01'11	3°23'21
desc. node	2435 Mar 12 11:47	24°  45'34		min. Earth dist.	2436 Feb 03 19:02	10°  59'34	0.65869 AU
morning max el	2435 Mar 16 14:44	28°  28'47	27°24'29	morning rise	2436 Feb 07 16:35	6°  42'40	
	2435 Mar 18 02:00	0°  33'44		direct	2436 Feb 14 03:38	3°  52'43	
	2435 Apr 08 15:02	0°  33'44		morning max el	2436 Feb 27 00:42	11°  29'16	26°29'31
morning set	2435 Apr 20 20:23	22°  07'45		desc. node	2436 Feb 27 08:50	11°  49'55	
	2435 Apr 24 18:31	0°  33'44			2436 Mar 12 19:31	0°  33'44	
max. Earth dist.	2435 Apr 25 16:10	1°  51'29	1.33496 AU		2436 Mar 31 04:59	0°  33'44	
				morning set	2436 Apr 03 01:49	5°  18'56	
superior conj	2435 Apr 28 21:47	8°  38'29	-0°26'25	max. Earth dist.	2436 Apr 07 05:21	13°  19'02	1.34803 AU
minimum elong	2435 Apr 28 23:07	8°  45'33	0°26'09				
asc. node	2435 May 01 10:45	14°  03'36		superior conj	2436 Apr 11 20:35	22°  40'15	-0°54'38
evening rise	2435 May 06 03:06	24°  02'09		minimum elong	2436 Apr 11 23:23	22°  54'38	0°54'07
	2435 May 09 00:22	0°  33'44			2436 Apr 15 09:16	0°  33'44	
evening max el	2435 May 27 11:56	28°  33'20	22°18'41	asc. node	2436 Apr 17 07:49	4°  03'26	
	2435 May 29 01:45	0°  33'44		evening rise	2436 Apr 19 11:57	8°  34'38	
desc. node	2435 Jun 08 10:59	4°  55'41			2436 May 01 01:03	0°  33'44	
retrograde	2435 Jun 09 10:28	4°  57'52		evening max el	2436 May 08 11:55	9°  24'29	20°51'18
evening set	2435 Jun 12 09:04	4°  38'44		retrograde	2436 May 19 23:49	15°  20'38	
min. Earth dist.	2435 Jun 20 18:23	1°  51'53	0.55143 AU	evening set	2436 May 22 03:01	14°  49'47	
inferior conj	2435 Jun 21 16:48	0°  30'16	-3°34'26	desc. node	2436 May 25 08:01	13°  56'13	
minimum elong	2435 Jun 21 08:44	0°  41'39	3°32'16	inferior conj	2436 May 31 10:30	10°  51'59	-1°46'21
	2435 Jun 22 14:19	30°  37'39		minimum elong	2436 May 31 05:30	10°  59'05	1°44'34
morning rise	2435 Jun 30 10:22	26°  38'46		min. Earth dist.	2436 Jun 01 06:44	10°  23'09	0.54922 AU
direct	2435 Jul 03 10:31	26°  18'24		morning rise	2436 Jun 09 07:39	6°  47'17	
	2435 Jul 13 00:40	0°  33'44		direct	2436 Jun 12 19:54	6°  20'43	
morning max el	2435 Jul 15 01:06	1°  42'44	21°15'54	morning max el	2436 Jun 25 21:40	12°  37'01	22°53'09
asc. node	2435 Jul 28 10:01	20°  52'83			2436 Jul 08 22:48	0°  33'44	
	2435 Aug 02 07:53	0°  33'44		asc. node	2436 Jul 14 07:04	9°  50'36	
morning set	2435 Aug 04 01:11	3°  31'43		morning set	2436 Jul 18 12:04	18°  25'19	
					2436 Jul 23 22:16	0°  33'44	
superior conj	2435 Aug 11 10:04	18°  55'51	1°43'10	superior conj	2436 Jul 25 14:35	3°  35'38	1°34'42
minimum elong	2435 Aug 11 09:00	18°  50'16	1°43'08	minimum elong	2436 Jul 25 12:36	3°  25'01	1°34'31
max. Earth dist.	2435 Aug 15 15:16	27°  30'40	1.35315 AU	max. Earth dist.	2436 Jul 28 10:39	9°  34'59	1.33919 AU
	2435 Aug 16 21:27	0°  33'44		evening rise	2436 Aug 02 08:30	19°  34'06	
evening rise	2435 Aug 19 21:20	5°  39'46'50			2436 Aug 07 20:20	0°  33'44	
	2435 Sep 02 22:03	0°  33'44		desc. node	2436 Aug 21 07:21	22°  07'35	
desc. node	2435 Sep 04 10:19	2°  20'14			2436 Aug 26 23:31	0°  33'44	
evening max el	2435 Sep 24 07:28	27°  47'11	26°36'21	evening max el	2436 Sep 05 19:32	11°  43'33	27°14'55
	2435 Sep 26 18:03	0°  33'44		retrograde	2436 Sep 19 05:34	18°  43'33	
retrograde	2435 Oct 07 05:45	5°  01'03		evening set	2436 Sep 26 05:21	15°  50'02	
evening set	2435 Oct 13 19:09	2°  20'24		min. Earth dist.	2436 Sep 30 00:31	12°  43'33	0.64777 AU
	2435 Oct 16 05:40	30°  37'39		inferior conj	2436 Oct 02 05:48	9°  48'32	-2°36'44
min. Earth dist.	2435 Oct 17 20:44	28°  09'17	0.66070 AU	minimum elong	2436 Oct 02 10:00	9°  36'58	2°35'13
inferior conj	2435 Oct 19 13:38	26°  47'03	-1°37'48	morning rise	2436 Oct 08 15:39	4°  18'21	
minimum elong	2435 Oct 19 16:16	25°  59'11	1°36'43	asc. node	2436 Oct 10 06:17	3°  47'23	
asc. node	2435 Oct 24 09:16	21°  09'20		direct	2436 Oct 11 07:03	3°  41'45	
morning rise	2435 Oct 25 14:00	20°  22'55		morning max el	2436 Oct 17 19:05	7°  09'45	18°01'56
direct	2435 Oct 28 12:20	19°  34'47			2436 Nov 02 04:13	0°  33'44	
morning max el	2435 Nov 04 03:40	23°  12'53	18°30'11	morning set	2436 Nov 04 12:05	3°  53'54	
	2435 Nov 09 15:37	0°  33'44		desc. node	2436 Nov 17 06:40	24°  53'11	
morning set	2435 Nov 24 05:00	22°  40'44					
	2435 Nov 28 19:00	0°  33'44					

superior conj	2436 Nov 18 07:44	26° \mathbb{M} 33'37	-0°07'05	direct	2437 Sep 24 19:51	17° \mathbb{M} 33'38	
minimum elong	2436 Nov 18 06:52	26° \mathbb{M} 30'08	0°06'57	asc. node	2437 Sep 27 03:19	17° \mathbb{M} 59'24	
behind sun begin	2436 Nov 17 21:14	25° \mathbb{M} 51'34		morning max el	2437 Oct 01 11:20	20° \mathbb{M} 59'37	17°51'17
behind sun end	2436 Nov 18 16:30	27° \mathbb{M} 08'39			2437 Oct 08 06:28	0° \mathbb{A}	
	2436 Nov 20 11:31	0° \mathbb{A}		morning set	2437 Oct 17 19:41	16° \mathbb{A} 17'50	
max. Earth dist.	2436 Nov 22 11:20	3° \mathbb{A} 09'20	1.44844 AU		2437 Oct 25 17:05	0° \mathbb{M}	
evening rise	2436 Dec 04 16:13	22° \mathbb{A} 10'36					
	2436 Dec 09 18:16	0° \mathbb{B}		superior conj	2437 Oct 29 15:33	6° \mathbb{M} 38'10	0°37'04
greatest brilliancy	2436 Dec 18 15:07	13° \mathbb{B} 25'07	-0.6m	minimum elong	2437 Oct 29 19:04	6° \mathbb{M} 52'54	0°36'35
evening max el	2436 Dec 30 15:44	29° \mathbb{B} 20'16	19°56'46	desc. node	2437 Nov 04 03:43	15° \mathbb{M} 40'34	
	2436 Dec 31 07:37	0° \mathbb{A}		max. Earth dist.	2437 Nov 05 03:49	17° \mathbb{M} 17'43	1.43820 AU
asc. node	2437 Jan 06 05:35	3° \mathbb{A} 40'35			2437 Nov 13 05:06	0° \mathbb{A}	
retrograde	2437 Jan 07 06:02	3° \mathbb{A} 46'19		evening rise	2437 Nov 14 00:47	1° \mathbb{A} 16'09	
evening set	2437 Jan 10 21:42	2° \mathbb{A} 28'21			2437 Dec 03 09:27	0° \mathbb{B}	
	2437 Jan 13 12:53	30° \mathbb{R} \mathbb{B}		evening max el	2437 Dec 13 15:48	12° \mathbb{B} 51'38	21°02'30
inferior conj	2437 Jan 16 08:18	26° \mathbb{B} 26'51	2°56'24	retrograde	2437 Dec 22 03:45	17° \mathbb{B} 53'45	
minimum elong	2437 Jan 16 05:44	26° \mathbb{B} 35'24	2°55'46	asc. node	2437 Dec 24 02:36	17° \mathbb{B} 32'37	
min. Earth dist.	2437 Jan 17 06:38	25° \mathbb{B} 12'12	0.66920 AU	evening set	2437 Dec 26 05:04	16° \mathbb{B} 20'40	
morning rise	2437 Jan 21 13:33	20° \mathbb{B} 13'27		inferior conj	2437 Dec 31 13:48	10° \mathbb{B} 08'15	2°20'12
direct	2437 Jan 27 11:52	17° \mathbb{B} 34'39		minimum elong	2437 Dec 31 11:17	10° \mathbb{B} 16'54	2°19'23
morning max el	2437 Feb 08 09:32	24° \mathbb{B} 40'55	25°13'25	min. Earth dist.	2437 Dec 31 23:35	9° \mathbb{B} 34'34	0.67576 AU
desc. node	2437 Feb 13 05:53	0° \mathbb{A} 02'57		morning rise	2438 Jan 05 17:19	3° \mathbb{B} 55'17	
	2437 Feb 13 04:53	0° \mathbb{A}		direct	2438 Jan 11 01:00	1° \mathbb{B} 35'21	
	2437 Mar 06 06:35	0° \mathbb{H}		morning max el	2438 Jan 21 17:57	7° \mathbb{B} 58'08	23°46'29
morning set	2437 Mar 16 14:45	17° \mathbb{H} 37'19		desc. node	2438 Jan 31 02:56	19° \mathbb{B} 05'08	
max. Earth dist.	2437 Mar 20 06:52	24° \mathbb{H} 21'13	1.36553 AU		2438 Feb 07 23:30	0° \mathbb{A}	
	2437 Mar 23 06:19	0° \mathbb{Y}		morning set	2438 Feb 26 05:09	28° \mathbb{A} 46'41	
					2438 Feb 26 22:16	0° \mathbb{H}	
superior conj	2437 Mar 26 10:11	6° \mathbb{Y} 10'11	-1°21'39	max. Earth dist.	2438 Mar 02 02:04	5° \mathbb{H} 30'26	1.38631 AU
minimum elong	2437 Mar 26 14:11	6° \mathbb{Y} 29'58	1°21'02				
evening rise	2437 Apr 03 16:07	22° \mathbb{Y} 47'27		superior conj	2438 Mar 09 10:57	18° \mathbb{H} 59'06	-1°44'57
asc. node	2437 Apr 04 04:52	23° \mathbb{Y} 51'40		minimum elong	2438 Mar 09 15:18	19° \mathbb{H} 19'39	1°44'30
	2437 Apr 07 07:20	0° \mathbb{B}			2438 Mar 15 04:26	0° \mathbb{Y}	
evening max el	2437 Apr 20 23:48	20° \mathbb{B} 54'01	19°40'35	evening rise	2438 Mar 18 13:00	6° \mathbb{Y} 33'43	
retrograde	2437 Apr 30 17:50	25° \mathbb{B} 36'55		asc. node	2438 Mar 22 01:55	13° \mathbb{Y} 23'26	
evening set	2437 May 02 18:12	25° \mathbb{B} 25'45			2438 Apr 01 05:05	0° \mathbb{B}	
inferior conj	2437 May 11 11:41	21° \mathbb{B} 22'58	0°12'37	evening max el	2438 Apr 03 22:28	3° \mathbb{B} 02'21	18°49'27
minimum elong	2437 May 11 12:14	21° \mathbb{B} 22'06	0°12'25	retrograde	2438 Apr 12 03:51	7° \mathbb{B} 02'42	
transit middle	2437 May 11 12:14	21° \mathbb{B} 22'06	0°12'25	evening set	2438 Apr 14 09:12	6° \mathbb{B} 46'18	
transit begin	2437 May 11 09:46	21° \mathbb{B} 25'59		inferior conj	2438 Apr 22 07:07	2° \mathbb{B} 26'56	1°51'22
transit end	2437 May 11 14:43	21° \mathbb{B} 18'13		minimum elong	2438 Apr 22 10:48	2° \mathbb{B} 20'15	1°50'14
desc. node	2437 May 12 05:04	20° \mathbb{B} 55'39		min. Earth dist.	2438 Apr 25 13:15	0° \mathbb{B} 05'52	0.57219 AU
min. Earth dist.	2437 May 13 20:50	19° \mathbb{B} 53'40	0.55670 AU		2438 Apr 25 16:39	30° \mathbb{R} \mathbb{Y}	
morning rise	2437 May 20 03:44	16° \mathbb{B} 48'25		desc. node	2438 Apr 29 02:05	27° \mathbb{Y} 55'18	
direct	2437 May 24 13:02	16° \mathbb{B} 05'25		morning rise	2438 Apr 30 09:16	27° \mathbb{Y} 18'13	
morning max el	2437 Jun 07 12:27	23° \mathbb{B} 05'40	24°35'20	direct	2438 May 05 19:41	26° \mathbb{Y} 06'39	
	2437 Jun 13 16:41	0° \mathbb{H}			2438 May 15 22:25	0° \mathbb{B}	
asc. node	2437 Jul 01 04:06	29° \mathbb{H} 32'41		morning max el	2438 May 20 03:36	3° \mathbb{B} 35'42	26°07'40
	2437 Jul 01 09:24	0° \mathbb{B}			2438 Jun 08 03:01	0° \mathbb{H}	
morning set	2437 Jul 02 23:54	3° \mathbb{B} 21'13		morning set	2438 Jun 17 11:05	18° \mathbb{H} 14'19	
				asc. node	2438 Jun 18 01:10	19° \mathbb{H} 28'49	
superior conj	2437 Jul 09 23:28	18° \mathbb{B} 27'15	1°21'00		2438 Jun 22 21:35	0° \mathbb{B}	
minimum elong	2437 Jul 09 21:06	18° \mathbb{B} 14'20	1°20'40				
max. Earth dist.	2437 Jul 11 14:36	21° \mathbb{B} 59'16	1.32934 AU	superior conj	2438 Jun 24 10:40	3° \mathbb{B} 23'56	1°02'56
	2437 Jul 15 09:05	0° \mathbb{B}		minimum elong	2438 Jun 24 08:24	3° \mathbb{B} 11'29	1°02'32
evening rise	2437 Jul 17 05:49	3° \mathbb{B} 50'36		max. Earth dist.	2438 Jun 25 00:33	4° \mathbb{B} 40'09	1.32348 AU
	2437 Jul 31 13:55	0° \mathbb{M}		evening rise	2438 Jul 01 10:08	18° \mathbb{B} 26'44	
desc. node	2437 Aug 08 04:23	11° \mathbb{M} 19'43			2438 Jul 07 04:56	0° \mathbb{B}	
evening max el	2437 Aug 19 05:54	24° \mathbb{M} 18'23	27°25'47	desc. node	2438 Jul 26 01:22	29° \mathbb{B} 42'16	
	2437 Aug 26 22:20	0° \mathbb{A}			2438 Jul 26 07:09	0° \mathbb{M}	
retrograde	2437 Sep 01 23:05	1° \mathbb{A} 35'28		evening max el	2438 Aug 01 12:00	6° \mathbb{M} 45'39	27°04'17
	2437 Sep 07 14:48	30° \mathbb{R} \mathbb{M}		retrograde	2438 Aug 15 09:15	13° \mathbb{M} 58'56	
evening set	2437 Sep 09 03:51	29° \mathbb{M} 00'46		evening set	2438 Aug 22 10:33	11° \mathbb{M} 45'30	
min. Earth dist.	2437 Sep 12 18:43	25° \mathbb{M} 56'48	0.63140 AU	min. Earth dist.	2438 Aug 26 02:16	9° \mathbb{M} 03'28	0.61223 AU
inferior conj	2437 Sep 15 12:17	23° \mathbb{M} 15'15	-3°33'05	inferior conj	2438 Aug 29 05:54	6° \mathbb{M} 19'15	-4°21'44
minimum elong	2437 Sep 15 17:36	23° \mathbb{M} 02'06	3°31'31	minimum elong	2438 Aug 29 11:07	6° \mathbb{M} 07'52	4°20'41
morning rise	2437 Sep 22 08:43	18° \mathbb{M} 02'16		morning rise	2438 Sep 05 13:23	1° \mathbb{M} 26'50	

direct	2438 Sep 07 23:08	1° \mathbb{M} 03'13		morning max el	2439 Aug 29 10:06	17° Ω 48'48	18°27'13
asc. node	2438 Sep 14 00:22	3° \mathbb{M} 38'26		asc. node	2439 Aug 31 21:25	20° Ω 30'29	
morning max el	2438 Sep 15 01:22	4° \mathbb{M} 35'17	17°59'16		2439 Sep 07 05:43	0° \mathbb{M}	
morning set	2438 Sep 30 21:24	29° \mathbb{M} 33'26		morning set	2439 Sep 14 12:02	13° \mathbb{M} 26'26	
	2438 Oct 01 03:10	0° Ω			2439 Sep 23 04:53	0° Ω	
superior conj	2438 Oct 11 02:17	18° Ω 01'39	1°10'31	superior conj	2439 Sep 23 12:14	0° Ω 34'04	1°32'05
minimum elong	2438 Oct 11 06:43	18° Ω 21'08	1°09'59	minimum elong	2439 Sep 23 15:28	0° Ω 49'01	1°31'49
	2438 Oct 18 02:20	0° \mathbb{M}		max. Earth dist.	2439 Sep 30 22:54	13° Ω 54'08	1.40276 AU
max. Earth dist.	2438 Oct 18 16:01	0° \mathbb{M} 56'49	1.42231 AU	evening rise	2439 Oct 05 07:32	21° Ω 17'44	
desc. node	2438 Oct 22 00:43	6° \mathbb{M} 27'13		desc. node	2439 Oct 08 21:42	27° Ω 10'07	
evening rise	2438 Oct 24 17:47	10° \mathbb{M} 48'01			2439 Oct 10 16:14	0° \mathbb{M}	
	2438 Nov 06 07:31	0° \mathbb{M}			2439 Oct 31 10:21	0° \mathbb{M}	
evening max el	2438 Nov 26 10:25	26° \mathbb{M} 24'05	22°17'52	evening max el	2439 Nov 09 00:48	9° \mathbb{M} 59'06	23°37'39
	2438 Nov 30 13:31	0° \mathbb{M}		retrograde	2439 Nov 19 17:02	16° \mathbb{M} 17'27	
retrograde	2438 Dec 05 23:51	2° \mathbb{M} 05'09		evening set	2439 Nov 24 18:52	14° \mathbb{M} 11'00	
evening set	2438 Dec 10 12:39	0° \mathbb{M} 15'36		asc. node	2439 Nov 27 20:39	10° \mathbb{M} 53'09	
asc. node	2438 Dec 10 23:37	29° \mathbb{M} 52'04		min. Earth dist.	2439 Nov 29 16:09	8° \mathbb{M} 29'08	0.67793 AU
	2438 Dec 10 20:02	30° \mathbb{M} 27'04		inferior conj	2439 Nov 30 04:28	7° \mathbb{M} 47'04	0°47'26
inferior conj	2438 Dec 15 21:07	23° \mathbb{M} 55'31	1°36'45	minimum elong	2439 Nov 30 03:22	7° \mathbb{M} 50'49	0°46'59
minimum elong	2438 Dec 15 19:06	24° \mathbb{M} 02'29	1°35'59	morning rise	2439 Dec 05 11:51	1° \mathbb{M} 40'30	
min. Earth dist.	2438 Dec 15 19:30	24° \mathbb{M} 01'07	0.67859 AU	direct	2439 Dec 09 14:20	0° \mathbb{M} 05'59	
morning rise	2438 Dec 21 01:26	17° \mathbb{M} 44'50		morning max el	2439 Dec 17 22:14	4° \mathbb{M} 55'27	20°57'20
direct	2438 Dec 25 18:08	15° \mathbb{M} 47'28		desc. node	2440 Jan 04 20:59	28° \mathbb{M} 43'52	
morning max el	2439 Jan 04 05:01	21° \mathbb{M} 21'42	22°18'31		2440 Jan 05 17:31	0° \mathbb{M}	
	2439 Jan 11 14:10	0° \mathbb{M}		morning set	2440 Jan 16 22:28	17° \mathbb{M} 05'47	
desc. node	2439 Jan 17 23:58	8° \mathbb{M} 41'56		max. Earth dist.	2440 Jan 25 02:47	0° \approx 08'17	1.42731 AU
	2439 Feb 01 06:36	0° \approx			2440 Jan 25 00:45	0° \approx	
morning set	2439 Feb 06 15:22	8° \approx 33'13					
max. Earth dist.	2439 Feb 11 23:07	17° \approx 21'50	1.40791 AU	superior conj	2440 Feb 01 02:33	11° \approx 45'05	-2°05'14
	2439 Feb 19 05:54	0° \mathbb{H}		minimum elong	2440 Feb 01 01:26	11° \approx 40'22	2°05'14
					2440 Feb 11 13:27	0° \mathbb{H}	
superior conj	2439 Feb 19 18:08	0° \mathbb{H} 54'37	-2°01'02	evening rise	2440 Feb 12 19:17	2° \mathbb{H} 13'17	
minimum elong	2439 Feb 19 21:04	1° \mathbb{H} 07'45	2°00'54	asc. node	2440 Feb 23 19:58	21° \mathbb{H} 11'15	
evening rise	2439 Mar 01 23:21	19° \mathbb{H} 45'04		evening max el	2440 Feb 29 15:57	28° \mathbb{H} 43'52	18°07'12
	2439 Mar 07 12:30	0° \mathbb{Y}			2440 Mar 02 01:54	0° \mathbb{Y}	
asc. node	2439 Mar 08 22:57	2° \mathbb{Y} 32'19		retrograde	2440 Mar 07 06:29	2° \mathbb{Y} 07'47	
evening max el	2439 Mar 18 04:55	15° \mathbb{Y} 41'41	18°18'25	evening set	2440 Mar 09 23:25	1° \mathbb{Y} 33'28	
retrograde	2439 Mar 25 09:04	19° \mathbb{Y} 15'57			2440 Mar 12 14:58	30° \mathbb{R} 11	
evening set	2439 Mar 27 20:30	18° \mathbb{Y} 51'25		inferior conj	2440 Mar 16 11:56	26° \mathbb{H} 32'47	3°31'41
inferior conj	2439 Apr 03 23:54	14° \mathbb{Y} 11'22	2°57'04	minimum elong	2440 Mar 16 13:46	26° \mathbb{H} 28'15	3°31'30
minimum elong	2439 Apr 04 03:28	14° \mathbb{Y} 03'45	2°56'19	min. Earth dist.	2440 Mar 19 14:30	23° \mathbb{H} 30'46	0.61400 AU
min. Earth dist.	2439 Apr 07 10:10	11° \mathbb{Y} 17'31	0.59245 AU	morning rise	2440 Mar 23 02:27	20° \mathbb{H} 38'00	
morning rise	2439 Apr 11 07:52	8° \mathbb{Y} 34'40		direct	2440 Mar 29 22:05	18° \mathbb{H} 16'47	
desc. node	2439 Apr 15 23:07	6° \mathbb{Y} 54'42		desc. node	2440 Apr 01 20:10	18° \mathbb{H} 40'47	
direct	2439 Apr 17 15:18	6° \mathbb{Y} 47'09		morning max el	2440 Apr 13 02:41	26° \mathbb{H} 12'06	27°47'44
morning max el	2439 May 01 23:55	14° \mathbb{Y} 33'15	27°15'09		2440 Apr 16 15:54	0° \mathbb{Y}	
	2439 May 14 09:52	0° \mathbb{B}			2440 May 06 22:17	0° \mathbb{B}	
	2439 May 31 09:23	0° \mathbb{H}		morning set	2440 May 16 00:38	17° \mathbb{B} 28'14	
morning set	2439 Jun 01 19:58	2° \mathbb{H} 58'46		asc. node	2440 May 21 19:15	29° \mathbb{B} 42'02	
asc. node	2439 Jun 04 22:13	9° \mathbb{H} 33'25			2440 May 21 22:33	0° \mathbb{H}	
				max. Earth dist.	2440 May 21 23:19	0° \mathbb{H} 04'10	1.32333 AU
superior conj	2439 Jun 08 22:25	18° \mathbb{H} 19'21	0°41'13				
minimum elong	2439 Jun 08 20:43	18° \mathbb{H} 09'57	0°40'53	superior conj	2440 May 23 09:01	3° \mathbb{H} 07'52	0°16'33
max. Earth dist.	2439 Jun 08 12:46	17° \mathbb{H} 26'12	1.32144 AU	minimum elong	2440 May 23 08:16	3° \mathbb{H} 03'43	0°16'23
	2439 Jun 14 06:34	0° \mathbb{B}		evening rise	2440 May 30 06:13	18° \mathbb{H} 05'25	
evening rise	2439 Jun 15 18:57	3° \mathbb{B} 14'02			2440 Jun 05 02:46	0° \mathbb{B}	
	2439 Jun 30 03:04	0° Ω		evening max el	2440 Jun 25 03:25	29° \mathbb{B} 21'24	24°48'53
desc. node	2439 Jul 12 22:22	16° Ω 54'53			2440 Jun 25 19:50	0° Ω	
evening max el	2439 Jul 14 11:14	18° Ω 26'18	26°10'01	desc. node	2440 Jun 28 19:24	2° Ω 28'51	
retrograde	2439 Jul 28 10:52	25° Ω 36'40		retrograde	2440 Jul 09 02:18	6° Ω 25'48	
evening set	2439 Aug 03 20:46	23° Ω 56'23		evening set	2440 Jul 14 07:08	5° Ω 24'20	
min. Earth dist.	2439 Aug 07 23:55	21° Ω 20'28	0.59156 AU	min. Earth dist.	2440 Jul 19 14:44	2° Ω 35'44	0.57192 AU
inferior conj	2439 Aug 11 07:05	18° Ω 51'06	-4°54'22	inferior conj	2440 Jul 22 12:42	0° Ω 40'56	-4°58'20
minimum elong	2439 Aug 11 09:59	18° Ω 45'35	4°54'06	minimum elong	2440 Jul 22 10:42	0° Ω 44'13	4°58'14
morning rise	2439 Aug 19 01:22	14° Ω 21'44			2440 Jul 23 13:43	30° \mathbb{R} 11	
direct	2439 Aug 21 12:26	14° Ω 01'03		morning rise	2440 Jul 30 16:56	26° \mathbb{B} 33'26	

direct	2440 Aug 02 07:26	26°☿14'14		retrograde	2441 Jun 20 05:16	16°☿36'11	
	2440 Aug 10 21:11	0°♊		evening set	2441 Jun 23 21:51	16°☿06'19	
morning max el	2440 Aug 11 10:22	0°♊29'58	19°16'16	min. Earth dist.	2441 Jul 01 02:44	12°☿50'30	0.55679 AU
asc. node	2440 Aug 17 18:28	8°♊19'41		inferior conj	2441 Jul 02 22:36	11°☿46'12	-4°19'20
morning set	2440 Aug 28 11:40	27°♊45'20		minimum elong	2441 Jul 02 15:32	11°☿56'34	4°17'57
	2440 Aug 29 14:40	0°♋		morning rise	2441 Jul 11 11:44	7°☿52'35	
				direct	2441 Jul 14 07:28	7°☿33'21	
superior conj	2440 Sep 05 15:43	13°♋58'21	1°43'04	morning max el	2441 Jul 24 23:41	12°☿30'12	20°26'34
minimum elong	2440 Sep 05 17:06	14°♋05'05	1°43'01	asc. node	2441 Aug 04 15:32	26°☿53'07	
max. Earth dist.	2440 Sep 12 02:35	26°♋08'48	1.38211 AU		2441 Aug 06 09:32	0°♌	
	2440 Sep 14 05:51	0°♌		morning set	2441 Aug 12 17:22	12°♌22'24	
evening rise	2440 Sep 15 21:13	2°♌53'55					
desc. node	2440 Sep 24 18:43	17°♌44'46		superior conj	2441 Aug 20 07:47	28°♌00'16	1°45'14
	2440 Oct 02 19:44	0°♍		minimum elong	2441 Aug 20 07:29	27°♌58'43	1°45'15
evening max el	2440 Oct 21 13:03	23°♍37'30	24°55'33		2441 Aug 21 07:29	0°♎	
	2440 Oct 30 15:34	0°♎		max. Earth dist.	2441 Aug 25 08:54	8°♎00'51	1.36289 AU
retrograde	2440 Nov 02 06:16	0°♎25'54		evening rise	2441 Aug 29 08:09	15°♎30'26	
	2440 Nov 04 17:25	30°♎			2441 Sep 06 14:50	0°♏	
evening set	2440 Nov 07 22:03	28°♎03'34		desc. node	2441 Sep 11 15:44	8°♏06'13	
min. Earth dist.	2440 Nov 12 11:09	22°♎55'40	0.67390 AU		2441 Sep 27 09:24	0°♐	
inferior conj	2440 Nov 13 10:05	21°♎40'04	-0°06'33	evening max el	2441 Oct 04 01:10	7°♐17'53	26°04'11
minimum elong	2440 Nov 13 10:15	21°♎39'32	0°06'28	retrograde	2441 Oct 16 14:38	14°♐25'25	
transit middle	2440 Nov 13 10:15	21°♎39'32	0°06'28	evening set	2441 Oct 22 20:24	11°♐50'13	
transit begin	2440 Nov 13 07:43	21°♎47'54		min. Earth dist.	2441 Oct 27 02:09	7°♐17'49	0.66650 AU
transit end	2440 Nov 13 12:47	21°♎31'11		inferior conj	2441 Oct 28 12:09	5°♐31'49	-1°03'52
asc. node	2440 Nov 13 17:42	21°♎15'01		minimum elong	2441 Oct 28 13:50	5°♐26'33	1°03'09
morning rise	2440 Nov 18 22:36	15°♎39'54		asc. node	2441 Oct 31 14:45	1°♐54'25	
direct	2440 Nov 22 12:30	14°♎26'03			2441 Nov 02 19:39	30°♑	
morning max el	2440 Nov 29 23:12	18°♎39'48	19°48'10	morning rise	2441 Nov 03 07:40	29°♑40'42	
	2440 Dec 08 23:27	0°♑		direct	2441 Nov 06 11:03	28°♑44'12	
greatest brilliancy	2440 Dec 13 22:51	7°♑15'15	-0.7m		2441 Nov 10 06:07	0°♒	
desc. node	2440 Dec 21 18:01	19°♑03'32		morning max el	2441 Nov 13 07:26	2°♒32'32	18°53'56
morning set	2440 Dec 25 18:28	25°♑14'30			2441 Dec 02 12:19	0°♓	
	2440 Dec 28 20:11	0°♓		morning set	2441 Dec 05 04:41	4°♓12'40	
max. Earth dist.	2441 Jan 06 13:36	13°♓42'27	1.44200 AU	desc. node	2441 Dec 08 15:02	9°♓35'51	
				max. Earth dist.	2441 Dec 20 06:04	27°♓50'19	1.45031 AU
superior conj	2441 Jan 11 08:46	21°♓24'19	-1°52'34				
minimum elong	2441 Jan 11 02:05	20°♓57'18	1°52'07	superior conj	2441 Dec 21 16:47	0°♓06'53	-1°20'44
	2441 Jan 16 14:53	0°♔		minimum elong	2441 Dec 21 07:56	29°♓32'06	1°19'47
evening rise	2441 Jan 24 20:23	13°♔49'31			2441 Dec 21 15:02	0°♕	
	2441 Feb 03 11:07	0°♕		evening rise	2442 Jan 05 22:57	24°♕28'08	
asc. node	2441 Feb 09 17:00	9°♕10'57			2442 Jan 09 08:45	0°♖	
evening max el	2441 Feb 12 04:37	12°♕01'05	18°15'15	evening max el	2442 Jan 26 16:10	25°♖26'20	18°41'35
retrograde	2441 Feb 18 15:28	15°♕28'14		asc. node	2442 Jan 27 14:03	26°♖19'19	
evening set	2441 Feb 21 13:45	14°♕43'02		retrograde	2442 Feb 02 07:52	29°♖08'30	
inferior conj	2441 Feb 27 15:10	9°♕22'54	3°42'02	evening set	2442 Feb 05 12:00	22°♖11'22	
minimum elong	2441 Feb 27 15:06	9°♕23'04	3°42'02	inferior conj	2442 Feb 11 05:37	22°♖33'21	3°34'23
min. Earth dist.	2441 Mar 02 03:58	6°♕35'32	0.63403 AU	minimum elong	2442 Feb 11 04:07	22°♖37'55	3°34'12
morning rise	2441 Mar 05 15:33	3°♕18'09		min. Earth dist.	2442 Feb 13 02:48	20°♖16'36	0.65087 AU
direct	2441 Mar 12 13:51	0°♕34'18		morning rise	2442 Feb 16 19:47	16°♖23'24	
desc. node	2441 Mar 19 17:13	2°♕58'08		direct	2442 Feb 23 12:44	13°♖31'39	
morning max el	2441 Mar 26 10:13	8°♕30'45	27°42'54	desc. node	2442 Mar 06 14:16	19°♖10'55	
	2441 Apr 12 01:13	0°♙		morning max el	2442 Mar 08 19:46	21°♖18'31	27°04'13
	2441 Apr 29 03:36	0°♚			2442 Mar 16 09:17	0°♗	
morning set	2441 Apr 29 22:49	1°♚35'32			2442 Apr 05 04:52	0°♘	
max. Earth dist.	2441 May 05 04:16	12°♚21'22	1.32940 AU	morning set	2442 Apr 13 11:25	15°♘10'00	
				max. Earth dist.	2442 Apr 17 23:49	24°♘06'53	1.33994 AU
superior conj	2441 May 07 16:45	17°♚44'00	-0°10'19		2442 Apr 20 20:28	0°♙	
minimum elong	2441 May 07 17:15	17°♚46'43	0°10'13				
behind sun begin	2441 May 07 13:10	17°♚24'43		superior conj	2442 Apr 21 19:28	2°♙00'10	-0°38'25
behind sun end	2441 May 07 21:21	18°♚08'43		minimum elong	2442 Apr 21 21:26	2°♙10'25	0°38'01
asc. node	2441 May 08 16:18	19°♚50'48		asc. node	2442 Apr 25 13:20	9°♙54'53	
	2441 May 13 09:12	0°♜		evening rise	2442 Apr 29 04:32	17°♙35'10	
evening rise	2441 May 14 18:04	2°♜54'54			2442 May 05 09:34	0°♞	
	2441 May 29 14:17	0°♞		evening max el	2442 May 19 11:30	20°♞26'49	21°39'53
evening max el	2441 Jun 06 17:04	9°♞51'34	23°13'46	retrograde	2442 May 31 20:41	26°♞31'41	
desc. node	2441 Jun 15 16:26	15°♞49'22		desc. node	2442 Jun 02 13:29	26°♞25'06	

evening set	2442 Jun 03 08:51	26° Π 17'31		evening set	2443 May 14 10:52	6° Π 35'08	
inferior conj	2442 Jun 12 18:35	22° Π 15'54	-2°52'13	desc. node	2443 May 20 10:31	4° Π 22'51	
minimum elong	2442 Jun 12 11:09	22° Π 26'18	2°49'52	inferior conj	2443 May 23 13:36	2° Π 36'48	-0°54'59
min. Earth dist.	2442 Jun 12 14:20	22° Π 21'51	0.54934 AU	minimum elong	2443 May 23 11:01	2° Π 40'36	0°54'02
morning rise	2442 Jun 21 14:27	18° Π 21'04		min. Earth dist.	2443 May 25 02:55	1° Π 42'05	0.55135 AU
direct	2442 Jun 24 19:01	17° Π 58'45			2443 May 28 05:34	30° \mathcal{R} 8	
morning max el	2442 Jul 07 01:29	23° Π 45'28	21°55'49	morning rise	2443 Jun 01 09:52	28° \mathcal{B} 21'18	
	2442 Jul 12 15:02	0° \mathcal{E}		direct	2443 Jun 05 06:17	27° \mathcal{B} 49'15	
asc. node	2442 Jul 22 12:35	15° \mathcal{E} 59'35			2443 Jun 12 22:24	0° Π	
morning set	2442 Jul 28 02:53	27° \mathcal{E} 11'05		morning max el	2443 Jun 18 18:43	4° Π 24'57	23°36'53
	2442 Jul 29 11:07	0° \mathcal{O}			2443 Jul 06 13:54	0° \mathcal{E}	
				asc. node	2443 Jul 09 09:37	5° \mathcal{E} 30'39	
superior conj	2442 Aug 04 08:35	12° \mathcal{O} 28'08	1°40'16	morning set	2443 Jul 12 14:20	12° \mathcal{E} 05'53	
minimum elong	2442 Aug 04 07:03	12° \mathcal{O} 20'06	1°40'11				
max. Earth dist.	2442 Aug 07 23:07	19° \mathcal{O} 56'01	1.34676 AU	superior conj	2443 Jul 19 15:10	27° \mathcal{E} 13'05	1°29'28
evening rise	2442 Aug 12 11:42	28° \mathcal{O} 54'47		minimum elong	2443 Jul 19 12:57	27° \mathcal{E} 01'09	1°29'13
	2442 Aug 13 01:17	0° \mathcal{M}			2443 Jul 20 22:17	0° \mathcal{O}	
desc. node	2442 Aug 29 12:47	28° \mathcal{M} 08'07		max. Earth dist.	2443 Jul 21 22:33	2° \mathcal{O} 09'13	1.33451 AU
	2442 Aug 30 18:48	0° \mathcal{L}		evening rise	2443 Jul 27 03:33	12° \mathcal{O} 54'57	
evening max el	2442 Sep 16 13:41	20° \mathcal{L} 53'23	26°55'52		2443 Aug 05 06:16	0° \mathcal{M}	
retrograde	2442 Sep 29 17:32	28° \mathcal{L} 09'34		desc. node	2443 Aug 16 09:49	17° \mathcal{M} 41'38	
evening set	2442 Oct 06 11:46	25° \mathcal{L} 27'03			2443 Aug 26 00:17	0° \mathcal{L}	
min. Earth dist.	2442 Oct 10 10:38	21° \mathcal{L} 31'08	0.65561 AU	evening max el	2443 Aug 30 01:18	4° \mathcal{L} 11'51	27°23'18
inferior conj	2442 Oct 12 08:36	19° \mathcal{L} 18'22	-2°02'53	retrograde	2443 Sep 12 14:27	11° \mathcal{L} 29'43	
minimum elong	2442 Oct 12 11:56	19° \mathcal{L} 08'45	2°01'34	evening set	2443 Sep 19 17:23	8° \mathcal{L} 48'34	
asc. node	2442 Oct 18 11:48	13° \mathcal{L} 40'48		min. Earth dist.	2443 Sep 23 10:20	5° \mathcal{L} 27'32	0.64120 AU
morning rise	2442 Oct 18 12:48	13° \mathcal{L} 39'31		inferior conj	2443 Sep 25 20:58	2° \mathcal{L} 53'46	-3°01'15
direct	2442 Oct 21 07:58	12° \mathcal{L} 56'36		minimum elong	2443 Sep 26 01:45	2° \mathcal{L} 41'12	2°59'38
morning max el	2442 Oct 27 20:57	16° \mathcal{L} 29'16	18°16'04		2443 Sep 28 19:05	30° \mathcal{R} 11	
	2442 Nov 06 18:22	0° \mathcal{M}		morning rise	2443 Oct 02 11:13	27° \mathcal{M} 30'36	
morning set	2442 Nov 15 19:19	14° \mathcal{M} 37'46		direct	2443 Oct 05 00:35	26° \mathcal{M} 57'40	
	2442 Nov 25 07:49	0° \mathcal{J}		asc. node	2443 Oct 05 08:51	26° \mathcal{M} 58'16	
desc. node	2442 Nov 25 12:04	0° \mathcal{J} 16'56			2443 Oct 11 03:24	0° \mathcal{L}	
				morning max el	2443 Oct 11 13:04	0° \mathcal{L} 23'29	17°55'16
superior conj	2442 Nov 30 18:56	8° \mathcal{J} 40'00	-0°35'05	morning set	2443 Oct 28 13:34	26° \mathcal{L} 23'04	
minimum elong	2442 Nov 30 14:25	8° \mathcal{J} 22'11	0°34'28		2443 Oct 30 16:27	0° \mathcal{M}	
max. Earth dist.	2442 Dec 03 01:30	12° \mathcal{J} 14'49	1.45126 AU				
	2442 Dec 14 09:49	0° \mathcal{Z}		superior conj	2443 Nov 10 12:08	18° \mathcal{M} 00'51	0°12'43
evening rise	2442 Dec 17 02:43	4° \mathcal{Z} 13'18		minimum elong	2443 Nov 10 13:34	18° \mathcal{M} 06'40	0°12'32
greatest brilliancy	2442 Dec 28 16:24	22° \mathcal{Z} 10'45	-0.7m	behind sun begin	2443 Nov 10 07:07	17° \mathcal{M} 40'29	
	2443 Jan 02 22:55	0° \mathcal{A}		behind sun end	2443 Nov 10 20:00	18° \mathcal{M} 32'49	
evening max el	2443 Jan 10 00:23	8° \mathcal{A} 55'38	19°24'51	desc. node	2443 Nov 12 09:05	21° \mathcal{M} 02'41	
asc. node	2443 Jan 14 11:06	12° \mathcal{A} 22'52		max. Earth dist.	2443 Nov 15 20:08	26° \mathcal{M} 34'51	1.44485 AU
retrograde	2443 Jan 17 04:23	13° \mathcal{A} 03'01			2443 Nov 17 23:58	0° \mathcal{J}	
evening set	2443 Jan 20 15:30	11° \mathcal{A} 52'51		evening rise	2443 Nov 26 14:11	13° \mathcal{J} 22'33	
inferior conj	2443 Jan 26 04:00	5° \mathcal{A} 59'04	3°13'19		2443 Dec 07 12:58	0° \mathcal{Z}	
minimum elong	2443 Jan 26 01:39	6° \mathcal{A} 06'40	3°12'51	evening max el	2443 Dec 24 03:34	22° \mathcal{Z} 25'41	20°23'12
min. Earth dist.	2443 Jan 27 10:10	4° \mathcal{A} 21'07	0.66373 AU	retrograde	2444 Jan 01 02:23	27° \mathcal{Z} 06'31	
morning rise	2443 Jan 31 11:35	29° \mathcal{Z} 46'30		asc. node	2444 Jan 01 08:08	27° \mathcal{Z} 06'12	
	2443 Jan 31 05:42	30° \mathcal{R} 3		evening set	2444 Jan 04 21:59	25° \mathcal{Z} 42'07	
direct	2443 Feb 06 17:38	27° \mathcal{Z} 00'14		inferior conj	2444 Jan 10 07:33	19° \mathcal{Z} 35'19	2°42'00
	2443 Feb 14 04:41	0° \mathcal{A}		minimum elong	2444 Jan 10 04:57	19° \mathcal{Z} 44'09	2°41'17
morning max el	2443 Feb 19 05:16	4° \mathcal{A} 24'44	25°59'07	min. Earth dist.	2444 Jan 11 00:16	18° \mathcal{Z} 38'34	0.67247 AU
desc. node	2443 Feb 21 11:18	6° \mathcal{A} 47'25		morning rise	2444 Jan 15 11:44	13° \mathcal{Z} 21'57	
	2443 Mar 10 19:20	0° \mathcal{H}		direct	2444 Jan 21 03:51	10° \mathcal{Z} 50'49	
morning set	2443 Mar 27 10:27	28° \mathcal{H} 00'09		morning max el	2444 Feb 01 13:54	17° \mathcal{Z} 39'40	24°37'12
	2443 Mar 28 12:13	0° \mathcal{Y}		desc. node	2444 Feb 08 08:19	25° \mathcal{Z} 23'06	
max. Earth dist.	2443 Mar 31 08:00	5° \mathcal{Y} 22'01	1.35507 AU		2444 Feb 11 21:56	0° \mathcal{A}	
					2444 Mar 02 20:22	0° \mathcal{H}	
superior conj	2443 Apr 05 14:44	15° \mathcal{Y} 49'21	-1°06'22	morning set	2444 Mar 08 14:36	9° \mathcal{H} 51'06	
minimum elong	2443 Apr 05 18:06	16° \mathcal{Y} 06'24	1°05'46	max. Earth dist.	2444 Mar 12 06:20	16° \mathcal{H} 24'13	1.37415 AU
asc. node	2443 Apr 12 10:23	29° \mathcal{Y} 50'14					
	2443 Apr 12 12:17	0° \mathcal{B}		superior conj	2444 Mar 18 23:22	29° \mathcal{H} 02'47	-1°32'10
evening rise	2443 Apr 13 11:41	2° \mathcal{B} 00'06		minimum elong	2444 Mar 19 03:40	29° \mathcal{H} 23'41	1°31'36
	2443 Apr 30 04:36	0° Π			2444 Mar 19 11:08	0° \mathcal{Y}	
evening max el	2443 May 01 16:23	1° Π 32'38	20°18'47	evening rise	2444 Mar 27 13:07	16° \mathcal{Y} 02'39	
retrograde	2443 May 12 10:10	6° Π 45'30		asc. node	2444 Mar 29 07:26	19° \mathcal{Y} 32'09	

	2444 Apr 03 21:01	0°♄		evening max el	2445 Mar 27 11:25	25°♄41'29	18°33'48
evening max el	2444 Apr 13 09:01	13°♄18'44	19°16'16	retrograde	2445 Apr 04 04:46	29°♄28'49	
retrograde	2444 Apr 22 10:32	17°♄42'13		evening set	2445 Apr 06 12:35	29°♄09'22	
evening set	2444 Apr 24 12:24	17°♄29'21		inferior conj	2445 Apr 14 02:20	24°♄41'42	2°23'20
inferior conj	2444 May 02 21:44	13°♄20'06	0°58'14	minimum elong	2445 Apr 14 06:16	24°♄34'00	2°22'18
minimum elong	2444 May 03 00:03	13°♄16'14	0°57'26	min. Earth dist.	2445 Apr 17 12:12	22°♄03'30	0.58039 AU
min. Earth dist.	2444 May 05 17:49	11°♄27'11	0.56244 AU	morning rise	2445 Apr 21 20:52	19°♄19'34	
desc. node	2444 May 06 07:31	11°♄05'24		desc. node	2445 Apr 23 04:33	18°♄45'07	
morning rise	2444 May 11 08:43	8°♄30'37		direct	2445 Apr 27 17:03	17°♄52'52	
direct	2444 May 16 04:23	7°♄37'07		morning max el	2445 May 12 02:14	25°♄31'20	26°40'08
morning max el	2444 May 30 09:09	14°♄51'29	25°16'54		2445 May 16 06:19	0°♄	
	2444 Jun 11 10:20	0°♄			2445 Jun 04 14:53	0°♄	
asc. node	2444 Jun 25 06:40	25°♄19'40		morning set	2445 Jun 10 12:31	11°♄52'02	
morning set	2444 Jun 26 02:06	27°♄01'45		asc. node	2445 Jun 12 03:43	15°♄20'02	
	2444 Jun 27 11:35	0°♄					
superior conj	2444 Jul 03 01:18	12°♄08'04	1°13'50	superior conj	2445 Jun 17 12:57	27°♄05'17	0°54'09
minimum elong	2444 Jul 02 22:54	11°♄55'00	1°13'27	minimum elong	2445 Jun 17 10:53	26°♄53'50	0°53'45
max. Earth dist.	2444 Jul 04 05:29	14°♄41'54	1.32631 AU	max. Earth dist.	2445 Jun 17 16:40	27°♄25'41	1.32208 AU
evening rise	2444 Jul 10 04:11	27°♄20'59			2445 Jun 18 20:43	0°♄	
	2444 Jul 11 11:20	0°♄		evening rise	2445 Jun 24 10:42	12°♄02'53	
	2444 Jul 28 13:51	0°♄			2445 Jul 03 15:16	0°♄	
desc. node	2444 Aug 02 06:50	6°♄35'08		desc. node	2445 Jul 20 03:50	24°♄31'02	
evening max el	2444 Aug 11 09:56	17°♄01'02	27°20'42	evening max el	2445 Jul 24 13:14	29°♄08'52	26°45'02
retrograde	2444 Aug 25 05:03	24°♄17'09			2445 Jul 25 11:21	0°♄	
evening set	2444 Sep 01 09:45	21°♄49'27		retrograde	2445 Aug 07 12:09	6°♄21'40	
min. Earth dist.	2444 Sep 04 23:53	18°♄56'43	0.62351 AU	evening set	2445 Aug 14 08:20	4°♄21'05	
inferior conj	2444 Sep 07 22:23	16°♄11'50	-3°55'07	min. Earth dist.	2445 Aug 18 03:09	1°♄43'43	0.60345 AU
minimum elong	2444 Sep 08 03:53	15°♄58'58	3°53'41		2445 Aug 20 06:04	30°♄	
morning rise	2444 Sep 14 23:33	11°♄07'36		inferior conj	2445 Aug 21 09:26	29°♄03'13	-4°38'13
direct	2444 Sep 17 09:43	10°♄41'29		minimum elong	2445 Aug 21 14:00	28°♄53'48	4°37'30
asc. node	2444 Sep 21 05:52	11°♄48'58		morning rise	2445 Aug 28 21:37	24°♄20'30	
morning max el	2444 Sep 24 04:50	14°♄08'50	17°52'24	direct	2445 Aug 31 07:25	23°♄58'31	
	2444 Oct 05 01:41	0°♄		morning max el	2445 Sep 07 17:02	27°♄36'17	18°08'37
morning set	2444 Oct 10 05:34	9°♄10'48		asc. node	2445 Sep 08 02:54	28°♄00'43	
					2445 Sep 09 21:42	0°♄	
superior conj	2444 Oct 21 07:36	28°♄39'50	0°52'42	morning set	2445 Sep 23 13:20	22°♄43'26	
minimum elong	2444 Oct 21 11:54	28°♄58'05	0°52'08		2445 Sep 27 10:30	0°♄	
	2444 Oct 22 02:29	0°♄		superior conj	2445 Oct 03 04:52	10°♄34'09	1°21'04
max. Earth dist.	2444 Oct 28 10:43	10°♄31'29	1.43197 AU	minimum elong	2445 Oct 03 08:57	10°♄52'29	1°20'37
desc. node	2444 Oct 29 06:07	11°♄50'10		max. Earth dist.	2445 Oct 10 19:59	23°♄51'07	1.41427 AU
evening rise	2444 Nov 05 00:16	22°♄33'41			2445 Oct 14 12:51	0°♄	
	2444 Nov 09 20:09	0°♄		evening rise	2445 Oct 16 01:06	2°♄27'22	
	2444 Nov 30 21:11	0°♄		desc. node	2445 Oct 16 03:08	2°♄35'38	
evening max el	2444 Dec 06 01:06	5°♄56'35	21°33'36		2445 Nov 03 05:51	0°♄	
retrograde	2444 Dec 14 23:44	11°♄15'48		evening max el	2445 Nov 18 17:42	19°♄29'49	22°51'43
asc. node	2444 Dec 18 05:09	10°♄18'38		retrograde	2445 Nov 28 18:48	25°♄27'36	
evening set	2444 Dec 19 05:39	9°♄35'52		evening set	2445 Dec 03 12:50	23°♄31'07	
inferior conj	2444 Dec 24 14:04	3°♄19'29	2°02'33	asc. node	2445 Dec 05 02:09	22°♄01'34	
minimum elong	2444 Dec 24 11:43	3°♄27'38	2°01'45	inferior conj	2445 Dec 08 21:38	17°♄08'55	1°16'30
min. Earth dist.	2444 Dec 24 18:52	3°♄02'51	0.67736 AU	minimum elong	2445 Dec 08 19:58	17°♄14'41	1°15'50
	2444 Dec 27 01:30	30°♄		min. Earth dist.	2445 Dec 08 15:30	17°♄30'07	0.67866 AU
morning rise	2444 Dec 29 17:37	27°♄07'03		morning rise	2445 Dec 14 02:58	10°♄59'28	
direct	2445 Jan 03 18:46	24°♄56'35		direct	2445 Dec 18 13:29	9°♄11'46	
	2445 Jan 12 22:50	0°♄		morning max el	2445 Dec 27 12:19	14°♄26'27	21°42'45
morning max el	2445 Jan 13 23:06	0°♄59'30	23°08'39		2446 Jan 08 22:34	0°♄	
desc. node	2445 Jan 25 05:21	14°♄41'12		desc. node	2446 Jan 12 02:23	4°♄29'43	
	2445 Feb 04 20:36	0°♄		morning set	2446 Jan 28 15:28	29°♄38'48	
morning set	2445 Feb 17 17:36	20°♄26'41			2446 Jan 28 20:47	0°♄	
max. Earth dist.	2445 Feb 22 01:07	27°♄46'47	1.39553 AU	max. Earth dist.	2446 Feb 04 00:11	9°♄59'37	1.41653 AU
	2445 Feb 23 07:44	0°♄					
superior conj	2445 Mar 01 17:16	11°♄30'17	-1°52'54	superior conj	2446 Feb 11 15:28	23°♄00'06	-2°04'36
minimum elong	2445 Mar 01 21:18	11°♄48'54	1°52'36	minimum elong	2446 Feb 11 17:01	23°♄06'53	2°04'34
evening rise	2445 Mar 11 05:59	29°♄35'08			2446 Feb 15 14:16	0°♄	
	2445 Mar 11 11:09	0°♄		evening rise	2446 Feb 22 10:44	12°♄29'20	
asc. node	2445 Mar 16 04:28	8°♄54'59		asc. node	2446 Mar 03 01:30	27°♄52'27	
					2446 Mar 04 08:52	0°♄	

evening max el	2446 Mar 10 20:21	8° Υ 32'38	18°11'20	asc. node	2447 Feb 17 22:33	16° X 15'52	
retrograde	2446 Mar 17 17:14	12° Υ 00'17		evening max el	2447 Feb 22 08:29	21° X 42'10	18°08'22
evening set	2446 Mar 20 07:10	11° Υ 31'42		retrograde	2447 Feb 28 20:09	25° X 05'39	
inferior conj	2446 Mar 27 03:47	6° Υ 43'05	3°15'07	evening set	2447 Mar 03 15:28	24° X 26'38	
minimum elong	2446 Mar 27 06:43	6° Υ 36'26	3°14'39	inferior conj	2447 Mar 09 22:47	19° X 17'20	3°38'37
min. Earth dist.	2446 Mar 30 12:02	3° Υ 42'36	0.60166 AU	minimum elong	2447 Mar 09 23:47	19° X 14'43	3°38'34
morning rise	2446 Apr 03 04:04	0° Υ 57'46		min. Earth dist.	2447 Mar 12 19:51	16° X 19'29	0.62286 AU
	2446 Apr 04 23:11	30° R X		morning rise	2447 Mar 16 06:52	13° X 17'51	
direct	2446 Apr 09 18:09	28° X 54'45		direct	2447 Mar 23 04:48	10° X 45'34	
desc. node	2446 Apr 10 01:34	28° X 55'01		desc. node	2447 Mar 27 22:36	11° X 49'02	
	2446 Apr 14 17:50	0° Υ		morning max el	2447 Apr 06 06:08	18° X 41'24	27°50'10
morning max el	2446 Apr 24 01:11	6° Υ 45'35	27°33'27		2447 Apr 15 19:14	0° Υ	
	2446 May 11 12:49	0° B			2447 May 04 08:41	0° B	
morning set	2446 May 25 19:51	26° B 31'00		morning set	2447 May 09 22:05	10° B 51'48	
	2446 May 27 11:44	0° II		max. Earth dist.	2447 May 15 13:23	22° B 40'52	1.32547 AU
asc. node	2446 May 30 00:46	5° II 27'04		asc. node	2447 May 16 21:50	25° B 36'12	
max. Earth dist.	2446 Jun 01 04:36	10° II 09'45	1.32180 AU				
				superior conj	2447 May 17 10:05	26° B 42'42	0°05'24
superior conj	2446 Jun 02 00:28	11° II 58'51	0°31'06	minimum elong	2447 May 17 09:50	26° B 41'19	0°05'21
minimum elong	2446 Jun 01 23:07	11° II 51'27	0°30'49	behind sun begin	2447 May 17 04:56	26° B 14'44	
evening rise	2446 Jun 08 20:50	26° II 53'08		behind sun end	2447 May 17 14:44	27° B 07'55	
	2446 Jun 10 08:26	0° E			2447 May 18 22:19	0° II	
	2446 Jun 27 11:48	0° Ω		evening rise	2447 May 24 08:36	11° II 44'41	
evening max el	2446 Jul 06 09:31	10° Ω 29'50	25°38'10		2447 Jun 02 15:41	0° E	
desc. node	2446 Jul 07 00:51	11° Ω 05'45		evening max el	2447 Jun 17 23:57	21° E 11'18	24°09'09
retrograde	2446 Jul 20 09:38	17° Ω 37'53		desc. node	2447 Jun 23 21:52	25° E 47'44	
evening set	2446 Jul 26 08:30	16° Ω 14'28		retrograde	2447 Jul 01 19:27	28° E 08'48	
min. Earth dist.	2446 Jul 30 21:43	13° Ω 35'01	0.58294 AU	evening set	2447 Jul 06 09:18	27° E 22'21	
inferior conj	2446 Aug 03 02:36	11° Ω 18'21	-5°00'25	min. Earth dist.	2447 Jul 12 10:40	24° E 23'53	0.56481 AU
minimum elong	2446 Aug 03 03:41	11° Ω 16'25	5°00'23	inferior conj	2447 Jul 14 23:37	22° E 49'15	-4°47'44
morning rise	2446 Aug 11 01:12	6° Ω 58'17		minimum elong	2447 Jul 14 19:12	22° E 56'08	4°47'14
direct	2446 Aug 13 13:29	6° Ω 38'21		morning rise	2447 Jul 23 07:46	18° E 49'04	
morning max el	2446 Aug 21 22:28	10° Ω 36'45	18°45'21	direct	2447 Jul 26 00:32	18° E 29'55	
asc. node	2446 Aug 25 23:58	15° Ω 18'35		morning max el	2447 Aug 04 18:14	23° E 01'12	19°43'36
	2446 Sep 03 19:24	0° M			2447 Aug 10 14:34	0° Ω	
morning set	2446 Sep 07 08:12	6° M 48'27		asc. node	2447 Aug 12 21:02	3° Ω 28'14	
				morning set	2447 Aug 22 10:47	21° Ω 16'38	
superior conj	2446 Sep 15 22:53	23° M 29'54	1°37'56		2447 Aug 26 18:07	0° M	
minimum elong	2446 Sep 16 01:21	23° M 41'33	1°37'46				
	2446 Sep 19 10:39	0° A		superior conj	2447 Aug 30 08:19	7° M 12'15	1°44'57
max. Earth dist.	2446 Sep 23 01:06	6° A 29'16	1.39401 AU	minimum elong	2447 Aug 30 08:57	7° M 15'20	1°44'57
evening rise	2446 Sep 27 01:07	13° A 25'25		max. Earth dist.	2447 Sep 05 05:42	18° M 33'51	1.37368 AU
desc. node	2446 Oct 03 00:09	23° A 15'29		evening rise	2447 Sep 09 00:24	25° M 28'56	
	2446 Oct 07 07:11	0° M			2447 Sep 11 13:51	0° A	
	2446 Oct 29 08:22	0° J		desc. node	2447 Sep 19 21:11	13° A 45'39	
evening max el	2446 Nov 01 07:04	3° J 06'38	24°11'36		2447 Sep 30 20:53	0° M	
retrograde	2446 Nov 12 10:15	9° J 38'19		evening max el	2447 Oct 14 19:11	16° M 46'56	25°26'18
evening set	2446 Nov 17 17:57	7° J 25'05		retrograde	2447 Oct 26 21:22	23° M 44'14	
asc. node	2446 Nov 21 23:12	2° J 39'18		evening set	2447 Nov 01 19:19	21° M 15'47	
min. Earth dist.	2446 Nov 22 11:44	1° J 57'28	0.67661 AU	min. Earth dist.	2447 Nov 06 05:13	16° M 23'04	0.67122 AU
inferior conj	2446 Nov 23 04:28	1° J 01'04	0°25'03	inferior conj	2447 Nov 07 08:48	14° M 54'06	-0°30'30
minimum elong	2446 Nov 23 03:52	1° J 03'07	0°24'47	minimum elong	2447 Nov 07 09:35	14° M 51'35	0°30'11
	2446 Nov 23 22:40	30° R M		asc. node	2447 Nov 08 20:15	13° M 01'54	
morning rise	2446 Nov 28 13:46	24° M 56'53		morning rise	2447 Nov 13 00:06	8° M 57'41	
direct	2446 Dec 02 10:47	23° M 31'17		direct	2447 Nov 16 09:20	7° M 51'38	
morning max el	2446 Dec 10 08:38	28° M 03'57	20°26'14	morning max el	2447 Nov 23 12:56	11° M 52'51	19°23'14
	2446 Dec 12 04:06	0° J		greatest brilliancy	2447 Dec 07 02:43	0° J 08'37	-0.7m
desc. node	2446 Dec 29 23:24	24° J 39'44			2447 Dec 07 00:26	0° J	
	2447 Jan 02 12:02	0° B		desc. node	2447 Dec 16 20:27	15° J 05'37	
morning set	2447 Jan 07 14:50	7° B 51'39		morning set	2447 Dec 17 14:07	16° J 14'06	
max. Earth dist.	2447 Jan 17 07:17	23° B 08'50	1.43426 AU		2447 Dec 26 10:12	0° B	
	2447 Jan 21 12:25	0° \approx		max. Earth dist.	2447 Dec 30 21:23	7° B 01'34	1.44642 AU
superior conj	2447 Jan 23 12:55	3° \approx 20'12	-2°02'12	superior conj	2448 Jan 03 08:26	12° B 31'13	-1°41'17
minimum elong	2447 Jan 23 09:25	3° \approx 05'42	2°02'04	minimum elong	2448 Jan 03 00:04	11° B 57'51	1°40'35
evening rise	2447 Feb 04 23:09	24° \approx 35'58			2448 Jan 14 03:02	0° \approx	
	2447 Feb 08 01:09	0° X		evening rise	2448 Jan 17 15:02	5° \approx 48'13	

	2448 Feb 01 17:15	0°♄		max. Earth dist.	2448 Dec 12 15:16	21°♄17'52	1.45161 AU
asc. node	2448 Feb 04 19:35	3°♄55'02			2448 Dec 18 04:13	0°♄	
evening max el	2448 Feb 05 20:55	5°♄02'52	18°24'13	evening rise	2448 Dec 28 07:36	16°♄02'50	
retrograde	2448 Feb 12 08:52	8°♄35'15		greatest brilliancy	2449 Jan 05 21:50	29°♄42'56	-0.8m
evening set	2448 Feb 15 09:32	7°♄45'02			2449 Jan 06 02:10	0°♄	
inferior conj	2448 Feb 21 07:14	2°♄16'44	3°40'40	evening max el	2449 Jan 19 07:10	18°♄29'40	18°58'00
minimum elong	2448 Feb 21 06:30	2°♄18'53	3°40'38	asc. node	2449 Jan 21 16:36	20°♄37'24	
	2448 Feb 23 06:36	30°♄		retrograde	2449 Jan 26 03:27	22°♄21'53	
min. Earth dist.	2448 Feb 23 13:18	29°♄41'09	0.64163 AU	evening set	2449 Jan 29 10:17	21°♄19'30	
morning rise	2448 Feb 27 02:47	26°♄09'12		inferior conj	2449 Feb 04 01:25	15°♄34'24	3°26'52
direct	2448 Mar 04 23:28	23°♄20'34		minimum elong	2449 Feb 03 23:29	15°♄40'27	3°26'35
desc. node	2448 Mar 13 19:39	26°♄59'25		min. Earth dist.	2449 Feb 05 16:05	13°♄33'21	0.65677 AU
	2448 Mar 17 08:33	0°♄		morning rise	2449 Feb 09 12:20	9°♄22'48	
morning max el	2448 Mar 18 15:03	1°♄14'12	27°30'18	direct	2449 Feb 16 01:03	6°♄31'51	
	2448 Apr 08 22:12	0°♄		desc. node	2449 Feb 28 16:42	13°♄51'11	
morning set	2448 Apr 22 16:38	24°♄46'16		morning max el	2449 Mar 01 01:00	14°♄11'55	26°39'18
	2448 Apr 25 07:19	0°♄			2449 Mar 13 21:56	0°♄	
max. Earth dist.	2448 Apr 27 15:00	4°♄46'26	1.33334 AU		2449 Apr 01 15:17	0°♄	
				morning set	2449 Apr 06 00:05	8°♄04'10	
superior conj	2448 Apr 30 15:56	11°♄10'47	-0°22'10	max. Earth dist.	2449 Apr 10 05:47	16°♄18'13	1.34572 AU
minimum elong	2448 Apr 30 17:03	11°♄16'41	0°21'55				
asc. node	2448 May 02 18:53	15°♄43'18		superior conj	2449 Apr 14 15:50	25°♄16'40	-0°50'23
evening rise	2448 May 07 20:07	26°♄30'55		minimum elong	2449 Apr 14 18:25	25°♄30'01	0°49'53
	2448 May 09 12:10	0°♄			2449 Apr 16 22:17	0°♄	
	2448 May 27 23:53	0°♄		asc. node	2449 Apr 19 15:56	5°♄44'26	
evening max el	2448 May 29 14:30	1°♄38'53	22°32'46	evening rise	2449 Apr 22 05:26	11°♄05'41	
desc. node	2448 Jun 09 18:55	8°♄01'04			2449 May 02 03:47	0°♄	
retrograde	2448 Jun 11 17:12	8°♄09'35		evening max el	2449 May 11 12:56	12°♄25'34	21°03'28
evening set	2448 Jun 14 20:02	7°♄48'09		retrograde	2449 May 23 06:48	18°♄09'29	
min. Earth dist.	2448 Jun 22 21:58	4°♄17'11	0.55252 AU	evening set	2449 May 25 11:39	17°♄58'07	
inferior conj	2448 Jun 24 02:22	3°♄36'48	-3°47'49	desc. node	2449 May 27 15:56	17°♄26'02	
minimum elong	2448 Jun 23 18:22	3°♄48'12	3°45'48	inferior conj	2449 Jun 03 20:14	13°♄59'55	-2°04'21
	2448 Jul 01 19:48	30°♄		minimum elong	2449 Jun 03 14:28	14°♄08'04	2°02'21
morning rise	2448 Jul 02 18:53	29°♄45'25		min. Earth dist.	2449 Jun 04 10:14	13°♄40'07	0.54892 AU
direct	2448 Jul 05 17:40	29°♄25'31		morning rise	2449 Jun 12 17:16	9°♄58'17	
	2448 Jul 09 12:12	0°♄		direct	2449 Jun 16 03:13	9°♄33'05	
morning max el	2448 Jul 17 02:37	4°♄42'30	21°02'36	morning max el	2449 Jun 29 00:26	15°♄42'04	22°37'57
asc. node	2448 Jul 29 18:06	22°♄16'55			2449 Jul 10 03:48	0°♄	
	2448 Aug 02 19:28	0°♄		asc. node	2449 Jul 16 15:10	11°♄35'12	
morning set	2448 Aug 05 18:22	5°♄59'38		morning set	2449 Jul 21 04:54	20°♄51'54	
					2449 Jul 25 12:01	0°♄	
superior conj	2448 Aug 13 04:32	21°♄26'55	1°43'56				
minimum elong	2448 Aug 13 03:39	21°♄22'21	1°43'54	superior conj	2449 Jul 28 08:09	6°♄03'43	1°36'21
	2448 Aug 17 09:57	0°♄		minimum elong	2449 Jul 28 06:15	5°♄53'41	1°36'11
max. Earth dist.	2448 Aug 17 14:55	0°♄24'34	1.35553 AU	max. Earth dist.	2449 Jul 31 08:47	12°♄25'23	1.34104 AU
evening rise	2448 Aug 21 18:57	8°♄27'18		evening rise	2449 Aug 05 04:15	22°♄08'50	
	2448 Sep 03 04:57	0°♄			2449 Aug 09 07:04	0°♄	
desc. node	2448 Sep 05 18:14	3°♄59'57		desc. node	2449 Aug 23 15:15	23°♄51'06	
	2448 Sep 25 20:43	0°♄			2449 Aug 27 23:08	0°♄	
evening max el	2448 Sep 26 07:16	0°♄25'44	26°28'34	evening max el	2449 Sep 08 19:28	13°♄55'15	27°10'47
retrograde	2448 Oct 09 03:32	7°♄38'33		retrograde	2449 Sep 22 04:11	21°♄13'37	
evening set	2448 Oct 15 15:00	4°♄59'01		evening set	2449 Sep 29 02:36	18°♄30'23	
min. Earth dist.	2448 Oct 19 17:37	0°♄42'24	0.66234 AU	min. Earth dist.	2449 Oct 02 22:41	14°♄49'35	0.64992 AU
	2448 Oct 20 07:43	30°♄		inferior conj	2449 Oct 05 02:03	12°♄26'46	-2°27'55
inferior conj	2448 Oct 21 08:44	28°♄44'07	-1°28'48	minimum elong	2449 Oct 05 06:02	12°♄15'39	2°26'26
minimum elong	2448 Oct 21 11:06	28°♄36'55	1°27'49	morning rise	2449 Oct 11 10:24	6°♄54'10	
asc. node	2448 Oct 25 17:17	24°♄04'55		asc. node	2449 Oct 12 14:20	6°♄28'20	
morning rise	2448 Oct 27 07:47	22°♄58'07		direct	2449 Oct 14 02:40	6°♄16'04	
direct	2448 Oct 30 07:19	22°♄08'00		morning max el	2449 Oct 20 14:46	9°♄45'08	18°04'59
morning max el	2448 Nov 05 23:48	25°♄48'33	18°35'47		2449 Nov 03 12:16	0°♄	
	2448 Nov 09 14:10	0°♄		morning set	2449 Nov 07 14:33	6°♄48'21	
morning set	2448 Nov 26 11:39	25°♄47'29		desc. node	2449 Nov 19 14:31	26°♄25'44	
	2448 Nov 29 03:09	0°♄					
desc. node	2448 Dec 02 17:29	5°♄42'13		superior conj	2449 Nov 21 17:37	29°♄49'56	-0°14'22
				minimum elong	2449 Nov 21 15:49	29°♄42'46	0°14'06
superior conj	2448 Dec 12 11:17	21°♄02'13	-1°02'25	behind sun begin	2449 Nov 21 10:29	29°♄21'28	
minimum elong	2448 Dec 12 03:38	20°♄32'12	1°01'30	behind sun end	2449 Nov 21 21:10	0°♄04'04	

	2449 Nov 21 20:09	0°♊		morning set	2450 Oct 20 18:55	19°♊03'11	
max. Earth dist.	2449 Nov 25 10:06	5°♊40'24	1.44941 AU		2450 Oct 27 02:50	0°♊	
evening rise	2449 Dec 08 02:58	25°♊28'41					
	2449 Dec 11 01:14	0°♊		superior conj	2450 Nov 01 21:26	9°♊42'41	0°31'00
greatest brilliancy	2449 Dec 21 13:29	16°♊01'30	-0.7m	minimum elong	2450 Nov 02 00:32	9°♊55'31	0°30'33
	2449 Dec 31 17:57	0°♊		desc. node	2450 Nov 06 11:33	17°♊12'52	
evening max el	2450 Jan 02 13:22	1°♊59'24	19°48'04	max. Earth dist.	2450 Nov 08 03:24	19°♊53'13	1.44014 AU
asc. node	2450 Jan 08 13:36	6°♊08'26			2450 Nov 14 13:02	0°♊	
retrograde	2450 Jan 10 00:47	6°♊20'16		evening rise	2450 Nov 17 11:47	4°♊34'12	
evening set	2450 Jan 13 15:13	5°♊04'24			2450 Dec 04 12:10	0°♊	
	2450 Jan 18 09:34	30°♊♊		evening max el	2450 Dec 16 14:18	15°♊30'49	20°51'57
inferior conj	2450 Jan 19 02:15	29°♊04'56	3°01'08	retrograde	2450 Dec 24 22:37	20°♊27'05	
minimum elong	2450 Jan 18 23:44	29°♊13'17	3°00'33	asc. node	2450 Dec 26 10:37	20°♊14'35	
min. Earth dist.	2450 Jan 20 02:37	27°♊44'06	0.66793 AU	evening set	2450 Dec 28 22:25	18°♊56'14	
morning rise	2450 Jan 24 08:02	22°♊51'42		inferior conj	2451 Jan 03 07:19	12°♊45'12	2°26'09
direct	2450 Jan 30 08:28	20°♊10'36		minimum elong	2451 Jan 03 04:46	12°♊53'57	2°25'22
morning max el	2450 Feb 11 09:52	27°♊21'59	25°25'40	min. Earth dist.	2451 Jan 03 18:51	12°♊05'39	0.67507 AU
	2450 Feb 13 21:21	0°♊		morning rise	2451 Jan 08 10:56	6°♊32'11	
desc. node	2450 Feb 15 13:43	1°♊55'12		direct	2451 Jan 13 20:52	4°♊09'13	
	2450 Mar 07 14:01	0°♊		morning max el	2451 Jan 24 18:13	10°♊38'43	23°59'42
morning set	2450 Mar 19 15:45	20°♊30'55		desc. node	2451 Feb 02 10:45	20°♊50'57	
max. Earth dist.	2450 Mar 23 08:45	27°♊22'10	1.36269 AU		2451 Feb 09 03:25	0°♊	
	2450 Mar 24 18:02	0°♊			2451 Feb 28 07:51	0°♊	
				morning set	2451 Mar 01 09:51	1°♊51'20	
superior conj	2450 Mar 29 06:58	8°♊51'38	-1°17'43	max. Earth dist.	2451 Mar 05 04:36	8°♊28'49	1.38317 AU
minimum elong	2450 Mar 29 10:49	9°♊10'51	1°17'07				
evening rise	2450 Apr 06 10:23	25°♊21'29		superior conj	2451 Mar 12 09:53	21°♊47'10	-1°41'47
asc. node	2450 Apr 06 12:57	25°♊34'26		minimum elong	2451 Mar 12 14:16	22°♊08'03	1°41'19
	2450 Apr 08 17:55	0°♊			2451 Mar 16 16:04	0°♊	
evening max el	2450 Apr 23 22:59	23°♊48'35	19°49'55	evening rise	2451 Mar 21 08:32	9°♊12'08	
retrograde	2450 May 03 23:01	28°♊38'51		asc. node	2451 Mar 24 09:58	15°♊08'50	
evening set	2450 May 05 23:11	28°♊28'02			2451 Apr 02 00:41	0°♊	
inferior conj	2450 May 14 19:20	24°♊26'56	-0°04'40	evening max el	2451 Apr 06 20:08	5°♊50'53	18°55'41
minimum elong	2450 May 14 19:08	24°♊27'15	0°04'35	retrograde	2451 Apr 15 06:18	9°♊56'42	
transit middle	2450 May 14 19:08	24°♊27'15	0°04'35	evening set	2451 Apr 17 10:44	9°♊41'17	
transit begin	2450 May 14 15:20	24°♊33'05		inferior conj	2451 Apr 25 11:35	5°♊24'34	1°38'28
transit end	2450 May 14 22:55	24°♊21'25		minimum elong	2451 Apr 25 15:01	5°♊18'27	1°37'23
desc. node	2450 May 14 12:57	24°♊36'45		min. Earth dist.	2451 Apr 28 15:38	3°♊10'20	0.56950 AU
min. Earth dist.	2450 May 16 23:52	23°♊06'24	0.55503 AU	desc. node	2451 May 01 09:57	1°♊26'50	
morning rise	2450 May 23 12:47	19°♊57'39		morning rise	2451 May 03 16:13	0°♊20'45	
direct	2450 May 27 18:39	19°♊17'50			2451 May 04 14:07	30°♊♊	
morning max el	2450 Jun 10 15:32	26°♊12'07	24°20'21	direct	2451 May 08 22:54	29°♊14'14	
	2450 Jun 14 06:21	0°♊			2451 May 13 08:21	0°♊	
	2450 Jul 02 21:35	0°♊		morning max el	2451 May 23 06:14	6°♊39'38	25°55'18
asc. node	2450 Jul 03 12:13	1°♊14'32			2451 Jun 09 10:25	0°♊	
morning set	2450 Jul 05 16:40	5°♊47'27		morning set	2451 Jun 20 04:03	20°♊41'11	
				asc. node	2451 Jun 20 09:15	21°♊08'43	
					2451 Jun 24 11:44	0°♊	
superior conj	2450 Jul 12 16:28	20°♊53'37	1°23'23				
minimum elong	2450 Jul 12 14:07	20°♊40'51	1°23'04	superior conj	2451 Jun 27 03:26	5°♊49'41	1°05'56
max. Earth dist.	2450 Jul 14 11:39	24°♊46'57	1.33056 AU	minimum elong	2451 Jun 27 01:07	5°♊36'59	1°05'32
	2450 Jul 16 22:29	0°♊		max. Earth dist.	2451 Jun 27 20:59	7°♊26'00	1.32406 AU
evening rise	2450 Jul 20 00:13	6°♊21'20		evening rise	2451 Jul 04 03:39	20°♊54'51	
	2450 Aug 01 20:31	0°♊			2451 Jul 08 15:59	0°♊	
desc. node	2450 Aug 10 12:16	13°♊09'16			2451 Jul 27 01:56	0°♊	
evening max el	2450 Aug 22 06:20	27°♊03'45	27°26'11		2451 Jul 28 09:17	1°♊40'31	
	2450 Aug 25 15:54	0°♊		desc. node	2451 Aug 04 13:11	9°♊37'01	27°09'40
retrograde	2450 Sep 04 22:33	4°♊20'49		evening max el	2451 Aug 18 09:46	16°♊50'52	
evening set	2450 Sep 12 03:04	1°♊44'10		retrograde	2451 Aug 25 12:25	14°♊33'17	
	2450 Sep 14 06:27	30°♊♊		evening set	2451 Aug 29 03:26	11°♊49'03	0.61521 AU
min. Earth dist.	2450 Sep 15 18:24	28°♊35'57	0.63405 AU	min. Earth dist.	2451 Sep 01 05:55	9°♊04'09	-4°15'14
inferior conj	2450 Sep 18 10:10	25°♊56'11	-3°24'58	inferior conj	2451 Sep 01 11:16	8°♊52'15	4°14'03
minimum elong	2450 Sep 18 15:23	25°♊43'05	3°23'21	minimum elong	2451 Sep 08 11:46	4°♊08'38	
morning rise	2450 Sep 25 04:58	20°♊40'19		morning rise	2451 Sep 10 21:35	3°♊44'25	
direct	2450 Sep 27 16:36	20°♊10'39		direct	2451 Sep 16 08:27	5°♊53'06	
asc. node	2450 Sep 29 11:23	20°♊26'14		asc. node	2451 Sep 17 21:38	7°♊14'48	17°56'53
morning max el	2450 Oct 04 07:02	23°♊36'20	17°51'42	morning max el	2451 Oct 02 13:23	0°♊	
	2450 Oct 09 09:11	0°♊					

morning set	2451 Oct 03 18:19	2°♄12'15			2452 Sep 23 16:18	0°♄	
superior conj	2451 Oct 14 04:20	20°♄55'06	1°06'12	superior conj	2452 Sep 25 11:15	3°♄18'38	1°29'31
minimum elong	2451 Oct 14 08:49	21°♄14'35	1°05'40	minimum elong	2452 Sep 25 14:44	3°♄34'37	1°29'12
	2451 Oct 19 11:57	0°♄		max. Earth dist.	2452 Oct 02 23:50	16°♄41'09	1.40580 AU
max. Earth dist.	2451 Oct 21 16:26	3°♄38'02	1.42496 AU	evening rise	2452 Oct 07 12:49	24°♄19'46	
desc. node	2451 Oct 24 08:34	7°♄59'55		desc. node	2452 Oct 10 05:37	28°♄43'53	
evening rise	2451 Oct 28 02:32	13°♄59'35			2452 Oct 11 00:34	0°♄	
	2451 Nov 07 13:20	0°♄			2452 Oct 31 10:14	0°♄	
evening max el	2451 Nov 29 09:37	29°♄02'44	22°06'10	evening max el	2452 Nov 11 00:28	12°♄37'07	23°25'42
	2451 Nov 30 08:52	0°♄		retrograde	2452 Nov 21 12:53	18°♄50'32	
retrograde	2451 Dec 08 19:07	4°♄38'10		evening set	2452 Nov 26 12:38	16°♄46'38	
evening set	2451 Dec 13 06:06	2°♄51'03		asc. node	2452 Nov 29 04:43	13°♄58'57	
asc. node	2451 Dec 13 07:40	2°♄47'50		inferior conj	2452 Dec 01 22:00	10°♄22'54	0°55'16
	2451 Dec 16 00:04	30°♄		minimum elong	2452 Dec 01 20:44	10°♄27'13	0°54'44
inferior conj	2451 Dec 18 14:30	26°♄31'46	1°43'44	min. Earth dist.	2452 Dec 01 11:15	10°♄59'44	0.67824 AU
minimum elong	2451 Dec 18 12:24	26°♄39'05	1°42'57	morning rise	2452 Dec 07 04:47	4°♄15'28	
min. Earth dist.	2451 Dec 18 14:30	26°♄31'48	0.67841 AU	direct	2452 Dec 11 09:16	2°♄37'39	
morning rise	2451 Dec 23 18:33	20°♄20'37		morning max el	2452 Dec 19 20:55	7°♄33'31	21°08'41
direct	2451 Dec 28 13:24	18°♄19'56			2453 Jan 05 22:55	0°♄	
morning max el	2452 Jan 07 04:46	24°♄01'28	22°31'19	desc. node	2453 Jan 06 04:49	0°♄21'43	
	2452 Jan 12 11:38	0°♄		morning set	2453 Jan 19 11:05	20°♄32'25	
desc. node	2452 Jan 20 07:47	10°♄23'08			2453 Jan 25 09:30	0°♄	
	2452 Feb 02 13:58	0°♄		max. Earth dist.	2453 Jan 27 03:18	2°♄50'01	1.42464 AU
morning set	2452 Feb 10 00:32	11°♄50'53					
max. Earth dist.	2452 Feb 15 00:59	20°♄12'40	1.40477 AU	superior conj	2453 Feb 03 08:08	14°♄52'18	-2°05'36
	2452 Feb 20 16:17	0°♄		minimum elong	2453 Feb 03 07:48	14°♄50'52	2°05'36
					2453 Feb 11 23:16	0°♄	
superior conj	2452 Feb 22 20:01	3°♄51'28	-1°59'16	evening rise	2453 Feb 14 19:05	5°♄04'46	
minimum elong	2452 Feb 22 23:19	4°♄06'23	1°59'05	asc. node	2453 Feb 25 04:03	23°♄06'06	
evening rise	2452 Mar 03 20:43	22°♄29'33			2453 Mar 02 03:59	0°♄	
	2452 Mar 07 21:04	0°♄		evening max el	2453 Mar 03 12:15	1°♄26'08	18°07'42
asc. node	2452 Mar 10 07:00	4°♄21'50		retrograde	2453 Mar 10 04:09	4°♄50'37	
evening max el	2452 Mar 20 01:38	18°♄26'20	18°21'44	evening set	2453 Mar 12 20:17	4°♄17'52	
retrograde	2452 Mar 27 08:54	22°♄03'37			2453 Mar 18 18:12	30°♄	
evening set	2452 Mar 29 19:21	21°♄40'31		inferior conj	2453 Mar 19 10:47	29°♄20'24	3°28'09
inferior conj	2452 Apr 06 01:19	17°♄03'37	2°49'14	minimum elong	2453 Mar 19 12:55	29°♄15'14	3°27'53
minimum elong	2452 Apr 06 05:03	16°♄55'51	2°48'24	min. Earth dist.	2453 Mar 22 15:06	26°♄17'53	0.61080 AU
min. Earth dist.	2452 Apr 09 11:52	14°♄13'01	0.58924 AU	morning rise	2453 Mar 26 03:43	23°♄27'44	
morning rise	2452 Apr 13 12:01	11°♄30'16		direct	2453 Apr 01 22:12	21°♄10'50	
desc. node	2452 Apr 17 06:58	10°♄03'38		desc. node	2453 Apr 04 04:00	21°♄24'57	
direct	2452 Apr 19 16:43	9°♄48'12		morning max el	2453 Apr 16 03:39	29°♄05'36	27°45'15
morning max el	2452 May 04 01:46	17°♄32'45	27°07'14		2453 Apr 17 01:10	0°♄	
	2452 May 14 09:49	0°♄			2453 May 08 06:45	0°♄	
	2452 May 31 21:34	0°♄		morning set	2453 May 18 18:51	20°♄00'13	
morning set	2452 Jun 03 13:25	5°♄27'49			2453 May 23 12:21	0°♄	
asc. node	2452 Jun 06 06:19	11°♄12'41		asc. node	2453 May 24 03:21	1°♄21'10	
				max. Earth dist.	2453 May 24 20:06	2°♄52'14	1.32278 AU
superior conj	2452 Jun 10 15:15	20°♄46'11	0°44'44				
minimum elong	2452 Jun 10 13:26	20°♄36'10	0°44'22	superior conj	2453 May 26 02:09	5°♄36'25	0°20'28
max. Earth dist.	2452 Jun 10 09:06	20°♄12'19	1.32144 AU	minimum elong	2453 May 26 01:13	5°♄31'22	0°20'16
	2452 Jun 14 20:16	0°♄		evening rise	2453 Jun 01 23:01	20°♄32'43	
evening rise	2452 Jun 17 11:59	5°♄41'18			2453 Jun 06 13:25	0°♄	
	2452 Jun 30 07:55	0°♄			2453 Jun 25 21:28	0°♄	
desc. node	2452 Jul 14 06:17	19°♄05'36		evening max el	2453 Jun 28 06:36	2°♄26'15	25°02'15
evening max el	2452 Jul 16 13:27	21°♄24'50	26°20'02	desc. node	2453 Jul 01 03:19	4°♄56'43	
retrograde	2452 Jul 30 13:00	28°♄36'08		retrograde	2453 Jul 12 06:11	9°♄32'05	
evening set	2452 Aug 06 02:02	26°♄50'11		evening set	2453 Jul 17 15:57	8°♄25'05	
min. Earth dist.	2452 Aug 10 02:25	24°♄14'36	0.59461 AU	min. Earth dist.	2453 Jul 22 18:12	5°♄39'17	0.57465 AU
inferior conj	2452 Aug 13 09:47	21°♄41'36	-4°50'57	inferior conj	2453 Jul 25 18:26	3°♄38'15	-5°00'15
minimum elong	2452 Aug 13 13:13	21°♄34'56	4°50'36	minimum elong	2453 Jul 25 17:18	3°♄40'10	5°00'13
morning rise	2452 Aug 21 02:32	17°♄08'54			2453 Aug 01 04:23	30°♄	
direct	2452 Aug 23 13:11	16°♄47'57		morning rise	2453 Aug 02 21:15	29°♄27'37	
morning max el	2452 Aug 31 07:26	20°♄32'44	18°21'46	direct	2453 Aug 05 11:02	29°♄08'20	
asc. node	2452 Sep 02 05:31	22°♄35'23			2453 Aug 09 12:49	0°♄	
	2452 Sep 07 11:21	0°♄		morning max el	2453 Aug 14 09:09	3°♄19'18	19°07'35
morning set	2452 Sep 16 07:21	16°♄00'38		asc. node	2453 Aug 20 02:34	10°♄16'51	

morning set	2453 Aug 31 05:51	0° \mathbb{M} 16'09		morning rise	2454 Jul 14 18:55	10° \mathbb{S} 54'46	
	2453 Aug 31 02:35	0° \mathbb{M}		direct	2454 Jul 17 13:52	10° \mathbb{S} 35'35	
superior conj	2453 Sep 08 12:27	16° \mathbb{M} 36'00	1°41'59	morning max el	2454 Jul 28 00:06	15° \mathbb{S} 25'33	20°14'47
minimum elong	2453 Sep 08 14:07	16° \mathbb{M} 44'03	1°41'55	asc. node	2454 Aug 06 23:37	28° \mathbb{S} 44'16	
max. Earth dist.	2453 Sep 15 03:34	29° \mathbb{M} 00'51	1.38516 AU		2454 Aug 07 17:12	0° \mathbb{Q}	
	2453 Sep 15 16:41	0° \mathbb{L}		morning set	2454 Aug 15 10:46	14° \mathbb{Q} 50'51	
evening rise	2453 Sep 18 23:02	5° \mathbb{L} 46'23			2454 Aug 22 20:22	0° \mathbb{M}	
desc. node	2453 Sep 27 02:40	19° \mathbb{L} 20'18		superior conj	2454 Aug 23 02:52	0° \mathbb{M} 32'49	1°45'25
	2453 Oct 04 01:00	0° \mathbb{M}		minimum elong	2454 Aug 23 02:47	0° \mathbb{M} 32'27	1°45'24
evening max el	2453 Oct 24 12:59	26° \mathbb{M} 15'32	24°44'26	max. Earth dist.	2454 Aug 28 09:14	10° \mathbb{M} 55'07	1.36559 AU
	2453 Oct 28 19:55	0° \mathbb{J}		evening rise	2454 Sep 01 07:03	18° \mathbb{M} 14'30	
retrograde	2453 Nov 05 02:48	3° \mathbb{J} 00'04			2454 Sep 07 23:43	0° \mathbb{L}	
evening set	2453 Nov 10 16:25	0° \mathbb{J} 40'07		desc. node	2454 Sep 13 23:42	9° \mathbb{L} 44'17	
	2453 Nov 11 10:04	30° \mathbb{R} \mathbb{M}			2454 Sep 28 06:16	0° \mathbb{M}	
min. Earth dist.	2453 Nov 15 06:44	25° \mathbb{M} 26'57	0.67470 AU	evening max el	2454 Oct 07 01:08	9° \mathbb{M} 56'21	25°54'56
inferior conj	2453 Nov 16 04:01	24° \mathbb{M} 16'17	0°01'57	retrograde	2454 Oct 19 11:50	17° \mathbb{M} 01'24	
minimum elong	2453 Nov 16 03:58	24° \mathbb{M} 16'27	0°01'54	evening set	2454 Oct 25 15:36	14° \mathbb{M} 27'55	
transit middle	2453 Nov 16 03:58	24° \mathbb{M} 16'27	0°01'54	min. Earth dist.	2454 Oct 29 22:26	9° \mathbb{M} 50'11	0.66781 AU
transit begin	2453 Nov 16 01:14	24° \mathbb{M} 25'32		inferior conj	2454 Oct 31 06:44	8° \mathbb{M} 08'35	-0°55'00
transit end	2453 Nov 16 06:42	24° \mathbb{M} 07'23		minimum elong	2454 Oct 31 08:10	8° \mathbb{M} 04'02	0°54'23
asc. node	2453 Nov 16 01:46	24° \mathbb{M} 23'47		asc. node	2454 Nov 02 22:49	4° \mathbb{M} 57'00	
morning rise	2453 Nov 21 15:38	18° \mathbb{M} 14'53		morning rise	2454 Nov 06 01:05	2° \mathbb{M} 15'57	
direct	2453 Nov 25 07:19	16° \mathbb{M} 58'04		direct	2454 Nov 09 05:56	1° \mathbb{M} 17'01	
morning max el	2453 Dec 02 20:42	21° \mathbb{M} 16'30	19°57'32	morning max el	2454 Nov 16 03:55	5° \mathbb{M} 08'17	19°01'02
	2453 Dec 10 00:43	0° \mathbb{J}			2454 Dec 03 19:16	0° \mathbb{J}	
desc. node	2453 Dec 24 01:53	20° \mathbb{J} 39'29		morning set	2454 Dec 08 13:59	7° \mathbb{J} 27'53	
morning set	2453 Dec 29 07:09	28° \mathbb{J} 40'13		desc. node	2454 Dec 10 22:56	11° \mathbb{J} 10'33	
	2453 Dec 30 03:48	0° \mathbb{S}			2454 Dec 22 23:14	0° \mathbb{S}	
max. Earth dist.	2454 Jan 09 13:06	16° \mathbb{S} 18'08	1.44020 AU	max. Earth dist.	2454 Dec 23 05:11	0° \mathbb{S} 23'24	1.44955 AU
superior conj	2454 Jan 14 18:21	24° \mathbb{S} 42'36	-1°55'43	superior conj	2454 Dec 25 04:57	3° \mathbb{S} 31'38	-1°26'41
minimum elong	2454 Jan 14 12:27	24° \mathbb{S} 18'34	1°55'23	minimum elong	2454 Dec 24 19:59	2° \mathbb{S} 56'18	1°25'46
	2454 Jan 17 23:47	0° \mathbb{A}		evening rise	2455 Jan 09 05:22	27° \mathbb{S} 37'05	
evening rise	2454 Jan 27 23:17	16° \mathbb{A} 49'27			2455 Jan 10 16:23	0° \mathbb{A}	
	2454 Feb 04 16:50	0° \mathbb{H}		evening max el	2455 Jan 29 12:46	28° \mathbb{A} 06'33	18°36'29
asc. node	2454 Feb 12 01:05	11° \mathbb{H} 12'43		asc. node	2455 Jan 29 22:07	28° \mathbb{A} 29'49	
evening max el	2454 Feb 15 00:54	14° \mathbb{H} 42'03	18°12'54		2455 Jan 31 15:46	0° \mathbb{H}	
retrograde	2454 Feb 21 11:40	18° \mathbb{H} 07'44		retrograde	2455 Feb 05 03:10	1° \mathbb{H} 45'42	
evening set	2454 Feb 24 09:11	17° \mathbb{H} 24'10		evening set	2455 Feb 08 06:26	0° \mathbb{H} 50'18	
inferior conj	2454 Mar 02 12:01	12° \mathbb{H} 06'53	3°41'42		2455 Feb 09 11:47	30° \mathbb{R} \mathbb{A}	
minimum elong	2454 Mar 02 12:14	12° \mathbb{H} 06'19	3°41'42	inferior conj	2455 Feb 14 01:00	25° \mathbb{A} 14'43	3°36'25
min. Earth dist.	2454 Mar 05 03:05	9° \mathbb{H} 16'12	0.63125 AU	minimum elong	2455 Feb 13 23:41	25° \mathbb{A} 18'41	3°36'18
morning rise	2454 Mar 08 14:18	6° \mathbb{H} 03'24		min. Earth dist.	2455 Feb 16 00:27	22° \mathbb{A} 52'52	0.64865 AU
direct	2454 Mar 15 12:51	3° \mathbb{H} 22'01		morning rise	2455 Feb 19 16:28	19° \mathbb{A} 05'23	
desc. node	2454 Mar 22 01:02	5° \mathbb{H} 21'43		direct	2455 Feb 26 10:35	16° \mathbb{A} 14'04	
morning max el	2454 Mar 29 10:31	11° \mathbb{H} 18'32	27°45'51	desc. node	2455 Mar 08 22:04	21° \mathbb{A} 19'16	
	2454 Apr 13 04:44	0° \mathbb{Y}		morning max el	2455 Mar 11 19:56	24° \mathbb{A} 02'44	27°11'51
	2454 Apr 30 15:23	0° \mathbb{B}			2455 Mar 17 04:32	0° \mathbb{H}	
morning set	2454 May 02 18:08	4° \mathbb{B} 11'11			2455 Apr 06 13:33	0° \mathbb{Y}	
max. Earth dist.	2454 May 08 02:04	15° \mathbb{B} 13'02	1.32826 AU	morning set	2455 Apr 16 08:23	17° \mathbb{Y} 51'08	
superior conj	2454 May 10 10:25	20° \mathbb{B} 14'47	-0°06'09	max. Earth dist.	2455 Apr 20 23:19	27° \mathbb{Y} 04'07	1.33811 AU
minimum elong	2454 May 10 10:43	20° \mathbb{B} 16'24	0°06'04		2455 Apr 22 09:29	0° \mathbb{B}	
behind sun begin	2454 May 10 05:49	19° \mathbb{B} 50'03		superior conj	2455 Apr 24 14:00	4° \mathbb{B} 34'19	-0°34'08
behind sun end	2454 May 10 15:36	20° \mathbb{B} 42'47		minimum elong	2455 Apr 24 15:44	4° \mathbb{B} 43'26	0°33'46
asc. node	2454 May 11 00:24	21° \mathbb{B} 30'17		asc. node	2455 Apr 27 21:26	11° \mathbb{B} 35'23	
	2454 May 14 22:32	0° \mathbb{I}		evening rise	2455 May 01 21:40	20° \mathbb{B} 05'03	
evening rise	2454 May 17 10:53	5° \mathbb{I} 22'55			2455 May 06 19:03	0° \mathbb{I}	
	2454 May 30 14:48	0° \mathbb{S}		evening max el	2455 May 22 13:25	23° \mathbb{I} 30'45	21°53'12
evening max el	2454 Jun 09 20:14	12° \mathbb{S} 58'21	23°28'10	retrograde	2455 Jun 04 03:31	29° \mathbb{I} 42'46	
desc. node	2454 Jun 18 00:19	18° \mathbb{S} 39'35		desc. node	2455 Jun 04 21:18	29° \mathbb{I} 41'31	
retrograde	2454 Jun 23 10:46	19° \mathbb{S} 46'41		evening set	2455 Jun 06 19:01	29° \mathbb{I} 27'07	
evening set	2454 Jun 27 08:45	19° \mathbb{S} 13'05		min. Earth dist.	2455 Jun 15 17:40	25° \mathbb{I} 38'27	0.54987 AU
min. Earth dist.	2454 Jul 04 06:22	16° \mathbb{S} 02'06	0.55867 AU	inferior conj	2455 Jun 16 04:23	25° \mathbb{I} 23'27	-3°08'03
inferior conj	2454 Jul 06 07:03	14° \mathbb{S} 49'47	-4°28'28	minimum elong	2455 Jun 15 20:36	25° \mathbb{I} 34'21	3°05'42
minimum elong	2454 Jul 06 00:34	14° \mathbb{S} 59'28	4°27'19	morning rise	2455 Jun 24 23:32	21° \mathbb{I} 30'17	

