

superior conj	9100 May 10 14:45	23°♄33'03	-2°07'19	max. Earth dist.	9101 Apr 16 11:22	26°♄22'50	1.44705 AU
minimum elong	9100 May 10 18:55	23°♄50'30	2°07'22		9101 Apr 18 18:05	0°♄	
	9100 May 14 10:08	0°♄					
evening rise	9100 May 22 18:08	14°♄31'50		superior conj	9101 Apr 20 18:38	3°♄13'59	-2°11'46
asc. node	9100 May 29 23:29	27°♄08'13		minimum elong	9101 Apr 20 16:47	3°♄06'34	2°11'53
	9100 May 31 16:50	0°♄		evening rise	9101 May 04 15:46	26°♄03'36	
evening max el	9100 Jun 08 15:38	10°♄51'13	18°04'54		9101 May 07 00:01	0°♄	
retrograde	9100 Jun 15 04:25	14°♄13'10		asc. node	9101 May 16 20:34	16°♄03'11	
evening set	9100 Jun 17 19:31	13°♄40'02		evening max el	9101 May 23 05:07	24°♄14'15	18°14'24
inferior conj	9100 Jun 24 07:36	8°♄36'50	2°23'42	retrograde	9101 May 29 14:13	27°♄37'23	
minimum elong	9100 Jun 24 10:30	8°♄29'34	2°22'41	evening set	9101 Jun 01 12:46	26°♄51'11	
min. Earth dist.	9100 Jun 27 09:38	5°♄33'18	0.61484 AU	inferior conj	9101 Jun 07 12:31	21°♄29'59	3°00'51
morning rise	9100 Jun 30 23:14	2°♄35'27		minimum elong	9101 Jun 07 14:35	21°♄24'10	3°00'15
desc. node	9100 Jul 03 09:19	1°♄13'19		min. Earth dist.	9101 Jun 10 01:43	18°♄39'02	0.63621 AU
direct	9100 Jul 07 15:27	0°♄17'34		morning rise	9101 Jun 13 15:01	15°♄16'24	
morning max el	9100 Jul 21 20:59	8°♄18'10	27°55'56	direct	9101 Jun 20 08:32	12°♄38'36	
	9100 Aug 07 12:06	0°♄		desc. node	9101 Jun 20 06:22	12°♄38'38	
morning set	9100 Aug 24 04:53	0°♄14'45		morning max el	9101 Jul 04 05:44	20°♄41'21	27°42'44
	9100 Aug 24 02:01	0°♄			9101 Jul 12 06:16	0°♄	
asc. node	9100 Aug 25 23:01	3°♄53'42			9101 Jul 31 13:59	0°♄	
max. Earth dist.	9100 Aug 29 22:29	12°♄25'35	1.31881 AU	morning set	9101 Aug 08 00:18	14°♄05'00	
				asc. node	9101 Aug 12 19:58	23°♄58'28	
superior conj	9100 Aug 31 14:23	16°♄04'12	0°54'22	max. Earth dist.	9101 Aug 13 00:28	24°♄22'11	1.32664 AU
minimum elong	9100 Aug 31 12:18	15°♄52'43	0°53'53				
	9100 Sep 06 22:46	0°♄		superior conj	9101 Aug 15 21:20	0°♄29'54	0°30'25
evening rise	9100 Sep 07 08:56	0°♄54'40		minimum elong	9101 Aug 15 19:56	0°♄22'22	0°29'58
	9100 Sep 23 02:45	0°♄			9101 Aug 15 15:47	0°♄	
desc. node	9100 Sep 29 07:52	8°♄17'01		evening rise	9101 Aug 22 20:34	15°♄34'32	
evening max el	9100 Oct 03 05:25	12°♄26'25	24°47'58		9101 Aug 29 23:45	0°♄	
retrograde	9100 Oct 17 01:09	19°♄23'43		evening max el	9101 Sep 14 16:28	22°♄40'22	23°09'18
evening set	9100 Oct 22 12:20	18°♄16'43		desc. node	9101 Sep 16 05:02	24°♄04'34	
min. Earth dist.	9100 Oct 27 16:40	15°♄31'50	0.56809 AU	retrograde	9101 Sep 28 01:39	29°♄21'17	
inferior conj	9100 Oct 30 09:39	13°♄46'54	-5°30'32	evening set	9101 Oct 02 01:27	28°♄46'28	
minimum elong	9100 Oct 30 13:42	13°♄40'20	5°29'58	min. Earth dist.	9101 Oct 09 01:40	25°♄32'51	0.55358 AU
morning rise	9100 Nov 07 17:19	9°♄40'41		inferior conj	9101 Oct 10 16:26	24°♄36'31	-5°34'35
direct	9100 Nov 10 05:26	9°♄23'11		minimum elong	9101 Oct 10 13:06	24°♄41'22	5°34'16
morning max el	9100 Nov 19 15:19	13°♄51'39	19°21'59	morning rise	9101 Oct 19 02:45	20°♄46'01	
asc. node	9100 Nov 21 22:53	16°♄19'40		direct	9101 Oct 22 02:33	20°♄24'44	
	9100 Nov 30 20:24	0°♄		morning max el	9101 Nov 02 01:30	25°♄33'29	20°37'08
morning set	9100 Dec 06 17:47	11°♄23'25			9101 Nov 06 02:03	0°♄	
				asc. node	9101 Nov 08 19:52	3°♄45'29	
superior conj	9100 Dec 14 19:41	27°♄28'49	1°19'03	morning set	9101 Nov 21 00:56	26°♄04'05	
minimum elong	9100 Dec 14 22:39	27°♄43'14	1°18'59		9101 Nov 22 22:31	0°♄	
	9100 Dec 16 02:53	0°♄		superior conj	9101 Nov 28 12:22	11°♄31'45	1°33'17
max. Earth dist.	9100 Dec 21 08:00	9°♄47'01	1.38158 AU	minimum elong	9101 Nov 28 14:16	11°♄41'28	1°33'24
evening rise	9100 Dec 25 01:36	16°♄27'30		max. Earth dist.	9101 Dec 03 15:37	21°♄44'56	1.36089 AU
desc. node	9100 Dec 26 06:38	18°♄33'41		evening rise	9101 Dec 07 13:34	29°♄09'01	
	9101 Jan 02 03:41	0°♄			9101 Dec 08 00:39	0°♄	
	9101 Jan 23 07:51	0°♄		desc. node	9101 Dec 13 03:40	9°♄05'58	
evening max el	9101 Jan 29 13:16	6°♄51'55	24°59'51		9101 Dec 26 09:36	0°♄	
retrograde	9101 Feb 10 09:59	13°♄45'38		evening max el	9102 Jan 12 02:28	20°♄39'03	26°08'10
evening set	9101 Feb 16 02:16	11°♄23'55		retrograde	9102 Jan 24 19:13	27°♄51'51	
asc. node	9101 Feb 17 21:57	9°♄37'27		evening set	9102 Jan 30 23:41	25°♄20'59	
min. Earth dist.	9101 Feb 20 13:56	6°♄22'43	0.67807 AU	min. Earth dist.	9102 Feb 04 04:51	20°♄54'15	0.66871 AU
inferior conj	9101 Feb 21 16:41	4°♄54'52	1°12'34	asc. node	9102 Feb 04 19:05	20°♄10'30	
minimum elong	9101 Feb 21 15:04	5°♄00'11	1°12'06	inferior conj	9102 Feb 05 19:08	18°♄55'50	0°19'50
	9101 Feb 25 21:33	30°♄		minimum elong	9102 Feb 05 18:36	18°♄57'27	0°19'50
morning rise	9101 Feb 27 04:08	28°♄58'18		morning rise	9102 Feb 11 14:14	13°♄08'29	
direct	9101 Mar 02 18:52	27°♄43'17		direct	9102 Feb 14 17:45	12°♄12'09	
	9101 Mar 08 01:53	0°♄		morning max el	9102 Feb 21 10:00	15°♄49'22	18°42'19
morning max el	9101 Mar 10 00:36	1°♄44'32	19°33'51		9102 Mar 04 03:12	0°♄	
greatest brilliancy	9101 Mar 22 17:21	18°♄20'07	-0.7m	desc. node	9102 Mar 11 03:25	10°♄49'50	
desc. node	9101 Mar 24 06:33	20°♄37'58		morning set	9102 Mar 14 20:24	16°♄38'25	
	9101 Mar 30 11:24	0°♄			9102 Mar 23 09:04	0°♄	
morning set	9101 Apr 04 07:45	7°♄25'59					

max. Earth dist.	9102 Mar 30 04:38	10°♊39'45	1.45465 AU		9103 Feb 05 02:02	0°♊	
				morning set	9103 Feb 23 13:41	27°♊18'14	
superior conj	9102 Mar 31 03:49	12°♊10'32	-1°56'18		9103 Feb 25 05:29	0°♊	
minimum elong	9102 Mar 30 19:26	11°♊37'41	1°55'45	desc. node	9103 Feb 26 00:19	1°♊16'25	
	9102 Apr 11 10:48	0°♋					
evening rise	9102 Apr 15 13:46	6°♋35'31		superior conj	9103 Mar 10 10:27	21°♋07'37	-1°22'34
greatest brilliancy	9102 Apr 22 22:35	18°♋23'53	-0.9m	minimum elong	9103 Mar 10 01:29	20°♋32'18	1°21'30
	9102 Apr 30 11:56	0°♌		max. Earth dist.	9103 Mar 13 00:25	25°♋11'03	1.45489 AU
asc. node	9102 May 03 17:42	4°♌24'07			9103 Mar 16 02:19	0°♌	
evening max el	9102 May 06 16:53	7°♌47'28	18°42'00	evening rise	9103 Mar 26 13:59	16°♌18'03	
retrograde	9102 May 13 07:16	11°♌24'49			9103 Apr 04 10:54	0°♍	
evening set	9102 May 16 13:28	10°♌24'16		greatest brilliancy	9103 Apr 08 03:59	5°♍37'57	-0.7m
inferior conj	9102 May 22 04:40	4°♌46'32	3°18'27	evening max el	9103 Apr 20 00:41	21°♍25'52	19°26'28
minimum elong	9102 May 22 05:28	4°♌44'03	3°18'10	asc. node	9103 Apr 20 14:49	22°♍00'40	
min. Earth dist.	9102 May 24 02:46	2°♌25'10	0.65458 AU	retrograde	9103 Apr 27 04:21	25°♍29'17	
	9102 May 26 06:09	30°♍		evening set	9103 Apr 30 18:44	24°♍13'36	
morning rise	9102 May 27 20:46	28°♍28'08		inferior conj	9103 May 06 04:42	18°♍20'43	3°20'34
direct	9102 Jun 03 09:18	25°♍42'13		minimum elong	9103 May 06 04:17	18°♍22'05	3°20'21
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	9102 Jul 06 15:23	0°♏		desc. node	9103 May 25 00:20	12°♎16'21	
morning set	9102 Jul 22 09:30	27°♏22'58		morning max el	9103 May 30 02:12	16°♎45'03	25°46'14
	9102 Jul 23 17:59	0°♐			9103 Jun 10 02:11	0°♐	
max. Earth dist.	9102 Jul 26 16:52	5°♐51'17	1.33945 AU		9103 Jun 29 13:46	0°♑	
				morning set	9103 Jul 05 04:42	9°♑58'40	
superior conj	9102 Jul 30 22:43	14°♐35'01	0°02'26	max. Earth dist.	9103 Jul 08 22:42	16°♑59'19	1.35696 AU
minimum elong	9102 Jul 30 22:36	14°♐34'26	0°02'12				
behind sun begin	9102 Jul 30 16:58	14°♐04'56		superior conj	9103 Jul 14 15:56	28°♑12'46	-0°28'37
behind sun end	9102 Jul 31 04:15	15°♐03'58		minimum elong	9103 Jul 14 17:38	28°♑21'24	0°28'31
asc. node	9102 Jul 30 16:54	14°♐04'36			9103 Jul 15 13:09	0°♒	
evening rise	9102 Aug 07 06:56	0°♑07'02		asc. node	9103 Jul 17 13:54	4°♒08'34	
	9102 Aug 07 05:36	0°♑		evening rise	9103 Jul 22 13:59	14°♒26'31	
	9102 Aug 24 14:44	0°♓			9103 Jul 30 14:51	0°♑	
evening max el	9102 Aug 27 08:23	2°♓58'23	21°32'45	evening max el	9103 Aug 09 12:11	13°♑50'26	20°10'53
desc. node	9102 Sep 03 02:12	7°♓49'50		retrograde	9103 Aug 20 04:18	19°♑07'21	
retrograde	9102 Sep 08 15:23	9°♓04'13		desc. node	9103 Aug 20 23:21	19°♑05'42	
evening set	9102 Sep 11 06:30	8°♓48'28		evening set	9103 Aug 22 02:55	18°♑57'38	
inferior conj	9102 Sep 20 10:23	4°♓50'59	-4°43'23	inferior conj	9103 Aug 31 04:52	14°♑59'08	-3°04'30
minimum elong	9102 Sep 20 01:07	5°♓03'55	4°41'15	minimum elong	9103 Aug 30 20:39	15°♑11'17	3°01'44
min. Earth dist.	9102 Sep 20 09:54	4°♓51'39	0.54685 AU	min. Earth dist.	9103 Sep 01 19:35	14°♑01'49	0.54953 AU
morning rise	9102 Sep 28 20:41	1°♓00'52		morning rise	9103 Sep 08 13:20	10°♑49'12	
direct	9102 Oct 02 12:08	0°♓32'01		direct	9103 Sep 12 22:44	10°♑07'32	
morning max el	9102 Oct 14 22:48	6°♓26'06	22°12'12	morning max el	9103 Sep 26 11:58	16°♑44'40	23°58'15
asc. node	9102 Oct 26 16:49	22°♓00'14			9103 Oct 07 03:55	0°♔	
	9102 Oct 31 02:37	0°♕		asc. node	9103 Oct 13 13:45	10°♔52'12	
morning set	9102 Nov 05 11:19	10°♕51'45		morning set	9103 Oct 20 23:01	25°♔40'59	
					9103 Oct 22 23:15	0°♕	
superior conj	9102 Nov 12 13:37	25°♕57'55	1°40'01				
minimum elong	9102 Nov 12 14:15	26°♕01'13	1°40'13	superior conj	9103 Oct 27 20:34	10°♕38'45	1°40'05
	9102 Nov 14 11:45	0°♖		minimum elong	9103 Oct 27 20:00	10°♕35'37	1°40'15
max. Earth dist.	9102 Nov 16 06:02	3°♖38'16	1.34321 AU	max. Earth dist.	9103 Oct 30 04:51	15°♕42'11	1.32965 AU
evening rise	9102 Nov 20 17:02	12°♖31'17		evening rise	9103 Nov 04 08:18	26°♕24'24	
desc. node	9102 Nov 30 00:44	29°♖25'22			9103 Nov 06 03:38	0°♖	
	9102 Nov 30 08:57	0°♗		desc. node	9103 Nov 16 21:50	19°♖25'22	
	9102 Dec 21 12:42	0°♘			9103 Nov 23 17:32	0°♗	
evening max el	9102 Dec 25 15:56	4°♘18'55	26°59'37	evening max el	9103 Dec 08 04:21	17°♗39'15	27°27'00
retrograde	9103 Jan 07 22:41	11°♘39'15		retrograde	9103 Dec 21 19:31	24°♗58'58	
evening set	9103 Jan 14 14:02	9°♘04'13		evening set	9103 Dec 28 18:51	22°♗26'29	
min. Earth dist.	9103 Jan 18 13:31	5°♘11'35	0.65570 AU	min. Earth dist.	9104 Jan 01 13:38	19°♗06'06	0.63936 AU
inferior conj	9103 Jan 20 15:26	2°♘49'03	-0°40'44	inferior conj	9104 Jan 04 02:58	16°♗27'38	-1°48'06
minimum elong	9103 Jan 20 16:36	2°♘45'41	0°40'00	minimum elong	9104 Jan 04 06:22	16°♗18'49	1°46'27
asc. node	9103 Jan 22 16:11	0°♙34'13		asc. node	9104 Jan 09 13:15	11°♙44'34	
	9103 Jan 23 05:34	30°♙		morning rise	9104 Jan 10 19:41	11°♙06'49	
morning rise	9103 Jan 26 20:23	27°♙13'27		direct	9104 Jan 13 06:24	10°♙37'01	
direct	9103 Jan 29 14:31	26°♙32'15		morning max el	9104 Jan 19 18:03	13°♙59'05	17°49'45
morning max el	9103 Feb 05 00:44	29°♙56'48	18°07'28		9104 Jan 30 22:56	0°♙	



































































































































morning set	9104 Feb 05 10:50	9° \approx 19'27		morning set	9105 Jan 04 10:40	0° \approx	
desc. node	9104 Feb 12 21:13	21° \approx 52'40		9105 Jan 18 05:42	22° \approx 22'31		
	9104 Feb 17 19:37	0° \approx		9105 Jan 22 12:14	0° \approx		
superior conj	9104 Feb 18 08:41	0° \approx 53'07 -0°39'27		superior conj	9105 Jan 29 07:47	11° \approx 50'55 0°03'14	
minimum elong	9104 Feb 18 04:20	0° \approx 35'24 0°38'40		minimum elong	9105 Jan 29 08:07	11° \approx 52'18 0°03'24	
max. Earth dist.	9104 Feb 23 19:48	9° \approx 38'56 1.44779 AU		behind sun begin	9105 Jan 28 23:35	11° \approx 15'57	
evening rise	9104 Mar 05 02:02	25° \approx 38'20		behind sun end	9105 Jan 29 16:39	12° \approx 28'33	
	9104 Mar 07 22:31	0° \approx		desc. node	9105 Jan 29 18:10	12° \approx 34'58	
	9104 Mar 28 16:59	0° \approx		max. Earth dist.	9105 Feb 05 11:37	23° \approx 44'44 1.43415 AU	
evening max el	9104 Apr 02 03:07	5° \approx 05'35 20°25'53			9105 Feb 09 09:09	0° \approx	
asc. node	9104 Apr 06 11:57	8° \approx 39'08		evening rise	9105 Feb 12 17:01	5° \approx 13'53	
retrograde	9104 Apr 10 02:55	9° \approx 44'47			9105 Mar 01 07:00	0° \approx	
evening set	9104 Apr 14 02:22	8° \approx 13'43		evening max el	9105 Mar 15 23:59	18° \approx 46'20 21°37'10	
inferior conj	9104 Apr 19 09:50	2° \approx 07'27 3°10'09		asc. node	9105 Mar 24 09:03	24° \approx 04'53	
minimum elong	9104 Apr 19 08:26	2° \approx 12'12 3°09'50		retrograde	9105 Mar 25 01:01	24° \approx 07'07	
min. Earth dist.	9104 Apr 20 02:35	1° \approx 10'04 0.67867 AU		evening set	9105 Mar 29 10:36	22° \approx 20'49	
	9104 Apr 20 23:22	30° \approx 00'00		inferior conj	9105 Apr 03 17:49	16° \approx 03'34 2°49'06	
morning rise	9104 Apr 24 14:17	25° \approx 50'46		minimum elong	9105 Apr 03 15:48	16° \approx 10'36 2°48'37	
direct	9104 Apr 30 04:45	23° \approx 21'11		min. Earth dist.	9105 Apr 03 21:34	15° \approx 50'31 0.68397 AU	
desc. node	9104 May 10 21:17	29° \approx 30'49		morning rise	9105 Apr 08 20:51	9° \approx 50'36	
	9104 May 11 09:00	0° \approx		direct	9105 Apr 13 21:37	7° \approx 39'43	
morning max el	9104 May 11 11:30	0° \approx 06'18 24°21'01		morning max el	9105 Apr 23 21:42	13° \approx 35'00 22°51'07	
	9104 Jun 02 23:12	0° \approx		desc. node	9105 Apr 27 18:12	17° \approx 48'50	
morning set	9104 Jun 16 05:01	21° \approx 39'06			9105 May 07 03:07	0° \approx	
max. Earth dist.	9104 Jun 19 20:49	28° \approx 07'48 1.37804 AU			9105 May 26 21:12	0° \approx	
	9104 Jun 20 21:35	0° \approx		morning set	9105 May 28 05:06	2° \approx 11'07	
				max. Earth dist.	9105 Jun 01 17:25	9° \approx 46'36 1.40066 AU	
superior conj	9104 Jun 26 21:37	11° \approx 14'19 -1°01'02		superior conj	9105 Jun 09 11:43	23° \approx 30'07 -1°32'04	
minimum elong	9104 Jun 27 01:29	11° \approx 32'56 1°00'37		minimum elong	9105 Jun 09 17:24	23° \approx 56'05 1°31'36	
asc. node	9104 Jul 03 10:54	24° \approx 06'03			9105 Jun 13 00:08	0° \approx	
evening rise	9104 Jul 05 15:11	28° \approx 25'44		evening rise	9105 Jun 19 07:25	11° \approx 56'25	
	9104 Jul 06 10:14	0° \approx		asc. node	9105 Jun 20 07:53	13° \approx 52'46	
evening max el	9104 Jul 22 05:12	25° \approx 02'38 19°09'16			9105 Jun 29 09:06	0° \approx	
retrograde	9104 Jul 31 05:28	29° \approx 05'54		evening max el	9105 Jul 05 08:46	7° \approx 46'08 18°28'35	
evening set	9104 Aug 02 02:36	29° \approx 04'52		retrograde	9105 Jul 13 01:02	11° \approx 03'18	
desc. node	9104 Aug 06 20:26	27° \approx 05'34		evening set	9105 Jul 15 04:01	11° \approx 19'33	
inferior conj	9104 Aug 10 13:36	25° \approx 03'52 -1°08'41		inferior conj	9105 Jul 22 19:26	6° \approx 48'16 0°34'25	
minimum elong	9104 Aug 10 10:35	25° \approx 03'57 1°07'41		minimum elong	9105 Jul 22 20:39	6° \approx 45'51 0°33'45	
min. Earth dist.	9104 Aug 13 08:55	23° \approx 03'29 0.56117 AU		desc. node	9105 Jul 24 17:33	5° \approx 16'27	
morning rise	9104 Aug 18 15:37	20° \approx 47'48		min. Earth dist.	9105 Jul 26 03:45	4° \approx 10'18 0.57968 AU	
direct	9104 Aug 23 20:32	19° \approx 45'05		morning rise	9105 Jul 30 09:45	1° \approx 26'30	
morning max el	9104 Sep 07 00:38	26° \approx 05'17 25°39'54			9105 Aug 03 22:31	30° \approx 00'00	
	9104 Sep 09 23:04	0° \approx		direct	9105 Aug 05 09:05	29° \approx 54'38	
asc. node	9104 Sep 29 10:40	0° \approx 12'05			9105 Aug 06 19:54	0° \approx	
	9104 Sep 29 08:13	0° \approx		morning max el	9105 Aug 19 18:16	7° \approx 34'11 27°00'05	
morning set	9104 Oct 04 10:24	10° \approx 27'16			9105 Sep 05 14:21	0° \approx	
superior conj	9104 Oct 11 06:55	25° \approx 02'31 1°34'10		asc. node	9105 Sep 16 07:35	19° \approx 51'20	
minimum elong	9104 Oct 11 05:24	25° \approx 19'09 1°34'09		morning set	9105 Sep 18 19:45	25° \approx 04'27	
max. Earth dist.	9104 Oct 12 10:31	27° \approx 05'34 1.32058 AU			9105 Sep 21 02:49	0° \approx	
	9104 Oct 13 08:28	0° \approx		superior conj	9105 Sep 25 18:39	10° \approx 16'48 1°22'43	
evening rise	9104 Oct 18 08:11	10° \approx 40'17		minimum elong	9105 Sep 25 16:33	10° \approx 05'10 1°22'29	
	9104 Oct 28 09:43	0° \approx		max. Earth dist.	9105 Sep 25 19:48	10° \approx 23'10 1.31614 AU	
desc. node	9104 Nov 02 18:56	8° \approx 58'02		evening rise	9105 Oct 02 14:01	25° \approx 10'26	
	9104 Nov 19 02:07	0° \approx			9105 Oct 04 21:29	0° \approx	
evening max el	9104 Nov 19 13:27	0° \approx 27'05 27°24'14		desc. node	9105 Oct 20 16:02	27° \approx 51'22	
retrograde	9104 Dec 03 09:15	7° \approx 42'07			9105 Oct 22 03:49	0° \approx	
evening set	9104 Dec 10 11:06	5° \approx 21'12		evening max el	9105 Nov 01 16:42	12° \approx 30'01 26°47'53	
min. Earth dist.	9104 Dec 14 03:36	2° \approx 27'44 0.62024 AU		retrograde	9105 Nov 15 14:49	19° \approx 38'51	
	9104 Dec 16 19:57	30° \approx 00'00		evening set	9105 Nov 22 10:44	17° \approx 40'14	
inferior conj	9104 Dec 17 02:46	29° \approx 44'13 -2°59'40		min. Earth dist.	9105 Nov 26 06:54	15° \approx 03'03 0.59940 AU	
minimum elong	9104 Dec 17 08:35	29° \approx 30'51 2°57'17		inferior conj	9105 Nov 29 11:22	12° \approx 29'08 -4°10'00	
morning rise	9104 Dec 24 08:22	24° \approx 41'32		minimum elong	9105 Nov 29 18:50	12° \approx 41'05 4°07'35	
asc. node	9104 Dec 26 10:16	24° \approx 19'37		morning rise	9105 Dec 07 05:28	7° \approx 47'25	
direct	9104 Dec 26 14:10	24° \approx 19'29		direct	9105 Dec 09 09:43	7° \approx 29'43	
morning max el	9105 Jan 02 10:48	27° \approx 48'23 17°49'51					