direct	2455 Jun 28 02:31	21° Π 08'44		minimum elong	2456 May 25 19:09	5° Π 48'56	1°12'03
morning max el	2455 Jul 10 03:29	26° Π 47'30	21°41'36	min. Earth dist.	2456 May 27 06:05	4° Π 58'18	0.55038 AU
	2455 Jul 13 05:35	0° \mathfrak{S}		morning rise	2456 Jun 03 19:23	1° Π 32'36	
asc. node	2455 Jul 24 20:41	17° \mathfrak{S} 46'45		direct	2456 Jun 07 12:42	1° Π 02'45	
morning set	2455 Jul 30 19:50	29° \mathfrak{S} 38'38		morning max el	2456 Jun 20 21:46	7° Π 31'48	23°21'36
	2455 Jul 30 23:56	0° Ω			2456 Jul 06 22:52	0° \mathfrak{S}	
				asc. node	2456 Jul 10 17:43	7° \mathfrak{S} 14'53	
superior conj	2455 Aug 07 02:33	14° Ω 57'51	1°41'26	morning set	2456 Jul 14 07:05	14° \mathfrak{S} 33'09	
minimum elong	2455 Aug 07 01:10	14° Ω 50'39	1°41'22				
max. Earth dist.	2455 Aug 10 22:13	22° Ω 49'34	1.34890 AU	superior conj	2456 Jul 21 08:26	29° \mathfrak{S} 41'09	1°31'27
	2455 Aug 14 13:09	0° \mathfrak{M}		minimum elong	2456 Jul 21 06:17	29° \mathfrak{S} 29'38	1°31'13
evening rise	2455 Aug 15 08:24	1° \mathfrak{M} 32'45			2456 Jul 21 11:57	0° Ω	
desc. node	2455 Aug 31 20:42	29° \mathfrak{M} 49'54		max. Earth dist.	2456 Jul 23 20:14	4° Ω 59'32	1.33604 AU
	2455 Aug 31 23:22	0° \mathfrak{L}		evening rise	2456 Jul 28 22:38	15° Ω 28'28	
evening max el	2455 Sep 19 13:34	23° \mathfrak{L} 33'19	26°49'31		2456 Aug 05 15:27	0° \mathfrak{M}	
	2455 Sep 28 16:09	0° \mathfrak{M}		desc. node	2456 Aug 17 17:41	19° \mathfrak{M} 28'28	
retrograde	2455 Oct 02 15:30	0° \mathfrak{M} 48'41			2456 Aug 25 16:08	0° \mathfrak{L}	
	2455 Oct 06 08:34	30° \mathfrak{R} \mathfrak{L}		evening max el	2456 Sep 01 01:16	6° \mathfrak{L} 54'47	27°20'58
evening set	2455 Oct 09 08:08	28° \mathfrak{L} 06'40		retrograde	2456 Sep 14 13:23	14° \mathfrak{L} 13'09	
min. Earth dist.	2455 Oct 13 07:56	24° \mathfrak{L} 05'28	0.65747 AU	evening set	2456 Sep 21 15:23	11° \mathfrak{L} 30'59	
inferior conj	2455 Oct 15 04:07	21° \mathfrak{L} 56'20	-1°53'55	min. Earth dist.	2456 Sep 25 09:02	8° \mathfrak{L} 05'05	0.64357 AU
minimum elong	2455 Oct 15 07:12	21° \mathfrak{L} 47'19	1°52'41	inferior conj	2456 Sep 27 17:50	5° \mathfrak{L} 33'45	-2°52'37
asc. node	2455 Oct 20 19:51	16° \mathfrak{L} 31'06		minimum elong	2456 Sep 27 22:25	5° \mathfrak{L} 21'30	2°51'00
morning rise	2455 Oct 21 06:56	16° \mathfrak{L} 15'36		morning rise	2456 Oct 04 06:32	0° \mathfrak{L} 08'09	
direct	2455 Oct 24 03:12	15° \mathfrak{L} 30'53			2456 Oct 04 14:33	30° \mathfrak{R} \mathfrak{M}	
morning max el	2455 Oct 30 16:49	19° \mathfrak{L} 05'10	18°20'41	direct	2456 Oct 06 20:33	29° \mathfrak{M} 34'02	
	2455 Nov 07 22:58	0° \mathfrak{M}		asc. node	2456 Oct 06 16:54	29° \mathfrak{M} 34'10	
morning set	2455 Nov 19 00:08	17° \mathfrak{M} 39'50			2456 Oct 09 02:29	0° \mathfrak{L}	
	2455 Nov 26 16:09	0° \mathfrak{X}		morning max el	2456 Oct 13 08:44	3° \mathfrak{L} 00'24	17°57'15
desc. node	2455 Nov 27 19:59	1° \mathfrak{X} 50'53		morning set	2456 Oct 30 14:32	29° \mathfrak{L} 14'02	
					2456 Oct 31 01:22	0° \mathfrak{M}	
superior conj	2455 Dec 04 06:32	12° \mathfrak{X} 02'16	-0°42'26				
minimum elong	2455 Dec 04 01:05	11° \mathfrak{X} 40'50	0°41'43	superior conj	2456 Nov 12 20:26	21° \mathfrak{M} 13'19	0°05'50
max. Earth dist.	2455 Dec 06 00:32	14° \mathfrak{X} 47'22	1.45161 AU	minimum elong	2456 Nov 12 21:06	21° \mathfrak{M} 16'03	0°05'44
	2455 Dec 15 17:31	0° \mathfrak{Z}		behind sun begin	2456 Nov 12 11:26	20° \mathfrak{M} 36'57	
evening rise	2455 Dec 20 12:20	7° \mathfrak{Z} 29'46		behind sun end	2456 Nov 13 06:47	21° \mathfrak{M} 55'05	
greatest brilliancy	2455 Dec 31 08:34	24° \mathfrak{Z} 25'28	-0.8m	desc. node	2456 Nov 13 17:00	22° \mathfrak{M} 36'14	
	2456 Jan 04 01:00	0° \mathfrak{A}		max. Earth dist.	2456 Nov 17 19:08	29° \mathfrak{M} 08'02	1.44623 AU
evening max el	2456 Jan 12 21:33	11° \mathfrak{A} 35'18	19°17'19		2456 Nov 18 08:15	0° \mathfrak{X}	
asc. node	2456 Jan 16 19:07	14° \mathfrak{A} 44'09		evening rise	2456 Nov 29 01:22	16° \mathfrak{X} 42'06	
retrograde	2456 Jan 19 23:19	15° \mathfrak{A} 38'28			2456 Dec 07 18:30	0° \mathfrak{Z}	
evening set	2456 Jan 23 09:16	14° \mathfrak{A} 30'20		greatest brilliancy	2456 Dec 13 08:47	8° \mathfrak{Z} 21'08	-0.6m
inferior conj	2456 Jan 28 22:22	8° \mathfrak{A} 38'34	3°17'12	evening max el	2456 Dec 26 01:30	25° \mathfrak{Z} 05'21	20°13'40
minimum elong	2456 Jan 28 20:07	8° \mathfrak{A} 45'49	3°16'47	retrograde	2457 Jan 02 21:16	29° \mathfrak{Z} 41'03	
min. Earth dist.	2456 Jan 30 06:39	6° \mathfrak{A} 54'38	0.66209 AU	asc. node	2457 Jan 02 16:08	29° \mathfrak{Z} 40'48	
morning rise	2456 Feb 03 06:44	2° \mathfrak{A} 26'09		evening set	2457 Jan 06 15:26	28° \mathfrak{Z} 18'55	
	2456 Feb 07 06:52	30° \mathfrak{R} \mathfrak{Z}		inferior conj	2457 Jan 12 01:19	22° \mathfrak{Z} 13'54	2°47'20
direct	2456 Feb 09 14:35	29° \mathfrak{Z} 38'28		minimum elong	2457 Jan 11 22:43	22° \mathfrak{Z} 22'39	2°46'38
	2456 Feb 12 01:10	0° \mathfrak{A}		min. Earth dist.	2457 Jan 12 19:58	21° \mathfrak{Z} 10'51	0.67139 AU
morning max el	2456 Feb 22 05:39	7° \mathfrak{A} 07'24	26°10'08	morning rise	2457 Jan 17 05:48	16° \mathfrak{Z} 00'24	
desc. node	2456 Feb 23 19:08	8° \mathfrak{A} 44'59		direct	2457 Jan 23 00:05	13° \mathfrak{Z} 26'27	
	2456 Mar 11 00:16	0° \mathfrak{X}		morning max el	2457 Feb 03 14:24	20° \mathfrak{Z} 21'50	24°50'06
	2456 Mar 28 23:12	0° \mathfrak{Y}		desc. node	2457 Feb 09 16:11	27° \mathfrak{Z} 13'25	
morning set	2456 Mar 29 09:45	0° \mathfrak{Y} 48'57			2457 Feb 11 21:06	0° \mathfrak{A}	
max. Earth dist.	2456 Apr 02 09:16	8° \mathfrak{Y} 23'34	1.35253 AU		2457 Mar 04 04:38	0° \mathfrak{X}	
				morning set	2457 Mar 11 17:09	12° \mathfrak{X} 50'36	
superior conj	2456 Apr 07 10:33	18° \mathfrak{Y} 28'00	-1°02'13	max. Earth dist.	2457 Mar 15 08:41	19° \mathfrak{X} 25'54	1.37106 AU
minimum elong	2456 Apr 07 13:43	18° \mathfrak{Y} 44'10	1°01'39		2457 Mar 20 22:50	0° \mathfrak{Y}	
	2456 Apr 13 00:38	0° \mathfrak{B}					
asc. node	2456 Apr 13 18:27	1° \mathfrak{B} 32'21		superior conj	2457 Mar 21 21:01	1° \mathfrak{Y} 47'58	-1°28'30
evening rise	2456 Apr 15 05:26	4° \mathfrak{B} 32'50		minimum elong	2457 Mar 22 01:14	2° \mathfrak{Y} 08'36	1°27'55
	2456 Apr 29 17:09	0° Π		evening rise	2457 Mar 30 07:55	18° \mathfrak{Y} 39'42	
evening max el	2456 May 03 16:29	4° Π 31'01	20°29'46	asc. node	2457 Mar 31 15:29	21° \mathfrak{Y} 16'51	
retrograde	2456 May 14 16:44	9° Π 52'12			2457 Apr 05 04:20	0° \mathfrak{B}	
evening set	2456 May 16 17:58	9° Π 41'48		evening max el	2457 Apr 16 07:32	16° \mathfrak{B} 11'51	19°24'21
desc. node	2456 May 21 18:19	8° Π 00'24		retrograde	2457 Apr 25 14:45	20° \mathfrak{B} 41'57	
inferior conj	2456 May 25 22:36	5° Π 43'55	-1°13'19	evening set	2457 Apr 27 15:54	20° \mathfrak{B} 29'48	

inferior conj	2457 May 06 04:11	16°♄23'02	0°42'28		2458 Apr 13 22:09	30°♄♂	
minimum elong	2457 May 06 05:56	16°♄20'10	0°41'51	inferior conj	2458 Apr 17 05:33	27°♂♂38'23	2°12'36
desc. node	2457 May 08 15:21	14°♄46'46		minimum elong	2458 Apr 17 09:28	27°♂♂30'57	2°11'30
min. Earth dist.	2457 May 08 20:48	14°♄38'06	0.56027 AU	min. Earth dist.	2458 Apr 20 14:29	25°♂♂05'42	0.57746 AU
morning rise	2457 May 14 17:06	11°♄38'42		morning rise	2458 Apr 25 02:49	22°♂♂20'46	
direct	2457 May 19 09:03	10°♄49'09		desc. node	2458 Apr 25 12:23	22°♂♂09'57	
morning max el	2457 Jun 02 12:17	17°♄59'02	25°02'36	direct	2458 Apr 30 19:46	20°♂♂59'23	
	2457 Jun 12 10:46	0°♂		morning max el	2458 May 15 04:35	28°♂♂34'51	26°29'19
asc. node	2457 Jun 27 14:46	27°♂♂01'40			2458 May 16 14:24	0°♄	
morning set	2457 Jun 28 18:55	29°♂♂29'15			2458 Jun 06 00:43	0°♂	
	2457 Jun 29 00:44	0°♄		morning set	2458 Jun 13 05:39	14°♂♂20'33	
				asc. node	2458 Jun 14 11:49	17°♂♂00'27	
superior conj	2457 Jul 05 18:11	14°♄35'15	1°16'29	superior conj	2458 Jun 20 05:45	29°♂♂32'26	0°57'22
minimum elong	2457 Jul 05 15:47	14°♄22'11	1°16'08	minimum elong	2458 Jun 20 03:36	29°♂♂20'34	0°56'58
max. Earth dist.	2457 Jul 07 02:07	17°♄29'09	1.32728 AU		2458 Jun 20 10:46	0°♄	
evening rise	2457 Jul 12 22:10	29°♄51'24		max. Earth dist.	2458 Jun 20 12:56	0°♄11'55	1.32251 AU
	2457 Jul 12 23:51	0°♂		evening rise	2458 Jun 27 04:00	14°♄31'31	
	2457 Jul 29 16:58	0°♄			2458 Jul 05 00:18	0°♂	
desc. node	2457 Aug 04 14:40	8°♄28'47		desc. node	2458 Jul 22 11:42	26°♂♂34'39	
evening max el	2457 Aug 14 10:32	19°♄49'07	27°23'08		2458 Jul 25 13:11	0°♄	
retrograde	2457 Aug 28 05:07	27°♄05'45		evening max el	2458 Jul 27 14:55	2°♄04'09	26°52'27
evening set	2457 Sep 04 09:59	24°♄35'18		retrograde	2458 Aug 10 13:20	9°♄17'04	
min. Earth dist.	2457 Sep 08 00:13	21°♄38'51	0.62633 AU	evening set	2458 Aug 17 11:32	7°♄11'49	
inferior conj	2457 Sep 10 21:04	18°♄54'47	-3°47'31	min. Earth dist.	2458 Aug 21 05:04	4°♄33'06	0.60653 AU
minimum elong	2457 Sep 11 02:32	18°♄41'43	3°46'01	inferior conj	2458 Aug 24 10:31	1°♄51'00	-4°32'48
morning rise	2457 Sep 17 20:36	13°♄47'27		minimum elong	2458 Aug 24 15:22	1°♄40'47	4°31'58
direct	2457 Sep 20 07:00	13°♄20'33			2458 Aug 26 17:10	30°♄♂	
asc. node	2457 Sep 23 13:58	14°♄11'03		morning rise	2458 Aug 31 21:04	27°♂♂04'47	
morning max el	2457 Sep 27 00:44	16°♄47'20	17°51'35	direct	2458 Sep 03 06:46	26°♂♂42'17	
	2457 Oct 06 09:05	0°♄		asc. node	2458 Sep 10 11:02	0°♄11'37	
morning set	2457 Oct 13 03:40	11°♄53'22			2458 Sep 10 06:06	0°♄	
	2457 Oct 23 12:11	0°♄		morning max el	2458 Sep 10 13:40	0°♄17'57	18°04'55
superior conj	2457 Oct 24 11:44	1°♄39'48	0°47'22	morning set	2458 Sep 26 09:29	25°♄20'41	
minimum elong	2457 Oct 24 15:49	1°♄57'04	0°46'50		2458 Sep 28 21:25	0°♄	
max. Earth dist.	2457 Oct 31 10:14	13°♄08'12	1.43424 AU	superior conj	2458 Oct 06 05:28	13°♄23'52	1°17'31
desc. node	2457 Oct 31 14:01	13°♄23'30		minimum elong	2458 Oct 06 09:43	13°♄42'46	1°17'04
evening rise	2457 Nov 08 10:28	25°♄49'49		max. Earth dist.	2458 Oct 13 20:35	26°♄35'11	1.41715 AU
	2457 Nov 11 03:17	0°♄			2458 Oct 15 21:53	0°♄	
	2457 Dec 01 19:00	0°♄		desc. node	2458 Oct 18 11:02	4°♄09'37	
evening max el	2457 Dec 08 23:54	8°♄36'11	21°22'37	evening rise	2458 Oct 19 08:25	5°♄35'46	
retrograde	2457 Dec 17 18:48	13°♄49'30			2458 Nov 04 09:49	0°♄	
asc. node	2457 Dec 20 13:11	13°♄07'17		evening max el	2458 Nov 21 17:13	22°♄09'19	22°39'51
evening set	2457 Dec 21 23:02	12°♄12'02		retrograde	2458 Dec 01 14:13	28°♄01'15	
inferior conj	2457 Dec 27 07:31	5°♄56'59	2°09'02	evening set	2458 Dec 06 06:24	26°♄07'14	
minimum elong	2457 Dec 27 05:06	6°♄05'21	2°08'12	asc. node	2458 Dec 07 10:15	25°♄02'50	
min. Earth dist.	2457 Dec 27 14:04	5°♄34'22	0.67684 AU	inferior conj	2458 Dec 11 15:03	19°♄45'46	1°23'52
morning rise	2458 Jan 01 10:59	29°♄44'17		minimum elong	2458 Dec 11 13:15	19°♄52'00	1°23'10
	2458 Jan 01 04:03	30°♄♂		min. Earth dist.	2458 Dec 11 10:30	20°♄01'30	0.67871 AU
direct	2458 Jan 06 14:27	27°♄30'23		morning rise	2458 Dec 16 19:59	13°♄35'51	
	2458 Jan 12 19:05	0°♄		direct	2458 Dec 21 08:40	11°♄44'42	
morning max el	2458 Jan 16 23:13	3°♄40'31	23°21'53	morning max el	2458 Dec 30 11:35	17°♄06'02	21°55'05
desc. node	2458 Jan 27 13:14	16°♄26'02			2459 Jan 10 00:29	0°♄	
	2458 Feb 06 02:10	0°♄		desc. node	2459 Jan 14 10:16	6°♄30'33	
morning set	2458 Feb 21 00:15	23°♄38'15			2459 Jan 30 04:44	0°♄	
	2458 Feb 24 17:32	0°♄		morning set	2459 Feb 01 02:22	3°♄01'57	
max. Earth dist.	2458 Feb 25 03:21	0°♄42'43	1.39229 AU	max. Earth dist.	2459 Feb 07 01:35	12°♄47'39	1.41358 AU
superior conj	2458 Mar 04 17:26	14°♄23'14	-1°50'15	superior conj	2459 Feb 14 18:54	26°♄02'19	-2°03'37
minimum elong	2458 Mar 04 21:37	14°♄42'44	1°49'53	minimum elong	2459 Feb 14 21:00	26°♄11'36	2°03'33
	2458 Mar 12 21:54	0°♄			2459 Feb 17 00:25	0°♄	
evening rise	2458 Mar 14 02:16	2°♄17'09		evening rise	2459 Feb 25 09:05	15°♄17'28	
asc. node	2458 Mar 18 12:31	10°♄42'59		asc. node	2459 Mar 05 09:34	29°♄44'41	
evening max el	2458 Mar 30 08:44	28°♄29'55	18°38'51		2459 Mar 05 13:12	0°♄	
	2458 Apr 01 02:13	0°♄		evening max el	2459 Mar 13 16:54	11°♄17'12	18°13'24
retrograde	2458 Apr 07 06:01	2°♄21'21		retrograde	2459 Mar 20 16:02	14°♄46'46	
evening set	2458 Apr 09 12:58	2°♄03'01					

evening set	2459 Mar 23 05:09	14°♿19'35		inferior conj	2460 Mar 11 20:41	22°♿03'44	3°36'34
inferior conj	2459 Mar 30 04:03	9°♿33'55	3°09'15	minimum elong	2460 Mar 11 22:00	22°♿00'24	3°36'28
minimum elong	2459 Mar 30 07:14	9°♿26'51	3°08'40	min. Earth dist.	2460 Mar 14 19:45	19°♿04'01	0.61976 AU
min. Earth dist.	2459 Apr 02 13:12	6°♿35'19	0.59845 AU	morning rise	2460 Mar 18 06:57	16°♿05'44	
morning rise	2459 Apr 06 07:01	3°♿51'29		direct	2460 Mar 25 04:13	13°♿37'10	
desc. node	2459 Apr 12 09:26	1°♿54'14		desc. node	2460 Mar 29 06:28	14°♿24'27	
direct	2459 Apr 12 19:00	1°♿53'48		morning max el	2460 Apr 08 06:50	21°♿32'59	27°50'11
morning max el	2459 Apr 27 02:33	9°♿42'52	27°27'48		2460 Apr 15 15:49	0°♿	
	2459 May 12 17:18	0°♿			2460 May 04 18:43	0°♿	
morning set	2459 May 28 13:36	29°♿01'34		morning set	2460 May 11 16:46	13°♿25'59	
	2459 May 29 00:48	0°♿		max. Earth dist.	2460 May 17 10:42	25°♿31'48	1.32462 AU
asc. node	2459 Jun 01 08:52	7°♿06'33		asc. node	2460 May 18 05:54	27°♿15'47	
max. Earth dist.	2459 Jun 04 01:05	12°♿57'04	1.32162 AU				
				superior conj	2460 May 19 03:26	29°♿12'46	0°09'27
superior conj	2459 Jun 04 17:24	14°♿26'50	0°34'47	minimum elong	2460 May 19 02:59	29°♿10'21	0°09'21
minimum elong	2459 Jun 04 15:55	14°♿18'40	0°34'29	behind sun begin	2460 May 18 22:48	28°♿47'33	
evening rise	2459 Jun 11 13:46	29°♿21'01		behind sun end	2460 May 19 07:10	29°♿33'09	
	2459 Jun 11 21:08	0°♿			2460 May 19 12:06	0°♿	
	2459 Jun 28 10:53	0°♿		evening rise	2460 May 26 01:24	14°♿13'03	
desc. node	2459 Jul 09 08:43	13°♿23'31			2460 Jun 02 23:24	0°♿	
evening max el	2459 Jul 09 12:17	13°♿32'03	25°49'47	evening max el	2460 Jun 20 03:15	24°♿18'16	24°23'15
retrograde	2459 Jul 23 12:14	20°♿40'45		desc. node	2460 Jun 25 05:44	28°♿25'17	
evening set	2459 Jul 29 15:16	19°♿11'26			2460 Jun 28 03:26	0°♿	
min. Earth dist.	2459 Aug 03 00:37	16°♿33'36	0.58592 AU	retrograde	2460 Jul 04 00:05	1°♿18'29	
inferior conj	2459 Aug 06 06:34	14°♿12'11	-4°59'01	evening set	2460 Jul 08 19:22	0°♿26'54	
minimum elong	2459 Aug 06 08:21	14°♿08'55	4°58'56		2460 Jul 09 23:15	30°♿♿	
morning rise	2459 Aug 14 03:40	9°♿48'53		min. Earth dist.	2460 Jul 14 14:06	27°♿32'13	0.56722 AU
direct	2459 Aug 16 15:32	9°♿28'41		inferior conj	2460 Jul 17 06:38	25°♿50'10	-4°52'34
morning max el	2459 Aug 24 20:19	13°♿23'06	18°38'35	minimum elong	2460 Jul 17 03:04	25°♿55'51	4°52'14
asc. node	2459 Aug 28 08:06	17°♿20'34		morning rise	2460 Jul 25 13:27	21°♿47'41	
	2459 Sep 05 04:47	0°♿		direct	2460 Jul 28 05:24	21°♿28'32	
morning set	2459 Sep 10 03:00	9°♿21'54		morning max el	2460 Aug 06 17:44	25°♿53'57	19°33'35
					2460 Aug 10 10:43	0°♿	
superior conj	2459 Sep 18 20:50	26°♿11'52	1°36'02	asc. node	2460 Aug 14 05:08	5°♿23'19	
minimum elong	2459 Sep 18 23:34	26°♿24'45	1°35'50	morning set	2460 Aug 24 04:36	23°♿47'09	
	2459 Sep 20 21:51	0°♿			2460 Aug 27 06:34	0°♿	
max. Earth dist.	2459 Sep 26 02:25	9°♿20'33	1.39709 AU				
evening rise	2459 Sep 30 04:52	16°♿23'56		superior conj	2460 Sep 01 04:17	9°♿48'24	1°44'27
desc. node	2459 Oct 05 08:03	24°♿50'38		minimum elong	2460 Sep 01 05:10	9°♿52'47	1°44'25
	2459 Oct 08 14:17	0°♿		max. Earth dist.	2460 Sep 07 06:37	21°♿28'30	1.37660 AU
	2459 Oct 30 01:25	0°♿		evening rise	2460 Sep 11 00:53	28°♿18'09	
evening max el	2459 Nov 04 06:55	5°♿45'32	23°59'48		2460 Sep 11 23:56	0°♿	
retrograde	2459 Nov 15 06:16	12°♿12'33		desc. node	2460 Sep 21 05:06	15°♿22'35	
evening set	2459 Nov 20 11:55	10°♿01'38			2460 Sep 30 23:33	0°♿	
asc. node	2459 Nov 24 07:19	5°♿47'46		evening max el	2460 Oct 16 19:00	19°♿25'02	25°15'43
inferior conj	2459 Nov 25 22:06	3°♿37'36	0°33'08	retrograde	2460 Oct 28 18:07	26°♿19'29	
minimum elong	2459 Nov 25 21:19	3°♿40'16	0°32'49	evening set	2460 Nov 03 13:58	23°♿53'01	
min. Earth dist.	2459 Nov 25 06:54	4°♿29'06	0.67717 AU	min. Earth dist.	2460 Nov 08 00:56	18°♿55'01	0.67227 AU
	2459 Nov 28 17:50	30°♿♿		inferior conj	2460 Nov 09 02:55	17°♿30'34	-0°21'54
morning rise	2459 Dec 01 06:43	27°♿32'37		minimum elong	2460 Nov 09 03:28	17°♿28'46	0°21'39
direct	2459 Dec 05 05:37	26°♿03'56		asc. node	2460 Nov 10 04:21	16°♿08'47	
	2459 Dec 12 13:34	0°♿		morning rise	2460 Nov 14 17:13	11°♿32'50	
morning max el	2459 Dec 13 06:48	0°♿42'06	20°36'49	direct	2460 Nov 18 04:01	10°♿24'11	
desc. node	2460 Jan 01 07:18	26°♿17'42		morning max el	2460 Nov 25 09:58	14°♿29'32	19°31'35
	2460 Jan 03 18:27	0°♿			2460 Dec 07 05:05	0°♿	
morning set	2460 Jan 11 03:58	11°♿20'01		greatest brilliancy	2460 Dec 08 17:25	2°♿15'24	-0.7m
max. Earth dist.	2460 Jan 20 07:35	25°♿49'16	1.43195 AU	desc. node	2460 Dec 18 04:21	16°♿41'22	
	2460 Jan 22 21:15	0°♿		morning set	2460 Dec 20 01:31	19°♿35'51	
					2460 Dec 26 18:07	0°♿	
superior conj	2460 Jan 26 20:11	6°♿32'42	-2°03'40	max. Earth dist.	2461 Jan 01 20:33	9°♿35'38	1.44502 AU
minimum elong	2460 Jan 26 17:34	6°♿21'43	2°03'36				
evening rise	2460 Feb 08 00:10	27°♿31'29		superior conj	2461 Jan 05 19:15	15°♿52'41	-1°45'42
	2460 Feb 09 09:50	0°♿		minimum elong	2461 Jan 05 11:22	15°♿21'08	1°45'05
asc. node	2460 Feb 20 06:36	18°♿13'41			2461 Jan 14 11:35	0°♿	
evening max el	2460 Feb 25 04:41	24°♿24'02	18°07'36	evening rise	2461 Jan 19 19:18	8°♿51'51	
retrograde	2460 Mar 02 17:10	27°♿47'29			2461 Feb 01 17:11	0°♿	
evening set	2460 Mar 05 11:39	27°♿10'07		asc. node	2461 Feb 06 03:37	6°♿00'08	

evening max el	2461 Feb 07 17:11	7° H 43'06	18°20'44	greatest brilliancy	2462 Jan 08 06:46	1° \approx 29'25	-0.9m
retrograde	2461 Feb 14 04:38	11° H 13'32		evening max el	2462 Jan 22 03:56	21° \approx 09'41	18°51'53
evening set	2461 Feb 17 04:25	10° H 25'06		asc. node	2462 Jan 24 00:38	22° \approx 52'17	
inferior conj	2461 Feb 23 03:21	4° H 59'38	3°41'26	retrograde	2462 Jan 28 22:29	24° \approx 58'11	
minimum elong	2461 Feb 23 02:50	5° H 01'05	3°41'26	evening set	2462 Feb 01 04:20	23° \approx 57'42	
min. Earth dist.	2461 Feb 25 11:47	2° H 19'34	0.63900 AU	inferior conj	2462 Feb 06 20:17	18° \approx 15'05	3°29'45
	2461 Feb 27 17:57	30° R \approx		minimum elong	2462 Feb 06 18:29	18° \approx 20'38	3°29'31
morning rise	2461 Mar 01 00:30	28° \approx 52'55		min. Earth dist.	2462 Feb 08 13:14	16° \approx 08'17	0.65481 AU
direct	2461 Mar 07 21:51	26° \approx 05'39		morning rise	2462 Feb 12 08:16	12° \approx 03'58	
desc. node	2461 Mar 16 03:30	29° \approx 16'12		direct	2462 Feb 18 22:34	9° \approx 12'22	
	2461 Mar 17 03:14	0° H		desc. node	2462 Mar 03 00:33	15° \approx 54'45	
morning max el	2461 Mar 21 15:20	4° H 00'48	27°35'28	morning max el	2462 Mar 04 01:08	16° \approx 55'15	26°48'29
	2461 Apr 10 04:21	0° Y			2462 Mar 14 22:40	0° H	
morning set	2461 Apr 25 12:36	27° Y 24'49			2462 Apr 03 01:05	0° Y	
	2461 Apr 26 19:41	0° B		morning set	2462 Apr 08 21:54	10° Y 48'29	
max. Earth dist.	2461 Apr 30 13:29	7° B 41'09	1.33181 AU	max. Earth dist.	2462 Apr 13 05:50	19° Y 16'54	1.34359 AU
superior conj	2461 May 03 09:55	13° B 43'24	-0°17'53	superior conj	2462 Apr 17 10:49	27° Y 52'43	-0°46'07
minimum elong	2461 May 03 10:48	13° B 48'10	0°17'42	minimum elong	2462 Apr 17 13:11	28° Y 04'59	0°45'40
asc. node	2461 May 05 02:55	17° B 23'19			2462 Apr 18 11:15	0° B	
evening rise	2461 May 10 13:00	29° B 00'08		asc. node	2462 Apr 21 23:57	7° B 25'22	
	2461 May 11 00:23	0° II		evening rise	2462 Apr 24 22:44	13° B 36'34	
	2461 May 28 10:05	0° E			2462 May 03 09:03	0° II	
evening max el	2461 Jun 01 17:15	4° E 45'51	22°47'05	evening max el	2462 May 14 14:08	15° II 27'37	21°15'57
desc. node	2461 Jun 12 02:45	11° E 03'11		retrograde	2462 May 26 13:38	21° II 19'03	
retrograde	2461 Jun 14 23:42	11° E 22'04		evening set	2462 May 28 20:38	21° II 06'56	
evening set	2461 Jun 18 07:07	10° E 58'01		desc. node	2462 May 29 23:44	20° II 52'30	
min. Earth dist.	2461 Jun 26 01:38	7° E 32'36	0.55384 AU	inferior conj	2462 Jun 07 05:58	17° II 07'59	-2°21'55
inferior conj	2461 Jun 27 11:44	6° E 43'38	-4°00'06	minimum elong	2462 Jun 06 23:30	17° II 17'04	2°19'44
minimum elong	2461 Jun 27 03:56	6° E 54'51	3°58'18	min. Earth dist.	2462 Jun 07 13:39	16° II 57'11	0.54885 AU
morning rise	2461 Jul 06 03:06	2° E 51'50		morning rise	2462 Jun 16 02:42	13° II 09'05	
direct	2461 Jul 09 00:40	2° E 32'17		direct	2462 Jun 19 10:39	12° II 45'01	
morning max el	2461 Jul 20 03:52	7° E 42'03	20°49'33	morning max el	2462 Jul 02 02:56	18° II 46'27	22°23'00
asc. node	2461 Aug 01 02:10	24° E 06'38			2462 Jul 11 06:13	0° E	
	2461 Aug 04 06:08	0° O		asc. node	2462 Jul 18 23:13	13° E 20'40	
morning set	2461 Aug 08 11:32	8° O 28'03		morning set	2462 Jul 23 21:44	23° E 18'55	
					2462 Jul 27 01:31	0° O	
superior conj	2461 Aug 15 23:06	23° O 58'46	1°44'33	superior conj	2462 Jul 31 01:45	8° O 32'26	1°37'52
minimum elong	2461 Aug 15 22:25	23° O 55'15	1°44'31	minimum elong	2462 Jul 30 23:59	8° O 23'04	1°37'44
	2461 Aug 18 22:28	0° P		max. Earth dist.	2462 Aug 03 07:07	15° O 16'56	1.34297 AU
max. Earth dist.	2461 Aug 20 14:35	3° P 18'34	1.35806 AU	evening rise	2462 Aug 08 00:12	24° O 44'43	
evening rise	2461 Aug 24 16:50	11° P 09'03			2462 Aug 10 18:03	0° P	
	2461 Sep 04 12:23	0° A		desc. node	2462 Aug 25 23:06	25° P 34'24	
desc. node	2461 Sep 08 02:07	5° A 39'27			2462 Aug 29 00:24	0° A	
	2461 Sep 26 07:21	0° M		evening max el	2462 Sep 11 19:26	16° A 36'19	27°06'07
evening max el	2461 Sep 29 07:03	3° M 04'22	26°20'24	retrograde	2462 Sep 25 02:35	23° A 54'00	
retrograde	2461 Oct 12 01:08	10° M 15'47		evening set	2462 Oct 01 23:35	21° A 10'55	
evening set	2461 Oct 18 10:37	7° M 37'38		min. Earth dist.	2462 Oct 05 20:39	17° A 24'47	0.65198 AU
min. Earth dist.	2461 Oct 22 14:18	3° M 15'26	0.66386 AU	inferior conj	2462 Oct 07 22:05	15° A 05'23	-2°19'02
inferior conj	2461 Oct 24 03:37	1° M 21'19	-1°19'53	minimum elong	2462 Oct 08 01:51	14° A 54'46	2°17'36
minimum elong	2461 Oct 24 05:45	1° M 14'47	1°18'59	morning rise	2462 Oct 14 04:57	9° A 30'27	
	2461 Oct 25 06:32	30° R A		asc. node	2462 Oct 14 22:25	9° A 12'07	
asc. node	2461 Oct 28 01:22	27° A 02'28		direct	2462 Oct 16 22:10	8° A 50'44	
morning rise	2461 Oct 30 01:24	25° A 33'28		morning max el	2462 Oct 23 10:27	12° A 20'56	18°08'28
direct	2461 Nov 02 02:12	24° A 41'14			2462 Nov 04 19:31	0° M	
morning max el	2461 Nov 08 19:57	28° A 24'24	18°41'46	morning set	2462 Nov 10 17:36	9° M 45'13	
	2461 Nov 10 07:30	0° M		desc. node	2462 Nov 21 22:25	27° M 59'17	
morning set	2461 Nov 29 18:56	28° M 56'46			2462 Nov 23 04:38	0° A	
	2461 Nov 30 10:54	0° A		superior conj	2462 Nov 25 04:01	3° A 08'27	-0°21'42
desc. node	2461 Dec 05 01:24	7° A 16'45		minimum elong	2462 Nov 25 01:15	2° A 57'30	0°21'20
superior conj	2461 Dec 15 23:35	24° A 27'12	-1°09'12	max. Earth dist.	2462 Nov 28 08:59	8° A 12'35	1.45021 AU
minimum elong	2461 Dec 15 15:23	23° A 54'59	1°08'14	evening rise	2462 Dec 11 13:30	28° A 47'06	
max. Earth dist.	2461 Dec 15 13:54	23° A 49'10	1.45130 AU		2462 Dec 12 08:19	0° B	
	2461 Dec 19 12:16	0° B		greatest brilliancy	2462 Dec 24 09:36	18° B 30'32	-0.7m
evening rise	2461 Dec 31 15:24	19° B 15'11			2463 Jan 01 11:40	0° \approx	
	2462 Jan 07 08:20	0° \approx					

evening max el	2463 Jan 05 10:54	4° \approx 39'24	19°39'38		2463 Nov 15 21:03	0° \nearrow	
asc. node	2463 Jan 10 21:41	8° \approx 35'14		evening rise	2463 Nov 20 22:57	7° \nearrow 53'15	
retrograde	2463 Jan 12 19:34	8° \approx 55'15			2463 Dec 05 15:52	0° \searrow	
evening set	2463 Jan 16 08:49	7° \approx 41'24		evening max el	2463 Dec 19 12:40	18° \searrow 10'21	20°41'39
inferior conj	2463 Jan 21 20:19	1° \approx 43'56	3°05'40	retrograde	2463 Dec 27 17:31	23° \searrow 01'02	
minimum elong	2463 Jan 21 17:51	1° \approx 52'03	3°05'07	asc. node	2463 Dec 28 18:44	22° \searrow 54'53	
min. Earth dist.	2463 Jan 22 22:42	0° \approx 17'04	0.66658 AU	evening set	2463 Dec 31 15:51	21° \searrow 32'23	
	2463 Jan 23 03:56	30° \nwarrow 3		inferior conj	2464 Jan 06 00:56	15° \searrow 22'46	2°32'00
morning rise	2463 Jan 27 02:40	25° \searrow 30'56		minimum elong	2464 Jan 05 22:21	15° \searrow 31'34	2°31'12
direct	2463 Feb 02 05:10	22° \searrow 47'48		min. Earth dist.	2464 Jan 06 14:14	14° \searrow 37'17	0.67427 AU
	2463 Feb 14 08:38	0° \approx		morning rise	2464 Jan 11 04:42	9° \searrow 09'39	
morning max el	2463 Feb 14 10:12	0° \approx 03'56	25°37'37	direct	2464 Jan 16 16:49	6° \searrow 43'46	
desc. node	2463 Feb 17 21:36	3° \approx 49'23		morning max el	2464 Jan 27 18:37	13° \searrow 20'01	24°12'53
	2463 Mar 08 20:43	0° \nwarrow		desc. node	2464 Feb 04 18:40	22° \searrow 38'15	
morning set	2463 Mar 22 16:15	23° \nwarrow 23'30			2464 Feb 10 06:20	0° \approx	
	2463 Mar 26 05:29	0° \nwarrow			2464 Feb 29 17:05	0° \nwarrow	
max. Earth dist.	2463 Mar 26 10:31	0° \nwarrow 23'53	1.35997 AU	morning set	2464 Mar 03 14:01	4° \nwarrow 54'53	
				max. Earth dist.	2464 Mar 07 07:13	11° \nwarrow 28'44	1.38000 AU
superior conj	2463 Apr 01 03:28	11° \nwarrow 32'45	-1°13'44	superior conj	2464 Mar 14 08:30	24° \nwarrow 34'45	-1°38'30
minimum elong	2463 Apr 01 07:10	11° \nwarrow 51'16	1°13'08	minimum elong	2464 Mar 14 12:53	24° \nwarrow 55'48	1°37'58
asc. node	2463 Apr 08 20:59	27° \nwarrow 17'11			2464 Mar 17 03:45	0° \nwarrow	
evening rise	2463 Apr 09 04:31	27° \nwarrow 55'30		evening rise	2464 Mar 23 03:55	11° \nwarrow 50'35	
	2463 Apr 10 05:06	0° \nwarrow		asc. node	2464 Mar 25 18:02	16° \nwarrow 54'21	
evening max el	2463 Apr 26 22:23	26° \nwarrow 44'15	19°59'35		2464 Apr 02 01:21	0° \nwarrow	
	2463 May 01 03:48	0° \nwarrow		evening max el	2464 Apr 08 18:01	8° \nwarrow 40'54	19°02'26
retrograde	2463 May 07 04:30	1° \nwarrow 42'10		retrograde	2464 Apr 17 09:21	12° \nwarrow 52'41	
evening set	2463 May 09 04:40	1° \nwarrow 31'36		evening set	2464 Apr 19 12:49	12° \nwarrow 38'13	
	2463 May 13 17:08	30° \nwarrow 8		inferior conj	2464 Apr 27 16:38	8° \nwarrow 24'07	1°24'48
desc. node	2463 May 16 20:45	28° \nwarrow 8'17'29		minimum elong	2464 Apr 27 19:45	8° \nwarrow 18'42	1°23'46
inferior conj	2463 May 18 03:18	27° \nwarrow 31'47	-0°22'21	min. Earth dist.	2464 Apr 30 18:14	6° \nwarrow 17'04	0.56690 AU
minimum elong	2463 May 18 02:16	27° \nwarrow 33'21	0°21'57	desc. node	2464 May 02 17:49	5° \nwarrow 02'01	
min. Earth dist.	2463 May 20 02:49	26° \nwarrow 20'12	0.55354 AU	morning rise	2464 May 05 23:36	3° \nwarrow 25'16	
morning rise	2463 May 26 21:56	23° \nwarrow 8'40		direct	2464 May 11 02:25	2° \nwarrow 23'35	
direct	2463 May 31 00:27	22° \nwarrow 30'46		morning max el	2464 May 25 09:06	9° \nwarrow 45'16	25°42'23
morning max el	2463 Jun 13 18:35	29° \nwarrow 8'18'46	24°05'20		2464 Jun 09 16:18	0° \nwarrow	
	2463 Jun 14 11:38	0° \nwarrow		morning set	2464 Jun 21 21:00	23° \nwarrow 08'51	
	2463 Jul 04 08:59	0° \nwarrow		asc. node	2464 Jun 21 17:19	22° \nwarrow 49'23	
asc. node	2463 Jul 05 20:17	2° \nwarrow 57'12			2464 Jun 25 01:37	0° \nwarrow	
morning set	2463 Jul 08 09:27	8° \nwarrow 14'25					
superior conj	2463 Jul 15 09:32	23° \nwarrow 20'48	1°25'39	superior conj	2464 Jun 28 20:15	8° \nwarrow 16'23	1°08'50
minimum elong	2463 Jul 15 07:14	23° \nwarrow 08'17	1°25'22	minimum elong	2464 Jun 28 17:54	8° \nwarrow 03'30	1°08'27
max. Earth dist.	2463 Jul 17 08:56	27° \nwarrow 36'03	1.33183 AU	max. Earth dist.	2464 Jun 29 17:31	10° \nwarrow 12'52	1.32473 AU
	2463 Jul 18 11:57	0° \nwarrow		evening rise	2464 Jul 05 21:19	23° \nwarrow 24'03	
evening rise	2463 Jul 22 18:49	8° \nwarrow 53'16			2464 Jul 09 03:29	0° \nwarrow	
	2463 Aug 03 03:50	0° \nwarrow			2464 Jul 26 23:39	0° \nwarrow	
desc. node	2463 Aug 12 20:05	14° \nwarrow 58'19		desc. node	2464 Jul 29 17:07	3° \nwarrow 37'44	
	2463 Aug 25 11:17	0° \nwarrow		evening max el	2464 Aug 06 14:13	12° \nwarrow 28'01	27°14'15
evening max el	2463 Aug 25 06:42	29° \nwarrow 49'10	27°25'52	retrograde	2464 Aug 20 10:15	19° \nwarrow 42'39	
retrograde	2463 Sep 07 21:51	7° \nwarrow 06'21		evening set	2464 Aug 27 13:55	17° \nwarrow 21'11	
evening set	2463 Sep 15 01:58	4° \nwarrow 27'56		min. Earth dist.	2464 Aug 31 04:24	14° \nwarrow 34'23	0.61816 AU
min. Earth dist.	2463 Sep 18 17:51	1° \nwarrow 15'21	0.63663 AU	inferior conj	2464 Sep 03 05:38	11° \nwarrow 49'07	-4°08'21
	2463 Sep 19 23:42	30° \nwarrow 8		minimum elong	2464 Sep 03 11:05	11° \nwarrow 36'46	4°07'04
inferior conj	2463 Sep 21 07:49	28° \nwarrow 37'32	-3°16'37	morning rise	2464 Sep 10 09:52	6° \nwarrow 50'33	
minimum elong	2463 Sep 21 12:53	28° \nwarrow 24'34	3°14'59	direct	2464 Sep 12 19:45	6° \nwarrow 25'42	
morning rise	2463 Sep 28 01:00	23° \nwarrow 18'59		asc. node	2464 Sep 17 16:34	8° \nwarrow 10'20	
direct	2463 Sep 30 13:13	22° \nwarrow 48'12		morning max el	2464 Sep 19 17:52	9° \nwarrow 54'46	17°54'55
asc. node	2463 Oct 01 19:29	22° \nwarrow 56'08			2464 Oct 02 23:01	0° \nwarrow	
morning max el	2463 Oct 07 02:46	26° \nwarrow 13'41	17°52'33	morning set	2464 Oct 05 15:35	4° \nwarrow 52'31	
	2463 Oct 10 08:04	0° \nwarrow					
morning set	2463 Oct 23 18:38	21° \nwarrow 50'32		superior conj	2464 Oct 16 07:00	23° \nwarrow 50'50	1°01'36
	2463 Oct 28 12:20	0° \nwarrow		minimum elong	2464 Oct 16 11:28	24° \nwarrow 10'06	1°01'03
					2464 Oct 19 21:35	0° \nwarrow	
superior conj	2463 Nov 05 04:00	12° \nwarrow 49'48	0°24'40	max. Earth dist.	2464 Oct 23 16:41	6° \nwarrow 18'29	1.42753 AU
minimum elong	2463 Nov 05 06:35	13° \nwarrow 00'25	0°24'18	desc. node	2464 Oct 25 16:27	9° \nwarrow 33'05	
desc. node	2463 Nov 08 19:26	18° \nwarrow 45'57		evening rise	2464 Oct 30 11:48	17° \nwarrow 12'57	
max. Earth dist.	2463 Nov 11 02:57	22° \nwarrow 28'49	1.44196 AU		2464 Nov 07 19:34	0° \nwarrow	

	2464 Nov 29 18:24	0°♄		desc. node	2465 Oct 12 13:29	0°♄17'23	
evening max el	2464 Dec 01 08:45	1°♄41'48	21°54'37		2465 Nov 01 11:37	0°♄	
retrograde	2464 Dec 10 14:24	7°♄11'38		evening max el	2465 Nov 14 00:07	15°♄15'29	23°13'48
evening set	2464 Dec 14 23:35	5°♄26'59		retrograde	2465 Nov 24 08:41	21°♄23'44	
asc. node	2464 Dec 14 15:48	5°♄42'07		evening set	2465 Nov 29 06:23	19°♄22'26	
	2464 Dec 19 17:05	30°♄♂		asc. node	2465 Dec 01 12:51	17°♄03'48	
inferior conj	2464 Dec 20 07:58	29°♄08'33	1°50'37	inferior conj	2465 Dec 04 15:31	12°♄59'05	1°02'58
minimum elong	2464 Dec 20 05:45	29°♄16'13	1°49'49	minimum elong	2465 Dec 04 14:06	13°♄03'57	1°02'23
min. Earth dist.	2464 Dec 20 09:36	29°♄02'53	0.67812 AU	min. Earth dist.	2465 Dec 04 06:22	13°♄30'31	0.67846 AU
morning rise	2464 Dec 25 11:47	22°♄56'55		morning rise	2465 Dec 09 21:44	6°♄50'51	
direct	2464 Dec 30 08:47	20°♄52'52		direct	2465 Dec 14 04:17	5°♄09'35	
morning max el	2465 Jan 09 04:42	26°♄41'54	22°44'16	morning max el	2465 Dec 22 19:47	10°♄12'02	21°20'19
	2465 Jan 12 05:53	0°♄			2466 Jan 07 03:34	0°♄	
desc. node	2465 Jan 21 15:43	12°♄05'38		desc. node	2466 Jan 08 12:45	2°♄00'36	
	2465 Feb 02 20:54	0°♄		morning set	2466 Jan 22 23:24	23°♄58'40	
morning set	2465 Feb 12 09:08	15°♄07'28			2466 Jan 26 18:05	0°♄	
max. Earth dist.	2465 Feb 17 03:02	23°♄05'12	1.40153 AU	max. Earth dist.	2466 Jan 30 03:58	5°♄33'01	1.42187 AU
	2465 Feb 21 02:32	0°♄					
				superior conj	2466 Feb 06 13:12	17°♄58'25	-2°05'34
superior conj	2465 Feb 24 21:29	6°♄47'37	-1°57'13	minimum elong	2466 Feb 06 13:36	18°♄00'06	2°05'35
minimum elong	2465 Feb 25 01:07	7°♄04'05	1°57'00		2466 Feb 13 09:16	0°♄	
evening rise	2465 Mar 06 17:51	25°♄13'48		evening rise	2466 Feb 17 18:31	7°♄55'28	
	2465 Mar 09 06:25	0°♄		asc. node	2466 Feb 27 12:08	25°♄00'17	
asc. node	2465 Mar 12 15:05	6°♄11'18			2466 Mar 02 20:27	0°♄	
evening max el	2465 Mar 22 22:33	21°♄12'29	18°25'33	evening max el	2466 Mar 06 08:38	4°♄09'07	18°08'35
retrograde	2465 Mar 30 09:10	24°♄53'03		retrograde	2466 Mar 13 02:04	7°♄34'23	
evening set	2465 Apr 01 18:39	24°♄31'18		evening set	2466 Mar 15 17:26	7°♄03'09	
inferior conj	2465 Apr 09 03:17	19°♄57'40	2°40'38	inferior conj	2466 Mar 22 09:59	2°♄08'51	3°23'59
minimum elong	2465 Apr 09 07:08	19°♄49'49	2°39'42	minimum elong	2466 Mar 22 12:25	2°♄03'06	3°23'39
min. Earth dist.	2465 Apr 12 13:52	17°♄10'52	0.58607 AU		2466 Mar 24 16:28	30°♄♂	
morning rise	2465 Apr 16 16:44	14°♄27'54		min. Earth dist.	2466 Mar 25 15:53	29°♄06'28	0.60761 AU
desc. node	2465 Apr 19 14:52	13°♄17'27		morning rise	2466 Mar 29 05:26	26°♄18'33	
direct	2465 Apr 22 18:33	12°♄51'16		direct	2466 Apr 04 22:37	24°♄06'13	
morning max el	2465 May 07 03:52	20°♄34'03	26°58'25	desc. node	2466 Apr 06 11:55	24°♄12'59	
	2465 May 15 06:56	0°♄			2466 Apr 17 01:30	0°♄	
	2465 Jun 02 09:11	0°♄		morning max el	2466 Apr 19 04:41	1°♄59'58	27°41'54
morning set	2465 Jun 06 06:47	7°♄56'57			2466 May 09 14:22	0°♄	
asc. node	2465 Jun 08 14:22	12°♄52'07		morning set	2466 May 21 12:55	22°♄31'34	
					2466 May 25 02:02	0°♄	
superior conj	2465 Jun 13 08:04	23°♄13'16	0°48'11	asc. node	2466 May 26 11:24	3°♄00'00	
minimum elong	2465 Jun 13 06:09	23°♄02'41	0°47'48	max. Earth dist.	2466 May 27 16:43	5°♄39'37	1.32235 AU
max. Earth dist.	2465 Jun 13 05:24	22°♄58'33	1.32159 AU				
	2465 Jun 16 10:07	0°♄		superior conj	2466 May 28 19:13	8°♄04'39	0°24'21
evening rise	2465 Jun 20 05:05	8°♄08'59		minimum elong	2466 May 28 18:08	7°♄58'43	0°24'06
	2465 Jul 01 14:14	0°♄		evening rise	2466 Jun 04 15:49	22°♄59'54	
desc. node	2465 Jul 16 14:08	21°♄14'04			2466 Jun 08 00:50	0°♄	
evening max el	2465 Jul 19 15:30	24°♄22'20	26°29'22		2466 Jun 26 08:38	0°♄	
	2465 Jul 27 08:30	0°♄		evening max el	2466 Jul 01 09:40	5°♄30'08	25°15'12
retrograde	2465 Aug 02 14:55	1°♄34'20		desc. node	2466 Jul 03 11:09	7°♄21'15	
	2465 Aug 08 17:45	30°♄♂		retrograde	2466 Jul 15 09:40	12°♄36'56	
evening set	2465 Aug 09 06:43	29°♄43'00		evening set	2466 Jul 21 00:12	11°♄24'18	
min. Earth dist.	2465 Aug 13 04:49	27°♄07'12	0.59770 AU	min. Earth dist.	2466 Jul 25 21:33	8°♄40'58	0.57747 AU
inferior conj	2465 Aug 16 12:02	24°♄31'07	-4°47'01	inferior conj	2466 Jul 28 23:40	6°♄34'10	-5°01'13
minimum elong	2465 Aug 16 15:56	24°♄23'23	4°46'31	minimum elong	2466 Jul 28 23:22	6°♄34'42	5°01'13
morning rise	2465 Aug 24 03:13	19°♄54'58		morning rise	2466 Aug 06 01:01	2°♄20'16	
direct	2465 Aug 26 13:29	19°♄33'44		direct	2466 Aug 08 14:13	2°♄00'48	
morning max el	2465 Sep 03 04:35	23°♄15'52	18°16'46	morning max el	2466 Aug 17 07:37	6°♄07'16	18°59'23
asc. node	2465 Sep 04 13:36	24°♄41'38		asc. node	2466 Aug 22 10:37	12°♄14'45	
	2465 Sep 08 14:17	0°♄			2466 Sep 01 14:04	0°♄	
morning set	2465 Sep 19 02:51	18°♄35'12		morning set	2466 Sep 03 00:07	2°♄47'05	
	2465 Sep 25 03:43	0°♄					
				superior conj	2466 Sep 11 09:24	19°♄14'09	1°40'44
superior conj	2465 Sep 28 10:38	6°♄04'11	1°26'42	minimum elong	2466 Sep 11 11:22	19°♄23'30	1°40'37
minimum elong	2465 Sep 28 14:21	6°♄21'06	1°26'21		2466 Sep 17 03:44	0°♄	
max. Earth dist.	2465 Oct 06 00:35	19°♄26'46	1.40880 AU	max. Earth dist.	2466 Sep 18 04:36	1°♄52'13	1.38823 AU
evening rise	2465 Oct 10 18:37	27°♄23'13		evening rise	2466 Sep 22 01:18	8°♄39'59	
	2465 Oct 12 09:10	0°♄		desc. node	2466 Sep 29 10:30	20°♄55'04	

	2466 Oct 05 06:57	0°♍		minimum elong	2467 Aug 25 22:16	3°♎06'38	1°45'24
evening max el	2466 Oct 27 12:54	28°♍53'36	24°33'05	max. Earth dist.	2467 Aug 31 09:49	13°♎49'44	1.36836 AU
	2466 Oct 28 16:34	0°♊		evening rise	2467 Sep 04 06:17	20°♎59'23	
retrograde	2466 Nov 07 23:07	5°♊33'51			2467 Sep 09 09:04	0°♊	
evening set	2466 Nov 13 10:38	3°♊16'19		desc. node	2467 Sep 16 07:29	11°♊21'11	
	2466 Nov 16 12:25	30°♋♍			2467 Sep 29 05:25	0°♍	
min. Earth dist.	2466 Nov 18 02:10	27°♍58'00	0.67544 AU	evening max el	2467 Oct 10 01:03	12°♍34'16	25°45'14
asc. node	2466 Nov 18 09:52	27°♍32'20		retrograde	2467 Oct 22 08:49	19°♍36'38	
inferior conj	2466 Nov 18 21:50	26°♍52'20	0°10'17	evening set	2467 Oct 28 10:35	17°♍04'52	
minimum elong	2466 Nov 18 21:35	26°♍53'11	0°10'11	min. Earth dist.	2467 Nov 01 18:29	12°♍21'54	0.66908 AU
transit middle	2466 Nov 18 21:35	26°♍53'11	0°10'11	inferior conj	2467 Nov 03 01:07	10°♍44'42	-0°46'12
transit begin	2466 Nov 18 19:27	27°♍00'19		minimum elong	2467 Nov 03 02:19	10°♍40'52	0°45'41
transit end	2466 Nov 18 23:43	26°♍46'02		asc. node	2467 Nov 05 06:53	8°♍00'18	
morning rise	2466 Nov 24 08:36	20°♍49'50		morning rise	2467 Nov 08 18:21	4°♍50'41	
direct	2466 Nov 28 02:07	19°♍29'57		direct	2467 Nov 12 00:44	3°♍49'17	
morning max el	2466 Dec 05 18:18	23°♍53'08	20°07'16	morning max el	2467 Nov 19 00:29	7°♍43'45	19°08'29
	2466 Dec 10 23:49	0°♊			2467 Dec 05 01:51	0°♊	
desc. node	2466 Dec 26 09:47	22°♊15'49		morning set	2467 Dec 11 23:51	10°♊44'25	
	2466 Dec 31 11:14	0°♊		desc. node	2467 Dec 13 06:47	12°♊44'58	
morning set	2467 Jan 01 20:06	2°♊06'46			2467 Dec 24 07:31	0°♊	
max. Earth dist.	2467 Jan 12 12:48	18°♊54'45	1.43828 AU	max. Earth dist.	2467 Dec 26 04:25	2°♊56'36	1.44864 AU
superior conj	2467 Jan 18 03:22	27°♊59'16	-1°58'27	superior conj	2467 Dec 28 16:49	6°♊55'10	-1°32'15
minimum elong	2467 Jan 17 22:17	27°♊38'28	1°58'11	minimum elong	2467 Dec 28 07:55	6°♊19'58	1°31'23
	2467 Jan 19 08:46	0°♋		evening rise	2468 Jan 12 11:12	0°♋44'07	
evening rise	2467 Jan 31 01:40	19°♋47'51			2468 Jan 12 00:27	0°♋	
	2467 Feb 05 23:47	0°♋			2468 Jan 31 15:47	0°♋	
asc. node	2467 Feb 14 09:10	13°♋13'00		asc. node	2468 Feb 01 06:11	0°♋38'16	
evening max el	2467 Feb 17 21:09	17°♋22'48	18°10'54	evening max el	2468 Feb 01 09:15	0°♋46'05	18°31'48
retrograde	2467 Feb 24 07:58	20°♋47'19		retrograde	2468 Feb 07 22:35	4°♋22'34	
evening set	2467 Feb 27 04:45	20°♋05'19		evening set	2468 Feb 11 00:56	3°♋28'58	
inferior conj	2467 Mar 05 09:05	14°♋50'50	3°40'56		2468 Feb 15 01:23	30°♋♋	
minimum elong	2467 Mar 05 09:34	14°♋49'32	3°40'56	inferior conj	2468 Feb 16 20:33	27°♋55'48	3°38'12
min. Earth dist.	2467 Mar 08 02:20	11°♋57'14	0.62840 AU	minimum elong	2468 Feb 16 19:25	27°♋59'08	3°38'07
morning rise	2467 Mar 11 13:20	8°♋48'41		min. Earth dist.	2468 Feb 18 22:17	25°♋29'00	0.64629 AU
direct	2467 Mar 18 11:53	6°♋10'11		morning rise	2468 Feb 22 13:22	21°♋47'04	
desc. node	2467 Mar 24 08:57	7°♋47'51		direct	2468 Feb 29 08:31	18°♋56'29	
morning max el	2467 Apr 01 10:50	14°♋06'28	27°48'05	desc. node	2468 Mar 10 05:59	23°♋29'22	
	2467 Apr 14 06:55	0°♌		morning max el	2468 Mar 13 20:09	26°♋46'58	27°18'56
	2467 May 02 02:52	0°♌			2468 Mar 16 20:31	0°♌	
morning set	2467 May 05 13:15	6°♌45'46			2468 Apr 06 21:44	0°♌	
max. Earth dist.	2467 May 10 23:42	18°♌03'55	1.32718 AU	morning set	2468 Apr 18 05:04	20°♌31'06	
					2468 Apr 22 22:29	0°♌	
superior conj	2467 May 13 03:57	22°♌44'49	-0°01'59	max. Earth dist.	2468 Apr 22 22:35	0°♌00'31	1.33632 AU
minimum elong	2467 May 13 04:03	22°♌45'19	0°01'58				
behind sun begin	2467 May 12 22:52	22°♌17'15		superior conj	2468 Apr 26 08:23	7°♌07'34	-0°29'50
behind sun end	2467 May 13 09:14	23°♌13'24		minimum elong	2468 Apr 26 09:54	7°♌15'33	0°29'31
asc. node	2467 May 13 08:26	23°♌09'00		asc. node	2468 Apr 29 05:28	13°♌15'04	
	2467 May 16 12:09	0°♍		evening rise	2468 May 03 14:44	22°♌34'23	
evening rise	2467 May 20 03:39	7°♍50'27			2468 May 07 05:34	0°♍	
	2467 May 31 18:08	0°♍		evening max el	2468 May 24 15:37	26°♍35'22	22°06'54
evening max el	2467 Jun 12 23:28	16°♍04'55	23°42'36		2468 May 28 19:06	0°♍	
desc. node	2467 Jun 20 08:10	21°♍25'57		retrograde	2468 Jun 06 10:24	2°♍54'21	
retrograde	2467 Jun 26 15:59	22°♍56'39		desc. node	2468 Jun 06 05:11	2°♍54'14	
evening set	2467 Jun 30 19:31	22°♍18'54		evening set	2468 Jun 09 05:36	2°♍36'56	
min. Earth dist.	2467 Jul 07 09:52	19°♍12'35	0.56068 AU		2468 Jun 15 21:36	30°♋♍	
inferior conj	2467 Jul 09 15:09	17°♍52'18	-4°36'25	min. Earth dist.	2468 Jun 17 21:04	28°♍54'51	0.55060 AU
minimum elong	2467 Jul 09 09:20	18°♍01'07	4°35'32	inferior conj	2468 Jun 18 14:13	28°♍30'47	-3°23'08
morning rise	2467 Jul 18 01:43	13°♍55'42		minimum elong	2468 Jun 18 06:13	28°♍42'02	3°20'51
direct	2467 Jul 20 19:56	13°♍36'31		morning rise	2468 Jun 27 08:32	24°♍38'48	
morning max el	2467 Jul 31 00:13	18°♍19'44	20°03'27	direct	2468 Jun 30 09:58	24°♍17'55	
	2467 Aug 08 23:00	0°♎		morning max el	2468 Jul 12 05:21	29°♍48'46	21°27'37
asc. node	2467 Aug 09 07:39	0°♎35'54			2468 Jul 12 10:10	0°♍	
morning set	2467 Aug 18 04:14	17°♎19'27		asc. node	2468 Jul 26 04:42	19°♍33'52	
	2467 Aug 24 09:15	0°♎			2468 Jul 31 12:24	0°♎	
				morning set	2468 Aug 01 12:50	2°♎06'03	
superior conj	2467 Aug 25 22:06	3°♎05'47	1°45'24				

superior conj	2468 Aug 08 20:40	17°♎27'43	1°42'27	superior conj	2469 Jul 24 01:50	2°♏09'01	1°33'18
minimum elong	2468 Aug 08 19:27	17°♎21'24	1°42'24	minimum elong	2469 Jul 23 23:46	1°♏57'59	1°33'06
max. Earth dist.	2468 Aug 12 21:31	25°♎43'06	1.35116 AU	max. Earth dist.	2469 Jul 26 18:04	7°♏49'27	1.33770 AU
	2468 Aug 15 01:22	0°♎		evening rise	2469 Jul 31 17:59	18°♏02'07	
evening rise	2468 Aug 17 05:23	4°♎11'09			2469 Aug 07 01:24	0°♎	
	2468 Sep 01 05:01	0°♏		desc. node	2469 Aug 20 01:32	21°♎13'30	
desc. node	2468 Sep 02 04:30	1°♏30'10			2469 Aug 26 11:46	0°♏	
evening max el	2468 Sep 21 13:20	26°♏11'54	26°42'35	evening max el	2469 Sep 04 01:13	9°♏36'21	27°17'57
	2468 Sep 26 00:19	0°♎		retrograde	2469 Sep 17 12:17	16°♏55'00	
retrograde	2468 Oct 04 13:19	3°♎26'29		evening set	2469 Sep 24 13:07	14°♏12'08	
evening set	2468 Oct 11 04:15	0°♎45'08		min. Earth dist.	2469 Sep 28 07:33	10°♏41'09	0.64587 AU
	2468 Oct 12 01:00	30°♎♏		inferior conj	2469 Sep 30 14:29	8°♏12'33	-2°43'52
min. Earth dist.	2468 Oct 15 05:01	26°♏38'37	0.65928 AU	minimum elong	2469 Sep 30 18:52	8°♏00'39	2°42'18
inferior conj	2468 Oct 16 23:26	24°♏33'08	-1°44'56	morning rise	2469 Oct 07 01:40	2°♏44'30	
minimum elong	2468 Oct 17 02:16	24°♏24'45	1°43'48	asc. node	2469 Oct 09 00:58	2°♏11'15	
asc. node	2468 Oct 22 03:55	19°♏22'27		direct	2469 Oct 09 16:23	2°♏09'06	
morning rise	2468 Oct 23 00:55	18°♏50'34		morning max el	2469 Oct 16 04:25	5°♏36'16	17°59'34
direct	2468 Oct 25 22:16	18°♏04'03			2469 Nov 01 10:12	0°♎	
morning max el	2468 Nov 01 12:44	21°♏40'13	18°25'36	morning set	2469 Nov 02 15:59	2°♎05'28	
	2468 Nov 08 02:05	0°♎					
morning set	2468 Nov 21 05:28	20°♎42'31		superior conj	2469 Nov 16 05:18	24°♎26'36	-0°01'16
	2468 Nov 27 00:35	0°♏		minimum elong	2469 Nov 16 05:09	24°♎25'58	0°01'15
desc. node	2468 Nov 29 03:49	3°♏23'51		behind sun begin	2469 Nov 15 18:44	23°♎44'09	
				behind sun end	2469 Nov 16 15:33	25°♎07'44	
superior conj	2468 Dec 06 18:19	15°♏24'20	-0°49'40	desc. node	2469 Nov 16 00:51	24°♎08'42	
minimum elong	2468 Dec 06 12:01	14°♏59'32	0°48'52		2469 Nov 19 16:50	0°♏	
max. Earth dist.	2468 Dec 07 23:18	17°♏18'08	1.45177 AU	max. Earth dist.	2469 Nov 20 17:59	1°♏39'38	1.44745 AU
	2468 Dec 16 01:35	0°♏		evening rise	2469 Dec 02 12:26	20°♏00'37	
evening rise	2468 Dec 22 21:25	10°♏44'08			2469 Dec 09 00:48	0°♏	
greatest brilliancy	2469 Jan 01 23:44	26°♏35'46	-0.8m	greatest brilliancy	2469 Dec 16 19:46	11°♏42'54	-0.6m
	2469 Jan 04 04:50	0°♎		evening max el	2469 Dec 28 23:20	27°♏44'20	20°04'27
evening max el	2469 Jan 14 18:33	14°♎14'08	19°10'13		2469 Dec 31 10:30	0°♎	
asc. node	2469 Jan 18 03:13	17°♎02'57		asc. node	2470 Jan 05 00:15	2°♎12'25	
retrograde	2469 Jan 21 18:17	18°♎13'23		retrograde	2470 Jan 05 16:07	2°♎14'50	
evening set	2469 Jan 25 03:07	17°♎07'16		evening set	2470 Jan 09 08:56	0°♎54'58	
inferior conj	2469 Jan 30 16:52	11°♎17'43	3°20'52		2470 Jan 10 11:38	30°♎♏	
minimum elong	2469 Jan 30 14:43	11°♎24'34	3°20'30	inferior conj	2470 Jan 14 19:10	24°♏51'49	2°52'28
min. Earth dist.	2469 Feb 01 03:20	9°♎27'44	0.66031 AU	minimum elong	2470 Jan 14 16:35	25°♏00'28	2°51'48
morning rise	2469 Feb 05 02:03	5°♎05'29		min. Earth dist.	2470 Jan 15 15:48	23°♏42'29	0.67024 AU
direct	2469 Feb 11 11:37	2°♎16'30		morning rise	2470 Jan 20 00:02	18°♏38'19	
morning max el	2469 Feb 24 06:01	9°♎49'43	26°20'46	direct	2470 Jan 25 20:29	16°♏01'41	
desc. node	2469 Feb 25 03:02	10°♎43'39		morning max el	2470 Feb 06 14:51	23°♏03'10	25°02'45
	2469 Mar 12 04:27	0°♏		desc. node	2470 Feb 12 00:05	29°♏04'01	
	2469 Mar 30 09:59	0°♎			2470 Feb 12 18:26	0°♎	
morning set	2469 Apr 01 08:40	3°♎36'14			2470 Mar 05 12:44	0°♏	
max. Earth dist.	2469 Apr 05 10:18	11°♎24'19	1.35005 AU	morning set	2470 Mar 14 19:09	15°♏47'27	
				max. Earth dist.	2470 Mar 18 10:52	22°♏26'47	1.36808 AU
superior conj	2469 Apr 10 06:09	21°♎05'36	-0°58'02		2470 Mar 22 10:40	0°♎	
minimum elong	2469 Apr 10 09:07	21°♎20'48	0°57'28				
	2469 Apr 14 13:22	0°♏		superior conj	2470 Mar 24 18:23	4°♎31'18	-1°24'45
asc. node	2469 Apr 16 02:31	3°♏13'36		minimum elong	2470 Mar 24 22:30	4°♎51'32	1°24'08
evening rise	2469 Apr 17 23:07	7°♏04'45		evening rise	2470 Apr 02 02:34	21°♎15'07	
	2469 Apr 30 13:11	0°♎		asc. node	2470 Apr 02 23:35	23°♎00'25	
evening max el	2469 May 06 16:56	7°♎30'11	20°41'12		2470 Apr 06 13:19	0°♏	
retrograde	2469 May 17 23:33	12°♎59'35		evening max el	2470 Apr 19 06:18	19°♏04'53	19°32'50
evening set	2469 May 20 01:40	12°♎49'01		retrograde	2470 Apr 28 19:16	23°♏41'45	
desc. node	2469 May 24 02:13	11°♎35'27		evening set	2470 Apr 30 19:54	23°♏30'11	
inferior conj	2469 May 29 07:58	8°♎51'18	-1°31'41	inferior conj	2470 May 09 11:03	19°♏25'42	0°26'10
minimum elong	2469 May 29 03:38	8°♎57'31	1°30'07	minimum elong	2470 May 09 12:11	19°♏23'54	0°25'45
min. Earth dist.	2469 May 30 09:27	8°♎14'46	0.54964 AU	desc. node	2470 May 10 23:15	18°♏27'45	
morning rise	2469 Jun 07 05:00	4°♎43'44		min. Earth dist.	2470 May 11 23:50	17°♏49'02	0.55829 AU
direct	2469 Jun 10 19:28	4°♎15'47		morning rise	2470 May 18 01:43	14°♏46'36	
morning max el	2469 Jun 24 00:48	10°♎38'03	23°06'16	direct	2470 May 22 14:06	14°♏00'39	
	2469 Jul 08 06:41	0°♏		morning max el	2470 Jun 05 15:24	21°♏05'35	24°48'05
asc. node	2469 Jul 13 01:45	8°♏58'32			2470 Jun 13 08:19	0°♎	
morning set	2469 Jul 16 23:54	16°♏59'56		asc. node	2470 Jun 29 22:50	28°♎42'39	
	2469 Jul 23 01:46	0°♏			2470 Jun 30 13:43	0°♏	

morning set	2470 Jul 01 11:46	1°☿55'46			2471 Jun 22 00:58	0°☿	
superior conj	2470 Jul 08 11:09	17°☿01'42	1°19'02	superior conj	2471 Jun 22 22:34	1°☿58'52	1°00'31
minimum elong	2470 Jul 08 08:46	16°☿48'41	1°18'42	minimum elong	2471 Jun 22 20:21	1°☿46'39	1°00'07
max. Earth dist.	2470 Jul 09 22:54	20°☿15'53	1.32833 AU	max. Earth dist.	2471 Jun 23 09:17	2°☿57'47	1.32296 AU
	2470 Jul 14 12:52	0°♊		evening rise	2471 Jun 29 21:25	16°☿59'48	
evening rise	2470 Jul 15 16:21	2°♊21'32			2471 Jul 06 10:14	0°♊	
	2470 Jul 30 21:45	0°♋		desc. node	2471 Jul 24 19:34	28°♊36'10	
desc. node	2470 Aug 06 22:33	10°♋20'30			2471 Jul 25 23:48	0°♋	
evening max el	2470 Aug 17 11:07	22°♋36'00	27°24'55	evening max el	2471 Jul 30 16:31	4°♋58'16	26°59'14
retrograde	2470 Aug 31 05:01	29°♋52'56		retrograde	2471 Aug 13 14:21	12°♋11'22	
evening set	2470 Sep 07 09:54	27°♋20'05		evening set	2471 Aug 20 14:20	10°♋01'39	
min. Earth dist.	2470 Sep 11 00:26	24°♋19'40	0.62906 AU	min. Earth dist.	2471 Aug 24 06:47	7°♋21'18	0.60957 AU
inferior conj	2470 Sep 13 19:32	21°♋36'49	-3°39'41	inferior conj	2471 Aug 27 11:18	4°♋37'56	-4°26'58
minimum elong	2470 Sep 14 00:56	21°♋23'40	3°38'08	minimum elong	2471 Aug 27 16:23	4°♋27'01	4°26'00
morning rise	2470 Sep 20 17:24	16°♋26'25			2471 Sep 03 06:46	30°♋♊	
direct	2470 Sep 23 04:08	15°♋58'39		morning rise	2471 Sep 03 20:13	29°♊48'19	
asc. node	2470 Sep 25 22:03	16°♋34'29		direct	2471 Sep 06 05:54	29°♊25'15	
morning max el	2470 Sep 29 20:37	19°♋24'58	17°51'13		2471 Sep 09 03:08	0°♋	
	2470 Oct 07 15:15	0°♌		asc. node	2471 Sep 12 19:06	2°♋23'40	
morning set	2470 Oct 16 02:14	14°♌36'45		morning max el	2471 Sep 13 10:12	2°♋58'56	18°01'41
	2470 Oct 24 22:04	0°♍		morning set	2471 Sep 29 05:58	27°♋58'38	
					2471 Sep 30 08:10	0°♌	
superior conj	2470 Oct 27 16:33	4°♍41'11	0°41'45	superior conj	2471 Oct 09 06:38	16°♌14'57	1°13'43
minimum elong	2470 Oct 27 20:21	4°♍57'09	0°41'15	minimum elong	2471 Oct 09 11:00	16°♌34'14	1°13'12
desc. node	2470 Nov 02 21:51	14°♍55'57		max. Earth dist.	2471 Oct 16 21:16	29°♌18'33	1.41999 AU
max. Earth dist.	2470 Nov 03 09:50	15°♍44'18	1.43641 AU		2471 Oct 17 07:14	0°♍	
evening rise	2470 Nov 11 21:04	29°♍06'35		desc. node	2471 Oct 20 18:53	5°♍42'46	
	2470 Nov 12 10:53	0°♎		evening rise	2471 Oct 22 16:21	8°♍45'28	
	2470 Dec 02 19:14	0°♏			2471 Nov 05 14:39	0°♎	
evening max el	2470 Dec 11 22:38	11°♏15'18	21°11'45	evening max el	2471 Nov 24 16:40	24°♎48'21	22°27'57
retrograde	2470 Dec 20 13:47	16°♏22'36			2471 Dec 01 15:34	0°♏	
asc. node	2470 Dec 22 21:19	15°♏52'59		retrograde	2471 Dec 04 09:34	0°♏34'22	
evening set	2470 Dec 24 16:25	14°♏47'32			2471 Dec 06 23:31	30°♎♏	
inferior conj	2470 Dec 30 01:01	8°♏33'53	2°15'17	evening set	2471 Dec 08 23:55	28°♏42'45	
minimum elong	2470 Dec 29 22:33	8°♏42'25	2°14'29	asc. node	2471 Dec 09 18:21	28°♏01'50	
min. Earth dist.	2470 Dec 30 09:18	8°♏05'18	0.67630 AU	inferior conj	2471 Dec 14 08:29	22°♏22'01	1°31'05
morning rise	2471 Jan 04 04:29	2°♏21'01		minimum elong	2471 Dec 14 06:33	22°♏28'40	1°30'21
direct	2471 Jan 09 10:14	0°♏03'48		min. Earth dist.	2471 Dec 14 05:30	22°♏32'19	0.67873 AU
morning max el	2471 Jan 19 23:24	6°♏20'50	23°35'06	morning rise	2471 Dec 19 13:03	16°♏11'40	
desc. node	2471 Jan 29 21:06	18°♏10'45		direct	2471 Dec 24 03:54	14°♏17'08	
	2471 Feb 07 07:20	0°♐		morning max el	2472 Jan 02 11:01	19°♏45'14	22°07'32
morning set	2471 Feb 24 06:12	26°♐46'46			2472 Jan 11 01:15	0°♏	
	2471 Feb 26 03:23	0°♑		desc. node	2472 Jan 16 18:08	7°♏51'02	
max. Earth dist.	2471 Feb 28 05:38	3°♑38'44	1.38909 AU		2472 Jan 31 12:37	0°♐	
				morning set	2472 Feb 04 12:37	6°♐22'28	
superior conj	2471 Mar 07 17:09	17°♑13'55	-1°47'24	max. Earth dist.	2472 Feb 10 03:09	15°♐36'05	1.41056 AU
minimum elong	2471 Mar 07 21:28	17°♑34'06	1°47'00				
	2471 Mar 14 09:10	0°♒		superior conj	2472 Feb 17 21:43	29°♐01'50	-2°02'20
evening rise	2471 Mar 16 22:18	4°♒57'19		minimum elong	2472 Feb 18 00:18	29°♐13'21	2°02'15
asc. node	2471 Mar 20 20:38	12°♒29'44			2472 Feb 18 10:47	0°♑	
	2471 Apr 01 00:12	0°♓		evening rise	2472 Feb 28 07:01	18°♑03'32	
evening max el	2471 Apr 02 06:11	1°♓17'54	18°44'20		2472 Mar 05 19:41	0°♒	
retrograde	2471 Apr 10 07:42	5°♓13'54		asc. node	2472 Mar 06 17:40	1°♒35'31	
evening set	2471 Apr 12 13:45	4°♓56'38		evening max el	2472 Mar 15 13:28	14°♒01'04	18°15'56
inferior conj	2471 Apr 20 09:13	0°♓34'52	2°01'05	retrograde	2472 Mar 22 15:11	17°♒33'03	
minimum elong	2471 Apr 20 13:01	0°♓27'48	1°59'58	evening set	2472 Mar 25 03:23	17°♒07'18	
	2471 Apr 21 03:55	30°♒♒		inferior conj	2472 Apr 01 04:41	12°♒24'37	3°02'40
min. Earth dist.	2471 Apr 23 16:49	28°♒08'14	0.57460 AU	minimum elong	2472 Apr 01 08:05	12°♒17'14	3°02'00
desc. node	2471 Apr 27 20:18	25°♒36'57		min. Earth dist.	2472 Apr 04 14:32	9°♒28'23	0.59519 AU
morning rise	2471 Apr 28 09:09	25°♒21'59		morning rise	2472 Apr 08 10:20	6°♒45'12	
direct	2471 May 03 22:41	24°♒05'54		desc. node	2472 Apr 13 17:20	4°♒56'21	
	2471 May 16 12:35	0°♓		direct	2472 Apr 14 19:55	4°♒53'01	
morning max el	2471 May 18 07:01	1°♓37'58	26°17'58	morning max el	2472 Apr 29 04:05	12°♒40'29	27°21'23
	2471 Jun 07 09:50	0°♔			2472 May 12 20:25	0°♓	
morning set	2471 Jun 15 22:46	16°♔48'12			2472 May 29 13:36	0°♔	
asc. node	2471 Jun 16 19:54	18°♔40'06					

morning set	2472 May 30 07:13	1° Π 31'21		morning set	2473 May 06 04:13	0° \mathcal{B}	
asc. node	2472 Jun 02 16:55	8° Π 45'37		max. Earth dist.	2473 May 14 11:12	15° \mathcal{B} 58'54	1.32389 AU
superior conj	2472 Jun 06 10:16	16° Π 54'04	0°38'26	asc. node	2473 May 20 07:44	28° \mathcal{B} 21'11	
minimum elong	2472 Jun 06 08:39	16° Π 45'11	0°38'05		2473 May 20 13:57	28° \mathcal{B} 54'53	
max. Earth dist.	2472 Jun 05 21:33	15° Π 44'04	1.32148 AU		2473 May 21 01:56	0° Π	
	2472 Jun 12 10:18	0° \mathcal{E}		superior conj	2473 May 21 20:36	1° Π 41'46	0°13'27
evening rise	2472 Jun 13 06:41	1° \mathcal{E} 48'27		minimum elong	2473 May 21 19:59	1° Π 38'22	0°13'19
	2472 Jun 28 12:36	0° Ω		behind sun begin	2473 May 21 17:11	1° Π 23'03	
desc. node	2472 Jul 10 16:37	15° Ω 38'37		behind sun end	2473 May 21 22:47	1° Π 53'41	
evening max el	2472 Jul 11 14:54	16° Ω 33'03	26°00'56	evening rise	2473 May 28 18:08	16° Π 40'29	
retrograde	2472 Jul 25 14:40	23° Ω 42'35			2473 Jun 04 08:28	0° \mathcal{E}	
evening set	2472 Jul 31 21:34	22° Ω 07'17		evening max el	2473 Jun 23 06:26	27° \mathcal{E} 23'56	24°37'08
min. Earth dist.	2472 Aug 05 03:23	19° Ω 30'43	0.58894 AU		2473 Jun 26 05:55	0° Ω	
inferior conj	2472 Aug 08 10:07	17° Ω 04'52	-4°56'51	desc. node	2473 Jun 27 13:36	0° Ω 58'42	
minimum elong	2472 Aug 08 12:33	17° Ω 00'20	4°56'41	retrograde	2473 Jul 07 04:25	4° Ω 26'31	
morning rise	2472 Aug 16 05:43	12° Ω 38'18		evening set	2473 Jul 12 04:58	3° Ω 29'37	
direct	2472 Aug 18 17:09	12° Ω 17'51		min. Earth dist.	2473 Jul 17 17:31	0° Ω 38'20	0.56976 AU
morning max el	2472 Aug 26 17:59	16° Ω 08'33	18°32'16		2473 Jul 18 17:36	30° \mathcal{R} \mathcal{E}	
asc. node	2472 Aug 29 16:08	19° Ω 23'11		inferior conj	2473 Jul 20 13:08	28° \mathcal{E} 49'16	-4°56'17
	2472 Sep 05 13:05	0° \mathcal{M}		minimum elong	2473 Jul 20 10:26	28° \mathcal{E} 53'39	4°56'06
morning set	2472 Sep 11 21:57	11° \mathcal{M} 55'30		morning rise	2473 Jul 28 18:35	24° \mathcal{E} 44'09	
				direct	2473 Jul 31 09:45	24° \mathcal{E} 25'00	
superior conj	2472 Sep 20 19:08	28° \mathcal{M} 54'41	1°33'55	morning max el	2473 Aug 09 16:56	28° \mathcal{E} 45'00	19°24'01
minimum elong	2472 Sep 20 22:09	29° \mathcal{M} 08'44	1°33'40		2473 Aug 10 23:04	0° Ω	
	2472 Sep 21 09:11	0° $\underline{\Omega}$		asc. node	2473 Aug 16 13:10	7° Ω 18'29	
max. Earth dist.	2472 Sep 28 03:42	12° $\underline{\Omega}$ 10'40	1.40017 AU	morning set	2473 Aug 26 22:28	26° Ω 17'09	
evening rise	2472 Oct 02 09:11	19° $\underline{\Omega}$ 23'39			2473 Aug 28 18:56	0° \mathcal{M}	
desc. node	2472 Oct 06 15:55	26° $\underline{\Omega}$ 24'58					
	2472 Oct 08 21:55	0° \mathcal{M}		superior conj	2473 Sep 04 00:27	12° \mathcal{M} 24'32	1°43'44
	2472 Oct 29 21:48	0° \mathcal{J}		minimum elong	2473 Sep 04 01:37	12° \mathcal{M} 30'14	1°43'42
evening max el	2472 Nov 06 06:43	8° \mathcal{J} 23'59	23°47'51	max. Earth dist.	2473 Sep 10 07:27	24° \mathcal{M} 21'27	1.37957 AU
retrograde	2472 Nov 17 02:13	14° \mathcal{J} 46'19			2473 Sep 13 10:24	0° $\underline{\Omega}$	
evening set	2472 Nov 22 05:49	12° \mathcal{J} 37'46		evening rise	2473 Sep 14 01:46	1° $\underline{\Omega}$ 07'56	
asc. node	2472 Nov 25 15:21	8° \mathcal{J} 55'25		desc. node	2473 Sep 23 12:55	16° $\underline{\Omega}$ 58'19	
min. Earth dist.	2472 Nov 27 02:01	7° \mathcal{J} 00'14	0.67766 AU		2473 Oct 02 03:24	0° \mathcal{M}	
inferior conj	2472 Nov 27 15:41	6° \mathcal{J} 13'43	0°41'10	evening max el	2473 Oct 19 18:48	22° \mathcal{M} 02'41	25°04'59
minimum elong	2472 Nov 27 14:43	6° \mathcal{J} 17'00	0°40'45	retrograde	2473 Oct 31 14:49	28° \mathcal{M} 54'08	
morning rise	2472 Dec 02 23:37	0° \mathcal{J} 07'55		evening set	2473 Nov 06 08:29	26° \mathcal{M} 29'50	
	2472 Dec 03 03:51	30° \mathcal{R} \mathcal{M}		min. Earth dist.	2473 Nov 10 20:35	21° \mathcal{M} 26'31	0.67317 AU
direct	2472 Dec 07 00:27	28° \mathcal{M} 36'06		inferior conj	2473 Nov 11 20:56	20° \mathcal{M} 06'45	-0°13'18
	2472 Dec 11 04:54	0° \mathcal{J}		minimum elong	2473 Nov 11 21:16	20° \mathcal{M} 05'40	0°13'10
morning max el	2472 Dec 15 05:09	3° \mathcal{J} 20'10	20°47'41	transit middle	2473 Nov 11 21:16	20° \mathcal{M} 05'40	0°13'10
desc. node	2473 Jan 02 15:10	27° \mathcal{J} 55'25		transit begin	2473 Nov 11 19:39	20° \mathcal{M} 10'58	
	2473 Jan 04 00:34	0° \mathcal{Z}		transit end	2473 Nov 11 22:53	20° \mathcal{M} 00'21	
morning set	2473 Jan 13 17:02	14° \mathcal{Z} 47'58		asc. node	2473 Nov 12 12:23	19° \mathcal{M} 16'22	
max. Earth dist.	2473 Jan 22 07:59	28° \mathcal{Z} 30'04	1.42949 AU	morning rise	2473 Nov 17 10:15	14° \mathcal{M} 07'42	
	2473 Jan 23 06:06	0° \approx		direct	2473 Nov 20 22:40	12° \mathcal{M} 56'19	
				morning max el	2473 Nov 28 07:09	17° \mathcal{M} 06'06	19°40'22
superior conj	2473 Jan 29 02:53	9° \approx 43'13	-2°04'44		2473 Dec 08 08:43	0° \mathcal{J}	
minimum elong	2473 Jan 29 01:06	9° \approx 35'43	2°04'42	greatest brilliancy	2473 Dec 11 12:32	4° \mathcal{J} 38'32	-0.7m
	2473 Feb 09 19:01	0° \mathcal{H}		desc. node	2473 Dec 20 12:12	18° \mathcal{J} 17'01	
evening rise	2473 Feb 10 00:45	0° \mathcal{H} 25'28		morning set	2473 Dec 23 13:30	22° \mathcal{J} 59'29	
asc. node	2473 Feb 21 14:40	20° \mathcal{H} 10'17			2473 Dec 28 01:55	0° \mathcal{Z}	
evening max el	2473 Feb 27 00:52	27° \mathcal{H} 05'41	18°07'14	max. Earth dist.	2474 Jan 04 19:47	12° \mathcal{Z} 10'07	1.44346 AU
	2473 Mar 03 03:37	0° \mathcal{Y}					
retrograde	2473 Mar 05 14:22	0° \mathcal{Y} 29'18		superior conj	2474 Jan 09 05:45	19° \mathcal{Z} 13'34	-1°49'41
evening set	2473 Mar 08 08:01	29° \mathcal{H} 53'36		minimum elong	2474 Jan 08 22:29	18° \mathcal{Z} 44'19	1°49'10
	2473 Mar 08 01:44	30° \mathcal{R} \mathcal{H}			2474 Jan 15 20:18	0° \approx	
inferior conj	2473 Mar 14 18:52	24° \mathcal{H} 50'16	3°34'00	evening rise	2474 Jan 22 23:08	11° \approx 54'32	
minimum elong	2473 Mar 14 20:28	24° \mathcal{H} 46'16	3°33'51		2474 Feb 02 19:56	0° \mathcal{H}	
min. Earth dist.	2473 Mar 17 19:51	21° \mathcal{H} 49'06	0.61662 AU	asc. node	2474 Feb 08 11:42	8° \mathcal{H} 04'10	
morning rise	2473 Mar 21 07:23	18° \mathcal{H} 53'54		evening max el	2474 Feb 10 13:26	10° \mathcal{H} 23'40	18°17'35
direct	2473 Mar 28 03:50	16° \mathcal{H} 29'16		retrograde	2474 Feb 17 00:31	13° \mathcal{H} 52'15	
desc. node	2473 Mar 31 14:22	17° \mathcal{H} 02'36		evening set	2474 Feb 19 23:28	13° \mathcal{H} 05'35	
morning max el	2473 Apr 11 07:37	24° \mathcal{H} 25'01	27°49'18	inferior conj	2474 Feb 25 23:42	7° \mathcal{H} 43'00	3°41'52
	2473 Apr 16 09:16	0° \mathcal{Y}		minimum elong	2474 Feb 25 23:26	7° \mathcal{H} 43'43	3°41'51

min. Earth dist.	2474 Feb 28 10:30	4° H 58'47	0.63636 AU	evening set	2475 Feb 03 22:32	26° \approx 36'13	
morning rise	2474 Mar 03 22:33	1° H 37'14		inferior conj	2475 Feb 09 15:21	20° \approx 56'06	3°32'23
	2474 Mar 06 09:18	30° \approx		minimum elong	2475 Feb 09 13:43	21° \approx 01'06	3°32'11
direct	2474 Mar 10 20:28	28° \approx 51'39		min. Earth dist.	2475 Feb 11 10:36	18° \approx 43'48	0.65277 AU
	2474 Mar 15 15:27	0° H		morning rise	2475 Feb 15 04:29	14° \approx 45'32	
desc. node	2474 Mar 18 11:24	1° H 35'23		direct	2475 Feb 21 20:17	11° \approx 53'43	
morning max el	2474 Mar 24 15:36	6° H 47'44	27°39'48	desc. node	2475 Mar 05 08:27	18° \approx 00'04	
	2474 Apr 11 09:40	0° Y		morning max el	2475 Mar 07 01:17	19° \approx 38'51	26°57'08
morning set	2474 Apr 28 08:18	0° B 02'02			2475 Mar 15 21:42	0° H	
	2474 Apr 28 07:53	0° B			2475 Apr 04 10:32	0° Y	
max. Earth dist.	2474 May 03 11:38	10° B 34'13	1.33045 AU	morning set	2475 Apr 11 19:24	13° Y 31'31	
				max. Earth dist.	2475 Apr 16 05:40	22° Y 14'50	1.34159 AU
superior conj	2474 May 06 03:45	16° B 15'02	-0°13'40				
minimum elong	2474 May 06 04:25	16° B 18'39	0°13'31	superior conj	2475 Apr 20 05:39	0° B 28'02	-0°41'51
behind sun begin	2474 May 06 01:35	16° B 03'25		minimum elong	2475 Apr 20 07:48	0° B 39'12	0°41'25
behind sun end	2474 May 06 07:15	16° B 33'53			2475 Apr 20 00:17	0° B	
asc. node	2474 May 07 10:59	19° B 03'00		asc. node	2475 Apr 24 08:02	9° B 06'10	
	2474 May 12 13:08	0° II		evening rise	2475 Apr 27 16:00	16° B 06'57	
evening rise	2474 May 13 05:50	1° II 28'31			2475 May 04 16:19	0° II	
	2474 May 29 03:38	0° B		evening max el	2475 May 17 15:36	18° II 30'11	21°28'40
evening max el	2474 Jun 04 20:05	7° B 52'14	23°01'25	retrograde	2475 May 29 20:26	24° II 28'56	
desc. node	2474 Jun 14 10:37	14° B 00'18		evening set	2475 Jun 01 06:02	24° II 15'50	
retrograde	2474 Jun 18 05:50	14° B 33'15		desc. node	2475 Jun 01 07:40	24° II 15'05	
evening set	2474 Jun 21 18:06	14° B 06'13		inferior conj	2475 Jun 10 15:44	20° II 15'41	-2°38'57
min. Earth dist.	2474 Jun 29 05:15	10° B 46'05	0.55536 AU	minimum elong	2475 Jun 10 08:41	20° II 25'33	2°36'38
inferior conj	2474 Jun 30 20:43	9° B 48'48	-4°11'19	min. Earth dist.	2475 Jun 10 17:00	20° II 13'54	0.54899 AU
minimum elong	2474 Jun 30 13:16	9° B 59'39	4°09'43	morning rise	2475 Jun 19 12:01	16° II 19'11	
morning rise	2474 Jul 09 10:53	5° B 56'11		direct	2475 Jun 22 18:08	15° II 56'06	
direct	2474 Jul 12 07:26	5° B 36'50		morning max el	2475 Jul 05 05:14	21° II 49'44	22°08'20
morning max el	2474 Jul 23 04:45	10° B 39'37	20°37'00		2475 Jul 12 05:25	0° B	
asc. node	2474 Aug 03 10:13	25° B 56'29		asc. node	2475 Jul 21 07:17	15° B 06'35	
	2474 Aug 05 15:55	0° Q		morning set	2475 Jul 26 14:36	25° B 46'03	
morning set	2474 Aug 11 04:45	10° Q 56'08			2475 Jul 28 14:52	0° Q	
superior conj	2474 Aug 18 17:48	26° Q 30'33	1°44'58	superior conj	2475 Aug 02 19:29	11° Q 01'23	1°39'15
minimum elong	2474 Aug 18 17:19	26° Q 28'07	1°44'59	minimum elong	2475 Aug 02 17:51	10° Q 52'44	1°39'09
	2474 Aug 20 11:11	0° P		max. Earth dist.	2475 Aug 06 05:46	18° Q 09'20	1.34495 AU
max. Earth dist.	2474 Aug 23 14:25	6° P 12'16	1.36062 AU	evening rise	2475 Aug 10 20:23	27° Q 21'16	
evening rise	2474 Aug 27 15:02	13° P 51'21			2475 Aug 12 05:26	0° P	
	2474 Sep 05 20:27	0° Q		desc. node	2475 Aug 28 06:58	27° P 17'05	
desc. node	2474 Sep 10 09:56	7° Q 17'59			2475 Aug 30 03:07	0° Q	
	2474 Sep 26 23:01	0° M		evening max el	2475 Sep 14 19:24	19° Q 17'11	27°00'51
evening max el	2474 Oct 02 06:55	5° M 42'58	26°11'53	retrograde	2475 Sep 28 00:49	26° Q 34'04	
retrograde	2474 Oct 14 22:38	12° M 52'29		evening set	2475 Oct 04 20:22	23° Q 51'16	
evening set	2474 Oct 21 06:05	10° M 15'56		min. Earth dist.	2475 Oct 08 18:25	19° Q 59'51	0.65398 AU
min. Earth dist.	2474 Oct 25 10:52	5° M 48'13	0.66529 AU	inferior conj	2475 Oct 10 17:58	17° Q 43'59	-2°10'06
inferior conj	2474 Oct 26 22:24	3° M 58'23	-1°10'57	minimum elong	2475 Oct 10 21:30	17° Q 33'55	2°08'43
minimum elong	2474 Oct 27 00:17	3° M 52'33	1°10'10	morning rise	2475 Oct 16 23:24	12° Q 06'52	
asc. node	2474 Oct 30 09:26	0° M 01'57		asc. node	2475 Oct 17 06:30	11° Q 58'31	
	2474 Oct 30 10:14	30° R 1		direct	2475 Oct 19 17:37	11° Q 25'28	
morning rise	2474 Nov 01 18:57	28° Q 08'46		morning max el	2475 Oct 26 06:13	14° Q 56'54	18°12'20
direct	2474 Nov 04 21:06	27° Q 14'16			2475 Nov 06 01:57	0° M	
	2474 Nov 10 14:51	0° M		morning set	2475 Nov 13 21:16	12° M 43'57	
morning max el	2474 Nov 11 16:13	1° M 00'10	18°48'10	desc. node	2475 Nov 24 06:14	29° M 32'34	
	2474 Dec 01 18:26	0° X			2475 Nov 24 13:06	0° X	
morning set	2474 Dec 03 02:57	2° X 08'13		superior conj	2475 Nov 28 14:52	6° X 28'21	-0°29'06
desc. node	2474 Dec 07 09:13	8° X 50'55		minimum elong	2475 Nov 28 11:08	6° X 13'36	0°28'35
max. Earth dist.	2474 Dec 18 12:42	26° X 21'05	1.45083 AU	max. Earth dist.	2475 Dec 01 07:58	10° X 45'03	1.45087 AU
					2475 Dec 13 15:38	0° B	
superior conj	2474 Dec 19 11:56	27° X 52'25	-1°15'42	evening rise	2475 Dec 14 23:44	2° B 04'54	
minimum elong	2474 Dec 19 03:19	27° X 18'30	1°14'45	greatest brilliancy	2475 Dec 27 03:57	20° B 53'15	-0.7m
	2474 Dec 20 20:23	0° B			2476 Jan 02 09:43	0° \approx	
evening rise	2475 Jan 03 22:45	22° B 26'25		evening max el	2476 Jan 08 08:21	7° \approx 19'26	19°31'33
	2475 Jan 08 15:10	0° \approx		asc. node	2476 Jan 13 05:48	11° \approx 00'17	
evening max el	2475 Jan 25 00:41	23° \approx 49'59	18°46'08	retrograde	2476 Jan 15 14:25	11° \approx 30'36	
asc. node	2475 Jan 26 08:44	25° \approx 05'47		evening set	2476 Jan 19 02:31	10° \approx 18'42	
retrograde	2475 Jan 31 17:36	27° \approx 34'53					

inferior conj	2476 Jan 24 14:32	4° \approx 23'12	3°09'57	retrograde	2476 Dec 29 12:25	25° \approx 35'16	
minimum elong	2476 Jan 24 12:08	4° \approx 31'02	3°09'27	asc. node	2476 Dec 30 02:51	25° \approx 33'15	
min. Earth dist.	2476 Jan 25 18:56	2° \approx 50'23	0.66511 AU	evening set	2477 Jan 02 09:17	24° \approx 08'52	
	2476 Jan 28 02:32	30° \approx 30'		inferior conj	2477 Jan 07 18:36	18° \approx 00'43	2°37'35
morning rise	2476 Jan 29 21:31	28° \approx 10'27		minimum elong	2477 Jan 07 16:01	18° \approx 09'33	2°36'51
direct	2476 Feb 05 01:58	25° \approx 25'32		min. Earth dist.	2477 Jan 08 09:44	17° \approx 09'12	0.67335 AU
	2476 Feb 14 11:34	0° \approx		morning rise	2477 Jan 12 22:34	11° \approx 47'28	
morning max el	2476 Feb 17 10:34	2° \approx 46'14	25°49'19	direct	2477 Jan 18 12:50	9° \approx 18'44	
desc. node	2476 Feb 20 05:28	5° \approx 44'46		morning max el	2477 Jan 29 19:06	16° \approx 01'49	24°26'00
	2476 Mar 09 02:45	0° \approx		desc. node	2477 Feb 06 02:30	24° \approx 26'28	
morning set	2476 Mar 24 16:22	26° \approx 15'07			2477 Feb 10 08:01	0° \approx	
	2476 Mar 26 16:45	0° \approx			2477 Mar 02 01:55	0° \approx	
max. Earth dist.	2476 Mar 28 12:13	3° \approx 26'14	1.35728 AU	morning set	2477 Mar 06 17:38	7° \approx 57'21	
				max. Earth dist.	2477 Mar 10 09:51	14° \approx 30'00	1.37681 AU
superior conj	2476 Apr 02 23:47	14° \approx 13'28	-1°09'40	superior conj	2477 Mar 17 06:48	27° \approx 21'52	-1°35'02
minimum elong	2476 Apr 03 03:19	14° \approx 31'13	1°09'04	minimum elong	2477 Mar 17 11:09	27° \approx 42'55	1°34'30
asc. node	2476 Apr 10 05:07	29° \approx 00'21			2477 Mar 18 15:25	0° \approx	
evening rise	2476 Apr 10 22:34	0° \approx 29'38			2477 Mar 25 23:07	14° \approx 29'02	
	2476 Apr 10 16:46	0° \approx		evening rise	2477 Mar 28 02:10	18° \approx 40'21	
evening max el	2476 Apr 28 22:06	29° \approx 41'31	20°09'46	asc. node	2477 Apr 03 05:15	0° \approx	
	2476 Apr 29 05:50	0° \approx			2477 Apr 11 16:09	11° \approx 32'32	19°09'40
retrograde	2476 May 09 10:30	4° \approx 47'27		evening max el	2477 Apr 20 12:52	15° \approx 50'34	
evening set	2476 May 11 10:50	4° \approx 37'03		retrograde	2477 Apr 22 15:25	15° \approx 37'01	
desc. node	2476 May 18 04:42	1° \approx 58'06		evening set	2477 Apr 30 22:14	11° \approx 25'32	1°10'19
inferior conj	2476 May 20 11:46	0° \approx 38'11	-0°40'20	inferior conj	2477 May 01 00:56	11° \approx 20'56	1°09'24
minimum elong	2476 May 20 09:53	0° \approx 40'58	0°39'39	minimum elong	2477 May 03 21:00	9° \approx 25'58	0.56442 AU
	2476 May 21 13:25	30° \approx 30'		min. Earth dist.	2477 May 05 01:44	8° \approx 40'21	
min. Earth dist.	2476 May 22 05:54	29° \approx 35'41	0.55223 AU	desc. node	2477 May 09 07:24	6° \approx 31'41	
morning rise	2476 May 29 07:20	26° \approx 18'55		morning rise	2477 May 14 06:20	5° \approx 34'33	
direct	2476 Jun 02 06:31	25° \approx 44'43		direct	2477 May 28 12:09	12° \approx 52'24	25°28'55
	2476 Jun 13 01:26	0° \approx		morning max el	2477 Jun 10 20:23	0° \approx	
morning max el	2476 Jun 15 21:42	2° \approx 26'09	23°50'08		2477 Jun 24 01:24	24° \approx 30'57	
	2476 Jul 04 19:32	0° \approx		asc. node	2477 Jun 24 13:56	25° \approx 36'57	
asc. node	2476 Jul 07 04:21	4° \approx 40'35		morning set	2477 Jun 26 15:12	0° \approx	
morning set	2476 Jul 10 02:15	10° \approx 41'52					
superior conj	2476 Jul 17 02:42	25° \approx 48'34	1°27'50	superior conj	2477 Jul 01 13:07	10° \approx 43'41	1°11'41
minimum elong	2476 Jul 17 00:27	25° \approx 36'21	1°27'34	minimum elong	2477 Jul 01 10:45	10° \approx 30'41	1°11'17
	2476 Jul 19 01:32	0° \approx		max. Earth dist.	2477 Jul 02 14:06	13° \approx 00'20	1.32552 AU
max. Earth dist.	2476 Jul 19 06:25	0° \approx 25'59	1.33322 AU	evening rise	2477 Jul 08 15:07	25° \approx 54'03	
evening rise	2476 Jul 24 13:36	11° \approx 26'01			2477 Jul 10 15:23	0° \approx	
	2476 Aug 03 11:56	0° \approx			2477 Jul 27 23:45	0° \approx	
desc. node	2476 Aug 14 04:01	16° \approx 46'53		desc. node	2477 Aug 01 01:03	5° \approx 34'08	
	2476 Aug 24 17:52	0° \approx		evening max el	2477 Aug 09 15:02	15° \approx 17'58	27°18'01
evening max el	2476 Aug 27 06:55	2° \approx 33'41	27°24'44	retrograde	2477 Aug 23 10:34	22° \approx 33'22	
retrograde	2476 Sep 09 20:59	9° \approx 51'09		evening set	2477 Aug 30 14:54	20° \approx 08'22	
evening set	2476 Sep 17 00:32	7° \approx 11'12		min. Earth dist.	2477 Sep 03 05:06	17° \approx 18'33	0.62107 AU
min. Earth dist.	2476 Sep 20 16:59	3° \approx 54'07	0.63917 AU	inferior conj	2477 Sep 06 04:56	14° \approx 33'20	-4°01'12
inferior conj	2476 Sep 23 05:10	1° \approx 18'23	-3°08'10	minimum elong	2477 Sep 06 10:25	14° \approx 20'39	3°59'50
minimum elong	2476 Sep 23 10:05	1° \approx 05'37	3°06'32	morning rise	2477 Sep 13 07:32	9° \approx 31'43	
	2476 Sep 24 11:51	30° \approx 30'		direct	2477 Sep 15 17:31	9° \approx 06'14	
morning rise	2476 Sep 29 20:47	25° \approx 57'19		asc. node	2477 Sep 20 00:35	10° \approx 29'16	
direct	2476 Oct 02 09:37	25° \approx 25'24		morning max el	2477 Sep 22 13:57	12° \approx 34'16	17°53'22
asc. node	2476 Oct 03 03:33	25° \approx 28'13			2477 Oct 04 07:56	0° \approx	
morning max el	2476 Oct 08 22:28	28° \approx 50'53	17°53'47	morning set	2477 Oct 08 13:06	7° \approx 33'36	
	2476 Oct 10 00:34	0° \approx					
morning set	2476 Oct 25 18:44	24° \approx 39'04		superior conj	2477 Oct 19 10:08	26° \approx 48'10	0°56'47
	2476 Oct 28 21:39	0° \approx		minimum elong	2477 Oct 19 14:31	27° \approx 06'58	0°56'12
					2477 Oct 21 07:11	0° \approx	
superior conj	2476 Nov 07 11:09	15° \approx 58'44	0°18'08	max. Earth dist.	2477 Oct 26 16:37	8° \approx 57'40	1.42998 AU
minimum elong	2476 Nov 07 13:07	16° \approx 06'49	0°17'52	desc. node	2477 Oct 28 00:19	11° \approx 06'31	
desc. node	2476 Nov 10 03:17	20° \approx 18'58		evening rise	2477 Nov 02 21:23	20° \approx 27'31	
max. Earth dist.	2476 Nov 13 02:21	25° \approx 03'42	1.44363 AU		2477 Nov 09 02:07	0° \approx	
	2476 Nov 16 05:12	0° \approx			2477 Nov 30 10:26	0° \approx	
evening rise	2476 Nov 23 10:09	11° \approx 12'33		evening max el	2477 Dec 04 07:42	4° \approx 21'18	21°43'15
	2476 Dec 05 20:21	0° \approx		retrograde	2477 Dec 13 09:35	9° \approx 45'29	
evening max el	2476 Dec 21 10:52	20° \approx 49'55	20°31'38	asc. node	2477 Dec 16 23:51	8° \approx 34'50	

evening set	2477 Dec 17 17:00	8° S 03'22		evening set	2478 Dec 01 24:00	21° S 58'49	
inferior conj	2477 Dec 23 01:23	1° S 45'58	1°57'19	asc. node	2478 Dec 03 20:51	20° S 08'11	
minimum elong	2477 Dec 22 23:05	1° S 53'54	1°56'31	inferior conj	2478 Dec 07 08:56	15° S 36'01	1°10'34
min. Earth dist.	2477 Dec 23 04:42	1° S 34'28	0.67775 AU	minimum elong	2478 Dec 07 07:23	15° S 41'24	1°09'57
	2477 Dec 24 08:12	30° R 27		min. Earth dist.	2478 Dec 07 01:25	16° S 01'58	0.67862 AU
morning rise	2477 Dec 28 05:01	25° S 33'53		morning rise	2478 Dec 12 14:39	9° S 27'05	
direct	2478 Jan 02 04:15	23° S 26'22		direct	2478 Dec 16 23:20	7° S 42'21	
morning max el	2478 Jan 12 04:43	29° S 22'57	22°57'20	morning max el	2478 Dec 25 18:44	12° S 51'19	21°32'14
	2478 Jan 12 19:12	0° S			2479 Jan 08 07:10	0° S	
desc. node	2478 Jan 23 23:32	13° S 48'58		desc. node	2479 Jan 10 20:33	3° S 40'23	
	2478 Feb 04 03:17	0° \approx		morning set	2479 Jan 26 11:14	27° S 24'26	
morning set	2478 Feb 15 17:01	18° \approx 22'30			2479 Jan 28 02:17	0° \approx	
max. Earth dist.	2478 Feb 20 05:03	25° \approx 58'52	1.39831 AU	max. Earth dist.	2479 Feb 02 04:47	8° \approx 17'56	1.41907 AU
	2478 Feb 22 12:33	0° H					
superior conj	2478 Feb 27 22:27	9° H 42'42	-1°54'57	superior conj	2479 Feb 09 17:39	21° \approx 03'31	-2°05'13
minimum elong	2478 Feb 28 02:20	10° H 00'28	1°54'41	minimum elong	2479 Feb 09 18:42	21° \approx 08'07	2°05'11
evening rise	2478 Mar 09 14:39	27° H 57'20			2479 Feb 14 19:14	0° H	
	2478 Mar 10 16:22	0° Y		evening rise	2479 Feb 20 17:30	10° H 45'28	
asc. node	2478 Mar 14 23:12	8° Y 00'41		asc. node	2479 Mar 01 20:12	26° H 54'11	
evening max el	2478 Mar 25 19:33	23° Y 59'24	18°29'47		2479 Mar 03 19:17	0° Y	
retrograde	2478 Apr 02 09:42	27° Y 43'28		evening max el	2479 Mar 09 05:01	6° Y 52'52	18°09'53
evening set	2478 Apr 04 18:15	27° Y 23'00		retrograde	2479 Mar 16 00:12	10° Y 19'15	
inferior conj	2478 Apr 12 05:38	22° Y 52'37	2°31'15	evening set	2479 Mar 18 14:47	9° Y 49'28	
minimum elong	2478 Apr 12 09:32	22° Y 44'49	2°30'16	inferior conj	2479 Mar 25 09:30	4° Y 58'13	3°19'14
min. Earth dist.	2478 Apr 15 15:57	20° Y 10'12	0.58298 AU	minimum elong	2479 Mar 25 12:13	4° Y 51'57	3°18'49
morning rise	2478 Apr 19 21:49	17° Y 26'48		min. Earth dist.	2479 Mar 28 16:46	1° Y 56'36	0.60442 AU
desc. node	2478 Apr 21 22:44	16° Y 35'16			2479 Mar 31 02:29	30° R 27	
direct	2478 Apr 25 20:40	15° Y 55'31		morning rise	2479 Apr 01 07:32	29° H 10'32	
morning max el	2478 May 10 06:00	23° Y 36'10	26°48'54	direct	2479 Apr 07 23:09	27° H 03'06	
	2478 May 16 00:19	0° B		desc. node	2479 Apr 08 19:45	27° H 05'09	
	2478 Jun 03 20:08	0° II			2479 Apr 16 07:57	0° Y	
morning set	2478 Jun 09 00:03	10° II 25'59		morning max el	2479 Apr 22 05:45	4° Y 55'22	27°37'44
asc. node	2478 Jun 10 22:27	14° II 32'21			2479 May 10 20:50	0° B	
superior conj	2478 Jun 16 00:51	25° II 40'33	0°51'33	morning set	2479 May 24 06:49	25° B 02'54	
minimum elong	2478 Jun 15 22:50	25° II 29'28	0°51'09		2479 May 26 15:25	0° II	
max. Earth dist.	2478 Jun 16 01:35	25° II 44'35	1.32180 AU	asc. node	2479 May 28 19:30	4° II 39'50	
	2478 Jun 18 00:01	0° S		max. Earth dist.	2479 May 30 13:13	8° II 27'12	1.32198 AU
evening rise	2478 Jun 22 22:12	10° S 37'06		superior conj	2479 May 31 12:11	10° II 33'08	0°28'08
	2478 Jul 02 21:40	0° Ω		minimum elong	2479 May 31 10:57	10° II 26'21	0°27'53
desc. node	2478 Jul 18 22:03	23° Ω 21'20		evening rise	2479 Jun 07 08:37	25° II 27'43	
evening max el	2478 Jul 22 17:22	27° Ω 19'17	26°38'07		2479 Jun 09 12:41	0° S	
	2478 Jul 25 19:32	0° M			2479 Jun 27 01:28	0° Ω	
retrograde	2478 Aug 05 16:34	4° M 31'49		evening max el	2479 Jul 04 12:43	8° Ω 34'26	25°27'51
evening set	2478 Aug 12 10:51	2° M 35'23		desc. node	2479 Jul 05 19:03	9° Ω 44'14	
	2478 Aug 16 06:29	30° R 27		retrograde	2479 Jul 18 12:53	15° Ω 41'59	
min. Earth dist.	2478 Aug 16 07:03	29° Ω 58'54	0.60076 AU	evening set	2479 Jul 24 08:00	14° Ω 23'33	
inferior conj	2478 Aug 19 13:50	27° Ω 20'16	-4°42'28	min. Earth dist.	2479 Jul 29 00:46	11° Ω 42'30	0.58035 AU
minimum elong	2478 Aug 19 18:08	27° Ω 11'34	4°41'52	inferior conj	2479 Aug 01 04:31	9° Ω 30'13	-5°01'17
morning rise	2478 Aug 27 03:25	22° Ω 40'37		minimum elong	2479 Aug 01 05:00	9° Ω 29'23	5°01'17
direct	2478 Aug 29 13:23	22° Ω 19'01		morning rise	2479 Aug 09 04:23	5° Ω 13'01	
morning max el	2478 Sep 06 01:29	25° Ω 58'46	18°12'12	direct	2479 Aug 11 17:03	4° Ω 53'18	
asc. node	2478 Sep 06 21:37	26° Ω 49'43		morning max el	2479 Aug 20 05:52	8° Ω 55'25	18°51'38
	2478 Sep 09 12:56	0° M		asc. node	2479 Aug 24 18:40	14° Ω 14'44	
morning set	2478 Sep 21 22:30	21° M 10'59			2479 Sep 03 00:44	0° M	
	2478 Sep 26 14:53	0° S		morning set	2479 Sep 05 18:33	5° M 19'37	
superior conj	2478 Oct 01 10:23	8° S 51'27	1°23'39	superior conj	2479 Sep 14 06:40	21° M 54'13	1°39'14
minimum elong	2478 Oct 01 14:18	9° S 09'12	1°23'15	minimum elong	2479 Sep 14 08:55	22° M 04'52	1°39'06
max. Earth dist.	2478 Oct 09 01:10	22° S 11'56	1.41175 AU		2479 Sep 18 14:44	0° S	
	2478 Oct 13 17:50	0° M		max. Earth dist.	2479 Sep 21 05:47	4° S 44'33	1.39133 AU
evening rise	2478 Oct 14 00:55	0° M 28'49		evening rise	2479 Sep 25 04:05	11° S 35'59	
desc. node	2478 Oct 14 21:21	1° M 51'36		desc. node	2479 Oct 01 18:23	22° S 30'47	
	2478 Nov 02 13:59	0° S			2479 Oct 06 13:15	0° M	
evening max el	2478 Nov 16 23:41	17° S 54'45	23°01'54		2479 Oct 29 00:40	0° S	
retrograde	2478 Nov 27 04:17	23° S 57'30		evening max el	2479 Oct 30 12:50	1° S 32'36	24°21'31
				retrograde	2479 Nov 10 19:17	8° S 08'14	

































































































































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asc. node	2479 Nov 20 17:52	0°♊41'45		evening set	2480 Oct 30 05:28	19°♍42'27	
min. Earth dist.	2479 Nov 20 21:28	0°♊29'43	0.67615 AU	min. Earth dist.	2480 Nov 03 14:26	14°♍54'15	0.67029 AU
	2479 Nov 21 06:20	30°♋♍		inferior conj	2480 Nov 04 19:26	13°♍21'27	-0°37'25
inferior conj	2479 Nov 21 15:33	29°♍29'00	0°18'36	minimum elong	2480 Nov 04 20:24	13°♍18'22	0°37'00
minimum elong	2479 Nov 21 15:06	29°♍30'31	0°18'24	asc. node	2480 Nov 06 14:55	11°♍05'48	
morning rise	2479 Nov 27 01:31	23°♍25'33		morning rise	2480 Nov 10 11:36	7°♍26'08	
direct	2479 Nov 30 20:55	22°♍02'34		direct	2480 Nov 13 19:30	6°♍22'14	
morning max el	2479 Dec 08 16:03	26°♍30'40	20°17'18	morning max el	2480 Nov 20 21:14	10°♍20'10	19°16'15
	2479 Dec 11 19:28	0°♊			2480 Dec 05 07:43	0°♊	
desc. node	2479 Dec 28 17:36	23°♊53'00		morning set	2480 Dec 14 10:20	14°♊03'32	
	2480 Jan 01 18:10	0°♋		desc. node	2480 Dec 14 14:39	14°♊20'18	
morning set	2480 Jan 05 09:10	5°♋34'34			2480 Dec 24 15:35	0°♋	
max. Earth dist.	2480 Jan 15 12:46	21°♋33'22	1.43623 AU	max. Earth dist.	2480 Dec 28 03:40	5°♋30'44	1.44751 AU
	2480 Jan 20 17:34	0°♌					
superior conj	2480 Jan 21 11:45	1°♌14'54	-2°00'43	superior conj	2480 Dec 31 04:25	10°♋18'50	-1°37'25
minimum elong	2480 Jan 21 07:32	0°♌57'31	2°00'32	minimum elong	2480 Dec 30 19:45	9°♋44'21	1°36'39
evening rise	2480 Feb 03 03:31	22°♌45'36			2481 Jan 12 08:36	0°♌	
	2480 Feb 07 07:26	0°♋		evening rise	2481 Jan 14 16:32	3°♌50'47	
asc. node	2480 Feb 16 17:13	15°♋12'46			2481 Jan 31 06:40	0°♋	
evening max el	2480 Feb 20 17:21	20°♋04'21	18°09'20	asc. node	2481 Feb 02 14:14	2°♋46'07	
retrograde	2480 Feb 27 04:29	23°♋28'07		evening max el	2481 Feb 03 05:40	3°♋26'40	18°27'32
evening set	2480 Mar 01 00:30	22°♋47'42		retrograde	2481 Feb 09 18:11	7°♋00'49	
inferior conj	2480 Mar 07 06:24	17°♋36'00	3°39'46	evening set	2481 Feb 12 19:37	6°♋09'02	
minimum elong	2480 Mar 07 07:11	17°♋33'58	3°39'43	inferior conj	2481 Feb 18 16:19	0°♋38'27	3°39'39
min. Earth dist.	2480 Mar 10 01:45	14°♋39'54	0.62547 AU	minimum elong	2481 Feb 18 15:24	0°♋41'07	3°39'36
morning rise	2480 Mar 13 12:42	11°♋35'13			2481 Feb 19 05:25	30°♋♌	
direct	2480 Mar 20 11:00	8°♋59'58		min. Earth dist.	2481 Feb 20 10:22	28°♌06'49	0.64381 AU
desc. node	2480 Mar 25 16:47	10°♋17'35		morning rise	2481 Feb 24 10:35	24°♌30'19	
morning max el	2480 Apr 03 11:15	16°♋56'04	27°49'34	direct	2481 Mar 03 06:36	21°♌40'42	
	2480 Apr 14 07:12	0°♎		desc. node	2481 Mar 12 13:50	25°♌42'34	
	2480 May 02 13:45	0°♏		morning max el	2481 Mar 16 20:26	29°♌32'59	27°25'23
morning set	2480 May 07 08:11	9°♏20'37			2481 Mar 17 07:06	0°♋	
max. Earth dist.	2480 May 12 21:13	20°♏55'20	1.32619 AU		2481 Apr 08 05:04	0°♎	
				morning set	2481 Apr 21 01:32	23°♎11'16	
superior conj	2480 May 14 21:24	25°♏15'16	0°02'09		2481 Apr 24 11:12	0°♏	
minimum elong	2480 May 14 21:18	25°♏14'43	0°02'09	max. Earth dist.	2481 Apr 25 21:40	2°♏57'15	1.33468 AU
behind sun begin	2480 May 14 16:09	24°♏46'47					
behind sun end	2480 May 15 02:28	25°♏42'41		superior conj	2481 Apr 29 02:39	9°♏41'13	-0°25'33
asc. node	2480 May 14 16:32	24°♏48'50		minimum elong	2481 Apr 29 03:57	9°♏48'02	0°25'16
	2480 May 17 01:46	0°♐		asc. node	2481 May 01 13:35	14°♏55'37	
evening rise	2480 May 21 20:26	10°♐18'50		evening rise	2481 May 06 07:48	25°♏04'21	
	2480 May 31 23:20	0°♑			2481 May 08 16:47	0°♐	
evening max el	2480 Jun 15 02:48	19°♑12'32	23°57'00	evening max el	2481 May 27 17:59	29°♐41'02	22°20'44
desc. node	2480 Jun 21 16:04	24°♑09'55			2481 May 28 01:53	0°♑	
retrograde	2480 Jun 28 21:01	26°♑07'28		desc. node	2481 Jun 08 13:04	6°♑03'26	
evening set	2480 Jul 03 06:09	25°♑25'07		retrograde	2481 Jun 09 17:10	6°♑06'35	
min. Earth dist.	2480 Jul 09 13:22	22°♑23'13	0.56284 AU	evening set	2481 Jun 12 16:23	5°♑47'06	
inferior conj	2480 Jul 11 22:56	20°♑55'06	-4°43'18	min. Earth dist.	2481 Jun 21 00:35	2°♑11'10	0.55156 AU
minimum elong	2480 Jul 11 17:52	21°♑02'55	4°42'38	inferior conj	2481 Jun 21 23:54	1°♑38'14	-3°37'17
morning rise	2480 Jul 20 08:13	16°♑56'41		minimum elong	2481 Jun 21 15:50	1°♑49'39	3°35'07
direct	2480 Jul 23 01:39	16°♑37'30			2481 Jun 24 23:38	30°♋♐	
morning max el	2480 Aug 02 00:09	21°♑14'09	19°52'34	morning rise	2481 Jun 30 17:16	27°♐46'48	
	2480 Aug 09 01:58	0°♑		direct	2481 Jul 03 17:15	27°♐26'30	
asc. node	2480 Aug 10 15:44	2°♑29'29			2481 Jul 11 16:39	0°♑	
morning set	2480 Aug 19 21:51	19°♑49'34		morning max el	2481 Jul 15 07:02	2°♑49'43	21°13'59
	2480 Aug 24 21:54	0°♒		asc. node	2481 Jul 28 12:50	21°♑22'23	
					2481 Aug 02 00:16	0°♑	
superior conj	2480 Aug 27 17:38	5°♒40'39	1°45'12	morning set	2481 Aug 04 05:56	4°♑34'07	
minimum elong	2480 Aug 27 18:03	5°♒42'45	1°45'12				
max. Earth dist.	2480 Sep 02 10:40	16°♒45'35	1.37121 AU	superior conj	2481 Aug 11 14:58	19°♑58'34	1°43'19
evening rise	2480 Sep 06 06:01	23°♒46'34		minimum elong	2481 Aug 11 13:56	19°♑53'13	1°43'17
	2480 Sep 09 18:37	0°♓		max. Earth dist.	2481 Aug 15 20:57	28°♑36'50	1.35350 AU
desc. node	2480 Sep 17 15:24	12°♓58'57			2481 Aug 16 13:43	0°♒	
	2480 Sep 29 06:01	0°♍		evening rise	2481 Aug 20 02:41	6°♒50'55	
evening max el	2480 Oct 12 00:58	15°♍12'50	25°35'10		2481 Sep 02 11:24	0°♓	
				desc. node	2481 Sep 04 12:25	3°♓10'35	

evening max el	2481 Sep 24 13:07	28°♄50'43	26°35'14		2482 Aug 27 09:53	0°♄	
	2481 Sep 25 18:43	0°♄		evening max el	2482 Sep 07 01:12	12°♄18'03	27°14'25
retrograde	2481 Oct 07 11:08	6°♄04'28		retrograde	2482 Sep 20 11:05	19°♄36'43	
evening set	2481 Oct 14 00:15	3°♄24'00		evening set	2482 Sep 27 10:39	16°♄53'33	
	2481 Oct 17 09:31	30°♄		min. Earth dist.	2482 Oct 01 05:57	13°♄17'20	0.64805 AU
min. Earth dist.	2481 Oct 18 01:59	29°♄12'04	0.66095 AU	inferior conj	2482 Oct 03 10:58	10°♄51'43	-2°35'06
inferior conj	2481 Oct 19 18:38	27°♄10'22	-1°36'00	minimum elong	2482 Oct 03 15:08	10°♄40'14	2°33'33
minimum elong	2481 Oct 19 21:13	27°♄02'38	1°34'56	morning rise	2482 Oct 09 20:37	5°♄21'12	
asc. node	2481 Oct 24 12:00	22°♄16'27		asc. node	2482 Oct 11 09:05	4°♄51'08	
morning rise	2481 Oct 25 18:48	21°♄25'59		direct	2482 Oct 12 12:07	4°♄44'25	
direct	2481 Oct 28 17:18	20°♄37'35		morning max el	2482 Oct 19 00:09	8°♄12'34	18°02'18
morning max el	2481 Nov 04 08:46	24°♄15'58	18°30'55		2482 Nov 02 18:30	0°♄	
	2481 Nov 09 02:38	0°♄		morning set	2482 Nov 05 18:01	4°♄59'09	
morning set	2481 Nov 24 11:32	23°♄47'54		desc. node	2482 Nov 18 08:43	25°♄41'47	
	2481 Nov 28 08:44	0°♄					
desc. node	2481 Dec 01 11:41	4°♄57'42		superior conj	2482 Nov 19 14:45	27°♄42'07	-0°08'29
				minimum elong	2482 Nov 19 13:43	27°♄37'57	0°08'19
superior conj	2481 Dec 10 06:25	18°♄48'05	-0°56'48	behind sun begin	2482 Nov 19 04:32	27°♄01'13	
minimum elong	2481 Dec 09 23:19	18°♄20'14	0°55'54	behind sun end	2482 Nov 19 22:53	28°♄14'38	
max. Earth dist.	2481 Dec 10 22:02	19°♄49'25	1.45172 AU		2482 Nov 21 01:20	0°♄	
	2481 Dec 17 09:37	0°♄		max. Earth dist.	2482 Nov 23 16:49	4°♄11'34	1.44855 AU
evening rise	2481 Dec 26 06:08	13°♄58'21		evening rise	2482 Dec 05 23:22	23°♄19'25	
greatest brilliancy	2482 Jan 04 13:53	28°♄42'55	-0.8m		2482 Dec 10 07:26	0°♄	
	2482 Jan 05 09:39	0°♄		greatest brilliancy	2482 Dec 19 21:02	14°♄30'00	-0.6m
evening max el	2482 Jan 17 15:32	16°♄53'58	19°03'29		2482 Dec 31 11:58	0°♄	
asc. node	2482 Jan 20 11:17	19°♄20'48		evening max el	2482 Dec 31 21:06	0°♄23'51	19°55'31
retrograde	2482 Jan 24 13:20	20°♄49'24		asc. node	2483 Jan 07 08:20	4°♄42'19	
evening set	2482 Jan 27 21:05	19°♄45'17		retrograde	2483 Jan 08 10:58	4°♄49'07	
inferior conj	2482 Feb 02 11:32	13°♄58'07	3°24'15	evening set	2483 Jan 12 02:28	3°♄31'26	
minimum elong	2482 Feb 02 09:30	14°♄04'32	3°23'56		2483 Jan 15 14:58	30°♄	
min. Earth dist.	2482 Feb 04 00:16	12°♄02'05	0.65843 AU	inferior conj	2483 Jan 17 13:06	27°♄30'15	2°57'20
morning rise	2482 Feb 07 21:37	7°♄46'08		minimum elong	2483 Jan 17 10:33	27°♄38'44	2°56'43
direct	2482 Feb 14 08:53	4°♄56'00		min. Earth dist.	2483 Jan 18 11:44	26°♄14'42	0.66904 AU
desc. node	2482 Feb 27 10:53	12°♄44'28		morning rise	2483 Jan 22 18:25	21°♄16'51	
morning max el	2482 Feb 27 06:23	12°♄33'07	26°30'57	direct	2483 Jan 28 17:03	18°♄37'41	
	2482 Mar 13 07:24	0°♄		morning max el	2483 Feb 09 15:16	25°♄44'44	25°15'10
	2482 Mar 31 20:20	0°♄			2483 Feb 13 12:56	0°♄	
morning set	2482 Apr 04 07:15	6°♄23'09		desc. node	2483 Feb 14 07:54	0°♄55'45	
max. Earth dist.	2482 Apr 08 11:05	14°♄25'11	1.34771 AU		2483 Mar 06 20:21	0°♄	
				morning set	2483 Mar 17 20:35	18°♄42'47	
superior conj	2482 Apr 13 01:35	23°♄43'13	-0°53'47	max. Earth dist.	2483 Mar 21 12:50	25°♄27'44	1.36517 AU
minimum elong	2482 Apr 13 04:21	23°♄57'25	0°53'16		2483 Mar 23 22:21	0°♄	
	2482 Apr 16 02:10	0°♄					
asc. node	2482 Apr 18 10:37	4°♄55'18		superior conj	2483 Mar 27 15:25	7°♄13'53	-1°20'52
evening rise	2482 Apr 20 16:42	9°♄36'49		minimum elong	2483 Mar 27 19:24	7°♄33'36	1°20'17
	2482 May 01 13:44	0°♄		evening rise	2483 Apr 04 21:00	23°♄50'03	
evening max el	2482 May 09 17:40	10°♄30'42	20°52'57	asc. node	2483 Apr 05 07:39	24°♄43'44	
retrograde	2482 May 21 06:26	16°♄08'00			2483 Apr 07 23:18	0°♄	
evening set	2482 May 23 09:50	15°♄57'06		evening max el	2483 Apr 22 05:17	21°♄59'06	19°41'47
desc. node	2482 May 26 10:07	15°♄07'58		retrograde	2483 May 02 00:09	26°♄43'00	
inferior conj	2482 Jun 01 17:31	11°♄59'16	-1°49'50	evening set	2483 May 04 00:26	26°♄31'54	
minimum elong	2482 Jun 01 12:22	12°♄06'36	1°48'01	inferior conj	2483 May 12 18:21	22°♄29'21	0°09'17
min. Earth dist.	2482 Jun 02 12:52	11°♄31'44	0.54918 AU	minimum elong	2483 May 12 18:45	22°♄28'42	0°09'08
morning rise	2482 Jun 10 14:36	7°♄55'04		transit middle	2483 May 12 18:45	22°♄28'42	0°09'08
direct	2482 Jun 14 02:35	7°♄28'40		transit begin	2483 May 12 15:32	22°♄33'45	
morning max el	2482 Jun 27 03:43	13°♄43'55	22°51'01	transit end	2483 May 12 21:59	22°♄23'39	
	2482 Jul 09 12:51	0°♄		desc. node	2483 May 13 07:08	22°♄09'18	
asc. node	2482 Jul 15 09:54	10°♄43'13		min. Earth dist.	2483 May 15 02:51	21°♄01'16	0.55648 AU
morning set	2482 Jul 19 16:45	19°♄26'52		morning rise	2483 May 21 10:34	17°♄55'34	
	2482 Jul 24 15:30	0°♄		direct	2483 May 25 19:27	17°♄12'58	
				morning max el	2483 Jun 08 18:29	24°♄12'19	24°33'18
superior conj	2482 Jul 26 19:20	4°♄37'18	1°35'03		2483 Jun 14 01:30	0°♄	
minimum elong	2482 Jul 26 17:22	4°♄26'49	1°34'52	asc. node	2483 Jul 02 06:56	0°♄24'30	
max. Earth dist.	2482 Jul 29 16:01	10°♄39'46	1.33943 AU		2483 Jul 02 02:10	0°♄	
evening rise	2482 Aug 03 13:33	20°♄36'40		morning set	2483 Jul 04 04:33	4°♄22'26	
	2482 Aug 08 11:48	0°♄					
desc. node	2482 Aug 22 09:27	22°♄58'17		superior conj	2483 Jul 11 04:08	19°♄28'27	1°21'31

minimum elong	2483 Jul 11 01:46	19°☿15'34	1°21'11	superior conj	2484 Jun 24 15:20	4°☿25'27	1°03'35
max. Earth dist.	2483 Jul 12 19:49	23°☿03'25	1.32947 AU	minimum elong	2484 Jun 24 13:03	4°☿12'56	1°03'11
	2483 Jul 16 02:04	0°☿		max. Earth dist.	2484 Jun 25 05:43	5°☿44'28	1.32352 AU
evening rise	2483 Jul 18 10:39	4°☿52'23		evening rise	2484 Jul 01 14:53	19°☿28'33	
	2483 Aug 01 03:38	0°☿			2484 Jul 06 20:48	0°☿	
desc. node	2483 Aug 09 06:28	12°☿11'31			2484 Jul 25 15:54	0°☿	
evening max el	2483 Aug 20 11:38	25°☿22'32	27°25'57	desc. node	2484 Jul 26 03:29	0°☿36'07	
	2483 Aug 26 06:50	0°☿		evening max el	2484 Aug 01 17:53	7°☿51'06	27°05'08
retrograde	2483 Sep 03 04:42	2°☿39'37		retrograde	2484 Aug 15 15:02	15°☿04'25	
evening set	2483 Sep 10 09:26	0°☿04'39		evening set	2484 Aug 22 16:34	12°☿50'22	
	2483 Sep 10 12:02	30°☿☿		min. Earth dist.	2484 Aug 26 08:10	10°☿08'04	0.61265 AU
min. Earth dist.	2483 Sep 14 00:23	27°☿00'05	0.63176 AU	inferior conj	2484 Aug 29 11:37	7°☿23'45	-4°20'40
inferior conj	2483 Sep 16 17:41	24°☿18'47	-3°31'40	minimum elong	2484 Aug 29 16:53	7°☿12'14	4°19'35
minimum elong	2483 Sep 16 23:00	24°☿05'38	3°30'04	morning rise	2484 Sep 05 18:54	2°☿30'53	
morning rise	2483 Sep 23 13:55	19°☿05'24		direct	2484 Sep 08 04:38	2°☿07'12	
direct	2483 Sep 26 01:05	18°☿36'39		asc. node	2484 Sep 14 03:09	4°☿37'08	
asc. node	2483 Sep 28 06:08	19°☿00'16		morning max el	2484 Sep 15 06:33	5°☿39'03	17°58'53
morning max el	2483 Oct 02 16:24	22°☿02'35	17°51'16		2484 Sep 30 18:37	0°☿	
	2483 Oct 08 19:23	0°☿		morning set	2484 Oct 01 02:38	0°☿36'53	
morning set	2483 Oct 19 01:10	17°☿21'40					
	2483 Oct 26 07:49	0°☿		superior conj	2484 Oct 11 08:15	19°☿07'08	1°09'38
superior conj	2483 Oct 30 21:58	7°☿44'41	0°35'53	minimum elong	2484 Oct 11 12:42	19°☿26'36	1°09'06
minimum elong	2483 Oct 31 01:25	7°☿59'02	0°35'24		2484 Oct 17 16:47	0°☿	
desc. node	2483 Nov 05 05:45	16°☿28'50		max. Earth dist.	2484 Oct 18 21:48	2°☿00'40	1.42275 AU
max. Earth dist.	2483 Nov 06 09:25	18°☿20'20	1.43850 AU	desc. node	2484 Oct 22 02:48	7°☿15'50	
	2483 Nov 13 18:37	0°☿		evening rise	2484 Oct 25 00:43	11°☿56'00	
evening rise	2483 Nov 15 07:56	2°☿24'30			2484 Nov 05 20:09	0°☿	
	2483 Dec 03 21:05	0°☿		evening max el	2484 Nov 26 15:58	27°☿26'57	22°16'09
evening max el	2483 Dec 14 21:14	13°☿54'36	21°01'00		2484 Nov 29 10:14	0°☿	
retrograde	2483 Dec 23 08:40	18°☿55'53		retrograde	2484 Dec 06 04:49	3°☿07'10	
asc. node	2483 Dec 25 05:22	18°☿36'39		evening set	2484 Dec 10 17:22	1°☿17'57	
evening set	2483 Dec 27 09:47	17°☿23'04		asc. node	2484 Dec 11 02:22	0°☿58'49	
inferior conj	2484 Jan 01 18:32	11°☿10'50	2°21'23		2484 Dec 12 02:41	30°☿☿	
minimum elong	2484 Jan 01 16:01	11°☿19'31	2°20'35	inferior conj	2484 Dec 16 01:50	24°☿57'56	1°38'12
min. Earth dist.	2484 Jan 02 04:34	10°☿36'21	0.67570 AU	minimum elong	2484 Dec 15 23:48	25°☿04'58	1°37'25
morning rise	2484 Jan 06 22:03	4°☿57'53		min. Earth dist.	2484 Dec 16 00:26	25°☿02'46	0.67863 AU
direct	2484 Jan 12 06:03	2°☿37'30		morning rise	2484 Dec 21 06:07	18°☿47'11	
morning max el	2484 Jan 22 23:36	9°☿01'12	23°48'18	direct	2484 Dec 25 23:07	16°☿49'20	
desc. node	2484 Feb 01 04:56	19°☿56'02		morning max el	2485 Jan 04 10:36	22°☿24'30	22°20'12
	2484 Feb 08 11:45	0°☿			2485 Jan 11 00:13	0°☿	
morning set	2484 Feb 27 11:28	29°☿53'14		desc. node	2485 Jan 18 01:59	9°☿31'45	
	2484 Feb 27 13:03	0°☿			2485 Jan 31 20:12	0°☿	
max. Earth dist.	2484 Mar 02 08:00	6°☿35'48	1.38587 AU	morning set	2485 Feb 06 22:18	9°☿41'21	
				max. Earth dist.	2485 Feb 12 04:56	18°☿25'53	1.40745 AU
superior conj	2484 Mar 09 16:26	20°☿03'19	-1°44'23		2485 Feb 18 21:10	0°☿	
minimum elong	2484 Mar 09 20:49	20°☿23'58	1°43'56	superior conj	2485 Feb 20 00:01	1°☿59'48	-2°00'47
	2484 Mar 14 20:37	0°☿		minimum elong	2485 Feb 20 03:02	2°☿13'18	2°00'38
evening rise	2484 Mar 18 18:02	7°☿36'38		evening rise	2485 Mar 02 04:37	20°☿48'38	
asc. node	2484 Mar 22 04:41	14°☿15'51			2485 Mar 07 03:34	0°☿	
	2484 Mar 31 14:32	0°☿		asc. node	2485 Mar 09 01:42	3°☿25'25	
evening max el	2484 Apr 04 03:45	4°☿06'36	18°50'18	evening max el	2485 Mar 18 10:05	16°☿45'19	18°18'54
retrograde	2484 Apr 12 09:49	8°☿07'45		retrograde	2485 Mar 25 14:41	20°☿20'04	
evening set	2484 Apr 14 14:59	7°☿51'31		evening set	2485 Mar 28 01:57	19°☿55'45	
inferior conj	2484 Apr 22 13:21	3°☿32'30	1°48'47	inferior conj	2485 Apr 04 05:43	15°☿16'10	2°55'28
minimum elong	2484 Apr 22 16:58	3°☿25'55	1°47'41	minimum elong	2485 Apr 04 09:18	15°☿08'31	2°54'41
min. Earth dist.	2484 Apr 25 19:12	1°☿12'25	0.57177 AU	min. Earth dist.	2485 Apr 07 16:02	12°☿22'45	0.59192 AU
	2484 Apr 27 15:21	30°☿☿		morning rise	2485 Apr 11 14:04	9°☿39'55	
desc. node	2484 Apr 29 04:07	29°☿07'17		desc. node	2485 Apr 16 01:09	8°☿02'15	
morning rise	2484 Apr 30 15:50	28°☿24'31		direct	2485 Apr 17 21:04	7°☿53'14	
direct	2484 May 06 01:44	27°☿13'40		morning max el	2485 May 02 05:48	15°☿39'13	27°14'11
	2484 May 14 13:13	0°☿			2485 May 13 21:42	0°☿	
morning max el	2484 May 20 09:34	4°☿42'11	26°06'03		2485 May 31 01:59	0°☿	
	2484 Jun 07 17:46	0°☿		morning set	2485 Jun 02 00:43	4°☿00'47	
morning set	2484 Jun 17 15:47	19°☿15'59		asc. node	2485 Jun 05 00:59	10°☿24'49	
asc. node	2484 Jun 18 03:57	20°☿20'22		max. Earth dist.	2485 Jun 08 17:57	18°☿30'47	1.32141 AU
	2484 Jun 22 15:02	0°☿					

superior conj	2485 Jun 09 03:05	19° Π 21'03	0°41'59	superior conj	2486 May 24 13:44	4° Π 09'48	0°17'23
minimum elong	2485 Jun 09 01:21	19° Π 11'31	0°41'38	minimum elong	2486 May 24 12:56	4° Π 05'27	0°17'13
	2485 Jun 13 23:47	0° \mathfrak{S}		evening rise	2486 May 31 10:51	19° Π 07'04	
evening rise	2485 Jun 15 23:38	4° \mathfrak{S} 15'45			2486 Jun 05 18:41	0° \mathfrak{S}	
	2485 Jun 29 16:21	0° Ω			2486 Jun 25 21:50	0° Ω	
desc. node	2485 Jul 13 00:29	17° Ω 51'03		evening max el	2486 Jun 26 09:33	0° Ω 28'31	24°50'48
evening max el	2485 Jul 14 17:14	19° Ω 32'30	26°11'27	desc. node	2486 Jun 29 21:28	3° Ω 28'20	
retrograde	2485 Jul 28 16:50	26° Ω 42'53		retrograde	2486 Jul 10 08:30	7° Ω 33'03	
evening set	2485 Aug 04 03:14	25° Ω 01'43		evening set	2486 Jul 15 14:09	6° Ω 30'43	
min. Earth dist.	2485 Aug 08 05:57	22° Ω 25'52	0.59203 AU	min. Earth dist.	2486 Jul 20 20:56	3° Ω 42'33	0.57235 AU
inferior conj	2485 Aug 11 13:08	19° Ω 56'01	-4°53'57	inferior conj	2486 Jul 23 19:12	1° Ω 46'51	-4°59'03
minimum elong	2485 Aug 11 16:10	19° Ω 50'16	4°53'42	minimum elong	2486 Jul 23 17:22	1° Ω 49'53	4°58'57
morning rise	2485 Aug 19 07:14	15° Ω 26'08			2486 Jul 26 14:25	30° \mathfrak{R} \mathfrak{S}	
direct	2485 Aug 21 18:13	15° Ω 05'26		morning rise	2486 Jul 31 23:15	27° \mathfrak{S} 38'53	
morning max el	2485 Aug 29 15:25	18° Ω 52'45	18°26'23	direct	2486 Aug 03 13:39	27° \mathfrak{S} 19'40	
asc. node	2485 Sep 01 00:11	21° Ω 26'47			2486 Aug 10 18:54	0° Ω	
	2485 Sep 06 19:56	0° \mathfrak{M}		morning max el	2486 Aug 12 15:53	1° Ω 34'41	19°14'57
morning set	2485 Sep 14 17:02	14° \mathfrak{M} 28'50		asc. node	2486 Aug 18 21:15	9° Ω 14'30	
	2485 Sep 22 20:39	0° $\underline{\Omega}$		morning set	2486 Aug 29 16:28	28° Ω 47'11	
					2486 Aug 30 07:06	0° \mathfrak{M}	
superior conj	2485 Sep 23 17:45	1° $\underline{\Omega}$ 37'53	1°31'33	superior conj	2486 Sep 06 20:53	15° \mathfrak{M} 01'05	1°42'50
minimum elong	2485 Sep 23 21:01	1° $\underline{\Omega}$ 53'02	1°31'16	minimum elong	2486 Sep 06 22:19	15° \mathfrak{M} 08'05	1°42'46
max. Earth dist.	2485 Oct 01 04:42	14° $\underline{\Omega}$ 58'21	1.40323 AU	max. Earth dist.	2486 Sep 13 08:19	27° \mathfrak{M} 13'30	1.38257 AU
evening rise	2485 Oct 05 13:56	22° $\underline{\Omega}$ 24'01			2486 Sep 14 21:10	0° $\underline{\Omega}$	
desc. node	2485 Oct 08 23:50	27° $\underline{\Omega}$ 58'51		evening rise	2486 Sep 17 03:06	3° $\underline{\Omega}$ 58'46	
	2485 Oct 10 06:05	0° \mathfrak{M}		desc. node	2486 Sep 25 20:51	18° $\underline{\Omega}$ 33'47	
	2485 Oct 30 20:35	0° \mathfrak{J}			2486 Oct 03 08:15	0° \mathfrak{M}	
evening max el	2485 Nov 09 06:23	11° \mathfrak{J} 01'51	23°35'58	evening max el	2486 Oct 22 18:41	24° \mathfrak{M} 40'16	24°54'02
retrograde	2485 Nov 19 22:06	17° \mathfrak{J} 19'34			2486 Oct 29 12:12	0° \mathfrak{J}	
evening set	2485 Nov 24 23:38	15° \mathfrak{J} 13'28		retrograde	2486 Nov 03 11:27	1° \mathfrak{J} 28'13	
asc. node	2485 Nov 27 23:23	12° \mathfrak{J} 02'01			2486 Nov 07 22:50	30° \mathfrak{R} \mathfrak{M}	
inferior conj	2485 Nov 30 09:13	8° \mathfrak{J} 49'32	0°49'06	evening set	2486 Nov 09 02:55	29° \mathfrak{M} 06'15	
minimum elong	2485 Nov 30 08:05	8° \mathfrak{J} 53'25	0°48'36	min. Earth dist.	2486 Nov 13 16:11	23° \mathfrak{M} 57'37	0.67401 AU
min. Earth dist.	2485 Nov 29 21:06	9° \mathfrak{J} 30'56	0.67800 AU	inferior conj	2486 Nov 14 14:54	22° \mathfrak{M} 42'40	-0°04'47
morning rise	2485 Dec 05 16:31	2° \mathfrak{J} 42'53		minimum elong	2486 Nov 14 15:01	22° \mathfrak{M} 42'17	0°04'44
direct	2485 Dec 09 19:17	1° \mathfrak{J} 07'51		transit middle	2486 Nov 14 15:01	22° \mathfrak{M} 42'17	0°04'44
morning max el	2485 Dec 18 03:42	5° \mathfrak{J} 58'12	20°58'53	transit begin	2486 Nov 14 12:23	22° \mathfrak{M} 51'01	
desc. node	2486 Jan 04 23:03	29° \mathfrak{J} 33'12		transit end	2486 Nov 14 17:40	22° \mathfrak{M} 33'34	
	2486 Jan 05 06:17	0° \mathfrak{Z}		asc. node	2486 Nov 14 20:28	22° \mathfrak{M} 24'21	
morning set	2486 Jan 17 05:55	18° \mathfrak{Z} 15'25		morning rise	2486 Nov 20 03:17	16° \mathfrak{M} 42'21	
	2486 Jan 24 14:55	0° \approx		direct	2486 Nov 23 17:26	15° \mathfrak{M} 28'05	
max. Earth dist.	2486 Jan 25 08:29	1° \approx 11'23	1.42693 AU	morning max el	2486 Dec 01 04:30	19° \mathfrak{M} 42'26	19°49'26
					2486 Dec 09 11:06	0° \mathfrak{J}	
superior conj	2486 Feb 01 09:00	12° \approx 51'55	-2°05'24	desc. node	2486 Dec 22 20:05	19° \mathfrak{J} 52'37	
minimum elong	2486 Feb 01 08:02	12° \approx 47'50	2°05'24	morning set	2486 Dec 27 01:53	26° \mathfrak{J} 23'58	
	2486 Feb 11 04:38	0° \mathfrak{H}			2486 Dec 29 09:42	0° \mathfrak{Z}	
evening rise	2486 Feb 13 00:55	3° \mathfrak{H} 18'01		max. Earth dist.	2487 Jan 07 19:09	14° \mathfrak{Z} 44'52	1.44178 AU
asc. node	2486 Feb 23 22:43	22° \mathfrak{H} 05'32					
evening max el	2486 Mar 01 21:05	29° \mathfrak{H} 47'16	18°07'17	superior conj	2487 Jan 12 15:47	22° \mathfrak{Z} 32'47	-1°53'14
	2486 Mar 02 02:19	0° \mathfrak{Y}		minimum elong	2487 Jan 12 09:14	22° \mathfrak{Z} 06'15	1°52'49
retrograde	2486 Mar 08 11:48	3° \mathfrak{Y} 11'15			2487 Jan 17 05:12	0° \approx	
evening set	2486 Mar 11 04:37	2° \mathfrak{Y} 37'10		evening rise	2487 Jan 26 02:29	14° \approx 55'25	
	2486 Mar 15 04:04	30° \mathfrak{R} \mathfrak{H}			2487 Feb 04 00:48	0° \mathfrak{H}	
inferior conj	2486 Mar 17 17:24	27° \mathfrak{H} 36'59	3°30'53	asc. node	2487 Feb 10 19:46	10° \mathfrak{H} 06'31	
minimum elong	2486 Mar 17 19:18	27° \mathfrak{H} 32'19	3°30'41	evening max el	2487 Feb 13 09:44	13° \mathfrak{H} 04'04	18°14'51
min. Earth dist.	2486 Mar 20 20:14	24° \mathfrak{H} 34'50	0.61350 AU	retrograde	2487 Feb 19 20:33	16° \mathfrak{H} 30'57	
morning rise	2486 Mar 24 08:16	21° \mathfrak{H} 42'28		evening set	2487 Feb 22 18:44	15° \mathfrak{H} 45'57	
direct	2486 Mar 31 03:43	19° \mathfrak{H} 21'53		inferior conj	2487 Feb 28 20:20	10° \mathfrak{H} 26'13	3°41'50
desc. node	2486 Apr 02 22:11	19° \mathfrak{H} 43'29		minimum elong	2487 Feb 28 20:20	10° \mathfrak{H} 26'14	3°41'50
morning max el	2486 Apr 14 08:28	27° \mathfrak{H} 17'17	27°47'31	min. Earth dist.	2487 Mar 03 09:28	7° \mathfrak{H} 38'18	0.63368 AU
	2486 Apr 16 22:30	0° \mathfrak{Y}		morning rise	2487 Mar 06 21:00	4° \mathfrak{H} 21'36	
	2486 May 07 13:13	0° \mathfrak{B}		direct	2487 Mar 13 19:19	1° \mathfrak{H} 38'06	
morning set	2486 May 17 05:30	18° \mathfrak{B} 30'38		desc. node	2487 Mar 20 19:14	3° \mathfrak{H} 56'22	
asc. node	2486 May 22 22:02	0° Π 33'29		morning max el	2487 Mar 27 15:53	9° \mathfrak{H} 34'35	27°43'21
	2486 May 22 15:52	0° Π			2487 Apr 12 14:05	0° \mathfrak{Y}	
max. Earth dist.	2486 May 23 04:33	1° Π 08'53	1.32323 AU		2487 Apr 29 19:58	0° \mathfrak{B}	

morning set	2487 May 01 03:48	2°♄37'48		morning max el	2488 Mar 09 01:27	22°♄22'06	27°05'16
max. Earth dist.	2487 May 06 09:34	13°♄25'39	1.32919 AU		2488 Mar 15 18:47	0°♄	
					2488 Apr 04 19:40	0°♄	
superior conj	2487 May 08 21:30	18°♄45'38	-0°09'28	morning set	2488 Apr 13 16:39	16°♄13'05	
minimum elong	2487 May 08 21:58	18°♄48'07	0°09'22	max. Earth dist.	2488 Apr 18 05:20	25°♄11'54	1.33966 AU
behind sun begin	2487 May 08 17:40	18°♄24'57			2488 Apr 20 13:25	0°♄	
behind sun end	2487 May 09 02:17	19°♄11'19					
asc. node	2487 May 09 19:06	20°♄41'57		superior conj	2488 Apr 22 00:23	3°♄02'23	-0°37'33
	2487 May 14 02:25	0°♄		minimum elong	2488 Apr 22 02:18	3°♄12'25	0°37'10
evening rise	2487 May 15 22:41	3°♄56'05		asc. node	2488 Apr 25 16:08	10°♄46'15	
	2487 May 30 02:04	0°♄		evening rise	2488 Apr 29 09:14	18°♄36'43	
evening max el	2487 Jun 07 23:10	10°♄58'35	23°15'52		2488 May 05 01:11	0°♄	
desc. node	2487 Jun 16 18:28	16°♄53'08		evening max el	2488 May 19 17:23	21°♄33'18	21°41'45
retrograde	2487 Jun 21 11:45	17°♄43'49		retrograde	2488 Jun 01 03:19	27°♄39'17	
evening set	2487 Jun 25 05:08	17°♄13'26		desc. node	2488 Jun 02 15:30	27°♄34'06	
min. Earth dist.	2487 Jul 02 08:55	13°♄58'24	0.55700 AU	evening set	2488 Jun 03 15:56	27°♄24'56	
inferior conj	2487 Jul 04 05:29	12°♄52'56	-4°21'25	inferior conj	2488 Jun 13 01:36	23°♄23'06	-2°55'23
minimum elong	2487 Jul 03 22:31	13°♄03'13	4°20'04	minimum elong	2488 Jun 12 18:05	23°♄33'37	2°53'02
morning rise	2487 Jul 12 18:24	8°♄59'12		min. Earth dist.	2488 Jun 12 20:25	23°♄30'21	0.54934 AU
direct	2487 Jul 15 14:04	8°♄39'57		morning rise	2488 Jun 21 21:18	19°♄28'38	
morning max el	2487 Jul 26 05:26	13°♄35'53	20°24'54	direct	2488 Jun 25 01:42	19°♄06'24	
asc. node	2487 Aug 05 18:21	27°♄47'03		morning max el	2488 Jul 07 07:25	24°♄52'02	21°53'54
	2487 Aug 07 00:32	0°♄			2488 Jul 12 00:07	0°♄	
morning set	2487 Aug 13 22:07	13°♄24'24		asc. node	2488 Jul 22 15:24	16°♄52'52	
				morning set	2488 Jul 28 07:35	28°♄13'12	
					2488 Jul 29 04:01	0°♄	
superior conj	2487 Aug 21 12:45	29°♄02'46	1°45'16				
minimum elong	2487 Aug 21 12:29	29°♄01'28	1°45'16	superior conj	2488 Aug 04 13:24	13°♄30'27	1°40'31
	2487 Aug 22 00:03	0°♄		minimum elong	2488 Aug 04 11:54	13°♄22'36	1°40'25
max. Earth dist.	2487 Aug 26 14:40	9°♄06'46	1.36325 AU	max. Earth dist.	2488 Aug 08 04:44	21°♄02'10	1.34702 AU
evening rise	2487 Aug 30 13:40	16°♄34'40		evening rise	2488 Aug 12 16:54	29°♄58'19	
	2487 Sep 07 05:07	0°♄			2488 Aug 12 17:15	0°♄	
desc. node	2487 Sep 12 17:51	8°♄56'05		desc. node	2488 Aug 29 14:52	28°♄58'47	
	2487 Sep 27 18:16	0°♄			2488 Aug 30 07:11	0°♄	
evening max el	2487 Oct 05 06:52	8°♄21'22	26°02'53	evening max el	2488 Sep 16 19:20	21°♄57'09	26°54'58
retrograde	2487 Oct 17 19:57	15°♄28'33		retrograde	2488 Sep 29 22:55	29°♄13'12	
evening set	2487 Oct 24 01:25	12°♄53'38		evening set	2488 Oct 06 16:56	26°♄30'47	
min. Earth dist.	2487 Oct 28 07:19	8°♄20'29	0.66672 AU	min. Earth dist.	2488 Oct 10 15:56	22°♄34'06	0.65593 AU
inferior conj	2487 Oct 29 17:06	6°♄35'02	-1°02'03	inferior conj	2488 Oct 12 13:40	20°♄21'49	-2°01'07
minimum elong	2487 Oct 29 18:44	6°♄29'56	1°01'21	minimum elong	2488 Oct 12 16:57	20°♄12'19	1°59'49
asc. node	2487 Nov 01 17:32	3°♄02'56		morning rise	2488 Oct 18 17:41	14°♄42'42	
morning rise	2487 Nov 04 12:26	0°♄43'43		asc. node	2488 Oct 18 14:35	14°♄46'43	
	2487 Nov 06 03:40	30°♄		direct	2488 Oct 21 12:59	13°♄59'32	
direct	2487 Nov 07 16:02	29°♄46'52		morning max el	2488 Oct 28 02:02	17°♄32'20	18°16'36
	2487 Nov 09 05:04	0°♄			2488 Nov 06 07:31	0°♄	
morning max el	2487 Nov 14 12:36	3°♄35'33	18°54'52	morning set	2488 Nov 16 01:33	15°♄43'57	
	2487 Dec 03 01:46	0°♄			2488 Nov 24 21:40	0°♄	
morning set	2487 Dec 06 11:38	5°♄20'59		desc. node	2488 Nov 25 14:10	1°♄05'55	
desc. node	2487 Dec 09 17:09	10°♄25'03					
max. Earth dist.	2487 Dec 21 11:38	28°♄52'51	1.45026 AU	superior conj	2488 Dec 01 02:09	9°♄49'02	-0°36'28
	2487 Dec 22 04:43	0°♄		minimum elong	2488 Nov 30 21:28	9°♄30'33	0°35'51
superior conj	2487 Dec 23 00:11	1°♄16'40	-1°21'55	max. Earth dist.	2488 Dec 03 06:57	13°♄16'49	1.45137 AU
minimum elong	2487 Dec 22 15:18	0°♄41'42	1°20'58		2488 Dec 13 23:21	0°♄	
evening rise	2488 Jan 07 05:34	25°♄35'38		evening rise	2488 Dec 17 09:40	5°♄21'28	
	2488 Jan 09 22:41	0°♄		greatest brilliancy	2488 Dec 28 21:07	23°♄11'02	-0.7m
evening max el	2488 Jan 27 21:22	26°♄29'32	18°40'46		2489 Jan 02 10:42	0°♄	
asc. node	2488 Jan 28 16:49	27°♄16'53		evening max el	2489 Jan 10 05:38	9°♄58'46	19°23'47
	2488 Feb 02 02:52	0°♄		asc. node	2489 Jan 14 13:50	13°♄22'43	
retrograde	2488 Feb 03 12:50	0°♄11'09		retrograde	2489 Jan 17 09:19	14°♄05'33	
	2488 Feb 04 22:26	30°♄		evening set	2489 Jan 20 20:16	12°♄55'38	
evening set	2488 Feb 06 16:52	29°♄14'15		inferior conj	2489 Jan 26 08:50	7°♄02'08	3°14'03
inferior conj	2488 Feb 12 10:36	23°♄36'34	3°34'39	minimum elong	2489 Jan 26 06:31	7°♄09'39	3°13'36
minimum elong	2488 Feb 12 09:08	23°♄41'00	3°34'31	min. Earth dist.	2489 Jan 27 15:19	5°♄23'19	0.66351 AU
min. Earth dist.	2488 Feb 14 08:06	21°♄19'02	0.65062 AU	morning rise	2489 Jan 31 16:32	0°♄49'35	
morning rise	2488 Feb 18 00:58	17°♄26'38			2489 Feb 01 16:28	30°♄	
direct	2488 Feb 24 18:04	14°♄34'58		direct	2489 Feb 06 22:50	28°♄03'06	
desc. node	2488 Mar 06 16:18	20°♄06'22			2489 Feb 12 20:30	0°♄	

morning max el	2489 Feb 19 10:58	5°  28'20	26°00'43	min. Earth dist.	2490 Jan 11 05:18	19°  40'44	0.67233 AU
desc. node	2489 Feb 21 13:21	7°  41'01		morning rise	2490 Jan 15 16:31	14°  25'00	
	2489 Mar 10 08:13	0°  ✕		direct	2490 Jan 21 08:56	11°  53'28	
morning set	2489 Mar 27 16:03	29°  ✕04'58		morning max el	2490 Feb 01 19:36	18°  34'18	24°39'01
	2489 Mar 28 03:55	0°  Y		desc. node	2490 Feb 08 10:23	26°  31'523	
max. Earth dist.	2489 Mar 31 13:51	6°  Y28'29	1.35468 AU		2490 Feb 11 08:27	0°  ≈	
					2490 Mar 03 10:32	0°  ✕	
superior conj	2489 Apr 05 19:51	16°  Y52'48	-1°05'32	morning set	2490 Mar 09 20:37	10°  ✕57'24	
minimum elong	2489 Apr 05 23:11	17°  Y09'42	1°04'58	max. Earth dist.	2490 Mar 13 12:21	17°  ✕30'57	1.37371 AU
	2489 Apr 12 04:58	0°  8					
asc. node	2489 Apr 12 13:10	0°  842'18		superior conj	2490 Mar 20 04:41	0°  Y07'06	-1°31'29
evening rise	2489 Apr 13 16:30	3°  802'45		minimum elong	2490 Mar 20 08:59	0°  Y27'59	1°30'55
	2489 Apr 29 11:02	0°  II			2490 Mar 20 03:14	0°  Y	
evening max el	2489 May 01 22:02	2°  II38'51	20°20'19	evening rise	2490 Mar 28 18:04	17°  Y05'54	
retrograde	2489 May 12 16:47	7°  II53'02		asc. node	2490 Mar 30 10:11	20°  Y24'40	
evening set	2489 May 14 17:30	7°  II42'41			2490 Apr 04 11:37	0°  8	
desc. node	2489 May 20 12:31	5°  II36'44		evening max el	2490 Apr 14 14:26	14°  824'03	19°17'21
inferior conj	2489 May 23 20:33	3°  II44'26	-0°58'36	retrograde	2490 Apr 23 16:45	18°  848'30	
minimum elong	2489 May 23 17:47	3°  II48'29	0°57'34	evening set	2490 Apr 25 18:28	18°  835'46	
min. Earth dist.	2489 May 25 09:02	2°  II51'03	0.55117 AU	inferior conj	2490 May 04 04:15	14°  826'52	0°55'09
	2489 May 31 02:53	30°  R8		minimum elong	2490 May 04 06:28	14°  823'11	0°54'23
morning rise	2489 Jun 01 16:50	29°  829'37		min. Earth dist.	2490 May 06 23:50	12°  835'06	0.56214 AU
direct	2489 Jun 05 12:49	28°  857'53		desc. node	2490 May 07 09:33	12°  819'39	
	2489 Jun 10 19:23	0°  II		morning rise	2490 May 12 15:29	9°  838'07	
morning max el	2489 Jun 19 00:49	5°  II32'38	23°34'47	direct	2490 May 17 10:40	8°  845'10	
	2489 Jul 06 05:20	0°  ☿		morning max el	2490 May 31 15:13	15°  858'53	25°14'56
asc. node	2489 Jul 09 12:27	6°  ☿23'38			2490 Jun 11 22:37	0°  II	
morning set	2489 Jul 12 19:01	13°  ☿08'14		asc. node	2490 Jun 26 09:28	26°  II11'47	
				morning set	2490 Jun 27 06:45	28°  II03'36	
					2490 Jun 28 04:41	0°  ☿	
superior conj	2489 Jul 19 19:55	28°  ☿15'28	1°29'53				
minimum elong	2489 Jul 19 17:42	28°  ☿03'37	1°29'39				
	2489 Jul 20 15:23	0°  Ω		superior conj	2490 Jul 04 05:57	13°  ☿09'50	1°14'23
max. Earth dist.	2489 Jul 22 03:57	3°  Ω14'55	1.33470 AU	minimum elong	2490 Jul 04 03:33	12°  ☿56'46	1°14'02
evening rise	2489 Jul 27 08:32	13°  Ω58'05		max. Earth dist.	2490 Jul 05 10:38	15°  ☿46'25	1.32642 AU
	2489 Aug 04 20:58	0°  ♍		evening rise	2490 Jul 11 08:58	28°  ☿23'09	
desc. node	2489 Aug 16 11:51	18°  ♍33'20			2490 Jul 12 03:53	0°  Ω	
	2489 Aug 25 07:17	0°  ♎			2490 Jul 29 02:04	0°  ♍	
evening max el	2489 Aug 30 06:59	5°  ♎16'16	27°22'59	desc. node	2490 Aug 03 08:52	7°  ♍27'56	
retrograde	2489 Sep 12 19:59	12°  ♎34'10		evening max el	2490 Aug 12 15:41	18°  ♍05'54	27°21'08
evening set	2489 Sep 19 22:46	9°  ♎52'54		retrograde	2490 Aug 26 10:45	25°  ♍22'07	
min. Earth dist.	2489 Sep 23 15:50	6°  ♎31'10	0.64158 AU	evening set	2490 Sep 02 15:27	22°  ♍54'01	
inferior conj	2489 Sep 26 02:13	3°  ♎57'42	-2°59'37	min. Earth dist.	2490 Sep 06 05:37	20°  ♍00'47	0.62388 AU
minimum elong	2489 Sep 26 06:58	3°  ♎45'12	2°57'59	inferior conj	2490 Sep 09 03:52	17°  ♍16'02	-3°53'48
	2489 Sep 30 07:00	30°  R♍		minimum elong	2490 Sep 09 09:22	17°  ♍03'06	3°52'21
morning rise	2489 Oct 02 16:17	28°  ♍34'12		morning rise	2490 Sep 16 04:50	12°  ♍11'22	
direct	2489 Oct 05 05:43	28°  ♍01'08		direct	2490 Sep 18 14:59	11°  ♍45'11	
asc. node	2489 Oct 05 11:38	28°  ♍01'26		asc. node	2490 Sep 22 08:40	12°  ♍49'17	
	2489 Oct 10 03:10	0°  ♎		morning max el	2490 Sep 25 09:55	15°  ♍12'30	17°52'16
morning max el	2489 Oct 11 18:07	1°  ♎26'57	17°55'27		2490 Oct 05 16:09	0°  ♎	
morning set	2489 Oct 28 19:16	27°  ♎28'01		morning set	2490 Oct 11 10:55	10°  ♎14'53	
	2489 Oct 30 06:56	0°  ♍					
				superior conj	2490 Oct 22 13:48	29°  ♎46'25	0°51'39
superior conj	2489 Nov 10 18:53	19°  ♍08'47	0°11'24	minimum elong	2490 Oct 22 18:03	0°  ♍04'28	0°51'05
minimum elong	2489 Nov 10 20:10	19°  ♍14'02	0°11'13		2490 Oct 22 17:00	0°  ♍	
behind sun begin	2489 Nov 10 12:49	18°  ♍44'10		max. Earth dist.	2490 Oct 29 16:19	11°  ♍34'58	1.43230 AU
behind sun end	2489 Nov 11 03:32	19°  ♍43'51		desc. node	2490 Oct 30 08:12	12°  ♍39'24	
desc. node	2489 Nov 12 11:11	21°  ♍51'44		evening rise	2490 Nov 06 07:19	23°  ♍42'32	
max. Earth dist.	2489 Nov 16 01:34	27°  ♍37'13	1.44509 AU		2490 Nov 10 09:12	0°  ♎	
	2489 Nov 17 13:37	0°  ♎			2490 Dec 01 06:37	0°  ♎	
evening rise	2489 Nov 26 21:20	14°  ♎31'20		evening max el	2490 Dec 07 06:34	7°  ♎00'18	21°32'02
	2489 Dec 07 01:40	0°  ♎		retrograde	2490 Dec 16 04:41	12°  ♎18'43	
evening max el	2489 Dec 24 08:54	23°  ♎28'57	20°21'52	asc. node	2490 Dec 19 07:53	11°  ♎24'44	
retrograde	2490 Jan 01 07:17	28°  ♎09'04		evening set	2490 Dec 20 10:22	10°  ♎39'06	
asc. node	2490 Jan 01 10:52	28°  ♎08'56		inferior conj	2490 Dec 25 18:47	4°  ♎22'54	2°03'55
evening set	2490 Jan 05 02:42	26°  ♎44'57		minimum elong	2490 Dec 25 16:25	4°  ♎31'06	2°03'05
inferior conj	2490 Jan 10 12:18	20°  ♎38'25	2°43'05	min. Earth dist.	2490 Dec 25 23:50	4°  ♎05'27	0.67732 AU
minimum elong	2490 Jan 10 09:42	20°  ♎47'13	2°42'22		2490 Dec 29 03:17	30°  R♎	

morning rise	2490 Dec 30 22:18	28° ♄ 10'26		minimum elong	2491 Dec 10 00:40	18° ♄ 18'18	1°17'22
direct	2491 Jan 04 23:48	25° ♄ 59'26		min. Earth dist.	2491 Dec 09 20:26	18° ♄ 32'54	0.67873 AU
	2491 Jan 13 00:34	0° ☿		morning rise	2491 Dec 15 07:37	12° ♄ 02'55	
morning max el	2491 Jan 15 04:45	2° ☿ 03'23	23°10'28	direct	2491 Dec 19 18:27	10° ♄ 14'42	
desc. node	2491 Jan 26 07:25	15° ☿ 32'44		morning max el	2491 Dec 28 17:50	15° ♄ 30'12	21°44'23
	2491 Feb 05 09:20	0° ♁			2492 Jan 09 09:56	0° ☿	
morning set	2491 Feb 19 00:10	21° ♁ 34'49		desc. node	2492 Jan 13 04:28	5° ☿ 20'31	
max. Earth dist.	2491 Feb 23 07:03	28° ♁ 52'36	1.39510 AU		2492 Jan 29 10:27	0° ♁	
	2491 Feb 23 22:33	0° ♂		morning set	2492 Jan 29 22:36	0° ♁ 48'25	
				max. Earth dist.	2492 Feb 05 05:55	11° ♁ 03'58	1.41616 AU
superior conj	2491 Mar 02 22:55	12° ♂ 35'42	-1°52'28	superior conj	2492 Feb 12 21:33	24° ♁ 06'39	-2°04'29
minimum elong	2491 Mar 03 02:59	12° ♂ 54'32	1°52'08	minimum elong	2492 Feb 12 23:13	24° ♁ 13'57	2°04'27
evening rise	2491 Mar 12 11:07	0° ♂ 39'07			2492 Feb 16 05:24	0° ♂	
	2491 Mar 12 02:58	0° ♂		evening rise	2492 Feb 23 16:07	13° ♂ 33'58	
asc. node	2491 Mar 17 07:12	9° ♂ 48'16		asc. node	2492 Mar 03 04:14	28° ♂ 46'35	
evening max el	2491 Mar 28 16:40	26° ♂ 46'13	18°34'29		2492 Mar 03 22:03	0° ♂	
	2491 Apr 02 10:30	0° ♂		evening max el	2492 Mar 11 01:28	9° ♂ 36'40	18°11'36
retrograde	2491 Apr 05 10:33	0° ♂ 34'05		retrograde	2492 Mar 17 22:39	13° ♂ 04'35	
evening set	2491 Apr 07 18:13	0° ♂ 14'49		evening set	2492 Mar 20 12:27	12° ♂ 36'13	
	2491 Apr 08 13:05	30° ♂		inferior conj	2492 Mar 27 09:24	7° ♂ 48'00	3°13'53
inferior conj	2491 Apr 15 08:23	25° ♂ 47'34	2°21'12	minimum elong	2492 Mar 27 12:22	7° ♂ 41'16	3°13'23
minimum elong	2491 Apr 15 12:19	25° ♂ 39'55	2°20'07	min. Earth dist.	2492 Mar 30 17:48	4° ♂ 47'43	0.60117 AU
min. Earth dist.	2491 Apr 18 18:08	23° ♂ 10'09	0.57998 AU	morning rise	2492 Apr 03 10:04	2° ♂ 03'05	
morning rise	2491 Apr 23 03:19	20° ♂ 26'03		direct	2492 Apr 09 23:50	0° ♂ 00'51	
desc. node	2491 Apr 24 06:35	19° ♂ 56'06		desc. node	2492 Apr 10 03:37	0° ♂ 00'55	
direct	2491 Apr 28 23:03	19° ♂ 00'06		morning max el	2492 Apr 24 06:58	7° ♂ 51'31	27°32'50
morning max el	2491 May 13 08:10	26° ♂ 38'07	26°38'41		2492 May 11 02:11	0° ♂	
	2491 May 16 12:59	0° ♂		morning set	2492 May 26 00:40	27° ♂ 33'46	
	2491 Jun 05 06:33	0° ♂			2492 May 27 04:38	0° ♂	
morning set	2491 Jun 11 17:12	12° ♂ 54'02		asc. node	2492 May 30 03:32	6° ♂ 19'03	
asc. node	2491 Jun 13 06:29	16° ♂ 11'51		max. Earth dist.	2492 Jun 01 09:46	11° ♂ 14'53	1.32171 AU
superior conj	2491 Jun 18 17:36	28° ♂ 07'06	0°54'50	superior conj	2492 Jun 02 05:09	13° ♂ 01'20	0°31'54
minimum elong	2491 Jun 18 15:30	27° ♂ 55'33	0°54'26	minimum elong	2492 Jun 02 03:47	12° ♂ 53'45	0°31'36
max. Earth dist.	2491 Jun 18 21:45	28° ♂ 29'57	1.32213 AU	evening rise	2492 Jun 09 01:30	27° ♂ 55'33	
	2491 Jun 19 14:07	0° ☿			2492 Jun 10 01:07	0° ☿	
evening rise	2491 Jun 25 15:23	13° ☿ 04'51			2492 Jun 26 22:33	0° ♂	
	2491 Jul 04 06:16	0° ♂		evening max el	2492 Jul 06 15:39	11° ♂ 37'36	25°39'55
desc. node	2491 Jul 21 05:53	25° ♂ 25'52		desc. node	2492 Jul 07 02:53	12° ♂ 04'03	
	2491 Jul 25 12:56	0° ♂		retrograde	2492 Jul 20 15:45	18° ♂ 45'42	
evening max el	2491 Jul 25 19:08	0° ♂ 14'49	26°46'10	evening set	2492 Jul 26 15:16	17° ♂ 21'22	
retrograde	2491 Aug 08 17:59	7° ♂ 27'37		min. Earth dist.	2492 Jul 31 03:51	14° ♂ 42'14	0.58335 AU
evening set	2491 Aug 15 14:29	5° ♂ 26'22		inferior conj	2492 Aug 03 08:54	12° ♂ 24'53	-5°00'31
min. Earth dist.	2491 Aug 19 09:07	2° ♂ 48'50	0.60384 AU	minimum elong	2492 Aug 03 10:08	12° ♂ 22'41	5°00'28
inferior conj	2491 Aug 22 15:15	0° ♂ 08'10	-4°37'27	morning rise	2492 Aug 11 07:18	8° ♂ 04'21	
minimum elong	2491 Aug 22 19:53	29° ♂ 58'34	4°36'43	direct	2492 Aug 13 19:30	7° ♂ 44'23	
	2491 Aug 22 19:11	30° ♂		morning max el	2492 Aug 22 03:54	11° ♂ 42'16	18°44'21
morning rise	2491 Aug 30 03:13	25° ♂ 24'58		asc. node	2492 Aug 26 02:47	16° ♂ 15'30	
direct	2491 Sep 01 12:59	25° ♂ 02'56			2492 Sep 03 10:45	0° ♂	
morning max el	2491 Sep 08 22:14	28° ♂ 40'28	18°08'06	morning set	2492 Sep 07 13:10	7° ♂ 52'05	
asc. node	2491 Sep 09 05:43	28° ♂ 58'55					
	2491 Sep 10 04:47	0° ♂		superior conj	2492 Sep 16 04:17	24° ♂ 34'41	1°37'31
morning set	2491 Sep 24 18:26	23° ♂ 47'03		minimum elong	2492 Sep 16 06:49	24° ♂ 46'35	1°37'21
	2491 Sep 28 02:03	0° ♂			2492 Sep 19 02:01	0° ♂	
superior conj	2491 Oct 04 10:35	11° ♂ 39'31	1°20'19	max. Earth dist.	2492 Sep 23 07:03	7° ♂ 35'42	1.39447 AU
minimum elong	2491 Oct 04 14:42	11° ♂ 57'57	1°19'54	evening rise	2492 Sep 27 07:22	14° ♂ 32'38	
max. Earth dist.	2491 Oct 12 01:45	24° ♂ 55'54	1.41467 AU	desc. node	2492 Oct 03 02:15	24° ♂ 05'28	
	2491 Oct 15 02:53	0° ♂			2492 Oct 06 20:14	0° ♂	
evening rise	2491 Oct 17 07:47	3° ♂ 35'28			2492 Oct 28 15:21	0° ♄	
desc. node	2491 Oct 17 05:13	3° ♂ 25'07		evening max el	2492 Nov 01 12:44	4° ♄ 10'49	24°09'52
	2491 Nov 03 17:33	0° ♄		retrograde	2492 Nov 12 15:22	10° ♄ 41'48	
evening max el	2491 Nov 19 23:16	20° ♄ 33'43	22°49'59	evening set	2492 Nov 17 22:46	8° ♄ 28'54	
retrograde	2491 Nov 29 23:48	26° ♄ 30'40		asc. node	2492 Nov 22 02:00	3° ♄ 49'43	
evening set	2491 Dec 04 17:34	24° ♄ 34'33		min. Earth dist.	2492 Nov 22 16:42	3° ♄ 00'37	0.67676 AU
asc. node	2491 Dec 06 04:56	23° ♄ 10'19		inferior conj	2492 Nov 23 09:14	2° ♄ 04'51	0°26'44
inferior conj	2491 Dec 10 02:21	18° ♄ 12'26	1°18'03	minimum elong	2492 Nov 23 08:36	2° ♄ 07'01	0°26'28

	2492 Nov 24 22:56	30° \mathbb{M}		asc. node	2493 Nov 08 23:04	14° \mathbb{M} 11'42	
morning rise	2492 Nov 28 18:27	26° \mathbb{M} 00'34		morning rise	2493 Nov 13 04:48	10° \mathbb{M} 01'11	
direct	2492 Dec 02 15:44	24° \mathbb{M} 34'30		direct	2493 Nov 16 14:14	8° \mathbb{M} 54'46	
morning max el	2492 Dec 10 14:01	29° \mathbb{M} 07'51	20°27'38	morning max el	2493 Nov 23 18:10	12° \mathbb{M} 56'31	19°24'21
	2492 Dec 11 10:11	0° \mathbb{A}			2493 Dec 06 12:58	0° \mathbb{A}	
desc. node	2492 Dec 30 01:31	25° \mathbb{A} 30'14		greatest brilliancy	2493 Dec 07 06:06	1° \mathbb{A} 04'28	-0.7m
	2493 Jan 02 00:56	0° \mathbb{B}		desc. node	2493 Dec 16 22:33	15° \mathbb{A} 55'48	
morning set	2493 Jan 07 22:19	9° \mathbb{B} 02'22		morning set	2493 Dec 17 21:21	17° \mathbb{A} 24'06	
max. Earth dist.	2493 Jan 17 12:57	24° \mathbb{B} 12'41	1.43398 AU		2493 Dec 25 23:35	0° \mathbb{B}	
	2493 Jan 21 02:28	0° \approx		max. Earth dist.	2493 Dec 31 02:55	8° \mathbb{B} 04'54	1.44621 AU
superior conj	2493 Jan 23 19:34	4° \approx 28'35	-2°02'33	superior conj	2494 Jan 03 15:39	13° \mathbb{B} 41'23	-1°42'12
minimum elong	2493 Jan 23 16:14	4° \approx 14'42	2°02'26	minimum elong	2494 Jan 03 07:21	13° \mathbb{B} 08'16	1°41'30
evening rise	2493 Feb 05 04:57	25° \approx 41'59			2494 Jan 13 17:00	0° \approx	
	2493 Feb 07 15:48	0° \mathbb{H}		evening rise	2494 Jan 17 21:20	6° \approx 55'57	
asc. node	2493 Feb 18 01:17	17° \mathbb{H} 11'21			2494 Feb 01 04:07	0° \mathbb{H}	
evening max el	2493 Feb 22 13:34	22° \mathbb{H} 46'02	18°08'13	asc. node	2494 Feb 04 22:21	4° \mathbb{H} 52'38	
retrograde	2493 Mar 01 01:19	26° \mathbb{H} 09'28		evening max el	2494 Feb 06 02:03	6° \mathbb{H} 07'11	18°23'40
evening set	2493 Mar 03 20:31	25° \mathbb{H} 30'41		retrograde	2494 Feb 12 13:55	9° \mathbb{H} 39'15	
inferior conj	2493 Mar 10 04:04	20° \mathbb{H} 21'48	3°38'05	evening set	2494 Feb 15 14:28	8° \mathbb{H} 49'17	
minimum elong	2493 Mar 10 05:08	20° \mathbb{H} 19'02	3°38'02	inferior conj	2494 Feb 21 12:18	3° \mathbb{H} 21'25	3°40'42
min. Earth dist.	2493 Mar 13 01:26	17° \mathbb{H} 23'35	0.62240 AU	minimum elong	2494 Feb 21 11:37	3° \mathbb{H} 23'24	3°40'41
morning rise	2493 Mar 16 12:28	14° \mathbb{H} 22'27		min. Earth dist.	2494 Feb 23 18:44	0° \mathbb{H} 45'06	0.64126 AU
direct	2493 Mar 23 10:17	11° \mathbb{H} 50'44			2494 Feb 24 11:07	30° \mathbb{R} \approx	
desc. node	2493 Mar 28 00:41	12° \mathbb{H} 50'30		morning rise	2494 Feb 27 08:06	27° \approx 13'56	
morning max el	2493 Apr 06 11:51	19° \mathbb{H} 46'43	27°50'19	direct	2494 Mar 06 04:52	24° \approx 25'30	
	2493 Apr 15 05:25	0° \mathbb{Y}		desc. node	2494 Mar 14 21:43	27° \approx 57'52	
	2493 May 04 00:08	0° \mathbb{B}			2494 Mar 17 09:42	0° \mathbb{H}	
morning set	2493 May 10 03:00	11° \mathbb{B} 55'06		morning max el	2494 Mar 19 20:45	2° \mathbb{H} 19'26	27°31'07
max. Earth dist.	2493 May 15 18:40	23° \mathbb{B} 46'34	1.32529 AU		2494 Apr 09 11:42	0° \mathbb{Y}	
asc. node	2493 May 17 00:35	26° \mathbb{B} 28'12		morning set	2494 Apr 23 21:44	25° \mathbb{Y} 50'25	
superior conj	2493 May 17 14:49	27° \mathbb{B} 45'31	0°06'16		2494 Apr 25 23:43	0° \mathbb{B}	
minimum elong	2493 May 17 14:31	27° \mathbb{B} 43'54	0°06'12	max. Earth dist.	2494 Apr 28 20:27	5° \mathbb{B} 52'50	1.33311 AU
behind sun begin	2493 May 17 09:44	27° \mathbb{B} 17'53		superior conj	2494 May 01 20:46	12° \mathbb{B} 14'07	-0°21'16
behind sun end	2493 May 17 19:18	28° \mathbb{B} 09'55		minimum elong	2494 May 01 21:50	12° \mathbb{B} 19'47	0°21'03
	2493 May 18 15:31	0° \mathbb{I}		asc. node	2494 May 03 21:38	16° \mathbb{B} 35'35	
evening rise	2493 May 24 13:14	12° \mathbb{I} 47'10		evening rise	2494 May 09 00:46	27° \mathbb{B} 33'43	
	2493 Jun 02 06:14	0° \mathbb{E}			2494 May 10 04:42	0° \mathbb{I}	
evening max el	2493 Jun 18 06:07	22° \mathbb{E} 19'40	24°11'14		2494 May 28 05:22	0° \mathbb{E}	
desc. node	2493 Jun 23 23:55	26° \mathbb{E} 50'05		evening max el	2494 May 30 20:31	2° \mathbb{E} 47'01	22°34'47
retrograde	2493 Jul 02 01:48	29° \mathbb{E} 17'34		desc. node	2494 Jun 10 20:56	9° \mathbb{E} 08'18	
evening set	2493 Jul 06 16:31	28° \mathbb{E} 30'18		retrograde	2494 Jun 12 23:47	9° \mathbb{E} 18'35	
min. Earth dist.	2493 Jul 12 16:50	25° \mathbb{E} 32'28	0.56516 AU	evening set	2494 Jun 16 03:18	8° \mathbb{E} 56'47	
inferior conj	2493 Jul 15 06:20	23° \mathbb{E} 56'45	-4°49'00	min. Earth dist.	2494 Jun 24 04:09	5° \mathbb{E} 26'38	0.55270 AU
minimum elong	2493 Jul 15 02:05	24° \mathbb{E} 03'25	4°48'32	inferior conj	2494 Jun 25 09:23	4° \mathbb{E} 45'01	-3°50'23
morning rise	2493 Jul 23 14:18	19° \mathbb{E} 56'15		minimum elong	2494 Jun 25 01:23	4° \mathbb{E} 56'24	3°48'24
direct	2493 Jul 26 06:57	19° \mathbb{E} 37'06		morning rise	2494 Jul 04 01:41	0° \mathbb{E} 53'37	
morning max el	2493 Aug 04 23:53	24° \mathbb{E} 07'30	19°42'06	direct	2494 Jul 07 00:21	0° \mathbb{E} 33'45	
	2493 Aug 10 01:20	0° \mathbb{O}		morning max el	2494 Jul 18 08:29	5° \mathbb{E} 49'40	21°00'43
asc. node	2493 Aug 12 23:51	4° \mathbb{O} 23'40		asc. node	2494 Jul 30 20:53	23° \mathbb{E} 11'15	
morning set	2493 Aug 22 15:35	22° \mathbb{O} 19'35			2494 Aug 03 11:27	0° \mathbb{O}	
	2493 Aug 26 10:32	0° \mathbb{P}		morning set	2494 Aug 06 23:04	7° \mathbb{O} 02'18	
superior conj	2493 Aug 30 13:24	8° \mathbb{P} 15'52	1°44'50	superior conj	2494 Aug 14 09:25	22° \mathbb{O} 29'59	1°44'03
minimum elong	2493 Aug 30 14:04	8° \mathbb{P} 19'13	1°44'49	minimum elong	2494 Aug 14 08:34	22° \mathbb{O} 25'38	1°44'01
max. Earth dist.	2493 Sep 05 11:30	19° \mathbb{P} 40'13	1.37412 AU		2494 Aug 18 02:12	0° \mathbb{P}	
evening rise	2493 Sep 09 06:08	26° \mathbb{P} 34'24		max. Earth dist.	2494 Aug 18 20:30	1° \mathbb{P} 30'46	1.35590 AU
	2493 Sep 11 04:37	0° \mathbb{U}		evening rise	2494 Aug 23 00:18	9° \mathbb{P} 31'44	
desc. node	2493 Sep 19 23:16	14° \mathbb{U} 35'43			2494 Sep 03 18:28	0° \mathbb{U}	
	2493 Sep 30 08:05	0° \mathbb{M}		desc. node	2494 Sep 06 20:17	4° \mathbb{U} 50'28	
evening max el	2493 Oct 15 00:49	17° \mathbb{M} 50'44	25°24'51		2494 Sep 26 00:58	0° \mathbb{M}	
retrograde	2493 Oct 27 02:35	24° \mathbb{M} 47'43		evening max el	2494 Sep 27 12:54	1° \mathbb{M} 29'38	26°27'27
evening set	2493 Nov 02 00:14	22° \mathbb{M} 19'34		retrograde	2494 Oct 10 08:53	8° \mathbb{M} 42'17	
min. Earth dist.	2493 Nov 06 10:17	17° \mathbb{M} 26'08	0.67137 AU	evening set	2494 Oct 16 20:03	6° \mathbb{M} 02'59	
inferior conj	2493 Nov 07 13:40	15° \mathbb{M} 57'45	-0°28'45	min. Earth dist.	2494 Oct 20 22:49	1° \mathbb{M} 45'35	0.66255 AU
minimum elong	2493 Nov 07 14:24	15° \mathbb{M} 55'23	0°28'26		2494 Oct 22 09:41	30° \mathbb{R} \mathbb{U}	

inferior conj	2494 Oct 22 13:42	29° Ω 47'50	-1°27'02	minimum elong	2495 Oct 06 11:09	13° Ω 20'13	2°24'42
minimum elong	2494 Oct 22 16:02	29° Ω 40'45	1°26'04	morning rise	2495 Oct 12 15:21	7° Ω 58'18	
asc. node	2494 Oct 26 20:07	25° Ω 12'38		asc. node	2495 Oct 13 17:08	7° Ω 33'50	
morning rise	2494 Oct 28 12:34	24° Ω 01'35		direct	2495 Oct 15 07:44	7° Ω 19'59	
direct	2494 Oct 31 12:16	23° Ω 11'11		morning max el	2495 Oct 21 19:51	10° Ω 49'11	18°05'25
morning max el	2494 Nov 07 04:54	26° Ω 52'03	18°36'33		2495 Nov 04 02:05	0° \mathbb{M}	
	2494 Nov 09 23:19	0° \mathbb{M}		morning set	2495 Nov 08 20:36	7° \mathbb{M} 55'00	
morning set	2494 Nov 27 18:14	26° \mathbb{M} 55'25		desc. node	2495 Nov 20 16:36	27° \mathbb{M} 15'29	
	2494 Nov 29 16:40	0° \mathbb{X}			2495 Nov 22 09:45	0° \mathbb{X}	
desc. node	2494 Dec 03 19:34	6° \mathbb{X} 31'59					
superior conj	2494 Dec 13 18:38	22° \mathbb{X} 12'36	-1°03'44	superior conj	2495 Nov 23 00:44	0° \mathbb{X} 59'40	-0°15'46
minimum elong	2494 Dec 13 10:52	21° \mathbb{X} 42'08	1°02'48	minimum elong	2495 Nov 22 22:45	0° \mathbb{X} 51'48	0°15'30
max. Earth dist.	2494 Dec 13 20:43	22° \mathbb{X} 20'47	1.45156 AU	behind sun begin	2495 Nov 22 19:34	0° \mathbb{X} 39'07	
	2494 Dec 18 17:39	0° \mathbb{Z}		behind sun end	2495 Nov 23 01:56	1° \mathbb{X} 04'28	
evening rise	2494 Dec 29 14:21	17° \mathbb{Z} 11'33		max. Earth dist.	2495 Nov 26 15:36	6° \mathbb{X} 43'38	1.44957 AU
	2495 Jan 06 15:20	0° \approx		evening rise	2495 Dec 09 10:06	26° \mathbb{X} 38'18	
greatest brilliancy	2495 Jan 07 02:02	0° \approx 42'15	-0.8m		2495 Dec 11 14:18	0° \mathbb{Z}	
evening max el	2495 Jan 20 12:23	19° \approx 33'53	18°57'05	greatest brilliancy	2495 Dec 22 18:47	17° \mathbb{Z} 04'49	-0.7m
asc. node	2495 Jan 22 19:24	21° \approx 37'01			2496 Jan 01 01:46	0° \approx	
retrograde	2495 Jan 27 08:23	23° \approx 25'31		evening max el	2496 Jan 03 18:41	3° \approx 03'34	19°46'50
evening set	2495 Jan 30 15:06	22° \approx 23'23		asc. node	2496 Jan 09 16:25	7° \approx 10'25	
inferior conj	2495 Feb 05 06:19	16° \approx 38'39	3°27'22	retrograde	2496 Jan 11 05:42	7° \approx 23'41	
minimum elong	2495 Feb 05 04:25	16° \approx 44'36	3°27'06	evening set	2496 Jan 14 19:59	6° \approx 08'04	
min. Earth dist.	2495 Feb 06 21:19	14° \approx 36'44	0.65653 AU	inferior conj	2496 Jan 20 07:04	0° \approx 08'53	3°02'02
morning rise	2495 Feb 10 17:23	10° \approx 27'04		minimum elong	2496 Jan 20 04:34	0° \approx 17'11	3°01'26
direct	2495 Feb 17 06:19	7° \approx 36'01			2496 Jan 20 09:45	30° \mathbb{R} \mathbb{Z}	
desc. node	2495 Mar 01 18:45	14° \approx 46'54		min. Earth dist.	2496 Jan 21 07:43	28° \mathbb{Z} 47'11	0.66778 AU
morning max el	2495 Mar 02 06:39	15° \approx 16'32	26°40'35	morning rise	2496 Jan 25 12:55	23° \mathbb{Z} 55'41	
	2495 Mar 14 09:02	0° \mathbb{H}		direct	2496 Jan 31 13:40	21° \mathbb{Z} 14'15	
	2495 Apr 02 06:18	0° \mathbb{Y}		morning max el	2496 Feb 12 15:34	28° \mathbb{Z} 26'21	25°27'20
morning set	2495 Apr 07 05:25	9° \mathbb{Y} 08'44			2496 Feb 14 03:30	0° \approx	
max. Earth dist.	2495 Apr 11 11:24	17° \mathbb{Y} 24'40	1.34545 AU	desc. node	2496 Feb 16 15:48	2° \approx 48'59	
					2496 Mar 07 03:23	0° \mathbb{H}	
superior conj	2495 Apr 15 20:47	26° \mathbb{Y} 20'07	-0°49'32	morning set	2496 Mar 19 21:29	21° \mathbb{H} 36'48	
minimum elong	2495 Apr 15 23:19	26° \mathbb{Y} 33'15	0°49'03	max. Earth dist.	2496 Mar 23 14:37	28° \mathbb{H} 29'04	1.36230 AU
	2495 Apr 17 15:04	0° \mathbb{B}			2496 Mar 24 09:49	0° \mathbb{Y}	
asc. node	2495 Apr 20 18:40	6° \mathbb{B} 36'40		superior conj	2496 Mar 29 12:08	9° \mathbb{Y} 55'56	-1°16'58
evening rise	2495 Apr 23 10:08	12° \mathbb{B} 08'20		minimum elong	2496 Mar 29 15:58	10° \mathbb{Y} 15'02	1°16'21
	2495 May 02 17:25	0° \mathbb{I}		evening rise	2496 Apr 06 15:14	26° \mathbb{Y} 24'46	
evening max el	2495 May 12 18:40	13° \mathbb{I} 32'22	21°05'08	asc. node	2496 Apr 06 15:42	26° \mathbb{Y} 27'09	
retrograde	2495 May 24 13:22	19° \mathbb{I} 17'22			2496 Apr 08 10:00	0° \mathbb{B}	
evening set	2495 May 26 18:27	19° \mathbb{I} 05'56		evening max el	2496 Apr 24 04:31	24° \mathbb{B} 54'47	19°51'14
desc. node	2495 May 28 17:56	18° \mathbb{I} 37'33		retrograde	2496 May 04 05:24	29° \mathbb{B} 46'09	
inferior conj	2495 Jun 05 03:10	15° \mathbb{I} 07'40	-2°07'47	evening set	2496 May 06 05:31	29° \mathbb{B} 35'24	
minimum elong	2495 Jun 04 21:15	15° \mathbb{I} 16'01	2°05'44	desc. node	2496 May 14 14:58	25° \mathbb{B} 51'27	
min. Earth dist.	2495 Jun 05 16:18	14° \mathbb{I} 49'07	0.54888 AU	inferior conj	2496 May 15 02:03	25° \mathbb{B} 34'29	-0°08'06
morning rise	2495 Jun 14 00:06	11° \mathbb{I} 06'30		minimum elong	2496 May 15 01:41	25° \mathbb{B} 35'02	0°07'57
direct	2495 Jun 17 09:51	10° \mathbb{I} 41'24		transit middle	2496 May 15 01:41	25° \mathbb{B} 35'02	0°07'57
morning max el	2495 Jun 30 06:23	16° \mathbb{I} 49'23	22°35'57	transit begin	2496 May 14 22:15	25° \mathbb{B} 40'18	
	2495 Jul 10 16:45	0° \mathbb{E}		transit end	2496 May 15 05:08	25° \mathbb{B} 29'46	
asc. node	2495 Jul 17 17:55	12° \mathbb{E} 28'30		min. Earth dist.	2496 May 17 05:53	24° \mathbb{B} 15'14	0.55479 AU
morning set	2495 Jul 22 09:34	21° \mathbb{E} 54'25		morning rise	2496 May 23 19:38	21° \mathbb{B} 06'00	
	2495 Jul 26 05:01	0° \mathbb{Q}		direct	2496 May 28 01:04	20° \mathbb{B} 26'33	
				morning max el	2496 Jun 10 21:34	27° \mathbb{B} 19'54	24°18'20
superior conj	2495 Jul 29 12:53	7° \mathbb{Q} 06'26	1°36'40		2496 Jun 13 12:13	0° \mathbb{I}	
minimum elong	2495 Jul 29 11:02	6° \mathbb{Q} 56'33	1°36'31		2496 Jul 02 13:50	0° \mathbb{E}	
max. Earth dist.	2495 Aug 01 14:13	13° \mathbb{Q} 31'30	1.34125 AU	asc. node	2496 Jul 03 14:56	2° \mathbb{E} 07'15	
evening rise	2495 Aug 06 09:19	23° \mathbb{Q} 12'36		morning set	2496 Jul 05 21:19	6° \mathbb{E} 50'01	
	2495 Aug 09 22:29	0° \mathbb{P}					
desc. node	2495 Aug 24 17:17	24° \mathbb{P} 42'39		superior conj	2496 Jul 12 21:09	21° \mathbb{E} 56'11	1°23'52
	2495 Aug 28 09:55	0° \mathbb{L}		minimum elong	2496 Jul 12 18:48	21° \mathbb{E} 43'29	1°23'34
evening max el	2495 Sep 10 01:09	15° \mathbb{L} 00'03	27°10'13	max. Earth dist.	2496 Jul 14 16:56	25° \mathbb{E} 52'40	1.33070 AU
retrograde	2495 Sep 23 09:40	22° \mathbb{L} 18'21			2496 Jul 16 15:19	0° \mathbb{Q}	
evening set	2495 Sep 30 07:52	19° \mathbb{L} 35'10		evening rise	2496 Jul 20 05:06	7° \mathbb{Q} 24'35	
min. Earth dist.	2495 Oct 04 04:07	15° \mathbb{L} 53'36	0.65021 AU		2496 Aug 01 10:17	0° \mathbb{P}	
inferior conj	2495 Oct 06 07:12	13° \mathbb{L} 31'14	-2°26'10	desc. node	2496 Aug 10 14:17	14° \mathbb{P} 01'56	


































































































