asc. node	9105 Dec 13 07:17	8°♊29'28		direct	9106 Nov 21 12:56	19°♍57'10	
morning max el	9105 Dec 16 23:31	11°♊14'38	18°08'57	morning max el	9106 Nov 30 04:26	24°♍07'22	18°48'52
	9105 Dec 29 09:00	0°♊		asc. node	9106 Nov 30 04:19	24°♍07'04	
morning set	9106 Jan 01 16:04	6°♊08'20			9106 Dec 05 01:14	0°♊	
				morning set	9106 Dec 16 13:12	20°♊23'19	
superior conj	9106 Jan 11 07:11	23°♊57'18	0°39'28		9106 Dec 21 11:01	0°♊	
minimum elong	9106 Jan 11 09:59	24°♊09'51	0°39'18				
	9106 Jan 14 17:06	0°♊		superior conj	9106 Dec 25 02:23	6°♊59'36	1°07'07
desc. node	9106 Jan 16 15:05	3°♊19'02		minimum elong	9106 Dec 25 05:40	7°♊15'05	1°06'57
max. Earth dist.	9106 Jan 18 22:20	7°♊13'51	1.41555 AU	max. Earth dist.	9107 Jan 01 05:12	20°♊02'03	1.39421 AU
evening rise	9106 Jan 23 23:46	15°♊34'34		desc. node	9107 Jan 03 12:03	24°♊01'38	
	9106 Feb 02 05:32	0°♊		evening rise	9107 Jan 05 04:04	26°♊52'56	
	9106 Feb 24 08:03	0°♊			9107 Jan 07 00:33	0°♊	
evening max el	9106 Feb 26 16:28	2°♊29'32	22°55'53		9107 Jan 26 19:48	0°♊	
retrograde	9106 Mar 08 21:01	8°♊31'37		evening max el	9107 Feb 09 06:31	16°♊16'18	24°15'57
asc. node	9106 Mar 11 06:10	8°♊03'36		retrograde	9107 Feb 20 13:29	22°♊53'25	
evening set	9106 Mar 13 17:50	6°♊30'40		evening set	9107 Feb 25 22:31	20°♊38'52	
inferior conj	9106 Mar 19 02:41	0°♊05'43	2°18'35	asc. node	9107 Feb 26 03:18	20°♊28'31	
minimum elong	9106 Mar 19 00:27	0°♊13'27	2°17'58	min. Earth dist.	9107 Mar 02 14:33	15°♊17'36	0.68173 AU
min. Earth dist.	9106 Mar 18 18:19	0°♊34'42	0.68489 AU	inferior conj	9107 Mar 03 10:34	14°♊10'10	1°39'10
	9106 Mar 19 04:20	30°♊		minimum elong	9107 Mar 03 08:34	14°♊16'53	1°38'34
morning rise	9106 Mar 24 06:59	23°♊57'50		morning rise	9107 Mar 08 18:41	8°♊08'54	
direct	9106 Mar 28 17:59	22°♊08'34		direct	9107 Mar 12 16:34	6°♊41'38	
morning max el	9106 Apr 06 11:59	27°♊12'50	21°25'27	morning max el	9107 Mar 20 09:21	11°♊02'15	20°10'28
	9106 Apr 09 02:15	0°♊		desc. node	9107 Apr 01 12:00	26°♊29'48	
desc. node	9106 Apr 14 15:07	6°♊52'50			9107 Apr 03 21:56	0°♊	
	9106 Apr 30 16:21	0°♊		morning set	9107 Apr 17 02:38	19°♊54'31	
morning set	9106 May 08 02:02	11°♊28'56			9107 Apr 23 13:54	0°♊	
max. Earth dist.	9106 May 14 18:49	22°♊17'11	1.42209 AU	max. Earth dist.	9107 Apr 27 03:46	5°♊41'01	1.43964 AU
	9106 May 19 09:43	0°♊					
superior conj	9106 May 22 05:42	4°♊50'40	-1°57'29	superior conj	9107 May 02 23:37	15°♊07'27	-2°11'26
minimum elong	9106 May 22 11:25	5°♊15'24	1°57'18	minimum elong	9107 May 03 01:41	15°♊15'54	2°11'35
evening rise	9106 Jun 02 10:48	24°♊49'15			9107 May 11 20:35	0°♊	
	9106 Jun 05 07:20	0°♊		evening rise	9107 May 15 20:35	6°♊52'55	
asc. node	9106 Jun 07 04:56	3°♊24'18		asc. node	9107 May 25 02:00	22°♊34'21	
evening max el	9106 Jun 18 19:07	20°♊37'34	18°08'02		9107 May 30 01:21	0°♊	
retrograde	9106 Jun 25 14:34	24°♊05'03		evening max el	9107 Jun 02 08:27	3°♊51'27	18°06'44
evening set	9106 Jun 28 01:20	23°♊38'38		retrograde	9107 Jun 08 18:18	7°♊11'48	
inferior conj	9106 Jul 04 22:24	18°♊47'01	1°51'31	evening set	9107 Jun 11 12:42	6°♊33'11	
minimum elong	9106 Jul 05 01:17	18°♊40'22	1°50'23	inferior conj	9107 Jun 17 19:02	1°♊22'08	2°42'07
min. Earth dist.	9106 Jul 08 05:39	15°♊45'45	0.60183 AU	minimum elong	9107 Jun 17 21:41	1°♊15'09	2°41'17
morning rise	9106 Jul 11 22:22	12°♊57'10			9107 Jun 19 02:05	30°♊	
desc. node	9106 Jul 11 14:38	13°♊09'26		min. Earth dist.	9107 Jun 20 16:05	28°♊21'40	0.62427 AU
direct	9106 Jul 18 10:46	10°♊54'28		morning rise	9107 Jun 24 04:50	25°♊14'49	
morning max el	9106 Aug 01 18:39	18°♊49'56	27°46'30	desc. node	9107 Jun 28 11:42	23°♊06'16	
	9106 Aug 11 04:51	0°♊		direct	9107 Jun 30 22:39	22°♊47'06	
	9106 Aug 29 08:38	0°♊			9107 Jul 14 04:50	0°♊	
morning set	9106 Sep 03 01:21	9°♊27'39		morning max el	9107 Jul 15 00:53	0°♊49'11	27°54'41
asc. node	9106 Sep 03 04:32	9°♊44'12			9107 Aug 05 08:37	0°♊	
max. Earth dist.	9106 Sep 09 05:14	22°♊44'18	1.31645 AU	morning set	9107 Aug 18 01:08	23°♊31'06	
				asc. node	9107 Aug 21 01:29	29°♊45'28	
superior conj	9106 Sep 10 05:59	25°♊01'07	1°06'08		9107 Aug 21 04:14	0°♊	
minimum elong	9106 Sep 10 03:45	24°♊48'44	1°05'43	max. Earth dist.	9107 Aug 23 11:03	4°♊52'20	1.32156 AU
	9106 Sep 12 11:55	0°♊					
evening rise	9106 Sep 16 23:39	9°♊48'48		superior conj	9107 Aug 25 15:04	9°♊34'43	0°44'44
	9106 Sep 27 05:48	0°♊		minimum elong	9107 Aug 25 13:13	9°♊24'32	0°44'15
desc. node	9106 Oct 07 13:10	15°♊50'00		evening rise	9107 Sep 01 11:05	24°♊29'25	
evening max el	9106 Oct 14 12:15	23°♊42'13	25°39'08		9107 Sep 04 01:47	0°♊	
	9106 Oct 24 02:15	0°♊		desc. node	9107 Sep 22 03:57	0°♊	
retrograde	9106 Oct 28 10:14	0°♊43'57		evening max el	9107 Sep 24 10:19	2°♊32'48	
	9106 Nov 01 17:52	30°♊		retrograde	9107 Sep 26 00:51	4°♊10'11	24°06'52
evening set	9106 Nov 03 12:54	29°♊17'07		evening set	9107 Oct 09 17:20	11°♊01'27	
min. Earth dist.	9106 Nov 08 00:41	26°♊40'14	0.57879 AU		9107 Oct 14 14:21	10°♊09'16	
inferior conj	9106 Nov 11 01:26	24°♊33'06	-5°08'34	min. Earth dist.	9107 Oct 20 11:32	7°♊14'16	0.56114 AU
minimum elong	9106 Nov 11 07:58	24°♊21'36	5°07'13	inferior conj	9107 Oct 22 19:05	5°♊49'08	-5°38'23
morning rise	9106 Nov 19 05:23	20°♊13'50		minimum elong	9107 Oct 22 20:19	5°♊47'14	5°38'13
				morning rise	9107 Oct 31 04:20	1°♊50'39	

direct	9107 Nov 02 21:03	1°♍31'47		direct	9108 Oct 13 11:48	12°♊08'37	
morning max el	9107 Nov 12 22:01	6°♍16'25	19°51'15	morning max el	9108 Oct 25 02:23	17°♊35'47	21°15'42
asc. node	9107 Nov 17 01:19	10°♍57'42		asc. node	9108 Nov 02 22:18	28°♊45'29	
	9107 Nov 28 06:13	0°♊			9108 Nov 03 16:55	0°♍	
morning set	9107 Nov 30 17:32	4°♊57'19		morning set	9108 Nov 14 02:18	19°♍41'31	
					9108 Nov 19 00:08	0°♊	
superior conj	9107 Dec 08 12:31	20°♊44'11	1°26'02	superior conj	9108 Nov 21 09:14	4°♊57'55	1°37'00
minimum elong	9107 Dec 08 15:05	20°♊56'57	1°26'04	minimum elong	9108 Nov 21 10:36	5°♊05'00	1°37'11
	9107 Dec 13 06:51	0°♊			9108 Nov 25 21:51	14°♊09'23	1.35284 AU
max. Earth dist.	9107 Dec 14 11:35	2°♊15'24	1.37254 AU	max. Earth dist.	9108 Nov 30 00:22	22°♊05'59	
evening rise	9107 Dec 18 05:24	9°♊06'36		evening rise	9108 Dec 04 07:51	0°♊	
desc. node	9107 Dec 21 09:04	14°♊39'07		desc. node	9108 Dec 07 06:06	5°♊06'19	
	9107 Dec 30 18:41	0°♊			9108 Dec 23 13:47	0°♊	
	9108 Jan 22 17:39	0°♊			9109 Jan 04 09:05	13°♊50'02	26°32'28
evening max el	9108 Jan 22 19:51	0°♊05'22	25°30'29	evening max el	9109 Jan 17 08:16	21°♊07'12	
retrograde	9108 Feb 04 01:29	7°♊07'47		retrograde	9109 Jan 23 17:47	18°♊33'32	
evening set	9108 Feb 09 23:07	4°♊41'48		evening set	9109 Jan 27 20:20	14°♊21'46	0.66366 AU
asc. node	9108 Feb 13 00:25	1°♊32'49		min. Earth dist.	9109 Jan 29 15:40	12°♊12'02	-0°04'53
	9108 Feb 14 06:31	30°♊		inferior conj	9109 Jan 29 15:47	12°♊11'39	0°04'37
min. Earth dist.	9108 Feb 14 07:58	29°♊55'22	0.67462 AU	minimum elong	9109 Jan 29 15:47	12°♊11'39	0°04'37
inferior conj	9108 Feb 15 15:35	28°♊14'00	0°51'16	transit middle	9109 Jan 29 13:00	12°♊20'01	
minimum elong	9108 Feb 15 14:21	28°♊17'56	0°50'56	transit begin	9109 Jan 29 18:34	12°♊03'18	
morning rise	9108 Feb 21 06:00	22°♊21'07		transit end	9109 Jan 29 21:32	11°♊54'27	
direct	9108 Feb 24 15:53	21°♊14'17		asc. node	9109 Feb 04 14:44	6°♊29'38	
morning max el	9108 Mar 02 14:44	25°♊03'20	19°09'56	morning rise	9109 Feb 07 14:03	5°♊40'13	
	9108 Mar 06 21:56	0°♊		direct	9109 Feb 14 02:47	9°♊10'27	18°25'29
greatest brilliancy	9108 Mar 15 20:33	12°♊42'42	-0.7m	morning max el	9109 Feb 28 22:33	0°♊	
desc. node	9108 Mar 18 08:54	16°♊31'14			9109 Mar 05 05:47	6°♊49'55	
morning set	9108 Mar 26 04:19	28°♊31'56		desc. node	9109 Mar 06 04:29	8°♊20'11	
	9108 Mar 27 03:04	0°♊		morning set	9109 Mar 19 21:54	0°♊	
max. Earth dist.	9108 Apr 08 19:16	19°♊45'38	1.45127 AU				
superior conj	9108 Apr 11 18:13	24°♊25'37	-2°07'44	superior conj	9109 Mar 21 23:55	3°♊15'48	-1°43'49
minimum elong	9108 Apr 11 13:14	24°♊05'51	2°07'38	minimum elong	9109 Mar 21 14:24	2°♊38'32	1°42'58
	9108 Apr 15 06:19	0°♊		max. Earth dist.	9109 Mar 22 14:13	4°♊11'42	1.45571 AU
evening rise	9108 Apr 26 08:25	17°♊59'27		evening rise	9109 Apr 06 20:34	28°♊08'33	
	9108 May 03 15:57	0°♊			9109 Apr 08 00:50	0°♊	
asc. node	9108 May 10 23:05	11°♊15'42		greatest brilliancy	9109 Apr 16 15:38	13°♊32'06	-0.8m
evening max el	9108 May 15 21:31	17°♊19'20	18°23'55	asc. node	9109 Apr 27 20:11	29°♊19'04	
retrograde	9108 May 22 07:42	20°♊46'51			9109 Apr 28 10:50	0°♊	
evening set	9108 May 25 09:33	19°♊54'30		evening max el	9109 Apr 29 07:44	0°♊54'52	18°58'50
inferior conj	9108 May 31 05:11	14°♊25'47	3°10'26	retrograde	9109 May 06 02:57	4°♊42'17	
minimum elong	9108 May 31 06:44	14°♊21'14	3°09'59	evening set	9109 May 09 12:29	3°♊35'24	
min. Earth dist.	9108 Jun 02 11:57	11°♊46'07	0.64455 AU		9109 May 13 07:16	30°♊	
morning rise	9108 Jun 06 02:55	8°♊09'31		inferior conj	9109 May 15 01:04	27°♊50'46	3°21'03
direct	9108 Jun 12 18:54	5°♊27'09		minimum elong	9109 May 15 01:21	27°♊49'55	3°20'48
desc. node	9108 Jun 14 08:44	5°♊35'20		min. Earth dist.	9109 May 16 16:36	25°♊45'32	0.66118 AU
morning max el	9108 Jun 26 10:42	13°♊26'06	27°26'43	morning rise	9109 May 20 13:40	21°♊31'33	
	9108 Jul 09 18:43	0°♊		direct	9109 May 26 22:24	18°♊46'03	
	9108 Jul 27 23:12	0°♊		desc. node	9109 Jun 01 05:44	20°♊19'09	
morning set	9108 Jul 31 16:34	7°♊08'00		morning max el	9109 Jun 08 21:26	26°♊28'58	26°29'11
max. Earth dist.	9108 Aug 05 09:32	16°♊38'14	1.33154 AU		9109 Jun 12 03:37	0°♊	
asc. node	9108 Aug 06 22:26	19°♊50'53			9109 Jul 03 09:01	0°♊	
superior conj	9108 Aug 08 19:55	23°♊51'47	0°18'58	morning set	9109 Jul 14 20:24	20°♊09'51	
minimum elong	9108 Aug 08 18:59	23°♊46'50	0°18'36	max. Earth dist.	9109 Jul 18 21:37	27°♊58'00	1.34634 AU
	9108 Aug 11 16:32	0°♊			9109 Jul 19 22:15	0°♊	
evening rise	9108 Aug 15 22:25	9°♊06'32		superior conj	9109 Jul 23 18:11	7°♊46'12	-0°10'28
	9108 Aug 26 18:18	0°♊		minimum elong	9109 Jul 23 18:47	7°♊49'17	0°10'34
evening max el	9108 Sep 06 12:40	14°♊20'05	22°26'58	behind sun begin	9109 Jul 23 14:19	7°♊26'17	
desc. node	9108 Sep 10 07:29	17°♊31'46		behind sun end	9109 Jul 23 23:14	8°♊12'19	
retrograde	9108 Sep 19 12:22	20°♊48'37		asc. node	9109 Jul 24 19:23	9°♊56'36	
evening set	9108 Sep 22 21:15	20°♊23'35		evening rise	9109 Jul 31 07:41	23°♊34'31	
min. Earth dist.	9108 Sep 30 19:22	16°♊53'29	0.54959 AU		9109 Aug 03 10:58	0°♊	
inferior conj	9108 Oct 01 18:59	16°♊20'06	-5°19'53	evening max el	9109 Aug 19 08:59	24°♊49'46	20°55'39
minimum elong	9108 Oct 01 12:30	16°♊29'17	5°18'54		9109 Aug 27 05:23	0°♊	
morning rise	9108 Oct 10 05:32	12°♊32'37		desc. node	9109 Aug 28 04:37	0°♊16'18	



















































































