evening max el	2496 Aug 22 12:04	28° \mathbb{M} 09'07	27°26'12	evening max el	2497 Aug 04 19:02	10° \mathbb{M} 43'11	27°10'18
	2496 Aug 24 13:24	0° \mathbb{L}		retrograde	2497 Aug 18 15:31	17° \mathbb{M} 56'59	
retrograde	2496 Sep 05 04:08	5° \mathbb{L} 26'12		evening set	2497 Aug 25 18:20	15° \mathbb{M} 38'49	
evening set	2496 Sep 12 08:36	2° \mathbb{L} 49'19		min. Earth dist.	2497 Aug 29 09:17	12° \mathbb{M} 54'12	0.61567 AU
	2496 Sep 15 15:57	30° \mathbb{R} \mathbb{M}		inferior conj	2497 Sep 01 11:34	10° \mathbb{M} 09'18	-4°14'04
min. Earth dist.	2496 Sep 16 00:01	29° \mathbb{M} 40'29	0.63442 AU	minimum elong	2497 Sep 01 16:58	9° \mathbb{M} 57'16	4°12'52
inferior conj	2496 Sep 18 15:32	27° \mathbb{M} 00'59	-3°23'24	morning rise	2497 Sep 08 17:13	5° \mathbb{M} 13'17	
minimum elong	2496 Sep 18 20:44	26° \mathbb{M} 47'54	3°21'48	direct	2497 Sep 11 03:01	4° \mathbb{M} 49'00	
morning rise	2496 Sep 25 10:07	21° \mathbb{M} 44'44		asc. node	2497 Sep 16 11:12	6° \mathbb{M} 52'52	
direct	2496 Sep 27 21:50	21° \mathbb{M} 14'55		morning max el	2497 Sep 18 02:47	8° \mathbb{M} 19'12	17°56'32
asc. node	2496 Sep 29 14:10	21° \mathbb{M} 28'48			2497 Oct 02 04:31	0° \mathbb{L}	
morning max el	2496 Oct 04 12:07	24° \mathbb{M} 40'33	17°51'46	morning set	2497 Oct 03 23:33	3° \mathbb{L} 16'23	
	2496 Oct 08 20:31	0° \mathbb{L}					
morning set	2496 Oct 21 00:30	20° \mathbb{L} 08'29		superior conj	2497 Oct 14 10:21	22° \mathbb{L} 01'24	1°05'17
	2496 Oct 26 17:18	0° \mathbb{M}		minimum elong	2497 Oct 14 14:49	22° \mathbb{L} 20'50	1°04'44
					2497 Oct 19 02:18	0° \mathbb{M}	
superior conj	2496 Nov 02 04:00	10° \mathbb{M} 50'44	0°29'45	max. Earth dist.	2497 Oct 21 22:09	4° \mathbb{M} 42'16	1.42537 AU
minimum elong	2496 Nov 02 07:00	11° \mathbb{M} 03'08	0°29'20	desc. node	2497 Oct 24 10:38	8° \mathbb{M} 49'14	
desc. node	2496 Nov 06 13:37	18° \mathbb{M} 02'21		evening rise	2497 Oct 28 09:29	15° \mathbb{M} 08'20	
max. Earth dist.	2496 Nov 08 08:58	20° \mathbb{M} 56'43	1.44046 AU		2497 Nov 07 01:57	0° \mathbb{L}	
	2496 Nov 14 02:23	0° \mathbb{L}		evening max el	2497 Nov 29 15:08	0° \mathbb{L} 06'29	22°04'31
evening rise	2496 Nov 17 18:59	5° \mathbb{L} 43'44			2497 Nov 29 12:36	0° \mathbb{L}	
	2496 Dec 03 23:59	0° \mathbb{L}		retrograde	2497 Dec 09 00:06	5° \mathbb{L} 41'08	
evening max el	2496 Dec 16 19:42	16° \mathbb{L} 34'37	20°50'29	evening set	2497 Dec 13 10:50	3° \mathbb{L} 54'21	
retrograde	2496 Dec 25 03:32	21° \mathbb{L} 30'04		asc. node	2497 Dec 13 10:28	3° \mathbb{L} 55'06	
asc. node	2496 Dec 26 13:25	21° \mathbb{L} 19'00			2497 Dec 17 00:42	30° \mathbb{R} \mathbb{L}	
evening set	2496 Dec 29 03:09	19° \mathbb{L} 59'30		inferior conj	2497 Dec 18 19:15	27° \mathbb{L} 35'07	1°45'10
inferior conj	2497 Jan 03 12:04	13° \mathbb{L} 48'40	2°27'22	minimum elong	2497 Dec 18 17:06	27° \mathbb{L} 42'31	1°44'23
minimum elong	2497 Jan 03 09:31	13° \mathbb{L} 57'26	2°26'34	min. Earth dist.	2497 Dec 18 19:27	27° \mathbb{L} 34'24	0.67840 AU
min. Earth dist.	2497 Jan 03 23:51	13° \mathbb{L} 08'16	0.67499 AU	morning rise	2497 Dec 23 23:15	21° \mathbb{L} 23'56	
morning rise	2497 Jan 08 15:42	7° \mathbb{L} 35'38		direct	2497 Dec 28 18:25	19° \mathbb{L} 22'44	
direct	2497 Jan 14 01:56	5° \mathbb{L} 12'14		morning max el	2498 Jan 07 10:24	25° \mathbb{L} 05'18	22°33'05
morning max el	2497 Jan 24 23:55	11° \mathbb{L} 42'41	24°01'32		2498 Jan 11 20:19	0° \mathbb{L}	
desc. node	2497 Feb 02 12:52	21° \mathbb{L} 43'12		desc. node	2498 Jan 20 09:54	11° \mathbb{L} 14'21	
	2497 Feb 08 15:07	0° \mathbb{L}			2498 Feb 02 03:12	0° \mathbb{L}	
	2497 Feb 27 22:18	0° \mathbb{L}		morning set	2498 Feb 10 07:25	12° \mathbb{L} 59'53	
morning set	2497 Mar 01 16:08	2° \mathbb{L} 58'49		max. Earth dist.	2498 Feb 15 06:55	21° \mathbb{L} 18'07	1.40431 AU
max. Earth dist.	2497 Mar 05 10:37	9° \mathbb{L} 35'34	1.38267 AU		2498 Feb 20 07:18	0° \mathbb{L}	
superior conj	2497 Mar 12 15:22	22° \mathbb{L} 52'25	-1°41'12	superior conj	2498 Feb 23 01:53	4° \mathbb{L} 57'31	-1°58'56
minimum elong	2497 Mar 12 19:46	23° \mathbb{L} 13'24	1°40'42	minimum elong	2498 Feb 23 05:15	5° \mathbb{L} 12'47	1°58'45
	2497 Mar 16 08:04	0° \mathbb{Y}		evening rise	2498 Mar 05 02:00	23° \mathbb{L} 34'03	
evening rise	2497 Mar 21 13:34	10° \mathbb{Y} 16'11			2498 Mar 08 12:18	0° \mathbb{Y}	
asc. node	2497 Mar 24 12:44	16° \mathbb{Y} 02'17		asc. node	2498 Mar 11 09:47	5° \mathbb{Y} 15'46	
	2497 Apr 01 12:09	0° \mathbb{L}		evening max el	2498 Mar 21 06:51	19° \mathbb{Y} 31'04	18°22'16
evening max el	2497 Apr 07 01:30	6° \mathbb{L} 56'42	18°56'42	retrograde	2498 Mar 28 14:36	23° \mathbb{Y} 08'49	
retrograde	2497 Apr 15 12:26	11° \mathbb{L} 03'29		evening set	2498 Mar 31 00:53	22° \mathbb{Y} 45'56	
evening set	2497 Apr 17 16:41	10° \mathbb{L} 48'14		inferior conj	2498 Apr 07 07:14	18° \mathbb{Y} 09'31	2°47'27
inferior conj	2497 Apr 25 18:00	6° \mathbb{L} 31'55	1°35'44	minimum elong	2498 Apr 07 10:59	18° \mathbb{Y} 01'44	2°46'36
minimum elong	2497 Apr 25 21:22	6° \mathbb{L} 25'56	1°34'39	min. Earth dist.	2498 Apr 10 17:48	15° \mathbb{Y} 19'28	0.58875 AU
min. Earth dist.	2497 Apr 28 21:41	4° \mathbb{L} 18'46	0.56906 AU	morning rise	2498 Apr 14 18:20	12° \mathbb{Y} 36'39	
desc. node	2497 May 01 12:00	2° \mathbb{L} 41'06		desc. node	2498 Apr 18 09:04	11° \mathbb{Y} 12'54	
morning rise	2497 May 03 22:57	1° \mathbb{L} 28'51		direct	2498 Apr 20 22:36	10° \mathbb{Y} 55'24	
direct	2497 May 09 05:03	0° \mathbb{L} 23'05		morning max el	2498 May 05 07:44	18° \mathbb{Y} 39'46	27°06'05
morning max el	2497 May 23 12:19	7° \mathbb{L} 47'56	25°53'31		2498 May 14 20:33	0° \mathbb{L}	
	2497 Jun 09 00:22	0° \mathbb{L}			2498 Jun 01 13:50	0° \mathbb{L}	
morning set	2497 Jun 20 08:45	21° \mathbb{L} 44'11		morning set	2498 Jun 04 18:09	6° \mathbb{L} 30'25	
asc. node	2497 Jun 20 11:59	22° \mathbb{L} 01'18		asc. node	2498 Jun 07 09:03	12° \mathbb{L} 04'35	
	2497 Jun 24 04:54	0° \mathbb{L}					
				superior conj	2498 Jun 11 19:54	21° \mathbb{L} 48'28	0°45'29
superior conj	2497 Jun 27 08:06	6° \mathbb{L} 52'30	1°06'34	minimum elong	2498 Jun 11 18:04	21° \mathbb{L} 38'19	0°45'07
minimum elong	2497 Jun 27 05:47	6° \mathbb{L} 39'45	1°06'10	max. Earth dist.	2498 Jun 11 14:15	21° \mathbb{L} 17'21	1.32146 AU
max. Earth dist.	2497 Jun 28 02:12	8° \mathbb{L} 31'52	1.32416 AU		2498 Jun 15 13:28	0° \mathbb{L}	
evening rise	2497 Jul 04 08:26	21° \mathbb{L} 57'59		evening rise	2498 Jun 18 16:39	6° \mathbb{L} 43'35	
	2497 Jul 08 07:52	0° \mathbb{L}			2498 Jun 30 21:41	0° \mathbb{L}	
	2497 Jul 26 11:42	0° \mathbb{M}		desc. node	2498 Jul 15 08:19	20° \mathbb{L} 01'39	
desc. node	2497 Jul 28 11:18	2° \mathbb{M} 34'43		evening max el	2498 Jul 17 19:25	22° \mathbb{L} 31'23	26°21'23

retrograde	2498 Jul 31 18:55	29°Ω42'43		retrograde	2499 Jul 13 12:22	10°Ω39'27	
evening set	2498 Aug 07 08:25	27°Ω55'56		evening set	2499 Jul 18 22:53	9°Ω31'36	
min. Earth dist.	2498 Aug 11 08:27	25°Ω20'20	0.59507 AU	min. Earth dist.	2499 Jul 24 00:21	6°Ω46'14	0.57503 AU
inferior conj	2498 Aug 14 15:46	22°Ω46'54	-4°50'31	inferior conj	2499 Jul 27 00:52	4°Ω44'22	-5°00'48
minimum elong	2498 Aug 14 19:19	22°Ω40'01	4°50'07	minimum elong	2499 Jul 26 23:53	4°Ω46'02	5°00'46
morning rise	2498 Aug 22 08:20	18°Ω13'43		morning rise	2499 Aug 04 03:29	0°Ω33'17	
direct	2498 Aug 24 18:54	17°Ω52'45		direct	2499 Aug 06 17:10	0°Ω13'58	
morning max el	2498 Sep 01 12:43	21°Ω37'09	18°21'00	morning max el	2499 Aug 15 14:38	4°Ω24'21	19°06'22
asc. node	2498 Sep 03 08:16	23°Ω32'35		asc. node	2499 Aug 21 05:21	11°Ω12'21	
	2498 Sep 08 00:26	0°♊			2499 Aug 31 18:45	0°♊	
morning set	2498 Sep 17 12:20	17°♊03'39		morning set	2499 Sep 01 10:41	1°♊18'40	
	2498 Sep 24 07:56	0°♊					
superior conj	2498 Sep 26 16:47	4°♊23'11	1°28'57	superior conj	2499 Sep 09 17:38	17°♊39'27	1°41'43
minimum elong	2498 Sep 26 20:18	4°♊39'21	1°28'37	minimum elong	2499 Sep 09 19:22	17°♊47'46	1°41'38
max. Earth dist.	2498 Oct 04 05:34	17°♊45'46	1.40623 AU	max. Earth dist.	2499 Sep 16 07:58	0°♊	
evening rise	2498 Oct 08 19:16	25°♊26'54		evening rise	2499 Sep 16 09:22	0°♊06'22	1.38560 AU
desc. node	2498 Oct 11 07:39	29°♊32'59		desc. node	2499 Sep 20 04:59	6°♊52'05	
	2498 Oct 11 14:21	0°♋			2499 Sep 28 04:39	20°♊09'23	
	2498 Oct 31 20:51	0°♋			2499 Oct 04 13:38	0°♋	
evening max el	2498 Nov 12 06:04	13°♋40'48	23°24'02	evening max el	2499 Oct 25 18:37	27°♋18'55	24°42'49
retrograde	2498 Nov 22 17:58	19°♋53'36		retrograde	2499 Oct 28 17:18	0°♋	
evening set	2498 Nov 27 17:26	17°♋50'04		evening set	2499 Nov 06 07:56	4°♋02'51	
asc. node	2498 Nov 30 07:31	15°♋08'28			2499 Nov 11 21:15	1°♋43'16	
min. Earth dist.	2498 Dec 02 16:13	12°♋02'28	0.67828 AU	min. Earth dist.	2499 Nov 13 15:23	30°♋♌	
inferior conj	2498 Dec 03 02:45	11°♋26'22	0°56'52	inferior conj	2499 Nov 16 11:44	26°♋29'23	0.67484 AU
minimum elong	2498 Dec 03 01:27	11°♋30'48	0°56'21	minimum elong	2499 Nov 17 08:49	25°♋19'22	0°03'38
morning rise	2498 Dec 08 09:26	5°♋18'50		transit middle	2499 Nov 17 08:43	25°♋19'40	0°03'37
direct	2498 Dec 12 14:13	3°♋40'29		transit begin	2499 Nov 17 06:02	25°♋28'36	
morning max el	2498 Dec 21 02:25	8°♋37'16	21°10'19	transit end	2499 Nov 17 11:24	25°♋10'45	
	2499 Jan 06 11:12	0°♋		asc. node	2499 Nov 17 04:35	25°♋33'26	
desc. node	2499 Jan 07 06:57	1°♋12'18		morning rise	2499 Nov 22 20:17	19°♋17'49	
morning set	2499 Jan 20 18:33	21°♋43'04		direct	2499 Nov 26 12:14	18°♋00'33	
	2499 Jan 25 23:24	0°♌		morning max el	2499 Dec 04 01:59	22°♋19'34	19°58'49
max. Earth dist.	2499 Jan 28 09:03	3°♌54'17	1.42428 AU		2499 Dec 10 11:28	0°♌	
				desc. node	2499 Dec 25 03:57	21°♌29'01	
superior conj	2499 Feb 04 14:34	15°♌59'55	-2°05'40	morning set	2499 Dec 30 14:34	29°♌50'03	
minimum elong	2499 Feb 04 14:22	15°♌59'06	2°05'41		2499 Dec 30 17:09	0°♌	
	2499 Feb 12 14:21	0°♍		max. Earth dist.	2500 Jan 10 18:40	17°♌20'58	1.43998 AU
evening rise	2499 Feb 16 00:43	6°♍10'15					
asc. node	2499 Feb 26 06:50	24°♍00'55		superior conj	2500 Jan 16 01:15	25°♌51'04	-1°56'19
	2499 Mar 02 11:41	0°♎		minimum elong	2500 Jan 15 19:29	25°♌27'35	1°55'59
evening max el	2499 Mar 04 17:24	2°♎30'08	18°07'44		2500 Jan 18 14:01	0°♎	
retrograde	2499 Mar 11 09:29	5°♎54'41		evening rise	2500 Jan 29 05:16	17°♎55'21	
evening set	2499 Mar 14 01:29	5°♎22'09			2500 Feb 05 06:54	0°♎	
inferior conj	2499 Mar 20 16:17	0°♎25'07	3°27'11	asc. node	2500 Feb 13 03:53	12°♎08'25	
minimum elong	2499 Mar 20 18:28	0°♎19'51	3°26'55	evening max el	2500 Feb 16 06:01	15°♎45'18	18°12'34
	2499 Mar 21 02:42	30°♏♏		retrograde	2500 Feb 22 16:44	19°♎10'44	
min. Earth dist.	2499 Mar 23 20:51	27°♎22'32	0.61037 AU	evening set	2500 Feb 25 14:09	18°♎27'22	
morning rise	2499 Mar 27 09:36	24°♎32'43		inferior conj	2500 Mar 03 17:12	13°♎10'29	3°41'25
direct	2499 Apr 03 03:53	22°♎16'28		minimum elong	2500 Mar 03 17:28	13°♎09'46	3°41'25
desc. node	2499 Apr 05 06:08	22°♎28'47		min. Earth dist.	2500 Mar 06 08:35	10°♎19'17	0.63086 AU
	2499 Apr 17 04:55	0°♎		morning rise	2500 Mar 09 19:46	7°♎07'08	
morning max el	2499 Apr 17 09:26	0°♎11'08	27°44'52	direct	2500 Mar 16 18:18	4°♎26'09	
	2499 May 08 21:19	0°♏		desc. node	2500 Mar 23 03:10	6°♎20'55	
morning set	2499 May 19 23:42	21°♏02'40		morning max el	2500 Mar 30 16:11	12°♎22'44	27°46'17
	2499 May 24 05:35	0°♐			2500 Apr 13 17:00	0°♎	
asc. node	2499 May 25 06:07	2°♐12'40			2500 May 01 07:31	0°♏	
max. Earth dist.	2499 May 26 01:16	3°♐56'47	1.32268 AU	morning set	2500 May 03 23:09	5°♏13'56	
				max. Earth dist.	2500 May 09 07:23	16°♏17'52	1.32803 AU
superior conj	2499 May 27 06:51	6°♐38'29	0°21'18				
minimum elong	2499 May 27 05:54	6°♐33'13	0°21'05	superior conj	2500 May 11 15:12	21°♏17'00	-0°05'16
evening rise	2499 Jun 03 03:39	21°♐34'31		minimum elong	2500 May 11 15:27	21°♏18'22	0°05'13
	2499 Jun 07 05:36	0°♑		behind sun begin	2500 May 11 10:28	20°♏51'27	
	2499 Jun 26 03:25	0°♑		behind sun end	2500 May 11 20:26	21°♏45'18	
evening max el	2499 Jun 29 12:42	3°♑33'29	25°04'09	asc. node	2500 May 12 03:10	22°♏21'39	
desc. node	2499 Jul 02 05:21	5°♑55'48			2500 May 15 15:46	0°♐	

evening rise	2500 May 18 15:31	6° Π 24'41			2501 May 07 11:00	0° Π	
	2500 May 31 03:35	0° \mathfrak{D}		evening max el	2501 May 23 19:23	24° Π 37'49	21°55'10
evening max el	2500 Jun 11 02:25	14° \mathfrak{D} 06'12	23°30'20		2501 May 31 18:27	0° \mathfrak{D}	
desc. node	2500 Jun 19 02:23	19° \mathfrak{D} 43'23		retrograde	2501 Jun 05 10:10	0° \mathfrak{D} 50'56	
retrograde	2500 Jun 24 17:17	20° \mathfrak{D} 55'06		desc. node	2501 Jun 05 23:25	0° \mathfrak{D} 50'14	
evening set	2500 Jun 28 16:06	20° \mathfrak{D} 20'54		evening set	2501 Jun 08 02:13	0° \mathfrak{D} 35'01	
min. Earth dist.	2500 Jul 05 12:34	17° \mathfrak{D} 10'43	0.55890 AU		2501 Jun 10 06:39	30° \mathfrak{R} Π	
inferior conj	2500 Jul 07 13:57	15° \mathfrak{D} 57'13	-4°30'19	inferior conj	2501 Jun 17 11:29	26° Π 31'02	-3°11'08
minimum elong	2500 Jul 07 07:35	16° \mathfrak{D} 06'45	4°29'14	minimum elong	2501 Jun 17 03:37	26° Π 42'02	3°08'47
morning rise	2500 Jul 16 01:36	12° \mathfrak{D} 02'02		min. Earth dist.	2501 Jun 16 23:48	26° Π 47'22	0.54994 AU
direct	2500 Jul 18 20:28	11° \mathfrak{D} 42'50		morning rise	2501 Jun 26 06:27	22° Π 38'08	
morning max el	2500 Jul 29 05:51	16° \mathfrak{D} 31'52	20°13'09	direct	2501 Jun 29 09:15	22° Π 16'39	
asc. node	2500 Aug 08 02:23	29° \mathfrak{D} 38'44		morning max el	2501 Jul 11 09:26	27° Π 54'15	21°39'38
	2500 Aug 08 07:23	0° Ω			2501 Jul 13 11:33	0° \mathfrak{D}	
morning set	2500 Aug 16 15:33	15° Ω 53'32		asc. node	2501 Jul 25 23:25	18° \mathfrak{D} 39'46	
	2500 Aug 23 12:52	0° \mathfrak{M}			2501 Jul 31 16:42	0° Ω	
				morning set	2501 Aug 01 00:32	0° Ω 40'42	
superior conj	2500 Aug 24 07:52	1° \mathfrak{M} 36'00	1°45'23	superior conj	2501 Aug 08 07:23	16° Ω 00'09	1°41'38
minimum elong	2500 Aug 24 07:51	1° \mathfrak{M} 35'54	1°45'23	minimum elong	2501 Aug 08 06:03	15° Ω 53'08	1°41'34
max. Earth dist.	2500 Aug 29 15:07	12° \mathfrak{M} 01'56	1.36600 AU	max. Earth dist.	2501 Aug 12 03:50	23° Ω 55'27	1.34922 AU
evening rise	2500 Sep 02 12:38	19° \mathfrak{M} 19'27			2501 Aug 15 05:18	0° \mathfrak{M}	
	2500 Sep 08 14:06	0° \mathfrak{L}		evening rise	2501 Aug 16 13:38	2° \mathfrak{M} 36'16	
desc. node	2500 Sep 15 01:41	10° \mathfrak{L} 33'55		desc. node	2501 Sep 01 22:43	0° \mathfrak{L} 39'56	
	2500 Sep 28 16:00	0° \mathfrak{M}			2501 Sep 01 12:13	0° \mathfrak{L}	
evening max el	2500 Oct 08 06:48	10° \mathfrak{M} 59'54	25°53'29	evening max el	2501 Sep 20 19:11	24° \mathfrak{L} 36'35	26°48'31
retrograde	2500 Oct 20 17:04	18° \mathfrak{M} 04'28			2501 Sep 27 17:05	0° \mathfrak{M}	
evening set	2500 Oct 26 20:32	15° \mathfrak{M} 31'15		retrograde	2501 Oct 03 20:51	1° \mathfrak{M} 51'50	
min. Earth dist.	2500 Oct 31 03:33	10° \mathfrak{M} 52'47	0.66808 AU		2501 Oct 09 10:31	30° \mathfrak{R} \mathfrak{L}	
inferior conj	2500 Nov 01 11:37	9° \mathfrak{M} 11'45	-0°53'12	evening set	2501 Oct 10 13:14	29° \mathfrak{L} 09'56	
minimum elong	2500 Nov 01 13:01	9° \mathfrak{M} 07'21	0°52'36	min. Earth dist.	2501 Oct 14 13:11	25° \mathfrak{L} 08'00	0.65777 AU
asc. node	2500 Nov 04 01:36	6° \mathfrak{M} 05'39		inferior conj	2501 Oct 16 09:08	22° \mathfrak{L} 59'19	-1°52'07
morning rise	2500 Nov 07 05:49	3° \mathfrak{M} 18'55		minimum elong	2501 Oct 16 12:10	22° \mathfrak{L} 50'25	1°50'54
direct	2500 Nov 10 10:53	2° \mathfrak{M} 19'38		asc. node	2501 Oct 21 22:37	17° \mathfrak{L} 37'02	
morning max el	2500 Nov 17 09:03	6° \mathfrak{M} 11'13	19°01'56	morning rise	2501 Oct 22 11:47	17° \mathfrak{L} 18'20	
	2500 Dec 04 08:35	0° \mathfrak{X}		direct	2501 Oct 25 08:11	16° \mathfrak{L} 33'24	
morning set	2500 Dec 09 20:53	8° \mathfrak{X} 35'55		morning max el	2501 Oct 31 21:53	20° \mathfrak{L} 07'51	18°21'16
desc. node	2500 Dec 12 00:57	11° \mathfrak{X} 59'24			2501 Nov 08 11:37	0° \mathfrak{M}	
	2500 Dec 23 12:55	0° \mathfrak{Z}		morning set	2501 Nov 20 06:24	18° \mathfrak{M} 45'52	
max. Earth dist.	2500 Dec 24 10:37	1° \mathfrak{Z} 25'21	1.44948 AU		2501 Nov 27 06:02	0° \mathfrak{X}	
				desc. node	2501 Nov 28 21:59	2° \mathfrak{X} 39'16	
superior conj	2500 Dec 26 12:11	4° \mathfrak{Z} 40'43	-1°27'46	superior conj	2501 Dec 05 13:45	13° \mathfrak{X} 11'04	-0°43'48
minimum elong	2500 Dec 26 03:13	4° \mathfrak{Z} 05'19	1°26'51	minimum elong	2501 Dec 05 08:08	12° \mathfrak{X} 48'59	0°43'04
evening rise	2501 Jan 10 11:47	28° \mathfrak{Z} 43'50		max. Earth dist.	2501 Dec 07 05:55	15° \mathfrak{X} 48'55	1.45166 AU
	2501 Jan 11 06:26	0° \mathfrak{X}			2501 Dec 16 07:09	0° \mathfrak{Z}	
evening max el	2501 Jan 30 17:54	29° \mathfrak{X} 09'28	18°35'49	evening rise	2501 Dec 21 19:11	8° \mathfrak{Z} 37'28	
asc. node	2501 Jan 31 00:55	29° \mathfrak{X} 27'01		greatest brilliancy	2502 Jan 01 13:10	25° \mathfrak{Z} 25'13	-0.8m
	2501 Jan 31 14:47	0° \mathfrak{X}			2502 Jan 04 13:28	0° \mathfrak{X}	
retrograde	2501 Feb 06 08:08	2° \mathfrak{X} 48'12		evening max el	2502 Jan 14 02:45	12° \mathfrak{X} 38'10	19°16'19
evening set	2501 Feb 09 11:16	1° \mathfrak{X} 53'02		asc. node	2502 Jan 17 21:55	15° \mathfrak{X} 43'30	
	2501 Feb 11 21:32	30° \mathfrak{R} \mathfrak{X}		retrograde	2502 Jan 21 04:13	16° \mathfrak{X} 40'47	
inferior conj	2501 Feb 15 05:58	26° \mathfrak{X} 17'47	3°36'42	evening set	2502 Jan 24 14:02	15° \mathfrak{X} 32'53	
minimum elong	2501 Feb 15 04:41	26° \mathfrak{X} 21'36	3°36'35	inferior conj	2502 Jan 30 03:12	9° \mathfrak{X} 41'28	3°17'54
min. Earth dist.	2501 Feb 17 05:45	23° \mathfrak{X} 55'11	0.64832 AU	minimum elong	2502 Jan 30 00:58	9° \mathfrak{X} 48'37	3°17'29
morning rise	2501 Feb 20 21:38	20° \mathfrak{X} 08'29		min. Earth dist.	2502 Jan 31 11:49	7° \mathfrak{X} 56'36	0.66183 AU
direct	2501 Feb 27 15:53	17° \mathfrak{X} 17'17		morning rise	2502 Feb 04 11:40	3° \mathfrak{X} 29'02	
desc. node	2501 Mar 10 00:11	22° \mathfrak{X} 15'16		direct	2502 Feb 10 19:45	0° \mathfrak{X} 41'10	
morning max el	2501 Mar 13 01:34	25° \mathfrak{X} 06'17	27°12'56	morning max el	2502 Feb 23 11:20	8° \mathfrak{X} 10'48	26°11'41
	2501 Mar 17 12:51	0° \mathfrak{X}		desc. node	2502 Feb 24 21:12	9° \mathfrak{X} 38'45	
	2501 Apr 07 04:03	0° \mathfrak{Y}			2502 Mar 12 12:50	0° \mathfrak{X}	
morning set	2501 Apr 17 13:35	18° \mathfrak{Y} 54'26		morning set	2502 Mar 30 14:47	0° \mathfrak{Y}	
max. Earth dist.	2501 Apr 22 04:50	28° \mathfrak{Y} 09'35	1.33782 AU	max. Earth dist.	2502 Mar 31 15:15	1° \mathfrak{Y} 53'17	
	2501 Apr 23 02:20	0° \mathfrak{Z}			2502 Apr 04 15:06	9° \mathfrak{Y} 29'59	1.35217 AU
superior conj	2501 Apr 25 18:53	5° \mathfrak{Z} 36'47	-0°33'15	superior conj	2502 Apr 09 15:36	19° \mathfrak{Y} 31'03	-1°01'24
minimum elong	2501 Apr 25 20:35	5° \mathfrak{Z} 45'41	0°32'54	minimum elong	2502 Apr 09 18:44	19° \mathfrak{Y} 47'03	1°00'49
asc. node	2501 Apr 29 00:11	12° \mathfrak{Z} 26'46					
evening rise	2501 May 03 02:21	21° \mathfrak{Z} 06'56					

	2502 Apr 14 17:27	0°♄		superior conj	2503 Mar 24 02:15	2°♄51'03	-1°27'48
asc. node	2502 Apr 15 21:14	2°♄24'08		minimum elong	2503 Mar 24 06:28	3°♄11'39	1°27'13
evening rise	2502 Apr 17 10:13	5°♄35'05		evening rise	2503 Apr 01 12:47	19°♄41'44	
	2502 May 01 02:58	0°♄		asc. node	2503 Apr 02 18:16	22°♄08'41	
evening max el	2502 May 05 22:11	5°♄37'00	20°31'21		2503 Apr 06 19:44	0°♄	
retrograde	2502 May 16 23:20	10°♄59'25		evening max el	2503 Apr 18 12:56	17°♄16'12	19°25'30
evening set	2502 May 19 00:40	10°♄49'01		retrograde	2503 Apr 27 20:58	21°♄47'16	
desc. node	2502 May 23 20:25	9°♄13'14		evening set	2503 Apr 29 21:59	21°♄35'14	
inferior conj	2502 May 28 05:35	6°♄51'08	-1°16'54	inferior conj	2503 May 08 10:42	17°♄28'48	0°39'21
minimum elong	2502 May 28 01:56	6°♄56'24	1°15'34	minimum elong	2503 May 08 12:20	17°♄26'08	0°38'46
min. Earth dist.	2502 May 29 12:11	6°♄06'50	0.55027 AU	desc. node	2503 May 10 17:26	15°♄59'53	
morning rise	2502 Jun 06 02:19	2°♄40'23		min. Earth dist.	2503 May 11 02:48	15°♄45'02	0.55996 AU
direct	2502 Jun 09 19:18	2°♄10'46		morning rise	2503 May 16 23:49	12°♄45'14	
morning max el	2502 Jun 23 03:51	8°♄38'49	23°19'29	direct	2503 May 21 15:19	11°♄56'09	
	2502 Jul 08 13:57	0°♄		morning max el	2503 Jun 04 18:17	19°♄05'23	25°00'44
asc. node	2502 Jul 12 20:27	8°♄06'52			2503 Jun 13 22:12	0°♄	
morning set	2502 Jul 16 11:46	15°♄34'45		asc. node	2503 Jun 29 17:31	27°♄52'56	
	2502 Jul 23 05:12	0°♄		morning set	2503 Jun 30 23:35	0°♄30'30	
					2503 Jun 30 17:49	0°♄	
superior conj	2502 Jul 23 13:11	0°♄42'50	1°31'50	superior conj	2503 Jul 07 22:51	15°♄36'29	1°17'02
minimum elong	2502 Jul 23 11:03	0°♄31'25	1°31'37	minimum elong	2503 Jul 07 20:28	15°♄23'26	1°16'41
max. Earth dist.	2502 Jul 26 01:36	6°♄04'21	1.33625 AU	max. Earth dist.	2503 Jul 09 07:18	18°♄33'10	1.32736 AU
evening rise	2502 Jul 31 03:39	16°♄30'57			2503 Jul 14 16:40	0°♄	
	2502 Aug 07 06:35	0°♄		evening rise	2503 Jul 15 03:00	0°♄53'09	
desc. node	2502 Aug 19 19:44	20°♄19'19			2503 Jul 31 05:54	0°♄	
	2502 Aug 27 00:53	0°♄		desc. node	2503 Aug 06 16:45	9°♄21'03	
evening max el	2502 Sep 03 06:57	7°♄58'24	27°20'35	evening max el	2503 Aug 16 16:19	20°♄53'44	27°23'33
retrograde	2502 Sep 16 18:55	15°♄16'49		retrograde	2503 Aug 30 10:50	28°♄10'30	
evening set	2502 Sep 23 20:44	12°♄34'33		evening set	2503 Sep 06 15:42	25°♄39'42	
min. Earth dist.	2502 Sep 27 14:30	9°♄07'56	0.64390 AU	min. Earth dist.	2503 Sep 10 05:59	22°♄42'43	0.62667 AU
inferior conj	2502 Sep 29 23:03	6°♄36'59	-2°50'57	inferior conj	2503 Sep 13 02:35	19°♄58'49	-3°46'09
minimum elong	2502 Sep 30 03:36	6°♄24'47	2°49'21	minimum elong	2503 Sep 13 08:03	19°♄45'43	3°44'38
morning rise	2502 Oct 06 11:33	1°♄11'02		morning rise	2503 Sep 20 01:53	14°♄51'03	
asc. node	2502 Oct 08 19:39	0°♄37'05		direct	2503 Sep 22 12:19	14°♄24'04	
direct	2502 Oct 09 01:38	0°♄36'46		asc. node	2503 Sep 25 16:43	15°♄11'29	
morning max el	2502 Oct 15 13:48	4°♄03'14	17°57'31	morning max el	2503 Sep 29 05:52	17°♄50'49	17°51'32
morning set	2502 Nov 01 20:20	0°♄18'42			2503 Oct 07 23:09	0°♄	
	2502 Nov 01 15:55	0°♄		morning set	2503 Oct 15 09:10	12°♄57'36	
					2503 Oct 25 02:51	0°♄	
superior conj	2502 Nov 15 03:18	22°♄21'09	0°04'28	superior conj	2503 Oct 26 18:08	2°♄46'40	0°46'15
minimum elong	2502 Nov 15 03:49	22°♄23'14	0°04'24	minimum elong	2503 Oct 26 22:10	3°♄03'40	0°45'42
behind sun begin	2502 Nov 14 17:51	21°♄43'00		max. Earth dist.	2503 Nov 02 15:56	14°♄11'34	1.43458 AU
behind sun end	2502 Nov 15 13:47	23°♄03'23		desc. node	2503 Nov 02 16:03	14°♄12'06	
desc. node	2502 Nov 15 19:01	23°♄24'28		evening rise	2503 Nov 10 17:42	26°♄58'51	
	2502 Nov 19 22:05	0°♄			2503 Nov 12 16:35	0°♄	
max. Earth dist.	2502 Nov 20 00:38	0°♄10'08	1.44644 AU	evening max el	2503 Dec 03 05:32	0°♄	
evening rise	2502 Dec 01 08:32	17°♄50'31			2503 Dec 11 05:23	9°♄39'27	21°20'58
	2502 Dec 09 07:31	0°♄		retrograde	2503 Dec 19 23:45	14°♄51'51	
greatest brilliancy	2502 Dec 15 17:25	9°♄35'20	-0.6m	asc. node	2503 Dec 22 15:59	14°♄12'20	
evening max el	2502 Dec 28 06:49	26°♄08'07	20°12'20	evening set	2503 Dec 24 03:46	13°♄14'43	
	2503 Jan 02 05:16	0°♄		inferior conj	2503 Dec 29 12:16	6°♄59'51	2°10'18
asc. node	2503 Jan 04 18:57	0°♄42'33		minimum elong	2503 Dec 29 09:50	7°♄08'15	2°09'29
retrograde	2503 Jan 05 02:09	0°♄43'03		min. Earth dist.	2503 Dec 29 19:03	6°♄36'23	0.67686 AU
	2503 Jan 07 19:35	30°♄		morning rise	2504 Jan 03 15:44	0°♄47'07	
evening set	2503 Jan 08 20:09	29°♄21'13			2504 Jan 04 15:20	30°♄	
inferior conj	2503 Jan 14 06:04	23°♄16'26	2°48'20	direct	2504 Jan 08 19:32	28°♄32'43	
minimum elong	2503 Jan 14 03:28	23°♄25'10	2°47'39		2504 Jan 13 10:34	0°♄	
min. Earth dist.	2503 Jan 15 01:00	22°♄12'30	0.67128 AU	morning max el	2504 Jan 19 04:54	4°♄43'42	23°23'37
morning rise	2503 Jan 19 10:36	17°♄02'55		desc. node	2504 Jan 29 15:18	17°♄16'51	
direct	2503 Jan 25 05:12	14°♄28'35			2504 Feb 07 14:55	0°♄	
morning max el	2503 Feb 05 20:05	21°♄24'51	24°51'48	morning set	2504 Feb 23 06:42	24°♄44'58	
desc. node	2503 Feb 11 18:14	28°♄05'14			2504 Feb 26 08:30	0°♄	
	2503 Feb 13 07:04	0°♄		max. Earth dist.	2504 Feb 27 09:11	1°♄47'15	1.39189 AU
morning set	2503 Mar 05 18:49	0°♄					
	2503 Mar 13 23:01	13°♄55'34		superior conj	2504 Mar 05 23:00	15°♄27'21	-1°49'46
max. Earth dist.	2503 Mar 17 14:33	20°♄31'18	1.37067 AU				
	2503 Mar 22 15:03	0°♄					

minimum elong	2504 Mar 06 03:13	15° H 47'02	1°49'24	superior conj	2505 Feb 16 00:58	27° \approx 08'09	-2°03'27
	2504 Mar 13 14:03	0° Y		minimum elong	2505 Feb 16 03:10	27° \approx 17'54	2°03'23
evening rise	2504 Mar 15 07:21	3° Y 19'51			2505 Feb 17 15:41	0° H	
asc. node	2504 Mar 19 15:19	11° Y 35'25		evening rise	2505 Feb 26 14:28	16° H 21'27	
evening max el	2504 Mar 31 13:58	29° Y 33'32	18°39'35		2505 Mar 06 03:24	0° Y	
	2504 Apr 01 01:11	0° B		asc. node	2505 Mar 06 12:22	0° Y 38'13	
retrograde	2504 Apr 08 11:50	3° B 25'36		evening max el	2505 Mar 14 22:03	12° Y 20'42	18°13'43
evening set	2504 Apr 10 18:37	3° B 07'27		retrograde	2505 Mar 21 21:31	15° Y 50'35	
	2504 Apr 16 18:09	30° R Y		evening set	2505 Mar 24 10:29	15° Y 23'38	
inferior conj	2504 Apr 18 11:38	28° Y 43'14	2°10'18	inferior conj	2505 Mar 31 09:44	10° Y 38'23	3°07'50
minimum elong	2504 Apr 18 15:31	28° Y 35'51	2°09'12	minimum elong	2505 Mar 31 12:57	10° Y 31'15	3°07'15
min. Earth dist.	2504 Apr 21 20:25	26° Y 11'21	0.57701 AU	min. Earth dist.	2505 Apr 03 19:01	7° Y 40'04	0.59795 AU
morning rise	2504 Apr 26 09:16	23° Y 26'17		morning rise	2505 Apr 07 13:05	4° Y 56'21	
desc. node	2504 Apr 26 14:29	23° Y 20'20		desc. node	2505 Apr 13 11:32	3° Y 00'21	
direct	2504 May 02 01:44	22° Y 05'40		direct	2505 Apr 14 00:43	2° Y 59'31	
morning max el	2504 May 16 10:30	29° Y 40'41	26°27'53	morning max el	2505 Apr 28 08:24	10° Y 48'26	27°27'02
	2504 May 16 18:23	0° B			2505 May 13 06:17	0° B	
	2504 Jun 06 16:12	0° II		morning set	2505 May 29 18:22	0° II 03'36	
morning set	2504 Jun 14 10:21	15° II 21'57			2505 May 29 17:41	0° II	
asc. node	2504 Jun 15 14:35	17° II 51'34		asc. node	2505 Jun 02 11:39	7° II 57'56	
superior conj	2504 Jun 21 10:23	0° B 33'42	0°58'03	superior conj	2505 Jun 05 22:04	15° II 28'31	0°35'35
minimum elong	2504 Jun 21 08:13	0° B 21'45	0°57'39	minimum elong	2505 Jun 05 20:33	15° II 20'12	0°35'15
	2504 Jun 21 04:16	0° B		max. Earth dist.	2505 Jun 05 06:16	14° II 01'38	1.32155 AU
max. Earth dist.	2504 Jun 21 18:03	1° B 15'53	1.32249 AU	evening rise	2505 Jun 12 18:24	0° B 22'41	
evening rise	2504 Jun 28 08:42	15° B 33'00			2505 Jun 12 14:08	0° B	
	2504 Jul 05 15:44	0° O			2505 Jun 28 22:54	0° O	
desc. node	2504 Jul 23 13:47	27° O 28'56		desc. node	2505 Jul 10 10:48	14° O 20'37	
	2504 Jul 25 18:37	0° P		evening max el	2505 Jul 10 18:23	14° O 38'51	25°51'28
evening max el	2504 Jul 28 20:52	3° P 09'51	26°53'34	retrograde	2505 Jul 24 18:15	21° O 47'36	
retrograde	2504 Aug 11 19:14	10° P 22'46		evening set	2505 Jul 30 21:57	20° O 17'18	
evening set	2504 Aug 18 17:42	8° P 16'51		min. Earth dist.	2505 Aug 04 06:44	17° O 39'43	0.58637 AU
min. Earth dist.	2504 Aug 22 11:03	5° P 37'57	0.60694 AU	inferior conj	2505 Aug 07 12:47	15° O 17'41	-4°58'55
inferior conj	2504 Aug 25 16:22	2° P 55'40	-4°31'56	minimum elong	2505 Aug 07 14:43	15° O 14'10	4°58'49
minimum elong	2504 Aug 25 21:17	2° P 45'17	4°31'04	morning rise	2505 Aug 15 09:42	10° O 53'53	
	2504 Aug 29 10:32	30° R O		direct	2505 Aug 17 21:30	10° O 33'39	
morning rise	2504 Sep 02 02:42	28° O 08'56		morning max el	2505 Aug 26 01:41	14° O 27'30	18°37'37
direct	2504 Sep 04 12:22	27° O 46'23		asc. node	2505 Aug 29 10:51	18° O 16'35	
	2504 Sep 10 05:26	0° P			2505 Sep 05 19:56	0° P	
asc. node	2504 Sep 11 13:47	1° P 09'35		morning set	2505 Sep 11 07:56	10° P 24'24	
morning max el	2504 Sep 11 18:54	1° P 21'49	18°04'26	superior conj	2505 Sep 20 02:14	27° P 15'35	1°35'35
morning set	2504 Sep 27 14:40	26° P 23'59		minimum elong	2505 Sep 20 05:02	27° P 28'42	1°35'23
	2504 Sep 29 13:03	0° A			2505 Sep 21 13:31	0° A	
superior conj	2504 Oct 07 11:19	14° A 29'01	1°16'45	max. Earth dist.	2505 Sep 27 08:17	10° A 25'29	1.39756 AU
minimum elong	2504 Oct 07 15:35	14° A 47'58	1°16'16	evening rise	2505 Oct 01 11:08	17° A 30'04	
max. Earth dist.	2504 Oct 15 02:26	27° A 39'27	1.41758 AU	desc. node	2505 Oct 06 10:06	25° A 39'18	
	2504 Oct 16 12:12	0° M			2505 Oct 09 03:48	0° M	
desc. node	2504 Oct 19 13:05	4° M 58'12			2505 Oct 30 10:10	0° A	
evening rise	2504 Oct 20 15:15	6° M 43'35		evening max el	2505 Nov 05 12:34	6° A 48'37	23°58'07
	2504 Nov 04 22:02	0° A		retrograde	2505 Nov 16 11:23	13° A 15'02	
evening max el	2504 Nov 22 22:50	23° A 12'36	22°38'07	evening set	2505 Nov 21 16:45	11° A 04'27	
retrograde	2504 Dec 02 19:15	29° A 03'39		asc. node	2505 Nov 25 10:05	6° A 57'11	
evening set	2504 Dec 07 11:10	27° A 09'59		min. Earth dist.	2505 Nov 26 11:53	5° A 31'13	0.67726 AU
asc. node	2504 Dec 08 13:02	26° A 10'40		inferior conj	2505 Nov 27 02:53	4° A 40'23	0°34'49
inferior conj	2504 Dec 12 19:49	20° A 48'35	1°25'23	minimum elong	2505 Nov 27 02:04	4° A 43'10	0°34'29
minimum elong	2504 Dec 12 17:59	20° A 54'55	1°24'40		2505 Nov 30 21:29	30° R M	
min. Earth dist.	2504 Dec 12 15:29	21° A 03'36	0.67878 AU	morning rise	2505 Dec 02 11:23	28° M 35'18	
morning rise	2504 Dec 18 00:41	14° A 38'38		direct	2505 Dec 06 10:34	27° M 06'09	
direct	2504 Dec 22 13:41	12° A 46'58			2505 Dec 12 14:58	0° A	
morning max el	2504 Dec 31 17:10	18° A 09'11	21°56'45	morning max el	2505 Dec 14 12:13	1° A 45'06	20°38'18
	2505 Jan 10 11:36	0° B		desc. node	2506 Jan 02 09:21	27° A 07'12	
desc. node	2505 Jan 15 12:20	7° B 00'36			2506 Jan 04 07:25	0° B	
	2505 Jan 30 18:29	0° \approx		morning set	2506 Jan 12 11:31	12° B 30'14	
morning set	2505 Feb 02 09:30	4° \approx 10'52		max. Earth dist.	2506 Jan 21 13:19	26° B 52'44	1.43161 AU
max. Earth dist.	2505 Feb 08 07:26	13° \approx 51'49	1.41318 AU		2506 Jan 23 11:25	0° \approx	

superior conj	2506 Jan 28 02:50	7°  40'27	-2°03'58	max. Earth dist.	2507 Jan 04 02:09	10°  38'36	1.44479 AU
minimum elong	2506 Jan 28 00:22	7°  30'07	2°03'54				
evening rise	2506 Feb 09 05:58	28°  37'00		superior conj	2507 Jan 08 02:28	17°  02'19	-1°46'32
	2506 Feb 10 00:46	0°  ✿		minimum elong	2507 Jan 07 18:41	16°  31'07	1°45'56
asc. node	2506 Feb 21 09:24	19°  08'37			2507 Jan 16 01:45	0°  ≈	
evening max el	2506 Feb 26 09:48	25°  27'29	18°07'27	evening rise	2507 Jan 22 01:35	9°  ≈58'59	
retrograde	2506 Mar 04 22:24	28°  50'53			2507 Feb 03 05:29	0°  ✿	
evening set	2506 Mar 07 16:45	28°  13'46		asc. node	2507 Feb 08 06:26	6°  ✿56'57	
inferior conj	2506 Mar 14 02:02	23°  07'49	3°35'56	evening max el	2507 Feb 09 22:21	8°  ✿46'53	18°20'13
minimum elong	2506 Mar 14 03:24	23°  04'20	3°35'49	retrograde	2507 Feb 16 09:42	12°  ✿16'59	
min. Earth dist.	2506 Mar 17 01:23	20°  07'50	0.61933 AU	evening set	2507 Feb 19 09:23	11°  ✿28'48	
morning rise	2506 Mar 20 12:38	17°  09'59		inferior conj	2507 Feb 25 08:29	6°  ✿03'46	3°41'26
direct	2506 Mar 27 09:46	14°  04'20'00		minimum elong	2507 Feb 25 08:02	6°  ✿05'03	3°41'24
desc. node	2506 Mar 31 08:34	15°  02'6'03		min. Earth dist.	2507 Feb 27 17:17	3°  ✿23'02	0.63866 AU
morning max el	2506 Apr 10 12:34	22°  03'7'50	27°50'06	morning rise	2507 Mar 03 05:54	29°  ≈57'06	
	2506 Apr 17 01:06	0°  Υ			2507 Mar 03 04:28	30°  R≈	
	2506 May 06 10:06	0°  ♂		direct	2507 Mar 10 03:18	27°  ≈10'06	
morning set	2506 May 13 21:37	14°  ♂28'05			2507 Mar 17 21:09	0°  ✿	
max. Earth dist.	2506 May 19 15:54	26°  ♂36'04	1.32452 AU	desc. node	2507 Mar 18 05:35	0°  ✿14'28	
asc. node	2506 May 20 08:41	28°  ♂06'58		morning max el	2507 Mar 23 21:03	5°  ✿05'24	27°36'04
					2507 Apr 11 17:44	0°  Υ	
superior conj	2506 May 21 08:06	0°  ♂14'20	0°10'18	morning set	2507 Apr 27 17:39	28°  Υ27'44	
minimum elong	2506 May 21 07:38	0°  ♂11'43	0°10'11		2507 Apr 28 12:11	0°  ♂	
behind sun begin	2506 May 21 03:39	29°  ♂50'05		max. Earth dist.	2507 May 02 18:52	8°  ♂46'12	1.33165 AU
behind sun end	2506 May 21 11:36	0°  ♂33'21					
	2506 May 21 05:29	0°  ♂		superior conj	2507 May 05 14:43	14°  ♂45'34	-0°17'01
evening rise	2506 May 28 06:00	15°  ♂14'19		minimum elong	2507 May 05 15:33	14°  ♂50'05	0°16'50
	2506 Jun 04 14:43	0°  ♂		asc. node	2507 May 07 05:43	18°  ♂14'47	
evening max el	2506 Jun 22 09:18	25°  ♂24'56	24°25'12	evening rise	2507 May 12 17:39	0°  ♂01'44	
desc. node	2506 Jun 27 07:49	29°  ♂25'31			2507 May 12 17:19	0°  ♂	
	2506 Jun 28 05:55	0°  ♂			2507 May 29 19:01	0°  ♂	
retrograde	2506 Jul 06 06:19	2°  ♂25'30		evening max el	2507 Jun 03 23:13	5°  ♂52'31	22°49'00
evening set	2506 Jul 11 02:24	1°  ♂33'08		desc. node	2507 Jun 14 04:50	12°  ♂08'04	
	2506 Jul 14 12:40	30°  R♂		retrograde	2507 Jun 17 06:11	12°  ♂29'25	
min. Earth dist.	2506 Jul 16 20:13	28°  ♂38'58	0.56757 AU	evening set	2507 Jun 20 14:16	12°  ♂04'57	
inferior conj	2506 Jul 19 13:10	26°  ♂55'58	-4°53'36	min. Earth dist.	2507 Jun 28 07:43	8°  ♂40'18	0.55404 AU
minimum elong	2506 Jul 19 09:46	27°  ♂01'24	4°53'18	inferior conj	2507 Jun 29 18:34	7°  ♂50'12	-4°02'29
morning rise	2506 Jul 27 19:48	22°  ♂53'09		minimum elong	2507 Jun 29 10:49	8°  ♂01'23	4°00'42
direct	2506 Jul 30 11:39	22°  ♂34'00		morning rise	2507 Jul 08 09:44	3°  ♂58'20	
morning max el	2506 Aug 08 23:16	26°  ♂58'41	19°32'13	direct	2507 Jul 11 07:13	3°  ♂38'47	
	2506 Aug 11 19:16	0°  ♂		morning max el	2507 Jul 22 09:36	8°  ♂47'38	20°47'50
asc. node	2506 Aug 16 07:54	6°  ♂17'37		asc. node	2507 Aug 03 04:56	24°  ♂59'57	
morning set	2506 Aug 26 09:22	24°  ♂48'58			2507 Aug 05 21:57	0°  ♂	
	2506 Aug 28 23:08	0°  ♂		morning set	2507 Aug 10 16:13	9°  ♂29'44	
superior conj	2506 Sep 03 09:21	10°  ♂51'00	1°44'16	superior conj	2507 Aug 18 03:58	25°  ♂00'54	1°44'37
minimum elong	2506 Sep 03 10:18	10°  ♂55'39	1°44'15	minimum elong	2507 Aug 18 03:19	24°  ♂57'36	1°44'36
max. Earth dist.	2506 Sep 09 12:22	22°  ♂33'32	1.37701 AU		2507 Aug 20 14:57	0°  ♂	
evening rise	2506 Sep 13 06:37	29°  ♂22'42		max. Earth dist.	2507 Aug 22 20:12	4°  ♂23'58	1.35838 AU
	2506 Sep 13 15:02	0°  ♂		evening rise	2507 Aug 26 22:11	12°  ♂12'42	
desc. node	2506 Sep 23 07:07	16°  ♂11'30			2507 Sep 06 02:19	0°  ♂	
	2506 Oct 02 11:26	0°  ♂		desc. node	2507 Sep 10 04:08	6°  ♂29'07	
evening max el	2506 Oct 19 00:38	20°  ♂28'04	25°14'17		2507 Sep 27 14:01	0°  ♂	
retrograde	2506 Oct 30 23:21	27°  ♂22'14		evening max el	2507 Oct 01 12:40	4°  ♂07'39	26°19'15
evening set	2506 Nov 05 18:52	24°  ♂56'06		retrograde	2507 Oct 14 06:27	11°  ♂18'50	
min. Earth dist.	2506 Nov 10 05:59	19°  ♂57'23	0.67236 AU	evening set	2507 Oct 20 15:37	8°  ♂40'56	
inferior conj	2506 Nov 11 07:46	18°  ♂33'31	-0°20'06	min. Earth dist.	2507 Oct 24 19:28	4°  ♂17'59	0.66407 AU
minimum elong	2506 Nov 11 08:16	18°  ♂31'51	0°19'53	inferior conj	2507 Oct 26 08:33	2°  ♂24'24	-1°18'05
asc. node	2506 Nov 12 07:07	17°  ♂18'12		minimum elong	2507 Oct 26 10:38	2°  ♂18'01	1°17'12
morning rise	2506 Nov 16 21:54	12°  ♂35'38			2507 Oct 28 09:15	30°  R♂	
direct	2506 Nov 20 08:56	11°  ♂26'36		asc. node	2507 Oct 30 04:08	28°  ♂10'05	
morning max el	2506 Nov 27 15:13	15°  ♂32'32	19°32'49	morning rise	2507 Nov 01 06:10	26°  ♂36'18	
	2506 Dec 08 17:27	0°  ♂		direct	2507 Nov 04 07:09	25°  ♂43'46	
greatest brilliancy	2506 Dec 10 21:24	3°  ♂12'48	-0.7m	morning max el	2507 Nov 11 01:04	29°  ♂27'16	18°42'36
desc. node	2506 Dec 20 06:22	17°  ♂30'34			2507 Nov 11 13:46	0°  ♂	
morning set	2506 Dec 22 08:54	20°  ♂45'42		morning set	2507 Dec 02 01:37	0°  ♂04'14	
	2506 Dec 28 07:37	0°  ♂			2507 Dec 02 00:33	0°  ♂	

desc. node	2507 Dec 07 03:23	8°♄05'23		superior conj	2508 Nov 26 11:09	4°♄17'33	-0°23'07
				minimum elong	2508 Nov 26 08:12	4°♄05'53	0°22'42
superior conj	2507 Dec 18 06:54	25°♄36'41	-1°10'27	max. Earth dist.	2508 Nov 29 14:25	9°♄14'51	1.45037 AU
minimum elong	2507 Dec 17 22:36	25°♄04'04	1°09'29	evening rise	2508 Dec 12 20:32	29°♄55'42	
max. Earth dist.	2507 Dec 17 19:20	24°♄51'14	1.45126 AU		2508 Dec 12 21:39	0°♄	
	2507 Dec 21 01:55	0°♄		greatest brilliancy	2508 Dec 25 14:30	19°♄31'44	-0.7m
evening rise	2508 Jan 02 22:02	20°♄22'40			2509 Jan 01 21:40	0°♄	
	2508 Jan 08 21:57	0°♄		evening max el	2509 Jan 06 16:11	5°♄42'43	19°38'30
greatest brilliancy	2508 Jan 10 09:54	2°♄23'36	-0.9m	asc. node	2509 Jan 12 00:28	9°♄36'01	
evening max el	2508 Jan 24 09:08	22°♄13'00	18°51'05	retrograde	2509 Jan 14 00:27	9°♄57'53	
asc. node	2508 Jan 26 03:27	23°♄50'41		evening set	2509 Jan 17 13:35	8°♄44'16	
retrograde	2508 Jan 31 03:27	26°♄00'56		inferior conj	2509 Jan 23 01:08	2°♄47'06	3°06'28
evening set	2508 Feb 03 09:10	25°♄00'41		minimum elong	2509 Jan 22 22:41	2°♄55'09	3°05'57
inferior conj	2508 Feb 09 01:13	19°♄18'27	3°30'12	min. Earth dist.	2509 Jan 24 03:49	1°♄19'20	0.66639 AU
minimum elong	2508 Feb 08 23:28	19°♄23'53	3°29'59		2509 Jan 25 04:33	30°♄♄	
min. Earth dist.	2508 Feb 10 18:31	17°♄10'49	0.65452 AU	morning rise	2509 Jan 28 07:34	26°♄34'07	
morning rise	2508 Feb 14 13:22	13°♄07'23		direct	2509 Feb 03 10:20	23°♄50'42	
direct	2508 Feb 21 03:53	10°♄15'45			2509 Feb 14 12:24	0°♄	
desc. node	2508 Mar 04 02:36	16°♄49'55		morning max el	2509 Feb 15 15:53	1°♄07'32	25°39'18
morning max el	2508 Mar 05 06:49	17°♄59'05	26°49'45	desc. node	2509 Feb 18 23:38	4°♄42'33	
	2508 Mar 15 09:23	0°♄			2509 Mar 09 09:58	0°♄	
	2508 Apr 03 16:04	0°♄		morning set	2509 Mar 23 21:57	24°♄28'54	
morning set	2508 Apr 10 03:13	11°♄52'30			2509 Mar 26 21:16	0°♄	
max. Earth dist.	2508 Apr 14 11:27	20°♄22'52	1.34327 AU	max. Earth dist.	2509 Mar 27 16:25	1°♄30'40	1.35953 AU
superior conj	2508 Apr 18 15:47	28°♄55'44	-0°45'16	superior conj	2509 Apr 02 08:38	12°♄36'42	-1°12'57
minimum elong	2508 Apr 18 18:06	29°♄07'48	0°44'48	minimum elong	2509 Apr 02 12:19	12°♄55'06	1°12'21
	2508 Apr 19 04:07	0°♄		asc. node	2509 Apr 09 23:48	28°♄09'54	
asc. node	2508 Apr 23 02:45	8°♄17'24		evening rise	2509 Apr 10 09:22	28°♄58'35	
evening rise	2508 Apr 26 03:28	14°♄38'52			2509 Apr 10 21:27	0°♄	
	2508 May 03 23:35	0°♄		evening max el	2509 Apr 28 04:01	27°♄50'50	20°01'05
evening max el	2508 May 15 20:00	16°♄34'36	21°17'45		2509 Apr 30 16:33	0°♄	
retrograde	2508 May 27 20:17	22°♄27'08		retrograde	2509 May 08 11:05	2°♄50'01	
evening set	2508 May 30 03:38	22°♄14'54		evening set	2509 May 10 11:14	2°♄39'30	
desc. node	2508 May 31 01:51	22°♄03'25			2509 May 17 03:42	30°♄♄	
inferior conj	2508 Jun 08 13:02	18°♄15'49	-2°25'18	desc. node	2509 May 17 22:52	29°♄32'27	
minimum elong	2508 Jun 08 06:27	18°♄25'04	2°23'06	inferior conj	2509 May 19 10:13	28°♄39'50	-0°25'52
min. Earth dist.	2508 Jun 08 19:47	18°♄06'20	0.54884 AU	minimum elong	2509 May 19 09:02	28°♄41'38	0°25'26
morning rise	2508 Jun 17 09:38	14°♄17'20		min. Earth dist.	2509 May 21 08:56	27°♄29'39	0.55331 AU
direct	2508 Jun 20 17:22	13°♄53'23		morning rise	2509 May 28 04:56	24°♄16'30	
morning max el	2508 Jul 03 08:56	19°♄53'40	22°20'56	direct	2509 Jun 01 07:00	23°♄39'59	
	2508 Jul 11 18:05	0°♄			2509 Jun 14 13:08	0°♄	
asc. node	2508 Jul 20 01:58	14°♄13'44		morning max el	2509 Jun 15 00:43	0°♄26'58	24°03'10
morning set	2508 Jul 25 02:25	24°♄21'12			2509 Jul 05 00:58	0°♄	
	2508 Jul 27 18:32	0°♄		asc. node	2509 Jul 06 23:02	3°♄49'57	
				morning set	2509 Jul 09 14:07	9°♄16'54	
superior conj	2508 Aug 01 06:32	9°♄34'54	1°38'10	superior conj	2509 Jul 16 14:15	24°♄23'16	1°26'08
minimum elong	2508 Aug 01 04:48	9°♄25'42	1°38'01	minimum elong	2509 Jul 16 11:57	24°♄10'49	1°25'50
max. Earth dist.	2508 Aug 04 12:38	16°♄22'55	1.34324 AU	max. Earth dist.	2509 Jul 18 14:17	28°♄41'48	1.33206 AU
evening rise	2508 Aug 09 05:20	25°♄48'19			2509 Jul 19 04:57	0°♄	
	2508 Aug 11 09:45	0°♄		evening rise	2509 Jul 23 23:45	9°♄56'25	
desc. node	2508 Aug 27 01:11	26°♄25'30			2509 Aug 03 18:04	0°♄	
	2508 Aug 29 11:56	0°♄		desc. node	2509 Aug 13 22:13	15°♄50'37	
evening max el	2508 Sep 13 01:06	17°♄40'29	27°05'22		2509 Aug 25 14:17	0°♄	
retrograde	2508 Sep 26 08:01	24°♄58'03		evening max el	2509 Aug 26 12:25	0°♄53'44	27°25'39
evening set	2508 Oct 03 04:47	22°♄15'04		retrograde	2509 Sep 09 03:23	8°♄10'51	
min. Earth dist.	2508 Oct 07 02:01	18°♄28'09	0.65230 AU	evening set	2509 Sep 16 07:25	5°♄32'14	
inferior conj	2508 Oct 09 03:11	16°♄09'14	-2°17'16	min. Earth dist.	2509 Sep 19 23:24	2°♄18'59	0.63703 AU
minimum elong	2508 Oct 09 06:54	15°♄58'43	2°15'51		2509 Sep 22 05:54	30°♄♄	
morning rise	2508 Oct 15 09:52	10°♄33'59		inferior conj	2509 Sep 22 13:06	29°♄41'30	-3°15'04
asc. node	2508 Oct 16 01:09	10°♄17'35		minimum elong	2509 Sep 22 18:09	29°♄28'33	3°13'26
direct	2508 Oct 18 03:13	9°♄54'03		morning rise	2509 Sep 29 06:06	24°♄22'35	
morning max el	2508 Oct 24 15:30	13°♄24'21	18°08'56	direct	2509 Oct 01 18:22	23°♄51'40	
	2508 Nov 05 09:13	0°♄		asc. node	2509 Oct 02 22:12	23°♄58'23	
morning set	2508 Nov 11 23:42	10°♄51'22		morning max el	2509 Oct 08 07:49	27°♄17'08	17°52'40
desc. node	2508 Nov 23 00:26	28°♄48'06			2509 Oct 10 17:28	0°♄	
	2508 Nov 23 18:25	0°♄					

morning set	2509 Oct 25 00:14	22°♄55'19		superior conj	2510 Oct 18 13:02	24°♄56'57	1°00'40
	2509 Oct 29 02:54	0°♄		minimum elong	2510 Oct 18 17:28	25°♄16'07	1°00'06
					2510 Oct 21 12:01	0°♄	
superior conj	2509 Nov 06 10:37	13°♄57'31	0°23'25	max. Earth dist.	2510 Oct 25 22:17	7°♄22'07	1.42789 AU
minimum elong	2509 Nov 06 13:05	14°♄07'39	0°23'04	desc. node	2510 Oct 27 18:32	10°♄22'19	
desc. node	2509 Nov 09 21:30	19°♄34'59		evening rise	2510 Nov 01 18:44	18°♄21'29	
max. Earth dist.	2509 Nov 12 08:30	23°♄31'49	1.44222 AU		2510 Nov 09 08:22	0°♄	
	2509 Nov 16 10:35	0°♄			2510 Dec 01 01:16	0°♄	
evening rise	2509 Nov 22 06:09	9°♄02'24		evening max el	2510 Dec 03 14:13	2°♄45'31	21°53'00
	2509 Dec 06 04:04	0°♄		retrograde	2510 Dec 12 19:21	8°♄14'38	
evening max el	2509 Dec 20 18:03	19°♄13'59	20°40'13	asc. node	2510 Dec 16 18:32	6°♄49'04	
retrograde	2509 Dec 28 22:26	24°♄03'54		evening set	2510 Dec 17 04:18	6°♄30'19	
asc. node	2509 Dec 29 21:29	23°♄58'46		inferior conj	2510 Dec 22 12:40	0°♄12'01	1°52'00
evening set	2510 Jan 01 20:34	22°♄35'33		minimum elong	2510 Dec 22 10:26	0°♄19'44	1°51'12
inferior conj	2510 Jan 07 05:41	16°♄26'07	2°33'07	min. Earth dist.	2510 Dec 22 14:31	0°♄05'34	0.67810 AU
minimum elong	2510 Jan 07 03:06	16°♄34'56	2°32'21		2510 Dec 22 16:08	30°♄♄	
min. Earth dist.	2510 Jan 07 19:14	15°♄39'48	0.67416 AU	morning rise	2510 Dec 27 16:27	24°♄00'19	
morning rise	2510 Jan 12 09:28	10°♄13'00		direct	2511 Jan 01 13:46	21°♄55'45	
direct	2510 Jan 17 21:54	7°♄46'42		morning max el	2511 Jan 11 10:20	27°♄45'51	22°46'04
morning max el	2510 Jan 29 00:21	14°♄23'57	24°14'45		2511 Jan 13 12:54	0°♄	
desc. node	2510 Feb 05 20:41	23°♄30'17		desc. node	2511 Jan 23 17:44	12°♄56'45	
	2510 Feb 10 17:38	0°♄			2511 Feb 04 09:56	0°♄	
	2510 Mar 02 07:26	0°♄		morning set	2511 Feb 14 15:53	16°♄16'10	
morning set	2510 Mar 05 20:13	6°♄02'01		max. Earth dist.	2511 Feb 19 08:55	24°♄10'40	1.40112 AU
max. Earth dist.	2510 Mar 09 13:16	12°♄35'38	1.37953 AU		2511 Feb 22 17:28	0°♄	
superior conj	2510 Mar 16 13:57	25°♄39'44	-1°37'51	superior conj	2511 Feb 27 03:15	7°♄53'22	-1°56'52
minimum elong	2510 Mar 16 18:21	26°♄00'50	1°37'20	minimum elong	2511 Feb 27 06:56	8°♄10'07	1°56'37
	2510 Mar 18 19:48	0°♄		evening rise	2511 Mar 08 23:04	26°♄18'00	
evening rise	2510 Mar 25 08:56	12°♄54'25			2511 Mar 10 21:56	0°♄	
asc. node	2510 Mar 27 20:51	17°♄47'48		asc. node	2511 Mar 14 17:53	7°♄05'07	
	2510 Apr 03 14:24	0°♄		evening max el	2511 Mar 25 03:44	22°♄16'52	18°26'06
evening max el	2510 Apr 10 23:25	9°♄46'36	19°03'28	retrograde	2511 Apr 01 14:50	25°♄57'55	
retrograde	2510 Apr 19 15:32	13°♄59'19		evening set	2511 Apr 04 00:09	25°♄36'23	
evening set	2510 Apr 21 18:49	13°♄45'02		inferior conj	2511 Apr 11 09:11	21°♄03'12	2°38'43
inferior conj	2510 Apr 29 23:06	9°♄31'19	1°21'54	minimum elong	2511 Apr 11 13:02	20°♄55'21	2°37'47
minimum elong	2510 Apr 30 02:08	9°♄26'03	1°20'54	min. Earth dist.	2511 Apr 14 19:46	18°♄16'57	0.58561 AU
min. Earth dist.	2510 May 03 00:16	7°♄25'23	0.56650 AU	morning rise	2511 Apr 18 23:01	15°♄33'58	
desc. node	2510 May 04 19:53	6°♄16'22		desc. node	2511 Apr 21 16:55	14°♄26'56	
morning rise	2510 May 08 06:22	4°♄33'12		direct	2511 Apr 25 00:25	13°♄58'05	
direct	2510 May 13 08:38	3°♄32'12		morning max el	2511 May 09 09:46	21°♄40'39	26°57'16
morning max el	2510 May 27 15:13	10°♄53'21	25°40'33		2511 May 16 16:32	0°♄	
	2510 Jun 11 05:43	0°♄			2511 Jun 04 01:15	0°♄	
asc. node	2510 Jun 23 20:08	23°♄42'04		morning set	2511 Jun 08 11:32	8°♄59'30	
morning set	2510 Jun 24 01:43	24°♄11'31		asc. node	2511 Jun 10 17:12	13°♄44'30	
	2510 Jun 26 18:47	0°♄					
superior conj	2510 Jul 01 00:56	9°♄18'52	1°09'27	superior conj	2511 Jun 15 12:44	24°♄15'35	0°48'54
minimum elong	2510 Jun 30 22:35	9°♄05'57	1°09'04	minimum elong	2511 Jun 15 10:47	24°♄04'54	0°48'32
max. Earth dist.	2510 Jul 01 22:45	11°♄18'21	1.32484 AU	max. Earth dist.	2511 Jun 15 10:31	24°♄03'21	1.32153 AU
evening rise	2510 Jul 08 02:07	24°♄26'52		evening rise	2511 Jun 18 03:22	0°♄	
	2510 Jul 10 19:39	0°♄			2511 Jun 22 09:45	9°♄11'20	
	2510 Jul 28 10:33	0°♄		desc. node	2511 Jul 03 04:26	0°♄	
desc. node	2510 Jul 31 19:14	4°♄31'38		evening max el	2511 Jul 18 16:14	22°♄10'26	
evening max el	2510 Aug 08 20:01	13°♄33'30	27°14'47		2511 Jul 21 21:29	25°♄29'23	26°30'47
retrograde	2510 Aug 22 15:56	20°♄48'10		retrograde	2511 Jul 27 14:09	0°♄	
evening set	2510 Aug 29 19:44	18°♄26'10		evening set	2511 Aug 04 20:54	2°♄41'31	
min. Earth dist.	2510 Sep 02 10:11	15°♄38'55	0.61860 AU		2511 Aug 11 13:07	0°♄49'24	
inferior conj	2510 Sep 05 11:12	12°♄53'42	-4°07'09	min. Earth dist.	2511 Aug 12 22:25	30°♄♄	
minimum elong	2510 Sep 05 16:41	12°♄41'16	4°05'51	inferior conj	2511 Aug 15 10:52	28°♄13'35	0.59811 AU
morning rise	2510 Sep 12 15:14	7°♄54'40		minimum elong	2511 Aug 18 18:02	25°♄37'06	-4°46'24
direct	2510 Sep 15 01:06	7°♄29'47		morning rise	2511 Aug 18 22:02	25°♄29'09	4°45'54
asc. node	2510 Sep 19 19:18	9°♄10'03		direct	2511 Aug 26 09:01	21°♄00'28	
morning max el	2510 Sep 21 22:59	10°♄58'40	17°54'38	morning max el	2511 Aug 28 19:12	20°♄39'12	
	2510 Oct 04 13:59	0°♄		asc. node	2511 Sep 05 09:52	24°♄21'02	18°16'02
morning set	2510 Oct 07 20:49	5°♄56'20			2511 Sep 06 16:22	25°♄39'52	
					2511 Sep 10 01:46	0°♄	
				morning set	2511 Sep 21 07:53	19°♄39'08	


































































































































	2511 Sep 26 19:12	0°♄		superior conj	2512 Sep 12 14:41	20°♄18'48	1°40'23
				minimum elong	2512 Sep 12 16:42	20°♄28'26	1°40'17
superior conj	2511 Sep 30 16:15	7°♄09'41	1°26'04		2512 Sep 17 18:56	0°♄	
minimum elong	2511 Sep 30 20:00	7°♄26'46	1°25'42	max. Earth dist.	2512 Sep 19 10:32	2°♄59'03	1.38871 AU
max. Earth dist.	2511 Oct 08 06:23	20°♄32'11	1.40925 AU	evening rise	2512 Sep 23 07:23	9°♄46'58	
evening rise	2511 Oct 13 01:11	28°♄31'22		desc. node	2512 Sep 30 12:35	21°♄45'18	
	2511 Oct 13 22:56	0°♄			2512 Oct 05 19:38	0°♄	
desc. node	2511 Oct 14 15:33	1°♄07'15			2512 Oct 28 19:29	0°♄	
	2511 Nov 02 22:35	0°♄		evening max el	2512 Oct 28 18:33	29°♄57'42	24°31'23
evening max el	2511 Nov 16 05:43	16°♄19'40	23°12'03	retrograde	2512 Nov 09 04:14	6°♄37'15	
retrograde	2511 Nov 26 13:43	22°♄27'09		evening set	2512 Nov 14 15:27	4°♄20'04	
evening set	2511 Dec 01 11:08	20°♄26'14			2512 Nov 18 13:16	30°♄	
asc. node	2511 Dec 03 15:34	18°♄13'36		min. Earth dist.	2512 Nov 19 07:09	29°♄01'03	0.67562 AU
inferior conj	2511 Dec 06 20:15	14°♄02'55	1°04'35	asc. node	2512 Nov 19 12:36	28°♄42'55	
minimum elong	2511 Dec 06 18:48	14°♄07'53	1°03'59	inferior conj	2512 Nov 20 02:37	27°♄56'02	0°12'02
min. Earth dist.	2511 Dec 06 11:19	14°♄33'38	0.67855 AU	minimum elong	2512 Nov 20 02:19	27°♄57'01	0°11'54
morning rise	2511 Dec 12 02:23	7°♄54'35		transit middle	2512 Nov 20 02:19	27°♄57'01	0°11'54
direct	2511 Dec 16 09:15	6°♄12'49		transit begin	2512 Nov 20 00:27	28°♄03'16	
morning max el	2511 Dec 25 01:16	11°♄16'05	21°21'54	transit end	2512 Nov 20 04:11	27°♄50'47	
	2512 Jan 08 15:28	0°♄		morning rise	2512 Nov 25 13:15	21°♄53'24	
desc. node	2512 Jan 10 14:46	2°♄51'17		direct	2512 Nov 29 07:03	20°♄33'05	
morning set	2512 Jan 25 06:42	25°♄09'06		morning max el	2512 Dec 06 23:36	24°♄56'50	20°08'32
	2512 Jan 28 07:48	0°♄			2512 Dec 11 09:16	0°♄	
max. Earth dist.	2512 Feb 01 09:40	6°♄37'29	1.42153 AU	desc. node	2512 Dec 27 11:48	23°♄05'55	
					2513 Jan 01 00:19	0°♄	
superior conj	2512 Feb 08 19:28	19°♄05'48	-2°05'36	morning set	2513 Jan 03 03:30	3°♄17'11	
minimum elong	2512 Feb 08 19:59	19°♄08'04	2°05'35	max. Earth dist.	2513 Jan 13 18:21	19°♄58'11	1.43802 AU
	2512 Feb 15 00:18	0°♄					
evening rise	2512 Feb 20 00:02	9°♄00'46		superior conj	2513 Jan 19 10:09	29°♄08'04	-1°58'57
asc. node	2512 Feb 29 14:54	25°♄55'06		minimum elong	2513 Jan 19 05:13	28°♄47'52	1°58'43
	2512 Mar 03 07:09	0°♄			2513 Jan 19 22:48	0°♄	
evening max el	2512 Mar 07 13:44	5°♄13'14	18°08'42	evening rise	2513 Feb 01 07:33	20°♄54'15	
retrograde	2512 Mar 14 07:23	8°♄38'36			2513 Feb 06 14:00	0°♄	
evening set	2512 Mar 16 22:37	8°♄07'34		asc. node	2513 Feb 15 11:54	14°♄09'10	
inferior conj	2512 Mar 23 15:29	3°♄13'42	3°22'57	evening max el	2513 Feb 19 02:15	18°♄26'57	18°10'40
minimum elong	2512 Mar 23 17:58	3°♄07'51	3°22'35	retrograde	2513 Feb 25 13:05	21°♄51'19	
min. Earth dist.	2512 Mar 26 21:36	0°♄11'19	0.60716 AU	evening set	2513 Feb 28 09:45	21°♄09'33	
	2512 Mar 27 02:42	30°♄		inferior conj	2513 Mar 06 14:18	15°♄55'28	3°40'36
morning rise	2512 Mar 30 11:19	27°♄23'42		minimum elong	2513 Mar 06 14:50	15°♄54'01	3°40'35
direct	2512 Apr 06 04:15	25°♄12'04		min. Earth dist.	2513 Mar 09 07:51	13°♄01'27	0.62796 AU
desc. node	2512 Apr 07 13:56	25°♄17'35		morning rise	2513 Mar 12 18:50	9°♄53'28	
	2512 Apr 17 00:15	0°♄		direct	2513 Mar 19 17:21	7°♄15'28	
morning max el	2512 Apr 20 10:26	3°♄05'41	27°41'27	desc. node	2513 Mar 25 10:58	8°♄48'30	
	2512 May 10 04:27	0°♄		morning max el	2513 Apr 02 16:30	15°♄11'50	27°48'26
morning set	2512 May 22 17:44	23°♄34'23			2513 Apr 14 18:16	0°♄	
	2512 May 25 19:05	0°♄			2513 May 02 18:36	0°♄	
asc. node	2512 May 27 14:13	3°♄52'18		morning set	2513 May 06 18:13	7°♄49'27	
max. Earth dist.	2512 May 28 21:51	6°♄44'35	1.32221 AU	max. Earth dist.	2513 May 12 05:00	19°♄09'51	1.32700 AU
superior conj	2512 May 29 23:53	9°♄07'08	0°25'08	superior conj	2513 May 14 08:43	23°♄47'57	-0°01'07
minimum elong	2512 May 29 22:46	9°♄01'00	0°24'55	minimum elong	2513 May 14 08:46	23°♄48'15	0°01'06
evening rise	2512 Jun 05 20:27	24°♄02'14		behind sun begin	2513 May 14 03:34	23°♄20'06	
	2512 Jun 08 17:10	0°♄		behind sun end	2513 May 14 13:58	24°♄16'25	
	2512 Jun 26 16:47	0°♄		asc. node	2513 May 14 11:14	24°♄01'35	
evening max el	2512 Jul 02 15:50	6°♄38'21	25°17'10		2513 May 17 05:15	0°♄	
desc. node	2512 Jul 04 13:15	8°♄20'53		evening rise	2513 May 21 08:18	8°♄53'15	
retrograde	2512 Jul 16 15:54	13°♄45'17			2513 Jun 01 07:34	0°♄	
evening set	2512 Jul 22 07:09	12°♄31'45		evening max el	2513 Jun 14 05:39	17°♄13'38	23°44'42
min. Earth dist.	2512 Jul 27 03:43	9°♄48'53	0.57784 AU	desc. node	2513 Jun 21 10:14	22°♄29'52	
inferior conj	2512 Jul 30 06:07	7°♄41'15	-5°01'35	retrograde	2513 Jun 27 22:24	24°♄05'51	
minimum elong	2512 Jul 30 05:58	7°♄41'32	5°01'36	evening set	2513 Jul 02 02:49	23°♄27'23	
morning rise	2512 Aug 07 07:16	3°♄26'54		min. Earth dist.	2513 Jul 08 16:04	20°♄21'46	0.56097 AU
direct	2512 Aug 09 20:20	3°♄07'25		inferior conj	2513 Jul 10 21:59	19°♄00'22	-4°38'06
morning max el	2512 Aug 18 13:07	7°♄13'18	18°58'13	minimum elong	2513 Jul 10 16:18	19°♄09'00	4°37'14
asc. node	2512 Aug 23 13:25	13°♄11'29		morning rise	2513 Jul 19 08:21	15°♄03'32	
	2512 Sep 02 05:51	0°♄		direct	2513 Jul 22 02:29	14°♄44'20	
morning set	2512 Sep 04 05:01	3°♄50'46		morning max el	2513 Aug 01 05:56	19°♄26'36	20°01'53

	2513 Aug 09 12:05	0°♎		2514 Jul 13 10:08	0°♏	
asc. node	2513 Aug 10 10:28	1°♎31'23	morning max el	2514 Jul 14 11:14	0°♏55'40	21°25'46
morning set	2513 Aug 19 09:03	18°♎22'53	asc. node	2514 Jul 28 07:31	20°♏27'50	
	2513 Aug 25 01:39	0°♏	morning set	2514 Aug 02 04:51	0°♎	
				2514 Aug 03 17:33	3°♎08'37	
superior conj	2513 Aug 27 03:10	4°♏09'47	1°45'20			
minimum elong	2513 Aug 27 03:23	4°♏10'53	1°45'20	superior conj	2514 Aug 11 01:31	18°♎30'35
max. Earth dist.	2513 Sep 01 15:41	14°♏56'57	1.36879 AU	minimum elong	2514 Aug 11 00:21	18°♎24'30
evening rise	2513 Sep 05 11:58	22°♏05'11		max. Earth dist.	2514 Aug 15 03:06	26°♎49'14
	2513 Sep 09 23:29	0°♏			2514 Aug 16 17:31	0°♏
desc. node	2513 Sep 17 09:36	12°♏11'51		evening rise	2514 Aug 19 10:39	5°♏15'19
	2513 Sep 29 15:39	0°♏			2514 Sep 02 18:02	0°♏
evening max el	2513 Oct 11 06:43	13°♏38'28	25°43'46	desc. node	2514 Sep 04 06:37	2°♏21'11
retrograde	2513 Oct 23 14:03	20°♏40'24		evening max el	2514 Sep 23 19:00	27°♏16'12
evening set	2513 Oct 29 15:31	18°♏08'55			2514 Sep 26 20:37	0°♏
min. Earth dist.	2513 Nov 02 23:35	13°♏25'13	0.66931 AU	retrograde	2514 Oct 06 18:43	4°♏30'43
inferior conj	2513 Nov 04 06:00	11°♏48'34	-0°44'23	evening set	2514 Oct 13 09:23	1°♏49'31
minimum elong	2513 Nov 04 07:09	11°♏44'54	0°43'53		2514 Oct 15 08:29	30°♏♏
asc. node	2513 Nov 06 09:38	9°♏10'06		min. Earth dist.	2514 Oct 17 10:17	27°♏42'16
morning rise	2513 Nov 09 23:05	5°♏54'23		inferior conj	2514 Oct 19 04:28	25°♏37'16
direct	2513 Nov 13 05:41	4°♏52'38		minimum elong	2514 Oct 19 07:15	25°♏29'00
morning max el	2513 Nov 20 05:40	8°♏47'27	19°09'28	asc. node	2514 Oct 24 06:42	20°♏30'01
	2513 Dec 05 14:48	0°♏		morning rise	2514 Oct 25 05:46	19°♏54'28
morning set	2513 Dec 13 06:53	11°♏53'40		direct	2514 Oct 28 03:16	19°♏07'42
desc. node	2513 Dec 14 08:51	13°♏34'47		morning max el	2514 Nov 03 17:52	22°♏44'09
	2513 Dec 24 20:59	0°♏			2514 Nov 09 13:36	0°♏
max. Earth dist.	2513 Dec 27 09:52	3°♏59'30	1.44851 AU	morning set	2514 Nov 23 11:58	21°♏50'26
					2514 Nov 28 14:09	0°♏
superior conj	2513 Dec 30 00:03	8°♏05'08	-1°33'16	desc. node	2514 Dec 01 05:54	4°♏13'40
minimum elong	2513 Dec 29 15:10	7°♏29'57	1°32'26			
	2514 Jan 12 14:21	0°♏		superior conj	2514 Dec 09 01:43	16°♏34'56
evening rise	2514 Jan 13 17:34	1°♏51'44		minimum elong	2514 Dec 08 19:15	16°♏09'32
	2514 Jan 31 22:29	0°♏		max. Earth dist.	2514 Dec 10 04:51	18°♏21'29
asc. node	2514 Feb 02 08:56	1°♏36'03			2514 Dec 17 14:58	0°♏
evening max el	2514 Feb 02 14:23	1°♏50'04	18°31'11	evening rise	2514 Dec 25 04:20	11°♏53'17
retrograde	2514 Feb 09 03:35	5°♏26'13		greatest brilliancy	2515 Jan 04 04:06	27°♏35'48
evening set	2514 Feb 12 05:49	4°♏32'50			2515 Jan 05 17:28	0°♏
	2514 Feb 17 05:05	30°♏♏		evening max el	2515 Jan 16 23:48	15°♏18'17
inferior conj	2514 Feb 18 01:33	29°♏00'04	3°38'23	asc. node	2515 Jan 20 05:58	18°♏03'01
minimum elong	2514 Feb 18 00:28	29°♏03'15	3°38'19	retrograde	2515 Jan 23 23:14	19°♏16'55
min. Earth dist.	2514 Feb 20 03:38	26°♏32'30	0.64594 AU	evening set	2515 Jan 27 07:55	18°♏11'04
morning rise	2514 Feb 23 18:36	22°♏51'21		inferior conj	2515 Feb 01 21:45	12°♏21'51
direct	2514 Mar 02 13:49	20°♏00'56		minimum elong	2515 Feb 01 19:38	12°♏28'37
desc. node	2514 Mar 12 08:00	24°♏26'43		min. Earth dist.	2515 Feb 03 08:33	10°♏30'58
morning max el	2514 Mar 16 01:48	27°♏51'44	27°19'54	morning rise	2515 Feb 07 07:04	6°♏09'36
	2514 Mar 18 02:47	0°♏		direct	2515 Feb 13 16:53	3°♏20'27
	2514 Apr 08 11:44	0°♏		morning max el	2515 Feb 26 11:44	10°♏54'17
morning set	2514 Apr 20 10:13	21°♏35'11		desc. node	2515 Feb 27 05:04	11°♏38'36
	2514 Apr 24 15:04	0°♏			2515 Mar 13 16:24	0°♏
max. Earth dist.	2514 Apr 25 04:07	1°♏07'00	1.33610 AU		2515 Apr 01 01:16	0°♏
				morning set	2515 Apr 03 14:06	4°♏41'03
superior conj	2514 Apr 28 13:14	8°♏10'47	-0°28'57	max. Earth dist.	2515 Apr 07 16:02	12°♏31'04
minimum elong	2514 Apr 28 14:42	8°♏18'32	0°28'39			
asc. node	2514 May 01 08:15	14°♏07'27		superior conj	2515 Apr 12 11:09	22°♏09'09
evening rise	2514 May 05 19:24	23°♏37'03		minimum elong	2515 Apr 12 14:05	22°♏24'10
	2514 May 08 21:43	0°♏			2515 Apr 16 06:06	0°♏
evening max el	2514 May 26 21:32	27°♏42'53	22°08'47	asc. node	2515 Apr 18 05:17	4°♏06'00
	2514 May 29 11:54	0°♏		evening rise	2515 Apr 20 03:51	8°♏07'30
desc. node	2514 Jun 08 07:15	4°♏02'27			2515 May 02 00:50	0°♏
retrograde	2514 Jun 08 16:57	4°♏02'50		evening max el	2515 May 08 22:38	8°♏36'45
evening set	2514 Jun 11 12:44	3°♏45'07		retrograde	2515 May 20 06:08	14°♏07'18
min. Earth dist.	2514 Jun 20 03:10	0°♏03'55	0.55073 AU	evening set	2515 May 22 08:23	13°♏56'43
	2514 Jun 20 05:57	30°♏♏		desc. node	2515 May 26 04:16	12°♏48'08
inferior conj	2514 Jun 20 21:11	29°♏38'36	-3°25'59	inferior conj	2515 May 31 14:54	9°♏58'58
minimum elong	2514 Jun 20 13:09	29°♏49'55	3°23'43	minimum elong	2515 May 31 10:25	10°♏05'24
morning rise	2514 Jun 29 15:19	25°♏46'44		min. Earth dist.	2515 Jun 01 15:31	9°♏23'43
direct	2514 Jul 02 16:37	25°♏25'54		morning rise	2515 Jun 09 11:53	5°♏51'55

direct	2515 Jun 13 02:04	5° Π 24'08		min. Earth dist.	2516 May 13 05:54	18° \mathcal{B} 57'27	0.55796 AU
morning max el	2515 Jun 26 06:49	11° Π 45'23	23°04'12	morning rise	2516 May 19 08:32	15° \mathcal{B} 54'37	
	2515 Jul 09 21:02	0° \mathcal{E}		direct	2516 May 23 20:26	15° \mathcal{B} 09'09	
asc. node	2515 Jul 15 04:34	9° \mathcal{E} 51'37		morning max el	2516 Jun 06 21:27	22° \mathcal{B} 13'18	24°46'07
morning set	2515 Jul 19 04:33	18° \mathcal{E} 02'04			2516 Jun 13 17:58	0° Π	
	2515 Jul 24 18:52	0° Ω		asc. node	2516 Jul 01 01:38	29° Π 35'25	
					2516 Jul 01 06:22	0° \mathcal{E}	
superior conj	2515 Jul 26 06:33	3° Ω 11'18	1°33'40	morning set	2516 Jul 02 16:26	2° \mathcal{E} 58'14	
minimum elong	2515 Jul 26 04:31	3° Ω 00'23	1°33'28				
max. Earth dist.	2515 Jul 28 23:24	8° Ω 54'51	1.33789 AU	superior conj	2516 Jul 09 15:49	18° \mathcal{E} 04'09	1°19'34
evening rise	2515 Aug 02 22:59	19° Ω 05'17		minimum elong	2516 Jul 09 13:26	17° \mathcal{E} 51'11	1°19'14
	2515 Aug 08 16:36	0° \mathcal{M}		max. Earth dist.	2516 Jul 11 04:08	21° \mathcal{E} 21'22	1.32844 AU
desc. node	2515 Aug 22 03:38	22° \mathcal{M} 05'15			2516 Jul 15 05:35	0° Ω	
	2515 Aug 27 21:19	0° \mathcal{L}		evening rise	2516 Jul 16 21:12	3° Ω 24'33	
evening max el	2515 Sep 06 06:54	10° \mathcal{L} 40'54	27°17'34		2516 Jul 31 10:55	0° \mathcal{M}	
retrograde	2515 Sep 19 17:49	17° \mathcal{L} 59'39		desc. node	2516 Aug 08 00:39	11° \mathcal{M} 13'38	
evening set	2515 Sep 26 18:29	15° \mathcal{L} 16'47		evening max el	2516 Aug 18 16:55	23° \mathcal{M} 41'29	27°25'08
min. Earth dist.	2515 Sep 30 13:02	11° \mathcal{L} 45'03	0.64614 AU		2516 Aug 27 18:17	0° \mathcal{L}	
inferior conj	2515 Oct 02 19:42	9° \mathcal{L} 16'50	-2°42'13	retrograde	2516 Sep 01 10:42	0° \mathcal{L} 58'25	
minimum elong	2515 Oct 03 00:03	9° \mathcal{L} 05'01	2°40'38		2516 Sep 05 21:37	30° \mathcal{R} \mathcal{M}	
morning rise	2515 Oct 09 06:40	3° \mathcal{L} 48'27		evening set	2516 Sep 08 15:33	28° \mathcal{M} 25'16	
asc. node	2515 Oct 11 03:46	3° \mathcal{L} 15'45		min. Earth dist.	2516 Sep 12 06:09	25° \mathcal{M} 24'14	0.62945 AU
direct	2515 Oct 11 21:28	3° \mathcal{L} 12'53		inferior conj	2516 Sep 15 00:59	22° \mathcal{M} 41'37	-3°38'15
morning max el	2515 Oct 18 09:31	6° \mathcal{L} 40'12	17°59'57	minimum elong	2516 Sep 15 06:23	22° \mathcal{M} 28'26	3°36'41
	2515 Nov 03 00:23	0° \mathcal{M}		morning rise	2516 Sep 21 22:38	17° \mathcal{M} 30'45	
morning set	2515 Nov 04 21:55	3° \mathcal{M} 11'39		direct	2516 Sep 24 09:25	17° \mathcal{M} 02'52	
desc. node	2515 Nov 18 02:55	24° \mathcal{M} 58'13		asc. node	2516 Sep 27 00:50	17° \mathcal{M} 36'07	
				morning max el	2516 Oct 01 01:43	20° \mathcal{M} 29'08	17°51'11
superior conj	2515 Nov 18 12:19	25° \mathcal{M} 35'56	-0°02'40		2516 Oct 08 04:27	0° \mathcal{L}	
minimum elong	2515 Nov 18 11:59	25° \mathcal{M} 34'38	0°02'38	morning set	2516 Oct 17 07:44	15° \mathcal{L} 41'42	
behind sun begin	2515 Nov 18 01:38	24° \mathcal{M} 53'03			2516 Oct 25 12:35	0° \mathcal{M}	
behind sun end	2515 Nov 18 22:21	26° \mathcal{M} 16'10					
	2515 Nov 21 06:26	0° \mathcal{X}		superior conj	2516 Oct 28 23:00	5° \mathcal{M} 48'48	0°40'36
max. Earth dist.	2515 Nov 22 23:32	2° \mathcal{X} 42'54	1.44765 AU	minimum elong	2516 Oct 29 02:44	6° \mathcal{M} 04'27	0°40'05
evening rise	2515 Dec 04 19:39	21° \mathcal{X} 10'17		desc. node	2516 Nov 03 23:59	15° \mathcal{M} 45'29	
	2515 Dec 10 13:43	0° \mathcal{Z}		max. Earth dist.	2516 Nov 04 15:28	16° \mathcal{M} 48'00	1.43676 AU
greatest brilliancy	2515 Dec 19 01:45	12° \mathcal{Z} 48'29	-0.6m	evening rise	2516 Nov 13 04:18	0° \mathcal{X} 16'12	
evening max el	2515 Dec 31 04:41	28° \mathcal{Z} 48'11	20°03'07		2516 Nov 13 00:07	0° \mathcal{X}	
	2516 Jan 01 10:06	0° \approx			2516 Dec 03 06:17	0° \mathcal{Z}	
asc. node	2516 Jan 07 03:01	3° \approx 14'47		evening max el	2516 Dec 13 04:07	12° \mathcal{Z} 19'14	21°10'09
retrograde	2516 Jan 07 21:02	3° \approx 17'54		retrograde	2516 Dec 21 18:44	17° \mathcal{Z} 25'37	
evening set	2516 Jan 11 13:41	1° \approx 58'19		asc. node	2516 Dec 24 00:04	16° \mathcal{Z} 58'16	
	2516 Jan 13 17:39	30° \mathcal{R} \mathcal{Z}		evening set	2516 Dec 25 21:10	15° \mathcal{Z} 50'50	
inferior conj	2516 Jan 16 23:57	25° \mathcal{Z} 55'27	2°53'24	inferior conj	2516 Dec 31 05:47	9° \mathcal{Z} 37'22	2°16'33
minimum elong	2516 Jan 16 21:23	26° \mathcal{Z} 04'03	2°52'45	minimum elong	2516 Dec 31 03:18	9° \mathcal{Z} 45'56	2°15'44
min. Earth dist.	2516 Jan 17 20:53	24° \mathcal{Z} 45'12	0.67015 AU	min. Earth dist.	2516 Dec 31 14:18	9° \mathcal{Z} 07'58	0.67628 AU
morning rise	2516 Jan 22 04:53	19° \mathcal{Z} 41'55		morning rise	2517 Jan 05 09:14	3° \mathcal{Z} 24'29	
direct	2516 Jan 28 01:40	17° \mathcal{Z} 04'53		direct	2517 Jan 10 15:19	1° \mathcal{Z} 06'47	
morning max el	2516 Feb 08 20:34	24° \mathcal{Z} 07'08	25°04'25	morning max el	2517 Jan 21 05:05	7° \mathcal{Z} 24'42	23°36'53
desc. node	2516 Feb 14 02:07	29° \mathcal{Z} 56'53		desc. node	2517 Jan 30 23:10	19° \mathcal{Z} 02'24	
	2516 Feb 14 03:09	0° \approx			2517 Feb 07 19:36	0° \approx	
	2516 Mar 06 02:33	0° \mathcal{X}		morning set	2517 Feb 25 12:37	27° \approx 54'15	
morning set	2516 Mar 16 00:58	16° \mathcal{X} 53'09			2517 Feb 26 18:05	0° \mathcal{X}	
max. Earth dist.	2516 Mar 19 16:41	23° \mathcal{X} 32'51	1.36766 AU	max. Earth dist.	2517 Mar 01 11:34	4° \mathcal{X} 44'33	1.38865 AU
	2516 Mar 23 02:39	0° \mathcal{Y}					
superior conj	2516 Mar 25 23:36	5° \mathcal{Y} 35'14	-1°24'01	superior conj	2517 Mar 08 22:43	18° \mathcal{X} 18'56	-1°46'53
minimum elong	2516 Mar 26 03:41	5° \mathcal{Y} 55'25	1°23'25	minimum elong	2517 Mar 09 03:03	18° \mathcal{X} 39'16	1°46'27
evening rise	2516 Apr 03 07:25	22° \mathcal{Y} 18'02			2517 Mar 15 01:12	0° \mathcal{Y}	
asc. node	2516 Apr 04 02:21	23° \mathcal{Y} 52'58		evening rise	2517 Mar 18 03:22	6° \mathcal{Y} 00'56	
	2516 Apr 07 04:58	0° \mathcal{B}		asc. node	2517 Mar 21 23:23	13° \mathcal{Y} 22'45	
evening max el	2516 Apr 20 11:45	20° \mathcal{B} 10'34	19°34'06		2517 Apr 01 07:04	0° \mathcal{B}	
retrograde	2516 Apr 30 01:36	24° \mathcal{B} 48'31		evening max el	2517 Apr 03 11:28	2° \mathcal{B} 22'40	18°45'08
evening set	2516 May 02 02:07	24° \mathcal{B} 37'03		retrograde	2517 Apr 11 13:35	6° \mathcal{B} 19'24	
inferior conj	2516 May 10 17:42	20° \mathcal{B} 32'52	0°22'52	evening set	2517 Apr 13 19:30	6° \mathcal{B} 02'19	
minimum elong	2516 May 10 18:41	20° \mathcal{B} 31'18	0°22'31	inferior conj	2517 Apr 21 15:23	1° \mathcal{B} 40'58	1°58'39
desc. node	2516 May 12 01:17	19° \mathcal{B} 42'27		minimum elong	2517 Apr 21 19:09	1° \mathcal{B} 33'59	1°57'32
					2517 Apr 23 21:50	30° \mathcal{R} \mathcal{Y}	