retrograde	9109 Aug 31 00:48	0° $\underline{2}$ 36'29		evening max el	9110 Aug 01 18:37	6° $\underline{0}$ 01'02	19°42'09
evening set	9109 Sep 02 06:23	0° $\underline{2}$ 24'37		retrograde	9110 Aug 11 17:24	10° $\underline{0}$ 56'08	
	9109 Sep 04 00:01	30° $\underline{8}$ $\underline{0}$		evening set	9110 Aug 13 13:49	10° $\underline{0}$ 46'41	
inferior conj	9109 Sep 11 11:23	26° $\underline{0}$ 28'09	-4°05'49	desc. node	9110 Aug 15 01:45	10° $\underline{0}$ 25'57	
minimum elong	9109 Sep 11 01:43	26° $\underline{0}$ 41'53	4°03'03	inferior conj	9110 Aug 22 10:36	6° $\underline{0}$ 44'03	-2°15'22
min. Earth dist.	9109 Sep 12 04:07	26° $\underline{0}$ 04'24	0.54672 AU	minimum elong	9110 Aug 22 04:27	6° $\underline{0}$ 53'37	2°13'12
morning rise	9109 Sep 19 21:15	22° $\underline{0}$ 31'58		min. Earth dist.	9110 Aug 24 15:30	5° $\underline{0}$ 21'49	0.55346 AU
direct	9109 Sep 23 19:44	21° $\underline{0}$ 58'44		morning rise	9110 Aug 30 16:57	2° $\underline{0}$ 19'57	
morning max el	9109 Oct 06 19:37	28° $\underline{0}$ 12'04	22°56'53	direct	9110 Sep 04 10:37	1° $\underline{0}$ 30'12	
	9109 Oct 08 15:05	0° $\underline{2}$		morning max el	9110 Sep 18 07:40	8° $\underline{0}$ 24'35	24°43'00
asc. node	9109 Oct 20 19:15	17° $\underline{2}$ 17'24			9110 Oct 04 04:41	0° $\underline{2}$	
	9109 Oct 27 09:40	0° $\underline{0}$		asc. node	9110 Oct 07 16:11	6° $\underline{2}$ 21'54	
morning set	9109 Oct 29 13:26	4° $\underline{0}$ 30'23		morning set	9110 Oct 14 01:09	19° $\underline{2}$ 18'16	
					9110 Oct 18 23:11	0° $\underline{0}$	
superior conj	9109 Nov 05 13:13	19° $\underline{0}$ 31'25	1°40'49	superior conj	9110 Oct 20 21:51	4° $\underline{0}$ 16'05	1°38'17
minimum elong	9109 Nov 05 13:19	19° $\underline{0}$ 31'55	1°41'02	minimum elong	9110 Oct 20 20:51	4° $\underline{0}$ 10'32	1°38'22
max. Earth dist.	9109 Nov 08 15:34	26° $\underline{0}$ 04'48	1.33682 AU	max. Earth dist.	9110 Oct 22 17:20	8° $\underline{0}$ 13'01	1.32519 AU
	9109 Nov 10 13:05	0° $\underline{2}$		evening rise	9110 Oct 28 04:30	19° $\underline{0}$ 45'42	
evening rise	9109 Nov 13 09:14	5° $\underline{2}$ 42'15			9110 Nov 02 09:24	0° $\underline{2}$	
desc. node	9109 Nov 24 03:09	25° $\underline{2}$ 18'02		desc. node	9110 Nov 11 00:15	15° $\underline{2}$ 07'08	
	9109 Nov 26 23:58	0° $\underline{2}$			9110 Nov 21 03:46	0° $\underline{2}$	
evening max el	9109 Dec 17 22:02	27° $\underline{2}$ 21'56	27°14'33	evening max el	9110 Nov 30 09:22	10° $\underline{2}$ 29'54	27°29'55
	9109 Dec 20 21:27	0° $\underline{2}$		retrograde	9110 Dec 14 03:20	17° $\underline{2}$ 48'25	
retrograde	9109 Dec 31 09:09	4° $\underline{2}$ 43'43		evening set	9110 Dec 21 04:17	15° $\underline{2}$ 19'50	
evening set	9110 Jan 07 04:23	2° $\underline{2}$ 08'30		min. Earth dist.	9110 Dec 24 21:42	12° $\underline{2}$ 11'32	0.63143 AU
	9110 Jan 09 14:42	30° $\underline{8}$ $\underline{2}$		inferior conj	9110 Dec 27 15:28	9° $\underline{2}$ 29'21	-2°18'14
min. Earth dist.	9110 Jan 11 01:34	28° $\underline{2}$ 30'05	0.64911 AU	minimum elong	9110 Dec 27 19:54	9° $\underline{2}$ 18'23	2°16'13
inferior conj	9110 Jan 13 08:32	25° $\underline{2}$ 59'17	-1°08'35	morning rise	9111 Jan 03 13:34	4° $\underline{2}$ 15'41	
minimum elong	9110 Jan 13 10:35	25° $\underline{2}$ 53'36	1°07'28	asc. node	9111 Jan 03 15:41	4° $\underline{2}$ 13'48	
asc. node	9110 Jan 16 18:37	22° $\underline{2}$ 31'00		direct	9111 Jan 05 21:45	3° $\underline{2}$ 49'42	
morning rise	9110 Jan 19 18:19	20° $\underline{2}$ 29'49		morning max el	9111 Jan 12 12:26	7° $\underline{2}$ 14'00	17°47'33
direct	9110 Jan 22 08:55	19° $\underline{2}$ 54'05			9111 Jan 27 12:24	0° $\underline{2}$	
morning max el	9110 Jan 28 19:00	23° $\underline{2}$ 16'34	17°57'49	morning set	9111 Jan 28 17:21	2° $\underline{2}$ 05'58	
	9110 Feb 03 04:55	0° $\underline{2}$		desc. node	9111 Feb 06 23:35	17° $\underline{2}$ 59'58	
morning set	9110 Feb 15 10:07	19° $\underline{2}$ 35'58		superior conj	9111 Feb 09 19:43	22° $\underline{2}$ 44'00	-0°20'51
desc. node	9110 Feb 20 02:40	27° $\underline{2}$ 20'50		minimum elong	9111 Feb 09 17:33	22° $\underline{2}$ 35'01	0°20'21
	9110 Feb 21 17:32	0° $\underline{2}$			9111 Feb 14 06:25	0° $\underline{2}$	
superior conj	9110 Mar 01 11:22	12° $\underline{2}$ 28'55	-1°04'49	max. Earth dist.	9111 Feb 16 03:23	3° $\underline{2}$ 00'40	1.44266 AU
minimum elong	9110 Mar 01 04:03	11° $\underline{2}$ 59'46	1°03'46	evening rise	9111 Feb 25 01:17	16° $\underline{2}$ 59'09	
max. Earth dist.	9110 Mar 05 09:36	18° $\underline{2}$ 41'28	1.45271 AU		9111 Mar 05 15:21	0° $\underline{2}$	
	9110 Mar 12 15:34	0° $\underline{2}$		evening max el	9111 Mar 26 13:25	28° $\underline{2}$ 14'49	20°55'03
evening rise	9110 Mar 17 13:54	7° $\underline{2}$ 36'48			9111 Mar 28 09:56	0° $\underline{2}$	
greatest brilliancy	9110 Mar 31 20:39	29° $\underline{2}$ 15'37	-0.6m	asc. node	9111 Apr 01 14:23	2° $\underline{2}$ 42'38	
	9110 Apr 01 08:45	0° $\underline{2}$		retrograde	9111 Apr 03 23:29	3° $\underline{2}$ 11'06	
evening max el	9110 Apr 12 13:17	14° $\underline{2}$ 33'49	19°50'02	evening set	9111 Apr 08 03:05	1° $\underline{2}$ 33'42	
asc. node	9110 Apr 14 17:16	16° $\underline{2}$ 32'39			9111 Apr 09 19:06	30° $\underline{8}$ $\underline{0}$	
retrograde	9110 Apr 20 00:57	18° $\underline{2}$ 51'50		inferior conj	9111 Apr 13 10:12	25° $\underline{2}$ 22'42	3°02'26
evening set	9110 Apr 23 18:59	17° $\underline{2}$ 29'50		minimum elong	9111 Apr 13 08:30	25° $\underline{2}$ 28'35	3°02'03
inferior conj	9110 Apr 29 03:35	11° $\underline{2}$ 31'03	3°17'33	min. Earth dist.	9111 Apr 13 21:24	24° $\underline{2}$ 44'02	0.68149 AU
minimum elong	9110 Apr 29 02:43	11° $\underline{2}$ 33'58	3°17'18	morning rise	9111 Apr 18 13:43	19° $\underline{2}$ 07'25	
min. Earth dist.	9110 Apr 30 04:26	10° $\underline{2}$ 07'45	0.67358 AU	direct	9111 Apr 23 22:34	16° $\underline{2}$ 44'56	
morning rise	9110 May 04 10:08	5° $\underline{2}$ 12'40		morning max el	9111 May 04 16:17	23° $\underline{2}$ 09'26	23°42'44
direct	9110 May 10 07:58	2° $\underline{2}$ 34'36		desc. node	9111 May 05 23:37	24° $\underline{2}$ 31'04	
desc. node	9110 May 19 02:42	6° $\underline{2}$ 46'50			9111 May 10 16:57	0° $\underline{2}$	
morning max el	9110 May 22 07:07	9° $\underline{2}$ 45'17	25°11'06		9111 May 31 15:44	0° $\underline{2}$	
	9110 Jun 07 07:06	0° $\underline{2}$		morning set	9111 Jun 08 22:52	13° $\underline{2}$ 37'11	
	9110 Jun 25 23:51	0° $\underline{2}$		max. Earth dist.	9111 Jun 12 19:32	20° $\underline{2}$ 18'20	1.38770 AU
morning set	9110 Jun 27 08:13	2° $\underline{2}$ 23'59			9111 Jun 18 04:27	0° $\underline{2}$	
max. Earth dist.	9110 Jun 30 23:09	9° $\underline{2}$ 00'59	1.36554 AU	superior conj	9111 Jun 20 06:33	3° $\underline{2}$ 53'35	-1°14'33
superior conj	9110 Jul 07 06:54	21° $\underline{2}$ 09'31	-0°42'20	minimum elong	9111 Jun 20 11:18	4° $\underline{2}$ 15'55	1°14'06
minimum elong	9110 Jul 07 09:31	21° $\underline{2}$ 22'28	0°42'06	asc. node	9111 Jun 28 13:19	19° $\underline{2}$ 51'38	
asc. node	9110 Jul 11 16:20	29° $\underline{2}$ 58'03		evening rise	9111 Jun 29 10:22	21° $\underline{2}$ 34'19	
	9110 Jul 11 16:43	0° $\underline{2}$			9111 Jul 03 19:41	0° $\underline{2}$	
evening rise	9110 Jul 15 12:33	7° $\underline{2}$ 45'59		evening max el	9111 Jul 15 16:40	17° $\underline{2}$ 57'14	18°49'23
	9110 Jul 27 20:06	0° $\underline{2}$					


































































































































retrograde	9111 Jul 24 01:43	22°06'54		retrograde	9112 Jul 05 05:30	4°09'43	
evening set	9111 Jul 26 01:04	21°05'56		evening set	9112 Jul 07 11:49	3°09'10	
desc. node	9111 Aug 01 22:51	18°02'54			9112 Jul 13 18:32	30°R☿	
inferior conj	9111 Aug 03 03:53	17°03'410	-0°22'11	inferior conj	9112 Jul 14 19:01	29°☿08'46	1°10'30
minimum elong	9111 Aug 03 02:58	17°03'549	0°22'02	minimum elong	9112 Jul 14 21:15	29°☿04'03	1°09'30
min. Earth dist.	9111 Aug 06 06:47	15°01'947	0.56851 AU	min. Earth dist.	9112 Jul 18 04:09	26°☿18'19	0.58893 AU
morning rise	9111 Aug 11 01:31	12°03'314		desc. node	9112 Jul 18 19:56	25°☿47'14	
direct	9111 Aug 16 14:59	11°01'8'38		morning rise	9112 Jul 22 03:25	23°☿33'55	
morning max el	9111 Aug 30 21:43	18°04'43'41	26°17'24	direct	9112 Jul 28 09:06	21°☿49'02	
	9111 Sep 09 09:20	0°☿		morning max el	9112 Aug 11 18:15	29°☿35'37	27°24'26
asc. node	9111 Sep 24 13:06	25°☿50'36			9112 Aug 12 04:06	0°☿	
	9111 Sep 26 14:02	0°☿			9112 Sep 02 08:02	0°☿	
morning set	9111 Sep 28 11:51	4°☿00'47		asc. node	9112 Sep 10 10:03	15°☿36'45	
				morning set	9112 Sep 11 19:54	18°☿33'18	
superior conj	9111 Oct 05 09:01	19°☿05'24	1°29'58		9112 Sep 17 02:41	0°☿	
minimum elong	9111 Oct 05 07:12	18°☿55'21	1°29'51	superior conj	9112 Sep 18 20:50	3°☿53'40	1°16'18
max. Earth dist.	9111 Oct 06 01:00	20°☿34'02	1.31817 AU	minimum elong	9112 Sep 18 18:37	3°☿41'23	1°15'58
	9111 Oct 10 08:28	0°☿		max. Earth dist.	9112 Sep 18 11:05	2°☿59'35	1.31575 AU
evening rise	9111 Oct 12 07:14	4°☿08'28		evening rise	9112 Sep 25 15:00	18°☿43'31	
	9111 Oct 26 02:38	0°☿			9112 Oct 01 03:06	0°☿	
desc. node	9111 Oct 28 21:21	4°☿24'19		desc. node	9112 Oct 14 18:28	22°☿57'01	
evening max el	9111 Nov 12 16:33	23°☿00'27	27°13'05		9112 Oct 20 05:56	0°☿	
	9111 Nov 24 09:38	0°☿		evening max el	9112 Oct 24 16:45	4°☿42'31	26°22'13
retrograde	9111 Nov 26 13:29	0°☿12'06		retrograde	9112 Nov 07 14:42	11°☿47'55	
	9111 Nov 28 16:29	30°☿☿		evening set	9112 Nov 14 05:05	10°☿01'46	
evening set	9111 Dec 03 13:58	27°☿59'45		min. Earth dist.	9112 Nov 18 06:01	7°☿27'11	0.59048 AU
min. Earth dist.	9111 Dec 07 07:13	25°☿14'37	0.61144 AU	inferior conj	9112 Nov 21 10:22	5°☿02'41	-4°37'07
inferior conj	9111 Dec 10 09:14	22°☿33'36	-3°30'13	minimum elong	9112 Nov 21 17:54	4°☿48'23	4°35'03
minimum elong	9111 Dec 10 15:56	22°☿19'01	3°27'41	morning rise	9112 Nov 29 09:08	0°☿30'34	
morning rise	9111 Dec 17 20:15	17°☿39'10		direct	9112 Dec 01 14:19	0°☿13'34	
direct	9111 Dec 20 00:59	17°☿19'17		asc. node	9112 Dec 07 09:47	2°☿17'59	
asc. node	9111 Dec 21 12:44	17°☿28'45		morning max el	9112 Dec 09 13:43	4°☿07'40	18°23'21
morning max el	9111 Dec 27 03:49	20°☿53'59	17°55'34	morning set	9112 Dec 25 11:00	29°☿29'28	
	9112 Jan 03 00:05	0°☿			9112 Dec 25 17:23	0°☿	
morning set	9112 Jan 11 19:31	15°☿29'16		superior conj	9113 Jan 03 14:01	16°☿44'06	0°52'16
	9112 Jan 19 20:10	0°☿		minimum elong	9113 Jan 03 17:12	16°☿58'46	0°52'04
superior conj	9112 Jan 22 05:29	4°☿11'35	0°19'36	desc. node	9113 Jan 10 17:29	29°☿27'18	
minimum elong	9112 Jan 22 07:09	4°☿18'49	0°19'34	max. Earth dist.	9113 Jan 11 02:49	0°☿07'26	1.40666 AU
desc. node	9112 Jan 24 20:30	8°☿43'10			9113 Jan 11 01:05	0°☿	
max. Earth dist.	9112 Jan 29 17:32	16°☿53'44	1.42671 AU	evening rise	9113 Jan 15 13:29	7°☿36'02	
evening rise	9112 Feb 04 21:48	26°☿51'17			9113 Jan 29 23:52	0°☿	
	9112 Feb 06 21:54	0°☿		evening max el	9113 Feb 18 23:29	25°☿41'08	23°30'05
	9112 Feb 27 10:39	0°☿			9113 Feb 24 02:08	0°☿	
evening max el	9112 Mar 08 08:21	11°☿56'50	22°10'08	retrograde	9113 Mar 01 15:23	1°☿59'06	
retrograde	9112 Mar 17 20:45	17°☿34'57		asc. node	9113 Mar 05 08:40	0°☿52'00	
asc. node	9112 Mar 18 11:31	17°☿33'03		evening set	9113 Mar 06 17:26	29°☿51'52	
evening set	9112 Mar 22 11:04	15°☿42'14			9113 Mar 06 13:32	30°☿☿	
inferior conj	9112 Mar 27 18:48	9°☿21'30	2°37'16	min. Earth dist.	9113 Mar 11 14:01	24°☿10'52	0.68406 AU
minimum elong	9112 Mar 27 16:38	9°☿29'02	2°36'43	inferior conj	9113 Mar 12 03:28	23°☿24'43	2°02'56
min. Earth dist.	9112 Mar 27 17:18	9°☿26'45	0.68491 AU	minimum elong	9113 Mar 12 01:16	23°☿32'15	2°02'18
morning rise	9112 Apr 01 22:03	3°☿10'47		morning rise	9113 Mar 17 09:06	17°☿19'43	
direct	9112 Apr 06 17:01	1°☿08'50		direct	9113 Mar 21 14:22	15°☿40'05	
morning max el	9112 Apr 16 03:44	6°☿41'20	22°13'47	morning max el	9113 Mar 29 20:55	20°☿24'20	20°52'03
desc. node	9112 Apr 21 20:32	13°☿10'15			9113 Apr 06 21:25	0°☿	
	9112 May 04 03:13	0°☿		desc. node	9113 Apr 08 17:27	2°☿29'24	
morning set	9112 May 19 11:24	23°☿37'11			9113 Apr 27 08:00	0°☿	
	9112 May 23 08:40	0°☿		morning set	9113 Apr 28 22:00	2°☿27'42	
max. Earth dist.	9112 May 24 18:07	2°☿19'53	1.41018 AU	max. Earth dist.	9113 May 06 22:58	15°☿15'02	1.43016 AU
superior conj	9112 Jun 01 12:43	15°☿47'31	-1°43'50	superior conj	9113 May 13 20:44	26°☿41'00	-2°05'12
minimum elong	9112 Jun 01 18:45	16°☿14'25	1°43'27	minimum elong	9113 May 14 01:27	27°☿00'54	2°05'10
	9112 Jun 09 07:24	0°☿			9113 May 15 19:37	0°☿	
evening rise	9112 Jun 11 21:41	4°☿50'31		evening rise	9113 May 25 18:12	17°☿24'01	
asc. node	9112 Jun 14 10:20	9°☿32'46		asc. node	9113 Jun 01 07:23	28°☿56'06	
	9112 Jun 27 11:21	0°☿			9113 Jun 01 22:23	0°☿	
evening max el	9112 Jun 27 23:36	0°☿31'06	18°17'20				

evening max el	9113 Jun 11 11:35	13°  32'55	18°05'08	retrograde	9114 Jun 01 10:10	0°  15'59	
retrograde	9113 Jun 18 01:50	16°  55'59			9114 Jun 03 03:46	30°  II	
evening set	9113 Jun 20 15:46	16°  24'44		evening set	9114 Jun 04 07:38	29°  II31'50	
inferior conj	9113 Jun 27 06:04	11°  24'29	2°16'00	inferior conj	9114 Jun 10 08:58	24°  II13'21	2°56'33
minimum elong	9113 Jun 27 09:00	11°  17'16	2°14'57	minimum elong	9114 Jun 10 11:13	24°  II07'09	2°55'52
min. Earth dist.	9113 Jun 30 09:41	8°  20'43	0.61145 AU	min. Earth dist.	9114 Jun 13 00:21	21°  II19'15	0.63319 AU
morning rise	9113 Jul 03 23:47	5°  25'40		morning rise	9114 Jun 16 13:17	18°  II01'07	
desc. node	9113 Jul 05 17:02	4°  25'08		desc. node	9114 Jun 22 14:05	15°  II27'06	
direct	9113 Jul 10 15:12	3°  11'26		direct	9114 Jun 23 07:08	15°  II25'28	
morning max el	9113 Jul 24 21:38	11°  11'20	27°54'45	morning max el	9114 Jul 07 05:47	23°  II28'36	27°46'54
	9113 Aug 08 15:29	0°  Ω			9114 Jul 13 01:21	0°  Ω	
	9113 Aug 25 14:10	0°  ♍			9114 Aug 01 23:03	0°  Ω	
morning set	9113 Aug 26 23:20	2°  ♍49'29		morning set	9114 Aug 10 19:56	16°  Ω43'18	
asc. node	9113 Aug 28 06:58	5°  ♍34'02		asc. node	9114 Aug 15 03:54	25°  Ω38'03	
max. Earth dist.	9113 Sep 01 19:35	15°  ♍17'23	1.31803 AU	max. Earth dist.	9114 Aug 15 22:33	27°  Ω16'40	1.32517 AU
					9114 Aug 17 05:10	0°  ♍	
superior conj	9113 Sep 03 07:26	18°  ♍34'21	0°57'37				
minimum elong	9113 Sep 03 05:17	18°  ♍22'32	0°57'10	superior conj	9114 Aug 18 15:00	3°  ♍02'17	0°34'19
	9113 Sep 08 11:58	0°  ♌		minimum elong	9114 Aug 18 13:28	2°  ♍53'57	0°33'53
evening rise	9113 Sep 10 01:38	3°  ♌23'42		evening rise	9114 Aug 25 13:15	18°  ♍03'46	
	9113 Sep 24 04:01	0°  ♌			9114 Aug 31 08:59	0°  ♌	
desc. node	9113 Oct 01 15:37	10°  ♌26'46		evening max el	9114 Sep 17 19:53	25°  ♌49'43	23°24'16
evening max el	9113 Oct 06 08:42	15°  ♌33'20	25°01'50	desc. node	9114 Sep 18 12:45	26°  ♌29'35	
retrograde	9113 Oct 20 05:22	22°  ♌32'14			9114 Sep 23 01:49	0°  ♌	
evening set	9113 Oct 25 20:54	21°  ♌20'01		retrograde	9114 Oct 01 07:28	2°  ♌33'44	
min. Earth dist.	9113 Oct 30 20:15	18°  ♌37'48	0.57074 AU	evening set	9114 Oct 05 12:48	1°  ♌54'51	
inferior conj	9113 Nov 02 15:46	16°  ♌46'35	-5°25'55		9114 Oct 10 01:01	30°   ♌	
minimum elong	9113 Nov 02 20:38	16°  ♌38'32	5°25'11	min. Earth dist.	9114 Oct 12 05:42	28°  ♌46'28	0.55533 AU
morning rise	9113 Nov 10 22:40	12°  ♌37'09		inferior conj	9114 Oct 14 01:09	27°  ♌42'32	-5°37'24
direct	9113 Nov 13 09:18	12°  ♌20'02		minimum elong	9114 Oct 13 23:03	27°  ♌45'38	5°37'11
morning max el	9113 Nov 22 14:18	16°  ♌43'32	19°12'40	morning rise	9114 Oct 22 11:18	23°  ♌50'14	
asc. node	9113 Nov 24 06:48	18°  ♌28'47		direct	9114 Oct 25 09:07	23°  ♌29'41	
	9113 Dec 02 03:59	0°  ♌		morning max el	9114 Nov 05 02:22	28°  ♌32'09	20°24'32
morning set	9113 Dec 09 11:33	13°  ♌53'23			9114 Nov 06 13:24	0°  ♌	
				asc. node	9114 Nov 11 03:47	5°  ♌45'39	
superior conj	9113 Dec 17 16:10	0°  ♌06'15	1°16'09	morning set	9114 Nov 23 18:00	28°  ♌32'17	
minimum elong	9113 Dec 17 19:14	0°  ♌21'05	1°16'04		9114 Nov 24 11:05	0°  ♌	
	9113 Dec 17 14:53	0°  ♌					
max. Earth dist.	9113 Dec 24 08:34	12°  ♌37'45	1.38484 AU	superior conj	9114 Dec 01 07:13	14°  ♌04'28	1°31'36
evening rise	9113 Dec 28 02:58	19°  ♌18'25		minimum elong	9114 Dec 01 09:19	14°  ♌15'02	1°31'42
desc. node	9113 Dec 28 14:28	20°  ♌08'12		max. Earth dist.	9114 Dec 06 15:36	24°  ♌38'28	1.36383 AU
	9114 Jan 03 11:54	0°  ♌			9114 Dec 09 11:45	0°  ♌	
	9114 Jan 24 04:52	0°  ♌		evening rise	9114 Dec 10 12:16	1°  ♌52'57	
evening max el	9114 Feb 01 12:50	9°  ♌28'23	24°48'44	desc. node	9114 Dec 15 11:28	10°  ♌41'55	
retrograde	9114 Feb 13 06:14	16°  ♌18'25			9114 Dec 27 13:57	0°  ♌	
evening set	9114 Feb 18 20:36	13°  ♌58'29		evening max el	9115 Jan 15 02:04	23°  ♌16'24	25°58'56
asc. node	9114 Feb 20 05:48	12°  ♌39'40			9115 Jan 24 21:07	0°  ♌	
min. Earth dist.	9114 Feb 23 09:21	8°  ♌52'00	0.67912 AU	retrograde	9115 Jan 27 16:11	0°  ♌26'51	
inferior conj	9114 Feb 24 10:21	7°  ♌29'16	1°19'54		9115 Jan 30 07:36	30°   ♌	
minimum elong	9114 Feb 24 08:37	7°  ♌35'01	1°19'22	evening set	9115 Feb 02 18:52	27°  ♌57'14	
morning rise	9114 Mar 01 20:52	1°  ♌31'21		min. Earth dist.	9115 Feb 07 01:00	23°  ♌25'19	0.67035 AU
direct	9114 Mar 05 13:22	0°  ♌13'16		asc. node	9115 Feb 07 02:56	23°  ♌19'23	
morning max el	9114 Mar 12 21:47	4°  ♌19'19	19°42'49	inferior conj	9115 Feb 08 13:31	21°  ♌31'13	0°28'26
greatest brilliancy	9114 Mar 25 15:34	20°  ♌53'56	-0.6m	minimum elong	9115 Feb 08 12:48	21°  ♌33'30	0°28'18
desc. node	9114 Mar 26 14:22	22°  ♌17'46		morning rise	9115 Feb 14 07:19	15°  ♌42'16	
	9114 Mar 31 17:53	0°  ♌		direct	9115 Feb 17 12:27	14°  ♌43'16	
morning set	9114 Apr 07 19:53	10°  ♌49'14		morning max el	9115 Feb 24 06:08	18°  ♌23'11	18°48'55
max. Earth dist.	9114 Apr 19 10:28	28°  ♌56'30	1.44530 AU		9115 Mar 05 07:07	0°  ♌	
	9114 Apr 20 02:28	0°  ♌		desc. node	9115 Mar 13 11:15	12°  ♌27'12	
				morning set	9115 Mar 18 05:06	19°  ♌50'57	
superior conj	9114 Apr 24 04:10	6°  ♌31'01	-2°12'19		9115 Mar 24 17:04	0°  ♌	
minimum elong	9114 Apr 24 03:26	6°  ♌28'02	2°12'28	max. Earth dist.	9115 Apr 02 03:18	13°  ♌10'34	1.45402 AU
evening rise	9114 May 07 19:07	29°  ♌04'19					
	9114 May 08 08:17	0°  ♌		superior conj	9115 Apr 03 15:20	15°  ♌31'55	-1°59'56
asc. node	9114 May 19 04:28	17°  ♌55'23		minimum elong	9115 Apr 03 07:40	15°  ♌01'48	1°59'32
evening max el	9114 May 26 01:10	26°  ♌54'03	18°11'53		9115 Apr 12 18:53	0°  ♌	
	9114 May 30 16:28	0°  ♌		evening rise	9115 Apr 18 20:40	9°  ♌44'51	

greatest brilliancy	9115 Apr 24 22:00	19°♄31'19	-0.9m	minimum elong	9116 Mar 12 11:47	23°♄49'04	1°27'29
	9115 May 01 13:58	0°♄		max. Earth dist.	9116 Mar 14 23:13	27°♄42'13	1.45540 AU
asc. node	9115 May 06 01:33	6°♄21'55			9116 Mar 16 10:26	0°♄	
evening max el	9115 May 09 13:20	10°♄26'00	18°36'47	evening rise	9116 Mar 28 23:45	19°♄33'50	
retrograde	9115 May 16 02:18	14°♄00'17			9116 Apr 04 17:00	0°♄	
evening set	9115 May 19 07:23	13°♄01'49		greatest brilliancy	9116 Apr 09 21:05	7°♄55'34	-0.7m
inferior conj	9115 May 24 23:38	7°♄26'26	3°16'49	asc. node	9116 Apr 21 22:38	24°♄05'49	
minimum elong	9115 May 25 00:38	7°♄23'22	3°16'29	evening max el	9116 Apr 21 21:47	24°♄03'41	19°18'44
min. Earth dist.	9115 May 27 00:00	4°♄59'59	0.65212 AU	retrograde	9116 Apr 28 22:57	28°♄02'30	
morning rise	9115 May 30 17:06	1°♄08'32		evening set	9116 May 02 12:06	26°♄49'02	
	9115 Jun 01 05:35	30°♄		inferior conj	9116 May 07 22:38	20°♄58'10	3°21'04
direct	9115 Jun 06 06:45	28°♄23'09		minimum elong	9116 May 07 22:24	20°♄58'57	3°20'52
desc. node	9115 Jun 09 11:06	28°♄56'39		min. Earth dist.	9116 May 09 07:46	19°♄10'25	0.66707 AU
	9115 Jun 11 19:59	0°♄		morning rise	9116 May 13 08:19	14°♄39'12	
morning max el	9115 Jun 19 15:59	6°♄16'55	27°05'20	direct	9116 May 19 12:50	11°♄55'52	
	9115 Jul 07 20:35	0°♄		desc. node	9116 May 26 08:06	14°♄28'17	
morning set	9115 Jul 25 06:50	0°♄06'17		morning max el	9116 Jun 01 02:15	19°♄26'05	25°57'53
	9115 Jul 25 05:32	0°♄			9116 Jun 10 01:53	0°♄	
max. Earth dist.	9115 Jul 29 16:33	8°♄49'51	1.33724 AU		9116 Jun 29 22:39	0°♄	
asc. node	9115 Aug 02 00:51	15°♄44'06		morning set	9116 Jul 07 04:22	12°♄48'41	
				max. Earth dist.	9116 Jul 11 00:00	20°♄00'24	1.35407 AU
superior conj	9115 Aug 02 17:21	17°♄10'42	0°06'54				
minimum elong	9115 Aug 02 16:59	17°♄08'50	0°06'38	superior conj	9116 Jul 16 11:55	0°♄52'38	-0°23'47
behind sun begin	9115 Aug 02 11:50	16°♄41'45		minimum elong	9116 Jul 16 13:19	0°♄59'47	0°23'44
behind sun end	9115 Aug 02 22:09	17°♄35'59			9116 Jul 16 01:30	0°♄	
	9115 Aug 08 18:06	0°♄		asc. node	9116 Jul 18 21:47	5°♄48'21	
evening rise	9115 Aug 09 23:54	2°♄37'38		evening rise	9116 Jul 24 07:34	16°♄59'20	
	9115 Aug 25 05:52	0°♄			9116 Jul 30 21:53	0°♄	
evening max el	9115 Aug 30 10:30	6°♄04'46	21°46'25	evening max el	9116 Aug 11 12:12	16°♄50'12	20°21'52
desc. node	9115 Sep 05 09:52	10°♄35'25		retrograde	9116 Aug 22 10:36	22°♄15'07	
retrograde	9115 Sep 11 22:11	12°♄16'50		desc. node	9116 Aug 22 07:01	22°♄15'03	
evening set	9115 Sep 14 17:31	11°♄59'08		evening set	9116 Aug 24 10:29	22°♄05'04	
inferior conj	9115 Sep 23 20:15	8°♄00'35	-4°54'45	inferior conj	9116 Sep 02 13:40	18°♄07'26	-3°21'24
minimum elong	9115 Sep 23 11:29	8°♄12'50	4°52'53	minimum elong	9116 Sep 02 04:54	18°♄20'15	3°18'33
min. Earth dist.	9115 Sep 23 13:39	8°♄09'48	0.54727 AU	min. Earth dist.	9116 Sep 03 22:53	17°♄18'56	0.54845 AU
morning rise	9115 Oct 02 06:39	4°♄11'52		morning rise	9116 Sep 10 22:38	14°♄01'49	
direct	9115 Oct 05 19:46	3°♄44'21		direct	9116 Sep 15 05:06	13°♄22'38	
morning max el	9115 Oct 18 01:20	9°♄31'22	21°57'06	morning max el	9116 Sep 28 15:18	19°♄53'40	23°42'26
asc. node	9115 Oct 29 00:44	23°♄54'01			9116 Oct 07 03:26	0°♄	
	9115 Nov 01 11:44	0°♄		asc. node	9116 Oct 14 21:40	12°♄41'12	
morning set	9115 Nov 08 04:01	13°♄19'34		morning set	9116 Oct 22 15:37	28°♄09'05	
					9116 Oct 23 12:25	0°♄	
superior conj	9115 Nov 15 07:23	28°♄27'55	1°39'26				
minimum elong	9115 Nov 15 08:12	28°♄32'14	1°39'38	superior conj	9116 Oct 29 13:37	13°♄07'11	1°40'29
	9115 Nov 16 00:56	0°♄		minimum elong	9116 Oct 29 13:13	13°♄05'00	1°40'39
max. Earth dist.	9115 Nov 19 05:00	6°♄32'23	1.34559 AU	max. Earth dist.	9116 Nov 01 02:36	18°♄34'26	1.33134 AU
evening rise	9115 Nov 23 13:40	15°♄09'57		evening rise	9116 Nov 06 03:20	28°♄58'57	
	9115 Dec 01 17:33	0°♄			9116 Nov 06 15:33	0°♄	
desc. node	9115 Dec 02 08:30	1°♄03'44		desc. node	9116 Nov 18 05:32	21°♄07'07	
	9115 Dec 22 05:28	0°♄			9116 Nov 23 20:37	0°♄	
evening max el	9115 Dec 28 15:35	6°♄58'27	26°53'17	evening max el	9116 Dec 10 04:07	20°♄22'05	27°24'39
retrograde	9116 Jan 10 20:27	14°♄17'57		retrograde	9116 Dec 23 18:18	27°♄42'29	
evening set	9116 Jan 17 10:23	11°♄43'08		evening set	9116 Dec 30 16:47	25°♄08'55	
min. Earth dist.	9116 Jan 21 10:40	7°♄45'36	0.65790 AU	min. Earth dist.	9117 Jan 03 12:06	21°♄44'07	0.64201 AU
inferior conj	9116 Jan 23 10:52	5°♄26'14	-0°31'02	inferior conj	9117 Jan 05 23:51	19°♄07'16	-1°37'33
minimum elong	9116 Jan 23 11:44	5°♄23'41	0°30'25	minimum elong	9117 Jan 06 02:54	18°♄59'16	1°36'01
asc. node	9116 Jan 25 00:01	3°♄40'54		asc. node	9117 Jan 10 21:06	14°♄40'50	
	9116 Jan 29 05:52	30°♄		morning rise	9117 Jan 12 14:44	13°♄44'12	
morning rise	9116 Jan 29 14:13	29°♄48'45		direct	9117 Jan 15 02:24	13°♄12'58	
direct	9116 Feb 01 09:41	29°♄05'29		morning max el	9117 Jan 21 13:23	16°♄34'44	17°51'18
	9116 Feb 04 14:46	0°♄			9117 Jan 31 05:34	0°♄	
morning max el	9116 Feb 07 20:15	2°♄31'03	18°11'36	morning set	9117 Feb 07 11:14	12°♄07'58	
morning set	9116 Feb 26 17:56	0°♄17'54		desc. node	9117 Feb 14 05:02	23°♄27'16	
	9116 Feb 26 13:31	0°♄			9117 Feb 18 04:30	0°♄	
desc. node	9116 Feb 28 08:09	2°♄52'12					
				superior conj	9117 Feb 20 16:10	4°♄02'03	-0°46'10
superior conj	9116 Mar 12 21:06	24°♄25'43	-1°28'33	minimum elong	9117 Feb 20 11:00	3°♄41'11	0°45'18

max. Earth dist.	9117 Feb 25 18:42	12° X 11'23	1.44930 AU	superior conj	9118 Feb 01 11:22	14° \approx 48'28	-0°02'56
evening rise	9117 Mar 08 12:42	28° X 55'11		minimum elong	9118 Feb 01 11:06	14° \approx 47'22	0°02'42
	9117 Mar 09 05:37	0° Y		behind sun begin	9118 Feb 01 02:20	14° \approx 10'18	
	9117 Mar 29 14:46	0° B		behind sun end	9118 Feb 01 19:52	15° \approx 24'21	
evening max el	9117 Apr 05 01:01	7° B 43'25	20°16'08	desc. node	9118 Feb 01 01:55	14° \approx 08'33	
asc. node	9117 Apr 08 19:45	10° B 54'22		max. Earth dist.	9118 Feb 08 10:51	26° \approx 20'09	1.43651 AU
retrograde	9117 Apr 12 21:31	12° B 17'03			9118 Feb 10 17:36	0° X	
evening set	9117 Apr 16 19:31	10° B 48'19		evening rise	9118 Feb 16 02:11	8° X 25'45	
inferior conj	9117 Apr 22 03:11	4° B 43'49	3°12'25		9118 Mar 02 11:09	0° Y	
minimum elong	9117 Apr 22 01:56	4° B 48'06	3°12'09	evening max el	9118 Mar 18 22:41	21° Y 24'10	21°26'02
min. Earth dist.	9117 Apr 22 22:00	3° B 39'44	0.67750 AU	asc. node	9118 Mar 26 16:54	26° Y 32'24	
	9117 Apr 25 19:26	30° R Y		retrograde	9118 Mar 27 19:50	26° Y 38'45	
morning rise	9117 Apr 27 08:06	28° Y 26'35		evening set	9118 Apr 01 03:47	24° Y 54'50	
direct	9117 May 03 00:29	25° Y 54'40		inferior conj	9118 Apr 06 10:55	18° Y 39'06	2°52'56
	9117 May 11 12:18	0° B		minimum elong	9118 Apr 06 08:59	18° Y 45'51	2°52'28
desc. node	9117 May 13 05:05	1° B 31'45		min. Earth dist.	9118 Apr 06 16:35	18° Y 19'23	0.68343 AU
morning max el	9117 May 14 11:44	2° B 46'57	24°34'14	morning rise	9118 Apr 11 13:58	12° Y 25'23	
	9117 Jun 04 05:04	0° II		direct	9118 Apr 16 16:50	10° Y 11'21	
morning set	9117 Jun 19 07:53	24° II 38'53		morning max el	9118 Apr 26 21:33	16° Y 14'34	23°04'23
	9117 Jun 22 08:04	0° B		desc. node	9118 Apr 30 02:01	19° Y 41'39	
max. Earth dist.	9117 Jun 22 22:55	1° B 07'14	1.37472 AU		9118 May 08 05:01	0° B	
					9118 May 28 05:28	0° II	
superior conj	9117 Jun 29 19:34	14° B 00'28	-0°56'07	morning set	9118 May 31 11:55	5° II 22'17	
minimum elong	9117 Jun 29 23:07	14° B 17'39	0°55'46	max. Earth dist.	9118 Jun 04 19:08	12° II 39'28	1.39732 AU
asc. node	9117 Jul 05 18:45	25° B 47'10					
	9117 Jul 07 21:20	0° B		superior conj	9118 Jun 12 12:19	26° II 24'12	-1°27'36
evening rise	9117 Jul 08 09:51	1° B 02'26		minimum elong	9118 Jun 12 17:48	26° II 49'26	1°27'08
evening max el	9117 Jul 25 03:22	28° B 20'52	19°17'07		9118 Jun 14 10:55	0° B	
	9117 Jul 26 23:43	0° B		evening rise	9118 Jun 22 03:41	14° B 38'13	
retrograde	9117 Aug 03 09:23	2° B 55'51		asc. node	9118 Jun 22 15:45	15° B 35'58	
evening set	9117 Aug 05 05:57	2° B 45'33			9118 Jun 30 12:28	0° B	
desc. node	9117 Aug 09 04:09	1° B 23'28		evening max el	9118 Jul 08 05:41	10° B 34'11	18°33'18
	9117 Aug 11 15:40	30° R B		retrograde	9118 Jul 16 01:56	14° B 28'50	
inferior conj	9117 Aug 13 19:42	28° B 36'13	-1°25'58	evening set	9118 Jul 18 03:53	14° B 13'11	
minimum elong	9117 Aug 13 15:53	28° B 42'32	1°24'38	inferior conj	9118 Jul 25 22:16	9° B 45'05	0°20'20
min. Earth dist.	9117 Aug 16 11:47	26° B 50'35	0.55889 AU	minimum elong	9118 Jul 25 23:01	9° B 43'38	0°19'50
morning rise	9117 Aug 21 22:59	23° B 56'37		desc. node	9118 Jul 27 01:17	8° B 52'31	
direct	9117 Aug 27 00:53	22° B 57'35		min. Earth dist.	9118 Jul 29 05:44	7° B 12'30	0.57667 AU
morning max el	9117 Sep 10 03:41	0° B 06'27	25°25'46	morning rise	9118 Aug 02 14:35	4° B 28'27	
	9117 Sep 10 00:58	0° B		direct	9118 Aug 08 11:34	3° B 01'03	
	9117 Sep 30 18:19	0° B		morning max el	9118 Aug 22 20:18	10° B 37'21	26°50'00
asc. node	9117 Oct 01 18:36	1° B 57'19			9118 Sep 06 18:42	0° B	
morning set	9117 Oct 07 03:10	12° B 56'02		asc. node	9118 Sep 18 15:32	21° B 33'51	
				morning set	9118 Sep 21 12:56	27° B 34'38	
superior conj	9117 Oct 13 23:37	27° B 55'14	1°35'26		9118 Sep 22 16:09	0° B	
minimum elong	9117 Oct 13 22:13	27° B 47'33	1°35'27				
	9117 Oct 14 22:17	0° B		superior conj	9118 Sep 28 11:17	12° B 44'44	1°24'48
max. Earth dist.	9117 Oct 15 07:15	0° B 49'10	1.32159 AU	minimum elong	9118 Sep 28 09:15	12° B 33'27	1°24'36
evening rise	9117 Oct 21 02:07	13° B 11'50		max. Earth dist.	9118 Sep 28 16:10	13° B 11'54	1.31650 AU
	9117 Oct 29 18:22	0° X		evening rise	9118 Oct 05 07:14	27° B 40'16	
desc. node	9117 Nov 05 02:38	10° X 44'22			9118 Oct 06 09:50	0° B	
	9117 Nov 19 09:08	0° B		desc. node	9118 Oct 22 23:45	29° B 44'23	
evening max el	9117 Nov 22 13:48	3° B 15'10	27°26'45		9118 Oct 23 03:58	0° X	
retrograde	9117 Dec 06 09:17	10° B 31'28		evening max el	9118 Nov 04 18:12	15° X 25'45	26°55'32
evening set	9117 Dec 13 11:08	8° B 08'09		retrograde	9118 Nov 18 16:14	22° X 35'26	
min. Earth dist.	9117 Dec 17 03:40	5° B 11'09	0.62321 AU	evening set	9118 Nov 25 13:33	20° X 33'02	
inferior conj	9117 Dec 20 01:36	2° B 27'24	-2°48'48	min. Earth dist.	9118 Nov 29 08:41	17° X 54'09	0.60248 AU
minimum elong	9117 Dec 20 07:04	2° B 14'35	2°46'28	inferior conj	9118 Dec 02 12:43	15° X 17'54	-3°59'50
	9117 Dec 22 19:41	30° R X		minimum elong	9118 Dec 02 20:03	15° X 02'48	3°57'22
morning rise	9117 Dec 27 05:16	27° X 21'53		morning rise	9118 Dec 10 05:02	10° X 32'45	
asc. node	9117 Dec 28 18:11	27° X 01'22		direct	9118 Dec 12 09:12	10° X 14'37	
direct	9117 Dec 29 11:33	26° X 58'58		asc. node	9118 Dec 15 15:14	10° X 57'06	
	9118 Jan 04 19:23	0° B		morning max el	9118 Dec 19 19:59	13° X 56'48	18°04'51
morning max el	9118 Jan 05 06:26	0° B 26'25	17°48'38		9118 Dec 30 17:53	0° B	
morning set	9118 Jan 21 03:14	25° B 02'41		morning set	9119 Jan 04 11:43	8° B 43'38	
	9118 Jan 23 22:13	0° \approx					
				superior conj	9119 Jan 14 07:25	26° B 45'37	0°34'29