min. Earth dist.	2517 Apr 24 22:46	29° Υ 15'14	0.57415 AU	min. Earth dist.	2518 Apr 06 20:22	10° Υ 34'10	0.59473 AU
desc. node	2517 Apr 28 22:20	26° Υ 49'10		morning rise	2518 Apr 10 16:30	7° Υ 51'01	
morning rise	2517 Apr 29 15:40	26° Υ 28'48		desc. node	2518 Apr 15 19:21	6° Υ 03'59	
direct	2517 May 05 04:42	25° Υ 13'29		direct	2518 Apr 17 01:43	5° Υ 59'38	
	2517 May 16 10:30	0° \mathcal{B}		morning max el	2518 May 01 09:58	13° Υ 46'53	27°20'27
morning max el	2517 May 19 12:59	2° \mathcal{B} 45'06	26°16'25		2518 May 14 08:37	0° \mathcal{B}	
	2517 Jun 08 00:41	0° Π			2518 May 31 06:15	0° Π	
morning set	2517 Jun 17 03:27	17° Π 50'32		morning set	2518 Jun 01 11:58	2° Π 33'37	
asc. node	2517 Jun 17 22:40	19° Π 32'17		asc. node	2518 Jun 04 19:42	9° Π 37'22	
	2517 Jun 22 18:18	0° \mathcal{E}		max. Earth dist.	2518 Jun 08 02:41	16° Π 48'39	1.32146 AU
superior conj	2517 Jun 24 03:12	3° \mathcal{E} 01'00	1°01'10	superior conj	2518 Jun 08 14:55	17° Π 55'59	0°39'11
minimum elong	2517 Jun 24 00:58	2° \mathcal{E} 48'43	1°00'47	minimum elong	2518 Jun 08 13:17	17° Π 46'58	0°38'51
max. Earth dist.	2517 Jun 24 14:27	4° \mathcal{E} 02'55	1.32301 AU		2518 Jun 14 03:23	0° \mathcal{E}	
evening rise	2517 Jul 01 02:07	18° \mathcal{E} 02'11		evening rise	2518 Jun 15 11:20	2° \mathcal{E} 50'18	
	2517 Jul 07 01:48	0° Ω			2518 Jun 30 01:23	0° Ω	
desc. node	2517 Jul 25 21:39	29° Ω 30'38		desc. node	2518 Jul 12 18:39	16° Ω 35'10	
	2517 Jul 26 07:22	0° \mathcal{M}		evening max el	2518 Jul 13 20:53	17° Ω 39'30	26°02'27
evening max el	2517 Jul 31 22:23	6° \mathcal{M} 04'08	27°00'06	retrograde	2518 Jul 27 20:35	24° Ω 49'06	
retrograde	2517 Aug 14 20:05	13° \mathcal{M} 17'07		evening set	2518 Aug 03 04:04	23° Ω 12'54	
evening set	2517 Aug 21 20:20	11° \mathcal{M} 06'44		min. Earth dist.	2518 Aug 07 09:24	20° Ω 36'29	0.58939 AU
min. Earth dist.	2517 Aug 25 12:40	8° \mathcal{M} 26'06	0.61005 AU	inferior conj	2518 Aug 10 16:12	18° Ω 10'04	-4°56'36
inferior conj	2517 Aug 28 17:01	5° \mathcal{M} 42'38	-4°25'57	minimum elong	2518 Aug 10 18:45	18° Ω 05'17	4°56'25
minimum elong	2517 Aug 28 22:09	5° \mathcal{M} 31'35	4°24'58	morning rise	2518 Aug 18 11:37	13° Ω 43'03	
morning rise	2517 Sep 05 01:44	0° \mathcal{M} 52'31		direct	2518 Aug 20 22:58	13° Ω 22'34	
direct	2517 Sep 07 11:24	0° \mathcal{M} 29'24		morning max el	2518 Aug 28 23:17	17° Ω 12'47	18°31'22
asc. node	2517 Sep 13 21:53	3° \mathcal{M} 22'17		asc. node	2518 Aug 31 18:55	20° Ω 19'42	
morning max el	2517 Sep 14 15:21	4° \mathcal{M} 02'48	18°01'13		2518 Sep 07 03:39	0° \mathcal{M}	
morning set	2517 Sep 30 11:05	29° \mathcal{M} 01'56		morning set	2518 Sep 14 02:51	12° \mathcal{M} 57'57	
	2517 Sep 30 23:38	0° \mathcal{L}		superior conj	2518 Sep 23 00:30	29° \mathcal{M} 58'25	1°33'25
superior conj	2517 Oct 10 12:27	17° \mathcal{L} 20'12	1°12'53	minimum elong	2518 Sep 23 03:34	0° \mathcal{L} 12'41	1°33'10
minimum elong	2517 Oct 10 16:50	17° \mathcal{L} 39'30	1°12'23		2518 Sep 23 00:51	0° \mathcal{L}	
	2517 Oct 17 21:34	0° \mathcal{M}		max. Earth dist.	2518 Sep 30 09:26	13° \mathcal{L} 15'05	1.40061 AU
max. Earth dist.	2517 Oct 18 02:57	0° \mathcal{M} 22'27	1.42039 AU	evening rise	2518 Oct 04 15:25	20° \mathcal{L} 29'46	
desc. node	2517 Oct 21 21:00	6° \mathcal{M} 31'55		desc. node	2518 Oct 08 17:59	27° \mathcal{L} 13'56	
evening rise	2517 Oct 23 23:08	9° \mathcal{M} 53'18			2518 Oct 10 11:34	0° \mathcal{M}	
	2517 Nov 06 03:01	0° \mathcal{X}			2518 Oct 31 07:27	0° \mathcal{X}	
evening max el	2517 Nov 25 22:14	25° \mathcal{X} 51'55	22°26'19	evening max el	2518 Nov 08 12:17	9° \mathcal{X} 27'02	23°46'15
	2517 Nov 30 20:20	0° \mathcal{Z}		retrograde	2518 Nov 19 07:17	15° \mathcal{X} 48'50	
retrograde	2517 Dec 05 14:34	1° \mathcal{Z} 37'11		evening set	2518 Nov 24 10:36	13° \mathcal{X} 40'38	
	2517 Dec 09 21:34	30° \mathcal{R} \mathcal{X}		asc. node	2518 Nov 27 18:09	10° \mathcal{X} 04'38	
evening set	2517 Dec 10 04:40	29° \mathcal{X} 45'53		inferior conj	2518 Nov 29 20:26	7° \mathcal{X} 16'33	0°42'48
asc. node	2517 Dec 10 21:06	29° \mathcal{X} 09'42		minimum elong	2518 Nov 29 19:26	7° \mathcal{X} 19'58	0°42'23
inferior conj	2517 Dec 15 13:12	23° \mathcal{X} 25'15	1°32'36	min. Earth dist.	2518 Nov 29 06:58	8° \mathcal{X} 02'25	0.67770 AU
minimum elong	2517 Dec 15 11:16	23° \mathcal{X} 31'58	1°31'51	morning rise	2518 Dec 05 04:15	1° \mathcal{X} 10'40	
min. Earth dist.	2517 Dec 15 10:27	23° \mathcal{X} 34'49	0.67871 AU		2518 Dec 07 05:55	30° \mathcal{R} \mathcal{M}	
morning rise	2517 Dec 20 17:43	17° \mathcal{X} 14'53		direct	2518 Dec 09 05:22	29° \mathcal{M} 38'24	
direct	2517 Dec 25 08:53	15° \mathcal{X} 19'50			2518 Dec 11 06:52	0° \mathcal{X}	
morning max el	2518 Jan 03 16:37	20° \mathcal{X} 48'57	22°09'20	morning max el	2518 Dec 17 10:34	4° \mathcal{X} 23'18	20°49'14
	2518 Jan 11 11:32	0° \mathcal{Z}		desc. node	2519 Jan 04 17:13	28° \mathcal{X} 45'12	
desc. node	2518 Jan 17 20:12	8° \mathcal{Z} 41'49			2519 Jan 05 13:19	0° \mathcal{Z}	
	2518 Feb 01 02:03	0° \approx		morning set	2519 Jan 16 00:31	15° \mathcal{Z} 58'16	
morning set	2518 Feb 05 19:46	7° \approx 32'13		max. Earth dist.	2519 Jan 24 13:43	29° \mathcal{Z} 33'51	1.42913 AU
max. Earth dist.	2518 Feb 11 09:08	16° \approx 41'34	1.41012 AU		2519 Jan 24 20:10	0° \approx	
superior conj	2518 Feb 19 03:46	0° \mathcal{X} 08'31	-2°02'07	superior conj	2519 Jan 31 09:24	10° \approx 50'49	-2°04'57
minimum elong	2518 Feb 19 06:28	0° \mathcal{X} 20'28	2°02'00	minimum elong	2519 Jan 31 07:47	10° \approx 43'58	2°04'55
	2518 Feb 19 01:52	0° \mathcal{X}			2519 Feb 11 10:01	0° \mathcal{X}	
evening rise	2518 Mar 01 12:25	19° \mathcal{X} 08'25		evening rise	2519 Feb 12 06:28	1° \mathcal{X} 30'55	
	2518 Mar 07 10:18	0° Υ		asc. node	2519 Feb 23 17:27	21° \mathcal{X} 05'06	
asc. node	2518 Mar 08 20:25	2° Υ 29'31		evening max el	2519 Mar 01 06:00	28° \mathcal{X} 09'21	18°07'11
evening max el	2518 Mar 17 18:39	15° Υ 05'30	18°16'16		2519 Mar 03 10:18	0° Υ	
retrograde	2518 Mar 24 20:45	18° Υ 37'49		retrograde	2519 Mar 07 19:38	1° Υ 32'59	
evening set	2518 Mar 27 08:47	18° Υ 12'18		evening set	2519 Mar 10 13:10	0° Υ 57'31	
inferior conj	2518 Apr 03 10:27	13° Υ 30'02	3°01'10		2519 Mar 12 07:19	30° \mathcal{R} \mathcal{X}	
minimum elong	2518 Apr 03 13:53	13° Υ 22'35	3°00'27	inferior conj	2519 Mar 17 00:17	25° \mathcal{X} 54'37	3°33'15

minimum elong	2519 Mar 17 01:57	25° H 50'28	3°33'05		2520 Feb 04 09:10	0° H	
min. Earth dist.	2519 Mar 20 01:33	22° H 53'14	0.61620 AU	asc. node	2520 Feb 10 14:28	9° H 00'12	
morning rise	2519 Mar 23 13:09	19° H 58'25		evening max el	2520 Feb 12 18:35	11° H 26'59	18°17'12
direct	2519 Mar 30 09:26	17° H 34'22		retrograde	2520 Feb 19 05:36	14° H 55'15	
desc. node	2519 Apr 02 16:23	18° H 04'54		evening set	2520 Feb 22 04:27	14° H 08'49	
morning max el	2519 Apr 13 13:22	25° H 30'05	27°49'05	inferior conj	2520 Feb 28 04:51	8° H 46'38	3°41'43
	2519 Apr 17 17:05	0° Y		minimum elong	2520 Feb 28 04:39	8° H 47'13	3°41'44
	2519 May 07 19:20	0° B		min. Earth dist.	2520 Mar 01 16:01	6° H 01'50	0.63598 AU
morning set	2519 May 16 16:04	17° B 01'04		morning rise	2520 Mar 05 03:59	2° H 40'59	
max. Earth dist.	2519 May 22 12:55	29° B 25'23	1.32377 AU		2520 Mar 10 22:31	30° R \approx	
asc. node	2519 May 22 16:44	29° B 46'08		direct	2520 Mar 12 01:57	29° \approx 55'42	
	2519 May 22 19:18	0° II			2520 Mar 13 05:53	0° H	
				desc. node	2520 Mar 19 13:26	2° H 33'34	
superior conj	2519 May 24 01:18	2° II 43'25	0°14'17	morning max el	2520 Mar 25 21:18	7° H 51'57	27°40'22
minimum elong	2519 May 24 00:39	2° II 39'49	0°14'08		2520 Apr 11 22:43	0° Y	
behind sun begin	2519 May 23 22:18	2° II 27'03			2520 Apr 29 00:16	0° B	
behind sun end	2519 May 24 02:59	2° II 52'36		morning set	2520 Apr 29 13:20	1° B 04'49	
evening rise	2519 May 30 22:45	17° II 41'51		max. Earth dist.	2520 May 04 17:00	11° B 39'05	1.33024 AU
	2519 Jun 06 00:11	0° B					
evening max el	2519 Jun 25 12:32	28° B 30'55	24°39'07	superior conj	2520 May 07 08:33	17° B 17'11	-0°12'47
	2519 Jun 27 03:32	0° Ω		minimum elong	2520 May 07 09:11	17° B 20'34	0°12'39
desc. node	2519 Jun 29 15:39	1° Ω 58'32		behind sun begin	2520 May 07 05:56	17° B 03'05	
retrograde	2519 Jul 09 10:41	5° Ω 33'49		behind sun end	2520 May 07 12:27	17° B 38'03	
evening set	2519 Jul 14 12:01	4° Ω 36'08		asc. node	2520 May 08 13:46	19° B 54'15	
min. Earth dist.	2519 Jul 19 23:39	1° Ω 45'22	0.57007 AU		2520 May 13 06:14	0° II	
inferior conj	2519 Jul 22 19:40	29° B 55'22	-4°57'12	evening rise	2520 May 14 10:30	2° II 30'09	
minimum elong	2519 Jul 22 17:07	29° B 59'30	4°57'01		2520 May 29 14:28	0° B	
	2519 Jul 22 16:49	30° R B		evening max el	2520 Jun 06 02:13	8° B 59'35	23°03'29
morning rise	2519 Jul 31 00:55	25° B 49'54		desc. node	2520 Jun 15 12:40	15° B 04'56	
direct	2519 Aug 02 15:57	25° B 30'45		retrograde	2520 Jun 19 12:23	15° B 41'13	
morning max el	2519 Aug 11 22:29	29° B 50'08	19°22'45	evening set	2520 Jun 23 01:24	15° B 13'42	
	2519 Aug 12 02:40	0° Ω		min. Earth dist.	2520 Jun 30 11:27	11° B 54'20	0.55556 AU
asc. node	2519 Aug 18 15:58	8° Ω 13'34		inferior conj	2520 Jul 02 03:39	10° B 55'53	-4°13'30
morning set	2519 Aug 29 03:18	27° Ω 19'37		minimum elong	2520 Jul 01 20:17	11° B 06'39	4°11'58
	2519 Aug 30 11:20	0° np		morning rise	2520 Jul 10 17:36	7° B 03'08	
				direct	2520 Jul 13 14:03	6° B 43'47	
superior conj	2519 Sep 06 05:36	13° np 27'52	1°43'32	morning max el	2520 Jul 24 10:33	11° B 45'37	20°35'17
minimum elong	2519 Sep 06 06:49	13° np 33'50	1°43'29	asc. node	2520 Aug 04 13:01	26° B 50'17	
max. Earth dist.	2519 Sep 12 13:19	25° np 27'24	1.37998 AU		2520 Aug 06 07:15	0° Ω	
	2519 Sep 15 01:32	0° B		morning set	2520 Aug 12 09:30	11° Ω 58'16	
evening rise	2519 Sep 16 07:37	2° B 13'22					
desc. node	2519 Sep 25 15:01	17° B 47'52		superior conj	2520 Aug 19 22:46	27° Ω 33'10	1°45'02
	2519 Oct 03 15:33	0° ml		minimum elong	2520 Aug 19 22:20	27° Ω 30'59	1°45'01
evening max el	2519 Oct 22 00:27	23° ml 06'06	25°03'24		2520 Aug 21 03:44	0° np	
retrograde	2519 Nov 02 20:01	29° ml 57'04		max. Earth dist.	2520 Aug 24 20:11	7° np 18'19	1.36099 AU
evening set	2519 Nov 08 13:21	27° ml 33'07		evening rise	2520 Aug 28 20:32	14° np 55'37	
min. Earth dist.	2519 Nov 13 01:37	22° ml 29'03	0.67334 AU		2520 Sep 06 10:38	0° B	
inferior conj	2519 Nov 14 01:46	21° ml 09'54	-0°11'32	desc. node	2520 Sep 11 12:02	8° B 07'52	
minimum elong	2519 Nov 14 02:03	21° ml 08'57	0°11'24		2520 Sep 27 07:12	0° ml	
transit middle	2519 Nov 14 02:03	21° ml 08'57	0°11'24	evening max el	2520 Oct 03 12:34	6° ml 46'17	26°10'34
transit begin	2519 Nov 14 00:05	21° ml 15'25		retrograde	2520 Oct 16 03:55	13° ml 55'28	
transit end	2519 Nov 14 04:01	21° ml 02'29		evening set	2520 Oct 22 11:05	11° ml 19'12	
asc. node	2519 Nov 14 15:10	20° ml 26'07		min. Earth dist.	2520 Oct 26 16:02	6° ml 50'42	0.66555 AU
morning rise	2519 Nov 19 14:56	15° ml 10'40		inferior conj	2520 Oct 28 03:20	5° ml 01'26	-1°09'09
direct	2519 Nov 23 03:37	13° ml 58'52		minimum elong	2520 Oct 28 05:10	4° ml 55'45	1°08'22
morning max el	2519 Nov 30 12:25	18° ml 09'13	19°41'33	asc. node	2520 Oct 31 12:12	1° ml 09'56	
	2519 Dec 09 20:37	0° A			2520 Nov 01 19:38	30° R B	
greatest brilliancy	2519 Dec 13 18:08	5° A 41'54	-0.7m	morning rise	2520 Nov 02 23:43	29° B 11'34	
desc. node	2519 Dec 22 14:16	19° A 06'22		direct	2520 Nov 06 02:04	28° B 16'45	
morning set	2519 Dec 25 20:50	24° A 08'58			2520 Nov 10 13:06	0° ml	
	2519 Dec 29 15:24	0° B		morning max el	2520 Nov 12 21:21	2° ml 02'56	18°49'00
max. Earth dist.	2520 Jan 07 01:19	13° B 12'36	1.44326 AU		2520 Dec 02 08:03	0° A	
				morning set	2520 Dec 04 09:44	3° A 15'43	
superior conj	2520 Jan 11 12:47	20° B 22'19	-1°50'26	desc. node	2520 Dec 08 11:21	9° A 39'51	
minimum elong	2520 Jan 11 05:38	19° B 53'30	1°49'56	max. Earth dist.	2520 Dec 19 18:05	27° A 22'36	1.45080 AU
	2520 Jan 17 10:33	0° \approx					
evening rise	2520 Jan 25 05:15	13° \approx 00'45		superior conj	2520 Dec 20 19:16	29° A 01'34	-1°16'55

minimum elong	2520 Dec 20 10:34	28°  27'24	1°15'56	evening rise	2521 Dec 16 06:46	3°  13'04	
	2520 Dec 21 10:07	0° 		greatest brilliancy	2521 Dec 28 08:45	21°  53'36	-0.7m
evening rise	2521 Jan 05 05:18	23°  33'23			2522 Jan 02 21:01	0° 	
	2521 Jan 09 05:03	0° 		evening max el	2522 Jan 09 13:36	8°  22'21	19°30'25
evening max el	2521 Jan 26 05:51	24°  52'53	18°45'24	asc. node	2522 Jan 14 08:32	12°  00'12	
asc. node	2521 Jan 27 11:29	26°  03'22		retrograde	2522 Jan 16 19:19	12°  32'50	
retrograde	2521 Feb 01 22:34	28°  37'18		evening set	2522 Jan 20 07:17	11°  21'11	
evening set	2521 Feb 05 03:23	27°  38'51		inferior conj	2522 Jan 25 19:21	5°  25'58	3°10'45
inferior conj	2521 Feb 10 20:18	21°  59'06	3°32'45	minimum elong	2522 Jan 25 16:58	5°  33'44	3°10'16
minimum elong	2521 Feb 10 18:42	22°  04'00	3°32'35	min. Earth dist.	2522 Jan 27 00:03	3°  52'15	0.66490 AU
min. Earth dist.	2521 Feb 12 15:53	19°  46'00	0.65244 AU		2522 Jan 30 06:53	30°  R 	
morning rise	2521 Feb 16 09:37	15°  48'38		morning rise	2522 Jan 31 02:26	29°  13'13	
direct	2521 Feb 23 01:35	12°  56'49		direct	2522 Feb 06 07:09	26°  28'05	
desc. node	2521 Mar 06 10:30	18°  55'16			2522 Feb 14 10:23	0° 	
morning max el	2521 Mar 08 06:57	20°  42'23	26°58'24	morning max el	2522 Feb 18 16:16	3°  49'29	25°50'57
	2521 Mar 16 07:45	0° 		desc. node	2522 Feb 21 07:34	6°  37'57	
	2521 Apr 05 01:23	0° 			2522 Mar 10 15:52	0° 	
morning set	2521 Apr 13 00:44	14°  Y35'24		morning set	2522 Mar 26 21:59	27°  Y19'37	
max. Earth dist.	2521 Apr 17 11:20	23°  Y20'56	1.34125 AU		2522 Mar 28 08:34	0° 	
	2521 Apr 20 17:10	0° 		max. Earth dist.	2522 Mar 30 18:07	4°  Y32'32	1.35690 AU
superior conj	2521 Apr 21 10:38	1°  831'00	-0°40'58	superior conj	2522 Apr 05 04:54	15°  Y16'32	-1°08'52
minimum elong	2521 Apr 21 12:44	1°  841'57	0°40'33	minimum elong	2522 Apr 05 08:23	15°  Y34'08	1°08'16
asc. node	2521 Apr 25 10:49	9°  857'50		asc. node	2522 Apr 12 07:51	29°  Y51'54	
evening rise	2521 Apr 28 20:45	17°  809'14			2522 Apr 12 09:26	0° 	
	2521 May 05 07:31	0° 		evening rise	2522 Apr 13 03:23	1°  831'49	
evening max el	2521 May 18 21:35	19°  II37'29	21°30'35		2522 Apr 30 09:00	0° 	
retrograde	2521 May 31 03:10	25°  II37'21		evening max el	2522 May 01 03:43	0°  II47'06	20°11'14
desc. node	2521 Jun 02 09:41	25°  II25'36		retrograde	2522 May 11 17:03	5°  II54'18	
evening set	2521 Jun 02 13:12	25°  II24'04		evening set	2522 May 13 17:23	5°  II43'55	
inferior conj	2521 Jun 11 22:55	21°  II23'41	-2°42'18	desc. node	2522 May 20 06:44	3°  II11'39	
minimum elong	2521 Jun 11 15:45	21°  II33'42	2°39'58	inferior conj	2522 May 22 18:40	1°  II45'08	-0°43'55
min. Earth dist.	2521 Jun 11 23:13	21°  II23'16	0.54904 AU	minimum elong	2522 May 22 16:37	1°  II48'11	0°43'09
morning rise	2521 Jun 20 19:03	17°  II27'32		min. Earth dist.	2522 May 24 11:57	0°  II44'00	0.55207 AU
direct	2521 Jun 24 01:00	17°  II04'32			2522 May 25 18:36	30°  R 	
morning max el	2521 Jul 06 11:17	22°  II56'55	22°06'13	morning rise	2522 May 31 14:18	27°  826'35	
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asc. node	2521 Jul 22 10:05	15°  859'41			2522 Jun 13 18:02	0° 	
morning set	2521 Jul 27 19:20	26°  848'06		morning max el	2522 Jun 18 03:49	3°  II33'08	23°47'59
	2521 Jul 29 07:52	0° 			2522 Jul 06 11:22	0° 	
superior conj	2521 Aug 04 00:20	12°  803'36	1°39'31	asc. node	2522 Jul 09 07:09	5°  832'37	
minimum elong	2521 Aug 03 22:43	11°  855'08	1°39'24	morning set	2522 Jul 12 06:55	11°  843'15	
max. Earth dist.	2521 Aug 07 11:20	19°  815'00	1.34528 AU	superior conj	2522 Jul 19 07:25	26°  849'56	1°28'15
evening rise	2521 Aug 12 01:36	28°  824'38		minimum elong	2522 Jul 19 05:10	26°  837'48	1°28'00
	2521 Aug 12 21:24	0° 			2522 Jul 20 18:47	0° 	
desc. node	2521 Aug 29 09:02	28°  807'22		max. Earth dist.	2522 Jul 21 11:45	1°  830'35	1.33342 AU
	2521 Aug 30 15:21	0° 		evening rise	2522 Jul 26 18:33	12°  828'06	
evening max el	2521 Sep 16 01:05	20°  820'39	26°59'59		2522 Aug 05 02:41	0° 	
retrograde	2521 Sep 29 06:14	27°  837'20		desc. node	2522 Aug 16 06:02	17°  837'46	
evening set	2521 Oct 06 01:32	24°  854'38			2522 Aug 26 00:00	0° 	
min. Earth dist.	2521 Oct 09 23:44	21°  802'26	0.65429 AU	evening max el	2522 Aug 29 12:37	3°  837'19	27°24'33
inferior conj	2521 Oct 11 23:03	18°  847'05	-2°08'20	retrograde	2522 Sep 12 02:31	10°  854'49	
minimum elong	2521 Oct 12 02:31	18°  837'07	2°06'58	evening set	2522 Sep 19 05:58	8°  814'41	
morning rise	2521 Oct 18 04:17	13°  809'40		min. Earth dist.	2522 Sep 22 22:31	4°  856'56	0.63950 AU
asc. node	2521 Oct 18 09:17	13°  803'40		inferior conj	2522 Sep 25 10:27	2°  821'33	-3°06'34
direct	2521 Oct 20 22:39	12°  828'01		minimum elong	2522 Sep 25 15:21	2°  808'48	3°04'57
morning max el	2521 Oct 27 11:16	15°  859'36	18°12'53		2522 Sep 27 19:11	30°  R 	
	2521 Nov 06 15:28	0° 		morning rise	2522 Oct 02 01:51	27°  800'08	
morning set	2521 Nov 15 03:27	13°  849'47		direct	2522 Oct 04 14:44	26°  828'05	
desc. node	2521 Nov 25 08:22	0° 		asc. node	2522 Oct 05 06:22	26°  830'14	
	2521 Nov 25 03:02	0° 		morning max el	2522 Oct 11 03:31	29°  853'36	17°53'58
superior conj	2521 Nov 29 22:05	7°  837'11	-0°30'30		2522 Oct 11 06:05	0° 	
minimum elong	2521 Nov 29 18:10	7°  821'43	0°29'58	morning set	2522 Oct 28 00:25	25°  843'21	
max. Earth dist.	2521 Dec 02 13:27	11°  846'59	1.45098 AU		2522 Oct 30 12:20	0° 	
	2521 Dec 14 05:11	0°		superior conj	2522 Nov 09 17:51	17° 806'06	0°16'50

minimum elong	2522 Nov 09 19:42	17° \mathbb{M} 13'39	0°16'35	desc. node	2523 Oct 30 02:23	11° \mathbb{M} 54'54	
desc. node	2522 Nov 12 05:23	21° \mathbb{M} 07'33		evening rise	2523 Nov 05 04:24	21° \mathbb{M} 35'31	
max. Earth dist.	2522 Nov 15 07:55	26° \mathbb{M} 06'09	1.44384 AU		2523 Nov 10 15:17	0° \mathbb{M}	
	2522 Nov 17 18:57	0° \mathbb{M}			2523 Dec 01 19:22	0° \mathbb{M}	
evening rise	2522 Nov 25 17:22	12° \mathbb{M} 21'12		evening max el	2523 Dec 06 13:11	5° \mathbb{M} 24'09	21°41'38
	2522 Dec 07 08:58	0° \mathbb{M}		retrograde	2523 Dec 15 14:32	10° \mathbb{M} 47'34	
evening max el	2522 Dec 23 16:15	21° \mathbb{M} 53'03	20°30'12	asc. node	2523 Dec 19 02:39	9° \mathbb{M} 40'20	
retrograde	2522 Dec 31 17:20	26° \mathbb{M} 37'39		evening set	2523 Dec 19 21:42	9° \mathbb{M} 05'46	
asc. node	2523 Jan 01 05:36	26° \mathbb{M} 36'12		inferior conj	2523 Dec 25 06:05	2° \mathbb{M} 48'31	1°58'41
evening set	2523 Jan 04 14:01	25° \mathbb{M} 11'33		minimum elong	2523 Dec 25 03:47	2° \mathbb{M} 56'31	1°57'52
inferior conj	2523 Jan 09 23:21	19° \mathbb{M} 03'37	2°38'44	min. Earth dist.	2523 Dec 25 09:38	2° \mathbb{M} 36'12	0.67775 AU
minimum elong	2523 Jan 09 20:46	19° \mathbb{M} 12'26	2°37'59		2523 Dec 27 07:48	30° \mathbb{M}	
min. Earth dist.	2523 Jan 10 14:44	18° \mathbb{M} 11'14	0.67325 AU	morning rise	2523 Dec 30 09:42	26° \mathbb{M} 36'22	
morning rise	2523 Jan 15 03:21	12° \mathbb{M} 50'20		direct	2524 Jan 04 09:15	24° \mathbb{M} 28'21	
direct	2523 Jan 20 17:56	10° \mathbb{M} 21'11			2524 Jan 13 23:55	0° \mathbb{M}	
morning max el	2523 Feb 01 00:49	17° \mathbb{M} 05'14	24°27'49	morning max el	2524 Jan 14 10:20	0° \mathbb{M} 25'56	22°59'05
desc. node	2523 Feb 08 04:36	25° \mathbb{M} 18'24		desc. node	2524 Jan 26 01:38	14° \mathbb{M} 39'37	
	2523 Feb 11 19:00	0° \mathbb{M}			2524 Feb 05 16:22	0° \mathbb{M}	
	2523 Mar 03 16:17	0° \mathbb{M}		morning set	2524 Feb 17 23:39	19° \mathbb{M} 29'57	
morning set	2523 Mar 08 23:42	9° \mathbb{M} 03'12		max. Earth dist.	2524 Feb 22 10:53	27° \mathbb{M} 03'23	1.39787 AU
max. Earth dist.	2523 Mar 12 15:49	15° \mathbb{M} 35'49	1.37641 AU		2524 Feb 24 03:36	0° \mathbb{M}	
superior conj	2523 Mar 19 12:08	28° \mathbb{M} 25'34	-1°34'23	superior conj	2524 Mar 01 04:08	10° \mathbb{M} 47'22	-1°54'33
minimum elong	2523 Mar 19 16:30	28° \mathbb{M} 46'37	1°33'50	minimum elong	2524 Mar 01 08:04	11° \mathbb{M} 05'24	1°54'15
	2523 Mar 20 07:39	0° \mathbb{M}		evening rise	2524 Mar 10 19:48	29° \mathbb{M} 00'30	
evening rise	2523 Mar 28 04:03	15° \mathbb{M} 31'35			2524 Mar 11 08:15	0° \mathbb{M}	
asc. node	2523 Mar 30 04:53	19° \mathbb{M} 32'12		asc. node	2524 Mar 16 01:55	8° \mathbb{M} 53'15	
	2523 Apr 04 19:33	0° \mathbb{M}		evening max el	2524 Mar 27 00:44	25° \mathbb{M} 03'07	18°30'25
evening max el	2523 Apr 13 21:30	12° \mathbb{M} 36'51	19°10'41	retrograde	2524 Apr 03 15:24	28° \mathbb{M} 47'44	
retrograde	2523 Apr 22 19:02	16° \mathbb{M} 55'49		evening set	2524 Apr 05 23:48	28° \mathbb{M} 27'27	
evening set	2523 Apr 24 21:23	16° \mathbb{M} 42'25		inferior conj	2524 Apr 13 11:34	23° \mathbb{M} 57'32	2°29'16
inferior conj	2523 May 03 04:39	12° \mathbb{M} 31'18	1°07'23	minimum elong	2524 Apr 13 15:29	23° \mathbb{M} 49'46	2°28'14
minimum elong	2523 May 03 07:16	12° \mathbb{M} 26'52	1°06'30	min. Earth dist.	2524 Apr 16 21:52	21° \mathbb{M} 15'45	0.58251 AU
min. Earth dist.	2523 May 06 02:59	10° \mathbb{M} 32'49	0.56408 AU	morning rise	2524 Apr 21 04:09	18° \mathbb{M} 32'19	
desc. node	2523 May 07 03:46	9° \mathbb{M} 53'25		desc. node	2524 Apr 23 00:47	17° \mathbb{M} 44'46	
morning rise	2523 May 11 14:06	7° \mathbb{M} 38'11		direct	2524 Apr 27 02:33	17° \mathbb{M} 01'49	
direct	2523 May 16 12:32	6° \mathbb{M} 41'37		morning max el	2524 May 11 11:54	24° \mathbb{M} 42'12	26°47'39
morning max el	2523 May 30 18:11	13° \mathbb{M} 58'55	25°27'04		2524 May 16 08:32	0° \mathbb{M}	
	2523 Jun 12 09:23	0° \mathbb{M}			2524 Jun 04 12:04	0° \mathbb{M}	
asc. node	2523 Jun 26 04:11	25° \mathbb{M} 22'22		morning set	2524 Jun 10 04:46	11° \mathbb{M} 27'53	
morning set	2523 Jun 26 18:36	26° \mathbb{M} 38'13		asc. node	2524 Jun 12 01:11	15° \mathbb{M} 23'39	
	2523 Jun 28 08:28	0° \mathbb{M}		superior conj	2524 Jun 17 05:30	26° \mathbb{M} 42'15	0°52'16
superior conj	2523 Jul 03 17:45	11° \mathbb{M} 44'52	1°12'15	minimum elong	2524 Jun 17 03:28	26° \mathbb{M} 31'04	0°51'52
minimum elong	2523 Jul 03 15:23	11° \mathbb{M} 31'51	1°11'53	max. Earth dist.	2524 Jun 17 06:43	26° \mathbb{M} 48'57	1.32177 AU
max. Earth dist.	2523 Jul 04 19:16	14° \mathbb{M} 04'18	1.32560 AU		2524 Jun 18 17:26	0° \mathbb{M}	
evening rise	2523 Jul 10 19:53	26° \mathbb{M} 55'35		evening rise	2524 Jun 24 02:53	11° \mathbb{M} 38'55	
	2523 Jul 12 07:57	0° \mathbb{M}			2524 Jul 03 12:28	0° \mathbb{M}	
	2523 Jul 29 11:42	0° \mathbb{M}		desc. node	2524 Jul 20 00:04	24° \mathbb{M} 16'23	
desc. node	2523 Aug 03 03:03	6° \mathbb{M} 26'31		evening max el	2524 Jul 23 23:22	28° \mathbb{M} 25'35	26°39'23
evening max el	2523 Aug 11 20:49	16° \mathbb{M} 22'29	27°18'34		2524 Jul 25 17:10	0° \mathbb{M}	
retrograde	2523 Aug 25 16:18	23° \mathbb{M} 38'02		retrograde	2524 Aug 06 22:31	5° \mathbb{M} 38'08	
evening set	2523 Sep 01 20:42	21° \mathbb{M} 12'35		evening set	2524 Aug 13 17:10	3° \mathbb{M} 40'57	
min. Earth dist.	2523 Sep 05 10:53	18° \mathbb{M} 22'18	0.62146 AU	min. Earth dist.	2524 Aug 17 13:05	1° \mathbb{M} 04'23	0.60121 AU
inferior conj	2523 Sep 08 10:29	15° \mathbb{M} 37'08	-3°59'56		2524 Aug 18 21:29	30° \mathbb{M}	
minimum elong	2523 Sep 08 16:00	15° \mathbb{M} 24'22	3°58'33	inferior conj	2524 Aug 20 19:47	28° \mathbb{M} 25'26	-4°41'46
morning rise	2523 Sep 15 12:53	10° \mathbb{M} 35'05		minimum elong	2524 Aug 21 00:10	28° \mathbb{M} 16'32	4°41'08
direct	2523 Sep 17 22:52	10° \mathbb{M} 09'32		morning rise	2524 Aug 28 09:11	23° \mathbb{M} 45'15	
asc. node	2523 Sep 22 03:25	11° \mathbb{M} 28'49		direct	2524 Aug 30 19:04	23° \mathbb{M} 23'38	
morning max el	2523 Sep 24 19:05	13° \mathbb{M} 37'29	17°53'09	morning max el	2524 Sep 07 06:46	27° \mathbb{M} 03'05	18°11'33
	2523 Oct 05 22:47	0° \mathbb{M}		asc. node	2524 Sep 08 00:26	27° \mathbb{M} 47'34	
morning set	2523 Oct 10 18:24	8° \mathbb{M} 36'55			2524 Sep 09 22:19	0° \mathbb{M}	
superior conj	2523 Oct 21 16:15	27° \mathbb{M} 53'52	0°55'45	morning set	2524 Sep 23 03:36	22° \mathbb{M} 14'11	
minimum elong	2523 Oct 21 20:37	28° \mathbb{M} 12'30	0°55'12		2524 Sep 27 06:34	0° \mathbb{M}	
	2523 Oct 22 21:51	0° \mathbb{M}		superior conj	2524 Oct 02 16:05	9° \mathbb{M} 56'18	1°22'57
max. Earth dist.	2523 Oct 28 22:13	10° \mathbb{M} 00'29	1.43034 AU	minimum elong	2524 Oct 02 20:03	10° \mathbb{M} 14'10	1°22'33





































































































































max. Earth dist.	2524 Oct 10 06:59	23°♄16'20	1.41224 AU	max. Earth dist.	2525 Sep 22 11:38	5°♄49'42	1.39181 AU
	2524 Oct 14 07:58	0°♄		evening rise	2525 Sep 26 10:13	12°♄41'53	
evening rise	2524 Oct 15 07:35	1°♄36'16		desc. node	2525 Oct 02 20:26	23°♄19'41	
desc. node	2524 Oct 15 23:24	2°♄40'18			2525 Oct 07 02:27	0°♄	
	2524 Nov 03 01:41	0°♄			2525 Oct 29 06:52	0°♄	
evening max el	2524 Nov 18 05:17	18°♄57'47	23°00'09	evening max el	2525 Oct 31 18:28	2°♄35'39	24°19'53
retrograde	2524 Nov 28 09:19	24°♄59'40		retrograde	2525 Nov 12 00:24	9°♄10'39	
evening set	2524 Dec 03 04:44	23°♄01'21		evening set	2525 Nov 17 09:33	6°♄55'49	
asc. node	2524 Dec 04 23:40	21°♄16'09		asc. node	2525 Nov 21 20:42	1°♄51'03	
inferior conj	2524 Dec 08 13:40	16°♄38'36	1°12'06	min. Earth dist.	2525 Nov 22 02:28	1°♄31'48	0.67626 AU
minimum elong	2524 Dec 08 12:05	16°♄44'05	1°11'29	inferior conj	2525 Nov 22 20:21	0°♄31'44	0°20'16
min. Earth dist.	2524 Dec 08 06:21	17°♄03'49	0.67871 AU	minimum elong	2525 Nov 22 19:51	0°♄33'23	0°20'04
morning rise	2524 Dec 13 19:19	10°♄29'35			2525 Nov 23 05:49	30°♄	
direct	2524 Dec 18 04:18	8°♄44'19		morning rise	2525 Nov 28 06:11	24°♄28'11	
morning max el	2524 Dec 27 00:13	13°♄54'08	21°33'49	direct	2525 Dec 02 01:52	23°♄04'46	
	2525 Jan 08 19:03	0°♄		morning max el	2525 Dec 09 21:25	27°♄33'30	20°18'40
desc. node	2525 Jan 11 22:39	4°♄30'18			2525 Dec 12 03:31	0°♄	
morning set	2525 Jan 27 18:27	28°♄33'28		desc. node	2525 Dec 29 19:42	24°♄42'31	
	2525 Jan 28 16:12	0°♄			2526 Jan 02 07:22	0°♄	
max. Earth dist.	2525 Feb 03 10:30	9°♄21'23	1.41867 AU	morning set	2526 Jan 06 16:38	6°♄44'27	
				max. Earth dist.	2526 Jan 16 18:23	22°♄36'17	1.43591 AU
superior conj	2525 Feb 10 23:49	22°♄09'38	-2°05'09		2526 Jan 21 07:46	0°♄	
minimum elong	2525 Feb 11 01:00	22°♄14'46	2°05'08				
	2525 Feb 15 10:30	0°♄		superior conj	2526 Jan 22 18:30	2°♄22'51	-2°01'09
evening rise	2525 Feb 21 22:57	11°♄49'39		minimum elong	2526 Jan 22 14:26	2°♄06'05	2°00'59
asc. node	2525 Mar 02 22:57	27°♄47'53		evening rise	2526 Feb 04 09:23	23°♄51'14	
	2525 Mar 04 07:55	0°♄			2526 Feb 07 22:04	0°♄	
evening max el	2525 Mar 10 10:08	7°♄56'20	18°10'07	asc. node	2526 Feb 17 20:00	16°♄08'11	
retrograde	2525 Mar 17 05:35	11°♄22'54		evening max el	2526 Feb 21 22:29	21°♄07'58	18°09'10
evening set	2525 Mar 19 20:02	10°♄53'20		retrograde	2526 Feb 28 09:41	24°♄31'41	
inferior conj	2525 Mar 26 15:04	6°♄02'32	3°18'04	evening set	2526 Mar 03 05:35	23°♄51'29	
minimum elong	2525 Mar 26 17:49	5°♄56'10	3°17'39	inferior conj	2526 Mar 09 11:42	18°♄40'12	3°39'17
min. Earth dist.	2525 Mar 29 22:30	3°♄01'03	0.60392 AU	minimum elong	2526 Mar 09 12:32	18°♄38'00	3°39'15
morning rise	2525 Apr 02 13:29	0°♄15'12		min. Earth dist.	2526 Mar 12 07:21	15°♄43'45	0.62500 AU
	2525 Apr 02 23:27	30°♄		morning rise	2526 Mar 15 18:19	12°♄39'34	
direct	2525 Apr 09 04:50	28°♄08'32		direct	2526 Mar 22 16:31	10°♄04'52	
desc. node	2525 Apr 09 21:49	28°♄09'56		desc. node	2526 Mar 27 18:52	11°♄18'23	
	2525 Apr 15 18:17	0°♄		morning max el	2526 Apr 05 16:58	18°♄01'00	27°49'46
morning max el	2525 Apr 23 11:31	6°♄00'41	27°37'12		2526 Apr 15 18:01	0°♄	
	2525 May 11 10:37	0°♄			2526 May 04 05:25	0°♄	
morning set	2525 May 25 11:37	26°♄05'05		morning set	2526 May 09 13:08	10°♄23'28	
	2525 May 27 08:29	0°♄		max. Earth dist.	2526 May 15 02:32	22°♄00'34	1.32605 AU
asc. node	2525 May 29 22:13	5°♄30'57		asc. node	2526 May 16 19:16	25°♄40'12	
max. Earth dist.	2525 May 31 18:23	9°♄31'44	1.32190 AU				
				superior conj	2526 May 17 02:10	26°♄17'36	0°03'03
superior conj	2525 Jun 01 16:52	11°♄35'01	0°28'57	minimum elong	2526 May 17 02:01	26°♄16'47	0°03'00
minimum elong	2525 Jun 01 15:36	11°♄28'03	0°28'40	behind sun begin	2526 May 16 20:54	25°♄49'05	
evening rise	2525 Jun 08 13:15	26°♄29'27		behind sun end	2526 May 17 07:07	26°♄44'32	
	2525 Jun 10 05:23	0°♄			2526 May 18 19:04	0°♄	
	2525 Jun 27 11:36	0°♄		evening rise	2526 May 24 01:04	11°♄20'47	
evening max el	2525 Jul 05 18:49	9°♄41'28	25°29'37		2526 Jun 02 13:42	0°♄	
desc. node	2525 Jul 06 21:05	10°♄42'12		evening max el	2526 Jun 17 08:56	20°♄20'00	23°59'00
retrograde	2525 Jul 19 18:57	16°♄49'01		desc. node	2526 Jun 23 18:06	25°♄11'57	
evening set	2525 Jul 25 14:47	15°♄29'42		retrograde	2526 Jul 01 03:20	27°♄15'20	
min. Earth dist.	2525 Jul 30 06:54	12°♄48'57	0.58079 AU	evening set	2526 Jul 05 13:21	26°♄32'15	
inferior conj	2525 Aug 02 10:49	10°♄36'00	-5°01'28	min. Earth dist.	2526 Jul 11 19:31	23°♄30'58	0.56318 AU
minimum elong	2525 Aug 02 11:27	10°♄34'54	5°01'28	inferior conj	2526 Jul 14 05:39	22°♄01'46	-4°44'40
morning rise	2525 Aug 10 10:30	6°♄18'18		minimum elong	2526 Jul 14 00:43	22°♄09'23	4°44'03
direct	2525 Aug 12 23:06	5°♄58'34		morning rise	2526 Jul 22 14:43	18°♄03'05	
morning max el	2525 Aug 21 11:17	10°♄00'06	18°50'34	direct	2526 Jul 25 08:06	17°♄43'54	
asc. node	2525 Aug 25 21:27	15°♄10'32		morning max el	2526 Aug 04 05:48	22°♄19'39	19°51'04
	2525 Sep 03 16:29	0°♄			2526 Aug 10 14:02	0°♄	
morning set	2525 Sep 06 23:28	6°♄22'08		asc. node	2526 Aug 12 18:30	3°♄23'52	
				morning set	2526 Aug 22 02:38	20°♄51'49	
superior conj	2525 Sep 15 12:00	22°♄57'48	1°38'52		2526 Aug 26 14:30	0°♄	
minimum elong	2525 Sep 15 14:17	23°♄08'42	1°38'43				
	2525 Sep 19 06:17	0°♄		superior conj	2526 Aug 29 22:41	6°♄43'33	1°45'07

minimum elong	2526 Aug 29 23:09	6° \mathbb{M} 45'54	1°45'06	superior conj	2527 Aug 13 19:51	21° \mathbb{Q} 01'19	1°43'28
max. Earth dist.	2526 Sep 04 16:27	17° \mathbb{M} 51'20	1.37162 AU	minimum elong	2527 Aug 13 18:51	20° \mathbb{Q} 56'11	1°43'26
evening rise	2526 Sep 08 11:41	24° \mathbb{M} 51'18		max. Earth dist.	2527 Aug 18 02:36	29° \mathbb{Q} 43'07	1.35379 AU
	2526 Sep 11 09:26	0° \mathbb{L}			2527 Aug 18 06:00	0° \mathbb{M}	
desc. node	2526 Sep 19 17:27	13° \mathbb{L} 48'25		evening rise	2527 Aug 22 08:01	7° \mathbb{M} 55'05	
	2526 Sep 30 17:05	0° \mathbb{M}			2527 Sep 04 00:47	0° \mathbb{L}	
evening max el	2526 Oct 14 06:37	16° \mathbb{M} 16'11	25°33'44	desc. node	2527 Sep 06 14:28	4° \mathbb{L} 01'05	
retrograde	2526 Oct 26 10:59	23° \mathbb{M} 15'30			2527 Sep 26 20:56	0° \mathbb{M}	
evening set	2526 Nov 01 10:24	20° \mathbb{M} 45'46		evening max el	2527 Sep 26 18:47	29° \mathbb{L} 54'51	26°34'10
min. Earth dist.	2526 Nov 05 19:31	15° \mathbb{M} 56'52	0.67045 AU	retrograde	2527 Oct 09 16:32	7° \mathbb{M} 08'32	
inferior conj	2526 Nov 07 00:19	14° \mathbb{M} 24'37	-0°35'39	evening set	2527 Oct 16 05:21	4° \mathbb{M} 28'16	
minimum elong	2526 Nov 07 01:14	14° \mathbb{M} 21'39	0°35'14	min. Earth dist.	2527 Oct 20 07:14	0° \mathbb{M} 15'35	0.66119 AU
asc. node	2526 Nov 08 17:45	12° \mathbb{M} 14'57			2527 Oct 20 12:30	30° \mathbb{R} \mathbb{L}	
morning rise	2526 Nov 12 16:20	8° \mathbb{M} 29'10		inferior conj	2527 Oct 21 23:39	28° \mathbb{L} 14'24	-1°34'09
direct	2526 Nov 16 00:28	7° \mathbb{M} 24'55		minimum elong	2527 Oct 22 02:11	28° \mathbb{L} 06'47	1°33'07
morning max el	2526 Nov 23 02:28	11° \mathbb{M} 23'17	19°17'20	asc. node	2527 Oct 26 14:47	23° \mathbb{L} 24'18	
	2526 Dec 06 20:37	0° \mathbb{X}		morning rise	2527 Oct 27 23:38	22° \mathbb{L} 29'44	
greatest brilliancy	2526 Dec 07 13:14	1° \mathbb{X} 03'13	-0.7m	direct	2527 Oct 30 22:17	21° \mathbb{L} 41'04	
morning set	2526 Dec 16 17:29	15° \mathbb{X} 12'34		morning max el	2527 Nov 06 13:55	25° \mathbb{L} 19'47	18°31'41
desc. node	2526 Dec 16 16:44	15° \mathbb{X} 09'38			2527 Nov 10 12:54	0° \mathbb{M}	
	2526 Dec 26 05:10	0° \mathbb{Z}		morning set	2527 Nov 26 18:09	24° \mathbb{M} 55'53	
max. Earth dist.	2526 Dec 30 09:14	6° \mathbb{Z} 33'28	1.44737 AU	desc. node	2527 Nov 29 22:21	0° \mathbb{X}	
					2527 Dec 03 13:47	5° \mathbb{X} 47'20	
superior conj	2527 Jan 02 11:38	11° \mathbb{Z} 28'08	-1°38'24	superior conj	2527 Dec 12 13:52	19° \mathbb{X} 58'33	-0°58'08
minimum elong	2527 Jan 02 03:00	10° \mathbb{Z} 53'50	1°37'37	minimum elong	2527 Dec 12 06:38	19° \mathbb{X} 30'10	0°57'15
	2527 Jan 13 22:43	0° \mathbb{A}		max. Earth dist.	2527 Dec 13 03:34	20° \mathbb{X} 52'21	1.45177 AU
evening rise	2527 Jan 16 22:51	4° \mathbb{A} 57'39			2527 Dec 18 23:07	0° \mathbb{Z}	
	2527 Feb 01 16:42	0° \mathbb{H}		evening rise	2527 Dec 28 13:01	15° \mathbb{Z} 07'02	
asc. node	2527 Feb 04 17:03	3° \mathbb{H} 43'06		greatest brilliancy	2528 Jan 06 17:58	29° \mathbb{Z} 41'18	-0.8m
evening max el	2527 Feb 05 10:49	4° \mathbb{H} 29'57	18°26'56		2528 Jan 06 22:45	0° \mathbb{A}	
retrograde	2527 Feb 11 23:12	8° \mathbb{H} 03'45		evening max el	2528 Jan 19 20:45	17° \mathbb{A} 57'32	19°02'28
evening set	2527 Feb 15 00:32	7° \mathbb{H} 12'12		asc. node	2528 Jan 22 14:06	20° \mathbb{A} 20'02	
inferior conj	2527 Feb 20 21:22	1° \mathbb{H} 42'00	3°39'44	retrograde	2528 Jan 26 18:17	21° \mathbb{A} 52'20	
minimum elong	2527 Feb 20 20:30	1° \mathbb{H} 44'31	3°39'41	evening set	2528 Jan 30 01:53	20° \mathbb{A} 48'30	
	2527 Feb 22 08:15	30° \mathbb{R} \mathbb{A}		inferior conj	2528 Feb 04 16:26	15° \mathbb{A} 01'39	3°24'49
min. Earth dist.	2527 Feb 23 01:47	29° \mathbb{A} 09'38	0.64348 AU	minimum elong	2528 Feb 04 14:26	15° \mathbb{A} 07'58	3°24'30
morning rise	2527 Feb 26 15:52	25° \mathbb{A} 33'52		min. Earth dist.	2528 Feb 06 05:30	13° \mathbb{A} 04'44	0.65824 AU
direct	2527 Mar 05 11:58	22° \mathbb{A} 44'27		morning rise	2528 Feb 10 02:40	8° \mathbb{A} 49'40	
desc. node	2527 Mar 14 15:55	26° \mathbb{A} 39'38		direct	2528 Feb 16 14:10	5° \mathbb{A} 59'23	
	2527 Mar 18 11:08	0° \mathbb{H}		morning max el	2528 Feb 29 12:05	13° \mathbb{A} 37'01	26°32'15
morning max el	2527 Mar 19 02:07	0° \mathbb{H} 37'03	27°26'12	desc. node	2528 Feb 29 12:59	13° \mathbb{A} 39'18	
	2527 Apr 09 18:59	0° \mathbb{Y}			2528 Mar 13 19:03	0° \mathbb{H}	
morning set	2527 Apr 23 06:38	24° \mathbb{Y} 14'18			2528 Apr 01 11:34	0° \mathbb{Y}	
	2527 Apr 26 03:51	0° \mathbb{B}		morning set	2528 Apr 05 12:38	7° \mathbb{Y} 27'16	
max. Earth dist.	2527 Apr 28 03:07	4° \mathbb{B} 02'31	1.33443 AU	max. Earth dist.	2528 Apr 09 16:41	15° \mathbb{Y} 30'53	1.34736 AU
superior conj	2527 May 01 07:28	10° \mathbb{B} 43'28	-0°24'41	superior conj	2528 Apr 14 06:34	24° \mathbb{Y} 46'12	-0°52'58
minimum elong	2527 May 01 08:43	10° \mathbb{B} 50'04	0°24'25	minimum elong	2528 Apr 14 09:17	25° \mathbb{Y} 00'12	0°52'26
asc. node	2527 May 03 16:20	15° \mathbb{B} 47'02			2528 Apr 16 19:02	0° \mathbb{B}	
evening rise	2527 May 08 12:26	26° \mathbb{B} 06'04		asc. node	2528 Apr 19 13:24	5° \mathbb{B} 47'13	
	2527 May 10 09:22	0° \mathbb{I}		evening rise	2528 Apr 21 21:25	10° \mathbb{B} 39'02	
	2527 May 29 04:42	0° \mathbb{G}			2528 May 02 02:48	0° \mathbb{I}	
evening max el	2527 May 29 23:58	0° \mathbb{G} 48'07	22°22'44	evening max el	2528 May 10 23:25	11° \mathbb{I} 37'19	20°54'41
desc. node	2527 Jun 10 15:07	7° \mathbb{G} 10'22		retrograde	2528 May 22 13:06	17° \mathbb{I} 15'50	
retrograde	2527 Jun 11 23:47	7° \mathbb{G} 14'37		evening set	2528 May 24 16:40	17° \mathbb{I} 04'53	
evening set	2527 Jun 14 23:36	6° \mathbb{G} 54'49		desc. node	2528 May 27 12:09	16° \mathbb{I} 20'06	
min. Earth dist.	2527 Jun 23 06:43	3° \mathbb{G} 19'45	0.55167 AU	inferior conj	2528 Jun 03 00:31	13° \mathbb{I} 07'03	-1°53'24
inferior conj	2527 Jun 24 06:53	2° \mathbb{G} 45'35	-3°40'00	minimum elong	2528 Jun 02 19:12	13° \mathbb{I} 14'35	1°51'30
minimum elong	2527 Jun 23 22:48	2° \mathbb{G} 57'01	3°37'51	min. Earth dist.	2528 Jun 03 18:59	12° \mathbb{I} 40'49	0.54906 AU
	2527 Jun 29 15:30	30° \mathbb{R} \mathbb{I}		morning rise	2528 Jun 11 21:30	9° \mathbb{I} 03'22	
morning rise	2527 Jul 03 00:02	28° \mathbb{I} 54'14		direct	2528 Jun 15 09:12	8° \mathbb{I} 37'08	
direct	2527 Jul 05 23:53	28° \mathbb{I} 33'58		morning max el	2528 Jun 28 09:43	14° \mathbb{I} 51'24	22°48'58
	2527 Jul 11 23:13	0° \mathbb{G}			2528 Jul 10 02:23	0° \mathbb{G}	
morning max el	2527 Jul 17 12:54	3° \mathbb{G} 56'11	21°12'10	asc. node	2528 Jul 16 12:38	11° \mathbb{G} 36'14	
asc. node	2527 Jul 30 15:34	22° \mathbb{G} 15'51		morning set	2528 Jul 20 21:24	20° \mathbb{G} 29'19	
	2527 Aug 03 16:32	0° \mathbb{Q}			2528 Jul 25 08:33	0° \mathbb{Q}	
morning set	2527 Aug 06 10:39	5° \mathbb{Q} 36'26					

superior conj	2528 Jul 28 00:04	5°♎39'55	1°35'23		2529 Jun 14 09:03	0°♊	
minimum elong	2528 Jul 27 22:08	5°♎29'34	1°35'13		2529 Jul 02 18:33	0°♊	
max. Earth dist.	2528 Jul 30 21:27	11°♎45'47	1.33965 AU	asc. node	2529 Jul 03 09:41	1°♊17'25	
evening rise	2528 Aug 04 18:36	21°♎40'16		morning set	2529 Jul 05 09:13	5°♊25'12	
	2528 Aug 09 03:09	0°♎					
desc. node	2528 Aug 23 11:28	23°♎49'43		superior conj	2529 Jul 12 08:49	20°♊31'10	1°22'00
	2528 Aug 27 20:17	0°♎		minimum elong	2529 Jul 12 06:27	20°♊18'19	1°21'42
evening max el	2528 Sep 08 06:52	13°♎22'36	27°13'51	max. Earth dist.	2529 Jul 14 01:06	24°♊09'23	1.32962 AU
retrograde	2528 Sep 21 16:35	20°♎41'14			2529 Jul 16 18:51	0°♎	
evening set	2528 Sep 28 15:56	17°♎58'07		evening rise	2529 Jul 19 15:31	5°♎55'42	
min. Earth dist.	2528 Oct 02 11:22	14°♎21'06	0.64838 AU		2529 Aug 01 17:11	0°♎	
inferior conj	2528 Oct 04 16:07	11°♎55'55	-2°33'20	desc. node	2529 Aug 10 08:28	13°♎04'11	
minimum elong	2528 Oct 04 20:16	11°♎44'32	2°31'49	evening max el	2529 Aug 21 17:24	26°♎27'52	27°26'01
morning rise	2528 Oct 11 01:34	6°♎25'04			2529 Aug 25 22:09	0°♎	
asc. node	2528 Oct 12 11:50	5°♎56'01		retrograde	2529 Sep 04 10:17	3°♎44'50	
direct	2528 Oct 13 17:11	5°♎48'05		evening set	2529 Sep 11 15:00	1°♎09'36	
morning max el	2528 Oct 20 05:12	9°♎16'21	18°02'41		2529 Sep 13 02:51	30°♎	
	2528 Nov 03 08:31	0°♎		min. Earth dist.	2529 Sep 15 06:02	28°♎04'24	0.63217 AU
morning set	2528 Nov 06 24:00	6°♎05'20		inferior conj	2529 Sep 17 23:04	25°♎23'23	-3°30'10
desc. node	2528 Nov 19 10:48	26°♎31'15		minimum elong	2529 Sep 18 04:22	25°♎10'13	3°28'33
				morning rise	2529 Sep 24 19:05	20°♎09'32	
superior conj	2528 Nov 20 21:49	28°♎51'30	-0°09'52	direct	2529 Sep 27 06:18	19°♎40'40	
minimum elong	2528 Nov 20 20:36	28°♎46'38	0°09'43	asc. node	2529 Sep 29 08:53	20°♎02'13	
behind sun begin	2528 Nov 20 12:01	28°♎12'18		morning max el	2529 Oct 03 21:27	23°♎06'32	17°51'15
behind sun end	2528 Nov 21 05:12	29°♎20'55			2529 Oct 09 07:36	0°♎	
	2528 Nov 21 15:00	0°♎		morning set	2529 Oct 20 06:39	18°♎26'29	
max. Earth dist.	2528 Nov 24 22:16	5°♎14'17	1.44874 AU		2529 Oct 26 22:20	0°♎	
evening rise	2528 Dec 07 06:33	24°♎28'55					
	2528 Dec 10 20:30	0°♎		superior conj	2529 Nov 01 04:24	8°♎52'13	0°34'42
greatest brilliancy	2528 Dec 21 02:38	15°♎34'10	-0.6m	minimum elong	2529 Nov 01 07:46	9°♎06'12	0°34'14
	2528 Dec 31 17:59	0°♎		desc. node	2529 Nov 06 07:47	17°♎18'08	
evening max el	2529 Jan 02 02:25	1°♎27'44	19°54'14	max. Earth dist.	2529 Nov 07 14:58	19°♎23'46	1.43880 AU
asc. node	2529 Jan 08 11:07	5°♎44'19			2529 Nov 14 07:55	0°♎	
retrograde	2529 Jan 09 15:52	5°♎52'13		evening rise	2529 Nov 16 15:05	3°♎33'54	
evening set	2529 Jan 13 07:12	4°♎34'49			2529 Dec 04 08:34	0°♎	
	2529 Jan 17 15:48	30°♎		evening max el	2529 Dec 16 02:40	14°♎58'42	20°59'32
inferior conj	2529 Jan 18 17:54	28°♎33'56	2°58'18	retrograde	2529 Dec 24 13:36	19°♎59'11	
minimum elong	2529 Jan 18 15:22	28°♎42'23	2°57'40	asc. node	2529 Dec 26 08:09	19°♎41'45	
min. Earth dist.	2529 Jan 19 16:50	27°♎17'27	0.66890 AU	evening set	2529 Dec 28 14:31	18°♎26'39	
morning rise	2529 Jan 23 23:17	22°♎20'33		inferior conj	2530 Jan 02 23:16	12°♎14'38	2°22'37
direct	2529 Jan 29 22:13	19°♎41'02		minimum elong	2530 Jan 02 20:44	12°♎23'19	2°21'49
morning max el	2529 Feb 10 20:59	26°♎48'50	25°16'53	min. Earth dist.	2530 Jan 03 09:32	11°♎39'19	0.67561 AU
	2529 Feb 13 20:16	0°♎		morning rise	2530 Jan 08 02:47	6°♎01'41	
desc. node	2529 Feb 15 10:02	1°♎49'15		direct	2530 Jan 13 11:07	3°♎40'50	
	2529 Mar 07 09:55	0°♎		morning max el	2530 Jan 24 05:18	10°♎05'32	23°50'11
morning set	2529 Mar 19 02:24	19°♎48'50		desc. node	2530 Feb 02 07:03	20°♎48'30	
max. Earth dist.	2529 Mar 22 18:44	26°♎34'34	1.36474 AU		2530 Feb 08 23:34	0°♎	
	2529 Mar 24 14:12	0°♎			2530 Feb 28 03:30	0°♎	
superior conj	2529 Mar 28 20:39	8°♎18'15	-1°20'08	morning set	2530 Feb 28 17:50	1°♎01'10	
minimum elong	2529 Mar 29 00:36	8°♎37'52	1°19'31	max. Earth dist.	2530 Mar 04 14:04	7°♎42'55	1.38543 AU
evening rise	2529 Apr 06 01:52	24°♎53'21					
asc. node	2529 Apr 06 10:26	25°♎36'35		superior conj	2530 Mar 11 21:59	21°♎08'52	-1°43'48
	2529 Apr 08 15:14	0°♎		minimum elong	2530 Mar 12 02:22	21°♎29'39	1°43'21
evening max el	2529 Apr 23 10:49	23°♎05'22	19°43'07		2530 Mar 16 12:35	0°♎	
retrograde	2529 May 03 06:33	27°♎50'25		evening rise	2530 Mar 20 23:06	8°♎40'52	
evening set	2529 May 05 06:46	27°♎39'23		asc. node	2530 Mar 24 07:28	15°♎09'25	
inferior conj	2529 May 14 01:06	23°♎37'08	0°05'53		2530 Apr 02 00:44	0°♎	
minimum elong	2529 May 14 01:22	23°♎36'44	0°05'47	evening max el	2530 Apr 06 09:04	5°♎12'00	18°51'07
transit middle	2529 May 14 01:22	23°♎36'44	0°05'47	retrograde	2530 Apr 14 15:48	9°♎13'55	
transit begin	2529 May 13 21:41	23°♎42'27		evening set	2530 Apr 16 20:48	8°♎57'51	
transit end	2529 May 14 05:02	23°♎31'00		inferior conj	2530 Apr 24 19:37	4°♎39'11	1°46'13
desc. node	2529 May 14 09:11	23°♎24'30		minimum elong	2530 Apr 24 23:11	4°♎32'43	1°45'06
min. Earth dist.	2529 May 16 08:57	22°♎10'21	0.55618 AU	min. Earth dist.	2530 Apr 28 01:09	2°♎20'06	0.57140 AU
morning rise	2529 May 22 17:29	19°♎04'12		desc. node	2530 May 01 06:14	0°♎20'25	
direct	2529 May 27 01:54	18°♎22'03			2530 May 01 22:03	30°♎	
morning max el	2529 Jun 10 00:35	25°♎20'35	24°31'15	morning rise	2530 May 02 22:27	29°♎31'54	
				direct	2530 May 08 07:50	28°♎21'47	

	2530 May 14 18:57	0°♄		morning max el	2531 May 04 11:43	16°♄46'14	27°13'05
morning max el	2530 May 22 15:35	5°♄49'43	26°04'21		2531 May 15 09:00	0°♄	
	2530 Jun 09 08:09	0°♄			2531 Jun 01 18:23	0°♄	
morning set	2530 Jun 19 20:28	20°♄18'22		morning set	2531 Jun 04 05:28	5°♄03'24	
asc. node	2530 Jun 20 06:43	21°♄12'36		asc. node	2531 Jun 07 03:45	11°♄16'51	
	2530 Jun 24 08:19	0°♄					
superior conj	2530 Jun 26 19:58	5°♄27'38	1°04'13	superior conj	2531 Jun 11 07:45	20°♄23'23	0°42'45
minimum elong	2530 Jun 26 17:41	5°♄15'04	1°03'49	minimum elong	2531 Jun 11 05:59	20°♄13'42	0°42'22
max. Earth dist.	2530 Jun 27 10:51	6°♄49'25	1.32358 AU	max. Earth dist.	2531 Jun 10 23:04	19°♄35'35	1.32141 AU
evening rise	2530 Jul 03 19:36	20°♄31'00		evening rise	2531 Jun 15 16:56	0°♄	
	2530 Jul 08 12:37	0°♄			2531 Jun 18 04:18	5°♄18'03	
	2530 Jul 27 01:00	0°♄			2531 Jul 01 05:44	0°♄	
desc. node	2530 Jul 28 05:29	1°♄30'17		desc. node	2531 Jul 15 02:32	18°♄47'42	
evening max el	2530 Aug 03 23:43	8°♄57'02	27°05'58	evening max el	2531 Jul 16 23:14	20°♄39'26	26°12'55
retrograde	2530 Aug 17 20:46	16°♄10'24		retrograde	2531 Jul 30 22:49	27°♄49'57	
evening set	2530 Aug 24 22:31	13°♄55'45		evening set	2531 Aug 06 09:42	26°♄07'56	
min. Earth dist.	2530 Aug 28 14:01	11°♄13'09	0.61306 AU	min. Earth dist.	2531 Aug 10 11:59	23°♄32'12	0.59242 AU
inferior conj	2530 Aug 31 17:18	8°♄28'46	-4°19'39	inferior conj	2531 Aug 13 19:12	21°♄01'51	-4°53'38
minimum elong	2530 Aug 31 22:36	8°♄17'08	4°18'32	minimum elong	2531 Aug 13 22:20	20°♄55'52	4°53'20
morning rise	2530 Sep 08 00:23	3°♄35'28		morning rise	2531 Aug 21 13:06	16°♄31'32	
direct	2530 Sep 10 10:06	3°♄11'44		direct	2531 Aug 23 24:00	16°♄10'49	
asc. node	2530 Sep 16 05:55	5°♄36'32		morning max el	2531 Aug 31 20:44	19°♄57'48	18°25'38
morning max el	2530 Sep 17 11:41	6°♄43'20	17°58'30	asc. node	2531 Sep 03 02:58	22°♄24'17	
	2530 Oct 02 09:50	0°♄			2531 Sep 08 09:32	0°♄	
morning set	2530 Oct 03 07:48	1°♄40'54		morning set	2531 Sep 16 22:02	15°♄32'32	
					2531 Sep 24 12:09	0°♄	
superior conj	2530 Oct 13 14:08	20°♄13'12	1°08'46	superior conj	2531 Sep 25 23:15	2°♄43'00	1°31'00
minimum elong	2530 Oct 13 18:35	20°♄32'39	1°08'14	minimum elong	2531 Sep 26 02:35	2°♄58'21	1°30'43
	2530 Oct 19 07:03	0°♄		max. Earth dist.	2531 Oct 03 10:33	16°♄04'06	1.40365 AU
max. Earth dist.	2530 Oct 21 03:29	3°♄05'08	1.42312 AU	evening rise	2531 Oct 07 20:20	23°♄31'39	
desc. node	2530 Oct 24 04:47	8°♄05'08		desc. node	2531 Oct 11 01:49	28°♄48'21	
evening rise	2530 Oct 27 07:33	13°♄04'38			2531 Oct 11 19:40	0°♄	
	2530 Nov 07 08:32	0°♄			2531 Nov 01 06:42	0°♄	
evening max el	2530 Nov 28 21:30	28°♄31'12	22°14'31	evening max el	2531 Nov 11 11:59	12°♄05'54	23°34'15
	2530 Nov 30 10:15	0°♄		retrograde	2531 Nov 22 03:11	18°♄22'56	
retrograde	2530 Dec 08 09:49	4°♄10'43		evening set	2531 Nov 27 04:25	16°♄17'12	
evening set	2530 Dec 12 22:07	2°♄21'49		asc. node	2531 Nov 30 02:13	13°♄11'51	
asc. node	2530 Dec 13 05:11	2°♄06'57		min. Earth dist.	2531 Dec 02 02:04	10°♄33'58	0.67809 AU
	2530 Dec 15 06:17	30°♄		inferior conj	2531 Dec 02 13:58	9°♄53'15	0°50'41
inferior conj	2530 Dec 18 06:34	26°♄01'54	1°39'38	minimum elong	2531 Dec 02 12:48	9°♄57'14	0°50'12
minimum elong	2530 Dec 18 04:31	26°♄09'01	1°38'53	morning rise	2531 Dec 07 21:10	3°♄46'28	
min. Earth dist.	2530 Dec 18 05:23	26°♄06'00	0.67861 AU	direct	2531 Dec 12 00:14	2°♄10'58	
morning rise	2530 Dec 23 10:47	19°♄51'07		morning max el	2531 Dec 20 09:09	7°♄02'08	21°00'23
direct	2530 Dec 28 04:06	17°♄52'46			2532 Jan 06 18:39	0°♄	
morning max el	2531 Jan 06 16:13	23°♄28'58	22°22'01	desc. node	2532 Jan 07 01:05	0°♄23'43	
	2531 Jan 12 09:24	0°♄		morning set	2532 Jan 19 13:19	19°♄26'01	
desc. node	2531 Jan 20 04:03	10°♄23'24			2532 Jan 26 04:45	0°♄	
	2531 Feb 02 09:20	0°♄		max. Earth dist.	2532 Jan 27 14:08	2°♄15'33	1.42657 AU
morning set	2531 Feb 09 05:19	10°♄51'27					
max. Earth dist.	2531 Feb 14 10:55	19°♄32'11	1.40703 AU	superior conj	2532 Feb 03 15:24	13°♄59'42	-2°05'33
	2531 Feb 20 12:03	0°♄		minimum elong	2532 Feb 03 14:34	13°♄56'14	2°05'32
					2532 Feb 12 19:34	0°♄	
superior conj	2531 Feb 22 05:59	3°♄06'49	-2°00'29	evening rise	2532 Feb 15 06:33	4°♄23'44	
minimum elong	2531 Feb 22 09:05	3°♄20'43	2°00'21	asc. node	2532 Feb 26 01:32	23°♄00'59	
evening rise	2531 Mar 04 09:58	21°♄54'00			2532 Mar 02 06:19	0°♄	
	2531 Mar 08 18:29	0°♄		evening max el	2532 Mar 03 02:13	0°♄51'42	18°07'21
asc. node	2531 Mar 11 04:29	4°♄20'02		retrograde	2532 Mar 09 17:07	4°♄15'44	
evening max el	2531 Mar 20 15:17	17°♄50'22	18°19'18	evening set	2532 Mar 12 09:48	3°♄41'54	
retrograde	2531 Mar 27 20:19	21°♄25'31			2532 Mar 17 14:24	30°♄	
evening set	2531 Mar 30 07:24	21°♄01'26		inferior conj	2532 Mar 18 22:51	28°♄42'12	3°30'02
inferior conj	2531 Apr 06 11:34	16°♄22'15	2°53'45	minimum elong	2532 Mar 19 00:49	28°♄37'24	3°29'49
minimum elong	2531 Apr 06 15:11	16°♄14'34	2°52'58	min. Earth dist.	2532 Mar 22 01:58	25°♄39'54	0.61301 AU
min. Earth dist.	2531 Apr 09 21:55	13°♄29'17	0.59150 AU	morning rise	2532 Mar 25 14:05	22°♄47'55	
morning rise	2531 Apr 13 20:20	10°♄46'25		direct	2532 Apr 01 09:21	20°♄28'00	
desc. node	2531 Apr 18 03:16	9°♄11'07		desc. node	2532 Apr 04 00:18	20°♄47'23	
direct	2531 Apr 20 02:55	9°♄00'31		morning max el	2532 Apr 15 14:16	28°♄23'28	27°47'17

	2532 Apr 17 03:52	0°♿		min. Earth dist.	2533 Mar 04 14:59	8°♿42'09	0.63323 AU
	2532 May 08 03:48	0°♿		morning rise	2533 Mar 08 02:26	5°♿26'09	
morning set	2532 May 18 10:24	19°♿34'08		direct	2533 Mar 15 00:47	2°♿43'01	
	2532 May 23 08:58	0°♿		desc. node	2533 Mar 21 21:21	4°♿56'02	
asc. node	2532 May 24 00:49	1°♿25'47		morning max el	2533 Mar 28 21:33	10°♿39'40	27°43'56
max. Earth dist.	2532 May 24 09:48	2°♿14'38	1.32311 AU		2533 Apr 13 02:24	0°♿	
					2533 Apr 30 11:58	0°♿	
superior conj	2532 May 25 18:29	5°♿12'53	0°18'15	morning set	2533 May 02 08:50	3°♿41'45	
minimum elong	2532 May 25 17:39	5°♿08'21	0°18'03	max. Earth dist.	2533 May 07 14:57	14°♿31'56	1.32897 AU
evening rise	2532 Jun 01 15:32	20°♿09'55					
	2532 Jun 06 10:31	0°♿		superior conj	2533 May 10 02:19	19°♿49'00	-0°08'35
	2532 Jun 26 01:07	0°♿		minimum elong	2533 May 10 02:44	19°♿51'15	0°08'29
evening max el	2532 Jun 27 15:45	1°♿37'01	24°52'46	behind sun begin	2533 May 09 22:14	19°♿27'01	
desc. node	2532 Jun 30 23:34	4°♿29'04		behind sun end	2533 May 10 07:14	20°♿15'30	
retrograde	2532 Jul 11 14:48	8°♿41'44		asc. node	2533 May 10 21:51	21°♿34'21	
evening set	2532 Jul 16 21:13	7°♿38'33			2533 May 14 19:23	0°♿	
min. Earth dist.	2532 Jul 22 03:10	4°♿50'50	0.57272 AU	evening rise	2533 May 17 03:20	4°♿59'00	
inferior conj	2532 Jul 25 01:46	2°♿54'16	-4°59'42		2533 May 30 13:56	0°♿	
minimum elong	2532 Jul 25 00:05	2°♿57'03	4°59'38	evening max el	2533 Jun 09 05:21	12°♿07'20	23°17'59
	2532 Jul 29 22:05	30°♿		desc. node	2533 Jun 17 20:36	17°♿58'27	
morning rise	2532 Aug 02 05:36	28°♿45'50		retrograde	2533 Jun 22 18:15	18°♿53'06	
direct	2532 Aug 04 19:53	28°♿26'37		evening set	2533 Jun 26 12:29	18°♿22'08	
	2532 Aug 10 08:12	0°♿		min. Earth dist.	2533 Jul 03 15:09	15°♿07'51	0.55730 AU
morning max el	2532 Aug 13 21:28	2°♿41'01	19°13'42	inferior conj	2533 Jul 05 12:27	14°♿01'12	-4°23'24
asc. node	2532 Aug 20 00:01	10°♿10'41		minimum elong	2533 Jul 05 05:34	14°♿11'22	4°22'06
morning set	2532 Aug 30 21:23	29°♿50'52		morning rise	2533 Jul 14 01:09	10°♿07'15	
	2532 Aug 30 23:13	0°♿		direct	2533 Jul 16 20:45	9°♿47'59	
				morning max el	2533 Jul 27 11:14	14°♿42'53	20°23'08
superior conj	2532 Sep 08 02:08	16°♿05'41	1°42'34	asc. node	2533 Aug 06 21:05	28°♿41'42	
minimum elong	2532 Sep 08 03:38	16°♿12'58	1°42'30		2533 Aug 07 15:05	0°♿	
max. Earth dist.	2532 Sep 14 14:15	28°♿20'25	1.38303 AU	morning set	2533 Aug 15 02:52	14°♿27'19	
	2532 Sep 15 12:14	0°♿					
evening rise	2532 Sep 18 09:06	5°♿05'35		superior conj	2533 Aug 22 17:44	0°♿06'09	1°45'16
desc. node	2532 Sep 26 22:52	19°♿23'51		minimum elong	2533 Aug 22 17:31	0°♿05'07	1°45'16
	2532 Oct 03 20:30	0°♿			2533 Aug 22 16:31	0°♿	
evening max el	2532 Oct 24 00:20	25°♿44'31	24°52'22	max. Earth dist.	2533 Aug 27 20:23	10°♿13'13	1.36368 AU
	2532 Oct 29 00:39	0°♿		evening rise	2533 Aug 31 19:12	17°♿39'43	
retrograde	2532 Nov 04 16:38	2°♿31'54			2533 Sep 07 19:20	0°♿	
evening set	2532 Nov 10 07:47	0°♿10'17		desc. node	2533 Sep 13 19:55	9°♿46'22	
	2532 Nov 10 12:31	30°♿			2533 Sep 28 03:21	0°♿	
min. Earth dist.	2532 Nov 14 21:14	25°♿00'54	0.67420 AU	evening max el	2533 Oct 06 12:32	9°♿25'19	26°01'34
inferior conj	2532 Nov 15 19:44	23°♿46'36	-0°03'01	retrograde	2533 Oct 19 01:14	16°♿32'07	
minimum elong	2532 Nov 15 19:48	23°♿46'21	0°03'00	evening set	2533 Oct 25 06:23	13°♿57'31	
transit middle	2532 Nov 15 19:48	23°♿46'21	0°03'00	min. Earth dist.	2533 Oct 29 12:27	9°♿23'37	0.66692 AU
transit begin	2532 Nov 15 17:05	23°♿55'20		inferior conj	2533 Oct 30 22:00	7°♿38'45	-1°00'13
transit end	2532 Nov 15 22:31	23°♿37'24		minimum elong	2533 Oct 30 23:36	7°♿33'47	0°59'34
asc. node	2532 Nov 15 23:15	23°♿34'59		asc. node	2533 Nov 02 20:18	4°♿11'58	
morning rise	2532 Nov 21 07:58	17°♿46'05		morning rise	2533 Nov 05 17:11	1°♿47'14	
direct	2532 Nov 24 22:23	16°♿31'23		direct	2533 Nov 08 20:59	0°♿50'03	
morning max el	2532 Dec 02 09:47	20°♿46'18	19°50'39	morning max el	2533 Nov 15 17:44	4°♿39'03	18°55'48
	2532 Dec 09 22:09	0°♿			2533 Dec 03 15:02	0°♿	
desc. node	2532 Dec 23 22:08	20°♿42'34		morning set	2533 Dec 07 18:32	6°♿29'49	
morning set	2532 Dec 28 09:15	27°♿34'12		desc. node	2533 Dec 10 19:10	11°♿14'35	
	2532 Dec 29 22:57	0°♿		max. Earth dist.	2533 Dec 22 17:06	29°♿55'44	1.45016 AU
max. Earth dist.	2533 Jan 09 00:37	15°♿47'49	1.44157 AU		2533 Dec 22 18:12	0°♿	
superior conj	2533 Jan 13 22:43	23°♿41'53	-1°53'54	superior conj	2533 Dec 24 07:31	2°♿26'55	-1°23'03
minimum elong	2533 Jan 13 16:17	23°♿15'52	1°53'29	minimum elong	2533 Dec 23 22:36	1°♿51'48	1°22'07
	2533 Jan 17 19:17	0°♿		evening rise	2534 Jan 08 12:06	26°♿43'38	
evening rise	2533 Jan 27 08:29	16°♿01'58			2534 Jan 10 12:26	0°♿	
	2533 Feb 04 14:25	0°♿		evening max el	2534 Jan 29 02:32	27°♿33'33	18°40'02
asc. node	2533 Feb 11 22:34	11°♿03'08		asc. node	2534 Jan 29 19:37	28°♿15'22	
evening max el	2533 Feb 14 14:51	14°♿08'02	18°14'33		2534 Feb 01 00:11	0°♿	
retrograde	2533 Feb 21 01:38	17°♿34'41		retrograde	2534 Feb 04 17:47	1°♿14'41	
evening set	2533 Feb 23 23:42	16°♿49'55		evening set	2534 Feb 07 21:43	0°♿18'00	
inferior conj	2533 Mar 02 01:30	11°♿30'37	3°41'40		2534 Feb 08 09:06	30°♿	
minimum elong	2533 Mar 02 01:33	11°♿30'28	3°41'40	inferior conj	2534 Feb 13 15:34	24°♿40'41	3°35'00

minimum elong	2534 Feb 13 14:08	24°  44'59	3°34'51	inferior conj	2535 Jan 28 13:39	8°  05'41	3°14'45
min. Earth dist.	2534 Feb 15 13:25	22°  22'21	0.65030 AU	minimum elong	2535 Jan 28 11:21	8°  13'08	3°14'19
morning rise	2534 Feb 19 06:07	18°  30'48		min. Earth dist.	2535 Jan 29 20:26	6°  26'00	0.66333 AU
direct	2534 Feb 25 23:23	15°  39'12		morning rise	2535 Feb 02 21:27	1°  53'07	
desc. node	2534 Mar 08 18:22	21°  03'00			2535 Feb 05 13:32	30°  R 	
morning max el	2534 Mar 11 07:06	23°  26'40	27°06'26	direct	2535 Feb 09 04:00	29°  Z  06'26	
	2534 Mar 17 03:32	0°  H			2535 Feb 13 01:37	0° 	
	2534 Apr 06 10:04	0°  Y		morning max el	2535 Feb 21 16:38	6°  32'18	26°02'13
morning set	2534 Apr 15 21:53	17°  Y17'30		desc. node	2535 Feb 23 15:24	8°  35'03	
max. Earth dist.	2534 Apr 20 10:57	26°  Y18'41	1.33937 AU		2535 Mar 11 20:51	0°  H	
	2534 Apr 22 06:05	0°  8		morning set	2535 Mar 29 21:33	0°  Y09'32	
					2535 Mar 29 19:29	0°  Y	
superior conj	2534 Apr 24 05:16	4°  805'53	-0°36'41	max. Earth dist.	2535 Apr 02 19:34	7°  Y34'37	1.35434 AU
minimum elong	2534 Apr 24 07:09	4°  815'42	0°36'17				
asc. node	2534 Apr 27 18:55	11°  838'46		superior conj	2535 Apr 08 00:52	17°  Y56'00	-1°04'45
evening rise	2534 May 01 13:55	19°  839'34		minimum elong	2535 Apr 08 04:10	18°  Y12'45	1°04'10
	2534 May 06 16:42	0°  II			2535 Apr 13 21:38	0°  8	
evening max el	2534 May 21 23:20	22°  II41'09	21°43'40	asc. node	2535 Apr 14 15:58	1°  834'36	
retrograde	2534 Jun 03 09:59	28°  II48'14		evening rise	2535 Apr 15 21:14	4°  805'06	
desc. node	2534 Jun 04 17:37	28°  II44'16			2535 Apr 30 18:58	0°  II	
evening set	2534 Jun 05 23:05	28°  II33'39		evening max el	2535 May 04 03:37	3°  II44'46	20°21'50
inferior conj	2534 Jun 15 08:43	24°  II31'31	-2°58'36	retrograde	2535 May 14 23:19	9°  II00'13	
minimum elong	2534 Jun 15 01:06	24°  II42'09	2°56'13	evening set	2535 May 17 00:03	8°  II49'53	
min. Earth dist.	2534 Jun 15 02:33	24°  II40'08	0.54943 AU	desc. node	2535 May 22 14:36	6°  II49'56	
morning rise	2534 Jun 24 04:15	20°  II37'21		inferior conj	2535 May 26 03:23	4°  II51'44	-1°02'06
direct	2534 Jun 27 08:30	20°  II15'11		minimum elong	2535 May 26 00:27	4°  II56'01	1°01'01
morning max el	2534 Jul 09 13:24	25°  II59'36	21°51'50	min. Earth dist.	2535 May 27 15:03	3°  II59'38	0.55097 AU
	2534 Jul 13 07:59	0°  8		morning rise	2535 Jun 03 23:41	0°  II37'35	
asc. node	2534 Jul 24 18:08	17°  846'28		direct	2535 Jun 07 19:16	0°  II06'08	
morning set	2534 Jul 30 12:15	29°  815'43		morning max el	2535 Jun 21 06:50	6°  II39'59	23°32'47
	2534 Jul 30 20:45	0°  8			2535 Jul 07 20:33	0°  8	
				asc. node	2535 Jul 11 15:12	7°  816'24	
superior conj	2534 Aug 06 18:12	14°  833'11	1°40'44	morning set	2535 Jul 14 23:41	14°  810'35	
minimum elong	2534 Aug 06 16:44	14°  825'31	1°40'39				
max. Earth dist.	2534 Aug 10 10:17	22°  808'25	1.34735 AU	superior conj	2535 Jul 22 00:37	29°  817'53	1°30'18
	2534 Aug 14 09:13	0°  8		minimum elong	2535 Jul 21 22:26	29°  806'08	1°30'04
evening rise	2534 Aug 14 22:06	1°  802'15			2535 Jul 22 08:27	0°  8	
desc. node	2534 Aug 31 16:56	29°  849'38		max. Earth dist.	2535 Jul 24 09:19	4°  820'41	1.33486 AU
	2534 Aug 31 19:41	0°  8		evening rise	2535 Jul 29 13:29	15°  801'18	
evening max el	2534 Sep 19 01:00	23°  801'09	26°54'04		2535 Aug 06 11:45	0°  8	
	2534 Sep 29 20:35	0°  8		desc. node	2535 Aug 18 13:56	19°  825'22	
retrograde	2534 Oct 02 04:18	0°  817'02			2535 Aug 26 14:50	0°  8	
	2534 Oct 04 09:49	30°  8R  8		evening max el	2535 Sep 01 12:40	6°  821'03	27°22'43
evening set	2534 Oct 08 22:04	27°  834'43		retrograde	2535 Sep 15 01:33	13°  839'05	
min. Earth dist.	2534 Oct 12 21:14	23°  837'17	0.65620 AU	evening set	2535 Sep 22 04:12	10°  857'40	
inferior conj	2534 Oct 14 18:43	21°  825'29	-1°59'20	min. Earth dist.	2535 Sep 25 21:22	7°  835'15	0.64192 AU
minimum elong	2534 Oct 14 21:57	21°  816'06	1°58'03	inferior conj	2535 Sep 28 07:30	5°  802'06	-2°57'58
morning rise	2534 Oct 20 22:32	15°  846'07		minimum elong	2535 Sep 28 12:13	4°  849'38	2°56'21
asc. node	2534 Oct 20 17:21	15°  852'58			2535 Oct 04 03:22	30°  8R 	
direct	2534 Oct 23 17:59	15°  802'43		morning rise	2535 Oct 04 21:21	29°  838'15	
morning max el	2534 Oct 30 07:05	18°  835'42	18°17'12	direct	2535 Oct 07 10:51	29°  805'03	
	2534 Nov 07 20:22	0°  8		asc. node	2535 Oct 07 14:23	29°  805'09	
morning set	2534 Nov 18 07:48	16°  850'42			2535 Oct 10 17:58	0°  8	
	2534 Nov 26 11:22	0°  8		morning max el	2535 Oct 13 23:13	2°  830'55	17°55'41
desc. node	2534 Nov 27 16:11	1°  855'02		morning set	2535 Oct 31 01:03	28°  833'36	
					2535 Oct 31 21:20	0°  8	
superior conj	2534 Dec 03 09:24	10°  858'45	-0°37'53				
minimum elong	2534 Dec 03 04:32	10°  839'34	0°37'13	superior conj	2535 Nov 13 01:44	20°  817'30	0°10'03
max. Earth dist.	2534 Dec 05 12:29	14°  819'46	1.45143 AU	minimum elong	2535 Nov 13 02:53	20°  822'08	0°09'54
	2534 Dec 15 12:44	0°  8		behind sun begin	2535 Nov 12 18:47	19°  849'17	
evening rise	2534 Dec 19 16:39	6°  830'23		behind sun end	2535 Nov 13 10:58	20°  854'55	
greatest brilliancy	2534 Dec 31 01:47	24°  811'49	-0.7m	desc. node	2535 Nov 14 13:13	22°  840'51	
	2535 Jan 03 22:34	0°  8		max. Earth dist.	2535 Nov 18 07:07	28°  840'19	1.44535 AU
evening max el	2535 Jan 12 10:52	11°  802'27	19°22'39		2535 Nov 19 03:13	0°  8	
asc. node	2535 Jan 16 16:39	14°  823'08		evening rise	2535 Nov 29 04:35	15°  840'53	
retrograde	2535 Jan 19 14:13	15°  808'34			2535 Dec 08 14:20	0°  8	
evening set	2535 Jan 23 01:01	13°  858'55		evening max el	2535 Dec 26 14:16	24°  832'36	20°20'26

retrograde	2536 Jan 03 12:12	29° S 11'57		evening set	2536 Dec 21 15:06	11° S 41'59	
asc. node	2536 Jan 03 13:40	29° S 11'56		inferior conj	2536 Dec 26 23:32	5° S 25'57	2°05'12
evening set	2536 Jan 07 07:26	27° S 48'07		minimum elong	2536 Dec 26 21:09	5° S 34'10	2°04'24
inferior conj	2536 Jan 12 17:04	21° S 41'49	2°44'06	min. Earth dist.	2536 Dec 27 04:49	5° S 07'39	0.67730 AU
minimum elong	2536 Jan 12 14:28	21° S 50'36	2°43'24		2536 Dec 31 07:19	30° R S	
min. Earth dist.	2536 Jan 13 10:20	20° S 43'14	0.67225 AU	morning rise	2537 Jan 01 03:02	29° S 13'26	
morning rise	2536 Jan 17 21:19	15° S 28'22		direct	2537 Jan 06 04:52	27° S 01'56	
direct	2536 Jan 23 14:02	12° S 56'24			2537 Jan 12 23:46	0° S	
morning max el	2536 Feb 04 01:18	19° S 47'08	24°40'44	morning max el	2537 Jan 16 10:26	3° S 06'53	23°12'15
desc. node	2536 Feb 10 12:26	27° S 07'46		desc. node	2537 Jan 27 09:28	16° S 23'45	
	2536 Feb 12 18:39	0° \approx			2537 Feb 05 22:06	0° \approx	
	2536 Mar 04 00:39	0° H		morning set	2537 Feb 20 06:47	22° \approx 42'40	
morning set	2536 Mar 11 02:35	12° H 03'23		max. Earth dist.	2537 Feb 24 12:58	29° \approx 58'00	1.39463 AU
max. Earth dist.	2536 Mar 14 18:13	18° H 36'54	1.37329 AU		2537 Feb 24 13:26	0° H	
	2536 Mar 20 19:20	0° Y		superior conj	2537 Mar 04 04:36	13° H 40'55	-1°52'00
superior conj	2536 Mar 21 09:59	1° Y 11'03	-1°30'48	minimum elong	2537 Mar 04 08:43	13° H 59'58	1°51'40
minimum elong	2536 Mar 21 14:17	1° Y 31'56	1°30'14		2537 Mar 12 18:53	0° Y	
evening rise	2536 Mar 29 22:58	18° Y 08'45		evening rise	2537 Mar 13 16:16	1° Y 42'53	
asc. node	2536 Mar 31 12:59	21° Y 17'19		asc. node	2537 Mar 18 10:01	10° Y 41'41	
	2536 Apr 05 02:32	0° B		evening max el	2537 Mar 29 21:56	27° Y 50'51	18°35'11
evening max el	2536 Apr 15 19:48	15° B 28'57	19°18'26		2537 Apr 01 13:33	0° B	
retrograde	2536 Apr 24 22:55	19° B 54'23		retrograde	2537 Apr 06 16:23	1° B 39'19	
evening set	2536 Apr 27 00:29	19° B 41'47		evening set	2537 Apr 08 23:53	1° B 20'14	
inferior conj	2536 May 05 10:43	15° B 33'15	0°52'07		2537 Apr 12 03:05	30° R Y	
minimum elong	2536 May 05 12:49	15° B 29'46	0°51'22	inferior conj	2537 Apr 16 14:28	26° Y 53'26	2°18'57
min. Earth dist.	2536 May 08 05:51	13° B 42'33	0.56177 AU	minimum elong	2537 Apr 16 18:23	26° Y 45'50	2°17'54
desc. node	2536 May 08 11:38	13° B 33'20		min. Earth dist.	2537 Apr 20 00:05	24° Y 16'47	0.57951 AU
morning rise	2536 May 13 22:10	10° B 45'15		morning rise	2537 Apr 24 09:47	21° Y 32'34	
direct	2536 May 18 16:51	9° B 52'50		desc. node	2537 Apr 25 08:40	21° Y 07'10	
morning max el	2536 Jun 01 21:14	17° B 06'01	25°13'08	direct	2537 Apr 30 05:04	20° Y 07'23	
	2536 Jun 12 10:31	0° II		morning max el	2537 May 14 14:09	27° Y 45'01	26°37'17
asc. node	2536 Jun 27 12:14	27° II 04'00			2537 May 16 18:42	0° B	
morning set	2536 Jun 28 11:26	29° II 05'49			2537 Jun 05 22:04	0° II	
	2536 Jun 28 21:40	0° E		morning set	2537 Jun 12 21:56	13° II 56'20	
				asc. node	2537 Jun 14 09:17	17° II 03'49	
superior conj	2536 Jul 05 10:36	14° E 12'00	1°14'58	superior conj	2537 Jun 19 22:16	29° II 09'12	0°55'32
minimum elong	2536 Jul 05 08:13	13° E 58'56	1°14'36	minimum elong	2537 Jun 19 20:09	28° II 57'34	0°55'08
max. Earth dist.	2536 Jul 06 15:51	16° E 51'31	1.32647 AU	max. Earth dist.	2537 Jun 20 02:55	29° II 34'49	1.32214 AU
evening rise	2536 Jul 12 13:46	29° E 25'45			2537 Jun 20 07:30	0° E	
	2536 Jul 12 20:26	0° Q		evening rise	2537 Jun 26 20:06	14° E 07'06	
	2536 Jul 29 14:25	0° P			2537 Jul 04 21:23	0° Q	
desc. node	2536 Aug 04 10:57	8° P 21'20		desc. node	2537 Jul 22 07:58	26° Q 20'59	
evening max el	2536 Aug 13 21:29	19° P 11'26	27°21'35		2537 Jul 25 16:04	0° P	
retrograde	2536 Aug 27 16:29	26° P 27'43		evening max el	2537 Jul 27 01:06	1° P 21'08	26°47'18
evening set	2536 Sep 03 21:13	23° P 59'13		retrograde	2537 Aug 09 23:51	8° P 33'52	
min. Earth dist.	2536 Sep 07 11:23	21° P 05'28	0.62429 AU	evening set	2537 Aug 16 20:41	6° P 31'54	
inferior conj	2536 Sep 10 09:25	18° P 20'49	-3°52'28	min. Earth dist.	2537 Aug 20 15:08	3° P 54'11	0.60430 AU
minimum elong	2536 Sep 10 14:55	18° P 07'49	3°51'00	inferior conj	2537 Aug 23 21:07	1° P 13'18	-4°36'38
morning rise	2536 Sep 17 10:10	13° P 15'41		minimum elong	2537 Aug 24 01:50	1° P 03'33	4°35'52
direct	2536 Sep 19 20:20	12° P 49'25			2537 Aug 25 09:08	30° R Q	
asc. node	2536 Sep 23 11:25	13° P 50'02		morning rise	2537 Aug 31 08:54	26° Q 29'34	
morning max el	2536 Sep 26 15:04	16° P 16'40	17°52'05	direct	2537 Sep 02 18:37	26° Q 07'29	
	2536 Oct 06 06:25	0° L		morning max el	2537 Sep 10 03:28	29° Q 44'44	18°07'31
morning set	2536 Oct 12 16:19	11° L 19'13		asc. node	2537 Sep 10 08:28	29° Q 56'58	
	2536 Oct 23 07:34	0° M			2537 Sep 10 09:41	0° P	
superior conj	2536 Oct 23 20:04	0° M 53'11	0°50'35	morning set	2537 Sep 25 23:33	24° P 50'25	
minimum elong	2536 Oct 24 00:16	1° M 11'01	0°50'01		2537 Sep 28 17:41	0° L	
max. Earth dist.	2536 Oct 30 21:55	12° M 38'21	1.43270 AU	superior conj	2537 Oct 05 16:21	12° L 44'36	1°19'36
desc. node	2536 Oct 31 10:14	13° M 28'16		minimum elong	2537 Oct 05 20:29	13° L 03'08	1°19'09
evening rise	2536 Nov 07 14:26	24° M 51'24		max. Earth dist.	2537 Oct 13 07:31	26° L 00'10	1.41514 AU
	2536 Nov 10 22:21	0° S			2537 Oct 15 17:05	0° M	
	2536 Dec 01 16:33	0° S		desc. node	2537 Oct 18 07:17	4° M 13'58	
evening max el	2536 Dec 08 12:03	8° S 03'41	21°30'27	evening rise	2537 Oct 18 14:30	4° M 43'10	
retrograde	2536 Dec 17 09:40	13° S 21'15			2537 Nov 04 05:33	0° S	
asc. node	2536 Dec 20 10:41	12° S 30'20					

evening max el	2537 Nov 21 04:52	21° ♁ 37'00	22°48'18	evening set	2538 Nov 20 03:36	9° ♁ 32'04	
retrograde	2537 Dec 01 04:49	27° ♁ 33'07		asc. node	2538 Nov 24 04:45	4° ♁ 59'41	
evening set	2537 Dec 05 22:21	25° ♁ 37'19		min. Earth dist.	2538 Nov 24 21:42	4° ♁ 03'08	0.67685 AU
asc. node	2537 Dec 07 07:43	24° ♁ 18'24		inferior conj	2538 Nov 25 14:02	3° ♁ 07'58	0°28'28
inferior conj	2537 Dec 11 07:07	19° ♁ 15'17	1°19'34	minimum elong	2538 Nov 25 13:21	3° ♁ 10'16	0°28'10
minimum elong	2537 Dec 11 05:24	19° ♁ 21'15	1°18'53		2538 Nov 27 23:59	30° ♁	
min. Earth dist.	2537 Dec 11 01:24	19° ♁ 35'01	0.67879 AU	morning rise	2538 Nov 30 23:08	27° ♁ 03'37	
morning rise	2537 Dec 16 12:19	13° ♁ 05'43		direct	2538 Dec 04 20:43	25° ♁ 37'06	
direct	2537 Dec 20 23:28	11° ♁ 16'59			2538 Dec 12 14:58	0° ♁	
morning max el	2537 Dec 29 23:23	16° ♁ 33'21	21°46'02	morning max el	2538 Dec 12 19:27	0° ♁ 11'08	20°29'06
	2538 Jan 09 21:20	0° ♁		desc. node	2539 Jan 01 03:33	26° ♁ 19'47	
desc. node	2538 Jan 14 06:30	6° ♁ 10'29			2539 Jan 03 13:58	0° ♁	
	2538 Jan 30 00:13	0° ♁		morning set	2539 Jan 10 05:53	10° ♁ 12'44	
morning set	2538 Jan 31 05:47	1° ♁ 57'37		max. Earth dist.	2539 Jan 19 18:43	25° ♁ 16'15	1.43370 AU
max. Earth dist.	2538 Feb 06 11:44	12° ♁ 08'09	1.41575 AU		2539 Jan 22 16:39	0° ♁	
superior conj	2538 Feb 14 03:40	25° ♁ 12'54	-2°04'23	superior conj	2539 Jan 26 02:18	5° ♁ 36'33	-2°02'55
minimum elong	2538 Feb 14 05:27	25° ♁ 20'41	2°04'20	minimum elong	2539 Jan 25 23:07	5° ♁ 23'20	2°02'48
	2538 Feb 16 20:37	0° ♁		evening rise	2539 Feb 07 10:48	26° ♁ 47'35	
evening rise	2538 Feb 24 21:34	14° ♁ 38'22			2539 Feb 09 06:39	0° ♁	
asc. node	2538 Mar 05 07:04	29° ♁ 40'35		asc. node	2539 Feb 20 04:06	18° ♁ 06'20	
	2538 Mar 05 11:43	0° ♁		evening max el	2539 Feb 24 18:43	23° ♁ 49'24	18°08'02
evening max el	2538 Mar 13 06:39	10° ♁ 40'30	18°11'53	retrograde	2539 Mar 03 06:32	27° ♁ 12'46	
retrograde	2538 Mar 20 04:09	14° ♁ 08'41		evening set	2539 Mar 06 01:37	26° ♁ 34'13	
evening set	2538 Mar 22 17:48	13° ♁ 40'30		inferior conj	2539 Mar 12 09:24	21° ♁ 25'44	3°37'33
inferior conj	2538 Mar 29 15:04	8° ♁ 52'42	3°12'34	minimum elong	2539 Mar 12 10:32	21° ♁ 22'49	3°37'28
minimum elong	2538 Mar 29 18:05	8° ♁ 45'53	3°12'03	min. Earth dist.	2539 Mar 15 07:04	18° ♁ 27'12	0.62200 AU
min. Earth dist.	2538 Apr 01 23:36	5° ♁ 52'41	0.60072 AU	morning rise	2539 Mar 18 18:08	15° ♁ 26'30	
morning rise	2538 Apr 05 16:08	3° ♁ 08'09		direct	2539 Mar 25 15:50	12° ♁ 55'22	
direct	2538 Apr 12 05:35	1° ♁ 06'43		desc. node	2539 Mar 30 02:45	13° ♁ 51'27	
desc. node	2538 Apr 12 05:42	1° ♁ 06'43		morning max el	2539 Apr 08 17:36	20° ♁ 51'20	27°50'19
morning max el	2538 Apr 26 12:47	8° ♁ 57'05	27°32'05		2539 Apr 16 15:28	0° ♁	
	2538 May 12 15:30	0° ♁			2539 May 05 15:43	0° ♁	
morning set	2538 May 28 05:26	28° ♁ 35'35		morning set	2539 May 12 07:54	12° ♁ 57'06	
	2538 May 28 21:37	0° ♁		max. Earth dist.	2539 May 17 23:55	24° ♁ 50'49	1.32517 AU
asc. node	2538 Jun 01 06:21	7° ♁ 10'22		asc. node	2539 May 19 03:24	27° ♁ 19'21	
max. Earth dist.	2538 Jun 03 14:54	12° ♁ 18'55	1.32168 AU	superior conj	2539 May 19 19:32	28° ♁ 46'58	0°07'06
superior conj	2538 Jun 04 09:49	14° ♁ 02'48	0°32'41	minimum elong	2539 May 19 19:12	28° ♁ 45'09	0°07'02
minimum elong	2538 Jun 04 08:24	13° ♁ 55'03	0°32'23	behind sun begin	2539 May 19 14:33	28° ♁ 19'50	
evening rise	2538 Jun 11 06:09	28° ♁ 56'56		behind sun end	2539 May 19 23:51	29° ♁ 10'29	
	2538 Jun 11 18:05	0° ♁			2539 May 20 08:57	0° ♁	
	2538 Jun 28 10:04	0° ♁		evening rise	2539 May 26 17:52	13° ♁ 48'21	
evening max el	2538 Jul 08 21:42	12° ♁ 43'55	25°41'35		2539 Jun 03 21:19	0° ♁	
desc. node	2538 Jul 09 05:00	13° ♁ 01'11		evening max el	2539 Jun 20 12:13	23° ♁ 26'16	24°13'12
retrograde	2538 Jul 22 21:44	19° ♁ 52'03		desc. node	2539 Jun 26 02:01	27° ♁ 50'43	
evening set	2538 Jul 28 21:55	18° ♁ 26'50			2539 Jul 01 01:37	0° ♁	
min. Earth dist.	2538 Aug 02 09:55	15° ♁ 47'58	0.58375 AU	retrograde	2539 Jul 04 08:05	0° ♁ 24'31	
inferior conj	2538 Aug 05 15:06	13° ♁ 30'01	-5°00'31		2539 Jul 07 15:17	30° ♁	
minimum elong	2538 Aug 05 16:28	13° ♁ 27'33	5°00'29	evening set	2539 Jul 08 23:37	29° ♁ 36'30	
morning rise	2538 Aug 13 13:18	9° ♁ 09'01		min. Earth dist.	2539 Jul 14 22:56	26° ♁ 39'13	0.56547 AU
direct	2538 Aug 16 01:27	8° ♁ 49'01		inferior conj	2539 Jul 17 12:56	25° ♁ 02'29	-4°50'13
morning max el	2538 Aug 24 09:15	12° ♁ 46'24	18°43'26	minimum elong	2539 Jul 17 08:49	25° ♁ 08'57	4°49'47
asc. node	2538 Aug 28 05:32	17° ♁ 11'07		morning rise	2539 Jul 25 20:41	21° ♁ 01'42	
	2538 Sep 05 02:12	0° ♁		direct	2539 Jul 28 13:15	20° ♁ 42'31	
morning set	2538 Sep 09 18:06	8° ♁ 54'33		morning max el	2539 Aug 07 05:27	25° ♁ 12'10	19°40'45
					2539 Aug 11 11:37	0° ♁	
superior conj	2538 Sep 18 09:39	25° ♁ 38'20	1°37'06	asc. node	2539 Aug 15 02:36	5° ♁ 17'43	
minimum elong	2538 Sep 18 12:13	25° ♁ 50'28	1°36'56	morning set	2539 Aug 24 20:22	23° ♁ 21'23	
	2538 Sep 20 17:39	0° ♁			2539 Aug 28 03:09	0° ♁	
max. Earth dist.	2538 Sep 25 12:56	8° ♁ 40'51	1.39488 AU	superior conj	2539 Sep 01 18:27	9° ♁ 18'26	1°44'42
evening rise	2538 Sep 29 13:34	15° ♁ 38'44		minimum elong	2539 Sep 01 19:11	9° ♁ 22'03	1°44'41
desc. node	2538 Oct 05 04:19	24° ♁ 54'28		max. Earth dist.	2539 Sep 07 17:20	20° ♁ 45'45	1.37448 AU
	2538 Oct 08 09:37	0° ♁		evening rise	2539 Sep 11 11:50	27° ♁ 38'55	
	2538 Oct 29 23:14	0° ♁			2539 Sep 12 19:39	0° ♁	
evening max el	2538 Nov 03 18:24	5° ♁ 14'15	24°08'12	desc. node	2539 Sep 22 01:21	15° ♁ 24'57	
retrograde	2538 Nov 14 20:30	11° ♁ 44'37					





































































































