minimum elong	9119 Jan 14 09:59	26°  57'04	0°34'21	superior conj	9119 Dec 28 00:01	9°  40'43	1°03'28
	9119 Jan 16 03:23	0° 		minimum elong	9119 Dec 28 03:19	9°  56'11	1°03'18
desc. node	9119 Jan 18 22:52	4°  52'49		max. Earth dist.	9120 Jan 04 06:01	22°  51'28	1.39745 AU
max. Earth dist.	9119 Jan 21 22:28	9°  56'04	1.41854 AU	desc. node	9120 Jan 05 19:49	25°  35'59	
evening rise	9119 Jan 27 06:08	18°  39'09		evening rise	9120 Jan 08 07:10	29°  49'03	
	9119 Feb 03 12:15	0° 			9120 Jan 08 09:47	0° 	
	9119 Feb 25 00:56	0° 			9120 Jan 27 22:21	0° 	
evening max el	9119 Mar 01 15:49	5°  07'32	22°43'58	evening max el	9120 Feb 12 06:08	18°  54'04	24°04'11
retrograde	9119 Mar 11 16:12	11°  03'29		retrograde	9120 Feb 23 09:12	25°  56'16	
asc. node	9119 Mar 13 14:03	10°  04'52		asc. node	9120 Feb 28 11:12	23°  58'24	29
evening set	9119 Mar 16 11:17	9°  04'43		evening set	9120 Feb 28 16:27	23°  58'13	33
inferior conj	9119 Mar 21 19:48	2°  40'49	2°23'49	min. Earth dist.	9120 Mar 04 09:37	17°  47'14	0.68249 AU
minimum elong	9119 Mar 21 17:34	2°  48'33	2°23'12	inferior conj	9120 Mar 05 03:56	16°  45'13	1°45'44
min. Earth dist.	9119 Mar 21 13:14	3°  03'39	0.68504 AU	minimum elong	9120 Mar 05 01:52	16°  52'12	1°45'07
	9119 Mar 23 19:16	30° 		morning rise	9120 Mar 10 11:20	10°  42'59	
morning rise	9119 Mar 26 23:44	26°  32'07		direct	9120 Mar 14 11:09	9°  12'30	
direct	9119 Mar 31 12:49	24°  39'25		morning max el	9120 Mar 22 07:11	13°  38'38	20°20'48
morning max el	9119 Apr 09 10:58	29°  50'49	21°37'39	desc. node	9120 Apr 02 19:48	28°  12'23	
	9119 Apr 09 14:38	0° 			9120 Apr 04 01:54	0° 	
desc. node	9119 Apr 16 22:55	8°  09'43		morning set	9120 Apr 19 15:23	23°  09'21	04
	9119 May 01 22:39	0° 			9120 Apr 23 21:47	0° 	
morning set	9119 May 11 12:48	14°  50'47		max. Earth dist.	9120 Apr 29 03:42	8°  19'43	1.43740 AU
max. Earth dist.	9119 May 17 19:40	25°  02'23	1.41914 AU				
	9119 May 20 18:57	0° 		superior conj	9120 May 05 07:13	18°  20'21	-2°10'20
				minimum elong	9120 May 05 10:07	18°  32'20	2°10'27
superior conj	9119 May 25 09:37	7°  15'40	-1°54'14		9120 May 12 05:35	0° 	
minimum elong	9119 May 25 15:32	8°  19'48	1°53'58	evening rise	9120 May 17 21:58	9°  14'49	19
evening rise	9119 Jun 05 09:17	27°  13'37		asc. node	9120 May 26 09:52	24°  12'18	
	9119 Jun 06 16:25	0° 			9120 May 29 23:28	0° 	
asc. node	9119 Jun 09 12:48	5°  10'25		evening max el	9120 Jun 04 04:23	6°  32'49	18°05'43
evening max el	9119 Jun 21 15:19	23°  21'44	18°09'48	retrograde	9120 Jun 10 15:02	9°  53'26	
retrograde	9119 Jun 28 13:02	26°  51'27		evening set	9120 Jun 13 08:18	9°  16'44	
evening set	9119 Jun 30 22:41	26°  26'36		inferior conj	9120 Jun 19 16:33	4°  08'20	2°35'58
inferior conj	9119 Jul 07 22:16	21°  37'49	1°41'36	minimum elong	9120 Jun 19 19:18	4°  01'11	2°35'04
minimum elong	9119 Jul 08 01:03	21°  31'34	1°40'27	min. Earth dist.	9120 Jun 22 15:25	1°  06'25	0.62100 AU
min. Earth dist.	9119 Jul 11 06:20	18°  38'41	0.59852 AU		9120 Jun 23 19:18	30° 	
desc. node	9119 Jul 13 22:23	16°  33'50		morning rise	9120 Jun 26 04:21	28°  12'02	57
morning rise	9119 Jul 15 00:27	15°  51'38		desc. node	9120 Jun 29 19:27	26°  10'08	42
direct	9119 Jul 21 11:26	13°  53'23		direct	9120 Jul 02 21:45	25°  11'38	34
morning max el	9119 Aug 04 19:37	21°  46'32	27°41'57		9120 Jul 12 23:14	0° 	
	9119 Aug 12 00:27	0° 		morning max el	9120 Jul 17 01:12	3°  40'09	27°55'56
	9119 Aug 30 19:08	0° 			9120 Aug 05 14:50	0° 	
morning set	9119 Sep 05 19:14	12°  00'19		morning set	9120 Aug 19 20:03	26°  07'47	
asc. node	9119 Sep 05 12:28	11°  09'25	02		9120 Aug 21 17:02	0° 	
max. Earth dist.	9119 Sep 12 01:53	25°  09'34	24	asc. node	9120 Aug 22 09:24	1°  09'25	48
			1.31614 AU	max. Earth dist.	9120 Aug 25 08:39	7°  09'46	28
							1.32050 AU
superior conj	9119 Sep 12 22:48	27°  09'30	15				
minimum elong	9119 Sep 12 20:33	27°  09'17	48	superior conj	9120 Aug 27 08:21	12°  06'20	0°48'17
	9119 Sep 14 01:48	0° 		minimum elong	9120 Aug 27 06:24	11°  09'55	36
evening rise	9119 Sep 19 16:28	12°  09'18	04	evening rise	9120 Sep 03 03:46	26°  09'59	20
	9119 Sep 28 13:31	0° 			9120 Sep 04 13:44	0° 	
desc. node	9119 Oct 09 20:54	17°  05'52	32		9120 Sep 21 18:40	0° 	
evening max el	9119 Oct 17 15:03	26°  05'45	48	desc. node	9120 Sep 25 18:02	4°  05'48	55
	9119 Oct 21 11:41	0° 		evening max el	9120 Sep 28 04:22	7°  19'25	24°21'27
retrograde	9119 Oct 31 13:04	3°  48'16		retrograde	9120 Oct 11 22:05	14°  12'54	
evening set	9119 Nov 06 19:11	2°  48'16	21	evening set	9120 Oct 17 00:20	13°  15'36	
	9119 Nov 10 16:21	30° 		min. Earth dist.	9120 Oct 22 15:12	10°  15'24	34
min. Earth dist.	9119 Nov 11 03:43	29°  15'40	38	inferior conj	9120 Oct 25 02:23	8°  15'52	17
inferior conj	9119 Nov 14 05:43	27°  15'28	39	minimum elong	9120 Oct 25 04:43	8°  15'48	39
minimum elong	9119 Nov 14 12:39	27° 16'13	4°59'34	morning rise	9120 Nov 02 11:13	4° 15'51	18
morning rise	9119 Nov 22 08:27	23° 05'59	58	direct	9120 Nov 05 02:15	4° 15'32	58
direct	9119 Nov 24 15:15	22° 04'49	15	morning max el	9120 Nov 14 21:46	9° 11'40	19°40'33
asc. node	9119 Dec 02 12:16	26° 05'22	24	asc. node	9120 Nov 18 09:15	13° 03'19	
morning max el	9119 Dec 03 02:17	26° 05'55	06		9120 Nov 28 16:39	0°	
	9119 Dec 05 20:50	0°		morning set	9120 Dec 02 10:57	7° 27'12	
morning set	9119 Dec 19 07:32	22° 27'55	23				
	9119 Dec 22 22:43	0°		superior conj	9120 Dec 10 08:13	23° 27'00	41

minimum elong	9120 Dec 10 10:56	23°  33'29	1°23'41	superior conj	9121 Nov 24 03:33	7°  30'14	1°35'49
	9120 Dec 13 18:30	0°  3		minimum elong	9121 Nov 24 05:07	7°  38'17	1°35'57
max. Earth dist.	9120 Dec 16 12:10	5°  09'13	1.37568 AU	max. Earth dist.	9121 Nov 28 21:20	17°  03'49	1.35560 AU
evening rise	9120 Dec 20 05:31	11°  35'49		evening rise	9121 Dec 02 22:05	24°  48'06	
desc. node	9120 Dec 22 16:49	16°  31'42			9121 Dec 05 18:00	0°  3	
	9120 Dec 31 01:27	0°  3		desc. node	9121 Dec 09 13:50	6°  34'34	
	9121 Jan 22 04:32	0°  3			9121 Dec 24 14:47	0°  3	
evening max el	9121 Jan 24 19:22	2°  42'34	25°19'59	evening max el	9122 Jan 07 08:31	16°  28'05	26°24'20
retrograde	9121 Feb 05 21:55	9°  42'05		retrograde	9122 Jan 20 05:36	23°  44'10	
evening set	9121 Feb 11 17:44	7°  17'25		evening set	9122 Jan 26 13:23	21°  11'19	
asc. node	9121 Feb 14 08:19	4°  38'54		min. Earth dist.	9122 Jan 30 16:49	16°  54'21	0.66549 AU
min. Earth dist.	9121 Feb 16 03:31	2°  25'56	0.67594 AU	inferior conj	9122 Feb 01 10:24	14°  48'20	0°04'08
inferior conj	9121 Feb 17 09:28	0°  49'06	0°59'05	minimum elong	9122 Feb 01 10:17	14°  48'42	0°04'18
minimum elong	9121 Feb 17 08:05	0°  53'35	0°58'42	transit middle	9122 Feb 01 10:17	14°  48'42	0°04'18
	9121 Feb 18 00:42	30°  3		transit begin	9122 Feb 01 07:30	14°  57'10	
morning rise	9121 Feb 22 22:48	24°  54'58		transit end	9122 Feb 01 13:04	14°  40'15	
direct	9121 Feb 26 10:21	23°  45'20		asc. node	9122 Feb 01 05:25	15°  03'30	
morning max el	9121 Mar 05 11:26	27°  38'17	19°17'56	morning rise	9122 Feb 07 08:02	9°  04'14	
	9121 Mar 07 16:07	0°  3		direct	9122 Feb 10 08:46	8°  12'31	
greatest brilliancy	9121 Mar 18 10:27	14°  46'39	-0.7m	morning max el	9122 Feb 16 22:36	11°  45'00	18°31'02
desc. node	9121 Mar 20 16:42	18°  10'30			9122 Mar 02 04:47	0°  3	
	9121 Mar 28 10:12	0°  3		desc. node	9122 Mar 07 13:35	8°  27'06	
morning set	9121 Mar 29 15:13	1°  51'56		morning set	9122 Mar 09 11:12	11°  27'35	
max. Earth dist.	9121 Apr 11 18:17	22°  19'03	1.44994 AU		9122 Mar 21 05:49	0°  3	
superior conj	9121 Apr 15 04:48	27°  45'36	-2°09'36	superior conj	9122 Mar 25 11:25	6°  37'36	-1°48'37
minimum elong	9121 Apr 15 00:54	27°  30'05	2°09'36	minimum elong	9122 Mar 25 02:09	6°  01'18	1°47'52
	9121 Apr 16 14:33	0°  3		max. Earth dist.	9122 Mar 25 12:37	6°  42'15	1.45548 AU
evening rise	9121 Apr 29 13:13	21°  30'43			9122 Apr 09 08:09	0°  3	
	9121 May 04 22:30	0°  3		evening rise	9122 Apr 10 04:49	1°  21'54	
asc. node	9121 May 13 06:55	13°  10'35		greatest brilliancy	9122 Apr 19 05:08	15°  37'27	-0.8m
evening max el	9121 May 18 17:36	19°  58'51	18°20'14		9122 Apr 29 01:40	0°  3	
retrograde	9121 May 25 03:15	23°  24'40		asc. node	9122 Apr 30 04:00	1°  20'47	
evening set	9121 May 28 03:55	22°  34'29		evening max el	9122 May 02 04:23	3°  33'56	18°52'35
inferior conj	9121 Jun 03 00:54	17°  08'19	3°07'20	retrograde	9122 May 08 21:48	7°  17'41	
minimum elong	9121 Jun 03 02:39	17°  03'16	3°06'51	evening set	9122 May 12 06:07	6°  13'04	
min. Earth dist.	9121 Jun 05 09:56	14°  24'24	0.64166 AU	inferior conj	9122 May 17 19:33	0°  30'50	3°20'21
morning rise	9121 Jun 09 00:14	10°  24'47		minimum elong	9122 May 17 20:01	0°  29'23	3°20'07
direct	9121 Jun 15 16:49	8°  11'51			9122 May 18 05:20	30°  3	
desc. node	9121 Jun 16 16:29	8°  15'02		min. Earth dist.	9122 May 19 13:24	28°  19'40	0.65895 AU
morning max el	9121 Jun 29 10:45	16°  21'33	27°33'02	morning rise	9122 May 23 09:18	24°  11'44	
	9121 Jul 10 19:25	0°  3		direct	9122 May 29 19:27	21°  25'48	
	9121 Jul 29 09:17	0°  3		desc. node	9122 Jun 03 13:30	22°  40'37	
morning set	9121 Aug 03 12:53	9°  04'27		morning max el	9122 Jun 11 21:24	29°  12'20	26°39'17
max. Earth dist.	9121 Aug 08 08:25	19°  03'18	1.32970 AU		9122 Jun 12 15:55	0°  3	
asc. node	9121 Aug 09 06:18	21°  03'08			9122 Jul 04 15:51	0°  3	
superior conj	9121 Aug 11 13:56	26°  02'23	0°23'09	morning set	9122 Jul 17 18:39	22°  57'10	
minimum elong	9121 Aug 11 12:49	26°  02'27	0°22'45		9122 Jul 21 10:03	0°  3	
	9121 Aug 13 05:40	0°  3		max. Earth dist.	9122 Jul 21 21:56	0°  58'50	1.34382 AU
evening rise	9121 Aug 18 15:12	11°  37'24		superior conj	9122 Jul 26 13:19	10°  24'37	-0°05'48
	9121 Aug 27 23:12	0°  3		minimum elong	9122 Jul 26 13:38	10°  26'20	0°05'58
evening max el	9121 Sep 09 15:38	17°  29'50	22°41'40	behind sun begin	9122 Jul 26 08:13	9°  08'14	
desc. node	9121 Sep 12 15:11	20°  05'59		behind sun end	9122 Jul 26 19:04	10°  25'42	
retrograde	9121 Sep 22 19:02	24°  03'16		asc. node	9122 Jul 27 03:13	11°  36'53	
evening set	9121 Sep 26 09:02	23°  03'04		evening rise	9122 Aug 03 00:51	26°  06'57	
min. Earth dist.	9121 Oct 03 23:20	20°  01'01	0.55082 AU		9122 Aug 04 21:53	0°  3	
inferior conj	9121 Oct 05 04:31	19°  29'26	-5°26'22	evening max el	9122 Aug 22 10:15	27°  54'42	21°08'18
minimum elong	9121 Oct 04 23:05	19°  37'12	5°25'40		9122 Aug 24 18:23	0°  3	
morning rise	9121 Oct 13 15:02	15°  41'18		desc. node	9122 Aug 30 12:18	3°  12'38	
direct	9121 Oct 16 18:55	15°  18'22		retrograde	9122 Sep 03 07:40	3°  48'25	
morning max el	9121 Oct 28 04:09	20°  38'57	21°01'47	evening set	9122 Sep 05 16:11	3°  35'27	
	9121 Nov 04 18:48	0°  3			9122 Sep 14 06:11	30°  3	
asc. node	9121 Nov 05 06:13	0°  3		inferior conj	9122 Sep 14 21:07	29°  38'57	-4°20'06
morning set	9121 Nov 16 19:09	22°  10'15		minimum elong	9122 Sep 14 11:26	29°  52'37	4°17'31
	9121 Nov 20 13:03	0°  3		min. Earth dist.	9122 Sep 15 07:54	29°  23'44	0.54657 AU
				morning rise	9122 Sep 23 07:09	25°  45'14	