	2539 Oct 01 19:42	0°♄		desc. node	2540 Sep 07 22:22	5°♄40'20	
evening max el	2539 Oct 17 06:27	18°♄53'50	25°23'22		2540 Sep 26 06:29	0°♄	
retrograde	2539 Oct 29 07:48	25°♄50'29		evening max el	2540 Sep 28 18:32	2°♄32'49	26°26'17
evening set	2539 Nov 04 05:08	23°♄22'39		retrograde	2540 Oct 11 14:13	9°♄45'18	
min. Earth dist.	2539 Nov 08 15:19	18°♄28'29	0.67153 AU	evening set	2540 Oct 18 01:05	7°♄06'14	
inferior conj	2539 Nov 09 18:30	17°♄00'40	-0°26'56	min. Earth dist.	2540 Oct 22 04:00	2°♄48'01	0.66279 AU
minimum elong	2539 Nov 09 19:11	16°♄58'27	0°26'39	inferior conj	2540 Oct 23 18:39	0°♄50'49	-1°25'13
asc. node	2539 Nov 11 01:48	15°♄21'02		minimum elong	2540 Oct 23 20:56	0°♄43'53	1°24'16
morning rise	2539 Nov 15 09:29	11°♄03'55			2540 Oct 24 11:29	30°♄	
direct	2539 Nov 18 19:09	9°♄57'08		asc. node	2540 Oct 27 22:50	26°♄19'55	
morning max el	2539 Nov 25 23:24	13°♄59'25	19°25'30	morning rise	2540 Oct 29 17:20	25°♄04'19	
	2539 Dec 08 01:38	0°♄		direct	2540 Nov 01 17:12	24°♄13'38	
greatest brilliancy	2539 Dec 09 10:19	2°♄02'31	-0.7m	morning max el	2540 Nov 08 10:00	27°♄54'48	18°37'20
desc. node	2539 Dec 19 00:35	16°♄44'40			2540 Nov 10 07:43	0°♄	
morning set	2539 Dec 20 04:37	18°♄33'08		morning set	2540 Nov 29 00:52	28°♄02'34	
	2539 Dec 27 13:12	0°♄			2540 Nov 30 06:25	0°♄	
max. Earth dist.	2540 Jan 02 08:28	9°♄07'12	1.44608 AU	desc. node	2540 Dec 04 21:36	7°♄20'35	
superior conj	2540 Jan 05 22:50	14°♄50'16	-1°43'04	superior conj	2540 Dec 15 02:01	23°♄22'03	-1°05'02
minimum elong	2540 Jan 05 14:36	14°♄17'25	1°42'24	minimum elong	2540 Dec 14 18:08	22°♄51'07	1°04'05
	2540 Jan 15 07:17	0°♄		max. Earth dist.	2540 Dec 15 02:07	23°♄22'25	1.45156 AU
evening rise	2540 Jan 20 03:35	8°♄02'13			2540 Dec 19 07:21	0°♄	
	2540 Feb 02 15:56	0°♄		evening rise	2540 Dec 30 21:05	18°♄19'04	
asc. node	2540 Feb 07 01:07	5°♄48'40			2541 Jan 07 04:53	0°♄	
evening max el	2540 Feb 08 07:10	7°♄09'53	18°23'08	greatest brilliancy	2541 Jan 08 05:49	1°♄38'47	-0.8m
retrograde	2540 Feb 14 18:56	10°♄41'36		evening max el	2541 Jan 21 17:34	20°♄36'45	18°56'11
evening set	2540 Feb 17 19:21	9°♄51'53		asc. node	2541 Jan 23 22:08	22°♄35'09	
inferior conj	2540 Feb 23 17:22	4°♄24'24	3°40'45	retrograde	2541 Jan 28 13:18	24°♄27'49	
minimum elong	2540 Feb 23 16:44	4°♄26'15	3°40'43	evening set	2541 Jan 31 19:53	23°♄25'55	
min. Earth dist.	2540 Feb 26 00:09	1°♄47'23	0.64092 AU	inferior conj	2541 Feb 06 11:13	17°♄41'34	3°27'52
	2540 Feb 27 16:27	30°♄		minimum elong	2541 Feb 06 09:21	17°♄47'24	3°27'36
morning rise	2540 Feb 29 13:24	28°♄16'59		min. Earth dist.	2541 Feb 08 02:34	15°♄38'44	0.65627 AU
direct	2540 Mar 07 10:15	25°♄28'45		morning rise	2541 Feb 11 22:26	11°♄30'00	
desc. node	2540 Mar 15 23:46	28°♄54'46		direct	2541 Feb 18 11:35	8°♄38'51	
	2540 Mar 17 09:28	0°♄		desc. node	2541 Mar 02 20:48	15°♄41'19	
morning max el	2540 Mar 21 02:26	3°♄23'01	27°31'53	morning max el	2541 Mar 03 12:19	16°♄19'49	26°41'54
	2540 Apr 10 01:26	0°♄			2541 Mar 14 20:17	0°♄	
morning set	2540 Apr 25 02:50	26°♄53'03			2541 Apr 02 21:29	0°♄	
	2540 Apr 26 16:21	0°♄		morning set	2541 Apr 08 10:46	10°♄12'23	
max. Earth dist.	2540 Apr 30 01:51	6°♄57'33	1.33284 AU	max. Earth dist.	2541 Apr 12 17:03	18°♄30'14	1.34511 AU
superior conj	2540 May 03 01:35	13°♄16'01	-0°20'24	superior conj	2541 Apr 17 01:45	27°♄22'39	-0°48'41
minimum elong	2540 May 03 02:36	13°♄21'27	0°20'10	minimum elong	2541 Apr 17 04:15	27°♄35'35	0°48'12
asc. node	2540 May 05 00:27	17°♄26'51			2541 Apr 18 08:01	0°♄	
evening rise	2540 May 10 05:24	28°♄35'05		asc. node	2541 Apr 21 21:28	7°♄28'11	
	2540 May 10 21:34	0°♄		evening rise	2541 Apr 24 14:51	13°♄10'08	
	2540 May 28 12:33	0°♄			2541 May 03 07:36	0°♄	
evening max el	2540 Jun 01 02:34	3°♄54'05	22°36'53	evening max el	2541 May 14 00:30	14°♄38'46	21°06'56
desc. node	2540 Jun 11 23:02	10°♄14'20		retrograde	2541 May 25 20:01	20°♄24'56	
retrograde	2540 Jun 14 06:25	10°♄26'32		evening set	2541 May 28 01:25	20°♄13'24	
evening set	2540 Jun 17 10:37	10°♄04'21		desc. node	2541 May 29 20:03	19°♄48'37	
min. Earth dist.	2540 Jun 25 10:20	6°♄35'05	0.55285 AU	inferior conj	2541 Jun 06 10:16	16°♄15'05	-2°11'14
inferior conj	2540 Jun 26 16:24	5°♄52'12	-3°53'00	minimum elong	2541 Jun 06 04:12	16°♄23'37	2°09'09
minimum elong	2540 Jun 26 08:26	6°♄03'35	3°51'02	min. Earth dist.	2541 Jun 06 22:27	15°♄57'53	0.54885 AU
morning rise	2540 Jul 05 08:30	2°♄00'48		morning rise	2541 Jun 15 07:05	12°♄14'23	
direct	2540 Jul 08 07:01	1°♄40'59		direct	2541 Jun 18 16:36	11°♄49'26	
morning max el	2540 Jul 19 14:20	6°♄55'53	20°58'52	morning max el	2541 Jul 01 12:26	17°♄56'19	22°33'48
asc. node	2540 Jul 31 23:40	24°♄04'39			2541 Jul 11 05:30	0°♄	
	2540 Aug 04 03:29	0°♄		asc. node	2541 Jul 18 20:43	13°♄21'06	
morning set	2540 Aug 08 03:46	8°♄04'12		morning set	2541 Jul 23 14:14	22°♄55'57	
					2541 Jul 26 22:12	0°♄	
superior conj	2540 Aug 15 14:18	23°♄32'15	1°44'09				
minimum elong	2540 Aug 15 13:30	23°♄28'08	1°44'08	superior conj	2541 Jul 30 17:39	8°♄08'07	1°36'59
	2540 Aug 18 18:40	0°♄		minimum elong	2541 Jul 30 15:48	7°♄58'23	1°36'49
max. Earth dist.	2540 Aug 20 02:10	2°♄36'28	1.35625 AU	max. Earth dist.	2541 Aug 02 19:40	14°♄36'33	1.34155 AU
evening rise	2540 Aug 24 05:40	10°♄35'29		evening rise	2541 Aug 07 14:24	24°♄15'17	
	2540 Sep 04 08:17	0°♄			2541 Aug 10 14:14	0°♄	

desc. node	2541 Aug 25 19:23	25° \cap 33'04		superior conj	2542 Jul 15 01:50	22° \ominus 57'35	1°24'21
	2541 Aug 28 21:21	0° $\underline{\cap}$		minimum elong	2542 Jul 14 23:31	22° \ominus 44'56	1°24'03
evening max el	2541 Sep 11 06:49	16° $\underline{\cap}$ 03'15	27°09'33	max. Earth dist.	2542 Jul 16 22:14	26° \ominus 57'12	1.33088 AU
retrograde	2541 Sep 24 15:06	23° $\underline{\cap}$ 21'23			2542 Jul 18 08:28	0° Ω	
evening set	2541 Oct 01 13:05	20° $\underline{\cap}$ 38'16		evening rise	2542 Jul 22 10:00	8° Ω 26'37	
min. Earth dist.	2541 Oct 05 09:29	16° $\underline{\cap}$ 55'55	0.65052 AU		2542 Aug 03 00:32	0° \cap	
inferior conj	2541 Oct 07 12:18	14° $\underline{\cap}$ 34'03	-2°24'29	desc. node	2542 Aug 12 16:24	14° \cap 53'27	
minimum elong	2541 Oct 07 16:13	14° $\underline{\cap}$ 23'06	2°23'00	evening max el	2542 Aug 24 17:48	29° \cap 12'58	27°26'11
morning rise	2541 Oct 13 20:15	9° $\underline{\cap}$ 00'45			2542 Aug 25 14:03	0° $\underline{\cap}$	
asc. node	2541 Oct 14 19:53	8° $\underline{\cap}$ 37'47		retrograde	2542 Sep 07 09:41	6° $\underline{\cap}$ 29'59	
direct	2541 Oct 16 12:44	8° $\underline{\cap}$ 22'15		evening set	2542 Sep 14 14:06	3° $\underline{\cap}$ 52'54	
morning max el	2541 Oct 23 00:52	11° $\underline{\cap}$ 51'34	18°05'51	min. Earth dist.	2542 Sep 18 05:37	0° $\underline{\cap}$ 43'25	0.63479 AU
	2541 Nov 04 16:09	0° \cap			2542 Sep 18 23:10	30° \cap	
morning set	2541 Nov 10 02:35	9° \cap 00'05		inferior conj	2542 Sep 20 20:52	28° \cap 04'13	-3°21'55
desc. node	2541 Nov 21 18:38	28° \cap 03'47		minimum elong	2542 Sep 21 02:03	27° \cap 51'08	3°20'17
	2541 Nov 22 23:41	0° \times		morning rise	2542 Sep 27 15:16	22° \cap 47'34	
				direct	2542 Sep 30 03:01	22° \cap 17'38	
superior conj	2541 Nov 24 07:48	2° \times 07'58	-0°17'10	asc. node	2542 Oct 01 16:57	22° \cap 29'56	
minimum elong	2541 Nov 24 05:38	1° \times 59'23	0°16'52	morning max el	2542 Oct 06 17:10	25° \cap 43'12	17°51'50
max. Earth dist.	2541 Nov 27 21:02	7° \times 45'24	1.44967 AU		2542 Oct 10 07:32	0° $\underline{\cap}$	
evening rise	2541 Dec 10 17:11	27° \times 46'36		morning set	2542 Oct 23 06:02	21° $\underline{\cap}$ 12'15	
	2541 Dec 12 03:41	0° $\overline{\cap}$			2542 Oct 28 08:05	0° \cap	
greatest brilliancy	2541 Dec 24 00:12	18° $\overline{\cap}$ 07'38	-0.7m				
	2542 Jan 01 10:46	0° \approx		superior conj	2542 Nov 04 10:30	11° \cap 57'17	0°28'33
evening max el	2542 Jan 04 24:00	4° \approx 06'49	19°45'39	minimum elong	2542 Nov 04 13:24	12° \cap 09'16	0°28'08
asc. node	2542 Jan 10 19:09	8° \approx 11'22		desc. node	2542 Nov 08 15:40	18° \cap 50'35	
retrograde	2542 Jan 12 10:37	8° \approx 26'12		max. Earth dist.	2542 Nov 10 14:31	21° \cap 58'57	1.44071 AU
evening set	2542 Jan 16 00:45	7° \approx 10'50			2542 Nov 15 16:03	0° \times	
inferior conj	2542 Jan 21 11:52	1° \approx 11'59	3°02'53	evening rise	2542 Nov 20 02:08	6° \times 51'57	
minimum elong	2542 Jan 21 09:23	1° \approx 20'12	3°02'20		2542 Dec 05 12:10	0° $\overline{\cap}$	
	2542 Jan 22 09:35	30° \cap		evening max el	2542 Dec 19 01:07	17° $\overline{\cap}$ 37'38	20°49'03
min. Earth dist.	2542 Jan 22 12:49	29° $\overline{\cap}$ 49'23	0.66759 AU	retrograde	2542 Dec 27 08:27	22° $\overline{\cap}$ 32'21	
morning rise	2542 Jan 26 17:47	24° $\overline{\cap}$ 58'47		asc. node	2542 Dec 28 16:12	22° $\overline{\cap}$ 22'38	
direct	2542 Feb 01 18:50	22° $\overline{\cap}$ 17'04		evening set	2542 Dec 31 07:53	21° $\overline{\cap}$ 02'02	
morning max el	2542 Feb 13 21:17	29° $\overline{\cap}$ 29'54	25°29'04	inferior conj	2543 Jan 05 16:49	14° $\overline{\cap}$ 51'24	2°28'30
	2542 Feb 14 09:04	0° \approx		minimum elong	2543 Jan 05 14:15	15° $\overline{\cap}$ 00'10	2°27'44
desc. node	2542 Feb 17 17:49	3° \approx 41'48		min. Earth dist.	2543 Jan 06 04:50	14° $\overline{\cap}$ 10'11	0.67489 AU
	2542 Mar 08 16:51	0° \times		morning rise	2543 Jan 10 20:27	8° $\overline{\cap}$ 38'23	
morning set	2542 Mar 22 03:14	22° \times 42'00		direct	2543 Jan 16 07:00	6° $\overline{\cap}$ 14'32	
max. Earth dist.	2542 Mar 25 20:34	29° \times 35'39	1.36193 AU	morning max el	2543 Jan 27 05:37	12° $\overline{\cap}$ 45'58	24°03'24
	2542 Mar 26 01:43	0° Υ		desc. node	2543 Feb 04 14:51	22° $\overline{\cap}$ 34'25	
					2543 Feb 10 02:51	0° \approx	
superior conj	2542 Mar 31 17:21	10° Υ 59'33	-1°16'10		2543 Mar 01 12:52	0° \times	
minimum elong	2542 Mar 31 21:09	11° Υ 18'33	1°15'34	morning set	2543 Mar 03 22:23	4° \times 05'20	
evening rise	2542 Apr 08 20:06	27° Υ 27'22		max. Earth dist.	2543 Mar 07 16:38	10° \times 41'34	1.38225 AU
asc. node	2542 Apr 08 18:30	27° Υ 19'15					
	2542 Apr 10 02:21	0° $\overline{\cap}$		superior conj	2543 Mar 14 20:50	23° \times 56'40	-1°40'35
evening max el	2542 Apr 26 10:05	26° $\overline{\cap}$ 00'16	19°52'32	minimum elong	2543 Mar 15 01:15	24° \times 17'42	1°40'06
	2542 May 02 04:23	0° \cap			2543 Mar 18 00:16	0° Υ	
retrograde	2542 May 06 11:50	0° \cap 52'43		evening rise	2543 Mar 23 18:36	11° Υ 19'11	
evening set	2542 May 08 11:55	0° \cap 42'01		asc. node	2543 Mar 26 15:32	16° Υ 54'47	
	2542 May 11 00:57	30° \cap			2543 Apr 03 00:37	0° $\overline{\cap}$	
desc. node	2542 May 16 17:02	27° $\overline{\cap}$ 05'20		evening max el	2543 Apr 09 06:49	8° $\overline{\cap}$ 01'03	18°57'34
inferior conj	2542 May 17 08:51	26° $\overline{\cap}$ 41'16	-0°11'32	retrograde	2543 Apr 17 18:29	12° $\overline{\cap}$ 08'41	
minimum elong	2542 May 17 08:19	26° $\overline{\cap}$ 42'04	0°11'21	evening set	2543 Apr 19 22:33	11° $\overline{\cap}$ 53'36	
transit middle	2542 May 17 08:19	26° $\overline{\cap}$ 42'04	0°11'21	inferior conj	2543 Apr 28 00:18	7° $\overline{\cap}$ 37'37	1°32'59
transit begin	2542 May 17 05:32	26° $\overline{\cap}$ 46'20		minimum elong	2543 Apr 28 03:36	7° $\overline{\cap}$ 31'46	1°31'56
transit end	2542 May 17 11:06	26° $\overline{\cap}$ 37'48		min. Earth dist.	2543 May 01 03:39	5° $\overline{\cap}$ 25'28	0.56870 AU
min. Earth dist.	2542 May 19 11:56	25° $\overline{\cap}$ 23'21	0.55459 AU	desc. node	2543 May 03 14:03	3° $\overline{\cap}$ 53'38	
morning rise	2542 May 26 02:33	22° $\overline{\cap}$ 13'35		morning rise	2543 May 06 05:34	2° $\overline{\cap}$ 35'15	
direct	2542 May 30 07:34	21° $\overline{\cap}$ 34'31		direct	2543 May 11 11:08	1° $\overline{\cap}$ 30'09	
morning max el	2542 Jun 13 03:39	28° $\overline{\cap}$ 26'53	24°16'14	morning max el	2543 May 25 18:20	8° $\overline{\cap}$ 54'28	25°51'49
	2542 Jun 14 17:11	0° \cap			2543 Jun 10 14:26	0° \cap	
	2542 Jul 04 06:12	0° \ominus		morning set	2543 Jun 22 13:28	22° \cap 45'47	
asc. node	2542 Jul 05 17:46	2° \ominus 59'15		asc. node	2543 Jun 22 14:49	22° \cap 52'58	
morning set	2542 Jul 08 02:00	7° \ominus 51'27			2543 Jun 25 22:19	0° \ominus	

superior conj	2543 Jun 29 12:47	7°♄53'57	1°07'11	minimum elong	2544 Jun 12 22:43	22°♄40'06	0°45'51
minimum elong	2543 Jun 29 10:27	7°♄41'11	1°06'48	max. Earth dist.	2544 Jun 12 19:25	22°♄21'57	1.32142 AU
max. Earth dist.	2543 Jun 30 07:23	9°♄36'01	1.32420 AU		2544 Jun 16 06:47	0°♄	
evening rise	2543 Jul 06 13:13	22°♄59'45		evening rise	2544 Jun 19 21:21	7°♄45'31	
	2543 Jul 10 00:06	0°♄			2544 Jul 01 11:44	0°♄	
	2543 Jul 27 22:12	0°♄		desc. node	2544 Jul 16 10:26	20°♄57'44	
desc. node	2543 Jul 30 13:25	3°♄28'13		evening max el	2544 Jul 19 01:27	23°♄37'57	26°22'48
evening max el	2543 Aug 07 00:55	11°♄48'27	27°11'04		2544 Jul 28 12:44	0°♄	
retrograde	2543 Aug 20 21:19	19°♄02'25		retrograde	2544 Aug 02 00:57	0°♄49'23	
evening set	2543 Aug 28 00:18	16°♄43'41			2544 Aug 06 11:19	30°♄	
min. Earth dist.	2543 Aug 31 15:08	13°♄58'46	0.61605 AU	evening set	2544 Aug 08 14:52	29°♄01'46	
inferior conj	2543 Sep 03 17:15	11°♄13'48	-4°12'55	min. Earth dist.	2544 Aug 12 14:32	26°♄26'11	0.59550 AU
minimum elong	2543 Sep 03 22:41	11°♄01'40	4°11'42	inferior conj	2544 Aug 15 21:50	23°♄52'21	-4°49'58
morning rise	2543 Sep 10 22:43	6°♄17'23		minimum elong	2544 Aug 16 01:29	23°♄45'14	4°49'34
direct	2543 Sep 13 08:29	5°♄53'03		morning rise	2544 Aug 23 14:12	19°♄18'39	
asc. node	2543 Sep 18 14:00	7°♄52'10		direct	2544 Aug 26 00:40	18°♄57'40	
morning max el	2543 Sep 20 07:59	9°♄23'05	17°56'15	morning max el	2544 Sep 02 18:03	22°♄41'45	18°20'15
	2543 Oct 03 19:43	0°♄		asc. node	2544 Sep 04 11:04	24°♄29'54	
morning set	2543 Oct 06 04:52	4°♄20'11			2544 Sep 08 13:04	0°♄	
				morning set	2544 Sep 18 17:24	18°♄06'52	
superior conj	2543 Oct 16 16:25	23°♄07'24	1°04'21		2544 Sep 24 23:38	0°♄	
minimum elong	2543 Oct 16 20:53	23°♄26'46	1°03'48	superior conj	2544 Sep 27 22:24	5°♄27'56	1°28'20
	2543 Oct 20 16:49	0°♄		minimum elong	2544 Sep 28 01:58	5°♄44'17	1°28'00
max. Earth dist.	2543 Oct 24 03:55	5°♄46'13	1.42577 AU	max. Earth dist.	2544 Oct 05 11:26	18°♄50'44	1.40671 AU
desc. node	2543 Oct 26 12:44	9°♄38'09		evening rise	2544 Oct 10 01:49	26°♄34'12	
evening rise	2543 Oct 30 16:30	16°♄16'46		desc. node	2544 Oct 12 09:47	0°♄22'16	
	2543 Nov 08 14:46	0°♄			2544 Oct 12 04:16	0°♄	
	2543 Nov 30 18:01	0°♄			2544 Nov 01 07:47	0°♄	
evening max el	2543 Dec 01 20:41	1°♄09'47	22°02'50	evening max el	2544 Nov 13 11:41	14°♄44'06	23°22'18
retrograde	2543 Dec 11 05:06	6°♄43'37		retrograde	2544 Nov 23 23:03	20°♄56'11	
evening set	2543 Dec 15 15:35	4°♄57'10		evening set	2544 Nov 28 22:12	18°♄53'01	
asc. node	2543 Dec 15 13:14	5°♄01'54		asc. node	2544 Dec 01 10:16	16°♄17'36	
	2543 Dec 20 00:13	30°♄		inferior conj	2544 Dec 04 07:31	12°♄29'19	0°58'31
inferior conj	2543 Dec 20 23:59	28°♄38'02	1°46'36	minimum elong	2544 Dec 04 06:11	12°♄33'52	0°57'57
minimum elong	2543 Dec 20 21:50	28°♄45'29	1°45'48	min. Earth dist.	2544 Dec 03 21:12	13°♄04'43	0.67838 AU
min. Earth dist.	2543 Dec 21 00:25	28°♄36'32	0.67842 AU	morning rise	2544 Dec 09 14:07	6°♄21'41	
morning rise	2543 Dec 26 03:57	22°♄26'46		direct	2544 Dec 13 19:12	4°♄42'50	
direct	2543 Dec 30 23:26	20°♄25'05		morning max el	2544 Dec 22 07:54	9°♄40'28	21°11'50
morning max el	2544 Jan 09 16:03	26°♄08'39	22°34'50		2545 Jan 06 23:33	0°♄	
	2544 Jan 13 04:37	0°♄		desc. node	2545 Jan 08 09:00	2°♄02'09	
desc. node	2544 Jan 22 11:55	12°♄04'42		morning set	2545 Jan 22 01:54	22°♄52'47	
	2544 Feb 03 16:29	0°♄			2545 Jan 26 13:21	0°♄	
morning set	2544 Feb 12 14:17	14°♄08'14		max. Earth dist.	2545 Jan 29 14:41	4°♄57'36	1.42389 AU
max. Earth dist.	2544 Feb 17 12:49	22°♄22'56	1.40386 AU				
	2544 Feb 21 22:24	0°♄		superior conj	2545 Feb 05 20:53	17°♄06'46	-2°05'45
superior conj	2544 Feb 25 07:43	6°♄02'54	-1°58'37	minimum elong	2545 Feb 05 20:50	17°♄06'33	2°05'45
minimum elong	2544 Feb 25 11:10	6°♄18'31	1°58'25		2545 Feb 13 05:30	0°♄	
evening rise	2544 Mar 06 07:15	24°♄37'52		evening rise	2545 Feb 17 06:17	7°♄15'05	
	2544 Mar 09 03:46	0°♄		asc. node	2545 Feb 27 09:35	24°♄55'21	
asc. node	2544 Mar 12 12:34	6°♄09'06			2545 Mar 02 20:53	0°♄	
evening max el	2544 Mar 22 12:03	20°♄35'05	18°22'49	evening max el	2545 Mar 05 22:32	3°♄34'01	18°07'55
retrograde	2544 Mar 29 20:16	24°♄13'20		retrograde	2545 Mar 12 14:50	6°♄58'41	
evening set	2544 Apr 01 06:23	23°♄50'39		evening set	2545 Mar 15 06:43	6°♄26'24	
inferior conj	2544 Apr 08 13:08	19°♄14'43	2°45'39	inferior conj	2545 Mar 21 21:48	1°♄29'51	3°26'15
minimum elong	2544 Apr 08 16:54	19°♄06'54	2°44'47	minimum elong	2545 Mar 22 00:03	1°♄24'27	3°25'58
min. Earth dist.	2544 Apr 11 23:43	16°♄25'09	0.58825 AU		2545 Mar 23 11:06	30°♄	
morning rise	2544 Apr 16 00:37	13°♄42'19		min. Earth dist.	2545 Mar 25 02:37	28°♄27'15	0.60983 AU
desc. node	2544 Apr 19 11:05	12°♄21'35		morning rise	2545 Mar 28 15:29	25°♄37'47	
direct	2544 Apr 22 04:28	12°♄01'52		direct	2545 Apr 04 09:33	23°♄22'13	
morning max el	2544 May 06 13:40	19°♄46'05	27°04'58	desc. node	2545 Apr 06 08:08	23°♄32'48	
	2544 May 15 07:02	0°♄			2545 Apr 17 07:08	0°♄	
	2544 Jun 02 06:08	0°♄		morning max el	2545 Apr 18 15:14	1°♄16'54	27°44'33
morning set	2544 Jun 05 22:55	7°♄32'34			2545 May 09 11:38	0°♄	
asc. node	2544 Jun 08 11:52	12°♄56'18		morning set	2545 May 21 04:33	22°♄05'41	
					2545 May 24 22:40	0°♄	
superior conj	2544 Jun 13 00:35	22°♄50'22	0°46'13	asc. node	2545 May 26 08:55	3°♄04'47	

max. Earth dist.	2545 May 27 06:29	5° Π 02'09	1.32257 AU	morning set	2546 May 05 04:06	6° \mathcal{B} 16'59	
				max. Earth dist.	2546 May 10 12:41	17° \mathcal{B} 23'13	1.32785 AU
superior conj	2545 May 28 11:34	7° Π 41'05	0°22'07				
minimum elong	2545 May 28 10:34	7° Π 35'39	0°21'55	superior conj	2546 May 12 19:56	22° \mathcal{B} 19'26	-0°04'24
evening rise	2545 Jun 04 08:19	22° Π 36'56		minimum elong	2546 May 12 20:09	22° \mathcal{B} 20'35	0°04'21
	2545 Jun 07 21:49	0° \mathcal{E}		behind sun begin	2546 May 12 15:04	21° \mathcal{B} 53'13	
	2545 Jun 26 10:13	0° Ω		behind sun end	2546 May 13 01:13	22° \mathcal{B} 47'58	
evening max el	2545 Jun 30 18:53	4° Ω 41'27	25°06'04	asc. node	2546 May 13 05:56	23° \mathcal{B} 13'30	
desc. node	2545 Jul 03 07:25	6° Ω 55'27			2546 May 16 08:56	0° Π	
retrograde	2545 Jul 14 18:35	11° Ω 47'29		evening rise	2546 May 19 20:08	7° Π 26'43	
evening set	2545 Jul 20 05:53	10° Ω 38'45			2546 May 31 16:41	0° \mathcal{E}	
min. Earth dist.	2545 Jul 25 06:35	7° Ω 53'46	0.57548 AU	evening max el	2546 Jun 12 08:31	15° \mathcal{E} 13'54	23°32'23
inferior conj	2545 Jul 28 07:22	5° Ω 51'04	-5°01'17	desc. node	2546 Jun 20 04:24	20° \mathcal{E} 46'53	
minimum elong	2545 Jul 28 06:33	5° Ω 52'27	5°01'15	retrograde	2546 Jun 25 23:40	22° \mathcal{E} 03'17	
morning rise	2545 Aug 05 09:47	1° Ω 39'29		evening set	2546 Jun 29 23:20	21° \mathcal{E} 28'28	
direct	2545 Aug 07 23:23	1° Ω 20'09		min. Earth dist.	2546 Jul 06 18:42	18° \mathcal{E} 19'00	0.55919 AU
morning max el	2545 Aug 16 20:09	5° Ω 29'51	19°05'06	inferior conj	2546 Jul 08 20:46	17° \mathcal{E} 04'21	-4°32'08
asc. node	2545 Aug 22 08:08	12° Ω 08'14		minimum elong	2546 Jul 08 14:29	17° \mathcal{E} 13'45	4°31'04
	2545 Sep 01 10:50	0° \mathcal{M}		morning rise	2546 Jul 17 08:12	13° \mathcal{E} 08'59	
morning set	2545 Sep 02 15:33	2° \mathcal{M} 21'28		direct	2546 Jul 20 03:00	12° \mathcal{E} 49'45	
				morning max el	2546 Jul 30 11:32	17° \mathcal{E} 37'50	20°11'31
superior conj	2545 Sep 10 22:53	18° \mathcal{M} 43'12	1°41'25		2546 Aug 08 21:15	0° Ω	
minimum elong	2545 Sep 11 00:40	18° \mathcal{M} 51'47	1°41'20	asc. node	2546 Aug 09 05:11	0° Ω 33'18	
	2545 Sep 16 23:19	0° \mathcal{A}		morning set	2546 Aug 17 20:17	16° Ω 55'54	
max. Earth dist.	2545 Sep 17 15:11	1° \mathcal{A} 11'55	1.38610 AU		2546 Aug 24 05:25	0° \mathcal{M}	
evening rise	2545 Sep 21 11:01	7° \mathcal{A} 58'06					
desc. node	2545 Sep 29 06:48	20° \mathcal{A} 59'03		superior conj	2546 Aug 25 12:50	2° \mathcal{M} 38'56	1°45'22
	2545 Oct 05 02:23	0° \mathcal{M}		minimum elong	2546 Aug 25 12:52	2° \mathcal{M} 39'05	1°45'22
evening max el	2545 Oct 27 00:16	28° \mathcal{M} 22'22	24°41'11	max. Earth dist.	2546 Aug 30 20:51	13° \mathcal{M} 08'02	1.36640 AU
	2545 Oct 28 17:37	0° \mathcal{J}		evening rise	2546 Sep 03 18:11	20° \mathcal{M} 24'08	
retrograde	2545 Nov 07 13:06	5° \mathcal{J} 05'43			2546 Sep 09 04:35	0° \mathcal{A}	
evening set	2545 Nov 13 02:06	2° \mathcal{J} 46'31		desc. node	2546 Sep 16 03:47	11° \mathcal{A} 24'02	
	2545 Nov 15 18:13	30° \mathcal{R} \mathcal{M}			2546 Sep 29 01:59	0° \mathcal{M}	
min. Earth dist.	2545 Nov 17 16:45	27° \mathcal{M} 31'55	0.67498 AU	evening max el	2546 Oct 09 12:28	12° \mathcal{M} 03'40	25°52'09
asc. node	2545 Nov 18 07:19	26° \mathcal{M} 43'30		retrograde	2546 Oct 21 22:20	19° \mathcal{M} 07'54	
inferior conj	2545 Nov 18 13:37	26° \mathcal{M} 22'34	0°05'25	evening set	2546 Oct 28 01:30	16° \mathcal{M} 34'58	
minimum elong	2545 Nov 18 13:29	26° \mathcal{M} 23'00	0°05'21	min. Earth dist.	2546 Nov 01 08:39	11° \mathcal{M} 55'46	0.66825 AU
transit middle	2545 Nov 18 13:29	26° \mathcal{M} 23'00	0°05'21	inferior conj	2546 Nov 02 16:31	10° \mathcal{M} 15'19	-0°51'24
transit begin	2545 Nov 18 10:53	26° \mathcal{M} 31'39		minimum elong	2546 Nov 02 17:51	10° \mathcal{M} 11'04	0°50'49
transit end	2545 Nov 18 16:05	26° \mathcal{M} 14'22		asc. node	2546 Nov 05 04:22	7° \mathcal{M} 14'53	
morning rise	2545 Nov 24 00:58	20° \mathcal{M} 20'53		morning rise	2546 Nov 08 10:32	4° \mathcal{M} 22'19	
direct	2545 Nov 27 17:11	19° \mathcal{M} 03'10		direct	2546 Nov 11 15:50	3° \mathcal{M} 22'41	
morning max el	2545 Dec 05 07:17	23° \mathcal{M} 22'45	20°00'07	morning max el	2546 Nov 18 14:14	7° \mathcal{M} 14'42	19°02'58
	2545 Dec 10 21:49	0° \mathcal{J}			2546 Dec 04 21:43	0° \mathcal{J}	
desc. node	2545 Dec 26 06:03	22° \mathcal{J} 18'48		morning set	2546 Dec 11 03:57	9° \mathcal{J} 45'13	
	2545 Dec 31 06:26	0° \mathcal{Z}		desc. node	2546 Dec 13 03:04	12° \mathcal{J} 49'15	
morning set	2545 Dec 31 22:02	1° \mathcal{Z} 00'10			2546 Dec 24 02:25	0° \mathcal{Z}	
max. Earth dist.	2546 Jan 12 00:13	18° \mathcal{Z} 23'53	1.43972 AU	max. Earth dist.	2546 Dec 25 16:15	2° \mathcal{Z} 28'45	1.44937 AU
superior conj	2546 Jan 17 08:10	26° \mathcal{Z} 59'50	-1°56'53	superior conj	2546 Dec 27 19:34	5° \mathcal{Z} 51'08	-1°28'52
minimum elong	2546 Jan 17 02:32	26° \mathcal{Z} 36'54	1°56'36	minimum elong	2546 Dec 27 10:36	5° \mathcal{Z} 15'41	1°27'58
	2546 Jan 19 04:11	0° \approx		evening rise	2547 Jan 11 18:19	29° \mathcal{Z} 51'55	
evening rise	2546 Jan 30 11:16	19° \approx 01'36			2547 Jan 11 20:18	0° \approx	
	2546 Feb 05 21:02	0° \mathcal{H}			2547 Jan 31 17:51	0° \mathcal{H}	
asc. node	2546 Feb 14 06:37	13° \mathcal{H} 04'14		evening max el	2547 Jan 31 23:05	0° \mathcal{H} 13'26	18°35'04
evening max el	2546 Feb 17 11:07	16° \mathcal{H} 48'58	18°12'15	asc. node	2547 Feb 01 03:38	0° \mathcal{H} 24'55	
retrograde	2546 Feb 23 21:49	20° \mathcal{H} 14'11		retrograde	2547 Feb 07 13:07	3° \mathcal{H} 51'42	
evening set	2546 Feb 26 19:09	19° \mathcal{H} 31'02		evening set	2547 Feb 10 16:09	2° \mathcal{H} 56'46	
inferior conj	2546 Mar 04 22:23	14° \mathcal{H} 14'35	3°41'09		2547 Feb 14 03:45	30° \mathcal{R} \approx	
minimum elong	2546 Mar 04 22:42	14° \mathcal{H} 13'42	3°41'08	inferior conj	2547 Feb 16 10:58	27° \approx 21'52	3°36'55
min. Earth dist.	2546 Mar 07 14:07	11° \mathcal{H} 22'53	0.63045 AU	minimum elong	2547 Feb 16 09:44	27° \approx 25'33	3°36'49
morning rise	2546 Mar 11 01:14	8° \mathcal{H} 11'22		min. Earth dist.	2547 Feb 18 11:05	24° \approx 58'30	0.64803 AU
direct	2546 Mar 17 23:46	5° \mathcal{H} 30'50		morning rise	2547 Feb 22 02:50	21° \approx 12'35	
desc. node	2546 Mar 24 05:10	7° \mathcal{H} 20'35		direct	2547 Feb 28 21:14	18° \approx 21'30	
morning max el	2546 Mar 31 21:50	13° \mathcal{H} 27'26	27°46'41	desc. node	2547 Mar 11 02:14	23° \approx 12'04	
	2546 Apr 14 04:53	0° \mathcal{Y}		morning max el	2547 Mar 14 07:15	26° \approx 10'46	27°13'55
	2546 May 01 23:28	0° \mathcal{B}			2547 Mar 17 20:20	0° \mathcal{H}	

	2547 Apr 07 18:19	0°♿		morning max el	2548 Feb 24 17:02	9°♿14'58	26°13'09
morning set	2547 Apr 18 18:45	19°♿58'07		desc. node	2548 Feb 25 23:16	10°♿33'13	
max. Earth dist.	2547 Apr 23 10:20	29°♿15'22	1.33757 AU		2548 Mar 12 01:06	0°♿	
	2547 Apr 23 19:02	0°♿			2548 Mar 30 06:11	0°♿	
				morning set	2548 Mar 31 20:45	2°♿58'12	
superior conj	2547 Apr 26 23:45	6°♿39'35	-0°32'22	max. Earth dist.	2548 Apr 04 20:51	10°♿36'31	1.35179 AU
minimum elong	2547 Apr 27 01:23	6°♿48'15	0°32'03				
asc. node	2547 Apr 30 02:57	13°♿18'41		superior conj	2548 Apr 09 20:39	20°♿34'40	-1°00'33
evening rise	2547 May 04 07:00	22°♿09'07		minimum elong	2548 Apr 09 23:45	20°♿50'29	1°00'00
	2547 May 08 03:02	0°♿			2548 Apr 14 10:10	0°♿	
evening max el	2547 May 25 01:17	25°♿44'56	21°57'03	asc. node	2548 Apr 15 24:00	3°♿16'28	
	2547 May 30 14:05	0°♿		evening rise	2548 Apr 17 14:59	6°♿37'55	
retrograde	2547 Jun 06 16:46	1°♿59'06			2548 Apr 30 13:26	0°♿	
desc. node	2547 Jun 07 01:25	1°♿58'48		evening max el	2548 May 06 03:52	6°♿43'45	20°32'58
evening set	2547 Jun 09 09:19	1°♿42'57		retrograde	2548 May 17 05:58	12°♿07'29	
	2547 Jun 14 08:02	30°♿♿		evening set	2548 May 19 07:23	11°♿57'05	
min. Earth dist.	2547 Jun 18 05:53	27°♿56'16	0.55000 AU	desc. node	2548 May 23 22:27	10°♿26'56	
inferior conj	2547 Jun 18 18:28	27°♿38'39	-3°14'07	inferior conj	2548 May 28 12:33	7°♿59'16	-1°20'29
minimum elong	2547 Jun 18 10:33	27°♿49'44	3°11'47	minimum elong	2548 May 28 08:45	8°♿04'46	1°19'05
morning rise	2547 Jun 27 13:15	23°♿46'00		min. Earth dist.	2548 May 29 18:19	7°♿16'17	0.55009 AU
direct	2547 Jun 30 15:53	23°♿24'35		morning rise	2548 Jun 06 09:16	3°♿49'09	
morning max el	2547 Jul 12 15:19	29°♿01'04	21°37'44	direct	2548 Jun 10 01:52	3°♿19'48	
	2547 Jul 13 15:45	0°♿		morning max el	2548 Jun 23 09:56	9°♿46'56	23°17'25
asc. node	2547 Jul 27 02:14	19°♿33'37			2548 Jul 08 04:32	0°♿	
	2547 Aug 01 09:17	0°♿		asc. node	2548 Jul 12 23:16	9°♿00'27	
morning set	2547 Aug 02 05:13	1°♿43'08		morning set	2548 Jul 16 16:28	16°♿37'43	
					2548 Jul 22 22:12	0°♿	
superior conj	2547 Aug 09 12:11	17°♿02'49	1°41'50				
minimum elong	2547 Aug 09 10:53	16°♿56'01	1°41'46	superior conj	2548 Jul 23 17:56	1°♿45'54	1°32'14
max. Earth dist.	2547 Aug 13 09:25	25°♿01'47	1.34950 AU	minimum elong	2548 Jul 23 15:49	1°♿34'36	1°32'01
	2547 Aug 15 21:23	0°♿		max. Earth dist.	2548 Jul 26 07:01	7°♿10'47	1.33644 AU
evening rise	2547 Aug 17 18:51	3°♿40'13		evening rise	2548 Jul 31 08:40	17°♿34'51	
	2547 Sep 02 01:03	0°♿			2548 Aug 06 21:32	0°♿	
desc. node	2547 Sep 03 00:46	1°♿30'50		desc. node	2548 Aug 19 21:48	21°♿11'33	
evening max el	2547 Sep 22 00:49	25°♿40'42	26°47'35		2548 Aug 26 09:38	0°♿	
	2547 Sep 27 05:39	0°♿		evening max el	2548 Sep 03 12:39	9°♿03'31	27°20'10
retrograde	2547 Oct 05 02:14	2°♿55'53		retrograde	2548 Sep 17 00:29	16°♿21'58	
evening set	2547 Oct 11 18:21	0°♿14'08		evening set	2548 Sep 24 02:07	13°♿39'38	
	2547 Oct 12 01:09	30°♿♿		min. Earth dist.	2548 Sep 27 20:00	10°♿12'17	0.64426 AU
min. Earth dist.	2547 Oct 15 18:27	26°♿11'27	0.65804 AU	inferior conj	2548 Sep 30 04:18	7°♿41'40	-2°49'16
inferior conj	2547 Oct 17 14:10	24°♿03'14	-1°50'22	minimum elong	2548 Sep 30 08:49	7°♿29'32	2°47'40
minimum elong	2547 Oct 17 17:10	23°♿54'27	1°49'09	morning rise	2548 Oct 06 16:36	2°♿15'21	
asc. node	2547 Oct 23 01:26	18°♿43'56		asc. node	2548 Oct 08 22:28	1°♿41'33	
morning rise	2547 Oct 23 16:38	18°♿22'01		direct	2548 Oct 09 06:46	1°♿40'56	
direct	2547 Oct 26 13:10	17°♿36'50		morning max el	2548 Oct 15 18:53	5°♿07'28	17°57'45
morning max el	2547 Nov 02 02:58	21°♿11'29	18°21'54		2548 Nov 01 06:10	0°♿	
	2547 Nov 08 23:45	0°♿		morning set	2548 Nov 02 02:09	1°♿24'36	
morning set	2547 Nov 21 12:46	19°♿53'03					
	2547 Nov 27 19:42	0°♿		superior conj	2548 Nov 15 10:11	23°♿30'03	0°03'07
desc. node	2547 Nov 30 00:04	3°♿28'47		minimum elong	2548 Nov 15 10:33	23°♿31'33	0°03'03
				behind sun begin	2548 Nov 15 00:23	22°♿50'32	
superior conj	2547 Dec 06 21:03	14°♿21'01	-0°45'12	behind sun end	2548 Nov 15 20:43	24°♿12'30	
minimum elong	2547 Dec 06 15:16	13°♿58'18	0°44'26	desc. node	2548 Nov 15 21:08	24°♿14'11	
max. Earth dist.	2547 Dec 08 11:23	16°♿51'41	1.45174 AU		2548 Nov 19 11:40	0°♿	
	2547 Dec 16 20:35	0°♿		max. Earth dist.	2548 Nov 20 06:06	1°♿13'06	1.44669 AU
evening rise	2547 Dec 23 02:05	9°♿46'13		evening rise	2548 Dec 01 15:43	18°♿59'59	
greatest brilliancy	2548 Jan 02 17:41	26°♿25'24	-0.8m		2548 Dec 08 20:20	0°♿	
	2548 Jan 05 01:54	0°♿		greatest brilliancy	2548 Dec 16 01:23	10°♿48'06	-0.6m
evening max el	2548 Jan 15 07:59	13°♿41'53	19°15'16	evening max el	2548 Dec 28 12:10	27°♿11'58	20°11'01
asc. node	2548 Jan 19 00:41	16°♿43'29			2548 Dec 31 16:18	0°♿	
retrograde	2548 Jan 22 09:10	17°♿43'55		asc. node	2549 Jan 04 21:44	1°♿45'17	
evening set	2548 Jan 25 18:50	16°♿36'16		retrograde	2549 Jan 05 07:05	1°♿46'08	
inferior conj	2548 Jan 31 08:04	10°♿45'09	3°18'32	evening set	2549 Jan 09 00:54	0°♿24'35	
minimum elong	2548 Jan 31 05:52	10°♿52'14	3°18'09		2549 Jan 09 13:33	30°♿♿	
min. Earth dist.	2548 Feb 01 17:00	8°♿59'24	0.66163 AU	inferior conj	2549 Jan 14 10:51	24°♿20'05	2°49'20
morning rise	2548 Feb 05 16:39	4°♿32'44		minimum elong	2549 Jan 14 08:17	24°♿28'47	2°48'40
direct	2548 Feb 12 00:58	1°♿44'40		min. Earth dist.	2549 Jan 15 06:05	23°♿15'14	0.67116 AU

morning rise	2549 Jan 19 15:27	18°  06'33		direct	2550 Jan 09 00:36	29°  35'55	
direct	2549 Jan 25 10:21	15°  31'49			2550 Jan 11 09:05	0° 	
morning max el	2549 Feb 06 01:48	22°  28'59	24°53'32	morning max el	2550 Jan 19 10:35	5°  47'55	23°25'28
desc. node	2549 Feb 11 20:18	28°  58'13		desc. node	2550 Jan 29 17:22	18°  08'52	
	2549 Feb 12 16:21	0° 			2550 Feb 07 03:14	0° 	
	2549 Mar 05 08:39	0° 		morning set	2550 Feb 23 13:14	25°  53'23	
morning set	2549 Mar 14 04:58	15°  02'03			2550 Feb 25 23:06	0° 	
max. Earth dist.	2549 Mar 17 20:30	21°  38'15	1.37022 AU	max. Earth dist.	2550 Feb 27 15:10	2°  53'46	1.39143 AU
	2549 Mar 22 06:59	0° 					
				superior conj	2550 Mar 07 04:39	16°  33'15	-1°49'16
superior conj	2549 Mar 24 07:34	3°  55'43	-1°27'06	minimum elong	2550 Mar 07 08:55	16°  53'07	1°48'53
minimum elong	2549 Mar 24 11:45	4°  16'16	1°26'30		2550 Mar 14 05:54	0° 	
evening rise	2549 Apr 01 17:44	20°  45'21		evening rise	2550 Mar 16 12:30	4°  24'22	
asc. node	2549 Apr 02 21:02	23°  01'38		asc. node	2550 Mar 20 18:06	12°  29'12	
	2549 Apr 06 11:03	0° 			2550 Apr 01 03:45	0° 	
evening max el	2549 Apr 18 18:25	18°  22'21	19°26'42	evening max el	2550 Apr 01 19:17	0°  39'05	18°40'20
retrograde	2549 Apr 28 03:16	22°  54'26		retrograde	2550 Apr 09 17:45	4°  31'48	
evening set	2549 Apr 30 04:11	22°  42'30		evening set	2550 Apr 12 00:22	4°  13'50	
inferior conj	2549 May 08 17:20	18°  36'25	0°36'07	inferior conj	2550 Apr 19 17:49	29°  49'59	2°07'58
minimum elong	2549 May 08 18:51	18°  33'58	0°35'35	minimum elong	2550 Apr 19 21:40	29°  42'41	2°06'51
desc. node	2549 May 10 19:29	17°  15'06			2550 Apr 19 12:30	30°  R 	
min. Earth dist.	2549 May 11 08:53	16°  53'51	0.55964 AU	min. Earth dist.	2550 Apr 23 02:23	27°  19'01	0.57660 AU
morning rise	2549 May 17 06:40	13°  53'39		morning rise	2550 Apr 27 15:49	24°  33'45	
direct	2549 May 21 21:42	13°  05'03		desc. node	2550 Apr 27 16:31	24°  32'56	
morning max el	2549 Jun 05 00:24	20°  13'36	24°58'45	direct	2550 May 03 07:49	23°  13'52	
	2549 Jun 13 08:42	0° 			2550 May 16 20:07	0° 	
asc. node	2549 Jun 29 20:19	28°  14'54		morning max el	2550 May 17 16:29	0°  48'21	26°26'20
	2549 Jun 30 10:33	0° 			2550 Jun 07 07:14	0° 	
morning set	2549 Jul 01 04:17	1°  53'17		morning set	2550 Jun 15 15:04	16°  12'43	
				asc. node	2550 Jun 16 17:22	18°  14'00	
					2550 Jun 21 21:35	0° 	
superior conj	2549 Jul 08 03:33	16°  53'12	1°17'35				
minimum elong	2549 Jul 08 01:09	16°  52'10	1°17'14	superior conj	2550 Jun 22 15:04	1°  53'13	0°58'43
max. Earth dist.	2549 Jul 09 12:33	19°  58'52	1.32749 AU	minimum elong	2550 Jun 22 12:53	1°  52'12	0°58'19
	2549 Jul 14 09:17	0° 		max. Earth dist.	2550 Jun 22 23:12	2°  52'01	1.32256 AU
evening rise	2549 Jul 15 07:51	1°  56'22		evening rise	2550 Jun 29 13:26	16°  53'42	
	2549 Jul 30 18:45	0° 			2550 Jul 06 07:06	0° 	
desc. node	2549 Aug 06 18:50	10°  14'24		desc. node	2550 Jul 24 15:51	28°  12'53	
evening max el	2549 Aug 16 22:06	21°  59'17	27°23'48		2550 Jul 26 00:45	0° 	
retrograde	2549 Aug 30 16:30	29°  16'02		evening max el	2550 Jul 30 02:46	4°  16'10	26°54'32
evening set	2549 Sep 06 21:22	26°  14'55		retrograde	2550 Aug 13 01:01	11°  29'00	
min. Earth dist.	2549 Sep 10 11:43	23°  14'19	0.62708 AU	evening set	2550 Aug 19 23:46	9°  22'26	
inferior conj	2549 Sep 13 08:03	21°  03'37	-3°44'43	min. Earth dist.	2550 Aug 23 16:58	6°  43'18	0.60736 AU
minimum elong	2549 Sep 13 13:31	20°  50'29	3°43'13	inferior conj	2550 Aug 26 22:07	4°  00'54	-4°31'01
morning rise	2549 Sep 20 07:09	15°  55'24		minimum elong	2550 Aug 27 03:06	3°  50'22	4°30'08
direct	2549 Sep 22 17:35	15°  28'20			2550 Sep 01 11:33	30°  R 	
asc. node	2549 Sep 25 19:31	16°  12'51		morning rise	2550 Sep 03 08:16	29°  13'40	
morning max el	2549 Sep 29 10:58	18°  55'02	17°51'26	direct	2550 Sep 05 17:54	28°  15'03	
	2549 Oct 07 12:48	0° 			2550 Sep 09 20:08	0° 	
morning set	2549 Oct 15 14:35	14°  02'18		asc. node	2550 Sep 12 16:35	2°  10'25	
	2549 Oct 24 17:22	0° 		morning max el	2550 Sep 13 00:04	2°  26'15	18°03'57
				morning set	2550 Sep 28 19:48	27°  17'55	
superior conj	2549 Oct 27 00:27	3°  53'56	0°45'08		2550 Sep 30 04:29	0° 	
minimum elong	2549 Oct 27 04:25	4°  10'40	0°44'36				
desc. node	2549 Nov 02 18:10	15°  10'14		superior conj	2550 Oct 08 17:06	15°  53'47	1°15'57
max. Earth dist.	2549 Nov 02 21:30	15°  15'13	1.43493 AU	minimum elong	2550 Oct 08 21:23	15°  53'48	1°15'29
evening rise	2549 Nov 11 00:49	28°  08'10		max. Earth dist.	2550 Oct 16 08:09	28°  54'11	1.41798 AU
	2549 Nov 12 05:44	0° 			2550 Oct 17 02:20	0° 	
	2549 Dec 02 16:06	0° 		desc. node	2550 Oct 20 15:11	5°  14'57	
evening max el	2549 Dec 11 10:51	10°  43'30	21°19'27	evening rise	2550 Oct 21 22:00	7°  15'01	
retrograde	2549 Dec 20 04:42	15°  55'04			2550 Nov 05 10:05	0° 	
asc. node	2549 Dec 22 18:46	15°  18'10		evening max el	2550 Nov 24 04:23	24°  16'43	22°36'26
evening set	2549 Dec 24 08:30	14°  18'15			2550 Dec 02 19:01	0° 	
inferior conj	2549 Dec 29 17:01	8°  03'34	2°11'36	retrograde	2550 Dec 04 00:13	0°  06'57	
minimum elong	2549 Dec 29 14:34	8°  12'00	2°10'47		2550 Dec 05 04:35	30°  R 	
min. Earth dist.	2549 Dec 30 00:03	7°  39'17	0.67680 AU	evening set	2550 Dec 08 15:54	28°  13'36	
morning rise	2550 Jan 03 20:28	1°  50'50		asc. node	2550 Dec 09 15:49	27°  19'12	
	2550 Jan 06 19:09	30°  R 					

inferior conj	2550 Dec 14 00:32	21° ♊ 52'19	1°26'54	minimum elong	2551 Nov 28 06:47	5° ♊ 47'24	0°36'09
minimum elong	2550 Dec 13 22:41	21° ♊ 58'43	1°26'10		2551 Dec 03 05:38	30° ♋	
min. Earth dist.	2550 Dec 13 20:24	22° ♊ 06'36	0.67881 AU	morning rise	2551 Dec 03 16:02	29° ♋ 39'19	
morning rise	2550 Dec 19 05:20	15° ♊ 42'18		direct	2551 Dec 07 15:31	28° ♋ 09'41	
direct	2550 Dec 23 18:40	13° ♊ 50'08			2551 Dec 12 11:23	0° ♋	
morning max el	2551 Jan 01 22:43	19° ♊ 13'12	21°58'27	morning max el	2551 Dec 15 17:38	2° ♊ 49'23	20°39'46
	2551 Jan 10 22:12	0° ♋		desc. node	2552 Jan 03 11:27	27° ♊ 57'59	
desc. node	2551 Jan 16 14:25	7° ♋ 51'43			2552 Jan 04 20:03	0° ♋	
	2551 Jan 31 07:55	0° ♋		morning set	2552 Jan 13 19:00	13° ♋ 41'13	
morning set	2551 Feb 03 16:34	5° ♋ 20'34		max. Earth dist.	2552 Jan 22 19:02	27° ♋ 57'00	1.43133 AU
max. Earth dist.	2551 Feb 09 13:17	14° ♋ 56'57	1.41280 AU		2552 Jan 24 01:20	0° ♋	
superior conj	2551 Feb 17 06:58	28° ♋ 14'47	-2°03'17	superior conj	2552 Jan 29 09:24	8° ♋ 48'43	-2°04'14
minimum elong	2551 Feb 17 09:17	28° ♋ 24'59	2°03'12	minimum elong	2552 Jan 29 07:05	8° ♋ 39'01	2°04'11
	2551 Feb 18 06:43	0° ♌		evening rise	2552 Feb 10 11:42	29° ♋ 42'56	
evening rise	2551 Feb 27 19:49	17° ♌ 26'16			2552 Feb 10 15:33	0° ♌	
	2551 Mar 06 17:37	0° ♌		asc. node	2552 Feb 22 12:08	20° ♌ 03'54	
asc. node	2551 Mar 07 15:07	1° ♌ 32'29		evening max el	2552 Feb 27 14:53	26° ♌ 31'23	18°07'22
evening max el	2551 Mar 16 03:11	13° ♌ 24'59	18°14'02	retrograde	2552 Mar 05 03:35	29° ♌ 54'45	
retrograde	2551 Mar 23 03:00	16° ♌ 55'13		evening set	2552 Mar 07 21:49	29° ♌ 17'53	
evening set	2551 Mar 25 15:50	16° ♌ 28'28		inferior conj	2552 Mar 14 07:22	24° ♌ 12'20	3°35'16
inferior conj	2551 Apr 01 15:25	11° ♌ 43'38	3°06'26	minimum elong	2552 Mar 14 08:47	24° ♌ 08'44	3°35'09
minimum elong	2551 Apr 01 18:41	11° ♌ 36'26	3°05'49	min. Earth dist.	2552 Mar 17 07:00	21° ♌ 12'04	0.61890 AU
min. Earth dist.	2551 Apr 05 00:49	8° ♌ 45'36	0.59749 AU	morning rise	2552 Mar 20 18:18	18° ♌ 14'39	
morning rise	2551 Apr 08 19:10	6° ♌ 01'59		direct	2552 Mar 27 15:18	15° ♌ 47'15	
desc. node	2551 Apr 14 13:33	4° ♌ 07'18		desc. node	2552 Mar 31 10:36	16° ♌ 28'09	
direct	2551 Apr 15 06:25	4° ♌ 05'57		morning max el	2552 Apr 10 18:18	23° ♌ 43'11	27°50'04
morning max el	2551 Apr 29 14:13	11° ♌ 54'41	27°26'14		2552 Apr 16 09:43	0° ♌	
	2551 May 13 18:51	0° ♍			2552 May 06 01:13	0° ♍	
	2551 May 30 10:22	0° ♍		morning set	2552 May 14 02:29	15° ♍ 31'03	
morning set	2551 May 30 23:09	1° ♍ 06'14		max. Earth dist.	2552 May 19 21:06	27° ♍ 41'15	1.32435 AU
asc. node	2551 Jun 03 14:25	8° ♍ 49'58		asc. node	2552 May 20 11:26	28° ♍ 58'53	
max. Earth dist.	2551 Jun 06 11:25	15° ♍ 06'36	1.32148 AU		2552 May 20 22:41	0° ♍	
superior conj	2551 Jun 07 02:44	16° ♍ 30'50	0°36'20	superior conj	2552 May 21 12:48	1° ♍ 16'50	0°11'08
minimum elong	2551 Jun 07 01:11	16° ♍ 22'21	0°36'02	minimum elong	2552 May 21 12:17	1° ♍ 14'00	0°11'01
	2551 Jun 13 07:04	0° ♎		behind sun begin	2552 May 21 08:34	0° ♍ 53'42	
evening rise	2551 Jun 13 23:03	1° ♎ 24'58		behind sun end	2552 May 21 16:00	1° ♍ 34'18	
	2551 Jun 29 11:04	0° ♎		evening rise	2552 May 28 10:37	16° ♍ 16'32	
desc. node	2551 Jul 11 12:50	15° ♎ 18'15			2552 Jun 04 06:00	0° ♎	
evening max el	2551 Jul 12 00:27	15° ♎ 46'20	25°53'09	evening max el	2552 Jun 22 15:28	26° ♎ 33'09	24°27'18
retrograde	2551 Jul 26 00:19	22° ♎ 55'11			2552 Jun 26 18:11	0° ♎	
evening set	2551 Aug 01 04:36	21° ♎ 23'59		desc. node	2552 Jun 27 09:51	0° ♎ 26'57	
min. Earth dist.	2551 Aug 05 12:49	18° ♎ 46'41	0.58676 AU	retrograde	2552 Jul 06 12:39	3° ♎ 34'07	
inferior conj	2551 Aug 08 18:59	16° ♎ 24'01	-4°58'49	evening set	2552 Jul 11 09:35	2° ♎ 40'55	
minimum elong	2551 Aug 08 21:03	16° ♎ 20'14	4°58'42		2552 Jul 16 18:10	30° ♏	
morning rise	2551 Aug 16 15:42	11° ♎ 59'46		min. Earth dist.	2552 Jul 17 02:24	29° ♎ 47'20	0.56790 AU
direct	2551 Aug 19 03:24	11° ♎ 39'31		inferior conj	2552 Jul 19 19:50	28° ♎ 03'18	-4°54'39
morning max el	2551 Aug 27 07:04	15° ♎ 32'55	18°36'43	minimum elong	2552 Jul 19 16:34	28° ♎ 08'30	4°54'23
asc. node	2551 Aug 30 13:38	19° ♎ 13'47		morning rise	2552 Jul 28 02:15	24° ♎ 00'08	
	2551 Sep 06 10:39	0° ♏		direct	2552 Jul 30 17:59	23° ♎ 40'59	
morning set	2551 Sep 12 12:54	11° ♏ 28'12		morning max el	2552 Aug 09 04:53	28° ♎ 04'54	19°30'49
					2552 Aug 11 01:53	0° ♏	
superior conj	2551 Sep 21 07:39	28° ♏ 20'41	1°35'08	asc. node	2552 Aug 16 10:41	7° ♏ 13'19	
minimum elong	2551 Sep 21 10:30	28° ♏ 34'01	1°34'54	morning set	2552 Aug 26 14:11	25° ♏ 52'08	
	2551 Sep 22 04:56	0° ♏			2552 Aug 28 15:27	0° ♏	
max. Earth dist.	2551 Sep 28 14:14	11° ♏ 32'03	1.39798 AU	superior conj	2552 Sep 03 14:28	11° ♏ 54'57	1°44'07
evening rise	2551 Oct 02 17:27	18° ♏ 37'41		minimum elong	2552 Sep 03 15:28	11° ♏ 59'53	1°44'04
desc. node	2551 Oct 07 12:12	26° ♏ 29'33		max. Earth dist.	2552 Sep 09 18:13	23° ♏ 40'13	1.37744 AU
	2551 Oct 09 17:04	0° ♐			2552 Sep 13 05:58	0° ♏	
	2551 Oct 30 18:52	0° ♐		evening rise	2552 Sep 13 12:26	0° ♏ 28'41	
evening max el	2551 Nov 06 18:12	7° ♐ 53'05	23°56'22	desc. node	2552 Sep 23 09:12	17° ♏ 01'43	
retrograde	2551 Nov 17 16:29	14° ♐ 18'51			2552 Oct 01 23:11	0° ♐	
evening set	2551 Nov 22 21:32	12° ♐ 08'36		evening max el	2552 Oct 19 06:16	21° ♐ 32'02	25°12'43
asc. node	2551 Nov 26 12:50	8° ♐ 07'55		retrograde	2552 Oct 31 04:33	28° ♐ 25'48	
min. Earth dist.	2551 Nov 27 16:50	6° ♐ 34'42	0.67738 AU	evening set	2552 Nov 05 23:45	26° ♐ 00'00	
inferior conj	2551 Nov 28 07:39	5° ♐ 44'28	0°36'31				

min. Earth dist.	2552 Nov 10 11:02	21° \mathbb{M} 00'32	0.67253 AU	evening set	2553 Oct 20 20:39	9° \mathbb{M} 44'48	
inferior conj	2552 Nov 11 12:35	19° \mathbb{M} 37'17	-0°18'20	min. Earth dist.	2553 Oct 25 00:39	5° \mathbb{M} 21'02	0.66429 AU
minimum elong	2552 Nov 11 13:03	19° \mathbb{M} 35'46	0°18'08	inferior conj	2553 Oct 26 13:30	3° \mathbb{M} 28'02	-1°16'18
asc. node	2552 Nov 12 09:53	18° \mathbb{M} 28'25		minimum elong	2553 Oct 26 15:32	3° \mathbb{M} 21'47	1°15'26
morning rise	2552 Nov 17 02:34	13° \mathbb{M} 39'13			2553 Oct 29 13:48	30° \mathbb{R} $\underline{\mathbb{A}}$	
direct	2552 Nov 20 13:50	12° \mathbb{M} 29'47		asc. node	2553 Oct 30 06:57	29° $\underline{\mathbb{A}}$ 18'14	
morning max el	2552 Nov 27 20:28	16° \mathbb{M} 36'16	19°33'59	morning rise	2553 Nov 01 10:56	27° $\underline{\mathbb{A}}$ 39'41	
	2552 Dec 08 05:28	0° \mathbb{X}		direct	2553 Nov 04 12:06	26° $\underline{\mathbb{A}}$ 46'49	
greatest brilliancy	2552 Dec 11 01:57	4° \mathbb{X} 13'06	-0.7m		2553 Nov 10 17:38	0° \mathbb{M}	
desc. node	2552 Dec 20 08:29	18° \mathbb{X} 20'48		morning max el	2553 Nov 11 06:11	0° \mathbb{M} 30'39	18°43'26
morning set	2552 Dec 22 16:12	21° \mathbb{X} 55'52			2553 Dec 01 14:02	0° \mathbb{X}	
	2552 Dec 27 20:56	0° \mathbb{Z}		morning set	2553 Dec 02 08:21	1° \mathbb{X} 12'25	
max. Earth dist.	2553 Jan 04 07:38	11° \mathbb{Z} 41'39	1.44459 AU	desc. node	2553 Dec 07 05:30	8° \mathbb{X} 55'05	
				max. Earth dist.	2553 Dec 18 00:47	25° \mathbb{X} 53'54	1.45119 AU
superior conj	2553 Jan 08 09:36	18° \mathbb{Z} 12'07	-1°47'21				
minimum elong	2553 Jan 08 01:54	17° \mathbb{Z} 41'17	1°46'46	superior conj	2553 Dec 18 14:19	26° \mathbb{X} 47'01	-1°11'43
	2553 Jan 15 15:47	0° \approx		minimum elong	2553 Dec 18 05:55	26° \mathbb{X} 14'03	1°10'44
evening rise	2553 Jan 22 07:47	11° \approx 06'13			2553 Dec 20 15:25	0° \mathbb{Z}	
	2553 Feb 02 18:01	0° \mathbb{H}		evening rise	2554 Jan 03 04:44	21° \mathbb{Z} 31'03	
asc. node	2553 Feb 08 09:10	7° \mathbb{H} 53'54			2554 Jan 08 11:28	0° \approx	
evening max el	2553 Feb 10 03:27	9° \mathbb{H} 50'54	18°19'44	greatest brilliancy	2554 Jan 10 13:12	3° \approx 19'07	-0.9m
retrograde	2553 Feb 16 14:45	13° \mathbb{H} 20'42		evening max el	2554 Jan 24 14:21	23° \approx 17'07	18°50'14
evening set	2553 Feb 19 14:19	12° \mathbb{H} 32'46		asc. node	2554 Jan 26 06:13	24° \approx 49'42	
inferior conj	2553 Feb 25 13:34	7° \mathbb{H} 08'09	3°41'22	retrograde	2554 Jan 31 08:24	27° \approx 04'29	
minimum elong	2553 Feb 25 13:10	7° \mathbb{H} 09'17	3°41'22	evening set	2554 Feb 03 14:01	26° \approx 04'29	
min. Earth dist.	2553 Feb 27 22:44	4° \mathbb{H} 26'44	0.63828 AU	inferior conj	2554 Feb 09 06:10	20° \approx 22'37	3°30'39
morning rise	2553 Mar 03 11:15	1° \mathbb{H} 01'33		minimum elong	2554 Feb 09 04:27	20° \approx 27'56	3°30'26
	2553 Mar 04 20:59	30° \mathbb{R} \approx		min. Earth dist.	2554 Feb 10 23:48	18° \approx 14'09	0.65424 AU
direct	2553 Mar 10 08:43	28° \approx 14'47		morning rise	2554 Feb 14 18:29	14° \approx 11'35	
	2553 Mar 16 08:31	0° \mathbb{H}		direct	2554 Feb 21 09:12	11° \approx 19'56	
desc. node	2553 Mar 18 07:39	1° \mathbb{H} 13'09		desc. node	2554 Mar 05 04:42	17° \approx 45'58	
morning max el	2553 Mar 24 02:43	6° \mathbb{H} 10'20	27°36'46	morning max el	2554 Mar 06 12:30	19° \approx 03'38	26°51'01
	2553 Apr 11 06:47	0° \mathbb{Y}			2554 Mar 15 19:38	0° \mathbb{H}	
morning set	2553 Apr 27 22:43	29° \mathbb{Y} 31'36			2554 Apr 04 06:52	0° \mathbb{Y}	
	2553 Apr 28 04:26	0° \mathbb{Z}		morning set	2554 Apr 11 08:32	12° \mathbb{Y} 56'53	
max. Earth dist.	2553 May 03 00:16	9° \mathbb{Z} 52'14	1.33142 AU	max. Earth dist.	2554 Apr 15 17:06	21° \mathbb{Y} 29'23	1.34301 AU
superior conj	2553 May 05 19:31	15° \mathbb{Z} 48'42	-0°16'08	superior conj	2554 Apr 19 20:44	29° \mathbb{Y} 59'04	-0°44'23
minimum elong	2553 May 05 20:20	15° \mathbb{Z} 52'59	0°15'58	minimum elong	2554 Apr 19 23:00	0° \mathbb{Z} 10'55	0°43'56
asc. node	2553 May 07 08:28	19° \mathbb{Z} 06'55			2554 Apr 19 20:54	0° \mathbb{Z}	
	2553 May 12 10:08	0° \mathbb{I}		asc. node	2554 Apr 24 05:30	9° \mathbb{Z} 09'21	
evening rise	2553 May 12 22:18	1° \mathbb{I} 04'22		evening rise	2554 Apr 27 08:11	15° \mathbb{Z} 41'24	
	2553 May 29 04:23	0° \mathbb{E}			2554 May 04 14:22	0° \mathbb{I}	
evening max el	2553 Jun 04 05:20	7° \mathbb{E} 00'52	22°51'06	evening max el	2554 May 17 01:49	17° \mathbb{I} 41'26	21°19'27
desc. node	2553 Jun 14 06:50	13° \mathbb{E} 14'25		retrograde	2554 May 29 02:52	23° \mathbb{I} 34'58	
retrograde	2553 Jun 17 12:47	13° \mathbb{E} 38'31		evening set	2554 May 31 10:33	23° \mathbb{I} 22'37	
evening set	2553 Jun 20 21:37	13° \mathbb{E} 13'37		desc. node	2554 Jun 01 03:53	23° \mathbb{I} 13'56	
min. Earth dist.	2553 Jun 28 13:57	9° \mathbb{E} 49'48	0.55425 AU	inferior conj	2554 Jun 09 20:02	19° \mathbb{I} 23'22	-2°28'39
inferior conj	2553 Jun 30 01:36	8° \mathbb{E} 58'27	-4°04'52	minimum elong	2554 Jun 09 13:19	19° \mathbb{I} 32'47	2°26'24
minimum elong	2553 Jun 29 17:54	9° \mathbb{E} 09'35	4°03'08	min. Earth dist.	2554 Jun 10 01:52	19° \mathbb{I} 15'09	0.54888 AU
morning rise	2553 Jul 08 16:33	5° \mathbb{E} 06'30		morning rise	2554 Jun 18 16:31	15° \mathbb{I} 25'16	
direct	2553 Jul 11 13:56	4° \mathbb{E} 46'58		direct	2554 Jun 22 00:05	15° \mathbb{I} 01'24	
morning max el	2553 Jul 22 15:28	9° \mathbb{E} 54'47	20°46'00	morning max el	2554 Jul 04 14:53	21° \mathbb{I} 00'33	22°18'56
asc. node	2553 Aug 03 07:44	25° \mathbb{E} 54'32			2554 Jul 12 05:28	0° \mathbb{E}	
	2553 Aug 05 13:25	0° \mathbb{O}		asc. node	2554 Jul 21 04:47	15° \mathbb{E} 06'51	
morning set	2553 Aug 10 20:57	10° \mathbb{O} 32'33		morning set	2554 Jul 26 07:06	25° \mathbb{E} 23'14	
					2554 Jul 28 11:34	0° \mathbb{O}	
superior conj	2553 Aug 18 08:54	26° \mathbb{O} 04'08	1°44'41	superior conj	2554 Aug 02 11:19	10° \mathbb{O} 37'07	1°38'26
minimum elong	2553 Aug 18 08:18	26° \mathbb{O} 01'05	1°44'40	minimum elong	2554 Aug 02 09:37	10° \mathbb{O} 28'04	1°38'19
	2553 Aug 20 07:21	0° \mathbb{P}		max. Earth dist.	2554 Aug 05 18:07	17° \mathbb{O} 28'31	1.34349 AU
max. Earth dist.	2553 Aug 23 01:53	5° \mathbb{P} 30'24	1.35878 AU	evening rise	2554 Aug 10 10:27	26° \mathbb{O} 51'38	
evening rise	2553 Aug 27 03:38	13° \mathbb{P} 17'28			2554 Aug 12 01:34	0° \mathbb{P}	
	2553 Sep 05 16:14	0° $\underline{\mathbb{A}}$		desc. node	2554 Aug 29 03:12	27° \mathbb{P} 16'08	
desc. node	2553 Sep 10 06:11	7° $\underline{\mathbb{A}}$ 19'26			2554 Aug 29 23:46	0° $\underline{\mathbb{A}}$	
	2553 Sep 26 21:11	0° \mathbb{M}		evening max el	2554 Sep 14 06:47	18° $\underline{\mathbb{A}}$ 44'30	27°04'41
evening max el	2553 Oct 01 18:20	5° \mathbb{M} 11'32	26°18'02	retrograde	2554 Sep 27 13:28	26° $\underline{\mathbb{A}}$ 01'58	
retrograde	2553 Oct 14 11:47	12° \mathbb{M} 22'25					


































































































































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min. Earth dist.	2554 Oct 08 07:24	19°♄31'24	0.65256 AU	evening max el	2555 Aug 27 18:08	1°♄58'12 27°25'36
inferior conj	2554 Oct 10 08:19	17°♄12'58	-2°15'32	retrograde	2555 Sep 10 08:59	9°♄15'24
minimum elong	2554 Oct 10 12:00	17°♄02'33	2°14'07	evening set	2555 Sep 17 12:55	6°♄36'36
morning rise	2554 Oct 16 14:48	11°♄37'24		min. Earth dist.	2555 Sep 21 04:58	3°♄22'45 0.63736 AU
asc. node	2554 Oct 17 04:00	11°♄22'56		inferior conj	2555 Sep 23 18:27	0°♄45'31 -3°13'29
direct	2554 Oct 19 08:16	10°♄57'15		minimum elong	2555 Sep 23 23:29	0°♄32'36 3°11'51
morning max el	2554 Oct 25 20:36	14°♄27'42	18°09'27		2555 Sep 24 12:19	30°♄
	2554 Nov 05 22:49	0°♄		morning rise	2555 Sep 30 11:14	25°♄26'16
morning set	2554 Nov 13 05:51	11°♄57'43		direct	2555 Oct 02 23:35	24°♄55'12
desc. node	2554 Nov 24 02:31	29°♄37'21		asc. node	2555 Oct 04 01:03	25°♄00'51
	2554 Nov 24 08:11	0°♄		morning max el	2555 Oct 09 12:55	28°♄20'40 17°52'48
					2555 Oct 11 01:36	0°♄
superior conj	2554 Nov 27 18:20	5°♄27'00	-0°24'32	morning set	2555 Oct 26 05:54	24°♄00'10
minimum elong	2554 Nov 27 15:13	5°♄14'36	0°24'06		2555 Oct 29 17:30	0°♄
max. Earth dist.	2554 Nov 30 19:57	10°♄17'42	1.45046 AU			
	2554 Dec 13 10:56	0°♄		superior conj	2555 Nov 07 17:16	15°♄05'13 0°22'08
evening rise	2554 Dec 14 03:38	1°♄04'51		minimum elong	2555 Nov 07 19:37	15°♄14'52 0°21'48
greatest brilliancy	2554 Dec 26 19:34	20°♄33'57	-0.7m	desc. node	2555 Nov 10 23:33	20°♄23'47
	2555 Jan 02 08:02	0°♄		max. Earth dist.	2555 Nov 13 14:06	24°♄34'49 1.44250 AU
evening max el	2555 Jan 07 21:31	6°♄46'43	19°37'20		2555 Nov 17 00:11	0°♄
asc. node	2555 Jan 13 03:16	10°♄37'21		evening rise	2555 Nov 23 13:22	10°♄11'24
retrograde	2555 Jan 15 05:24	11°♄01'12			2555 Dec 06 16:27	0°♄
evening set	2555 Jan 18 18:23	9°♄47'48		evening max el	2555 Dec 21 23:27	20°♄17'18 20°38'47
inferior conj	2555 Jan 24 05:59	3°♄50'55	3°07'20	retrograde	2555 Dec 30 03:22	25°♄06'27
minimum elong	2555 Jan 24 03:34	3°♄58'54	3°06'48	asc. node	2555 Dec 31 00:19	25°♄02'12
min. Earth dist.	2555 Jan 25 08:57	2°♄22'18	0.66619 AU	evening set	2556 Jan 03 01:19	23°♄38'22
	2555 Jan 27 06:25	30°♄		inferior conj	2556 Jan 08 10:27	17°♄29'08 2°34'15
morning rise	2555 Jan 29 12:31	27°♄37'59		minimum elong	2556 Jan 08 07:52	17°♄37'57 2°33'29
direct	2555 Feb 04 15:34	24°♄54'18		min. Earth dist.	2556 Jan 09 00:16	16°♄41'56 0.67408 AU
	2555 Feb 14 14:21	0°♄		morning rise	2556 Jan 13 14:15	11°♄15'59
morning max el	2555 Feb 16 21:37	2°♄11'48	25°40'58	direct	2556 Jan 19 02:59	8°♄49'15
desc. node	2555 Feb 20 01:45	5°♄36'30		morning max el	2556 Jan 30 06:04	15°♄27'29 24°16'33
	2555 Mar 09 23:03	0°♄		desc. node	2556 Feb 06 22:48	24°♄22'11
morning set	2555 Mar 25 03:38	25°♄34'20			2556 Feb 11 04:53	0°♄
	2555 Mar 27 12:59	0°♄			2556 Mar 01 21:48	0°♄
max. Earth dist.	2555 Mar 28 22:20	2°♄37'37	1.35918 AU	morning set	2556 Mar 06 02:23	7°♄08'33
				max. Earth dist.	2556 Mar 09 19:16	13°♄41'51 1.37904 AU
superior conj	2555 Apr 03 13:48	13°♄40'35	-1°12'09			
minimum elong	2555 Apr 03 17:26	13°♄58'52	1°11'33	superior conj	2556 Mar 16 19:21	26°♄44'08 -1°37'14
asc. node	2555 Apr 11 02:33	29°♄02'06		minimum elong	2556 Mar 16 23:46	27°♄05'16 1°36'42
evening rise	2555 Apr 11 14:12	0°♄01'30			2556 Mar 18 11:56	0°♄
	2555 Apr 11 13:54	0°♄		evening rise	2556 Mar 25 13:55	13°♄57'40
evening max el	2555 Apr 29 09:36	28°♄56'40	20°02'25	asc. node	2556 Mar 27 23:36	18°♄40'26
	2555 Apr 30 13:12	0°♄			2556 Apr 03 03:59	0°♄
retrograde	2555 May 09 17:31	3°♄57'00		evening max el	2556 Apr 11 04:48	10°♄51'48 19°04'31
evening set	2555 May 11 17:40	3°♄46'30		retrograde	2556 Apr 19 21:42	15°♄05'31
desc. node	2555 May 19 00:56	0°♄46'19		evening set	2556 Apr 22 00:49	14°♄51'23
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inferior conj	2555 May 20 17:01	29°♄46'56	-0°29'22	minimum elong	2556 Apr 30 08:30	10°♄32'57 1°18'03
minimum elong	2555 May 20 15:40	29°♄48'58	0°28'51	min. Earth dist.	2556 May 03 06:19	8°♄33'13 0.56608 AU
min. Earth dist.	2555 May 22 14:58	28°♄38'01	0.55315 AU	desc. node	2556 May 04 21:58	7°♄30'18
morning rise	2555 May 29 11:49	25°♄24'18		morning rise	2556 May 08 13:07	5°♄40'41
direct	2555 Jun 02 13:29	24°♄48'07		direct	2556 May 13 14:50	4°♄40'21
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	2555 Jul 05 16:56	0°♄		asc. node	2556 Jun 23 22:51	24°♄34'00
asc. node	2555 Jul 08 01:48	4°♄42'08		morning set	2556 Jun 24 06:25	25°♄13'51
morning set	2555 Jul 10 18:47	10°♄18'40			2556 Jun 26 11:57	0°♄
superior conj	2555 Jul 17 18:57	25°♄25'01	1°26'34	superior conj	2556 Jul 01 05:37	10°♄21'03 1°10'04
minimum elong	2555 Jul 17 16:39	25°♄12'38	1°26'18	minimum elong	2556 Jul 01 03:15	10°♄08'07 1°09'41
	2555 Jul 19 22:05	0°♄		max. Earth dist.	2556 Jul 02 03:59	12°♄23'33 1.32493 AU
max. Earth dist.	2555 Jul 19 19:34	29°♄46'37	1.33221 AU	evening rise	2556 Jul 08 06:55	25°♄29'25
evening rise	2555 Jul 25 04:40	10°♄58'53			2556 Jul 10 11:58	0°♄
	2555 Aug 04 08:32	0°♄			2556 Jul 27 21:50	0°♄
desc. node	2555 Aug 15 00:15	16°♄42'13		desc. node	2556 Jul 31 21:16	5°♄25'01

evening max el	2556 Aug 09 01:52	14° \mathbb{M} 39'02	27°15'21		2557 Jul 26 04:54	0° \mathbb{M}	
retrograde	2556 Aug 22 21:42	21° \mathbb{M} 53'44		retrograde	2557 Aug 05 02:46	3° \mathbb{M} 47'29	
evening set	2556 Aug 30 01:36	19° \mathbb{M} 31'12		evening set	2557 Aug 11 19:24	1° \mathbb{M} 54'35	
min. Earth dist.	2556 Sep 02 16:01	16° \mathbb{M} 43'31	0.61904 AU		2557 Aug 14 18:39	30° \mathbb{R} \mathbb{Q}	
inferior conj	2556 Sep 05 16:50	13° \mathbb{M} 58'19	-4°05'54	min. Earth dist.	2557 Aug 15 16:53	29° \mathbb{Q} 18'39	0.59860 AU
minimum elong	2556 Sep 05 22:20	13° \mathbb{M} 45'48	4°04'35	inferior conj	2557 Aug 18 23:57	26° \mathbb{Q} 41'50	-4°45'47
morning rise	2556 Sep 12 20:40	8° \mathbb{M} 58'50		minimum elong	2557 Aug 19 04:02	26° \mathbb{Q} 33'41	4°45'14
direct	2556 Sep 15 06:30	8° \mathbb{M} 33'53		morning rise	2557 Aug 26 14:45	22° \mathbb{Q} 04'40	
asc. node	2556 Sep 19 22:05	10° \mathbb{M} 09'53		direct	2557 Aug 29 00:52	21° \mathbb{Q} 43'22	
morning max el	2556 Sep 22 04:09	12° \mathbb{M} 02'39	17°54'22	morning max el	2557 Sep 05 15:06	25° \mathbb{Q} 24'51	18°15'20
	2556 Oct 04 04:55	0° \mathbb{L}		asc. node	2557 Sep 06 19:07	26° \mathbb{Q} 36'52	
morning set	2556 Oct 08 02:09	7° \mathbb{L} 00'16			2557 Sep 09 12:47	0° \mathbb{M}	
				morning set	2557 Sep 21 12:54	20° \mathbb{M} 41'40	
					2557 Sep 26 11:00	0° \mathbb{L}	
superior conj	2556 Oct 18 19:10	26° \mathbb{L} 03'12	0°59'40				
minimum elong	2556 Oct 18 23:36	26° \mathbb{L} 22'15	0°59'07				
	2556 Oct 21 02:35	0° \mathbb{M}		superior conj	2557 Sep 30 21:51	8° \mathbb{L} 13'49	1°25'26
max. Earth dist.	2556 Oct 26 04:00	8° \mathbb{M} 25'50	1.42831 AU	minimum elong	2557 Oct 01 01:38	8° \mathbb{L} 31'03	1°25'03
desc. node	2556 Oct 27 20:36	11° \mathbb{M} 11'06		max. Earth dist.	2557 Oct 08 12:03	21° \mathbb{L} 35'48	1.40971 AU
evening rise	2556 Nov 02 01:48	19° \mathbb{M} 30'04		evening rise	2557 Oct 13 07:43	29° \mathbb{L} 38'06	
	2556 Nov 08 21:22	0° \mathbb{X}			2557 Oct 13 13:05	0° \mathbb{M}	
	2556 Nov 30 09:09	0° \mathbb{Z}		desc. node	2557 Oct 14 17:36	1° \mathbb{M} 55'45	
evening max el	2556 Dec 03 19:44	3° \mathbb{Z} 48'40	21°51'20		2557 Nov 02 10:04	0° \mathbb{X}	
retrograde	2556 Dec 13 00:20	9° \mathbb{Z} 16'57		evening max el	2557 Nov 16 11:17	17° \mathbb{X} 22'37	23°10'24
asc. node	2556 Dec 16 21:21	7° \mathbb{Z} 55'10		retrograde	2557 Nov 26 18:46	23° \mathbb{X} 29'23	
evening set	2556 Dec 17 09:01	7° \mathbb{Z} 32'59		evening set	2557 Dec 01 15:53	21° \mathbb{X} 28'51	
inferior conj	2556 Dec 22 17:24	1° \mathbb{Z} 14'47	1°53'22	asc. node	2557 Dec 03 18:22	19° \mathbb{X} 21'57	
minimum elong	2556 Dec 22 15:09	1° \mathbb{Z} 22'33	1°52'34	min. Earth dist.	2557 Dec 06 16:16	15° \mathbb{X} 35'33	0.67858 AU
min. Earth dist.	2556 Dec 22 19:29	1° \mathbb{Z} 07'32	0.67812 AU	inferior conj	2557 Dec 07 00:58	15° \mathbb{X} 05'36	1°06'08
	2556 Dec 23 15:03	30° \mathbb{R} \mathbb{X}		minimum elong	2557 Dec 06 23:30	15° \mathbb{X} 10'40	1°05'33
morning rise	2556 Dec 27 21:09	25° \mathbb{X} 03'01		morning rise	2557 Dec 12 07:02	8° \mathbb{X} 57'11	
direct	2557 Jan 01 18:48	22° \mathbb{X} 57'56		direct	2557 Dec 16 14:12	7° \mathbb{X} 14'53	
morning max el	2557 Jan 11 15:59	28° \mathbb{X} 49'03	22°47'48	morning max el	2557 Dec 25 06:45	12° \mathbb{X} 19'03	21°23'34
	2557 Jan 12 19:20	0° \mathbb{Z}			2558 Jan 08 03:33	0° \mathbb{Z}	
desc. node	2557 Jan 23 19:50	13° \mathbb{Z} 47'27		desc. node	2558 Jan 10 16:52	3° \mathbb{Z} 41'17	
	2557 Feb 03 23:06	0° \approx		morning set	2558 Jan 25 14:05	26° \mathbb{Z} 18'50	
morning set	2557 Feb 14 22:38	17° \approx 24'04			2558 Jan 27 21:43	0° \approx	
max. Earth dist.	2557 Feb 19 14:45	25° \approx 15'12	1.40064 AU	max. Earth dist.	2558 Feb 01 15:24	7° \approx 41'05	1.42113 AU
	2557 Feb 22 08:32	0° \mathbb{X}					
				superior conj	2558 Feb 09 01:46	20° \approx 12'32	-2°05'36
superior conj	2557 Feb 27 09:01	8° \mathbb{X} 58'26	-1°56'29	minimum elong	2558 Feb 09 02:25	20° \approx 15'22	2°05'36
minimum elong	2557 Feb 27 12:46	9° \mathbb{X} 15'30	1°56'14		2558 Feb 14 15:31	0° \mathbb{X}	
evening rise	2557 Mar 09 04:16	27° \mathbb{X} 21'36		evening rise	2558 Feb 20 05:35	10° \mathbb{X} 05'27	
	2557 Mar 10 13:38	0° \mathbb{Y}		asc. node	2558 Mar 01 17:41	26° \mathbb{X} 49'14	
asc. node	2557 Mar 14 20:39	7° \mathbb{Y} 58'14			2558 Mar 03 18:48	0° \mathbb{Y}	
evening max el	2557 Mar 25 08:57	23° \mathbb{Y} 21'03	18°26'44	evening max el	2558 Mar 08 18:52	6° \mathbb{Y} 16'54	18°08'52
retrograde	2557 Apr 01 20:34	27° \mathbb{Y} 02'38		retrograde	2558 Mar 15 12:45	9° \mathbb{Y} 42'24	
evening set	2557 Apr 04 05:43	26° \mathbb{Y} 41'19		evening set	2558 Mar 18 03:52	9° \mathbb{Y} 11'36	
inferior conj	2557 Apr 11 15:08	22° \mathbb{Y} 08'38	2°36'48	inferior conj	2558 Mar 24 21:02	4° \mathbb{Y} 18'10	3°21'50
minimum elong	2557 Apr 11 19:00	22° \mathbb{Y} 00'48	2°35'50	minimum elong	2558 Mar 24 23:34	4° \mathbb{Y} 12'13	3°21'29
min. Earth dist.	2557 Apr 15 01:42	19° \mathbb{Y} 23'01	0.58509 AU	min. Earth dist.	2558 Mar 28 03:23	1° \mathbb{Y} 15'51	0.60667 AU
morning rise	2557 Apr 19 05:22	16° \mathbb{Y} 39'59			2558 Mar 29 15:04	30° \mathbb{R} \mathbb{X}	
desc. node	2557 Apr 21 19:00	15° \mathbb{Y} 36'31		morning rise	2558 Mar 31 17:15	28° \mathbb{X} 28'32	
direct	2557 Apr 25 06:20	15° \mathbb{Y} 04'53		direct	2558 Apr 07 09:57	26° \mathbb{X} 17'37	
morning max el	2557 May 09 15:42	22° \mathbb{Y} 47'16	26°56'03	desc. node	2558 Apr 08 16:02	26° \mathbb{X} 22'01	
	2557 May 16 01:38	0° \mathbb{B}			2558 Apr 16 20:10	0° \mathbb{Y}	
	2557 Jun 03 17:14	0° \mathbb{I}		morning max el	2558 Apr 21 16:13	4° \mathbb{Y} 11'04	27°40'58
morning set	2557 Jun 08 16:16	10° \mathbb{I} 01'44			2558 May 10 18:30	0° \mathbb{B}	
asc. node	2557 Jun 10 19:54	14° \mathbb{I} 35'55		morning set	2558 May 23 22:33	24° \mathbb{B} 36'36	
					2558 May 26 12:12	0° \mathbb{I}	
superior conj	2557 Jun 15 17:23	25° \mathbb{I} 17'34	0°49'39	asc. node	2558 May 28 16:57	4° \mathbb{I} 43'28	
minimum elong	2557 Jun 15 15:25	25° \mathbb{I} 06'45	0°49'15	max. Earth dist.	2558 May 30 03:02	7° \mathbb{I} 49'06	1.32213 AU
max. Earth dist.	2557 Jun 15 15:40	25° \mathbb{I} 08'07	1.32155 AU				
	2557 Jun 17 20:43	0° \mathbb{B}		superior conj	2558 May 31 04:34	10° \mathbb{I} 08'58	0°25'58
evening rise	2557 Jun 22 14:26	10° \mathbb{B} 13'21		minimum elong	2558 May 31 03:25	10° \mathbb{I} 02'39	0°25'43
	2557 Jul 02 18:58	0° \mathbb{Q}		evening rise	2558 Jun 07 01:04	25° \mathbb{I} 03'52	
desc. node	2557 Jul 18 18:16	23° \mathbb{Q} 05'43			2558 Jun 09 09:44	0° \mathbb{B}	
evening max el	2557 Jul 22 03:26	26° \mathbb{Q} 35'24	26°32'01		2558 Jun 27 01:59	0° \mathbb{Q}	