direct	9122 Sep 27 03:06	25° \mathbb{M} 13'39		morning rise	9123 Sep 03 01:34	5° \mathbb{M} 32'33	
	9122 Oct 08 10:12	0° \mathbb{A}		direct	9123 Sep 07 16:25	4° \mathbb{M} 45'44	
morning max el	9122 Oct 09 22:40	1° \mathbb{A} 20'29	22°41'03	morning max el	9123 Sep 21 10:54	11° \mathbb{M} 34'19	24°27'35
asc. node	9122 Oct 23 03:09	19° \mathbb{A} 09'29			9123 Oct 05 10:13	0° \mathbb{A}	
	9122 Oct 28 21:03	0° \mathbb{M}		asc. node	9123 Oct 10 00:05	8° \mathbb{A} 09'49	
morning set	9122 Nov 01 06:02	6° \mathbb{M} 58'37		morning set	9123 Oct 16 17:49	21° \mathbb{A} 47'22	
					9123 Oct 20 12:47	0° \mathbb{M}	
superior conj	9122 Nov 08 06:38	22° \mathbb{M} 01'16	1°40'40	superior conj	9123 Oct 23 14:45	6° \mathbb{M} 45'01	1°39'03
minimum elong	9122 Nov 08 06:55	22° \mathbb{M} 02'46	1°40'52	minimum elong	9123 Oct 23 13:53	6° \mathbb{M} 40'19	1°39'10
max. Earth dist.	9122 Nov 11 13:46	28° \mathbb{M} 57'43	1.33898 AU	max. Earth dist.	9123 Oct 25 14:38	11° \mathbb{M} 05'04	1.32664 AU
	9122 Nov 12 01:49	0° \mathbb{A}		evening rise	9123 Oct 30 23:04	22° \mathbb{M} 20'02	
evening rise	9122 Nov 16 05:07	8° \mathbb{A} 19'36			9123 Nov 03 20:05	0° \mathbb{A}	
desc. node	9122 Nov 26 10:52	26° \mathbb{A} 57'59		desc. node	9123 Nov 13 07:56	16° \mathbb{A} 51'19	
	9122 Nov 28 06:44	0° \mathbb{B}			9123 Nov 22 01:58	0° \mathbb{B}	
	9122 Dec 20 20:25	0° \mathbb{A}		evening max el	9123 Dec 03 09:32	13° \mathbb{B} 16'15	27°29'35
evening max el	9122 Dec 20 21:40	0° \mathbb{A} 02'59	27°09'52	retrograde	9123 Dec 17 02:36	20° \mathbb{B} 35'07	
retrograde	9123 Jan 03 07:28	7° \mathbb{A} 24'35		evening set	9123 Dec 24 03:05	18° \mathbb{B} 05'06	
evening set	9123 Jan 10 01:21	4° \mathbb{A} 49'19		min. Earth dist.	9123 Dec 27 20:57	14° \mathbb{B} 52'36	0.63426 AU
min. Earth dist.	9123 Jan 13 23:18	1° \mathbb{A} 05'56	0.65146 AU	inferior conj	9123 Dec 30 13:11	12° \mathbb{B} 11'33	-2°07'24
	9123 Jan 14 23:11	30° \mathbb{R} \mathbb{B}		minimum elong	9123 Dec 30 17:15	12° \mathbb{B} 01'19	2°05'30
inferior conj	9123 Jan 16 04:30	28° \mathbb{B} 37'49	-0°58'31	asc. node	9124 Jan 05 23:37	7° \mathbb{B} 05'10	
minimum elong	9123 Jan 16 06:15	28° \mathbb{B} 32'58	0°57'32	morning rise	9124 Jan 06 09:22	6° \mathbb{B} 55'14	
asc. node	9123 Jan 19 02:31	25° \mathbb{B} 34'09		direct	9124 Jan 08 18:23	6° \mathbb{B} 27'57	
morning rise	9123 Jan 22 12:34	23° \mathbb{B} 06'06		morning max el	9124 Jan 15 07:50	9° \mathbb{B} 51'18	17°47'56
direct	9123 Jan 25 04:20	22° \mathbb{B} 28'33			9124 Jan 28 20:54	0° \mathbb{A}	
morning max el	9123 Jan 31 14:21	25° \mathbb{B} 51'41	18°00'50	morning set	9124 Jan 31 16:28	4° \mathbb{A} 51'43	
	9123 Feb 04 03:38	0° \mathbb{A}		desc. node	9124 Feb 09 07:22	19° \mathbb{A} 34'41	
morning set	9123 Feb 18 12:35	22° \mathbb{A} 30'59					
desc. node	9123 Feb 22 10:28	28° \mathbb{A} 56'29		superior conj	9124 Feb 13 01:33	25° \mathbb{A} 48'50	-0°27'26
	9123 Feb 23 02:01	0° \mathbb{H}		minimum elong	9124 Feb 12 22:37	25° \mathbb{A} 36'47	0°26'50
superior conj	9123 Mar 04 20:51	15° \mathbb{H} 44'14	-1°11'17		9124 Feb 15 15:06	0° \mathbb{H}	
minimum elong	9123 Mar 04 12:51	15° \mathbb{H} 12'34	1°10'12	max. Earth dist.	9124 Feb 19 02:36	5° \mathbb{H} 35'36	1.44462 AU
max. Earth dist.	9123 Mar 08 08:06	21° \mathbb{H} 12'36	1.45361 AU	evening rise	9124 Feb 28 11:38	20° \mathbb{H} 15'31	
	9123 Mar 13 23:11	0° \mathbb{Y}			9124 Mar 05 21:23	0° \mathbb{Y}	
evening rise	9123 Mar 21 00:18	10° \mathbb{Y} 54'25			9124 Mar 27 15:12	0° \mathbb{B}	
	9123 Apr 02 12:36	0° \mathbb{B}		evening max el	9124 Mar 28 11:46	0° \mathbb{B} 53'41	20°44'36
greatest brilliancy	9123 Apr 03 18:17	1° \mathbb{B} 50'18	-0.7m	asc. node	9124 Apr 02 22:16	5° \mathbb{B} 03'40	
evening max el	9123 Apr 15 10:46	17° \mathbb{B} 12'53	19°41'28	retrograde	9124 Apr 05 18:05	5° \mathbb{B} 43'44	
asc. node	9123 Apr 17 01:07	18° \mathbb{B} 42'58		evening set	9124 Apr 09 20:14	4° \mathbb{B} 08'31	
retrograde	9123 Apr 22 19:29	21° \mathbb{B} 25'32			9124 Apr 13 15:48	30° \mathbb{R} \mathbb{Y}	
evening set	9123 Apr 26 12:13	20° \mathbb{B} 05'47		inferior conj	9124 Apr 15 03:26	27° \mathbb{Y} 59'10	3°05'24
inferior conj	9123 May 01 21:15	14° \mathbb{B} 09'07	3°18'50	minimum elong	9124 Apr 15 01:50	28° \mathbb{Y} 04'39	3°05'02
minimum elong	9123 May 01 20:32	14° \mathbb{B} 11'29	3°18'37	min. Earth dist.	9124 Apr 15 16:33	27° \mathbb{Y} 13'57	0.68063 AU
min. Earth dist.	9123 May 03 00:15	12° \mathbb{B} 39'16	0.67205 AU	morning rise	9124 Apr 20 07:14	21° \mathbb{Y} 43'25	
morning rise	9123 May 07 04:31	7° \mathbb{B} 50'31		direct	9124 Apr 25 18:06	19° \mathbb{Y} 18'20	
direct	9123 May 13 04:13	5° \mathbb{B} 10'42		morning max el	9124 May 06 16:21	25° \mathbb{Y} 50'01	23°56'09
desc. node	9123 May 21 10:30	8° \mathbb{B} 54'36		desc. node	9124 May 07 07:28	26° \mathbb{Y} 28'47	
morning max el	9123 May 25 07:11	12° \mathbb{B} 26'51	25°23'36		9124 May 10 11:44	0° \mathbb{B}	
	9123 Jun 08 09:53	0° \mathbb{I}			9124 May 31 22:42	0° \mathbb{I}	
	9123 Jun 27 09:21	0° \mathbb{E}		morning set	9124 Jun 11 03:19	16° \mathbb{I} 42'01	
morning set	9123 Jun 30 09:09	5° \mathbb{E} 19'01		max. Earth dist.	9124 Jun 14 21:43	23° \mathbb{I} 16'23	1.38433 AU
max. Earth dist.	9123 Jul 04 00:49	12° \mathbb{E} 02'32	1.36248 AU		9124 Jun 18 15:05	0° \mathbb{E}	
superior conj	9123 Jul 10 03:41	23° \mathbb{E} 53'08	-0°37'24	superior conj	9124 Jun 22 05:34	6° \mathbb{E} 43'39	-1°09'46
minimum elong	9123 Jul 10 05:58	24° \mathbb{E} 04'32	0°37'14	minimum elong	9124 Jun 22 10:01	7° \mathbb{E} 04'45	1°09'20
	9123 Jul 13 04:40	0° \mathbb{Q}		asc. node	9124 Jun 29 21:11	21° \mathbb{E} 34'16	
asc. node	9123 Jul 14 00:11	1° \mathbb{Q} 39'12		evening rise	9124 Jul 01 05:39	24° \mathbb{E} 13'40	
evening rise	9123 Jul 18 06:32	10° \mathbb{Q} 21'12			9124 Jul 04 04:54	0° \mathbb{Q}	
	9123 Jul 28 19:41	0° \mathbb{M}		evening max el	9124 Jul 17 14:15	20° \mathbb{Q} 48'48	18°55'53
evening max el	9123 Aug 04 17:52	8° \mathbb{M} 59'07	19°51'47	retrograde	9124 Jul 26 04:23	25° \mathbb{Q} 04'37	
retrograde	9123 Aug 14 22:38	14° \mathbb{M} 01'38		evening set	9124 Jul 28 02:52	24° \mathbb{Q} 52'28	
evening set	9123 Aug 16 19:33	13° \mathbb{M} 52'13		desc. node	9124 Aug 03 06:37	22° \mathbb{Q} 01'08	
desc. node	9123 Aug 17 09:27	13° \mathbb{M} 45'37		inferior conj	9124 Aug 05 08:36	20° \mathbb{Q} 35'24	-0°38'22
inferior conj	9123 Aug 25 18:23	9° \mathbb{M} 51'23	-2°33'04	minimum elong	9124 Aug 05 06:59	20° \mathbb{Q} 38'15	0°37'55
minimum elong	9123 Aug 25 11:27	10° \mathbb{M} 01'58	2°30'37	min. Earth dist.	9124 Aug 08 09:09	18° \mathbb{Q} 28'09	0.56581 AU
min. Earth dist.	9123 Aug 27 18:39	8° \mathbb{M} 37'45	0.55188 AU	morning rise	9124 Aug 13 07:51	15° \mathbb{Q} 40'06	

direct	9124 Aug 18 18:25	14°♎29'49		min. Earth dist.	9125 Jul 21 05:39	29°♎17'22	0.58563 AU
morning max el	9124 Sep 02 00:21	21°♎50'42	26°04'54	desc. node	9125 Jul 21 03:44	29°♎21'08	
	9124 Sep 09 04:31	0°♎		morning rise	9125 Jul 25 07:05	26°♎33'21	
asc. node	9124 Sep 25 21:01	27°♎35'24		direct	9125 Jul 31 10:36	24°♎53'05	
	9124 Sep 27 01:45	0°♎			9125 Aug 11 22:17	0°♎	
morning set	9124 Sep 30 04:49	6°♎31'14		morning max el	9125 Aug 14 19:58	2°♎37'23	27°16'40
					9125 Sep 03 15:30	0°♎	
superior conj	9124 Oct 07 01:40	21°♎34'07	1°31'34	asc. node	9125 Sep 12 17:56	17°♎19'09	
minimum elong	9124 Oct 06 23:57	21°♎24'38	1°31'30	morning set	9125 Sep 14 13:23	21°♎05'34	
max. Earth dist.	9124 Oct 07 21:43	23°♎25'01	1.31889 AU		9125 Sep 18 16:22	0°♎	
	9124 Oct 10 21:47	0°♎					
evening rise	9124 Oct 14 00:52	6°♎40'24		superior conj	9125 Sep 21 13:31	6°♎22'50	1°18'42
	9124 Oct 26 08:30	0°♎		minimum elong	9125 Sep 21 11:20	6°♎10'43	1°18'25
desc. node	9124 Oct 30 05:03	6°♎14'15		max. Earth dist.	9125 Sep 21 07:38	5°♎50'10	1.31579 AU
evening max el	9124 Nov 14 17:29	25°♎53'07	27°17'44	evening rise	9125 Sep 28 08:01	21°♎13'47	
	9124 Nov 19 19:25	0°♎			9125 Oct 02 13:54	0°♎	
retrograde	9124 Nov 28 13:59	3°♎05'50		desc. node	9125 Oct 17 02:11	24°♎54'32	
evening set	9124 Dec 05 15:10	0°♎05'17			9125 Oct 20 20:40	0°♎	
	9124 Dec 06 20:52	30°♎		evening max el	9125 Oct 27 18:43	7°♎42'06	26°31'49
min. Earth dist.	9124 Dec 09 08:01	28°♎02'31	0.61456 AU	retrograde	9125 Nov 10 16:44	14°♎48'47	
inferior conj	9124 Dec 12 09:10	25°♎20'20	-3°19'21	evening set	9125 Nov 17 09:21	12°♎57'59	
minimum elong	9124 Dec 12 15:34	25°♎06'06	3°16'52	min. Earth dist.	9125 Nov 21 08:17	10°♎22'55	0.59359 AU
morning rise	9124 Dec 19 18:19	20°♎22'56		inferior conj	9125 Nov 24 12:56	7°♎54'43	-4°27'48
direct	9124 Dec 21 23:22	20°♎02'20		minimum elong	9125 Nov 24 20:30	7°♎40'01	4°25'35
asc. node	9124 Dec 22 20:42	20°♎05'46		morning rise	9125 Dec 02 10:09	3°♎19'18	
morning max el	9124 Dec 28 23:48	23°♎34'43	17°53'08	direct	9125 Dec 04 14:53	3°♎02'08	
	9125 Jan 03 02:31	0°♎		asc. node	9125 Dec 09 17:43	4°♎40'51	
morning set	9125 Jan 13 16:13	18°♎08'16		morning max el	9125 Dec 12 10:45	6°♎52'45	18°17'53
	9125 Jan 20 06:18	0°♎			9125 Dec 27 03:59	0°♎	
				morning set	9125 Dec 28 06:00	2°♎03'23	
superior conj	9125 Jan 24 07:38	7°♎06'02	0°13'53				
minimum elong	9125 Jan 24 08:52	7°♎11'21	0°13'56	superior conj	9126 Jan 06 13:04	19°♎29'32	0°47'51
behind sun begin	9125 Jan 24 04:42	6°♎53'22		minimum elong	9126 Jan 06 16:09	19°♎43'36	0°47'40
behind sun end	9125 Jan 24 13:02	7°♎29'20			9126 Jan 12 11:00	0°♎	
desc. node	9125 Jan 26 04:16	10°♎17'23		desc. node	9126 Jan 13 01:12	1°♎01'18	
max. Earth dist.	9125 Jan 31 17:28	19°♎33'43	1.42944 AU	max. Earth dist.	9126 Jan 14 03:13	2°♎52'40	1.40982 AU
evening rise	9125 Feb 07 05:58	0°♎01'11		evening rise	9126 Jan 18 18:25	10°♎37'02	
	9125 Feb 07 05:40	0°♎			9126 Jan 31 05:15	0°♎	
	9125 Feb 27 11:57	0°♎		evening max el	9126 Feb 21 22:51	28°♎18'38	23°18'07
evening max el	9125 Mar 11 07:21	14°♎35'09	21°58'28		9126 Feb 23 17:24	0°♎	
retrograde	9125 Mar 20 15:42	20°♎07'12		retrograde	9126 Mar 04 10:52	4°♎31'21	
asc. node	9125 Mar 20 19:27	20°♎07'05		asc. node	9126 Mar 07 16:36	3°♎40'06	
evening set	9125 Mar 25 04:23	18°♎16'39		evening set	9126 Mar 09 11:04	2°♎26'15	
inferior conj	9125 Mar 30 11:53	11°♎57'04	2°41'43		9126 Mar 11 19:46	30°♎	
minimum elong	9125 Mar 30 09:46	12°♎04'26	2°41'10	inferior conj	9126 Mar 14 20:39	25°♎59'42	2°08'44
min. Earth dist.	9125 Mar 30 12:11	11°♎56'01	0.68468 AU	minimum elong	9126 Mar 14 18:26	26°♎07'20	2°08'05
morning rise	9125 Apr 04 15:01	5°♎45'34		min. Earth dist.	9126 Mar 14 08:57	26°♎40'00	0.68443 AU
direct	9125 Apr 09 11:59	3°♎40'30		morning rise	9126 Mar 20 01:45	19°♎53'39	
morning max el	9125 Apr 19 03:21	9°♎20'53	22°26'44	direct	9126 Mar 24 08:59	18°♎10'42	
desc. node	9125 Apr 24 04:22	15°♎00'41		morning max el	9126 Apr 01 19:28	23°♎01'53	21°03'27
	9125 May 05 07:28	0°♎			9126 Apr 07 20:12	0°♎	
morning set	9125 May 22 20:01	26°♎53'43		desc. node	9126 Apr 11 01:16	4°♎14'20	
	9125 May 24 17:24	0°♎			9126 Apr 28 15:07	0°♎	
max. Earth dist.	9125 May 27 19:42	5°♎10'42	1.40688 AU	morning set	9126 May 02 09:59	5°♎52'47	
				max. Earth dist.	9126 May 09 23:13	17°♎56'40	1.42741 AU
superior conj	9125 Jun 04 14:39	18°♎45'49	-1°39'47				
minimum elong	9125 Jun 04 20:37	19°♎12'36	1°39'21	superior conj	9126 May 17 02:11	29°♎48'25	-2°02'43
	9125 Jun 10 17:42	0°♎		minimum elong	9126 May 17 07:21	0°♎10'25	2°02'38
evening rise	9125 Jun 14 18:50	7°♎35'40			9126 May 17 04:54	0°♎	
asc. node	9125 Jun 16 18:13	11°♎17'50		evening rise	9126 May 28 17:50	20°♎15'50	
	9125 Jun 27 23:13	0°♎			9126 Jun 03 05:08	0°♎	
evening max el	9125 Jun 30 20:08	3°♎17'51	18°20'50	asc. node	9126 Jun 03 15:16	0°♎44'07	
retrograde	9125 Jul 08 05:27	7°♎00'19		evening max el	9126 Jun 14 07:35	16°♎15'57	18°05'46
evening set	9125 Jul 10 10:33	6°♎41'11		retrograde	9126 Jun 20 23:30	19°♎40'18	
inferior conj	9125 Jul 17 20:35	2°♎03'54	0°58'10	evening set	9126 Jun 23 12:16	19°♎10'50	
minimum elong	9125 Jul 17 22:30	1°♎59'56	0°57'14	inferior conj	9126 Jun 30 04:52	14°♎13'38	2°07'45
	9125 Jul 20 08:20	30°♎		minimum elong	9126 Jun 30 07:49	14°♎06'33	2°06'38

min. Earth dist.	9126 Jul 03 09:55	11°☿10'13	0.60807 AU	min. Earth dist.	9127 Jun 15 23:05	24°♊00'38	0.63013 AU
morning rise	9126 Jul 07 00:45	8°☿17'41		morning rise	9127 Jun 19 11:49	20°♊46'46	
desc. node	9126 Jul 08 00:50	7°☿41'09		desc. node	9127 Jun 24 21:52	18°♊19'18	
direct	9126 Jul 13 15:16	6°☿07'17		direct	9127 Jun 26 05:50	18°♊13'35	
morning max el	9126 Jul 27 22:21	14°☿06'03	27°52'39	morning max el	9127 Jul 10 05:47	26°♊16'34	27°50'20
	9126 Aug 09 17:06	0°♊			9127 Jul 13 16:47	0°☿	
	9126 Aug 27 01:48	0°♊			9127 Aug 03 07:24	0°♊	
morning set	9126 Aug 29 17:36	5°♊24'12		morning set	9127 Aug 13 15:20	19°♊21'12	
asc. node	9126 Aug 30 14:50	7°♊14'46		asc. node	9127 Aug 17 11:45	27°♊17'41	
max. Earth dist.	9126 Sep 04 16:28	18°♊08'56	1.31738 AU		9127 Aug 18 18:23	0°♊	
				max. Earth dist.	9127 Aug 18 20:26	0°♊10'57	1.32379 AU
superior conj	9126 Sep 06 00:24	21°♊04'48	1°00'47	superior conj	9127 Aug 21 08:31	5°♊34'37	0°38'09
minimum elong	9126 Sep 05 22:13	20°♊52'43	1°00'20	minimum elong	9127 Aug 21 06:51	5°♊25'34	0°37'41
	9126 Sep 10 01:20	0°♊		evening rise	9127 Aug 28 05:53	20°♊33'21	
evening rise	9126 Sep 12 18:20	5°♊53'14			9127 Sep 01 19:07	0°♊	
	9126 Sep 25 07:29	0°♊		desc. node	9127 Sep 20 20:29	28°♊52'37	
desc. node	9126 Oct 03 23:20	12°♊34'55		evening max el	9127 Sep 20 23:23	28°♊59'40	23°39'15
evening max el	9126 Oct 09 11:50	18°♊39'48	25°15'16		9127 Sep 22 01:16	0°♊	
retrograde	9126 Oct 23 09:10	25°♊39'55		retrograde	9127 Oct 04 12:57	5°♊46'23	
evening set	9126 Oct 29 04:48	24°♊22'34		evening set	9127 Oct 08 23:51	5°♊03'06	
min. Earth dist.	9126 Nov 02 23:44	21°♊42'31	0.57346 AU	min. Earth dist.	9127 Oct 15 09:37	1°♊59'42	0.55722 AU
inferior conj	9126 Nov 05 21:20	19°♊45'27	-5°20'32	inferior conj	9127 Oct 17 09:32	0°♊48'16	-5°38'55
minimum elong	9126 Nov 06 02:54	19°♊36'03	5°19'34	minimum elong	9127 Oct 17 08:39	0°♊49'36	5°38'47
morning rise	9126 Nov 14 03:19	15°♊32'40			9127 Oct 18 18:08	30°♊	
direct	9126 Nov 16 12:41	15°♊15'49		morning rise	9127 Oct 25 19:26	26°♊53'57	
morning max el	9126 Nov 25 12:55	19°♊34'35	19°03'55	direct	9127 Oct 28 15:23	26°♊34'02	
asc. node	9126 Nov 26 14:41	20°♊39'51			9127 Nov 06 09:16	0°♊	
	9126 Dec 03 09:28	0°♊		morning max el	9127 Nov 08 02:54	1°♊30'14	20°12'26
morning set	9126 Dec 12 05:24	16°♊24'18		asc. node	9127 Nov 13 11:39	7°♊47'29	
	9126 Dec 19 02:43	0°♊			9127 Nov 25 23:06	0°♊	
superior conj	9126 Dec 20 12:53	2°♊45'02	1°13'04	morning set	9127 Nov 26 11:08	1°♊01'21	
minimum elong	9126 Dec 20 16:03	3°♊00'12	1°12'58	superior conj	9127 Dec 04 02:14	16°♊38'19	1°29'46
max. Earth dist.	9126 Dec 27 09:08	15°♊28'33	1.38809 AU	minimum elong	9127 Dec 04 04:31	16°♊49'44	1°29'50
desc. node	9126 Dec 30 22:10	21°♊42'56		max. Earth dist.	9127 Dec 09 15:47	27°♊32'56	1.36682 AU
evening rise	9126 Dec 31 04:45	22°♊11'17			9127 Dec 10 22:56	0°♊	
	9127 Jan 04 20:17	0°♊		evening rise	9127 Dec 13 11:18	4°♊38'26	
	9127 Jan 25 03:40	0°♊		desc. node	9127 Dec 17 19:09	12°♊17'53	
evening max el	9127 Feb 04 12:24	12°♊05'53	24°37'24		9127 Dec 28 18:57	0°♊	
retrograde	9127 Feb 16 02:18	18°♊51'46		evening max el	9128 Jan 18 01:41	25°♊54'24	25°49'18
evening set	9127 Feb 21 14:46	16°♊33'43			9128 Jan 22 20:43	0°♊	
asc. node	9127 Feb 22 13:42	15°♊40'53		retrograde	9128 Jan 30 12:58	3°♊02'09	
min. Earth dist.	9127 Feb 26 04:39	11°♊21'59	0.68012 AU	evening set	9128 Feb 05 13:52	0°♊33'48	
inferior conj	9127 Feb 27 03:54	10°♊04'31	1°26'59		9128 Feb 06 05:17	30°♊	
minimum elong	9127 Feb 27 02:04	10°♊10'39	1°26'26	asc. node	9128 Feb 09 10:48	26°♊28'10	
morning rise	9127 Mar 04 13:31	4°♊05'19		min. Earth dist.	9128 Feb 09 20:57	25°♊56'47	0.67193 AU
direct	9127 Mar 08 07:52	2°♊44'03		inferior conj	9128 Feb 11 07:44	24°♊07'04	0°36'46
morning max el	9127 Mar 15 19:05	6°♊55'00	19°52'09	minimum elong	9128 Feb 11 06:49	24°♊09'58	0°36'35
desc. node	9127 Mar 28 22:08	23°♊58'48		morning rise	9128 Feb 17 00:18	18°♊16'39	
greatest brilliancy	9127 Mar 28 22:47	24°♊01'12	-0.6m	direct	9128 Feb 20 07:06	17°♊14'54	
	9127 Apr 01 23:39	0°♊		morning max el	9128 Feb 27 02:23	20°♊57'44	18°55'56
morning set	9127 Apr 11 08:17	14°♊14'09			9128 Mar 05 09:20	0°♊	
	9127 Apr 21 10:37	0°♊		desc. node	9128 Mar 14 18:59	14°♊05'20	
max. Earth dist.	9127 Apr 22 09:40	1°♊31'30	1.44347 AU	morning set	9128 Mar 20 14:27	23°♊06'10	
					9128 Mar 25 00:46	0°♊	
superior conj	9127 Apr 27 13:14	9°♊47'31	-2°12'25	max. Earth dist.	9128 Apr 04 02:11	15°♊42'55	1.45325 AU
minimum elong	9127 Apr 27 13:33	9°♊48'48	2°12'35	superior conj	9128 Apr 06 02:43	18°♊53'35	-2°03'09
	9127 May 09 16:44	0°♊		minimum elong	9128 Apr 05 19:53	18°♊26'46	2°02'51
evening rise	9127 May 10 21:54	2°♊04'07			9128 Apr 13 02:56	0°♊	
asc. node	9127 May 21 12:21	19°♊47'16		evening rise	9128 Apr 21 03:01	12°♊53'27	
evening max el	9127 May 28 21:07	29°♊34'23	18°09'43		9128 May 01 17:45	0°♊	
	9127 May 29 07:45	0°♊		asc. node	9128 May 07 09:25	8°♊19'07	
retrograde	9127 Jun 04 06:13	2°♊55'26		evening max el	9128 May 11 09:38	13°♊04'54	18°31'55
evening set	9127 Jun 07 02:36	2°♊13'14		retrograde	9128 May 17 21:25	16°♊36'25	
	9127 Jun 10 05:41	30°♊		evening set	9128 May 21 01:23	15°♊40'05	
inferior conj	9127 Jun 13 05:37	26°♊57'23	2°51'45				
minimum elong	9127 Jun 13 08:01	26°♊50'52	2°51'02				

inferior conj	9128 May 26 18:45	10° Π 06'59	3°14'49			9129 May 04 05:38	30° \mathbb{R} 8
minimum elong	9128 May 26 19:57	10° Π 03'22	3°14'28	evening set		9129 May 05 05:33	29° \mathbb{B} 25'11
min. Earth dist.	9128 May 28 21:22	7° Π 35'41	0.64957 AU	inferior conj		9129 May 10 16:44	23° \mathbb{B} 36'23 3°21'18
morning rise	9128 Jun 01 13:40	3° Π 49'36		minimum elong		9129 May 10 16:40	23° \mathbb{B} 36'36 3°21'05
direct	9128 Jun 08 04:15	1° Π 05'05		min. Earth dist.		9129 May 12 04:03	21° \mathbb{B} 42'28 0.66511 AU
desc. node	9128 Jun 10 18:53	1° Π 27'36		morning rise		9129 May 16 03:22	17° \mathbb{B} 17'16
morning max el	9128 Jun 21 15:51	9° Π 00'47	27°13'24	direct		9129 May 22 09:24	14° \mathbb{B} 33'03
	9128 Jul 08 00:45	0° \mathbb{E}		desc. node		9129 May 28 15:54	16° \mathbb{B} 42'47
	9128 Jul 25 16:42	0° \mathbb{Q}		morning max el		9129 Jun 04 02:20	22° \mathbb{B} 07'56 26°09'12
morning set	9128 Jul 27 03:52	2° \mathbb{Q} 49'06				9129 Jun 10 23:29	0° Π
max. Earth dist.	9128 Jul 31 16:04	11° \mathbb{Q} 48'40	1.33511 AU			9129 Jul 01 07:02	0° \mathbb{E}
asc. node	9128 Aug 03 08:42	17° \mathbb{Q} 23'37		morning set		9129 Jul 10 03:40	15° \mathbb{E} 38'10
				max. Earth dist.		9129 Jul 14 01:09	23° \mathbb{E} 01'58 1.35128 AU
						9129 Jul 17 13:46	0° \mathbb{Q}
superior conj	9128 Aug 04 11:46	19° \mathbb{Q} 46'10	0°11'18				
minimum elong	9128 Aug 04 11:12	19° \mathbb{Q} 43'10	0°11'00				
behind sun begin	9128 Aug 04 07:07	19° \mathbb{Q} 21'34		superior conj		9129 Jul 19 07:41	3° \mathbb{Q} 32'15 -0°18'58
behind sun end	9128 Aug 04 15:17	20° \mathbb{Q} 04'46		minimum elong		9129 Jul 19 08:48	3° \mathbb{Q} 37'55 0°18'59
	9128 Aug 09 06:49	0° \mathbb{M}		asc. node		9129 Jul 21 05:40	7° \mathbb{Q} 28'14
evening rise	9128 Aug 11 16:48	5° \mathbb{M} 08'32		evening rise		9129 Jul 27 01:05	19° \mathbb{Q} 32'16
	9128 Aug 25 02:43	0° \mathbb{L}				9129 Aug 01 06:22	0° \mathbb{M}
evening max el	9128 Sep 01 12:54	9° \mathbb{L} 12'36	22°00'27	evening max el		9129 Aug 14 12:35	19° \mathbb{M} 51'25 20°33'19
desc. node	9128 Sep 06 17:38	13° \mathbb{L} 18'29		desc. node		9129 Aug 24 14:48	25° \mathbb{M} 21'10
retrograde	9128 Sep 14 05:02	15° \mathbb{L} 30'46		retrograde		9129 Aug 25 17:14	25° \mathbb{M} 24'17
evening set	9128 Sep 17 04:56	15° \mathbb{L} 10'45		evening set		9129 Aug 27 18:44	25° \mathbb{M} 13'46
min. Earth dist.	9128 Sep 25 17:26	11° \mathbb{L} 28'34	0.54789 AU	inferior conj		9129 Sep 05 22:51	21° \mathbb{M} 16'46 -3°37'52
inferior conj	9128 Sep 26 06:10	11° \mathbb{L} 10'45	-5°04'53	minimum elong		9129 Sep 05 13:38	21° \mathbb{M} 30'05 3°34'58
minimum elong	9128 Sep 25 22:04	11° \mathbb{L} 22'05	5°03'22	min. Earth dist.		9129 Sep 07 02:24	20° \mathbb{M} 37'00 0.54762 AU
morning rise	9128 Oct 04 16:38	7° \mathbb{L} 22'59		morning rise		9129 Sep 14 08:11	17° \mathbb{M} 14'55
direct	9128 Oct 08 03:22	6° \mathbb{L} 56'45		direct		9129 Sep 18 11:45	16° \mathbb{M} 38'01
morning max el	9128 Oct 20 03:43	12° \mathbb{L} 36'38	21°42'14	morning max el		9129 Oct 01 18:40	23° \mathbb{M} 02'56 23°26'30
asc. node	9128 Oct 30 08:36	25° \mathbb{L} 48'58				9129 Oct 07 23:01	0° \mathbb{L}
	9128 Nov 01 19:23	0° \mathbb{M}		asc. node		9129 Oct 17 05:33	14° \mathbb{L} 30'36
morning set	9128 Nov 09 20:46	15° \mathbb{M} 47'59		morning set		9129 Oct 25 08:17	0° \mathbb{M} 37'20
	9128 Nov 16 14:04	0° \mathbb{X}				9129 Oct 25 01:14	0° \mathbb{M}
superior conj	9128 Nov 17 01:16	0° \mathbb{X} 58'45	1°38'42	superior conj		9129 Nov 01 06:49	15° \mathbb{M} 36'06 1°40'43
minimum elong	9128 Nov 17 02:17	1° \mathbb{X} 04'04	1°38'53	minimum elong		9129 Nov 01 06:35	15° \mathbb{M} 34'52 1°40'55
max. Earth dist.	9128 Nov 21 04:12	9° \mathbb{X} 27'19	1.34809 AU	max. Earth dist.		9129 Nov 04 00:28	21° \mathbb{M} 26'46 1.33317 AU
evening rise	9128 Nov 25 10:33	17° \mathbb{X} 49'40				9129 Nov 08 03:49	0° \mathbb{X}
	9128 Dec 02 02:37	0° \mathbb{Z}		evening rise		9129 Nov 08 22:37	1° \mathbb{X} 34'14
desc. node	9128 Dec 03 16:12	2° \mathbb{Z} 41'49		desc. node		9129 Nov 20 13:17	22° \mathbb{X} 48'15
	9128 Dec 22 01:23	0° \mathbb{A}				9129 Nov 25 01:00	0° \mathbb{Z}
evening max el	9128 Dec 30 15:08	9° \mathbb{A} 37'28	26°46'24	evening max el		9129 Dec 13 03:50	23° \mathbb{Z} 04'02 27°21'38
retrograde	9129 Jan 12 18:01	16° \mathbb{A} 56'07				9129 Dec 23 18:33	0° \mathbb{A}
evening set	9129 Jan 19 06:30	14° \mathbb{A} 21'35		retrograde		9129 Dec 26 17:01	0° \mathbb{A} 25'07
min. Earth dist.	9129 Jan 23 07:35	10° \mathbb{A} 19'07	0.66003 AU			9129 Dec 29 12:35	30° \mathbb{R} 3
inferior conj	9129 Jan 25 06:05	8° \mathbb{A} 03'00	-0°21'31	evening set		9130 Jan 02 14:28	27° \mathbb{Z} 50'43
minimum elong	9129 Jan 25 06:41	8° \mathbb{A} 01'15	0°21'02	min. Earth dist.		9130 Jan 06 10:22	24° \mathbb{Z} 21'18 0.64458 AU
asc. node	9129 Jan 26 07:54	6° \mathbb{A} 48'12		inferior conj		9130 Jan 08 20:31	21° \mathbb{Z} 46'16 -1°27'04
morning rise	9129 Jan 31 07:53	2° \mathbb{A} 23'45		minimum elong		9130 Jan 08 23:12	21° \mathbb{Z} 39'05 1°25'42
direct	9129 Feb 03 04:41	1° \mathbb{A} 38'22		asc. node		9130 Jan 13 05:00	17° \mathbb{Z} 38'46
morning max el	9129 Feb 09 15:49	5° \mathbb{A} 05'13	18°16'06	morning rise		9130 Jan 15 09:36	16° \mathbb{Z} 21'00
	9129 Feb 26 21:12	0° \mathbb{H}		direct		9130 Jan 17 22:15	15° \mathbb{Z} 48'16
morning set	9129 Feb 28 22:46	3° \mathbb{H} 19'15		morning max el		9130 Jan 24 08:44	19° \mathbb{Z} 10'01 17°53'13
desc. node	9129 Mar 01 15:53	4° \mathbb{H} 27'58				9130 Feb 01 10:58	0° \mathbb{A}
				morning set		9130 Feb 10 12:08	14° \mathbb{A} 57'40
				desc. node		9130 Feb 16 12:47	25° \mathbb{A} 01'34
						9130 Feb 19 13:23	0° \mathbb{H}
superior conj	9129 Mar 16 08:01	27° \mathbb{H} 44'44	-1°34'15				
minimum elong	9129 Mar 15 22:28	27° \mathbb{H} 07'19	1°33'15				
	9129 Mar 17 18:33	0° \mathbb{Y}					
max. Earth dist.	9129 Mar 17 21:56	0° \mathbb{Y} 13'13	1.45569 AU	superior conj		9130 Feb 24 00:12	7° \mathbb{H} 12'23 -0°52'51
evening rise	9129 Apr 01 09:09	22° \mathbb{Y} 49'00		minimum elong		9130 Feb 23 18:14	6° \mathbb{H} 48'26 0°51'55
	9129 Apr 05 23:31	0° \mathbb{B}		max. Earth dist.		9130 Feb 28 17:25	14° \mathbb{H} 42'46 1.45061 AU
greatest brilliancy	9129 Apr 12 13:19	10° \mathbb{B} 10'25	-0.8m			9130 Mar 10 13:00	0° \mathbb{Y}
asc. node	9129 Apr 24 06:31	26° \mathbb{B} 10'11		evening rise		9130 Mar 11 23:22	2° \mathbb{Y} 12'04
evening max el	9129 Apr 24 18:45	26° \mathbb{B} 41'47	19°11'26	greatest brilliancy		9130 Mar 26 21:33	24° \mathbb{Y} 40'40 -0.6m
	9129 Apr 29 03:34	0° Π				9130 Mar 30 14:59	0° \mathbb{B}
retrograde	9129 May 01 17:39	0° Π 36'24		evening max el		9130 Apr 07 22:49	10° \mathbb{B} 21'26 20°06'43

asc. node	9130 Apr 11 03:39	13°♄08'12		max. Earth dist.	9131 Feb 11 10:05	28°♁55'07	1.43877 AU
retrograde	9130 Apr 15 16:09	14°♄49'36			9131 Feb 12 02:14	0°♄	
evening set	9130 Apr 19 12:44	13°♄23'13		evening rise	9131 Feb 19 11:47	11°♄38'49	
inferior conj	9130 Apr 24 20:40	7°♄20'37	3°14'30		9131 Mar 03 16:04	0°♄	
minimum elong	9130 Apr 24 19:32	7°♄24'26	3°14'13	evening max el	9131 Mar 21 21:20	24°♄02'04	21°15'01
min. Earth dist.	9130 Apr 25 17:34	6°♄09'45	0.67621 AU	asc. node	9131 Mar 29 00:48	28°♄57'48	
morning rise	9130 Apr 30 02:05	1°♄02'52		retrograde	9131 Mar 30 14:36	29°♄10'17	
	9130 May 01 09:19	30°♄		evening set	9131 Apr 03 20:59	27°♄28'42	
direct	9130 May 05 20:22	28°♄28'41		inferior conj	9131 Apr 09 04:04	21°♄14'34	2°56'33
	9130 May 10 19:26	0°♄		minimum elong	9131 Apr 09 02:12	21°♄21'03	2°56'06
desc. node	9130 May 15 12:52	3°♄34'15		min. Earth dist.	9131 Apr 09 11:39	20°♄48'11	0.68284 AU
morning max el	9130 May 17 11:58	5°♄27'50	24°47'17	morning rise	9131 Apr 14 07:13	15°♄00'13	
	9130 Jun 05 10:18	0°♄		direct	9131 Apr 19 12:10	12°♄43'05	
morning set	9130 Jun 22 10:16	27°♄37'20		morning max el	9131 Apr 29 21:29	18°♄54'00	23°17'45
	9130 Jun 23 18:22	0°♄		desc. node	9131 May 02 09:47	21°♄35'09	
max. Earth dist.	9130 Jun 26 00:57	4°♄07'14	1.37149 AU		9131 May 09 05:39	0°♄	
					9131 May 29 13:33	0°♄	
superior conj	9130 Jul 02 17:14	16°♄45'47	-0°51'12	morning set	9131 Jun 03 18:07	8°♄31'21	
minimum elong	9130 Jul 02 20:27	17°♄01'28	0°50'53	max. Earth dist.	9131 Jun 07 20:57	15°♄33'04	1.39397 AU
asc. node	9130 Jul 08 02:40	27°♄28'10					
	9130 Jul 09 08:52	0°♄		superior conj	9131 Jun 15 12:29	29°♄16'48	-1°23'03
evening rise	9130 Jul 11 04:23	3°♄38'34		minimum elong	9131 Jun 15 17:44	29°♄41'07	1°22'34
	9130 Jul 26 21:14	0°♄			9131 Jun 15 21:48	0°♄	
evening max el	9130 Jul 28 01:50	1°♄15'02	19°25'23	evening rise	9131 Jun 24 23:41	17°♄18'48	
retrograde	9130 Aug 06 13:38	5°♄56'55		asc. node	9131 Jun 24 23:40	17°♄18'46	
evening set	9130 Aug 08 09:54	5°♄47'02			9131 Jul 01 18:19	0°♄	
desc. node	9130 Aug 11 11:56	4°♄50'18		evening max el	9131 Jul 11 02:46	13°♄22'42	18°38'30
inferior conj	9130 Aug 17 02:16	1°♄40'15	-1°43'26	retrograde	9131 Jul 19 03:14	17°♄22'10	
minimum elong	9130 Aug 16 21:37	1°♄47'47	1°41'47	evening set	9131 Jul 21 04:14	17°♄07'32	
min. Earth dist.	9130 Aug 19 14:47	0°♄02'33	0.55683 AU	inferior conj	9131 Jul 29 01:34	12°♄42'28	0°05'41
	9130 Aug 19 16:24	30°♄		minimum elong	9131 Jul 29 01:47	12°♄42'04	0°05'23
morning rise	9130 Aug 25 06:42	27°♄06'05		transit middle	9131 Jul 29 01:47	12°♄42'04	0°05'23
direct	9130 Aug 30 05:42	26°♄10'27		transit begin	9131 Jul 28 22:21	12°♄48'33	
	9130 Sep 09 10:02	0°♄		transit end	9131 Jul 29 05:12	12°♄35'35	
morning max el	9130 Sep 13 06:50	3°♄14'41	25°11'13	desc. node	9131 Jul 29 09:04	12°♄28'15	
	9130 Oct 02 03:36	0°♄		min. Earth dist.	9131 Aug 01 07:48	10°♄15'48	0.57374 AU
asc. node	9130 Oct 04 02:31	3°♄42'24		morning rise	9131 Aug 05 19:48	7°♄31'12	
morning set	9130 Oct 09 19:56	15°♄24'20		direct	9131 Aug 11 14:22	6°♄08'16	
				morning max el	9131 Aug 25 22:27	13°♄40'51	26°39'17
superior conj	9130 Oct 16 16:23	0°♄22'49	1°36'33		9131 Sep 07 21:21	0°♄	
minimum elong	9130 Oct 16 15:07	0°♄15'52	1°36'37	asc. node	9131 Sep 20 23:27	23°♄16'17	
	9130 Oct 16 12:14	0°♄		morning set	9131 Sep 24 06:04	0°♄04'21	
max. Earth dist.	9130 Oct 18 04:05	3°♄38'32	1.32272 AU		9131 Sep 24 05:15	0°♄	
evening rise	9130 Oct 23 20:13	15°♄43'36					
	9130 Oct 31 03:51	0°♄		superior conj	9131 Oct 01 03:55	15°♄12'26	1°26'45
desc. node	9130 Nov 07 10:23	12°♄29'41		minimum elong	9131 Oct 01 01:57	15°♄01'32	1°26'36
	9130 Nov 19 22:34	0°♄		max. Earth dist.	9131 Oct 01 12:36	16°♄00'37	1.31695 AU
evening max el	9130 Nov 25 14:07	6°♄02'26	27°28'34		9131 Oct 07 22:37	0°♄	
retrograde	9130 Dec 09 09:14	13°♄19'48		evening rise	9131 Oct 08 00:34	0°♄10'15	
evening set	9130 Dec 16 10:53	10°♄54'24			9131 Oct 24 06:17	0°♄	
min. Earth dist.	9130 Dec 20 03:36	7°♄53'38	0.62610 AU	desc. node	9131 Oct 25 07:30	1°♄36'11	
inferior conj	9130 Dec 23 00:10	5°♄10'04	-2°37'51	evening max el	9131 Nov 07 19:37	18°♄20'35	27°02'29
minimum elong	9130 Dec 23 05:16	4°♄57'52	2°35'38	retrograde	9131 Nov 21 17:24	25°♄31'00	
morning rise	9130 Dec 30 01:54	0°♄01'40		evening set	9131 Nov 28 15:59	23°♄25'02	
	9130 Dec 30 03:53	30°♄		min. Earth dist.	9131 Dec 02 10:18	20°♄44'10	0.60559 AU
asc. node	9130 Dec 31 02:05	29°♄45'20		inferior conj	9131 Dec 05 13:44	18°♄05'57	-3°49'27
direct	9131 Jan 01 08:43	29°♄37'48		minimum elong	9131 Dec 05 20:52	17°♄50'56	3°46'56
	9131 Jan 03 12:55	0°♄		morning rise	9131 Dec 13 04:14	13°♄17'27	
morning max el	9131 Jan 08 02:03	3°♄04'02	17°47'51	direct	9131 Dec 15 08:29	12°♄58'48	
morning set	9131 Jan 24 01:13	27°♄44'08		asc. node	9131 Dec 17 23:08	13°♄26'47	
	9131 Jan 25 08:01	0°♄		morning max el	9131 Dec 22 16:20	16°♄38'16	18°01'10
desc. node	9131 Feb 03 09:40	15°♄42'01			9132 Jan 01 01:42	0°♄	
				morning set	9132 Jan 07 07:39	11°♄19'41	
superior conj	9131 Feb 04 15:35	17°♄47'50	-0°09'14				
minimum elong	9131 Feb 04 14:41	17°♄44'02	0°08'54	superior conj	9132 Jan 17 08:09	29°♄35'12	0°29'19
behind sun begin	9131 Feb 04 07:05	17°♄12'10		minimum elong	9132 Jan 17 10:26	29°♄45'19	0°29'13
behind sun end	9131 Feb 04 22:16	18°♄15'51			9132 Jan 17 13:46	0°♄	