evening max el	2558 Jul 03 21:57	7°♎45'16	25°18'59	asc. node	2559 May 15 14:00	24°♎52'28	
desc. node	2558 Jul 05 15:17	9°♎19'04			2559 May 17 22:38	0°♎	
retrograde	2558 Jul 17 22:01	14°♎52'12		evening rise	2559 May 22 12:54	9°♎54'23	
evening set	2558 Jul 23 13:59	13°♎37'46			2559 Jun 01 21:40	0°♎	
min. Earth dist.	2558 Jul 28 09:51	10°♎55'16	0.57828 AU	evening max el	2559 Jun 15 11:48	18°♎20'48	23°46'50
inferior conj	2558 Jul 31 12:28	8°♎46'52	-5°01'54	desc. node	2559 Jun 22 12:17	23°♎32'10	
minimum elong	2558 Jul 31 12:28	8°♎46'52	5°01'54	retrograde	2559 Jun 29 04:49	25°♎13'33	
morning rise	2558 Aug 08 13:25	4°♎32'00		evening set	2559 Jul 03 10:06	24°♎34'24	
direct	2558 Aug 11 02:26	4°♎12'28		min. Earth dist.	2559 Jul 09 22:14	21°♎29'32	0.56122 AU
morning max el	2558 Aug 19 18:32	8°♎17'45	18°57'03	inferior conj	2559 Jul 12 04:48	20°♎07'00	-4°39'41
asc. node	2558 Aug 24 16:09	14°♎06'42		minimum elong	2559 Jul 11 23:14	20°♎15'28	4°38'53
	2558 Sep 02 21:49	0°♎		morning rise	2559 Jul 20 14:56	16°♎09'58	
morning set	2558 Sep 05 09:51	4°♎52'46		direct	2559 Jul 23 08:58	15°♎50'45	
				morning max el	2559 Aug 02 11:37	20°♎32'07	20°00'20
superior conj	2558 Sep 13 19:54	21°♎21'46	1°40'04		2559 Aug 10 00:59	0°♎	
minimum elong	2558 Sep 13 21:58	21°♎31'39	1°39'56	asc. node	2559 Aug 11 13:13	2°♎25'29	
	2558 Sep 18 10:30	0°♎		morning set	2559 Aug 20 13:50	19°♎25'06	
max. Earth dist.	2558 Sep 20 16:18	4°♎03'43	1.38917 AU		2559 Aug 25 18:16	0°♎	
evening rise	2558 Sep 24 13:24	10°♎52'12		superior conj	2559 Aug 28 08:11	5°♎12'36	1°45'16
desc. node	2558 Oct 01 14:35	22°♎33'51		minimum elong	2559 Aug 28 08:28	5°♎13'58	1°45'16
	2558 Oct 06 08:46	0°♎		max. Earth dist.	2559 Sep 02 21:34	16°♎03'16	1.36919 AU
	2558 Oct 29 00:14	0°♎		evening rise	2559 Sep 06 17:36	23°♎09'52	
evening max el	2558 Oct 30 00:11	1°♎00'32	24°29'48		2559 Sep 10 14:14	0°♎	
retrograde	2558 Nov 10 09:21	7°♎39'28		desc. node	2559 Sep 18 11:37	13°♎01'10	
evening set	2558 Nov 15 20:15	5°♎22'38			2559 Sep 30 02:26	0°♎	
min. Earth dist.	2558 Nov 20 12:08	0°♎02'56	0.67572 AU	evening max el	2559 Oct 12 12:23	14°♎41'46	25°42'18
asc. node	2558 Nov 20 15:24	29°♎52'02		retrograde	2559 Oct 24 19:18	21°♎43'19	
	2558 Nov 20 13:01	30°♎		evening set	2559 Oct 30 20:28	19°♎12'06	
inferior conj	2558 Nov 21 07:23	28°♎58'33	0°13'43	min. Earth dist.	2559 Nov 04 04:42	14°♎27'39	0.66953 AU
minimum elong	2558 Nov 21 07:03	28°♎59'41	0°13'35	inferior conj	2559 Nov 05 10:54	12°♎51'35	-0°42'34
transit middle	2558 Nov 21 07:03	28°♎59'41	0°13'35	minimum elong	2559 Nov 05 12:00	12°♎48'04	0°42'06
transit begin	2558 Nov 21 05:33	29°♎04'42		asc. node	2559 Nov 07 12:26	10°♎19'01	
transit end	2558 Nov 21 08:33	28°♎54'39		morning rise	2559 Nov 11 03:50	6°♎57'13	
morning rise	2558 Nov 26 17:54	22°♎55'49		direct	2559 Nov 14 10:38	5°♎55'07	
direct	2558 Nov 30 11:58	21°♎35'02		morning max el	2559 Nov 21 10:52	9°♎50'19	19°10'28
morning max el	2558 Dec 08 04:55	25°♎59'26	20°09'55		2559 Dec 06 03:55	0°♎	
	2558 Dec 11 18:30	0°♎		morning set	2559 Dec 14 13:57	13°♎02'08	
desc. node	2558 Dec 28 13:52	23°♎55'06		desc. node	2559 Dec 15 10:54	14°♎23'39	
	2559 Jan 01 13:38	0°♎			2559 Dec 25 10:41	0°♎	
morning set	2559 Jan 04 10:59	4°♎26'52		max. Earth dist.	2559 Dec 28 15:25	5°♎01'42	1.44841 AU
max. Earth dist.	2559 Jan 15 00:01	21°♎01'05	1.43776 AU				
superior conj	2559 Jan 20 16:58	0°♎16'00	-1°59'28	superior conj	2559 Dec 31 07:19	9°♎14'13	-1°34'17
minimum elong	2559 Jan 20 12:11	29°♎56'23	1°59'14	minimum elong	2559 Dec 30 22:27	8°♎39'08	1°33'27
	2559 Jan 20 13:04	0°♎			2560 Jan 13 04:31	0°♎	
evening rise	2559 Feb 02 13:29	21°♎59'43		evening rise	2560 Jan 14 23:58	2°♎58'23	
	2559 Feb 07 04:34	0°♎			2560 Feb 01 07:03	0°♎	
asc. node	2559 Feb 16 14:43	15°♎04'18		asc. node	2560 Feb 03 11:45	2°♎32'50	
evening max el	2559 Feb 20 07:21	19°♎29'55	18°10'23	evening max el	2560 Feb 03 19:32	2°♎52'55	18°30'32
retrograde	2559 Feb 26 18:12	22°♎54'06		retrograde	2560 Feb 10 08:36	6°♎28'41	
evening set	2559 Mar 01 14:47	22°♎12'32		evening set	2560 Feb 13 10:43	5°♎35'32	
inferior conj	2559 Mar 07 19:31	16°♎58'50	3°40'12	inferior conj	2560 Feb 19 06:35	0°♎03'06	3°38'34
minimum elong	2559 Mar 07 20:08	16°♎57'13	3°40'11	minimum elong	2560 Feb 19 05:33	0°♎06'09	3°38'29
min. Earth dist.	2559 Mar 10 13:24	14°♎04'24	0.62758 AU		2560 Feb 19 07:38	30°♎	
morning rise	2559 Mar 14 00:23	10°♎56'57		min. Earth dist.	2560 Feb 21 09:00	27°♎34'49	0.64563 AU
direct	2559 Mar 20 22:50	8°♎19'26		morning rise	2560 Feb 24 23:50	23°♎54'26	
desc. node	2559 Mar 26 13:04	9°♎48'02		direct	2560 Mar 02 19:11	21°♎04'09	
morning max el	2559 Apr 03 22:12	16°♎15'49	27°48'41	desc. node	2560 Mar 12 10:07	25°♎23'02	
	2559 Apr 15 05:47	0°♎		morning max el	2560 Mar 16 07:28	28°♎55'15	27°20'49
	2559 May 03 10:33	0°♎			2560 Mar 17 08:42	0°♎	
morning set	2559 May 07 23:09	8°♎51'29			2560 Apr 08 01:57	0°♎	
max. Earth dist.	2559 May 13 10:16	20°♎14'01	1.32681 AU	morning set	2560 Apr 20 15:22	22°♎37'58	
					2560 Apr 24 07:53	0°♎	
superior conj	2559 May 15 13:28	24°♎49'30	-0°00'14	max. Earth dist.	2560 Apr 25 09:36	2°♎11'51	1.33582 AU
minimum elong	2559 May 15 13:28	24°♎49'32	0°00'14				
behind sun begin	2559 May 15 08:16	24°♎21'24		superior conj	2560 Apr 28 18:06	9°♎12'47	-0°28'05
behind sun end	2559 May 15 18:40	25°♎17'41		minimum elong	2560 Apr 28 19:31	9°♎20'18	0°27'47

asc. node	2560 May 01 11:03	14°♄58'32		superior conj	2561 Apr 12 16:14	23°♄12'15	-0°56'21
evening rise	2560 May 06 00:05	24°♄38'30		minimum elong	2561 Apr 12 19:07	23°♄27'05	0°55'48
	2560 May 08 14:14	0°♄			2561 Apr 15 23:01	0°♄	
evening max el	2560 May 27 03:32	28°♄49'41	22°10'47	asc. node	2561 Apr 18 08:07	4°♄57'50	
	2560 May 28 09:52	0°♄		evening rise	2561 Apr 20 08:39	9°♄09'49	
desc. node	2560 Jun 08 09:20	5°♄09'55			2561 May 01 13:12	0°♄	
retrograde	2560 Jun 08 23:38	5°♄10'44		evening max el	2561 May 09 04:25	9°♄43'11	20°44'28
evening set	2560 Jun 11 19:59	4°♄52'44		retrograde	2561 May 20 12:50	15°♄14'58	
min. Earth dist.	2560 Jun 20 09:21	1°♄12'30	0.55079 AU	evening set	2561 May 22 15:14	15°♄04'21	
inferior conj	2560 Jun 21 04:16	0°♄45'54	-3°28'54	desc. node	2561 May 26 06:22	14°♄00'44	
minimum elong	2560 Jun 20 20:11	0°♄57'16	3°26'39	inferior conj	2561 May 31 21:58	11°♄06'37	-1°38'48
	2560 Jun 22 13:08	30°♄		minimum elong	2561 May 31 17:19	11°♄13'17	1°37'07
morning rise	2560 Jun 29 22:11	26°♄54'13		min. Earth dist.	2561 Jun 01 21:41	10°♄32'42	0.54946 AU
direct	2560 Jul 02 23:19	26°♄33'27		morning rise	2561 Jun 09 18:53	7°♄00'08	
	2560 Jul 12 06:32	0°♄		direct	2561 Jun 13 08:47	6°♄32'32	
morning max el	2560 Jul 14 17:10	2°♄02'11	21°23'53	morning max el	2561 Jun 26 12:57	12°♄52'48	23°02'05
asc. node	2560 Jul 28 10:16	21°♄20'58			2561 Jul 09 11:11	0°♄	
	2560 Aug 01 21:21	0°♄		asc. node	2561 Jul 15 07:21	10°♄44'07	
morning set	2560 Aug 03 22:18	4°♄10'46		morning set	2561 Jul 19 09:17	19°♄04'08	
					2561 Jul 24 12:05	0°♄	
superior conj	2560 Aug 11 06:25	19°♄33'04	1°42'47	superior conj	2561 Jul 26 11:21	4°♄13'29	1°34'02
minimum elong	2560 Aug 11 05:17	19°♄27'11	1°42'45	minimum elong	2561 Jul 26 09:20	4°♄02'42	1°33'51
max. Earth dist.	2560 Aug 15 08:48	27°♄55'23	1.35176 AU	max. Earth dist.	2561 Jul 29 04:52	10°♄00'22	1.33813 AU
	2560 Aug 16 09:50	0°♄		evening rise	2561 Aug 03 04:04	20°♄08'23	
evening rise	2560 Aug 19 15:59	6°♄19'07			2561 Aug 08 08:00	0°♄	
	2560 Sep 02 07:23	0°♄		desc. node	2561 Aug 22 05:40	22°♄56'06	
desc. node	2560 Sep 04 08:39	3°♄11'11			2561 Aug 27 07:26	0°♄	
evening max el	2560 Sep 24 00:40	28°♄19'36	26°40'31	evening max el	2561 Sep 06 12:36	11°♄44'49	27°17'02
	2560 Sep 25 20:15	0°♄		retrograde	2561 Sep 19 23:21	19°♄03'31	
retrograde	2560 Oct 07 00:06	5°♄34'00		evening set	2561 Sep 26 23:48	16°♄20'38	
evening set	2560 Oct 13 14:29	2°♄52'57		min. Earth dist.	2561 Sep 30 18:30	12°♄48'08	0.64649 AU
	2560 Oct 16 13:13	30°♄		inferior conj	2561 Oct 03 00:54	10°♄20'21	-2°40'29
min. Earth dist.	2560 Oct 17 15:32	28°♄44'56	0.65980 AU	minimum elong	2561 Oct 03 05:13	10°♄08'35	2°38'56
inferior conj	2560 Oct 19 09:29	26°♄40'23	-1°41'19	morning rise	2561 Oct 09 11:40	4°♄51'35	
minimum elong	2560 Oct 19 12:14	26°♄32'15	1°40'13	asc. node	2561 Oct 11 06:32	4°♄19'30	
asc. node	2560 Oct 24 09:29	21°♄36'38		direct	2561 Oct 12 02:33	4°♄15'51	
morning rise	2560 Oct 25 10:37	20°♄57'20		morning max el	2561 Oct 18 14:35	7°♄43'16	18°00'15
direct	2560 Oct 28 08:16	20°♄10'19			2561 Nov 02 14:45	0°♄	
morning max el	2560 Nov 03 22:58	23°♄46'59	18°26'58	morning set	2561 Nov 05 03:49	4°♄16'42	
	2560 Nov 09 00:59	0°♄		desc. node	2561 Nov 18 04:58	25°♄46'41	
morning set	2560 Nov 23 18:24	22°♄56'51					
	2560 Nov 28 04:02	0°♄		superior conj	2561 Nov 18 19:16	26°♄44'05	-0°04'04
desc. node	2560 Dec 01 07:57	5°♄02'09		minimum elong	2561 Nov 18 18:47	26°♄42'08	0°03'59
				behind sun begin	2561 Nov 18 08:34	26°♄01'07	
superior conj	2560 Dec 09 09:02	17°♄43'57	-0°52'24	behind sun end	2561 Nov 19 05:00	27°♄23'05	
minimum elong	2560 Dec 09 02:24	17°♄17'57	0°51'34		2561 Nov 20 20:18	0°♄	
max. Earth dist.	2560 Dec 10 10:14	19°♄22'55	1.45183 AU	max. Earth dist.	2561 Nov 23 04:58	3°♄44'48	1.44785 AU
	2560 Dec 17 04:41	0°♄		evening rise	2561 Dec 05 02:48	22°♄18'42	
evening rise	2560 Dec 25 11:10	13°♄00'50			2561 Dec 10 02:55	0°♄	
greatest brilliancy	2561 Jan 04 08:37	28°♄35'02	-0.8m	greatest brilliancy	2561 Dec 19 07:46	13°♄53'18	-0.6m
	2561 Jan 05 06:33	0°♄		evening max el	2561 Dec 31 10:00	29°♄51'09	20°01'51
evening max el	2561 Jan 17 05:01	16°♄21'07	19°08'15		2561 Dec 31 13:27	0°♄	
asc. node	2561 Jan 20 08:47	19°♄01'52		asc. node	2562 Jan 07 05:49	4°♄16'13	
retrograde	2561 Jan 24 04:10	20°♄19'12		retrograde	2562 Jan 08 01:57	4°♄20'07	
evening set	2561 Jan 27 12:44	19°♄13'36		evening set	2562 Jan 11 18:25	3°♄00'48	
inferior conj	2561 Feb 02 02:38	13°♄24'45	3°22'07		2562 Jan 14 20:20	30°♄	
minimum elong	2561 Feb 02 00:33	13°♄31'25	3°21'45	inferior conj	2562 Jan 17 04:44	26°♄58'13	2°54'22
min. Earth dist.	2561 Feb 03 13:47	11°♄32'56	0.65982 AU	minimum elong	2562 Jan 17 02:11	27°♄06'47	2°53'43
morning rise	2561 Feb 07 12:05	7°♄12'30		min. Earth dist.	2562 Jan 18 01:57	25°♄47'04	0.67000 AU
direct	2561 Feb 13 22:07	4°♄23'11		morning rise	2562 Jan 22 09:43	20°♄44'42	
morning max el	2561 Feb 26 17:27	11°♄57'42	26°23'40	direct	2562 Jan 28 06:49	18°♄07'17	
desc. node	2561 Feb 27 07:10	12°♄32'42		morning max el	2562 Feb 09 02:16	25°♄10'24	25°06'10
	2561 Mar 13 04:28	0°♄			2562 Feb 13 11:38	0°♄	
	2561 Mar 31 16:40	0°♄		desc. node	2562 Feb 14 04:12	0°♄49'18	
morning set	2561 Apr 03 19:36	5°♄45'22			2562 Mar 06 16:24	0°♄	
max. Earth dist.	2561 Apr 07 21:51	13°♄37'20	1.34937 AU	morning set	2562 Mar 17 06:49	17°♄58'29	

max. Earth dist.	2562 Mar 20 22:36	24° X 38'58	1.36725 AU	max. Earth dist.	2563 Mar 02 17:31	5° X 50'09	1.38823 AU
	2562 Mar 23 18:42	0° Y					
superior conj	2562 Mar 27 04:50	6° Y 38'48	-1°23'17	superior conj	2563 Mar 10 04:14	19° X 23'28	-1°46'20
minimum elong	2562 Mar 27 08:55	6° Y 58'55	1°22'41	minimum elong	2563 Mar 10 08:36	19° X 43'56	1°45'55
evening rise	2562 Apr 04 12:18	23° Y 20'33		evening rise	2563 Mar 15 17:18	0° Y	
asc. node	2562 Apr 05 05:08	24° Y 45'06		asc. node	2563 Mar 19 08:25	7° Y 04'06	
	2562 Apr 07 20:52	0° Z			2563 Mar 23 02:10	14° Y 15'31	
evening max el	2562 Apr 21 17:15	21° Z 15'44	19°35'20	evening max el	2563 Apr 01 15:42	0° Z	
retrograde	2562 May 01 07:55	25° Z 54'42		retrograde	2563 Apr 04 16:43	3° Z 26'57	18°45'56
evening set	2562 May 03 08:21	25° Z 43'18		retrograde	2563 Apr 12 19:29	7° Z 24'26	
inferior conj	2562 May 12 00:22	21° Z 39'24	0°19'36	evening set	2563 Apr 15 01:14	7° Z 07'30	
minimum elong	2562 May 12 01:13	21° Z 38'03	0°19'17	inferior conj	2563 Apr 22 21:34	2° Z 46'30	1°56'11
desc. node	2562 May 13 03:24	20° Z 56'21		minimum elong	2563 Apr 23 01:17	2° Z 39'37	1°55'04
min. Earth dist.	2562 May 14 11:56	20° Z 05'13	0.55771 AU	min. Earth dist.	2563 Apr 26 04:42	0° Z 21'43	0.57375 AU
morning rise	2562 May 20 15:23	17° Z 01'56			2563 Apr 26 17:14	30° R Y	
direct	2562 May 25 02:51	16° Z 16'53		desc. node	2563 Apr 30 00:26	28° Y 00'49	
morning max el	2562 Jun 08 03:31	23° Z 20'12	24°44'05	morning rise	2563 Apr 30 22:12	27° Y 35'03	
	2562 Jun 14 03:15	0° II		direct	2563 May 06 10:43	26° Y 20'28	
	2562 Jul 01 23:09	0° S			2563 May 16 05:16	0° Z	
asc. node	2562 Jul 02 04:24	0° S 27'04		morning max el	2563 May 20 18:56	3° Z 51'31	26°14'50
morning set	2562 Jul 03 21:06	3° S 59'41			2563 Jun 08 15:32	0° II	
				morning set	2563 Jun 18 08:07	18° II 52'06	
superior conj	2562 Jul 10 20:30	19° S 05'35	1°20'06	asc. node	2563 Jun 19 01:26	20° II 23'43	
minimum elong	2562 Jul 10 18:07	18° S 52'38	1°19'46		2563 Jun 23 11:45	0° S	
max. Earth dist.	2562 Jul 12 09:21	22° S 25'37	1.32857 AU	superior conj	2563 Jun 25 07:49	4° S 02'24	1°01'50
	2562 Jul 15 22:33	0° O		minimum elong	2563 Jun 25 05:35	3° S 50'03	1°01'26
evening rise	2562 Jul 18 02:02	4° O 26'32		max. Earth dist.	2563 Jun 25 19:34	5° S 07'01	1.32304 AU
	2562 Aug 01 00:31	0° P		evening rise	2563 Jul 02 06:50	19° S 03'52	
desc. node	2562 Aug 09 02:42	12° P 05'35			2563 Jul 07 17:38	0° O	
evening max el	2562 Aug 19 22:40	24° P 45'58	27°25'23	desc. node	2563 Jul 26 23:43	0° P 24'33	
	2562 Aug 26 18:34	0° Q			2563 Jul 26 15:45	0° P	
retrograde	2562 Sep 02 16:21	2° Q 02'57		evening max el	2563 Aug 02 04:18	7° P 09'42	27°01'04
	2562 Sep 09 03:00	30° R P		retrograde	2563 Aug 16 01:54	14° P 22'43	
evening set	2562 Sep 09 21:11	29° P 29'33		evening set	2563 Aug 23 02:23	12° P 11'42	
min. Earth dist.	2562 Sep 13 11:51	26° P 27'56	0.62980 AU	min. Earth dist.	2563 Aug 26 18:34	9° P 30'51	0.61043 AU
inferior conj	2562 Sep 16 06:25	23° P 45'33	-3°36'49	inferior conj	2563 Aug 29 22:46	6° P 47'16	-4°25'00
minimum elong	2562 Sep 16 11:49	23° P 32'21	3°35'14	minimum elong	2563 Aug 30 03:57	6° P 36'04	4°23'58
morning rise	2562 Sep 23 03:52	18° P 34'17		morning rise	2563 Sep 06 07:16	1° P 56'41	
direct	2562 Sep 25 14:40	18° P 06'17		direct	2563 Sep 08 16:53	1° P 33'30	
asc. node	2562 Sep 28 03:35	18° P 37'04		asc. node	2563 Sep 15 00:38	4° P 20'51	
morning max el	2562 Oct 02 06:48	21° P 32'32	17°51'10	morning max el	2563 Sep 15 20:32	5° P 06'43	18°00'49
	2562 Oct 08 17:28	0° Q		morning set	2563 Oct 01 16:17	0° Q 05'37	
morning set	2562 Oct 18 13:14	16° Q 46'03			2563 Oct 01 15:04	0° Q	
	2562 Oct 26 03:15	0° R					
superior conj	2562 Oct 30 05:26	6° R 55'52	0°39'26	superior conj	2563 Oct 11 18:21	18° Q 25'52	1°12'03
minimum elong	2562 Oct 30 09:05	7° R 11'11	0°38'56	minimum elong	2563 Oct 11 22:44	18° Q 45'11	1°11'32
desc. node	2562 Nov 05 01:59	16° R 34'09			2563 Oct 18 11:55	0° R	
max. Earth dist.	2562 Nov 05 21:05	17° R 51'15	1.43706 AU	max. Earth dist.	2563 Oct 19 08:48	1° R 27'04	1.42079 AU
	2562 Nov 13 13:30	0° X		desc. node	2563 Oct 22 23:00	7° R 20'45	
evening rise	2562 Nov 14 11:31	1° X 25'19		evening rise	2563 Oct 25 06:01	11° R 01'39	
	2562 Dec 03 17:37	0° S			2563 Nov 06 15:26	0° X	
evening max el	2562 Dec 14 09:35	13° S 22'48	21°08'35	evening max el	2563 Nov 27 03:48	26° X 55'34	22°24'34
retrograde	2562 Dec 22 23:39	18° S 28'18			2563 Nov 30 13:45	0° S	
asc. node	2562 Dec 25 02:50	18° S 03'07		retrograde	2563 Dec 06 19:33	2° S 39'58	
evening set	2562 Dec 27 01:53	16° S 53'49		evening set	2563 Dec 11 09:24	0° S 49'00	
inferior conj	2563 Jan 01 10:31	10° S 40'34	2°17'48	asc. node	2563 Dec 11 23:52	0° S 17'25	
minimum elong	2563 Jan 01 08:01	10° S 49'09	2°16'59		2563 Dec 12 07:12	30° R X	
min. Earth dist.	2563 Jan 01 19:17	10° S 10'19	0.67625 AU	inferior conj	2563 Dec 16 17:55	24° X 28'25	1°34'03
morning rise	2563 Jan 06 13:58	4° S 27'40		minimum elong	2563 Dec 16 15:57	24° X 35'14	1°33'18
direct	2563 Jan 11 20:23	2° S 09'29		min. Earth dist.	2563 Dec 16 15:22	24° X 37'17	0.67878 AU
morning max el	2563 Jan 22 10:45	8° S 28'16	23°38'41	morning rise	2563 Dec 21 22:23	18° X 18'02	
desc. node	2563 Feb 01 01:14	19° S 53'53		direct	2563 Dec 26 13:52	16° X 22'29	
	2563 Feb 08 07:49	0° S		morning max el	2564 Jan 04 22:12	21° X 52'30	22°11'01
morning set	2563 Feb 26 18:59	29° S 01'15			2564 Jan 11 21:34	0° S	
	2563 Feb 27 08:46	0° X		desc. node	2564 Jan 18 22:15	9° S 32'22	
					2564 Feb 01 15:31	0° S	

morning set	2564 Feb 07 02:44	8°  41'02		superior conj	2565 Jan 31 15:55	11°  58'37	-2°05'10
max. Earth dist.	2564 Feb 12 14:58	17°  46'08	1.40973 AU	minimum elong	2565 Jan 31 14:27	11°  52'23	2°05'08
	2564 Feb 19 16:59	0°  ✠			2565 Feb 11 00:59	0°  ✠	
				evening rise	2565 Feb 12 12:10	2°  ✠36'30	
superior conj	2564 Feb 20 09:42	1°  ✠14'15	-2°01'53	asc. node	2565 Feb 23 20:14	22°  ✠00'10	
minimum elong	2564 Feb 20 12:28	1°  ✠26'37	2°01'46	evening max el	2565 Mar 01 11:05	29°  ✠13'10	18°07'09
evening rise	2564 Mar 01 17:42	20°  ✠12'27			2565 Mar 02 07:05	0°  ✠	
	2564 Mar 07 01:10	0°  ✠		retrograde	2565 Mar 08 00:54	2°  ✠36'49	
asc. node	2564 Mar 08 23:12	3°  ✠23'09		evening set	2565 Mar 10 18:17	2°  ✠01'36	
evening max el	2564 Mar 17 23:46	16°  ✠09'15	18°16'40		2565 Mar 13 23:20	30°  ✠✠	
retrograde	2564 Mar 25 02:16	19°  ✠41'58		inferior conj	2565 Mar 17 05:40	26°  ✠59'10	3°32'30
evening set	2564 Mar 27 14:09	19°  ✠16'40		minimum elong	2565 Mar 17 07:23	26°  ✠54'53	3°32'20
inferior conj	2564 Apr 03 16:10	14°  ✠34'51	2°59'36	min. Earth dist.	2565 Mar 20 07:14	23°  ✠57'34	0.61573 AU
minimum elong	2564 Apr 03 19:38	14°  ✠27'21	2°58'54	morning rise	2565 Mar 23 18:54	21°  ✠03'11	
min. Earth dist.	2564 Apr 07 02:10	11°  ✠39'20	0.59422 AU	direct	2565 Mar 30 15:00	18°  ✠39'44	
morning rise	2564 Apr 10 22:37	8°  ✠56'15		desc. node	2565 Apr 02 18:29	19°  ✠07'40	
desc. node	2564 Apr 15 21:27	7°  ✠11'09		morning max el	2565 Apr 13 19:07	26°  ✠35'31	27°48'57
direct	2564 Apr 17 07:26	7°  ✠05'42			2565 Apr 17 00:03	0°  ✠	
morning max el	2564 May 01 15:49	14°  ✠52'52	27°19'36		2565 May 07 10:12	0°  ✠	
	2564 May 13 20:35	0°  ✠		morning set	2565 May 16 20:56	18°  ✠03'57	
	2564 May 30 22:48	0°  ✠		asc. node	2565 May 22 19:30	0°  ✠	
morning set	2564 Jun 01 16:44	3°  ✠36'02			2565 May 22 12:30	0°  ✠	
asc. node	2564 Jun 04 22:28	10°  ✠29'07		max. Earth dist.	2565 May 22 18:07	0°  ✠30'31	1.32363 AU
superior conj	2564 Jun 08 19:34	18°  ✠58'06	0°39'58	superior conj	2565 May 24 06:00	3°  ✠45'51	0°15'08
minimum elong	2564 Jun 08 17:54	18°  ✠48'56	0°39'37	minimum elong	2565 May 24 05:18	3°  ✠42'02	0°14'58
max. Earth dist.	2564 Jun 08 07:51	17°  ✠53'36	1.32138 AU	behind sun begin	2565 May 24 03:36	3°  ✠32'43	
	2564 Jun 13 20:29	0°  ✠		behind sun end	2565 May 24 07:01	3°  ✠51'22	
evening rise	2564 Jun 15 15:59	3°  ✠52'26		evening rise	2565 May 31 03:22	18°  ✠44'00	
	2564 Jun 29 14:23	0°  ✠			2565 Jun 05 15:54	0°  ✠	
desc. node	2564 Jul 12 20:44	17°  ✠32'18		evening max el	2565 Jun 25 18:39	29°  ✠38'41	24°41'07
evening max el	2564 Jul 14 02:57	18°  ✠46'45	26°04'04		2565 Jun 26 03:37	0°  ✠	
retrograde	2564 Jul 28 02:37	25°  ✠56'26		desc. node	2565 Jun 29 17:45	2°  ✠59'09	
evening set	2564 Aug 03 10:40	24°  ✠19'18		retrograde	2565 Jul 09 16:57	6°  ✠41'53	
min. Earth dist.	2564 Aug 07 15:30	21°  ✠43'04	0.58983 AU	evening set	2565 Jul 14 19:05	5°  ✠43'21	
inferior conj	2564 Aug 10 22:22	19°  ✠16'05	-4°56'20	min. Earth dist.	2565 Jul 20 05:50	2°  ✠53'05	0.57046 AU
minimum elong	2564 Aug 11 01:03	19°  ✠11'03	4°56'08	inferior conj	2565 Jul 23 02:13	1°  ✠02'07	-4°57'59
morning rise	2564 Aug 18 17:36	14°  ✠48'34		minimum elong	2565 Jul 22 23:51	1°  ✠06'01	4°57'51
direct	2564 Aug 21 04:51	14°  ✠28'05			2565 Jul 24 16:58	30°  ✠✠	
morning max el	2564 Aug 29 04:39	18°  ✠17'50	18°30'29	morning rise	2565 Jul 31 07:17	26°  ✠56'16	
asc. node	2564 Aug 31 21:40	21°  ✠16'42		direct	2565 Aug 02 22:13	26°  ✠37'05	
	2564 Sep 06 17:48	0°  ✠			2565 Aug 11 02:47	0°  ✠	
morning set	2564 Sep 14 07:51	14°  ✠01'21		morning max el	2565 Aug 12 04:02	0°  ✠55'46	19°21'24
	2564 Sep 22 16:27	0°  ✠		asc. node	2565 Aug 18 18:44	9°  ✠08'54	
				morning set	2565 Aug 29 08:07	28°  ✠22'19	
superior conj	2564 Sep 23 06:00	1°  ✠03'12	1°32'54		2565 Aug 30 03:40	0°  ✠	
minimum elong	2564 Sep 23 09:07	1°  ✠17'40	1°32'39				
max. Earth dist.	2564 Sep 30 15:20	14°  ✠20'42	1.40109 AU	superior conj	2565 Sep 06 10:45	14°  ✠31'23	1°43'18
evening rise	2564 Oct 04 21:49	21°  ✠37'04		minimum elong	2565 Sep 06 12:01	14°  ✠37'37	1°43'16
desc. node	2564 Oct 08 20:01	28°  ✠03'12		max. Earth dist.	2565 Sep 12 19:04	26°  ✠33'00	1.38043 AU
	2564 Oct 10 01:11	0°  ✠			2565 Sep 14 16:42	0°  ✠	
	2564 Oct 30 17:15	0°  ✠		evening rise	2565 Sep 16 13:28	3°  ✠18'55	
evening max el	2564 Nov 08 17:55	10°  ✠30'47	23°44'29	desc. node	2565 Sep 25 17:03	18°  ✠37'22	
retrograde	2564 Nov 19 12:23	16°  ✠51'57			2565 Oct 03 03:48	0°  ✠	
evening set	2564 Nov 24 15:24	14°  ✠44'06		evening max el	2565 Oct 22 06:06	24°  ✠09'42	25°01'54
asc. node	2564 Nov 27 20:55	11°  ✠14'33			2565 Oct 29 23:23	0°  ✠	
min. Earth dist.	2564 Nov 29 11:56	9°  ✠05'11	0.67780 AU	retrograde	2565 Nov 03 01:15	1°  ✠00'15	
inferior conj	2564 Nov 30 01:12	8°  ✠20'00	0°44'27		2565 Nov 06 18:57	30°  ✠✠	
minimum elong	2564 Nov 30 00:10	8°  ✠23'32	0°44'02	evening set	2565 Nov 08 18:15	28°  ✠36'40	
morning rise	2564 Dec 05 08:55	2°  ✠14'00		min. Earth dist.	2565 Nov 13 06:41	23°  ✠31'53	0.67344 AU
direct	2564 Dec 09 10:18	0°  ✠41'15		inferior conj	2565 Nov 14 06:36	22°  ✠13'20	-0°09'46
morning max el	2564 Dec 17 16:01	5°  ✠26'59	20°50'44	minimum elong	2565 Nov 14 06:51	22°  ✠12'32	0°09'40
desc. node	2565 Jan 04 19:16	29°  ✠35'19		transit middle	2565 Nov 14 06:51	22°  ✠12'32	0°09'40
	2565 Jan 05 01:55	0°  ✠		transit begin	2565 Nov 14 04:38	22°  ✠19'51	
morning set	2565 Jan 16 08:00	17°  ✠08'49		transit end	2565 Nov 14 09:04	22°  ✠05'14	
	2565 Jan 24 10:07	0°  ✠		asc. node	2565 Nov 14 17:57	21°  ✠36'11	
max. Earth dist.	2565 Jan 24 19:24	0°  ✠37'37	1.42880 AU	morning rise	2565 Nov 19 19:38	16°  ✠13'58	

direct	2565 Nov 23 08:34	15° \mathbb{M} 01'45		morning rise	2566 Nov 04 04:29	0° \mathbb{M} 15'01	
morning max el	2565 Nov 30 17:42	19° \mathbb{M} 12'43	19°42'48		2566 Nov 04 15:29	30° \mathbb{R} $\underline{\mathbb{A}}$	
	2565 Dec 09 08:10	0° \mathbb{A}		direct	2566 Nov 07 07:03	29° $\underline{\mathbb{A}}$ 19'53	
greatest brilliancy	2565 Dec 13 22:56	6° \mathbb{A} 42'52	-0.7m		2566 Nov 10 00:30	0° \mathbb{M}	
desc. node	2565 Dec 22 16:18	19° \mathbb{A} 56'05		morning max el	2566 Nov 14 02:30	3° \mathbb{M} 06'25	18°49'53
morning set	2565 Dec 26 04:16	25° \mathbb{A} 19'25			2566 Dec 02 21:25	0° \mathbb{A}	
	2565 Dec 29 04:42	0° \mathbb{B}		morning set	2566 Dec 05 16:33	4° \mathbb{A} 24'13	
max. Earth dist.	2566 Jan 07 06:54	14° \mathbb{B} 16'02	1.44300 AU	desc. node	2566 Dec 09 13:20	10° \mathbb{A} 29'09	
				max. Earth dist.	2566 Dec 20 23:36	28° \mathbb{A} 25'37	1.45072 AU
					2566 Dec 21 23:37	0° \mathbb{B}	
superior conj	2566 Jan 11 19:55	21° \mathbb{B} 32'10	-1°51'10				
minimum elong	2566 Jan 11 12:53	21° \mathbb{B} 03'49	1°50'41				
	2566 Jan 17 00:35	0° \approx		superior conj	2566 Dec 22 02:37	0° \mathbb{B} 11'48	-1°18'07
evening rise	2566 Jan 25 11:27	14° \approx 08'06		minimum elong	2566 Dec 21 17:52	29° \mathbb{A} 37'23	1°17'08
	2566 Feb 03 22:23	0° \mathbb{H}		evening rise	2567 Jan 06 11:55	24° \mathbb{B} 41'34	
asc. node	2566 Feb 10 17:17	9° \mathbb{H} 57'21			2567 Jan 09 18:42	0° \approx	
evening max el	2566 Feb 12 23:45	12° \mathbb{H} 31'23	18°16'46	evening max el	2567 Jan 27 11:04	25° \approx 57'01	18°44'37
retrograde	2566 Feb 19 10:42	15° \mathbb{H} 59'23		asc. node	2567 Jan 28 14:20	27° \approx 02'13	
evening set	2566 Feb 22 09:27	15° \mathbb{H} 13'10		retrograde	2567 Feb 03 03:33	29° \approx 40'55	
inferior conj	2566 Feb 28 10:02	9° \mathbb{H} 51'26	3°41'37	evening set	2567 Feb 06 08:15	28° \approx 42'41	
minimum elong	2566 Feb 28 09:53	9° \mathbb{H} 51'51	3°41'36	inferior conj	2567 Feb 12 01:17	23° \approx 03'18	3°33'06
min. Earth dist.	2566 Mar 02 21:33	7° \mathbb{H} 06'01	0.63560 AU	minimum elong	2567 Feb 11 23:44	23° \approx 08'03	3°32'56
morning rise	2566 Mar 06 09:27	3° \mathbb{H} 45'53		min. Earth dist.	2567 Feb 13 21:12	20° \approx 49'25	0.65217 AU
direct	2566 Mar 13 07:26	1° \mathbb{H} 00'56		morning rise	2567 Feb 17 14:47	16° \approx 52'52	
desc. node	2566 Mar 20 15:30	3° \mathbb{H} 33'03		direct	2567 Feb 24 06:56	14° \approx 01'06	
morning max el	2566 Mar 27 03:01	8° \mathbb{H} 57'17	27°40'54	desc. node	2567 Mar 07 12:32	19° \approx 51'31	
	2566 Apr 12 11:19	0° \mathbb{Y}		morning max el	2567 Mar 09 12:38	21° \approx 46'58	26°59'32
	2566 Apr 29 16:24	0° \mathbb{B}			2567 Mar 16 17:08	0° \mathbb{H}	
morning set	2566 Apr 30 18:23	2° \mathbb{B} 08'31			2567 Apr 05 15:57	0° \mathbb{Y}	
max. Earth dist.	2566 May 05 22:23	12° \mathbb{B} 44'57	1.33008 AU	morning set	2567 Apr 14 05:59	15° \mathbb{Y} 39'37	
				max. Earth dist.	2567 Apr 18 16:54	24° \mathbb{Y} 27'09	1.34099 AU
					2567 Apr 21 09:54	0° \mathbb{B}	
superior conj	2566 May 08 13:22	18° \mathbb{B} 20'11	-0°11'55				
minimum elong	2566 May 08 13:57	18° \mathbb{B} 23'19	0°11'47				
behind sun begin	2566 May 08 10:21	18° \mathbb{B} 03'58		superior conj	2567 Apr 22 15:33	2° \mathbb{B} 34'17	-0°40'06
behind sun end	2566 May 08 17:33	18° \mathbb{B} 42'42		minimum elong	2567 Apr 22 17:36	2° \mathbb{B} 45'01	0°39'41
asc. node	2566 May 09 16:34	20° \mathbb{B} 46'29		asc. node	2567 Apr 26 13:38	10° \mathbb{B} 50'17	
	2566 May 13 23:14	0° \mathbb{II}		evening rise	2567 Apr 30 01:26	18° \mathbb{B} 11'50	
evening rise	2566 May 15 15:09	3° \mathbb{II} 32'38			2567 May 05 22:50	0° \mathbb{II}	
	2566 May 30 01:39	0° \mathbb{B}		evening max el	2567 May 20 03:27	20° \mathbb{II} 44'44	21°32'23
evening max el	2566 Jun 07 08:18	10° \mathbb{B} 07'27	23°05'29	retrograde	2567 Jun 01 09:46	26° \mathbb{II} 45'40	
desc. node	2566 Jun 16 14:47	16° \mathbb{B} 10'00		desc. node	2567 Jun 03 11:47	26° \mathbb{II} 35'46	
retrograde	2566 Jun 20 18:53	16° \mathbb{B} 49'39		evening set	2567 Jun 03 20:13	26° \mathbb{II} 32'12	
evening set	2566 Jun 24 08:39	16° \mathbb{B} 21'39		inferior conj	2567 Jun 13 05:56	22° \mathbb{II} 31'38	-2°45'33
min. Earth dist.	2566 Jul 01 17:37	13° \mathbb{B} 03'02	0.55581 AU	minimum elong	2567 Jun 12 22:40	22° \mathbb{II} 41'47	2°43'12
inferior conj	2566 Jul 03 10:33	12° \mathbb{B} 03'26	-4°15'40	min. Earth dist.	2567 Jun 13 05:19	22° \mathbb{II} 32'29	0.54906 AU
minimum elong	2566 Jul 03 03:15	12° \mathbb{B} 14'07	4°14'10	morning rise	2567 Jun 22 01:55	18° \mathbb{II} 35'50	
morning rise	2566 Jul 12 00:17	8° \mathbb{B} 10'32		direct	2567 Jun 25 07:41	18° \mathbb{II} 12'56	
direct	2566 Jul 14 20:40	7° \mathbb{B} 51'10		morning max el	2567 Jul 07 17:13	24° \mathbb{II} 04'10	22°04'16
morning max el	2566 Jul 25 16:19	12° \mathbb{B} 52'02	20°33'34		2567 Jul 13 01:13	0° \mathbb{B}	
asc. node	2566 Aug 05 15:47	27° \mathbb{B} 44'33			2567 Jul 23 12:51	16° \mathbb{B} 53'14	
	2566 Aug 06 22:15	0° \mathbb{Q}		asc. node	2567 Jul 29 00:01	27° \mathbb{B} 50'48	
morning set	2566 Aug 13 14:14	13° \mathbb{Q} 00'45		morning set	2567 Jul 30 00:41	0° \mathbb{Q}	
superior conj	2566 Aug 21 03:42	28° \mathbb{Q} 36'08	1°45'04	superior conj	2567 Aug 05 05:08	13° \mathbb{Q} 06'32	1°39'46
minimum elong	2566 Aug 21 03:19	28° \mathbb{Q} 34'12	1°45'03	minimum elong	2567 Aug 05 03:33	12° \mathbb{Q} 58'14	1°39'40
	2566 Aug 21 20:13	0° \mathbb{P}		max. Earth dist.	2567 Aug 08 16:53	20° \mathbb{Q} 21'29	1.34552 AU
max. Earth dist.	2566 Aug 26 01:53	8° \mathbb{P} 24'33	1.36136 AU	evening rise	2567 Aug 13 06:47	29° \mathbb{Q} 28'47	
evening rise	2566 Aug 30 01:59	16° \mathbb{P} 00'12			2567 Aug 13 13:14	0° \mathbb{P}	
	2566 Sep 07 00:46	0° $\underline{\mathbb{A}}$		desc. node	2567 Aug 30 11:09	28° \mathbb{P} 58'57	
desc. node	2566 Sep 12 14:06	8° $\underline{\mathbb{A}}$ 58'06			2567 Aug 31 03:28	0° $\underline{\mathbb{A}}$	
	2566 Sep 27 15:40	0° \mathbb{M}		evening max el	2567 Sep 17 06:46	21° $\underline{\mathbb{A}}$ 25'26	26°59'12
evening max el	2566 Oct 04 18:14	7° \mathbb{M} 50'11	26°09'22	retrograde	2567 Sep 30 11:41	28° $\underline{\mathbb{A}}$ 42'02	
retrograde	2566 Oct 17 09:14	14° \mathbb{M} 59'04		evening set	2567 Oct 07 06:45	25° $\underline{\mathbb{A}}$ 59'27	
evening set	2566 Oct 23 16:06	12° \mathbb{M} 23'04		min. Earth dist.	2567 Oct 11 05:06	22° $\underline{\mathbb{A}}$ 06'31	0.65457 AU
min. Earth dist.	2566 Oct 27 21:13	7° \mathbb{M} 53'48	0.66574 AU	inferior conj	2567 Oct 13 04:09	19° $\underline{\mathbb{A}}$ 51'36	-2°06'32
inferior conj	2566 Oct 29 08:17	6° \mathbb{M} 05'07	-1°07'20	minimum elong	2567 Oct 13 07:35	19° $\underline{\mathbb{A}}$ 41'45	2°05'11
minimum elong	2566 Oct 29 10:04	5° \mathbb{M} 59'35	1°06'35	morning rise	2567 Oct 19 09:12	14° $\underline{\mathbb{A}}$ 13'55	
asc. node	2566 Nov 01 15:00	2° \mathbb{M} 18'37		asc. node	2567 Oct 19 12:02	14° $\underline{\mathbb{A}}$ 10'28	

direct	2567 Oct 22 03:43	13°♄32'03		minimum elong	2568 Sep 25 20:35	3°♄13'30	3°03'19
morning max el	2567 Oct 28 16:22	17°♄03'44	18°13'26		2568 Sep 29 05:43	30°♄	
	2567 Nov 07 04:31	0°♄		morning rise	2568 Oct 02 06:55	28°♄04'26	
morning set	2567 Nov 16 09:42	14°♄57'04		direct	2568 Oct 04 19:52	27°♄32'14	
	2567 Nov 25 16:40	0°♄		asc. node	2568 Oct 05 09:04	27°♄33'47	
desc. node	2567 Nov 26 10:24	1°♄10'53			2568 Oct 10 07:44	0°♄	
				morning max el	2568 Oct 11 08:35	0°♄57'48	17°54'10
superior conj	2567 Dec 01 05:21	8°♄47'22	-0°31'56	morning set	2568 Oct 28 06:07	26°♄49'05	
minimum elong	2567 Dec 01 01:15	8°♄31'11	0°31'22		2568 Oct 30 02:43	0°♄	
max. Earth dist.	2567 Dec 03 18:59	12°♄50'13	1.45111 AU				
	2567 Dec 14 18:26	0°♄		superior conj	2568 Nov 10 00:37	18°♄14'51	0°15'32
evening rise	2567 Dec 17 13:50	4°♄22'29		minimum elong	2568 Nov 10 02:20	18°♄21'50	0°15'17
greatest brilliancy	2567 Dec 29 13:31	22°♄54'57	-0.7m	behind sun begin	2568 Nov 09 23:03	18°♄08'29	
	2568 Jan 03 08:22	0°♄		behind sun end	2568 Nov 10 05:37	18°♄35'11	
evening max el	2568 Jan 10 18:53	9°♄26'21	19°29'16	desc. node	2568 Nov 12 07:27	21°♄57'09	
asc. node	2568 Jan 15 11:21	13°♄01'12		max. Earth dist.	2568 Nov 15 13:29	27°♄09'41	1.44410 AU
retrograde	2568 Jan 18 00:14	13°♄36'11			2568 Nov 17 08:26	0°♄	
evening set	2568 Jan 21 12:04	12°♄24'46		evening rise	2568 Nov 26 00:35	13°♄30'58	
inferior conj	2568 Jan 27 00:11	6°♄29'51	3°11'29		2568 Dec 06 21:24	0°♄	
minimum elong	2568 Jan 26 21:50	6°♄37'32	3°11'01	evening max el	2568 Dec 23 21:36	22°♄57'03	20°28'47
min. Earth dist.	2568 Jan 28 05:12	4°♄55'13	0.66473 AU	retrograde	2568 Dec 31 22:15	27°♄34'53	
morning rise	2568 Feb 01 07:23	0°♄17'05		asc. node	2569 Jan 01 08:20	27°♄39'54	
	2568 Feb 01 15:10	30°♄		evening set	2569 Jan 04 18:44	26°♄15'04	
direct	2568 Feb 07 12:20	27°♄31'43		inferior conj	2569 Jan 10 04:06	20°♄07'21	2°39'48
	2568 Feb 14 04:47	0°♄		minimum elong	2569 Jan 10 01:31	20°♄16'10	2°39'04
morning max el	2568 Feb 19 21:58	4°♄53'47	25°52'32	min. Earth dist.	2569 Jan 10 19:45	19°♄14'05	0.67314 AU
desc. node	2568 Feb 22 09:35	7°♄31'58		morning rise	2569 Jan 15 08:08	13°♄54'02	
	2568 Mar 10 04:37	0°♄		direct	2569 Jan 20 23:01	11°♄24'28	
morning set	2568 Mar 27 03:35	28°♄25'04		morning max el	2569 Feb 01 06:33	18°♄09'33	24°29'38
	2568 Mar 28 00:06	0°♄		desc. node	2569 Feb 08 06:38	26°♄11'00	
max. Earth dist.	2568 Mar 30 23:58	5°♄39'35	1.35650 AU		2569 Feb 11 05:29	0°♄	
					2569 Mar 03 06:20	0°♄	
superior conj	2568 Apr 05 10:00	16°♄20'36	-1°08'04	morning set	2569 Mar 09 05:48	10°♄10'21	
minimum elong	2568 Apr 05 13:28	16°♄38'04	1°07'28	max. Earth dist.	2569 Mar 12 21:49	16°♄42'54	1.37592 AU
asc. node	2568 Apr 12 10:41	0°♄44'54					
	2568 Apr 12 01:56	0°♄		superior conj	2569 Mar 19 17:31	29°♄30'39	-1°33'43
evening rise	2568 Apr 13 08:11	2°♄35'02		minimum elong	2569 Mar 19 21:53	29°♄51'44	1°33'10
	2568 Apr 29 14:01	0°♄			2569 Mar 19 23:35	0°♄	
evening max el	2568 May 01 09:20	1°♄53'47	20°12'44	evening rise	2569 Mar 28 09:01	16°♄35'34	
retrograde	2568 May 11 23:36	7°♄02'18		asc. node	2569 Mar 30 07:42	20°♄25'51	
evening set	2568 May 13 23:57	6°♄51'56			2569 Apr 04 09:50	0°♄	
desc. node	2568 May 20 08:49	4°♄26'11		evening max el	2569 Apr 14 02:55	13°♄43'03	19°11'49
inferior conj	2568 May 23 01:33	2°♄53'16	-0°47'27	retrograde	2569 Apr 23 01:17	18°♄03'02	
minimum elong	2568 May 22 23:20	2°♄56'33	0°46'38	evening set	2569 Apr 25 03:28	17°♄49'47	
min. Earth dist.	2568 May 24 18:02	1°♄53'28	0.55186 AU	inferior conj	2569 May 03 11:12	13°♄39'04	1°04'19
	2568 May 28 05:42	30°♄		minimum elong	2569 May 03 13:42	13°♄34'49	1°03'28
morning rise	2568 May 31 21:13	28°♄35'25		min. Earth dist.	2569 May 06 09:03	11°♄41'47	0.56368 AU
direct	2568 Jun 04 19:35	28°♄01'54		desc. node	2569 May 07 05:49	11°♄08'41	
	2568 Jun 12 02:26	0°♄		morning rise	2569 May 11 20:55	8°♄46'46	
morning max el	2568 Jun 18 09:53	4°♄41'22	23°45'53	direct	2569 May 16 18:49	7°♄50'49	
	2568 Jul 06 02:44	0°♄		morning max el	2569 May 31 00:18	15°♄07'33	25°25'08
asc. node	2568 Jul 09 09:54	6°♄25'49			2569 Jun 11 21:35	0°♄	
morning set	2568 Jul 12 11:35	12°♄46'06		asc. node	2569 Jun 26 06:58	26°♄15'32	
				morning set	2569 Jun 26 23:16	27°♄41'19	
superior conj	2568 Jul 19 12:07	27°♄52'49	1°28'43		2569 Jun 28 01:22	0°♄	
minimum elong	2568 Jul 19 09:53	27°♄40'46	1°28'27				
	2568 Jul 20 11:46	0°♄		superior conj	2569 Jul 03 22:25	12°♄47'49	1°12'51
max. Earth dist.	2568 Jul 21 17:06	2°♄36'47	1.33360 AU	minimum elong	2569 Jul 03 20:03	12°♄34'48	1°12'28
evening rise	2568 Jul 26 23:29	13°♄31'44		max. Earth dist.	2569 Jul 05 00:29	15°♄10'18	1.32572 AU
	2568 Aug 04 17:14	0°♄		evening rise	2569 Jul 11 00:41	27°♄58'55	
desc. node	2568 Aug 16 08:10	18°♄30'29			2569 Jul 12 00:17	0°♄	
	2568 Aug 25 06:24	0°♄			2569 Jul 28 23:32	0°♄	
evening max el	2568 Aug 29 18:19	4°♄42'29	27°24'18	desc. node	2569 Aug 03 05:09	7°♄20'33	
retrograde	2568 Sep 12 08:03	12°♄00'00		evening max el	2569 Aug 12 02:35	17°♄28'18	27°18'59
evening set	2568 Sep 19 11:23	9°♄19'42		retrograde	2569 Aug 25 21:58	24°♄43'53	
min. Earth dist.	2568 Sep 23 04:02	6°♄01'17	0.63987 AU	evening set	2569 Sep 02 02:27	22°♄17'58	
inferior conj	2568 Sep 25 15:42	3°♄26'12	-3°04'57	min. Earth dist.	2569 Sep 05 16:38	19°♄27'08	0.62190 AU

inferior conj	2569 Sep 08 16:00	16° \cap 42'04	-3°58'39		2570 Aug 21 11:27	30° κ δ	
minimum elong	2569 Sep 08 21:32	16° \cap 29'15	3°57'14	inferior conj	2570 Aug 22 01:40	29° Ω 30'54	-4°41'03
morning rise	2569 Sep 15 18:12	11° \cap 39'34		minimum elong	2570 Aug 22 06:07	29° Ω 21'49	4°40'23
direct	2569 Sep 18 04:10	11° \cap 13'57		morning rise	2570 Aug 29 14:51	24° Ω 50'12	
asc. node	2569 Sep 22 06:07	12° \cap 29'23		direct	2570 Sep 01 00:41	24° Ω 28'32	
morning max el	2569 Sep 25 00:10	14° \cap 41'46	17°52'55	morning max el	2570 Sep 08 11:59	28° Ω 07'43	18°10'55
	2569 Oct 05 13:14	0° $\underline{\cap}$		asc. node	2570 Sep 09 03:12	28° Ω 45'48	
morning set	2569 Oct 10 23:41	9° $\underline{\cap}$ 41'15			2570 Sep 10 06:08	0° \cap	
				morning set	2570 Sep 24 08:39	23° \cap 17'51	
					2570 Sep 27 22:07	0° $\underline{\cap}$	
superior conj	2569 Oct 21 22:23	29° $\underline{\cap}$ 00'37	0°54'45	superior conj	2570 Oct 03 21:44	11° $\underline{\cap}$ 01'38	1°22'16
minimum elong	2569 Oct 22 02:43	29° $\underline{\cap}$ 19'06	0°54'10	minimum elong	2570 Oct 04 01:43	11° $\underline{\cap}$ 19'38	1°21'52
	2569 Oct 22 12:18	0° \cap		max. Earth dist.	2570 Oct 11 12:41	24° $\underline{\cap}$ 21'08	1.41265 AU
max. Earth dist.	2569 Oct 29 03:45	11° \cap 04'07	1.43070 AU		2570 Oct 14 21:58	0° \cap	
desc. node	2569 Oct 30 04:27	12° \cap 44'28		evening rise	2570 Oct 16 14:11	2° \cap 44'17	
evening rise	2569 Nov 05 11:24	22° \cap 44'33		desc. node	2570 Oct 17 01:28	3° \cap 29'58	
	2569 Nov 10 04:13	0° \times			2570 Nov 03 13:14	0° \times	
	2569 Dec 01 04:25	0° Z		evening max el	2570 Nov 19 10:53	20° \times 02'01	22°58'29
evening max el	2569 Dec 06 18:38	6° Z 28'07	21°40'03	retrograde	2570 Nov 29 14:21	26° \times 03'07	
retrograde	2569 Dec 15 19:29	11° Z 50'46		evening set	2570 Dec 04 09:30	24° \times 05'11	
asc. node	2569 Dec 19 05:21	10° Z 47'02		asc. node	2570 Dec 06 02:24	22° \times 25'41	
evening set	2569 Dec 20 02:25	10° Z 09'19		inferior conj	2570 Dec 09 18:24	17° \times 42'30	1°13'42
inferior conj	2569 Dec 25 10:48	3° Z 52'13	2°00'02	minimum elong	2570 Dec 09 16:47	17° \times 48'05	1°13'03
minimum elong	2569 Dec 25 08:29	4° Z 00'16	1°59'13	min. Earth dist.	2570 Dec 09 11:19	18° \times 07'00	0.67874 AU
min. Earth dist.	2569 Dec 25 14:36	3° Z 39'04	0.67770 AU	morning rise	2570 Dec 14 23:58	11° \times 33'26	
	2569 Dec 28 08:53	30° κ \times		direct	2570 Dec 19 09:17	9° \times 47'39	
morning rise	2569 Dec 30 14:23	27° \times 40'01		morning max el	2570 Dec 28 05:45	14° \times 58'20	21°35'31
direct	2570 Jan 04 14:16	25° \times 31'28			2571 Jan 09 06:25	0° Z	
	2570 Jan 13 02:35	0° Z		desc. node	2571 Jan 13 00:42	5° Z 21'19	
morning max el	2570 Jan 14 15:59	1° Z 30'06	23°00'55	morning set	2571 Jan 29 01:46	29° Z 44'10	
desc. node	2570 Jan 26 03:40	15° Z 31'14			2571 Jan 29 05:45	0° \approx	
	2570 Feb 05 05:04	0° \approx		max. Earth dist.	2571 Feb 04 16:22	10° \approx 26'43	1.41830 AU
morning set	2570 Feb 18 06:20	20° \approx 38'42					
max. Earth dist.	2570 Feb 22 16:47	28° \approx 09'18	1.39743 AU	superior conj	2571 Feb 12 06:03	23° \approx 17'12	-2°05'06
	2570 Feb 23 18:21	0° X		minimum elong	2571 Feb 12 07:21	23° \approx 22'53	2°05'04
superior conj	2570 Mar 02 09:51	11° X 53'18	-1°54'07		2571 Feb 16 01:29	0° X	
minimum elong	2570 Mar 02 13:50	12° X 11'34	1°53'49	evening rise	2571 Feb 23 04:28	12° X 55'11	
	2570 Mar 11 23:56	0° Υ		asc. node	2571 Mar 04 01:44	28° X 42'41	
evening rise	2570 Mar 12 00:58	0° Υ 04'57			2571 Mar 04 20:45	0° Υ	
asc. node	2570 Mar 17 04:43	9° Υ 47'13		evening max el	2571 Mar 11 15:18	9° Υ 00'52	18°10'17
evening max el	2570 Mar 28 05:58	26° Υ 08'07	18°31'03	retrograde	2571 Mar 18 10:59	12° Υ 27'34	
retrograde	2570 Apr 04 21:10	29° Υ 53'16		evening set	2571 Mar 21 01:19	11° Υ 58'12	
evening set	2570 Apr 07 05:23	29° Υ 33'12		inferior conj	2571 Mar 27 20:40	7° Υ 07'49	3°16'53
inferior conj	2570 Apr 14 17:35	25° Υ 03'43	2°27'09	minimum elong	2571 Mar 27 23:28	7° Υ 01'21	3°16'25
minimum elong	2570 Apr 14 21:30	24° Υ 55'58	2°26'08	min. Earth dist.	2571 Mar 31 04:17	4° Υ 06'27	0.60349 AU
min. Earth dist.	2570 Apr 18 03:48	22° Υ 22'39	0.58207 AU	morning rise	2571 Apr 03 19:29	1° Υ 20'48	
morning rise	2570 Apr 22 10:34	19° Υ 39'07			2571 Apr 06 11:22	30° κ X	
desc. node	2570 Apr 24 02:51	18° Υ 55'42		direct	2571 Apr 10 10:34	29° X 14'53	
direct	2570 Apr 28 08:31	18° Υ 09'22		desc. node	2571 Apr 10 23:53	29° X 15'45	
morning max el	2570 May 12 17:50	25° Υ 49'23	26°46'17		2571 Apr 14 13:11	0° Υ	
	2570 May 16 15:40	0° Z		morning max el	2571 Apr 24 17:19	7° Υ 06'47	27°36'34
	2570 Jun 05 03:41	0° Π			2571 May 12 00:06	0° Z	
morning set	2570 Jun 11 09:28	12° Π 30'26		morning set	2571 May 26 16:26	27° Z 07'43	
asc. node	2570 Jun 13 04:01	16° Π 16'11			2571 May 28 01:25	0° Π	
superior conj	2570 Jun 18 10:08	27° Π 44'35	0°52'57	asc. node	2571 May 31 01:03	6° Π 23'08	
minimum elong	2570 Jun 18 08:05	27° Π 33'18	0°52'34	max. Earth dist.	2571 Jun 01 23:32	10° Π 36'32	1.32183 AU
max. Earth dist.	2570 Jun 18 11:49	27° Π 53'50	1.32179 AU				
	2570 Jun 19 10:44	0° S		superior conj	2571 Jun 02 21:33	12° Π 37'18	0°29'44
evening rise	2570 Jun 25 07:34	12° S 41'21		minimum elong	2571 Jun 02 20:15	12° Π 30'10	0°29'28
	2570 Jul 04 03:18	0° Ω		evening rise	2571 Jun 09 17:54	27° Π 31'37	
desc. node	2570 Jul 21 02:09	25° Ω 12'04			2571 Jun 10 22:05	0° S	
evening max el	2570 Jul 25 05:17	29° Ω 32'09	26°40'36		2571 Jun 27 22:08	0° Ω	
	2570 Jul 25 17:11	0° \cap		evening max el	2571 Jul 07 00:56	10° Ω 49'00	25°31'25
retrograde	2570 Aug 08 04:24	6° \cap 44'42		desc. node	2571 Jul 07 23:10	11° Ω 40'41	
evening set	2570 Aug 14 23:24	4° \cap 46'48		retrograde	2571 Jul 21 01:03	17° Ω 56'36	
min. Earth dist.	2570 Aug 18 19:04	2° \cap 10'07	0.60164 AU	evening set	2571 Jul 26 21:34	16° Ω 36'23	

min. Earth dist.	2571 Jul 31 13:02	13°♎56'01	0.58117 AU	evening set	2572 Jul 05 20:38	27°♏40'19	
inferior conj	2571 Aug 03 17:09	11°♎42'22	-5°01'38	min. Earth dist.	2572 Jul 12 01:44	24°♏39'43	0.56346 AU
minimum elong	2571 Aug 03 17:55	11°♎40'59	5°01'38	inferior conj	2572 Jul 14 12:27	23°♏09'26	-4°46'07
morning rise	2571 Aug 11 16:37	7°♎24'12		minimum elong	2572 Jul 14 07:40	23°♏16'50	4°45'32
direct	2571 Aug 14 05:08	7°♎04'27		morning rise	2572 Jul 22 21:19	19°♏10'30	
morning max el	2571 Aug 22 16:42	11°♎05'25	18°49'31	direct	2572 Jul 25 14:35	18°♏51'18	
asc. node	2571 Aug 27 00:16	16°♎07'07		morning max el	2572 Aug 04 11:30	23°♏26'11	19°49'35
	2571 Sep 04 07:57	0°♎			2572 Aug 10 01:12	0°♎	
morning set	2571 Sep 08 04:23	7°♎25'27		asc. node	2572 Aug 12 21:20	4°♎19'20	
				morning set	2572 Aug 22 07:29	21°♎55'06	
					2572 Aug 26 06:57	0°♎	
superior conj	2571 Sep 16 17:19	24°♎02'10	1°38'28	superior conj	2572 Aug 30 03:48	7°♎47'28	1°45'00
minimum elong	2571 Sep 16 19:39	24°♎13'19	1°38'20	minimum elong	2572 Aug 30 04:19	7°♎50'06	1°45'00
	2571 Sep 19 21:42	0°♎		max. Earth dist.	2572 Sep 04 22:22	18°♎58'23	1.37205 AU
max. Earth dist.	2571 Sep 23 17:35	6°♎56'03	1.39227 AU	evening rise	2572 Sep 08 17:26	25°♎57'05	
evening rise	2571 Sep 27 16:21	13°♎48'38			2572 Sep 11 00:11	0°♎	
desc. node	2571 Oct 03 22:30	24°♎09'29		desc. node	2572 Sep 19 19:32	14°♎38'40	
	2571 Oct 07 15:31	0°♎			2572 Sep 30 04:12	0°♎	
	2571 Oct 29 13:33	0°♎		evening max el	2572 Oct 14 12:16	17°♎20'03	25°32'11
evening max el	2571 Nov 02 00:07	3°♎39'35	24°18'12	retrograde	2572 Oct 26 16:12	24°♎18'57	
retrograde	2571 Nov 13 05:30	10°♎13'54		evening set	2572 Nov 01 15:19	21°♎49'31	
evening set	2571 Nov 18 14:22	7°♎59'23		min. Earth dist.	2572 Nov 06 00:36	16°♎59'52	0.67068 AU
asc. node	2571 Nov 22 23:27	3°♎01'23		inferior conj	2572 Nov 07 05:11	15°♎28'09	-0°33'50
min. Earth dist.	2571 Nov 23 07:27	2°♎34'42	0.67641 AU	minimum elong	2572 Nov 07 06:03	15°♎25'22	0°33'28
inferior conj	2571 Nov 24 01:08	1°♎35'16	0°22'00	asc. node	2572 Nov 08 20:31	13°♎24'41	
minimum elong	2571 Nov 24 00:36	1°♎37'03	0°21'46	morning rise	2572 Nov 12 21:04	9°♎32'32	
	2571 Nov 25 05:48	30°♎		direct	2572 Nov 16 05:24	8°♎27'56	
morning rise	2571 Nov 29 10:51	25°♎31'37		morning max el	2572 Nov 23 07:41	12°♎26'43	19°18'21
direct	2571 Dec 03 06:49	24°♎07'44			2572 Dec 06 09:20	0°♎	
morning max el	2571 Dec 11 02:45	28°♎37'07	20°20'01	greatest brilliancy	2572 Dec 07 04:17	1°♎11'42	-0.7m
	2571 Dec 12 10:16	0°♎		desc. node	2572 Dec 16 18:47	15°♎59'04	
desc. node	2571 Dec 30 21:44	25°♎32'30		morning set	2572 Dec 17 00:36	16°♎21'39	
	2572 Jan 02 20:22	0°♎			2572 Dec 25 18:40	0°♎	
morning set	2572 Jan 08 00:06	7°♎54'53		max. Earth dist.	2572 Dec 30 14:40	7°♎35'51	1.44723 AU
max. Earth dist.	2572 Jan 18 00:00	23°♎39'50	1.43564 AU				
	2572 Jan 21 21:50	0°♎					
superior conj	2572 Jan 24 01:13	3°♎31'14	-2°01'34	superior conj	2573 Jan 02 18:48	12°♎37'28	-1°39'19
minimum elong	2572 Jan 23 21:18	3°♎15'06	2°01'25	minimum elong	2573 Jan 02 10:13	12°♎03'21	1°38'34
evening rise	2572 Feb 05 15:14	24°♎57'16			2573 Jan 13 12:48	0°♎	
	2572 Feb 08 12:40	0°♎		evening rise	2573 Jan 17 05:08	6°♎04'33	
asc. node	2572 Feb 18 22:46	17°♎03'48			2573 Feb 01 03:24	0°♎	
evening max el	2572 Feb 23 03:35	22°♎11'49	18°08'59	asc. node	2573 Feb 04 19:49	4°♎40'05	
retrograde	2572 Feb 29 14:52	25°♎35'25		evening max el	2573 Feb 05 15:56	5°♎33'27	18°26'24
evening set	2572 Mar 03 10:39	24°♎55'28		retrograde	2573 Feb 12 04:14	9°♎06'57	
inferior conj	2572 Mar 09 16:59	19°♎44'33	3°38'51	evening set	2573 Feb 15 05:27	8°♎15'38	
minimum elong	2572 Mar 09 17:52	19°♎42'13	3°38'48	inferior conj	2573 Feb 21 02:25	2°♎45'50	3°39'51
min. Earth dist.	2572 Mar 12 12:55	16°♎47'45	0.62456 AU	minimum elong	2573 Feb 21 01:36	2°♎48'13	3°39'48
morning rise	2572 Mar 15 23:53	13°♎44'05			2573 Feb 23 11:41	30°♎	
direct	2572 Mar 22 22:01	11°♎09'54		min. Earth dist.	2573 Feb 23 07:11	0°♎12'42	0.64310 AU
desc. node	2572 Mar 27 20:55	12°♎19'23		morning rise	2573 Feb 26 21:08	26°♎37'45	
morning max el	2572 Apr 05 22:41	19°♎06'06	27°50'00	direct	2573 Mar 05 17:18	23°♎48'30	
	2572 Apr 15 04:27	0°♎		desc. node	2573 Mar 14 17:57	27°♎37'02	
	2572 May 03 20:57	0°♎			2573 Mar 17 13:37	0°♎	
morning set	2572 May 09 18:06	11°♎26'41		morning max el	2573 Mar 19 07:47	1°♎41'28	27°27'07
max. Earth dist.	2572 May 15 07:50	23°♎05'59	1.32586 AU		2573 Apr 09 08:41	0°♎	
asc. node	2572 May 16 22:06	26°♎32'23		morning set	2573 Apr 23 11:47	25°♎18'05	
					2573 Apr 25 20:21	0°♎	
superior conj	2572 May 17 06:56	27°♎20'18	0°03'54	max. Earth dist.	2573 Apr 28 08:38	5°♎08'42	1.33417 AU
minimum elong	2572 May 17 06:45	27°♎19'18	0°03'52				
behind sun begin	2572 May 17 01:42	26°♎51'54		superior conj	2573 May 01 12:20	11°♎46'26	-0°23'47
behind sun end	2572 May 17 11:48	27°♎46'43		minimum elong	2573 May 01 13:31	11°♎52'48	0°23'32
	2572 May 18 12:18	0°♎		asc. node	2573 May 03 19:08	16°♎39'04	
evening rise	2572 May 24 05:44	12°♎23'12		evening rise	2573 May 08 17:07	27°♎08'31	
	2572 Jun 02 04:12	0°♎			2573 May 10 01:56	0°♎	
evening max el	2572 Jun 17 15:08	21°♎28'21	24°01'07		2573 May 28 09:12	0°♎	
desc. node	2572 Jun 23 20:12	26°♎14'42		evening max el	2573 May 30 06:00	1°♎55'51	22°24'44
retrograde	2572 Jul 01 09:45	28°♎24'10		desc. node	2573 Jun 10 17:14	8°♎17'46	

retrograde	2573 Jun 12 06:25	8°☿23'17		evening max el	2574 May 12 05:12	12°♊43'58	20°56'23
evening set	2573 Jun 15 06:53	8°☿03'09		retrograde	2574 May 23 19:44	18°♊23'35	
min. Earth dist.	2573 Jun 23 12:53	4°☿28'57	0.55183 AU	evening set	2574 May 25 23:31	18°♊12'34	
inferior conj	2573 Jun 24 13:56	3°☿53'29	-3°42'42	desc. node	2574 May 28 14:13	17°♊31'58	
minimum elong	2573 Jun 24 05:51	4°☿04'57	3°40'35	inferior conj	2574 Jun 04 07:32	14°♊14'39	-1°56'51
morning rise	2573 Jul 03 06:53	0°☿02'12		minimum elong	2574 Jun 04 02:04	14°♊22'24	1°54'56
	2573 Jul 03 10:58	30°♈♊		min. Earth dist.	2574 Jun 05 01:06	13°♊49'43	0.54904 AU
direct	2573 Jul 06 06:36	29°♊41'57		morning rise	2574 Jun 13 04:26	10°♊11'24	
	2573 Jul 09 00:34	0°☿		direct	2574 Jun 16 15:54	9°♊45'18	
morning max el	2573 Jul 17 18:49	5°☿03'08	21°10'16	morning max el	2574 Jun 29 15:44	15°♊58'27	22°46'51
asc. node	2573 Jul 30 18:23	23°☿09'46			2574 Jul 10 15:42	0°☿	
	2573 Aug 03 08:41	0°♊		asc. node	2574 Jul 17 15:25	12°☿28'57	
morning set	2573 Aug 06 15:23	6°♊38'51		morning set	2574 Jul 22 02:04	21°☿31'05	
					2574 Jul 26 01:43	0°♊	
superior conj	2573 Aug 14 00:45	22°♊04'05	1°43'36	superior conj	2574 Jul 29 04:49	6°♊41'50	1°35'44
minimum elong	2573 Aug 13 23:47	21°♊59'10	1°43'34	minimum elong	2574 Jul 29 02:54	6°♊31'37	1°35'33
	2573 Aug 17 22:22	0°♊		max. Earth dist.	2574 Aug 01 02:51	12°♊50'52	1.33990 AU
max. Earth dist.	2573 Aug 18 08:14	0°♊49'09	1.35414 AU	evening rise	2574 Aug 05 23:39	22°♊43'09	
evening rise	2573 Aug 22 13:22	8°♊59'11			2574 Aug 09 18:46	0°♊	
	2573 Sep 03 14:22	0°♊		desc. node	2574 Aug 24 13:36	24°♊40'44	
desc. node	2573 Sep 06 16:35	4°♊51'34			2574 Aug 28 07:13	0°♊	
	2573 Sep 26 00:42	0°♊		evening max el	2574 Sep 09 12:32	14°♊26'22	27°13'19
evening max el	2573 Sep 27 00:26	0°♊58'29	26°33'04	retrograde	2574 Sep 22 22:04	21°♊44'59	
retrograde	2573 Oct 09 21:54	8°♊12'02		evening set	2574 Sep 29 21:12	19°♊01'54	
evening set	2573 Oct 16 10:25	5°♊31'58		min. Earth dist.	2574 Oct 03 16:48	15°♊24'07	0.64866 AU
min. Earth dist.	2573 Oct 20 12:28	1°♊18'30	0.66143 AU	inferior conj	2574 Oct 05 21:16	12°♊59'23	-2°31'40
	2573 Oct 21 14:40	30°♈♊		minimum elong	2574 Oct 06 01:22	12°♊48'04	2°30'08
inferior conj	2573 Oct 22 04:39	29°♊17'49	-1°32'22	morning rise	2574 Oct 12 06:31	7°♊28'11	
minimum elong	2573 Oct 22 07:08	29°♊10'20	1°31'20	asc. node	2574 Oct 13 14:36	7°♊00'15	
asc. node	2573 Oct 26 17:33	24°♊31'38		direct	2574 Oct 14 22:13	6°♊51'01	
morning rise	2573 Oct 28 04:27	23°♊32'55		morning max el	2574 Oct 21 10:15	10°♊19'25	18°03'06
direct	2573 Oct 31 03:16	22°♊43'59			2574 Nov 03 22:38	0°♊	
morning max el	2573 Nov 06 19:02	26°♊23'00	18°32'24	morning set	2574 Nov 08 05:58	7°♊10'55	
	2573 Nov 09 22:36	0°♊		desc. node	2574 Nov 20 12:52	27°♊20'07	
morning set	2573 Nov 27 00:40	26°♊03'06					
	2573 Nov 29 12:03	0°♊		superior conj	2574 Nov 22 04:52	0°♊00'15	-0°11'17
desc. node	2573 Dec 03 15:50	6°♊36'24		minimum elong	2574 Nov 22 03:28	29°♊54'40	0°11'05
				behind sun begin	2574 Nov 21 19:38	29°♊23'20	
superior conj	2573 Dec 12 21:12	21°♊08'16	-0°59'29	behind sun end	2574 Nov 22 11:19	0°♊25'57	
minimum elong	2573 Dec 12 13:50	20°♊39'21	0°58'34		2574 Nov 22 04:49	0°♊	
max. Earth dist.	2573 Dec 13 09:00	21°♊54'36	1.45176 AU	max. Earth dist.	2574 Nov 26 03:45	6°♊16'40	1.44891 AU
	2573 Dec 18 12:41	0°♊		evening rise	2574 Dec 08 13:42	25°♊37'44	
evening rise	2573 Dec 28 19:46	16°♊15'05			2574 Dec 11 09:43	0°♊	
	2574 Jan 06 11:58	0°♊		greatest brilliancy	2574 Dec 22 08:05	16°♊37'15	-0.7m
greatest brilliancy	2574 Jan 06 22:11	0°♊40'07	-0.8m		2575 Jan 01 01:31	0°♊	
evening max el	2574 Jan 20 01:57	19°♊01'02	19°01'34	evening max el	2575 Jan 03 07:42	2°♊30'55	19°52'56
asc. node	2574 Jan 22 16:50	21°♊19'03		asc. node	2575 Jan 09 13:52	6°♊45'32	
retrograde	2574 Jan 26 23:13	22°♊55'15		retrograde	2575 Jan 10 20:44	6°♊54'38	
evening set	2574 Jan 30 06:41	21°♊51'40		evening set	2575 Jan 14 11:55	5°♊37'29	
inferior conj	2574 Feb 04 21:19	16°♊05'12	3°25'20	inferior conj	2575 Jan 19 22:39	29°♊36'54	2°59'09
minimum elong	2574 Feb 04 19:21	16°♊11'25	3°25'03	minimum elong	2575 Jan 19 20:08	29°♊45'17	2°58'33
min. Earth dist.	2574 Feb 06 10:43	14°♊07'23	0.65797 AU		2575 Jan 19 15:43	30°♈♊	
morning rise	2574 Feb 10 07:42	9°♊53'14		min. Earth dist.	2575 Jan 20 21:53	28°♊19'31	0.66879 AU
direct	2574 Feb 16 19:26	7°♊02'49		morning rise	2575 Jan 25 04:07	23°♊23'30	
morning max el	2574 Mar 01 17:46	14°♊41'03	26°33'39	direct	2575 Jan 31 03:22	20°♊43'39	
desc. node	2574 Mar 01 14:59	14°♊34'03		morning max el	2575 Feb 12 02:37	27°♊52'06	25°18'31
	2574 Mar 14 06:26	0°♈			2575 Feb 14 03:10	0°♊	
	2574 Apr 02 02:41	0°♈		desc. node	2575 Feb 16 12:01	2°♊41'42	
morning set	2574 Apr 06 18:01	8°♈31'40			2575 Mar 07 23:33	0°♈	
max. Earth dist.	2574 Apr 10 22:24	16°♈37'19	1.34704 AU	morning set	2575 Mar 20 08:06	20°♈53'33	
				max. Earth dist.	2575 Mar 24 00:30	27°♈40'03	1.36436 AU
superior conj	2574 Apr 15 11:32	25°♈49'25	-0°52'05		2575 Mar 25 06:10	0°♈	
minimum elong	2574 Apr 15 14:13	26°♈03'14	0°51'35				
	2574 Apr 17 11:52	0°♈		superior conj	2575 Mar 30 01:47	9°♈21'21	-1°19'23
asc. node	2574 Apr 20 16:10	6°♈39'15		minimum elong	2575 Mar 30 05:43	9°♈40'53	1°18'47
evening rise	2574 Apr 23 02:09	11°♈41'28		evening rise	2575 Apr 07 06:39	25°♈55'27	
	2574 May 02 16:17	0°♊					

asc. node	2575 Apr 07 13:11	26° Υ 28'24		minimum elong	2576 Mar 12 07:51	22° X 33'49	1°42'46
	2575 Apr 09 07:27	0° B			2576 Mar 16 04:46	0° Υ	
evening max el	2575 Apr 24 16:17	24° B 10'22	19°44'25	evening rise	2576 Mar 21 04:06	9° Υ 43'37	
retrograde	2575 May 04 12:52	28° B 56'31		asc. node	2576 Mar 24 10:13	16° Υ 01'40	
evening set	2575 May 06 13:01	28° B 45'33			2576 Apr 01 12:10	0° B	
inferior conj	2575 May 15 07:45	24° B 43'32	0°02'31	evening max el	2576 Apr 06 14:20	6° B 16'03	18°51'59
minimum elong	2575 May 15 07:52	24° B 43'22	0°02'29	retrograde	2576 Apr 14 21:45	10° B 18'48	
transit middle	2575 May 15 07:52	24° B 43'22	0°02'29	evening set	2576 Apr 17 02:34	10° B 02'54	
transit begin	2575 May 15 03:58	24° B 49'25		inferior conj	2576 Apr 25 01:49	5° B 44'38	1°43'37
transit end	2575 May 15 11:46	24° B 37'18		minimum elong	2576 Apr 25 05:21	5° B 38'17	1°42'31
desc. node	2575 May 15 11:12	24° B 38'10		min. Earth dist.	2576 Apr 28 07:05	3° B 26'30	0.57095 AU
min. Earth dist.	2575 May 17 14:57	23° B 18'01	0.55590 AU	desc. node	2576 May 01 08:14	1° B 32'25	
morning rise	2575 May 24 00:16	20° B 11'25		morning rise	2576 May 03 05:00	0° B 38'04	
direct	2575 May 28 08:15	19° B 29'41			2576 May 04 23:41	30° R Υ	
morning max el	2575 Jun 11 06:35	26° B 27'21	24°29'16	direct	2576 May 08 13:51	29° Υ 28'41	
	2575 Jun 14 16:03	0° II			2576 May 12 04:37	0° B	
	2575 Jul 03 11:01	0° E		morning max el	2576 May 22 21:33	6° B 56'10	26°02'46
asc. node	2575 Jul 04 12:28	2° E 09'27			2576 Jun 08 22:30	0° II	
morning set	2575 Jul 06 13:52	6° E 26'51		morning set	2576 Jun 20 01:08	21° II 20'06	
				asc. node	2576 Jun 20 09:30	22° II 04'18	
					2576 Jun 24 01:42	0° E	
superior conj	2575 Jul 13 13:29	21° E 32'50	1°22'31	superior conj	2576 Jun 27 00:36	6° E 29'12	1°04'51
minimum elong	2575 Jul 13 11:07	21° E 20'02	1°22'12	minimum elong	2576 Jun 26 22:18	6° E 16'35	1°04'28
max. Earth dist.	2575 Jul 15 06:21	25° E 14'06	1.32974 AU	max. Earth dist.	2576 Jun 27 16:02	7° E 54'03	1.32360 AU
	2575 Jul 17 11:52	0° Ω		evening rise	2576 Jul 04 00:19	21° E 32'53	
evening rise	2575 Jul 20 20:23	6° Ω 58'00			2576 Jul 08 04:39	0° Ω	
	2575 Aug 02 07:07	0° M			2576 Jul 26 10:46	0° M	
desc. node	2575 Aug 11 10:35	13° M 56'27		desc. node	2576 Jul 28 07:35	2° M 24'04	
evening max el	2575 Aug 22 23:10	27° M 32'39	27°26'10	evening max el	2576 Aug 04 05:36	10° M 02'29	27°06'48
	2575 Aug 25 18:11	0° E		retrograde	2576 Aug 18 02:31	17° M 15'53	
retrograde	2575 Sep 05 15:56	4° E 49'37		evening set	2576 Aug 25 04:30	15° M 00'35	
evening set	2575 Sep 12 20:36	2° E 14'07		min. Earth dist.	2576 Aug 28 19:53	12° M 17'40	0.61350 AU
	2575 Sep 15 13:43	30° R M		inferior conj	2576 Aug 31 23:00	9° M 33'14	-4°18'31
min. Earth dist.	2575 Sep 16 11:41	29° M 08'19	0.63252 AU	minimum elong	2576 Sep 01 04:21	9° M 21'28	4°17'24
inferior conj	2575 Sep 19 04:29	26° M 27'33	-3°28'39	morning rise	2576 Sep 08 05:53	4° M 39'27	
minimum elong	2575 Sep 19 09:46	26° M 14'23	3°27'03	direct	2576 Sep 10 15:34	4° M 15'39	
morning rise	2575 Sep 26 00:16	21° M 13'18		asc. node	2576 Sep 16 08:43	6° M 35'22	
direct	2575 Sep 28 11:33	20° M 44'17		morning max el	2576 Sep 17 16:52	7° M 47'01	17°58'08
asc. node	2575 Sep 30 11:39	21° M 03'49			2576 Oct 02 01:12	0° E	
morning max el	2575 Oct 05 02:33	24° M 10'08	17°51'20	morning set	2576 Oct 03 13:02	2° E 44'15	
	2575 Oct 09 19:25	0° E					
morning set	2575 Oct 21 12:15	19° E 31'16		superior conj	2576 Oct 13 20:06	21° E 18'39	1°07'52
	2575 Oct 27 12:59	0° M		minimum elong	2576 Oct 14 00:33	21° E 38'04	1°07'20
superior conj	2575 Nov 02 10:59	9° M 59'50	0°33'29		2576 Oct 18 21:36	0° M	
minimum elong	2575 Nov 02 14:15	10° M 13'25	0°33'01	max. Earth dist.	2576 Oct 21 09:14	4° M 08'51	1.42353 AU
desc. node	2575 Nov 07 09:55	18° M 07'15		desc. node	2576 Oct 24 06:55	8° M 53'59	
max. Earth dist.	2575 Nov 08 20:39	20° M 27'13	1.43912 AU	evening rise	2576 Oct 27 14:28	14° M 12'36	
	2575 Nov 14 21:23	0° X			2576 Nov 06 21:18	0° X	
evening rise	2575 Nov 17 22:23	4° X 43'19		evening max el	2576 Nov 29 03:03	29° X 34'24	22°12'52
	2575 Dec 04 20:24	0° B			2576 Nov 29 13:17	0° B	
evening max el	2575 Dec 17 08:08	16° B 02'11	20°57'56	retrograde	2576 Dec 08 14:50	5° B 13'09	
retrograde	2575 Dec 25 18:31	21° B 01'45		evening set	2576 Dec 13 02:53	3° B 24'35	
asc. node	2575 Dec 27 10:53	20° B 46'04		asc. node	2576 Dec 13 07:56	3° B 14'03	
evening set	2575 Dec 29 19:14	19° B 29'31			2576 Dec 16 07:25	30° R X	
inferior conj	2576 Jan 04 04:01	13° B 17'40	2°23'50	inferior conj	2576 Dec 18 11:19	27° X 04'46	1°41'08
minimum elong	2576 Jan 04 01:29	13° B 26'22	2°23'02	minimum elong	2576 Dec 18 09:15	27° X 11'57	1°40'20
min. Earth dist.	2576 Jan 04 14:31	12° B 41'31	0.67560 AU	min. Earth dist.	2576 Dec 18 10:22	27° X 08'06	0.67861 AU
morning rise	2576 Jan 09 07:32	7° B 04'42		morning rise	2576 Dec 23 15:29	20° X 53'56	
direct	2576 Jan 14 16:13	4° B 43'24		direct	2576 Dec 28 09:07	18° X 55'05	
morning max el	2576 Jan 25 11:00	11° B 08'58	23°51'57	morning max el	2577 Jan 06 21:52	24° X 32'19	22°23'48
desc. node	2576 Feb 03 09:05	21° B 39'47			2577 Jan 11 18:32	0° B	
	2576 Feb 09 11:31	0° \approx		desc. node	2577 Jan 20 06:09	11° B 13'52	
	2576 Feb 28 18:09	0° X			2577 Feb 01 22:43	0° \approx	
morning set	2576 Mar 01 00:06	2° X 07'36		morning set	2577 Feb 09 12:20	12° \approx 00'17	
max. Earth dist.	2576 Mar 04 20:01	8° X 48'19	1.38502 AU	max. Earth dist.	2577 Feb 14 16:52	20° \approx 37'03	1.40658 AU
					2577 Feb 20 03:11	0° X	
superior conj	2576 Mar 12 03:27	22° X 12'56	-1°43'15				

superior conj	2577 Feb 22 11:56	4° K 12'35	-2°00'13	evening rise	2578 Feb 15 12:15	5° K 28'58	
minimum elong	2577 Feb 22 15:07	4° K 26'52	2°00'03	asc. node	2578 Feb 26 04:18	23° K 55'25	
evening rise	2577 Mar 04 15:18	22° K 58'06			2578 Mar 02 13:09	0° Y	
	2577 Mar 08 09:45	0° Y		evening max el	2578 Mar 04 07:23	1° Y 55'24	18°07'22
asc. node	2577 Mar 11 07:15	5° Y 13'19		retrograde	2578 Mar 10 22:27	5° Y 19'29	
evening max el	2577 Mar 20 20:29	18° Y 54'20	18°19'45	evening set	2578 Mar 13 15:01	4° Y 45'52	
retrograde	2577 Mar 28 01:58	22° Y 29'54			2578 Mar 19 22:51	30° R K	
evening set	2577 Mar 30 12:52	22° Y 06'04		inferior conj	2578 Mar 20 04:21	29° K 46'37	3°29'08
inferior conj	2577 Apr 06 17:25	17° Y 27'21	2°52'04	minimum elong	2578 Mar 20 06:22	29° K 41'42	3°28'54
minimum elong	2577 Apr 06 21:03	17° Y 19'38	2°51'15	min. Earth dist.	2578 Mar 23 07:44	26° K 44'13	0.61258 AU
min. Earth dist.	2577 Apr 10 03:49	14° Y 34'50	0.59101 AU	morning rise	2578 Mar 26 19:58	23° K 52'34	
morning rise	2577 Apr 14 02:35	11° Y 51'59		direct	2578 Apr 02 15:02	21° K 33'18	
desc. node	2577 Apr 18 05:17	10° Y 19'15		desc. node	2578 Apr 05 02:20	21° K 50'31	
direct	2577 Apr 20 08:46	10° Y 06'53		morning max el	2578 Apr 16 20:04	29° K 28'39	27°46'54
morning max el	2577 May 04 17:39	17° Y 52'26	27°12'03		2578 Apr 17 08:34	0° Y	
	2577 May 14 20:10	0° B			2578 May 08 18:31	0° B	
	2577 Jun 01 10:48	0° II		morning set	2578 May 19 15:14	20° B 36'04	
morning set	2577 Jun 04 10:14	6° II 05'30			2578 May 24 02:17	0° II	
asc. node	2577 Jun 07 06:33	12° II 08'29		asc. node	2578 May 25 03:36	2° II 16'52	
max. Earth dist.	2577 Jun 11 04:14	20° II 40'06	1.32137 AU	max. Earth dist.	2578 May 25 14:59	3° II 18'39	1.32304 AU
superior conj	2577 Jun 11 12:25	21° II 25'10	0°43'29	superior conj	2578 May 26 23:11	6° II 14'21	0°19'04
minimum elong	2577 Jun 11 10:38	21° II 15'21	0°43'08	minimum elong	2578 May 26 22:19	6° II 09'37	0°18'52
	2577 Jun 15 10:13	0° D		evening rise	2578 Jun 02 20:10	21° II 11'07	
evening rise	2577 Jun 18 08:58	6° D 19'49			2578 Jun 07 02:47	0° D	
	2577 Jun 30 19:29	0° O			2578 Jun 26 06:29	0° O	
desc. node	2577 Jul 15 04:34	19° O 43'41		evening max el	2578 Jun 28 21:51	2° O 43'33	24°54'39
evening max el	2577 Jul 17 05:15	21° O 45'48	26°14'24	desc. node	2578 Jul 02 01:35	5° O 27'45	
retrograde	2577 Jul 31 04:49	28° O 56'25		retrograde	2578 Jul 12 21:01	9° O 48'26	
evening set	2577 Aug 06 16:12	27° O 13'31		evening set	2578 Jul 18 04:10	8° O 44'27	
min. Earth dist.	2577 Aug 10 18:03	24° O 37'51	0.59289 AU	min. Earth dist.	2578 Jul 23 09:18	5° O 57'10	0.57309 AU
inferior conj	2577 Aug 14 01:17	22° O 06'59	-4°53'13	inferior conj	2578 Jul 26 08:13	3° O 59'46	-5°00'23
minimum elong	2577 Aug 14 04:32	22° O 00'46	4°52'54	minimum elong	2578 Jul 26 06:42	4° O 02'17	5°00'19
morning rise	2577 Aug 21 19:01	17° O 36'11			2578 Aug 02 22:14	30° R D	
direct	2577 Aug 24 05:49	17° O 15'27		morning rise	2578 Aug 03 11:51	29° D 50'55	
morning max el	2577 Sep 01 02:04	21° O 02'00	18°24'46	direct	2578 Aug 06 02:01	29° D 31'42	
asc. node	2577 Sep 03 05:47	23° O 21'02			2578 Aug 09 03:11	0° O	
	2577 Sep 07 22:59	0° P		morning max el	2578 Aug 15 02:58	3° O 45'31	19°12'29
morning set	2577 Sep 17 03:00	16° P 35'00		asc. node	2578 Aug 21 02:51	11° O 05'38	
	2577 Sep 24 03:57	0° D			2578 Aug 31 15:34	0° P	
superior conj	2577 Sep 26 04:45	3° D 46'54	1°30'26	morning set	2578 Sep 01 02:13	0° P 52'51	
minimum elong	2577 Sep 26 08:07	4° D 02'25	1°30'09	superior conj	2578 Sep 09 07:19	17° P 08'36	1°42'19
max. Earth dist.	2577 Oct 03 16:17	17° D 08'10	1.40412 AU	minimum elong	2578 Sep 09 08:52	17° P 16'08	1°42'15
evening rise	2577 Oct 08 02:44	24° D 37'59		max. Earth dist.	2578 Sep 15 20:04	29° P 25'34	1.38344 AU
desc. node	2577 Oct 11 03:56	29° D 37'06			2578 Sep 16 03:39	0° D	
	2577 Oct 11 09:37	0° M		evening rise	2578 Sep 19 15:01	6° D 10'41	
	2577 Oct 31 17:25	0° J		desc. node	2578 Sep 28 00:57	20° D 12'51	
evening max el	2577 Nov 11 17:36	13° J 08'50	23°32'37		2578 Oct 04 09:13	0° M	
retrograde	2577 Nov 22 08:18	19° J 25'14		evening max el	2578 Oct 25 06:01	26° M 47'38	24°50'50
evening set	2577 Nov 27 09:14	17° J 19'53			2578 Oct 28 20:13	0° J	
asc. node	2577 Nov 30 05:00	14° J 20'49		retrograde	2578 Nov 05 21:50	3° J 34'30	
inferior conj	2577 Dec 02 18:45	10° J 55'54	0°52'20	evening set	2578 Nov 11 12:40	1° J 13'15	
minimum elong	2577 Dec 02 17:33	11° J 00'01	0°51'50		2578 Nov 12 19:36	30° R M	
min. Earth dist.	2577 Dec 02 07:03	11° J 35'56	0.67813 AU	min. Earth dist.	2578 Nov 16 02:17	26° M 03'08	0.67431 AU
morning rise	2577 Dec 08 01:51	4° J 49'02		inferior conj	2578 Nov 17 00:34	24° M 49'29	-0°01'16
direct	2577 Dec 12 05:12	3° J 13'03		minimum elong	2578 Nov 17 00:36	24° M 49'23	0°01'15
morning max el	2577 Dec 20 14:37	8° J 05'06	21°01'58	transit middle	2578 Nov 17 00:36	24° M 49'23	0°01'15
	2578 Jan 06 07:13	0° Z		transit begin	2578 Nov 16 21:51	24° M 58'29	
desc. node	2578 Jan 07 03:11	1° Z 13'28		transit end	2578 Nov 17 03:21	24° M 40'17	
morning set	2578 Jan 19 20:49	20° Z 36'10		asc. node	2578 Nov 17 02:03	24° M 44'35	
	2578 Jan 25 18:46	0° \approx		morning rise	2578 Nov 22 12:40	18° M 48'49	
max. Earth dist.	2578 Jan 27 19:55	3° \approx 19'17	1.42618 AU	direct	2578 Nov 26 03:21	17° M 33'40	
superior conj	2578 Feb 03 21:53	15° \approx 07'03	-2°05'40	morning max el	2578 Dec 03 15:06	21° M 49'12	19°51'57
minimum elong	2578 Feb 03 21:13	15° \approx 04'13	2°05'40		2578 Dec 10 09:12	0° J	
	2578 Feb 12 10:42	0° K		desc. node	2578 Dec 25 00:14	21° J 31'57	
				morning set	2578 Dec 29 16:44	28° J 44'06	

	2578 Dec 30 12:23	0°♄			2579 Dec 23 07:55	0°♄		
max. Earth dist.	2579 Jan 10 06:16	16°♄50'43	1.44131 AU		max. Earth dist.	2579 Dec 23 22:33	0°♄57'30	1.45010 AU
superior conj	2579 Jan 15 05:46	24°♄50'45	-1°54'32		superior conj	2579 Dec 25 14:49	3°♄36'03	-1°24'12
minimum elong	2579 Jan 14 23:28	24°♄25'14	1°54'10		minimum elong	2579 Dec 25 05:53	3°♄00'48	1°23'15
	2579 Jan 18 09:31	0°♄			evening rise	2580 Jan 09 18:34	27°♄50'26	
evening rise	2579 Jan 28 14:37	17°♄08'18				2580 Jan 11 02:27	0°♄	
	2579 Feb 05 04:21	0°♄			evening max el	2580 Jan 30 07:41	28°♄36'26	18°39'21
asc. node	2579 Feb 13 01:21	11°♄58'59			asc. node	2580 Jan 30 22:22	29°♄12'33	
evening max el	2579 Feb 15 20:02	15°♄11'37	18°14'11			2580 Jan 31 19:33	0°♄	
retrograde	2579 Feb 22 06:46	18°♄37'58			retrograde	2580 Feb 05 22:46	2°♄17'09	
evening set	2579 Feb 25 04:45	17°♄53'25			evening set	2580 Feb 09 02:35	1°♄20'40	
inferior conj	2579 Mar 03 06:43	12°♄34'33	3°41'25			2580 Feb 10 22:09	30°♄	
minimum elong	2579 Mar 03 06:50	12°♄34'15	3°41'25		inferior conj	2580 Feb 14 20:32	25°♄43'43	3°35'17
min. Earth dist.	2579 Mar 05 20:32	9°♄45'34	0.63286 AU		minimum elong	2580 Feb 14 19:09	25°♄47'53	3°35'10
morning rise	2579 Mar 09 07:57	6°♄30'11			min. Earth dist.	2580 Feb 16 18:44	23°♄24'36	0.64996 AU
direct	2579 Mar 16 06:19	3°♄47'26			morning rise	2580 Feb 20 11:17	19°♄33'54	
desc. node	2579 Mar 22 23:23	5°♄55'02			direct	2580 Feb 27 04:41	16°♄42'23	
morning max el	2579 Mar 30 03:16	11°♄44'07	27°44'20		desc. node	2580 Mar 08 20:26	21°♄58'38	
	2579 Apr 13 14:46	0°♄			morning max el	2580 Mar 11 12:46	24°♄30'13	27°07'36
	2579 May 01 04:09	0°♄				2580 Mar 16 12:09	0°♄	
morning set	2579 May 03 13:51	4°♄44'19				2580 Apr 06 00:36	0°♄	
max. Earth dist.	2579 May 08 20:17	15°♄36'34	1.32882 AU		morning set	2580 Apr 16 03:09	18°♄21'07	
					max. Earth dist.	2580 Apr 20 16:33	27°♄24'33	1.33905 AU
						2580 Apr 21 22:54	0°♄	
superior conj	2579 May 11 07:07	20°♄50'57	-0°07'42					
minimum elong	2579 May 11 07:29	20°♄52'58	0°07'37		superior conj	2580 Apr 24 10:12	5°♄08'37	-0°35'47
behind sun begin	2579 May 11 02:49	20°♄27'51			minimum elong	2580 Apr 24 12:01	5°♄18'12	0°35'25
behind sun end	2579 May 11 12:09	21°♄18'06			asc. node	2580 Apr 27 21:40	12°♄30'14	
asc. node	2579 May 12 00:38	22°♄25'27			evening rise	2580 May 01 18:37	20°♄41'42	
	2579 May 15 12:40	0°♄				2580 May 06 08:34	0°♄	
evening rise	2579 May 18 08:00	6°♄00'27			evening max el	2580 May 22 05:18	23°♄48'26	21°45'38
	2579 May 31 02:39	0°♄			retrograde	2580 Jun 03 16:41	29°♄56'39	
evening max el	2579 Jun 10 11:26	13°♄14'12	23°19'58		desc. node	2580 Jun 04 19:38	29°♄53'46	
desc. node	2579 Jun 18 22:37	19°♄01'39			evening set	2580 Jun 06 06:18	29°♄41'51	
retrograde	2579 Jun 24 00:38	20°♄00'25			inferior conj	2580 Jun 15 15:51	25°♄39'26	-3°01'46
evening set	2579 Jun 27 19:41	19°♄28'54			minimum elong	2580 Jun 15 08:10	25°♄50'11	2°59'25
min. Earth dist.	2579 Jul 04 21:19	16°♄15'19	0.55755 AU		min. Earth dist.	2580 Jun 15 08:43	25°♄49'25	0.54948 AU
inferior conj	2579 Jul 06 19:15	15°♄07'36	-4°25'20		morning rise	2580 Jun 24 11:13	21°♄45'34	
minimum elong	2579 Jul 06 12:28	15°♄17'39	4°24'05		direct	2580 Jun 27 15:18	21°♄23'30	
morning rise	2579 Jul 15 07:44	11°♄13'29			morning max el	2580 Jul 09 19:23	27°♄06'42	21°49'46
direct	2579 Jul 18 03:16	10°♄54'12				2580 Jul 12 14:49	0°♄	
morning max el	2579 Jul 28 16:55	15°♄48'09	20°21'31		asc. node	2580 Jul 24 20:55	18°♄39'47	
asc. node	2579 Aug 07 23:53	29°♄35'26			morning set	2580 Jul 30 16:57	0°♄17'55	
	2579 Aug 08 05:36	0°♄				2580 Jul 30 13:31	0°♄	
morning set	2579 Aug 16 07:37	15°♄29'07						
	2579 Aug 23 09:11	0°♄			superior conj	2580 Aug 06 23:02	15°♄35'36	1°40'58
superior conj	2579 Aug 23 22:41	1°♄08'28	1°45'17		minimum elong	2580 Aug 06 21:36	15°♄28'08	1°40'53
minimum elong	2579 Aug 23 22:31	1°♄07'41	1°45'16		max. Earth dist.	2580 Aug 10 15:53	23°♄14'25	1.34768 AU
max. Earth dist.	2579 Aug 29 02:09	11°♄18'55	1.36404 AU			2580 Aug 14 01:21	0°♄	
evening rise	2579 Sep 02 00:42	18°♄43'47			evening rise	2580 Aug 15 03:20	2°♄05'53	
	2579 Sep 08 09:50	0°♄				2580 Aug 31 08:26	0°♄	
desc. node	2579 Sep 14 21:58	10°♄35'53			desc. node	2580 Aug 31 18:59	0°♄40'01	
	2579 Sep 28 13:01	0°♄			evening max el	2580 Sep 19 06:40	24°♄04'48	26°53'06
evening max el	2579 Oct 07 18:11	10°♄28'32	26°00'14			2580 Sep 27 05:02	0°♄	
retrograde	2579 Oct 20 06:29	17°♄35'00			retrograde	2580 Oct 02 09:41	1°♄20'31	
evening set	2579 Oct 26 11:21	15°♄00'40				2580 Oct 07 04:09	30°♄	
min. Earth dist.	2579 Oct 30 17:35	10°♄26'02	0.66714 AU		evening set	2580 Oct 09 03:12	28°♄38'20	
inferior conj	2579 Nov 01 02:54	8°♄41'44	-0°58'27		min. Earth dist.	2580 Oct 13 02:30	24°♄40'08	0.65651 AU
minimum elong	2579 Nov 01 04:27	8°♄36'55	0°57'46		inferior conj	2580 Oct 14 23:45	22°♄28'49	-1°57'34
asc. node	2579 Nov 03 23:05	5°♄20'15			minimum elong	2580 Oct 15 02:56	22°♄19'33	1°56'17
morning rise	2579 Nov 06 21:55	2°♄50'00			asc. node	2580 Oct 20 20:07	16°♄58'57	
direct	2579 Nov 10 01:56	1°♄52'29			morning rise	2580 Oct 21 03:23	16°♄49'11	
morning max el	2579 Nov 16 22:53	5°♄41'48	18°56'44		direct	2580 Oct 23 22:59	16°♄05'33	
	2579 Dec 04 04:28	0°♄			morning max el	2580 Oct 30 12:09	19°♄38'42	18°17'47
morning set	2579 Dec 09 01:26	7°♄37'43				2580 Nov 07 09:07	0°♄	
desc. node	2579 Dec 11 21:16	12°♄03'30			morning set	2580 Nov 18 14:04	17°♄57'01	

	2580 Nov 26 01:14	0°♊		superior conj	2581 Nov 13 08:31	21°♍25'19	0°08'44
desc. node	2580 Nov 27 18:17	2°♊43'57		minimum elong	2581 Nov 13 09:31	21°♍29'22	0°08'35
				behind sun begin	2581 Nov 13 00:50	20°♍54'07	
superior conj	2580 Dec 03 16:39	12°♊07'54 -0°39'16		behind sun end	2581 Nov 13 18:13	22°♍04'33	
minimum elong	2580 Dec 03 11:37	11°♊48'02 0°38'36		desc. node	2581 Nov 14 15:19	23°♍29'42	
max. Earth dist.	2580 Dec 05 17:56	15°♊21'47 1.45153 AU		max. Earth dist.	2581 Nov 18 12:35	29°♍42'34	1.44555 AU
	2580 Dec 15 02:18	0°♋			2581 Nov 18 16:58	0°♊	
evening rise	2580 Dec 19 23:35	7°♋38'27		evening rise	2581 Nov 29 11:46	16°♊49'38	
greatest brilliancy	2580 Dec 31 06:19	25°♋11'22 -0.7m			2581 Dec 08 03:10	0°♋	
	2581 Jan 03 10:51	0°♌		evening max el	2581 Dec 26 19:36	25°♋35'54	20°19'05
evening max el	2581 Jan 12 16:05	12°♌05'21 19°21'36			2582 Jan 02 01:33	0°♌	
asc. node	2581 Jan 16 19:23	15°♌22'36		retrograde	2582 Jan 03 17:07	0°♌14'33	
retrograde	2581 Jan 19 19:06	16°♌10'51		asc. node	2582 Jan 03 16:25	0°♌14'33	
evening set	2581 Jan 23 05:47	15°♌01'27			2582 Jan 05 07:28	30°♌♊	
inferior conj	2581 Jan 28 18:28	9°♌08'31 3°15'29		evening set	2582 Jan 07 12:09	28°♋51'02	
minimum elong	2581 Jan 28 16:12	9°♌15'52 3°15'03		inferior conj	2582 Jan 12 21:48	22°♋44'59	2°45'11
min. Earth dist.	2581 Jan 30 01:34	7°♌27'54 0.66310 AU		minimum elong	2582 Jan 12 19:13	22°♋53'45	2°44'28
morning rise	2581 Feb 03 02:23	2°♌55'56		min. Earth dist.	2582 Jan 13 15:22	21°♋45'30	0.67212 AU
direct	2581 Feb 09 09:11	0°♌09'03		morning rise	2582 Jan 18 02:06	16°♋31'30	
morning max el	2581 Feb 21 22:20	7°♌35'40 26°03'49		direct	2582 Jan 23 19:09	13°♋59'07	
desc. node	2581 Feb 23 17:29	9°♌28'36		morning max el	2582 Feb 04 07:01	20°♋50'50	24°42'34
	2581 Mar 11 09:30	0°♍		desc. node	2582 Feb 10 14:31	28°♋00'12	
	2581 Mar 29 11:03	0°♎			2582 Feb 12 04:36	0°♌	
morning set	2581 Mar 30 03:06	1°♎14'07			2582 Mar 04 14:41	0°♍	
max. Earth dist.	2581 Apr 03 01:25	8°♎41'06 1.35391 AU		morning set	2582 Mar 12 08:36	13°♍09'36	
				max. Earth dist.	2582 Mar 16 00:11	19°♍43'18	1.37285 AU
superior conj	2581 Apr 08 05:57	18°♎59'16 -1°03'55			2582 Mar 21 11:23	0°♎	
minimum elong	2581 Apr 08 09:13	19°♎15'52 1°03'21					
	2581 Apr 13 14:23	0°♏		superior conj	2582 Mar 22 15:19	2°♎15'15	-1°30'07
asc. node	2581 Apr 14 18:41	2°♏26'22		minimum elong	2582 Mar 22 19:36	2°♎36'07	1°29'32
evening rise	2581 Apr 16 02:00	5°♏07'34		evening rise	2582 Mar 31 03:54	19°♎11'52	
	2581 Apr 30 04:02	0°♐		asc. node	2582 Apr 01 15:43	22°♎09'41	
evening max el	2581 May 04 09:19	4°♐51'12 20°23'28			2582 Apr 05 17:39	0°♏	
retrograde	2581 May 15 06:00	10°♐07'59		evening max el	2582 Apr 17 01:14	16°♏34'21	19°19'36
evening set	2581 May 17 06:47	9°♐57'39		retrograde	2582 Apr 26 05:13	21°♏00'47	
desc. node	2581 May 22 16:39	8°♐03'53		evening set	2582 Apr 28 06:37	20°♏48'18	
inferior conj	2581 May 26 10:25	5°♐59'34 -1°05'45		inferior conj	2582 May 06 17:17	16°♏40'07	0°48'59
minimum elong	2581 May 26 07:19	6°♐04'06 1°04'36		minimum elong	2582 May 06 19:17	16°♏36'50	0°48'17
min. Earth dist.	2581 May 27 21:09	5°♐08'53 0.55080 AU		min. Earth dist.	2582 May 09 11:55	14°♏50'36	0.56143 AU
morning rise	2581 Jun 04 06:43	1°♐46'06		desc. node	2582 May 09 13:41	14°♏47'49	
direct	2581 Jun 08 01:55	1°♐14'56		morning rise	2582 May 15 05:00	11°♏52'54	
morning max el	2581 Jun 21 12:59	7°♐47'46 23°30'34		direct	2582 May 19 23:10	11°♏01'01	
	2581 Jul 07 11:37	0°♑		morning max el	2582 Jun 03 03:20	18°♏13'32	25°11'11
asc. node	2581 Jul 11 17:57	8°♑08'57			2582 Jun 12 22:00	0°♐	
morning set	2581 Jul 15 04:21	15°♑12'37		asc. node	2582 Jun 28 15:00	27°♐56'06	
				morning set	2582 Jun 29 16:07	0°♑07'53	
superior conj	2581 Jul 22 05:20	0°♒19'56 1°30'42			2582 Jun 29 14:38	0°♑	
minimum elong	2581 Jul 22 03:10	0°♒08'17 1°30'29					
	2581 Jul 22 01:38	0°♒		superior conj	2582 Jul 06 15:17	15°♑13'58	1°15'31
max. Earth dist.	2581 Jul 24 14:42	5°♒26'06 1.33511 AU		minimum elong	2582 Jul 06 12:54	15°♑00'55	1°15'10
evening rise	2581 Jul 29 18:29	16°♒04'08		max. Earth dist.	2582 Jul 07 21:03	17°♑56'19	1.32660 AU
	2581 Aug 06 02:48	0°♓		evening rise	2582 Jul 13 18:35	0°♒28'09	
desc. node	2581 Aug 18 15:59	20°♓16'35			2582 Jul 13 13:08	0°♒	
	2581 Aug 25 23:15	0°♑			2582 Jul 30 03:08	0°♓	
evening max el	2581 Sep 01 18:20	7°♑24'52 27°22'19		desc. node	2582 Aug 05 12:59	9°♓13'59	
retrograde	2581 Sep 15 07:02	14°♑42'54		evening max el	2582 Aug 15 03:15	20°♓16'16	27°21'56
evening set	2581 Sep 22 09:33	12°♑01'24		retrograde	2582 Aug 28 22:11	27°♓32'35	
min. Earth dist.	2581 Sep 26 02:51	8°♑38'14 0.64228 AU		evening set	2582 Sep 05 02:56	25°♓03'43	
inferior conj	2581 Sep 28 12:42	6°♑05'28 -2°56'19		min. Earth dist.	2582 Sep 08 17:07	22°♓09'25	0.62470 AU
minimum elong	2581 Sep 28 17:24	5°♑53'03 2°54'42		inferior conj	2582 Sep 11 14:55	19°♓24'53	-3°51'06
morning rise	2581 Oct 05 02:22	0°♑41'16		minimum elong	2582 Sep 11 20:26	19°♓11'51	3°49'38
direct	2581 Oct 07 15:55	0°♑07'55		morning rise	2582 Sep 18 15:28	14°♓19'19	
asc. node	2581 Oct 07 17:10	0°♑07'56		direct	2582 Sep 21 01:37	13°♓52'58	
morning max el	2581 Oct 14 04:15	3°♑33'52 17°55'54		asc. node	2582 Sep 24 14:14	14°♓50'20	
morning set	2581 Oct 31 06:46	29°♑38'16		morning max el	2582 Sep 27 20:10	17°♓20'08	17°51'54
	2581 Oct 31 11:53	0°♒			2582 Oct 06 20:36	0°♑	
				morning set	2582 Oct 13 21:39	12°♑23'00	

	2582 Oct 23 22:14	0°♄		asc. node	2583 Sep 11 11:18	0°♄55'46	
				morning max el	2583 Sep 11 08:45	0°♄49'35	18°06'57
superior conj	2582 Oct 25 02:17	1°♄59'28	0°49'30	morning set	2583 Sep 27 04:43	25°♄54'28	
minimum elong	2582 Oct 25 06:26	2°♄17'05	0°48'58		2583 Sep 29 09:12	0°♄	
max. Earth dist.	2582 Nov 01 03:28	13°♄41'16	1.43304 AU				
desc. node	2582 Nov 01 12:19	14°♄17'09		superior conj	2583 Oct 06 22:09	13°♄50'24	1°18'50
evening rise	2582 Nov 08 21:30	25°♄59'55		minimum elong	2583 Oct 07 02:19	14°♄09'01	1°18'23
	2582 Nov 11 11:35	0°♄		max. Earth dist.	2583 Oct 14 13:24	27°♄05'24	1.41560 AU
	2582 Dec 02 02:49	0°♄			2583 Oct 16 07:14	0°♄	
evening max el	2582 Dec 09 17:31	9°♄07'06	21°28'53	desc. node	2583 Oct 19 09:21	5°♄03'26	
retrograde	2582 Dec 18 14:36	14°♄23'50		evening rise	2583 Oct 19 21:17	5°♄51'38	
asc. node	2582 Dec 21 13:29	13°♄35'51			2583 Nov 04 17:30	0°♄	
evening set	2582 Dec 22 19:49	12°♄44'54		evening max el	2583 Nov 22 10:28	22°♄40'55	22°46'33
inferior conj	2582 Dec 28 04:15	6°♄29'03	2°06'32	retrograde	2583 Dec 02 09:50	28°♄36'09	
minimum elong	2582 Dec 28 01:52	6°♄37'20	2°05'43	evening set	2583 Dec 07 03:06	26°♄40'43	
min. Earth dist.	2582 Dec 28 09:47	6°♄09'55	0.67727 AU	asc. node	2583 Dec 08 10:32	25°♄26'57	
morning rise	2583 Jan 02 07:44	0°♄16'31		inferior conj	2583 Dec 12 11:52	20°♄18'45	1°21'05
	2583 Jan 02 15:30	30°♄		minimum elong	2583 Dec 12 10:07	20°♄24'48	1°20'24
direct	2583 Jan 07 09:54	28°♄04'30		min. Earth dist.	2583 Dec 12 06:22	20°♄37'45	0.67888 AU
	2583 Jan 12 18:24	0°♄		morning rise	2583 Dec 17 16:59	14°♄09'08	
morning max el	2583 Jan 17 16:04	4°♄10'25	23°14'03	direct	2583 Dec 22 04:28	12°♄19'53	
desc. node	2583 Jan 28 11:33	17°♄15'06		morning max el	2583 Dec 31 04:56	17°♄37'06	21°47'39
	2583 Feb 06 10:44	0°♄			2584 Jan 10 08:23	0°♄	
morning set	2583 Feb 21 13:20	23°♄50'21		desc. node	2584 Jan 15 08:36	7°♄01'17	
	2583 Feb 25 04:14	0°♄			2584 Jan 30 13:49	0°♄	
max. Earth dist.	2583 Feb 25 18:52	1°♄03'22	1.39422 AU	morning set	2584 Feb 01 12:57	3°♄07'13	
				max. Earth dist.	2584 Feb 07 17:33	13°♄12'45	1.41538 AU
superior conj	2583 Mar 05 10:14	14°♄45'55	-1°51'33				
minimum elong	2583 Mar 05 14:24	15°♄05'11	1°51'12	superior conj	2584 Feb 15 09:46	26°♄19'27	-2°04'15
	2583 Mar 13 10:51	0°♄		minimum elong	2584 Feb 15 11:39	26°♄27'44	2°04'12
evening rise	2583 Mar 14 21:24	2°♄46'25			2584 Feb 17 11:42	0°♄	
asc. node	2583 Mar 19 12:46	11°♄34'35		evening rise	2584 Feb 26 02:59	15°♄43'02	
evening max el	2583 Mar 31 03:09	28°♄55'03	18°35'51	asc. node	2584 Mar 05 09:50	0°♄34'39	
	2583 Apr 01 08:01	0°♄			2584 Mar 05 01:36	0°♄	
retrograde	2583 Apr 07 22:08	2°♄44'06		evening max el	2584 Mar 13 11:47	11°♄44'30	18°12'08
evening set	2583 Apr 10 05:29	2°♄25'12		retrograde	2584 Mar 20 09:34	15°♄12'54	
	2583 Apr 15 02:32	30°♄		evening set	2584 Mar 22 23:06	14°♄44'57	
inferior conj	2583 Apr 17 20:30	27°♄58'50	2°16'48	inferior conj	2584 Mar 29 20:41	9°♄57'34	3°11'15
minimum elong	2583 Apr 18 00:24	27°♄51'17	2°15'42	minimum elong	2584 Mar 29 23:45	9°♄50'40	3°10'43
min. Earth dist.	2583 Apr 21 06:01	25°♄22'55	0.57907 AU	min. Earth dist.	2584 Apr 02 05:22	6°♄57'46	0.60024 AU
morning rise	2583 Apr 25 16:11	22°♄38'36		morning rise	2584 Apr 05 22:09	4°♄13'22	
desc. node	2583 Apr 26 10:43	22°♄17'50		direct	2584 Apr 12 11:17	2°♄12'44	
direct	2583 May 01 11:01	21°♄14'10		desc. node	2584 Apr 12 07:46	2°♄12'47	
morning max el	2583 May 15 20:04	28°♄51'29	26°35'57	morning max el	2584 Apr 26 18:35	10°♄02'56	27°31'26
	2583 May 16 23:26	0°♄			2584 May 12 04:29	0°♄	
	2583 Jun 06 13:30	0°♄		morning set	2584 May 28 10:14	29°♄38'11	
morning set	2583 Jun 14 02:41	14°♄58'33			2584 May 28 14:26	0°♄	
asc. node	2583 Jun 15 12:04	17°♄55'38		asc. node	2584 Jun 01 09:06	8°♄02'06	
				max. Earth dist.	2584 Jun 03 20:04	13°♄23'50	1.32158 AU
superior conj	2583 Jun 21 02:57	0°♄11'16	0°56'13				
minimum elong	2583 Jun 21 00:49	29°♄59'33	0°55'50	superior conj	2584 Jun 04 14:30	15°♄05'07	0°33'28
	2583 Jun 21 00:54	0°♄		minimum elong	2584 Jun 04 13:04	14°♄57'12	0°33'10
max. Earth dist.	2583 Jun 21 08:05	0°♄39'31	1.32210 AU	evening rise	2584 Jun 11 10:48	29°♄59'11	
evening rise	2583 Jun 28 00:50	15°♄09'21			2584 Jun 11 10:57	0°♄	
	2583 Jul 05 12:38	0°♄			2584 Jun 27 21:40	0°♄	
desc. node	2583 Jul 23 10:00	27°♄16'05		evening max el	2584 Jul 09 03:50	13°♄51'41	25°43'23
	2583 Jul 25 20:27	0°♄		desc. node	2584 Jul 09 07:03	13°♄59'18	
evening max el	2583 Jul 28 07:06	2°♄27'50	26°48'30	retrograde	2584 Jul 23 03:50	20°♄59'55	
retrograde	2583 Aug 11 05:48	9°♄40'35		evening set	2584 Jul 29 04:42	19°♄33'48	
evening set	2583 Aug 18 02:57	7°♄37'54		min. Earth dist.	2584 Aug 02 16:05	16°♄55'15	0.58415 AU
min. Earth dist.	2583 Aug 21 21:09	5°♄00'04	0.60471 AU	inferior conj	2584 Aug 05 21:25	14°♄36'37	-5°00'33
inferior conj	2583 Aug 25 03:02	2°♄18'58	-4°35'48	minimum elong	2584 Aug 05 22:55	14°♄33'53	5°00'29
minimum elong	2583 Aug 25 07:49	2°♄09'01	4°35'00	morning rise	2584 Aug 13 19:25	10°♄15'10	
	2583 Aug 28 01:28	30°♄		direct	2584 Aug 16 07:30	9°♄55'09	
morning rise	2583 Sep 01 14:36	27°♄34'42		morning max el	2584 Aug 24 14:42	13°♄51'58	18°42'25
direct	2583 Sep 04 00:15	27°♄12'35		asc. node	2584 Aug 28 08:20	18°♄08'08	
	2583 Sep 10 11:02	0°♄			2584 Sep 04 17:15	0°♄	

morning set	2584 Sep 09 23:04	9°♎58'10		morning max el	2585 Aug 07 11:05	26°♎18'30	19°39'19
					2585 Aug 10 20:27	0°♏	
superior conj	2584 Sep 18 15:03	26°♎43'04	1°36'41	asc. node	2585 Aug 15 05:22	6°♏13'10	
minimum elong	2584 Sep 18 17:41	26°♎55'27	1°36'29	morning set	2585 Aug 25 01:11	24°♏24'35	
	2584 Sep 20 09:08	0°♏			2585 Aug 27 19:33	0°♎	
max. Earth dist.	2584 Sep 25 18:52	9°♏47'08	1.39537 AU				
evening rise	2584 Sep 29 19:49	16°♏45'52		superior conj	2585 Sep 01 23:34	10°♎22'22	1°44'34
desc. node	2584 Oct 05 06:23	25°♏44'09		minimum elong	2585 Sep 02 00:21	10°♎26'16	1°44'32
	2584 Oct 07 22:53	0°♎		max. Earth dist.	2585 Sep 07 23:10	21°♎52'23	1.37492 AU
	2584 Oct 29 07:26	0°♎		evening rise	2585 Sep 11 17:37	28°♎44'47	
evening max el	2584 Nov 04 00:02	6°♎18'04	24°06'29		2585 Sep 12 10:32	0°♏	
retrograde	2584 Nov 15 01:36	12°♎47'47		desc. node	2585 Sep 22 03:24	16°♏15'03	
evening set	2584 Nov 20 08:25	10°♎35'34			2585 Oct 01 07:14	0°♎	
asc. node	2584 Nov 24 07:34	6°♎09'41		evening max el	2585 Oct 17 12:06	19°♎57'52	25°21'51
min. Earth dist.	2584 Nov 25 02:41	5°♎05'56	0.67700 AU	retrograde	2585 Oct 29 13:02	26°♎54'07	
inferior conj	2584 Nov 25 18:50	4°♎11'25	0°30'08	evening set	2585 Nov 04 10:03	24°♎26'35	
minimum elong	2584 Nov 25 18:06	4°♎13'51	0°29'50	min. Earth dist.	2585 Nov 08 20:23	19°♎31'42	0.67171 AU
	2584 Nov 29 02:51	30°♎		inferior conj	2585 Nov 09 23:21	18°♎04'26	-0°25'10
morning rise	2584 Dec 01 03:48	28°♎06'58		minimum elong	2585 Nov 09 24:00	18°♎02'21	0°24'53
direct	2584 Dec 05 01:40	26°♎40'00		asc. node	2585 Nov 11 04:36	16°♎31'04	
	2584 Dec 11 17:26	0°♎		morning rise	2585 Nov 15 14:12	12°♎07'32	
morning max el	2584 Dec 13 00:49	1°♎14'43	20°30'28	direct	2585 Nov 19 00:06	11°♎00'22	
desc. node	2585 Jan 01 05:39	27°♎10'03		morning max el	2585 Nov 26 04:38	15°♎03'09	19°26'36
	2585 Jan 03 02:49	0°♏			2585 Dec 07 13:56	0°♎	
morning set	2585 Jan 10 13:20	11°♏23'08		greatest brilliancy	2585 Dec 09 14:20	3°♎00'44	-0.7m
max. Earth dist.	2585 Jan 20 00:18	26°♏19'46	1.43338 AU	desc. node	2585 Dec 19 02:41	17°♎34'43	
	2585 Jan 22 06:39	0°♏		morning set	2585 Dec 20 11:50	19°♎42'59	
					2585 Dec 27 02:34	0°♏	
superior conj	2585 Jan 26 08:54	6°♏44'42	-2°03'14	max. Earth dist.	2586 Jan 02 13:59	10°♏10'22	1.44590 AU
minimum elong	2585 Jan 26 05:53	6°♏32'06	2°03'09				
evening rise	2585 Feb 07 16:34	27°♏53'31		superior conj	2586 Jan 06 05:59	16°♏00'04	-1°43'57
	2585 Feb 08 21:22	0°♎		minimum elong	2586 Jan 05 21:50	15°♏27'31	1°43'17
asc. node	2585 Feb 20 06:52	19°♎01'58			2586 Jan 14 21:16	0°♏	
evening max el	2585 Feb 24 23:49	24°♎53'30	18°07'56	evening rise	2586 Jan 20 09:50	9°♏09'33	
retrograde	2585 Mar 03 11:46	28°♎16'53			2586 Feb 02 03:52	0°♎	
evening set	2585 Mar 06 06:43	27°♎38'34		asc. node	2586 Feb 07 03:54	6°♎45'58	
inferior conj	2585 Mar 12 14:44	22°♎30'31	3°36'57	evening max el	2586 Feb 08 12:17	8°♎13'54	18°22'36
minimum elong	2585 Mar 12 15:55	22°♎27'27	3°36'53	retrograde	2586 Feb 14 23:57	11°♎45'18	
min. Earth dist.	2585 Mar 15 12:42	19°♎31'40	0.62152 AU	evening set	2586 Feb 18 00:16	10°♎55'49	
morning rise	2585 Mar 18 23:47	16°♎31'28		inferior conj	2586 Feb 23 22:26	5°♎28'47	3°40'45
direct	2585 Mar 25 21:21	14°♎00'54		minimum elong	2586 Feb 23 21:51	5°♎30'28	3°40'44
desc. node	2585 Mar 30 04:48	14°♎53'29		min. Earth dist.	2586 Feb 26 05:34	2°♎51'03	0.64056 AU
morning max el	2585 Apr 08 23:19	21°♎56'58	27°50'24		2586 Mar 01 00:44	30°♎	
	2585 Apr 16 00:46	0°♎		morning rise	2586 Mar 01 18:43	29°♏21'24	
	2585 May 05 06:54	0°♏		direct	2586 Mar 08 15:38	26°♏33'25	
morning set	2585 May 12 12:49	14°♏00'33		desc. node	2586 Mar 17 01:51	29°♏53'10	
max. Earth dist.	2585 May 18 05:12	25°♏56'38	1.32502 AU		2586 Mar 17 05:36	0°♎	
asc. node	2585 May 19 06:08	28°♏11'26		morning max el	2586 Mar 22 08:06	4°♎27'58	27°32'36
					2586 Apr 10 14:42	0°♎	
superior conj	2585 May 20 00:16	29°♏49'54	0°07'58	morning set	2586 Apr 26 07:52	27°♎56'44	
minimum elong	2585 May 19 23:54	29°♏47'51	0°07'53		2586 Apr 27 08:41	0°♏	
behind sun begin	2585 May 19 19:23	29°♏23'20		max. Earth dist.	2586 May 01 07:15	8°♏03'30	1.33265 AU
behind sun end	2585 May 20 04:24	0°♎12'23					
	2585 May 20 02:07	0°♎		superior conj	2586 May 04 06:22	14°♏18'56	-0°19'31
evening rise	2585 May 26 22:30	14°♎50'59		minimum elong	2586 May 04 07:20	14°♏24'08	0°19'19
	2585 Jun 03 12:17	0°♏		asc. node	2586 May 06 03:10	18°♏18'50	
evening max el	2585 Jun 20 18:23	24°♏34'37	24°15'15	evening rise	2586 May 11 10:02	29°♏37'27	
desc. node	2585 Jun 26 04:02	28°♏52'46			2586 May 11 14:19	0°♎	
	2585 Jun 28 04:49	0°♏			2586 May 28 20:33	0°♏	
retrograde	2585 Jul 04 14:26	1°♏33'16		evening max el	2586 Jun 02 08:33	5°♏01'39	22°38'50
evening set	2585 Jul 09 06:49	0°♏44'27		desc. node	2586 Jun 13 01:03	11°♏20'36	
	2585 Jul 11 03:38	30°♎		retrograde	2586 Jun 15 12:56	11°♏34'52	
min. Earth dist.	2585 Jul 15 05:07	27°♏47'46	0.56582 AU	evening set	2586 Jun 18 17:47	11°♏12'18	
inferior conj	2585 Jul 17 19:37	26°♏09'58	-4°51'23	min. Earth dist.	2586 Jun 26 16:26	7°♏43'48	0.55304 AU
minimum elong	2585 Jul 17 15:40	26°♏16'12	4°50'59	inferior conj	2586 Jun 27 23:18	6°♏59'45	-3°55'28
morning rise	2585 Jul 26 03:10	22°♏08'52		minimum elong	2586 Jun 27 15:21	7°♏11'07	3°53'32
direct	2585 Jul 28 19:38	21°♏49'41		morning rise	2586 Jul 06 15:10	3°♏08'18	

direct	2586 Jul 09 13:34	2°♄48'29		direct	2587 Jun 19 23:14	12°♂57'50	
morning max el	2586 Jul 20 20:07	8°♄02'25	20°57'06	morning max el	2587 Jul 02 18:22	19°♂03'37	22°31'46
asc. node	2586 Aug 02 02:24	24°♄58'37			2587 Jul 11 17:35	0°♄	
	2586 Aug 04 19:14	0°♄		asc. node	2587 Jul 19 23:27	14°♄14'20	
morning set	2586 Aug 09 08:28	9°♄06'43		morning set	2587 Jul 24 18:52	23°♄58'20	
					2587 Jul 27 15:10	0°♄	
superior conj	2586 Aug 16 19:10	24°♄35'14	1°44'15	superior conj	2587 Jul 31 22:22	9°♄10'41	1°37'16
minimum elong	2586 Aug 16 18:25	24°♄31'21	1°44'14	minimum elong	2587 Jul 31 20:34	9°♄01'06	1°37'08
	2586 Aug 19 11:02	0°♄		max. Earth dist.	2587 Aug 04 01:04	15°♄42'25	1.34177 AU
max. Earth dist.	2586 Aug 21 07:46	3°♄42'41	1.35656 AU	evening rise	2587 Aug 08 19:27	25°♄18'56	
evening rise	2586 Aug 25 11:01	11°♄39'58			2587 Aug 11 05:51	0°♄	
	2586 Sep 04 22:01	0°♄		desc. node	2587 Aug 26 21:23	26°♄24'24	
desc. node	2586 Sep 09 00:23	6°♄30'53			2587 Aug 29 08:41	0°♄	
	2586 Sep 26 12:26	0°♄		evening max el	2587 Sep 12 12:28	17°♄07'55	27°08'57
evening max el	2586 Sep 30 00:10	3°♄37'07	26°25'12	retrograde	2587 Sep 25 20:35	24°♄26'01	
retrograde	2586 Oct 12 19:35	10°♄49'31		evening set	2587 Oct 02 18:19	21°♄42'59	
evening set	2586 Oct 19 06:08	8°♄10'42		min. Earth dist.	2587 Oct 06 14:52	17°♄59'53	0.65078 AU
min. Earth dist.	2586 Oct 23 09:13	3°♄51'43	0.66298 AU	inferior conj	2587 Oct 08 17:26	15°♄38'27	-2°22'44
inferior conj	2586 Oct 24 23:37	1°♄55'03	-1°23'24	minimum elong	2587 Oct 08 21:18	15°♄27'37	2°21'16
minimum elong	2586 Oct 25 01:51	1°♄48'15	1°22'28	morning rise	2587 Oct 15 01:10	10°♄04'51	
	2586 Oct 26 14:19	30°♄		asc. node	2587 Oct 15 22:40	9°♄43'28	
asc. node	2586 Oct 29 01:37	27°♄28'27		direct	2587 Oct 17 17:47	9°♄26'07	
morning rise	2586 Oct 30 22:07	26°♄08'18		morning max el	2587 Oct 24 05:56	12°♄55'36	18°06'20
direct	2586 Nov 02 22:10	25°♄17'19			2587 Nov 05 05:48	0°♄	
morning max el	2586 Nov 09 15:08	28°♄58'51	18°38'12	morning set	2587 Nov 11 08:41	10°♄06'59	
	2586 Nov 10 14:23	0°♄		desc. node	2587 Nov 22 20:43	28°♄53'33	
morning set	2586 Nov 30 07:36	29°♄11'19			2587 Nov 23 13:18	0°♄	
	2586 Nov 30 19:51	0°♄					
desc. node	2586 Dec 05 23:43	8°♄10'42		superior conj	2587 Nov 25 14:58	3°♄18'00	-0°18'35
				minimum elong	2587 Nov 25 12:37	3°♄08'41	0°18'16
superior conj	2586 Dec 16 09:29	24°♄33'04	-1°06'21	max. Earth dist.	2587 Nov 29 02:34	8°♄48'49	1.44982 AU
minimum elong	2586 Dec 16 01:29	24°♄01'42	1°05'24	evening rise	2587 Dec 12 00:21	28°♄56'25	
max. Earth dist.	2586 Dec 16 07:38	24°♄25'48	1.45155 AU		2587 Dec 12 16:47	0°♄	
	2586 Dec 19 20:44	0°♄		greatest brilliancy	2587 Dec 25 05:18	19°♄10'18	-0.7m
evening rise	2587 Jan 01 03:53	19°♄28'07			2588 Jan 01 20:10	0°♄	
	2587 Jan 07 18:10	0°♄		evening max el	2588 Jan 06 05:19	5°♄11'02	19°44'24
greatest brilliancy	2587 Jan 09 09:26	2°♄35'53	-0.8m	asc. node	2588 Jan 11 21:57	9°♄13'12	
evening max el	2587 Jan 22 22:46	21°♄40'58	18°55'15	retrograde	2588 Jan 13 15:31	9°♄29'37	
asc. node	2587 Jan 25 00:55	23°♄34'35		evening set	2588 Jan 17 05:30	8°♄14'31	
retrograde	2587 Jan 29 18:15	25°♄31'25		inferior conj	2588 Jan 22 16:41	2°♄15'56	3°03'47
evening set	2587 Feb 02 00:42	24°♄29'47		minimum elong	2588 Jan 22 14:13	2°♄24'07	3°03'12
inferior conj	2587 Feb 07 16:08	18°♄45'47	3°28'22	min. Earth dist.	2588 Jan 23 17:56	0°♄52'26	0.66744 AU
minimum elong	2587 Feb 07 14:18	18°♄51'30	3°28'06		2588 Jan 24 10:03	30°♄	
min. Earth dist.	2587 Feb 09 07:49	16°♄42'06	0.65605 AU	morning rise	2588 Jan 27 22:41	26°♄02'46	
morning rise	2587 Feb 13 03:31	12°♄34'15		direct	2588 Feb 03 00:01	23°♄20'44	
direct	2587 Feb 19 16:54	9°♄43'00			2588 Feb 14 13:15	0°♄	
desc. node	2587 Mar 03 22:54	16°♄37'11		morning max el	2588 Feb 15 02:59	0°♄34'14	25°30'43
morning max el	2587 Mar 04 17:59	17°♄24'22	26°43'09	desc. node	2588 Feb 18 19:57	4°♄35'47	
	2587 Mar 15 06:57	0°♄			2588 Mar 08 06:01	0°♄	
	2587 Apr 03 12:21	0°♄		morning set	2588 Mar 22 08:58	23°♄47'50	
morning set	2587 Apr 09 16:04	11°♄16'48			2588 Mar 25 17:24	0°♄	
max. Earth dist.	2587 Apr 13 22:38	19°♄36'27	1.34482 AU	max. Earth dist.	2588 Mar 26 02:26	0°♄42'35	1.36152 AU
superior conj	2587 Apr 18 06:40	28°♄25'59	-0°47'50	superior conj	2588 Mar 31 22:31	12°♄03'50	-1°15'24
minimum elong	2587 Apr 18 09:07	28°♄38'43	0°47'21	minimum elong	2588 Apr 01 02:18	12°♄22'42	1°14'47
	2587 Apr 19 00:46	0°♄		asc. node	2588 Apr 08 21:15	28°♄12'03	
asc. node	2587 Apr 23 00:12	8°♄20'23		evening rise	2588 Apr 09 00:55	28°♄30'39	
evening rise	2587 Apr 25 19:32	14°♄12'42			2588 Apr 09 18:35	0°♄	
	2587 May 03 21:53	0°♄		evening max el	2588 Apr 26 15:39	27°♄06'48	19°53'57
evening max el	2587 May 15 06:15	15°♄45'42	21°08'40		2588 Apr 30 06:23	0°♄	
retrograde	2587 May 27 02:35	21°♄32'59		retrograde	2588 May 06 18:19	2°♄00'30	
evening set	2587 May 29 08:16	21°♄21'21		evening set	2588 May 08 18:21	1°♄49'51	
desc. node	2587 May 30 22:05	20°♄59'58			2588 May 13 20:36	30°♄	
inferior conj	2587 Jun 07 17:14	17°♄22'57	-2°14'40	desc. node	2588 May 16 19:07	28°♄20'29	
minimum elong	2587 Jun 07 11:02	17°♄31'40	2°12'32	inferior conj	2588 May 17 15:40	27°♄49'19	-0°15'01
min. Earth dist.	2587 Jun 08 04:32	17°♄07'00	0.54882 AU	minimum elong	2588 May 17 14:59	27°♄50'22	0°14'46
morning rise	2587 Jun 16 13:56	13°♄22'40					

transit middle	2588 May 17 14:59	27°♄50'22	0°14'46	inferior conj	2589 Apr 28 06:41	8°♄44'43	1°30'16
transit begin	2588 May 17 13:29	27°♄52'39		minimum elong	2589 Apr 28 09:55	8°♄39'01	1°29'12
transit end	2588 May 17 16:29	27°♄48'05		min. Earth dist.	2589 May 01 09:39	6°♄33'38	0.56830 AU
min. Earth dist.	2588 May 19 18:00	26°♄32'45	0.55431 AU	desc. node	2589 May 03 16:11	5°♄07'36	
morning rise	2588 May 26 09:29	23°♄22'28		morning rise	2589 May 06 12:16	3°♄43'06	
direct	2588 May 30 14:04	22°♄43'49		direct	2589 May 11 17:18	2°♄38'41	
morning max el	2588 Jun 13 09:45	29°♄35'18	24°14'10	morning max el	2589 May 26 00:24	10°♄02'28	25°50'04
	2588 Jun 13 20:02	0°♄			2589 Jun 10 03:57	0°♄	
	2588 Jul 03 22:08	0°♄		morning set	2589 Jun 22 18:09	23°♄48'33	
asc. node	2588 Jul 05 20:30	3°♄52'24		asc. node	2589 Jun 22 17:34	23°♄45'25	
morning set	2588 Jul 08 06:40	8°♄54'28			2589 Jun 25 15:27	0°♄	
superior conj	2588 Jul 15 06:32	24°♄00'33	1°24'49	superior conj	2589 Jun 29 17:26	8°♄56'32	1°07'49
minimum elong	2588 Jul 15 04:13	23°♄47'58	1°24'32	minimum elong	2589 Jun 29 15:06	8°♄43'43	1°07'25
max. Earth dist.	2588 Jul 17 03:35	28°♄03'37	1.33104 AU	max. Earth dist.	2589 Jun 30 12:35	10°♄41'34	1.32429 AU
	2588 Jul 18 01:21	0°♄		evening rise	2589 Jul 06 17:58	24°♄02'38	
evening rise	2588 Jul 22 14:54	9°♄30'17			2589 Jul 09 16:13	0°♄	
	2588 Aug 02 14:34	0°♄			2589 Jul 27 08:50	0°♄	
desc. node	2588 Aug 12 18:25	15°♄46'11		desc. node	2589 Jul 30 15:27	4°♄22'15	
	2588 Aug 24 15:48	0°♄		evening max el	2589 Aug 07 06:43	12°♄54'16	27°11'42
evening max el	2588 Aug 24 23:34	0°♄18'33	27°26'07	retrograde	2589 Aug 21 03:01	20°♄08'17	
retrograde	2588 Sep 07 15:17	7°♄35'30		evening set	2589 Aug 28 06:10	17°♄48'59	
evening set	2588 Sep 14 19:38	4°♄58'09		min. Earth dist.	2589 Aug 31 20:57	15°♄03'40	0.61651 AU
min. Earth dist.	2588 Sep 18 11:15	1°♄48'01	0.63520 AU	inferior conj	2589 Sep 03 22:53	12°♄18'41	-4°11'46
	2588 Sep 20 06:15	30°♄		minimum elong	2589 Sep 04 04:20	12°♄06'27	4°10'31
inferior conj	2588 Sep 21 02:14	29°♄09'07	-3°20'21	morning rise	2589 Sep 11 04:09	7°♄21'49	
minimum elong	2588 Sep 21 07:24	28°♄56'03	3°18'43	direct	2589 Sep 13 13:54	6°♄57'26	
morning rise	2588 Sep 27 20:25	23°♄52'04		asc. node	2589 Sep 18 16:47	8°♄51'56	
direct	2588 Sep 30 08:14	23°♄21'59		morning max el	2589 Sep 20 13:07	10°♄27'16	17°55'54
asc. node	2588 Oct 01 19:44	23°♄32'48			2589 Oct 03 10:44	0°♄	
morning max el	2588 Oct 06 22:15	26°♄47'31	17°51'53	morning set	2589 Oct 06 10:04	5°♄24'05	
	2588 Oct 09 17:14	0°♄					
morning set	2588 Oct 23 11:38	22°♄17'40		superior conj	2589 Oct 16 22:24	24°♄13'29	1°03'25
	2588 Oct 27 22:33	0°♄		minimum elong	2589 Oct 17 02:51	24°♄32'47	1°02'52
superior conj	2588 Nov 04 17:06	13°♄05'35	0°27'17		2589 Oct 20 07:15	0°♄	
minimum elong	2588 Nov 04 19:53	13°♄17'06	0°26'54	max. Earth dist.	2589 Oct 24 09:31	6°♄50'00	1.42614 AU
desc. node	2588 Nov 08 17:43	19°♄40'06		desc. node	2589 Oct 26 14:45	10°♄27'16	
max. Earth dist.	2588 Nov 10 20:08	23°♄02'46	1.44101 AU	evening rise	2589 Oct 30 23:24	17°♄25'16	
	2588 Nov 15 05:26	0°♄			2589 Nov 08 03:30	0°♄	
evening rise	2588 Nov 20 09:22	8°♄01'50		evening max el	2589 Nov 30 00:19	0°♄	
	2588 Dec 05 00:08	0°♄		retrograde	2589 Dec 02 02:12	2°♄13'46	22°01'15
evening max el	2588 Dec 19 06:34	18°♄41'54	20°47'35	evening set	2589 Dec 11 10:06	7°♄46'56	
retrograde	2588 Dec 27 13:25	23°♄35'49		asc. node	2589 Dec 15 20:21	6°♄00'48	
asc. node	2588 Dec 28 19:01	23°♄27'22			2589 Dec 15 16:03	6°♄09'19	
evening set	2588 Dec 31 12:39	22°♄05'47			2589 Dec 20 23:29	30°♄	
inferior conj	2589 Jan 05 21:35	15°♄55'20	2°29'41	inferior conj	2589 Dec 21 04:44	29°♄41'47	1°47'59
minimum elong	2589 Jan 05 19:01	16°♄04'07	2°28'54	minimum elong	2589 Dec 21 02:33	29°♄49'19	1°47'12
min. Earth dist.	2589 Jan 06 09:51	15°♄13'17	0.67480 AU	min. Earth dist.	2589 Dec 21 05:23	29°♄39'30	0.67836 AU
morning rise	2589 Jan 11 01:14	9°♄42'19		morning rise	2589 Dec 26 08:38	23°♄30'28	
direct	2589 Jan 16 12:06	7°♄18'01		direct	2589 Dec 31 04:26	21°♄28'17	
morning max el	2589 Jan 27 11:21	13°♄50'26	24°05'14	morning max el	2590 Jan 09 21:42	27°♄12'58	22°36'42
desc. node	2589 Feb 04 16:59	23°♄27'06			2590 Jan 12 11:57	0°♄	
	2589 Feb 09 14:08	0°♄		desc. node	2590 Jan 22 14:00	12°♄56'19	
	2589 Mar 01 03:08	0°♄			2590 Feb 03 05:27	0°♄	
morning set	2589 Mar 04 04:40	5°♄12'58		morning set	2590 Feb 12 21:15	15°♄18'07	
max. Earth dist.	2589 Mar 07 22:41	11°♄48'35	1.38179 AU	max. Earth dist.	2590 Feb 17 18:50	23°♄29'18	1.40339 AU
					2590 Feb 21 13:14	0°♄	
superior conj	2589 Mar 15 02:20	25°♄02'03	-1°39'59	superior conj	2590 Feb 25 13:39	7°♄09'47	-1°58'16
minimum elong	2589 Mar 15 06:45	25°♄23'10	1°39'29	minimum elong	2590 Feb 25 17:11	7°♄25'44	1°58'04
	2589 Mar 17 16:15	0°♄		evening rise	2590 Mar 07 12:35	25°♄43'09	
evening rise	2589 Mar 23 23:39	12°♄23'21			2590 Mar 09 19:06	0°♄	
asc. node	2589 Mar 26 18:19	17°♄48'17		asc. node	2590 Mar 13 15:23	7°♄03'37	
	2589 Apr 02 13:21	0°♄		evening max el	2590 Mar 23 17:18	21°♄40'19	18°23'18
evening max el	2589 Apr 09 12:11	9°♄06'44	18°58'30	retrograde	2590 Mar 31 01:59	25°♄19'02	
retrograde	2589 Apr 18 00:36	13°♄15'15		evening set	2590 Apr 02 11:56	24°♄56'35	
evening set	2589 Apr 20 04:28	13°♄00'20		inferior conj	2590 Apr 09 19:05	20°♄21'05	2°43'47




































































































































minimum elong	2590 Apr 09 22:51	20° Υ 13'16	2°42'53	minimum elong	2591 Mar 23 05:37	2° Υ 29'19	3°24'56
min. Earth dist.	2590 Apr 13 05:40	17° Υ 32'03	0.58781 AU	min. Earth dist.	2591 Mar 25 20:14	30° \Re	
morning rise	2590 Apr 17 06:58	14° Υ 49'10		morning rise	2591 Mar 26 08:22	29° \Re 32'12	0.60937 AU
desc. node	2590 Apr 20 13:13	13° Υ 31'32		morning rise	2591 Mar 29 21:22	26° \Re 43'02	
direct	2590 Apr 23 10:23	13° Υ 09'29		direct	2591 Apr 05 15:15	24° \Re 28'09	
morning max el	2590 May 07 19:37	20° Υ 53'25	27°03'45	desc. node	2591 Apr 07 10:14	24° \Re 37'10	
	2590 May 15 16:50	0° \S			2591 Apr 17 07:27	0° Υ	
	2590 Jun 02 22:11	0° Π		morning max el	2591 Apr 19 21:01	2° Υ 22'45	27°44'09
morning set	2590 Jun 07 03:41	8° Π 35'19			2591 May 10 01:49	0° \S	
asc. node	2590 Jun 09 14:37	13° Π 48'22		morning set	2591 May 22 09:24	23° \S 08'27	
					2591 May 25 15:45	0° Π	
superior conj	2590 Jun 14 05:15	23° Π 52'48	0°46'58	asc. node	2591 May 27 11:41	3° Π 56'34	
minimum elong	2590 Jun 14 03:22	23° Π 42'25	0°46'35	max. Earth dist.	2591 May 28 11:40	6° Π 07'02	1.32247 AU
max. Earth dist.	2590 Jun 14 00:34	23° Π 26'55	1.32143 AU				
	2590 Jun 17 00:02	0° \S		superior conj	2591 May 29 16:16	8° Π 43'29	0°22'57
evening rise	2590 Jun 21 02:03	8° \S 47'56		minimum elong	2591 May 29 15:15	8° Π 37'50	0°22'44
	2590 Jul 02 01:54	0° Ω		evening rise	2591 Jun 05 12:57	23° Π 39'04	
desc. node	2590 Jul 17 12:29	21° Ω 53'49			2591 Jun 08 14:11	0° \S	
evening max el	2590 Jul 20 07:25	24° Ω 44'35	26°24'08		2591 Jun 26 17:59	0° Ω	
	2590 Jul 27 07:10	0° \P		evening max el	2591 Jul 02 01:02	5° Ω 49'12	25°07'59
retrograde	2590 Aug 03 06:53	1° \P 56'02		desc. node	2591 Jul 04 09:30	7° Ω 54'52	
evening set	2590 Aug 09 21:13	0° \P 07'38		retrograde	2591 Jul 16 00:47	12° Ω 55'21	
	2590 Aug 10 02:51	30° \Re		evening set	2591 Jul 21 12:49	11° Ω 45'45	
min. Earth dist.	2590 Aug 13 20:32	27° Ω 32'03	0.59594 AU	min. Earth dist.	2591 Jul 26 12:46	9° Ω 01'11	0.57584 AU
inferior conj	2590 Aug 17 03:48	24° Ω 57'48	-4°49'29	inferior conj	2591 Jul 29 13:49	6° Ω 57'42	-5°01'44
minimum elong	2590 Aug 17 07:33	24° Ω 50'29	4°49'02	minimum elong	2591 Jul 29 13:09	6° Ω 58'50	5°01'44
morning rise	2590 Aug 24 19:59	20° Ω 23'37		morning rise	2591 Aug 06 16:01	2° Ω 45'39	
direct	2590 Aug 27 06:21	20° Ω 02'37		direct	2591 Aug 09 05:31	2° Ω 26'18	
morning max el	2590 Sep 03 23:19	23° Ω 46'22	18°19'30	morning max el	2591 Aug 18 01:38	6° Ω 35'27	19°03'57
asc. node	2590 Sep 05 13:50	25° Ω 27'25		asc. node	2591 Aug 23 10:52	13° Ω 04'09	
	2590 Sep 09 01:01	0° \P			2591 Sep 02 02:46	0° \P	
morning set	2590 Sep 19 22:23	19° \P 10'08		morning set	2591 Sep 03 20:26	3° \P 24'44	
	2590 Sep 25 15:16	0° $\underline{\Omega}$					
superior conj	2590 Sep 29 03:55	6° $\underline{\Omega}$ 32'41	1°27'44	superior conj	2591 Sep 12 04:08	19° \P 47'27	1°41'07
minimum elong	2590 Sep 29 07:32	6° $\underline{\Omega}$ 49'12	1°27'24	minimum elong	2591 Sep 12 05:59	19° \P 56'18	1°41'01
max. Earth dist.	2590 Oct 06 17:10	19° $\underline{\Omega}$ 55'32	1.40714 AU	max. Earth dist.	2591 Sep 17 14:36	0° $\underline{\Omega}$	
evening rise	2590 Oct 11 08:15	27° $\underline{\Omega}$ 41'28		evening rise	2591 Sep 18 21:06	2° $\underline{\Omega}$ 18'26	1.38654 AU
	2590 Oct 12 18:09	0° \P		desc. node	2591 Sep 22 17:03	9° $\underline{\Omega}$ 43'39	
desc. node	2590 Oct 13 11:46	1° \P 11'21			2591 Sep 30 08:48	21° $\underline{\Omega}$ 48'44	
	2590 Nov 01 18:46	0° \Re			2591 Oct 05 15:05	0° \P	
evening max el	2590 Nov 14 17:15	15° \Re 47'46	23°20'38	evening max el	2591 Oct 28 05:55	29° \P 26'19	24°39'30
retrograde	2590 Nov 25 04:06	21° \Re 59'08			2591 Oct 28 19:45	0° \Re	
evening set	2590 Nov 30 02:58	19° \Re 56'21		retrograde	2591 Nov 08 18:13	6° \Re 09'01	
asc. node	2590 Dec 02 13:05	17° \Re 26'46		evening set	2591 Nov 14 06:55	3° \Re 50'11	
min. Earth dist.	2590 Dec 05 02:08	14° \Re 07'22	0.67843 AU		2591 Nov 17 19:36	30° \Re	
inferior conj	2590 Dec 05 12:15	13° \Re 32'40	1°00'03	min. Earth dist.	2591 Nov 18 21:46	28° \P 34'51	0.67516 AU
minimum elong	2590 Dec 05 10:53	13° \Re 37'20	0°59'31	asc. node	2591 Nov 19 10:05	27° \P 53'54	
morning rise	2590 Dec 10 18:45	7° \Re 24'56		inferior conj	2591 Nov 19 18:25	27° \P 26'09	0°07'09
direct	2590 Dec 15 00:09	5° \Re 45'34		minimum elong	2591 Nov 19 18:14	27° \P 26'45	0°07'04
morning max el	2590 Dec 23 13:22	10° \Re 44'06	21°13'25	transit middle	2591 Nov 19 18:14	27° \P 26'45	0°07'04
	2591 Jan 07 11:37	0° \S		transit begin	2591 Nov 19 15:45	27° \P 35'00	
desc. node	2591 Jan 09 11:01	2° \S 52'27		transit end	2591 Nov 19 20:42	27° \P 18'31	
morning set	2591 Jan 23 09:16	24° \S 03'10		morning rise	2591 Nov 25 05:38	21° \P 24'19	
	2591 Jan 27 03:07	0° \approx		direct	2591 Nov 28 22:07	20° \P 06'09	
max. Earth dist.	2591 Jan 30 20:25	6° \approx 01'55	1.42351 AU	morning max el	2591 Dec 06 12:35	24° \P 26'17	20°01'23
					2591 Dec 11 07:38	0° \Re	
superior conj	2591 Feb 07 03:12	18° \approx 14'13	-2°05'49	desc. node	2591 Dec 27 08:03	23° \Re 08'28	
minimum elong	2591 Feb 07 03:18	18° \approx 14'35	2°05'49		2591 Dec 31 19:38	0° \S	
	2591 Feb 13 20:31	0° \Re		morning set	2592 Jan 02 05:25	2° \S 10'14	
evening rise	2591 Feb 18 11:51	8° \Re 20'28		max. Earth dist.	2592 Jan 13 05:43	19° \S 26'43	1.43950 AU
asc. node	2591 Feb 28 12:25	25° \Re 50'25					
	2591 Mar 03 07:05	0° Υ		superior conj	2592 Jan 18 15:00	28° \S 08'20	-1°57'28
evening max el	2591 Mar 07 03:40	4° Υ 38'16	18°08'02	minimum elong	2592 Jan 18 09:31	27° \S 45'58	1°57'10
retrograde	2591 Mar 13 20:11	8° Υ 02'59			2592 Jan 19 18:17	0° \approx	
evening set	2591 Mar 16 11:57	7° Υ 30'55		evening rise	2592 Jan 31 17:11	20° \approx 07'35	
inferior conj	2591 Mar 23 03:18	2° Υ 34'50	3°25'13		2592 Feb 06 11:15	0° \Re	
				asc. node	2592 Feb 15 09:25	14° \Re 00'12	

evening max el	2592 Feb 18 16:13	17° K 52'32	18°12'00	asc. node	2593 Feb 01 06:25	1° K 22'21	
retrograde	2592 Feb 25 02:55	21° K 17'34		retrograde	2593 Feb 07 18:05	4° K 54'37	
evening set	2592 Feb 28 00:09	20° K 34'37		evening set	2593 Feb 10 21:00	3° K 59'54	
inferior conj	2592 Mar 05 03:35	15° K 18'34	3°40'51		2593 Feb 15 07:38	30° R \approx	
minimum elong	2592 Mar 05 03:58	15° K 17'31	3°40'50	inferior conj	2593 Feb 16 15:57	28° \approx 25'23	3°37'12
min. Earth dist.	2592 Mar 07 19:38	12° K 26'24	0.63002 AU	minimum elong	2593 Feb 16 14:45	28° \approx 28'56	3°37'05
morning rise	2592 Mar 11 06:44	9° K 15'29		min. Earth dist.	2593 Feb 18 16:25	26° \approx 01'13	0.64767 AU
direct	2592 Mar 18 05:14	6° K 35'24		morning rise	2593 Feb 22 08:01	22° \approx 16'08	
desc. node	2592 Mar 24 07:16	8° K 20'22		direct	2593 Mar 01 02:31	19° \approx 25'12	
morning max el	2592 Apr 01 03:30	14° K 32'04	27°47'06	desc. node	2593 Mar 11 04:18	24° \approx 08'35	
	2592 Apr 13 16:33	0° Y		morning max el	2593 Mar 14 12:55	27° \approx 14'51	27°15'01
	2592 May 01 15:20	0° B			2593 Mar 17 03:17	0° K	
morning set	2592 May 05 09:05	7° B 20'08			2593 Apr 07 08:28	0° Y	
max. Earth dist.	2592 May 10 18:00	18° B 28'38	1.32764 AU	morning set	2593 Apr 18 23:57	21° Y 02'01	
					2593 Apr 23 11:41	0° B	
superior conj	2592 May 13 00:42	23° B 22'05	-0°03'32	max. Earth dist.	2593 Apr 23 15:56	0° B 21'45	1.33726 AU
minimum elong	2592 May 13 00:52	23° B 22'59	0°03'29				
behind sun begin	2592 May 12 19:44	22° B 55'16		superior conj	2593 Apr 27 04:38	7° B 42'38	-0°31'30
behind sun end	2592 May 13 06:00	23° B 50'44		minimum elong	2593 Apr 27 06:14	7° B 51'05	0°31'09
asc. node	2592 May 13 08:43	24° B 05'24		asc. node	2593 Apr 30 05:45	14° B 10'47	
	2592 May 16 02:07	0° II		evening rise	2593 May 04 11:42	23° B 11'36	
evening rise	2592 May 20 00:46	8° II 28'58			2593 May 07 19:10	0° II	
	2592 May 31 06:05	0° B		evening max el	2593 May 25 07:19	26° II 52'48	21°59'05
evening max el	2592 Jun 12 14:42	16° B 22'11	23°34'32		2593 May 29 00:50	0° B	
desc. node	2592 Jun 20 06:31	21° B 50'51		retrograde	2593 Jun 06 23:30	3° B 08'03	
retrograde	2592 Jun 26 06:07	23° B 12'04		desc. node	2593 Jun 07 03:31	3° B 07'59	
evening set	2592 Jun 30 06:41	22° B 36'34		evening set	2593 Jun 09 16:37	2° B 51'38	
min. Earth dist.	2592 Jul 07 00:55	19° B 27'51	0.55947 AU		2593 Jun 16 20:52	30° R II	
inferior conj	2592 Jul 09 03:40	18° B 12'02	-4°33'53	min. Earth dist.	2593 Jun 18 12:03	29° II 05'57	0.55011 AU
minimum elong	2592 Jul 08 21:30	18° B 21'17	4°32'53	inferior conj	2593 Jun 19 01:38	28° II 46'57	-3°17'14
morning rise	2592 Jul 17 14:52	14° B 16'27		minimum elong	2593 Jun 18 17:39	28° II 58'07	3°14'53
direct	2592 Jul 20 09:37	13° B 57'12		morning rise	2593 Jun 27 20:14	24° II 54'30	
morning max el	2592 Jul 30 17:16	18° B 44'17	20°09'52	direct	2593 Jun 30 22:43	24° II 33'09	
	2592 Aug 08 10:40	0° Q			2593 Jul 12 17:39	0° B	
asc. node	2592 Aug 09 07:54	1° Q 27'46		morning max el	2593 Jul 12 21:19	0° B 08'25	21°35'42
morning set	2592 Aug 18 01:04	17° Q 58'40		asc. node	2593 Jul 27 04:58	20° B 27'05	
	2592 Aug 23 21:57	0° P			2593 Aug 01 01:50	0° Q	
				morning set	2593 Aug 02 09:56	2° Q 45'33	
superior conj	2592 Aug 25 17:51	3° P 42'13	1°45'19				
minimum elong	2592 Aug 25 17:56	3° P 42'38	1°45'19	superior conj	2593 Aug 09 17:04	18° Q 05'30	1°42'01
max. Earth dist.	2592 Aug 31 02:41	14° P 14'35	1.36682 AU	minimum elong	2593 Aug 09 15:48	17° Q 58'54	1°41'58
evening rise	2592 Sep 03 23:48	21° P 29'13		max. Earth dist.	2593 Aug 13 15:04	26° Q 08'02	1.34986 AU
	2592 Sep 08 19:09	0° A			2593 Aug 15 13:37	0° P	
desc. node	2592 Sep 16 05:50	12° A 13'58		evening rise	2593 Aug 18 00:09	4° P 44'09	
	2592 Sep 28 12:16	0° M			2593 Sep 01 14:10	0° A	
evening max el	2592 Oct 09 18:08	13° M 07'19	25°50'42	desc. node	2593 Sep 03 02:50	2° A 21'11	
retrograde	2592 Oct 22 03:34	20° M 11'07		evening max el	2593 Sep 22 06:29	26° A 44'16	26°46'32
evening set	2592 Oct 28 06:26	17° M 38'28			2593 Sep 26 00:24	0° M	
min. Earth dist.	2592 Nov 01 13:45	12° M 58'32	0.66848 AU	retrograde	2593 Oct 05 07:35	3° M 59'16	
inferior conj	2592 Nov 02 21:23	11° M 18'39	-0°49'33	evening set	2593 Oct 11 23:28	1° M 17'38	
minimum elong	2592 Nov 02 22:41	11° M 14'33	0°49'01		2593 Oct 13 10:05	30° R A	
asc. node	2592 Nov 05 07:06	8° M 23'58		min. Earth dist.	2593 Oct 15 23:43	27° A 14'10	0.65832 AU
morning rise	2592 Nov 08 15:15	5° M 25'28		inferior conj	2593 Oct 17 19:12	25° A 06'27	-1°48'32
direct	2592 Nov 11 20:46	4° M 25'29		minimum elong	2593 Oct 17 22:08	24° A 57'48	1°47'22
morning max el	2592 Nov 18 19:23	8° M 17'50	19°03'56	asc. node	2593 Oct 23 04:10	19° A 50'20	
	2592 Dec 04 10:52	0° X		morning rise	2593 Oct 23 21:28	19° A 24'58	
morning set	2592 Dec 11 10:56	10° X 53'48		direct	2593 Oct 26 18:09	18° A 39'33	
desc. node	2592 Dec 13 05:06	13° X 38'26		morning max el	2593 Nov 02 08:03	22° A 14'26	18°22'33
	2592 Dec 23 16:01	0° B			2593 Nov 08 11:44	0° M	
max. Earth dist.	2592 Dec 25 21:43	3° B 31'05	1.44927 AU	morning set	2593 Nov 21 19:08	20° M 59'37	
					2593 Nov 27 09:32	0° X	
superior conj	2592 Dec 28 02:50	7° B 00'37	-1°29'56	desc. node	2593 Nov 30 02:07	4° X 17'34	
minimum elong	2592 Dec 27 17:52	6° B 25'10	1°29'03				
	2593 Jan 11 10:17	0° A		superior conj	2593 Dec 07 04:22	15° X 30'26	-0°46'34
evening rise	2593 Jan 12 00:44	0° A 59'02		minimum elong	2593 Dec 06 22:25	15° X 07'04	0°45'48
	2593 Jan 30 23:47	0° K		max. Earth dist.	2593 Dec 08 16:52	17° X 53'52	1.45177 AU
evening max el	2593 Feb 01 04:12	1° K 16'45	18°34'24		2593 Dec 16 10:10	0° B	

evening rise	2593 Dec 23 09:01	10° ♄ 54'28		evening rise	2594 Dec 02 22:58	20° ♄ 09'02	
greatest brilliancy	2594 Jan 02 22:13	27° ♄ 25'10	-0.8m		2594 Dec 09 09:21	0° ♄	
	2594 Jan 04 14:37	0° ♄		greatest brilliancy	2594 Dec 17 09:03	11° ♄ 59'13	-0.6m
evening max el	2594 Jan 15 13:13	14° ♄ 45'06	19°14'14	evening max el	2594 Dec 29 17:32	28° ♄ 15'22	20°09'39
asc. node	2594 Jan 19 03:28	17° ♄ 42'58			2594 Dec 31 13:38	0° ♄	
retrograde	2594 Jan 22 14:05	18° ♄ 46'32		asc. node	2595 Jan 06 00:31	2° ♄ 47'30	
evening set	2594 Jan 25 23:36	17° ♄ 39'10		retrograde	2595 Jan 06 12:01	2° ♄ 48'46	
inferior conj	2594 Jan 31 12:55	11° ♄ 48'23	3°19'13	evening set	2595 Jan 10 05:40	1° ♄ 27'31	
minimum elong	2594 Jan 31 10:44	11° ♄ 55'21	3°18'49		2595 Jan 11 21:36	30° ♄	
min. Earth dist.	2594 Feb 01 22:10	10° ♄ 01'43	0.66140 AU	inferior conj	2595 Jan 15 15:39	25° ♄ 23'18	2°50'20
morning rise	2594 Feb 05 21:37	5° ♄ 35'56		minimum elong	2595 Jan 15 13:05	25° ♄ 31'58	2°49'40
direct	2594 Feb 12 06:11	2° ♄ 47'40		min. Earth dist.	2595 Jan 16 11:10	24° ♄ 17'31	0.67105 AU
morning max el	2594 Feb 24 22:44	10° ♄ 18'39	26°14'39	morning rise	2595 Jan 20 20:17	19° ♄ 09'44	
desc. node	2594 Feb 26 01:20	11° ♄ 27'18		direct	2595 Jan 26 15:30	16° ♄ 34'35	
	2594 Mar 12 13:21	0° ♄		morning max el	2595 Feb 07 07:32	23° ♄ 32'35	24°55'16
	2594 Mar 30 21:37	0° ♄		desc. node	2595 Feb 12 22:23	29° ♄ 50'38	
morning set	2594 Apr 02 02:14	4° ♄ 02'26			2595 Feb 13 01:27	0° ♄	
max. Earth dist.	2594 Apr 06 02:36	11° ♄ 42'32	1.35145 AU		2595 Mar 05 22:36	0° ♄	
				morning set	2595 Mar 15 10:53	16° ♄ 07'32	
superior conj	2594 Apr 11 01:40	21° ♄ 37'35	-0°59'44	max. Earth dist.	2595 Mar 19 02:25	22° ♄ 44'09	1.36984 AU
minimum elong	2594 Apr 11 04:44	21° ♄ 53'14	0°59'10		2595 Mar 22 23:05	0° ♄	
	2594 Apr 15 03:01	0° ♄					
asc. node	2594 Apr 17 02:47	4° ♄ 08'18		superior conj	2595 Mar 25 12:50	4° ♄ 59'16	-1°26'22
evening rise	2594 Apr 18 19:44	7° ♄ 40'02		minimum elong	2595 Mar 25 17:01	5° ♄ 19'46	1°25'47
	2594 May 01 00:52	0° ♄		evening rise	2595 Apr 02 22:38	21° ♄ 47'47	
evening max el	2594 May 07 09:32	7° ♄ 49'38	20°34'33	asc. node	2595 Apr 03 23:50	23° ♄ 53'41	
retrograde	2594 May 18 12:36	13° ♄ 14'35			2595 Apr 07 02:45	0° ♄	
evening set	2594 May 20 14:04	13° ♄ 04'11		evening max el	2595 Apr 19 23:50	19° ♄ 27'01	19°27'50
desc. node	2594 May 25 00:33	11° ♄ 39'23		retrograde	2595 Apr 29 09:30	24° ♄ 00'05	
inferior conj	2594 May 29 19:30	9° ♄ 06'24	-1°24'02	evening set	2595 May 01 10:18	23° ♄ 48'15	
minimum elong	2594 May 29 15:32	9° ♄ 12'08	1°22'35	inferior conj	2595 May 09 23:54	19° ♄ 42'30	0°32'58
min. Earth dist.	2594 May 31 00:24	8° ♄ 24'43	0.54997 AU	minimum elong	2595 May 10 01:17	19° ♄ 40'15	0°32'27
morning rise	2594 Jun 07 16:11	4° ♄ 56'51		desc. node	2595 May 11 21:36	18° ♄ 28'33	
direct	2594 Jun 11 08:26	4° ♄ 27'43		min. Earth dist.	2595 May 12 14:55	18° ♄ 01'05	0.55934 AU
morning max el	2594 Jun 24 16:00	10° ♄ 53'54	23°15'21	morning rise	2595 May 18 13:26	15° ♄ 00'30	
	2594 Jul 08 19:09	0° ♄		direct	2595 May 23 04:00	14° ♄ 12'23	
asc. node	2594 Jul 14 02:03	9° ♄ 52'47		morning max el	2595 Jun 06 06:26	21° ♄ 20'14	24°56'50
morning set	2594 Jul 17 21:09	17° ♄ 39'27			2595 Jun 13 19:05	0° ♄	
	2594 Jul 23 15:27	0° ♄		asc. node	2595 Jun 30 23:06	29° ♄ 37'28	
					2595 Jul 01 03:26	0° ♄	
superior conj	2594 Jul 24 22:40	2° ♄ 47'43	1°32'36	morning set	2595 Jul 02 08:57	2° ♄ 34'45	
minimum elong	2594 Jul 24 20:35	2° ♄ 36'32	1°32'24				
max. Earth dist.	2594 Jul 27 12:24	8° ♄ 15'48	1.33663 AU	superior conj	2595 Jul 09 08:13	17° ♄ 40'39	1°18'08
evening rise	2594 Aug 01 13:41	18° ♄ 37'30		minimum elong	2595 Jul 09 05:50	17° ♄ 27'38	1°17'47
	2594 Aug 07 12:51	0° ♄		max. Earth dist.	2595 Jul 10 17:46	20° ♄ 43'10	1.32757 AU
desc. node	2594 Aug 20 23:51	22° ♄ 02'34			2595 Jul 15 02:11	0° ♄	
	2594 Aug 26 19:12	0° ♄		evening rise	2595 Jul 16 12:40	2° ♄ 58'19	
evening max el	2594 Sep 04 18:20	10° ♄ 07'27	27°19'48		2595 Jul 31 08:03	0° ♄	
retrograde	2594 Sep 18 06:03	17° ♄ 26'00		desc. node	2595 Aug 07 20:54	11° ♄ 06'45	
evening set	2594 Sep 25 07:30	14° ♄ 43'36		evening max el	2595 Aug 18 03:54	23° ♄ 04'05	27°24'10
min. Earth dist.	2594 Sep 29 01:30	11° ♄ 15'31	0.64456 AU		2595 Aug 29 03:43	0° ♄	
inferior conj	2594 Oct 01 09:33	8° ♄ 45'16	-2°47'36	retrograde	2595 Aug 31 22:14	0° ♄ 20'53	
minimum elong	2594 Oct 01 14:02	8° ♄ 33'12	2°46'00		2595 Sep 03 14:49	30° ♄	
morning rise	2594 Oct 07 21:39	3° ♄ 18'38		evening set	2595 Sep 08 03:06	27° ♄ 49'25	
direct	2594 Oct 10 11:53	2° ♄ 44'03		min. Earth dist.	2595 Sep 11 17:29	24° ♄ 51'18	0.62745 AU
asc. node	2594 Oct 10 01:15	2° ♄ 45'04		inferior conj	2595 Sep 14 13:34	22° ♄ 07'46	-3°43'21
morning max el	2594 Oct 16 23:59	6° ♄ 10'41	17°58'04	minimum elong	2595 Sep 14 19:02	21° ♄ 54'35	3°41'48
	2594 Nov 01 20:36	0° ♄		morning rise	2595 Sep 21 12:27	16° ♄ 59'05	
morning set	2594 Nov 03 08:01	2° ♄ 29'49		direct	2595 Sep 23 22:54	16° ♄ 31'55	
				asc. node	2595 Sep 26 22:19	17° ♄ 13'33	
superior conj	2594 Nov 16 17:08	24° ♄ 38'32	0°01'43	morning max el	2595 Sep 30 16:07	19° ♄ 58'33	17°51'19
minimum elong	2594 Nov 16 17:20	24° ♄ 39'20	0°01'42		2595 Oct 08 02:22	0° ♄	
behind sun begin	2594 Nov 16 07:03	23° ♄ 57'50		morning set	2595 Oct 16 20:02	15° ♄ 06'20	
behind sun end	2594 Nov 17 03:38	25° ♄ 20'45			2595 Oct 25 08:06	0° ♄	
desc. node	2594 Nov 16 23:09	25° ♄ 02'43					
	2594 Nov 20 01:28	0° ♄		superior conj	2595 Oct 28 06:48	5° ♄ 00'30	0°44'00
max. Earth dist.	2594 Nov 21 11:36	2° ♄ 15'30	1.44687 AU	minimum elong	2595 Oct 28 10:43	5° ♄ 16'57	0°43'29

desc. node	2595 Nov 03 20:10	15°♄50'03		minimum elong	2596 Oct 09 03:16	16°♄59'06	1°14'40
max. Earth dist.	2595 Nov 04 03:09	16°♄18'18	1.43529 AU	max. Earth dist.	2596 Oct 16 13:58	29°♄48'20	1.41846 AU
evening rise	2595 Nov 12 07:59	29°♄16'46			2596 Oct 16 16:46	0°♄	
	2595 Nov 12 19:09	0°♄		desc. node	2596 Oct 20 17:13	6°♄36'26	
	2595 Dec 03 03:13	0°♄		evening rise	2596 Oct 22 04:51	8°♄59'52	
evening max el	2595 Dec 12 16:21	11°♄46'33	21°17'52		2596 Nov 04 22:30	0°♄	
retrograde	2595 Dec 21 09:39	16°♄57'13		evening max el	2596 Nov 24 09:58	25°♄19'43	22°34'41
asc. node	2595 Dec 23 21:34	16°♄22'49			2596 Nov 30 05:32	0°♄	
evening set	2595 Dec 25 13:14	15°♄20'43		retrograde	2596 Dec 04 05:13	1°♄09'05	
inferior conj	2595 Dec 30 21:46	9°♄06'13	2°12'50		2596 Dec 07 20:44	30°♄♄	
minimum elong	2595 Dec 30 19:19	9°♄14'41	2°12'02	evening set	2596 Dec 08 20:39	29°♄16'03	
min. Earth dist.	2595 Dec 31 05:02	8°♄41'06	0.67679 AU	asc. node	2596 Dec 09 18:36	28°♄26'31	
morning rise	2596 Jan 05 01:12	2°♄53'27		inferior conj	2596 Dec 14 05:17	22°♄54'50	1°28'22
direct	2596 Jan 10 05:40	0°♄38'02		minimum elong	2596 Dec 14 03:24	23°♄01'19	1°27'39
morning max el	2596 Jan 20 16:15	6°♄50'58	23°27'14	min. Earth dist.	2596 Dec 14 01:22	23°♄08'22	0.67888 AU
desc. node	2596 Jan 30 19:24	18°♄59'36		morning rise	2596 Dec 19 10:01	16°♄44'46	
	2596 Feb 07 15:45	0°♄		direct	2596 Dec 23 23:40	14°♄52'06	
morning set	2596 Feb 24 19:42	27°♄00'18		morning max el	2597 Jan 02 04:16	20°♄16'02	22°00'06
	2596 Feb 26 13:56	0°♄			2597 Jan 10 08:54	0°♄	
max. Earth dist.	2596 Feb 28 21:05	3°♄58'46	1.39098 AU	desc. node	2597 Jan 16 16:26	8°♄41'27	
					2597 Jan 30 21:36	0°♄	
superior conj	2596 Mar 07 10:14	17°♄37'40	-1°48'45	morning set	2597 Feb 03 23:38	6°♄29'06	
minimum elong	2596 Mar 07 14:32	17°♄57'43	1°48'22	max. Earth dist.	2597 Feb 09 19:04	16°♄00'44	1.41237 AU
	2596 Mar 13 22:01	0°♄					
evening rise	2596 Mar 16 17:35	5°♄27'24		superior conj	2597 Feb 17 12:59	29°♄20'22	-2°03'06
asc. node	2596 Mar 20 20:53	13°♄21'51		minimum elong	2597 Feb 17 15:24	29°♄31'01	2°03'01
	2596 Mar 31 09:38	0°♄			2597 Feb 17 21:56	0°♄	
evening max el	2596 Apr 02 00:33	1°♄43'11	18°41'06	evening rise	2597 Feb 28 01:11	18°♄30'07	
retrograde	2596 Apr 09 23:36	5°♄36'35			2597 Mar 06 08:17	0°♄	
evening set	2596 Apr 12 06:04	5°♄18'47		asc. node	2597 Mar 07 17:55	2°♄25'56	
inferior conj	2596 Apr 19 23:56	0°♄55'21	2°05'35	evening max el	2597 Mar 16 08:20	14°♄28'32	18°14'24
minimum elong	2596 Apr 20 03:46	0°♄48'08	2°04'29	retrograde	2597 Mar 23 08:32	17°♄59'07	
	2596 Apr 21 05:11	30°♄♄		evening set	2597 Mar 25 21:11	17°♄32'36	
min. Earth dist.	2596 Apr 23 08:19	28°♄25'15	0.57614 AU	inferior conj	2597 Apr 01 21:07	12°♄48'11	3°04'59
morning rise	2596 Apr 27 22:19	25°♄39'49		minimum elong	2597 Apr 02 00:25	12°♄40'55	3°04'21
desc. node	2596 Apr 27 18:37	25°♄44'06		min. Earth dist.	2597 Apr 05 06:36	9°♄50'29	0.59699 AU
direct	2596 May 03 13:50	24°♄20'42		morning rise	2597 Apr 09 01:16	7°♄06'56	
	2596 May 15 20:22	0°♄		desc. node	2597 Apr 14 15:38	5°♄13'43	
morning max el	2596 May 17 22:27	1°♄54'45	26°24'53	direct	2597 Apr 15 12:09	5°♄11'43	
	2596 Jun 06 22:20	0°♄		morning max el	2597 Apr 29 20:02	13°♄00'15	27°25'26
morning set	2596 Jun 15 19:48	17°♄26'33			2597 May 13 07:20	0°♄	
asc. node	2596 Jun 16 20:09	19°♄35'33			2597 May 30 03:07	0°♄	
	2596 Jun 21 15:02	0°♄		morning set	2597 May 31 03:54	2°♄08'06	
				asc. node	2597 Jun 03 17:10	9°♄41'10	
superior conj	2596 Jun 22 19:44	2°♄37'57	0°59'25	max. Earth dist.	2597 Jun 06 16:34	16°♄10'53	1.32145 AU
minimum elong	2596 Jun 22 17:32	2°♄25'51	0°59'00				
max. Earth dist.	2596 Jun 23 04:23	3°♄25'36	1.32257 AU	superior conj	2597 Jun 07 07:23	17°♄32'22	0°37'08
evening rise	2596 Jun 29 18:10	17°♄37'41		minimum elong	2597 Jun 07 05:48	17°♄23'44	0°36'48
	2596 Jul 05 22:44	0°♄			2597 Jun 13 00:13	0°♄	
desc. node	2596 Jul 24 17:56	29°♄18'21		evening rise	2597 Jun 14 03:41	2°♄26'28	
	2596 Jul 25 07:55	0°♄			2597 Jun 28 23:48	0°♄	
evening max el	2596 Jul 30 08:44	5°♄22'11	26°55'35	desc. node	2597 Jul 11 14:57	16°♄14'55	
retrograde	2596 Aug 13 06:52	12°♄35'00		evening max el	2597 Jul 12 06:28	16°♄52'35	25°54'43
evening set	2596 Aug 20 05:55	10°♄27'45		retrograde	2597 Jul 26 06:16	24°♄01'29	
min. Earth dist.	2596 Aug 23 22:58	7°♄48'24	0.60781 AU	evening set	2597 Aug 01 11:10	22°♄29'24	
inferior conj	2596 Aug 27 03:58	5°♄05'50	-4°30'05	min. Earth dist.	2597 Aug 05 18:51	19°♄52'16	0.58720 AU
minimum elong	2596 Aug 27 09:00	4°♄55'10	4°29'09	inferior conj	2597 Aug 09 01:07	17°♄29'01	-4°58'38
morning rise	2596 Sep 03 13:54	0°♄18'06		minimum elong	2597 Aug 09 03:18	17°♄25'00	4°58'30
	2596 Sep 04 21:53	30°♄♄		morning rise	2597 Aug 16 21:39	13°♄04'19	
direct	2596 Sep 05 23:31	29°♄55'26		direct	2597 Aug 19 09:17	12°♄44'02	
	2596 Sep 07 00:53	0°♄		morning max el	2597 Aug 27 12:24	16°♄36'57	18°35'49
asc. node	2596 Sep 12 19:20	3°♄06'47		asc. node	2597 Aug 30 16:22	20°♄09'37	
morning max el	2596 Sep 13 05:18	3°♄30'20	18°03'26		2597 Sep 06 01:25	0°♄	
morning set	2596 Sep 29 00:59	28°♄31'20		morning set	2597 Sep 12 17:51	12°♄30'34	
	2596 Sep 29 20:03	0°♄					
superior conj	2596 Oct 08 22:58	16°♄40'03	1°15'09	superior conj	2597 Sep 21 13:04	29°♄24'18	1°34'39
				minimum elong	2597 Sep 21 15:58	29°♄37'52	1°34'26

	2597 Sep 21 20:42	0°♄		asc. node	2598 Aug 17 13:24	8°♄07'33	
max. Earth dist.	2597 Sep 28 20:03	12°♄36'37	1.39843 AU	morning set	2598 Aug 27 18:57	26°♄53'56	
evening rise	2597 Oct 02 23:43	19°♄43'44			2598 Aug 29 08:00	0°♄	
desc. node	2597 Oct 07 14:15	27°♄18'09					
	2597 Oct 09 06:47	0°♄		superior conj	2598 Sep 04 19:33	12°♄57'35	1°43'55
	2597 Oct 30 04:25	0°♄		minimum elong	2598 Sep 04 20:37	13°♄02'47	1°43'54
evening max el	2597 Nov 06 23:49	8°♄56'02	23°54'42	max. Earth dist.	2598 Sep 10 23:59	24°♄45'23	1.37784 AU
retrograde	2597 Nov 17 21:34	15°♄21'10			2598 Sep 13 21:13	0°♄	
evening set	2597 Nov 23 02:20	13°♄11'17		evening rise	2598 Sep 14 18:12	1°♄33'20	
asc. node	2597 Nov 26 15:35	9°♄17'10		desc. node	2598 Sep 24 11:16	17°♄50'47	
min. Earth dist.	2597 Nov 27 21:48	7°♄36'42	0.67746 AU		2598 Oct 02 11:23	0°♄	
inferior conj	2597 Nov 28 12:25	6°♄47'07	0°38'12	evening max el	2598 Oct 20 11:53	22°♄35'03	25°11'14
minimum elong	2597 Nov 28 11:31	6°♄50'10	0°37'49	retrograde	2598 Nov 01 09:45	29°♄28'29	
morning rise	2597 Dec 03 20:41	0°♄41'52		evening set	2598 Nov 07 04:37	27°♄03'01	
	2597 Dec 04 22:10	30°♄		min. Earth dist.	2598 Nov 11 16:04	22°♄02'49	0.67267 AU
direct	2597 Dec 07 20:28	29°♄11'48		inferior conj	2598 Nov 12 17:25	20°♄40'09	-0°16'32
	2597 Dec 10 23:13	0°♄		minimum elong	2598 Nov 12 17:50	20°♄38'48	0°16'22
morning max el	2597 Dec 15 23:03	3°♄52'16	20°41'16	asc. node	2598 Nov 13 12:37	19°♄37'55	
desc. node	2598 Jan 03 13:28	28°♄47'13		morning rise	2598 Nov 18 07:15	14°♄41'55	
	2598 Jan 04 08:57	0°♄		direct	2598 Nov 21 18:45	13°♄32'06	
morning set	2598 Jan 14 02:31	14°♄51'11		morning max el	2598 Nov 29 01:43	17°♄39'11	19°35'11
max. Earth dist.	2598 Jan 23 00:45	29°♄00'17	1.43098 AU		2598 Dec 08 17:33	0°♄	
	2598 Jan 23 15:29	0°♄		greatest brilliancy	2598 Dec 12 07:01	5°♄14'23	-0.7m
				desc. node	2598 Dec 21 10:29	19°♄09'40	
superior conj	2598 Jan 29 15:59	9°♄56'07	-2°04'30	morning set	2598 Dec 23 23:32	23°♄05'12	
minimum elong	2598 Jan 29 13:50	9°♄47'04	2°04'27		2598 Dec 28 10:28	0°♄	
	2598 Feb 10 06:34	0°♄		max. Earth dist.	2599 Jan 05 13:11	12°♄44'08	1.44443 AU
evening rise	2598 Feb 10 17:27	0°♄48'06					
asc. node	2598 Feb 22 14:56	20°♄58'37		superior conj	2599 Jan 09 16:42	19°♄20'55	-1°48'08
evening max el	2598 Feb 27 20:00	27°♄34'44	18°07'18	minimum elong	2599 Jan 09 09:07	18°♄50'28	1°47'35
	2598 Mar 02 22:17	0°♄			2599 Jan 16 06:02	0°♄	
retrograde	2598 Mar 06 08:51	0°♄58'07		evening rise	2599 Jan 23 13:57	12°♄12'24	
evening set	2598 Mar 09 02:57	0°♄21'29			2599 Feb 03 07:06	0°♄	
	2598 Mar 09 20:34	30°♄		asc. node	2599 Feb 09 11:57	8°♄49'51	
inferior conj	2598 Mar 15 12:44	25°♄16'24	3°34'36	evening max el	2599 Feb 11 08:34	10°♄53'46	18°19'16
minimum elong	2598 Mar 15 14:14	25°♄12'39	3°34'28	retrograde	2599 Feb 17 19:47	14°♄23'15	
min. Earth dist.	2598 Mar 18 12:41	22°♄15'52	0.61844 AU	evening set	2599 Feb 20 19:14	13°♄35'33	
morning rise	2598 Mar 22 00:02	19°♄18'53		inferior conj	2599 Feb 26 18:41	8°♄11'20	3°41'18
direct	2598 Mar 28 20:52	16°♄52'06		minimum elong	2599 Feb 26 18:20	8°♄12'19	3°41'18
desc. node	2598 Apr 01 12:39	17°♄29'56		min. Earth dist.	2599 Mar 01 04:11	5°♄29'17	0.63794 AU
morning max el	2598 Apr 12 00:03	24°♄48'05	27°49'59	morning rise	2599 Mar 04 16:37	2°♄04'49	
	2598 Apr 16 17:58	0°♄			2599 Mar 08 02:27	30°♄	
	2598 May 06 16:23	0°♄		direct	2599 Mar 11 14:09	29°♄18'18	
morning set	2598 May 15 07:21	16°♄33'13			2599 Mar 15 06:44	0°♄	
max. Earth dist.	2598 May 21 02:20	28°♄45'45	1.32424 AU	desc. node	2599 Mar 19 09:41	2°♄10'40	
asc. node	2598 May 21 14:13	29°♄50'06		morning max el	2599 Mar 25 08:23	7°♄14'03	27°37'22
	2598 May 21 16:02	0°♄			2599 Apr 11 19:59	0°♄	
					2599 Apr 28 20:52	0°♄	
superior conj	2598 May 22 17:30	2°♄18'29	0°11'58	morning set	2599 Apr 29 03:44	0°♄33'59	
minimum elong	2598 May 22 16:56	2°♄15'26	0°11'51	max. Earth dist.	2599 May 04 05:34	10°♄56'35	1.33118 AU
behind sun begin	2598 May 22 13:30	1°♄56'42					
behind sun end	2598 May 22 20:23	2°♄34'11		superior conj	2599 May 07 00:18	16°♄50'24	-0°15'17
evening rise	2598 May 29 15:13	17°♄17'53		minimum elong	2599 May 07 01:03	16°♄54'27	0°15'06
	2598 Jun 04 21:40	0°♄		behind sun begin	2599 May 06 23:20	16°♄45'14	
evening max el	2598 Jun 23 21:33	27°♄39'53	24°29'15	behind sun end	2599 May 07 02:46	17°♄03'41	
	2598 Jun 26 12:59	0°♄		asc. node	2599 May 08 11:16	19°♄58'10	
desc. node	2598 Jun 28 11:57	1°♄27'00			2599 May 13 03:14	0°♄	
retrograde	2598 Jul 07 18:53	4°♄41'08		evening rise	2599 May 14 02:54	2°♄05'34	
evening set	2598 Jul 12 16:37	3°♄47'07			2599 May 29 14:50	0°♄	
min. Earth dist.	2598 Jul 18 08:31	0°♄54'02	0.56826 AU	evening max el	2599 Jun 05 11:23	8°♄07'52	22°53'13
	2598 Jul 19 18:40	30°♄		desc. node	2599 Jun 15 08:57	14°♄19'21	
inferior conj	2598 Jul 21 02:21	29°♄09'02	-4°55'36	retrograde	2599 Jun 18 19:20	14°♄46'17	
minimum elong	2598 Jul 20 23:15	29°♄14'00	4°55'22	evening set	2599 Jun 22 04:54	14°♄20'56	
morning rise	2598 Jul 29 08:35	25°♄05'30		min. Earth dist.	2599 Jun 29 20:08	10°♄57'56	0.55441 AU
direct	2598 Aug 01 00:12	24°♄46'20		inferior conj	2599 Jul 01 08:33	10°♄05'25	-4°07'15
morning max el	2598 Aug 10 10:24	29°♄09'33	19°29'30	minimum elong	2599 Jul 01 00:53	10°♄16'29	4°05'32
	2598 Aug 11 07:06	0°♄		morning rise	2599 Jul 09 23:16	6°♄13'23	

direct	2599 Jul 12 20:32	5°  53'51		direct	2600 Jun 23 06:50	16°  09'33	
morning max el	2599 Jul 23 21:15	11°  00'44	20°44'15	morning max el	2600 Jul 05 20:54	22°  07'37	22°16'53
asc. node	2599 Aug 04 10:29	26°  48'04			2600 Jul 12 16:14	0° 	
	2599 Aug 06 04:51	0° 		asc. node	2600 Jul 22 07:34	15°  59'57	
morning set	2599 Aug 12 01:40	11°  34'33		morning set	2600 Jul 27 11:47	26°  25'20	
					2600 Jul 29 04:33	0° 	
superior conj	2599 Aug 19 13:48	27°  06'38	1°44'45	superior conj	2600 Aug 03 16:06	11°  39'25	1°38'43
minimum elong	2599 Aug 19 13:15	27°  03'49	1°44'45	minimum elong	2600 Aug 03 14:26	11°  30'32	1°38'35
	2599 Aug 20 23:54	0° 		max. Earth dist.	2600 Aug 06 23:39	18°  34'27	1.34376 AU
max. Earth dist.	2599 Aug 24 07:34	6°  36'18	1.35911 AU	evening rise	2600 Aug 11 15:36	27°  05'03	
evening rise	2599 Aug 28 09:04	14°  21'35			2600 Aug 12 17:28	0° 	
	2599 Sep 06 06:21	0° 		desc. node	2600 Aug 29 05:20	28°  07'05	
desc. node	2599 Sep 11 08:18	8°  09'34			2600 Aug 30 11:49	0° 	
	2599 Sep 27 05:00	0° 		evening max el	2600 Sep 15 12:28	19°  48'25	27°03'55
evening max el	2599 Oct 03 00:00	6°  15'12	26°16'49	retrograde	2600 Sep 28 18:54	27°  05'42	
retrograde	2599 Oct 15 17:08	13°  25'51		evening set	2600 Oct 05 15:14	24°  22'52	
evening set	2599 Oct 22 01:41	10°  48'32		min. Earth dist.	2600 Oct 09 12:46	20°  34'26	0.65288 AU
min. Earth dist.	2599 Oct 26 05:51	6°  23'59	0.66451 AU	inferior conj	2600 Oct 11 13:25	18°  16'31	-2°13'47
inferior conj	2599 Oct 27 18:28	4°  31'32	-1°14'26	minimum elong	2600 Oct 11 17:03	18°  06'12	2°12'22
minimum elong	2599 Oct 27 20:27	4°  25'25	1°13'36	morning rise	2600 Oct 17 19:42	12°  40'37	
asc. node	2599 Oct 31 09:40	0° 		asc. node	2600 Oct 18 06:44	12°  28'16	
	2599 Oct 31 21:24	30°  R 		direct	2600 Oct 20 13:18	12°  00'15	
morning rise	2599 Nov 02 15:43	28°  42'57		morning max el	2600 Oct 27 01:39	15°  30'50	18°09'56
direct	2599 Nov 05 17:05	27°  49'46			2600 Nov 06 12:21	0° 	
	2599 Nov 10 18:02	0° 		morning set	2600 Nov 14 11:59	13°  03'50	
morning max el	2599 Nov 12 11:20	1°  33'55	18°44'18		2600 Nov 24 22:02	0° 	
	2599 Dec 02 03:36	0° 		desc. node	2600 Nov 25 04:36	0° 	
morning set	2599 Dec 03 15:09	2°  20'33					
desc. node	2599 Dec 08 07:33	9°  44'09		superior conj	2600 Nov 29 01:32	6°  23'15	-0°25'57
superior conj	2599 Dec 19 21:46	27°  27'50	-1°12'58	minimum elong	2600 Nov 28 22:14	6°  23'08	0°25'30
minimum elong	2599 Dec 19 13:17	27°  23'47	1°12'00	max. Earth dist.	2600 Dec 02 01:28	11°  20'12	1.45057 AU
max. Earth dist.	2599 Dec 19 06:16	26°  27'56	1.45119 AU		2600 Dec 14 00:18	0° 	
	2599 Dec 21 05:03	0° 		evening rise	2600 Dec 15 10:44	2°  13'44	
evening rise	2600 Jan 04 11:27	22°  38'56		greatest brilliancy	2600 Dec 28 00:36	21°  35'42	-0.7m
	2600 Jan 09 01:11	0° 			2601 Jan 02 18:55	0° 	
greatest brilliancy	2600 Jan 11 15:36	4°  10'19	-0.9m	evening max el	2601 Jan 09 02:49	7°  50'23	19°36'10
evening max el	2600 Jan 25 19:33	24°  20'21	18°49'21	asc. node	2601 Jan 14 06:01	11°  38'14	
asc. node	2600 Jan 27 08:59	25°  47'48		retrograde	2601 Jan 16 10:20	12°  04'09	
retrograde	2600 Feb 01 13:20	28°  07'08		evening set	2601 Jan 19 23:10	10°  51'01	
evening set	2600 Feb 04 18:50	27°  07'20		inferior conj	2601 Jan 25 10:49	4°  54'26	3°08'08
inferior conj	2600 Feb 10 11:06	21°  25'51	3°31'03	minimum elong	2601 Jan 25 08:25	5°  02'21	3°07'37
minimum elong	2600 Feb 10 09:25	21°  31'02	3°30'51	min. Earth dist.	2601 Jan 26 14:05	3°  24'56	0.66600 AU
min. Earth dist.	2600 Feb 12 05:05	19°  16'31	0.65401 AU		2601 Jan 29 09:48	30°  R 	
morning rise	2600 Feb 15 23:36	15°  14'51		morning rise	2601 Jan 30 17:26	28°  34'13	
direct	2600 Feb 22 14:31	12°  23'10		direct	2601 Feb 05 20:46	25°  37'35	
desc. node	2600 Mar 06 06:44	18°  40'57			2601 Feb 14 14:17	0° 	
morning max el	2600 Mar 07 18:09	20°  07'10	26°52'11	morning max el	2601 Feb 18 03:21	3°  15'49	25°42'39
	2600 Mar 16 05:52	0° 		desc. node	2601 Feb 21 03:47	6°  30'01	
	2600 Apr 04 21:46	0° 			2601 Mar 10 12:04	0° 	
morning set	2600 Apr 12 13:50	14°  00'20		morning set	2601 Mar 26 09:21	26°  39'45	
max. Earth dist.	2600 Apr 16 22:40	22°  03'41	1.34270 AU		2601 Mar 28 04:40	0° 	
	2600 Apr 20 13:49	0° 		max. Earth dist.	2601 Mar 30 04:16	3°  44'32	1.35880 AU
superior conj	2600 Apr 21 01:40	1°  30'13	-0°43'32	superior conj	2601 Apr 04 19:00	14°  00'44	-1°11'20
minimum elong	2600 Apr 21 03:54	1°  13'11	0°43'05	minimum elong	2601 Apr 04 22:36	15°  02'41	1°10'45
asc. node	2600 Apr 25 08:19	10°  01'03		asc. node	2601 Apr 12 05:23	29°  05'40	
evening rise	2600 Apr 28 12:53	16°  04'31			2601 Apr 12 06:25	0° 	
	2600 May 05 05:31	0° 		evening rise	2601 Apr 12 19:04	1°  04'30	
evening max el	2600 May 18 07:41	18°  48'04	21°21'19	evening max el	2601 Apr 30 15:13	0° 	
retrograde	2600 May 30 09:31	24°  42'48			2601 Apr 30 14:03	0° 	
evening set	2600 Jun 01 17:35	24°  30'18		retrograde	2601 May 11 00:04	5°  04'22	
desc. node	2600 Jun 02 05:58	24°  24'18		evening set	2601 May 13 00:10	4°  02'56	
inferior conj	2600 Jun 11 03:06	20°  30'57	-2°32'01	desc. node	2601 May 20 02:59	2°  00'40	
minimum elong	2600 Jun 10 20:16	20°  40'32	2°29'45	inferior conj	2601 May 21 23:54	0° 	
min. Earth dist.	2600 Jun 11 08:01	20°  24'05	0.54883 AU	minimum elong	2601 May 21 22:22	0° 	
morning rise	2600 Jun 19 23:27	16°  23'18			2601 May 23 12:14	30°  R 	

min. Earth dist.	2601 May 23 21:03	29°♄46'56	0.55294 AU
morning rise	2601 May 30 18:47	26°♄32'38	
direct	2601 Jun 03 20:01	25°♄56'49	
	2601 Jun 14 08:34	0°♄	
morning max el	2601 Jun 17 12:52	2°♄41'47	23°59'00
	2601 Jul 06 08:42	0°♄	
asc. node	2601 Jul 09 04:39	5°♄35'01	
morning set	2601 Jul 11 23:29	11°♄20'56	
superior conj	2601 Jul 18 23:40	26°♄27'14	1°27'02
minimum elong	2601 Jul 18 21:23	26°♄14'55	1°26'45
	2601 Jul 20 15:11	0°♄	
max. Earth dist.	2601 Jul 21 00:56	0°♄52'11	1.33239 AU
evening rise	2601 Jul 26 09:36	12°♄01'47	
	2601 Aug 04 23:04	0°♄	
desc. node	2601 Aug 16 02:20	17°♄34'12	
	2601 Aug 25 23:57	0°♄	
evening max el	2601 Aug 28 23:50	3°♄02'37	27°25'26
retrograde	2601 Sep 11 14:30	10°♄19'48	
evening set	2601 Sep 18 18:22	7°♄40'48	
min. Earth dist.	2601 Sep 22 10:32	4°♄26'16	0.63774 AU
inferior conj	2601 Sep 24 23:44	1°♄49'21	-3°11'56
minimum elong	2601 Sep 25 04:46	1°♄36'27	3°10'17
	2601 Sep 26 19:27	30°♄	
morning rise	2601 Oct 01 16:20	26°♄29'44	
direct	2601 Oct 04 04:44	25°♄58'32	
asc. node	2601 Oct 05 03:49	26°♄03'10	
morning max el	2601 Oct 10 17:57	29°♄23'57	17°52'54
	2601 Oct 11 07:58	0°♄	
morning set	2601 Oct 27 11:29	25°♄04'42	
	2601 Oct 30 08:06	0°♄	
superior conj	2601 Nov 08 23:52	16°♄12'41	0°20'53
minimum elong	2601 Nov 09 02:06	16°♄21'49	0°20'33
desc. node	2601 Nov 12 01:38	21°♄12'41	
max. Earth dist.	2601 Nov 14 19:36	25°♄37'24	1.44273 AU
	2601 Nov 17 13:49	0°♄	
evening rise	2601 Nov 24 20:30	11°♄20'15	
	2601 Dec 07 04:52	0°♄	
evening max el	2601 Dec 23 04:50	21°♄20'55	20°37'24
retrograde	2601 Dec 31 08:18	26°♄09'23	
asc. node	2602 Jan 01 03:03	26°♄05'59	
evening set	2602 Jan 04 06:03	24°♄41'34	
inferior conj	2602 Jan 09 15:12	18°♄32'34	2°35'22
minimum elong	2602 Jan 09 12:37	18°♄41'22	2°34'37
min. Earth dist.	2602 Jan 10 05:16	17°♄44'31	0.67394 AU
morning rise	2602 Jan 14 19:01	12°♄19'24	