desc. node	9132 Jan 21 06:36	6° \approx 26'05		minimum elong	9132 Dec 30 01:17	12° \approx 37'47	0°59'27
max. Earth dist.	9132 Jan 24 22:38	12° \approx 37'38	1.42151 AU	max. Earth dist.	9133 Jan 06 06:51	25° \approx 39'50	1.40071 AU
evening rise	9132 Jan 30 13:03	21° \approx 45'01		desc. node	9133 Jan 07 03:33	27° \approx 09'32	
	9132 Feb 04 19:24	0° \approx			9133 Jan 08 19:23	0° \approx	
	9132 Feb 25 21:21	0° \approx		evening rise	9133 Jan 10 10:46	2° \approx 45'57	
evening max el	9132 Mar 03 15:06	7° \approx 45'15	22°32'01		9133 Jan 28 02:00	0° \approx	
retrograde	9132 Mar 13 11:16	13° \approx 34'51		evening max el	9133 Feb 14 05:40	21° \approx 31'04	23°52'15
asc. node	9132 Mar 14 21:57	13° \approx 24'27		retrograde	9133 Feb 25 04:49	27° \approx 58'16	
evening set	9132 Mar 18 04:40	11° \approx 38'13		asc. node	9133 Mar 01 19:04	26° \approx 17'46	
inferior conj	9132 Mar 23 12:53	5° \approx 15'25	2°28'49	evening set	9133 Mar 02 10:16	25° \approx 47'24	
minimum elong	9132 Mar 23 10:41	5° \approx 23'06	2°28'13	min. Earth dist.	9133 Mar 07 04:35	20° \approx 16'02	0.68318 AU
min. Earth dist.	9132 Mar 23 08:06	5° \approx 32'04	0.68514 AU	inferior conj	9133 Mar 07 21:13	19° \approx 19'26	1°52'04
	9132 Mar 27 17:16	30° \approx 11'11		minimum elong	9133 Mar 07 19:06	19° \approx 26'39	1°51'27
morning rise	9132 Mar 28 16:32	29° \approx 05'58		morning rise	9133 Mar 13 03:57	13° \approx 16'16	
direct	9132 Apr 02 07:42	27° \approx 09'56		direct	9133 Mar 17 05:40	11° \approx 42'36	
	9132 Apr 08 16:37	0° \approx		morning max el	9133 Mar 25 05:12	16° \approx 14'40	20°31'25
morning max el	9132 Apr 11 10:05	2° \approx 28'26	21°50'01	desc. node	9133 Apr 05 03:33	29° \approx 54'37	
desc. node	9132 Apr 18 06:41	10° \approx 26'37			9133 Apr 05 05:05	0° \approx	
	9132 May 02 04:39	0° \approx		morning set	9133 Apr 23 04:01	26° \approx 46'51	
morning set	9132 May 13 22:57	18° \approx 10'15			9133 Apr 25 05:39	0° \approx	
max. Earth dist.	9132 May 19 20:37	27° \approx 47'56	1.41610 AU	max. Earth dist.	9133 May 02 03:45	10° \approx 58'40	1.43500 AU
	9132 May 21 04:15	0° \approx					
superior conj	9132 May 27 12:56	10° \approx 55'00	-1°50'43	superior conj	9133 May 08 14:13	21° \approx 31'03	-2°08'50
minimum elong	9132 May 27 18:58	11° \approx 21'27	1°50'25	minimum elong	9133 May 08 17:52	21° \approx 46'13	2°08'55
evening rise	9132 Jun 07 07:19	0° \approx 23'59			9133 May 13 14:52	0° \approx	
	9132 Jun 07 02:07	0° \approx		evening rise	9133 May 20 22:51	12° \approx 43'47	
asc. node	9132 Jun 10 20:42	6° \approx 55'33		asc. node	9133 May 28 17:44	26° \approx 13'08	
evening max el	9132 Jun 23 11:32	26° \approx 05'33	18°12'03		9133 May 31 01:30	0° \approx	
retrograde	9132 Jun 30 11:49	29° \approx 38'00		evening max el	9133 Jun 07 00:16	9° \approx 13'42	18°05'07
evening set	9132 Jul 02 20:20	29° \approx 14'41		retrograde	9133 Jun 13 11:57	12° \approx 34'55	
inferior conj	9132 Jul 09 22:30	24° \approx 28'45	1°31'03	evening set	9133 Jun 16 04:03	12° \approx 00'10	
minimum elong	9132 Jul 10 01:08	24° \approx 22'57	1°29'56	inferior conj	9133 Jun 22 14:20	6° \approx 54'31	2°29'17
min. Earth dist.	9132 Jul 13 07:09	21° \approx 32'14	0.59515 AU	minimum elong	9133 Jun 22 17:11	6° \approx 47'16	2°28'19
desc. node	9132 Jul 15 06:10	19° \approx 59'59		min. Earth dist.	9133 Jun 25 14:56	3° \approx 51'33	0.61767 AU
morning rise	9132 Jul 17 02:52	18° \approx 46'24		morning rise	9133 Jun 29 04:10	0° \approx 51'10	
direct	9132 Jul 23 12:11	16° \approx 52'46			9133 Jun 30 12:34	30° \approx 11'11	
morning max el	9132 Aug 06 20:42	24° \approx 43'32	27°36'39	desc. node	9133 Jul 02 03:13	29° \approx 13'47	
	9132 Aug 11 16:31	0° \approx		direct	9133 Jul 05 20:58	28° \approx 13'017	
	9132 Aug 31 05:00	0° \approx			9133 Jul 11 13:59	0° \approx	
asc. node	9132 Sep 06 20:21	13° \approx 05'39		morning max el	9133 Jul 20 01:37	6° \approx 31'24	27°56'21
morning set	9132 Sep 07 12:57	14° \approx 32'18			9133 Aug 06 20:11	0° \approx	
max. Earth dist.	9132 Sep 13 22:31	28° \approx 24'26	1.31590 AU	morning set	9133 Aug 22 14:43	28° \approx 43'04	
					9133 Aug 23 05:41	0° \approx	
superior conj	9132 Sep 14 15:32	29° \approx 58'47	1°11'42	asc. node	9133 Aug 24 17:15	3° \approx 05'22	
minimum elong	9132 Sep 14 13:17	29° \approx 46'20	1°11'20	max. Earth dist.	9133 Aug 28 06:02	10° \approx 39'13	1.31955 AU
	9132 Sep 14 15:45	0° \approx					
evening rise	9132 Sep 21 09:17	14° \approx 47'05		superior conj	9133 Aug 30 01:28	14° \approx 36'39	0°51'44
	9132 Sep 28 22:20	0° \approx		minimum elong	9133 Aug 29 23:26	14° \approx 25'28	0°51'15
desc. node	9132 Oct 11 04:39	19° \approx 53'22		evening rise	9133 Sep 05 20:23	29° \approx 28'11	
evening max el	9132 Oct 19 17:40	29° \approx 48'12	26°02'40		9133 Sep 06 02:19	0° \approx	
	9132 Oct 19 22:41	0° \approx			9133 Sep 22 14:39	0° \approx	
retrograde	9132 Nov 02 15:40	6° \approx 51'31		desc. node	9133 Sep 28 01:47	7° \approx 02'09	
evening set	9132 Nov 09 00:58	5° \approx 14'31		evening max el	9133 Oct 01 07:44	10° \approx 27'04	24°35'49
min. Earth dist.	9132 Nov 13 06:31	2° \approx 39'38	0.58472 AU	retrograde	9133 Oct 15 02:33	17° \approx 22'36	
inferior conj	9132 Nov 16 09:35	0° \approx 23'00	-4°53'08	evening set	9133 Oct 20 09:46	16° \approx 20'04	
minimum elong	9132 Nov 16 16:49	0° \approx 09'46	4°51'21	min. Earth dist.	9133 Oct 25 18:46	13° \approx 32'31	0.56593 AU
	9132 Nov 16 22:11	30° \approx 11'11		inferior conj	9133 Oct 28 09:13	11° \approx 53'20	-5°33'45
morning rise	9132 Nov 24 11:00	25° \approx 56'58		minimum elong	9133 Oct 28 12:32	11° \approx 48'03	5°33'20
direct	9132 Nov 26 17:08	25° \approx 40'14		morning rise	9133 Nov 05 17:29	7° \approx 49'36	
asc. node	9132 Dec 03 20:08	28° \approx 39'05		direct	9133 Nov 08 06:53	7° \approx 31'45	
morning max el	9132 Dec 04 23:54	29° \approx 41'45	18°34'46	morning max el	9133 Nov 17 21:10	12° \approx 04'49	19°30'21
	9132 Dec 05 07:19	0° \approx		asc. node	9133 Nov 20 17:06	15° \approx 09'13	
morning set	9132 Dec 21 02:00	25° \approx 27'27			9133 Nov 30 02:20	0° \approx	
	9132 Dec 23 10:17	0° \approx		morning set	9133 Dec 05 04:26	9° \approx 56'18	
superior conj	9132 Dec 29 22:00	12° \approx 22'28	0°59'38	superior conj	9133 Dec 13 04:08	25° \approx 55'42	1°21'09
				minimum elong	9133 Dec 13 06:59	26° \approx 09'43	1°21'07

	9133 Dec 15 06:25	0°♄		minimum elong	9134 Nov 26 23:48	10°♄10'57	1°34'35
max. Earth dist.	9133 Dec 19 12:42	8°♄01'10	1.37885 AU	max. Earth dist.	9134 Dec 01 20:53	19°♄56'55	1.35837 AU
evening rise	9133 Dec 23 06:00	14°♄43'10		evening rise	9134 Dec 05 20:06	27°♄30'08	
desc. node	9133 Dec 25 00:33	17°♄48'47			9134 Dec 07 04:39	0°♄	
	9134 Jan 01 08:58	0°♄		desc. node	9134 Dec 11 21:35	8°♄19'45	
	9134 Jan 22 20:40	0°♄			9134 Dec 25 17:23	0°♄	
evening max el	9134 Jan 27 18:50	5°♄18'48	25°09'15	evening max el	9135 Jan 10 08:00	19°♄05'27	26°15'51
retrograde	9134 Feb 08 18:17	12°♄15'23		retrograde	9135 Jan 23 02:52	26°♄20'04	
evening set	9134 Feb 14 12:13	9°♄52'13		evening set	9135 Jan 29 08:52	23°♄48'15	
asc. node	9134 Feb 16 16:11	7°♄43'15		min. Earth dist.	9135 Feb 02 13:11	19°♄26'04	0.66722 AU
min. Earth dist.	9134 Feb 18 23:00	4°♄55'33	0.67713 AU	asc. node	9135 Feb 03 13:17	18°♄12'25	
inferior conj	9134 Feb 20 03:14	3°♄23'27	1°06'42	inferior conj	9135 Feb 04 05:01	17°♄23'59	0°13'00
minimum elong	9134 Feb 20 01:43	3°♄28'25	1°06'16	minimum elong	9135 Feb 04 04:40	17°♄25'04	0°13'04
	9134 Feb 22 21:02	30°♄		transit middle	9135 Feb 04 04:40	17°♄25'04	0°13'04
morning rise	9134 Feb 25 15:32	27°♄28'02		transit begin	9135 Feb 04 02:59	17°♄30'13	
direct	9134 Mar 01 04:47	26°♄15'31		transit end	9135 Feb 04 06:21	17°♄19'55	
	9134 Mar 08 03:02	0°♄		morning rise	9135 Feb 10 01:15	11°♄38'10	
morning max el	9134 Mar 08 08:17	0°♄12'49	19°26'20	direct	9135 Feb 13 03:29	10°♄44'00	
greatest brilliancy	9134 Mar 21 02:56	16°♄59'42	-0.7m	morning max el	9135 Feb 19 18:33	14°♄18'57	18°36'59
desc. node	9134 Mar 23 00:26	19°♄49'19			9135 Mar 03 10:26	0°♄	
	9134 Mar 29 17:13	0°♄		desc. node	9135 Mar 09 21:19	10°♄03'36	
morning set	9134 Apr 02 02:41	5°♄13'11		morning set	9135 Mar 12 18:42	14°♄36'37	
max. Earth dist.	9134 Apr 14 17:20	24°♄52'13	1.44846 AU		9135 Mar 22 13:53	0°♄	
	9134 Apr 17 22:56	0°♄					
superior conj	9134 Apr 18 15:08	1°♄04'37	-2°11'01	superior conj	9135 Mar 28 23:04	9°♄59'17	-1°53'02
minimum elong	9134 Apr 18 12:22	0°♄53'33	2°11'04	minimum elong	9135 Mar 28 14:12	9°♄24'38	1°52'24
evening rise	9134 May 02 17:34	24°♄08'04		max. Earth dist.	9135 Mar 28 11:06	9°♄12'28	1.45511 AU
	9134 May 06 05:52	0°♄			9135 Apr 10 15:54	0°♄	
asc. node	9134 May 15 14:48	15°♄04'18		evening rise	9135 Apr 13 12:39	4°♄33'39	
evening max el	9134 May 21 13:38	22°♄38'01	18°16'54	greatest brilliancy	9135 Apr 21 16:43	17°♄34'27	-0.8m
retrograde	9134 May 27 22:56	26°♄02'18			9135 Apr 29 22:37	0°♄	
evening set	9134 May 30 22:26	25°♄14'19		asc. node	9135 May 02 11:55	3°♄20'53	
inferior conj	9134 Jun 05 20:52	19°♄50'46	3°03'50	evening max el	9135 May 05 00:59	6°♄12'30	18°46'40
minimum elong	9134 Jun 05 22:47	19°♄45'17	3°03'17	retrograde	9135 May 11 16:42	9°♄52'39	
min. Earth dist.	9134 Jun 08 08:09	17°♄02'55	0.63877 AU	evening set	9135 May 14 23:52	8°♄50'15	
morning rise	9134 Jun 11 21:53	13°♄36'11		inferior conj	9135 May 20 14:14	3°♄10'28	3°19'22
direct	9134 Jun 18 15:00	10°♄56'50		minimum elong	9135 May 20 14:53	3°♄08'26	3°19'05
desc. node	9134 Jun 19 00:15	10°♄57'19		min. Earth dist.	9135 May 22 10:23	0°♄53'39	0.65668 AU
morning max el	9134 Jul 02 10:47	18°♄58'51	27°38'33		9135 May 23 04:20	30°♄	
	9134 Jul 11 18:30	0°♄		morning rise	9135 May 26 05:14	26°♄51'38	
	9134 Jul 30 19:07	0°♄		direct	9135 Jun 01 16:42	24°♄05'36	
morning set	9134 Aug 06 08:55	12°♄29'06		desc. node	9135 Jun 05 21:16	25°♄03'49	
max. Earth dist.	9134 Aug 11 06:57	22°♄32'13	1.32801 AU		9135 Jun 12 21:46	0°♄	
asc. node	9134 Aug 11 14:10	23°♄10'12		morning max el	9135 Jun 14 21:20	1°♄55'04	26°48'48
					9135 Jul 05 22:18	0°♄	
superior conj	9134 Aug 14 07:46	28°♄59'26	0°27'14	morning set	9135 Jul 20 16:34	25°♄42'22	
minimum elong	9134 Aug 14 06:30	28°♄52'34	0°26'48		9135 Jul 22 21:55	0°♄	
	9134 Aug 14 19:02	0°♄		max. Earth dist.	9135 Jul 24 21:59	3°♄57'57	1.34143 AU
evening rise	9134 Aug 21 07:54	14°♄06'54					
	9134 Aug 29 06:12	0°♄		superior conj	9135 Jul 29 08:16	13°♄01'24	-0°01'12
evening max el	9134 Sep 12 18:43	20°♄38'33	22°56'28	minimum elong	9135 Jul 29 08:21	13°♄01'48	0°01'24
desc. node	9134 Sep 14 22:57	22°♄36'06		behind sun begin	9135 Jul 29 02:38	12°♄32'01	
retrograde	9134 Sep 26 01:22	27°♄16'14		behind sun end	9135 Jul 29 14:04	13°♄31'37	
evening set	9134 Sep 29 20:39	26°♄44'35		asc. node	9135 Jul 29 11:08	13°♄16'21	
min. Earth dist.	9134 Oct 07 03:18	23°♄26'13	0.55223 AU	evening rise	9135 Aug 05 17:58	28°♄37'59	
inferior conj	9134 Oct 08 13:43	22°♄36'42	-5°31'31		9135 Aug 06 09:40	0°♄	
minimum elong	9134 Oct 08 09:25	22°♄42'54	5°31'03		9135 Aug 24 12:34	0°♄	
morning rise	9134 Oct 17 00:09	18°♄47'27		evening max el	9135 Aug 25 11:50	0°♄59'30	21°21'18
direct	9134 Oct 20 01:47	18°♄25'27		desc. node	9135 Sep 01 20:06	6°♄04'23	
morning max el	9134 Oct 31 05:34	23°♄39'40	20°48'23	retrograde	9135 Sep 06 14:32	6°♄59'51	
	9134 Nov 05 17:09	0°♄		evening set	9135 Sep 09 02:25	6°♄45'31	
asc. node	9134 Nov 07 14:04	2°♄41'19		inferior conj	9135 Sep 18 06:55	2°♄48'40	-4°33'26
morning set	9134 Nov 19 12:04	24°♄37'59		minimum elong	9135 Sep 17 21:24	3°♄02'02	4°31'04
	9134 Nov 22 02:00	0°♄		min. Earth dist.	9135 Sep 18 11:41	2°♄41'59	0.54660 AU
					9135 Sep 23 17:16	30°♄	
superior conj	9134 Nov 26 22:03	10°♄01'58	1°34'26	morning rise	9135 Sep 26 17:05	28°♄57'05	
				direct	9135 Sep 30 10:38	28°♄26'59	

	9135 Oct 06 19:45	0°♄		direct	9136 Sep 09 22:29	8°♄01'17	
morning max el	9135 Oct 13 01:32	4°♄27'08	22°25'29	morning max el	9136 Sep 23 14:13	14°♄43'46	24°11'55
asc. node	9135 Oct 25 11:02	21°♄01'21			9136 Oct 05 13:57	0°♄	
	9135 Oct 30 07:50	0°♄		asc. node	9136 Oct 11 07:59	9°♄57'41	
morning set	9135 Nov 03 22:41	9°♄26'07		morning set	9136 Oct 18 10:30	24°♄15'50	
					9136 Oct 21 02:21	0°♄	
superior conj	9135 Nov 11 00:10	24°♄30'34	1°40'20				
minimum elong	9135 Nov 11 00:38	24°♄33'05	1°40'33	superior conj	9136 Oct 25 07:43	9°♄13'24	1°39'40
	9135 Nov 13 14:51	0°♄		minimum elong	9136 Oct 25 07:01	9°♄09'35	1°39'49
max. Earth dist.	9135 Nov 14 12:15	1°♄50'39	1.34119 AU	max. Earth dist.	9136 Oct 27 12:07	13°♄56'57	1.32821 AU
evening rise	9135 Nov 19 01:15	10°♄56'52		evening rise	9136 Nov 01 17:50	24°♄54'06	
desc. node	9135 Nov 28 18:39	28°♄37'05			9136 Nov 04 07:23	0°♄	
	9135 Nov 29 14:24	0°♄		desc. node	9136 Nov 14 15:44	18°♄34'36	
	9135 Dec 21 05:00	0°♄			9136 Nov 22 02:32	0°♄	
evening max el	9135 Dec 23 21:21	2°♄43'13	27°04'39	evening max el	9136 Dec 05 09:34	16°♄00'46	27°28'28
retrograde	9136 Jan 06 05:37	10°♄04'17		retrograde	9136 Dec 19 01:37	23°♄20'02	
evening set	9136 Jan 12 22:08	7°♄29'06		evening set	9136 Dec 26 01:33	20°♄48'41	
min. Earth dist.	9136 Jan 16 20:54	3°♄40'45	0.65375 AU	min. Earth dist.	9136 Dec 29 19:55	17°♄31'57	0.63706 AU
inferior conj	9136 Jan 19 00:20	1°♄15'33	-0°48'32	inferior conj	9137 Jan 01 10:36	14°♄52'11	-1°56'38
minimum elong	9136 Jan 19 01:45	1°♄11'31	0°47'42	minimum elong	9137 Jan 01 14:17	14°♄42'44	1°54'52
	9136 Jan 20 03:24	30°♄		asc. node	9137 Jan 07 07:29	9°♄57'50	
asc. node	9136 Jan 21 10:24	28°♄38'30		morning rise	9137 Jan 08 04:54	9°♄33'23	
morning rise	9136 Jan 25 06:42	25°♄41'40		direct	9137 Jan 10 14:50	9°♄04'46	
direct	9136 Jan 27 23:42	25°♄02'12		morning max el	9137 Jan 17 03:12	12°♄27'15	17°48'42
morning max el	9136 Feb 03 09:47	28°♄26'03	18°04'14		9137 Jan 29 04:59	0°♄	
	9136 Feb 04 21:04	0°♄		morning set	9137 Feb 02 16:00	7°♄37'36	
morning set	9136 Feb 21 15:42	25°♄27'13		desc. node	9137 Feb 10 15:07	21°♄08'38	
	9136 Feb 24 10:30	0°♄					
desc. node	9136 Feb 24 18:12	0°♄31'22		superior conj	9137 Feb 15 07:54	28°♄54'11	-0°34'05
				minimum elong	9137 Feb 15 04:12	28°♄39'02	0°33'22
superior conj	9136 Mar 07 06:47	19°♄00'11	-1°17'36		9137 Feb 16 00:04	0°♄	
minimum elong	9136 Mar 06 22:12	18°♄26'20	1°16'31	max. Earth dist.	9137 Feb 21 01:42	8°♄08'58	1.44641 AU
max. Earth dist.	9136 Mar 10 06:46	23°♄43'25	1.45438 AU	evening rise	9137 Mar 02 22:04	23°♄31'17	
	9136 Mar 14 07:07	0°♄			9137 Mar 07 04:00	0°♄	
evening rise	9136 Mar 23 10:33	14°♄11'08			9137 Mar 28 06:05	0°♄	
	9136 Apr 02 17:34	0°♄		evening max el	9137 Mar 31 09:57	3°♄31'40	20°34'26
greatest brilliancy	9136 Apr 05 13:56	4°♄17'12	-0.7m	asc. node	9137 Apr 05 06:11	7°♄22'13	
evening max el	9136 Apr 17 08:11	19°♄51'21	19°33'13	retrograde	9137 Apr 08 12:42	8°♄15'47	
asc. node	9136 Apr 18 09:03	20°♄51'19		evening set	9137 Apr 12 13:25	6°♄42'46	
retrograde	9136 Apr 24 14:06	23°♄58'51		inferior conj	9137 Apr 17 20:43	0°♄35'04	3°08'06
evening set	9136 Apr 28 05:34	22°♄41'17		minimum elong	9137 Apr 17 19:14	0°♄40'09	3°07'46
inferior conj	9136 May 03 15:04	16°♄46'40	3°19'51		9137 Apr 18 06:55	30°♄	
minimum elong	9136 May 03 14:31	16°♄48'28	3°19'38	min. Earth dist.	9137 Apr 18 11:47	29°♄43'18	0.67963 AU
min. Earth dist.	9136 May 04 20:12	15°♄10'28	0.67042 AU	morning rise	9137 Apr 23 00:51	24°♄18'50	
morning rise	9136 May 08 23:08	10°♄27'57		direct	9137 Apr 28 13:39	21°♄51'18	
direct	9136 May 15 00:37	7°♄46'41		morning max el	9137 May 09 16:29	28°♄30'14	24°09'34
desc. node	9136 May 22 18:14	11°♄03'24		desc. node	9137 May 09 15:11	28°♄26'55	
morning max el	9136 May 27 07:16	15°♄07'57	25°35'51		9137 May 11 02:51	0°♄	
	9136 Jun 08 11:44	0°♄			9137 Jun 02 05:21	0°♄	
	9136 Jun 27 18:43	0°♄		morning set	9137 Jun 14 07:15	19°♄45'03	
morning set	9136 Jul 02 09:42	8°♄12'09		max. Earth dist.	9137 Jun 18 00:02	26°♄15'25	1.38094 AU
max. Earth dist.	9136 Jul 06 02:25	15°♄03'56	1.35948 AU		9137 Jun 20 01:43	0°♄	
superior conj	9136 Jul 12 00:15	26°♄35'25	-0°32'31	superior conj	9137 Jun 25 04:15	9°♄32'22	-1°04'55
minimum elong	9136 Jul 12 02:13	26°♄45'17	0°32'22	minimum elong	9137 Jun 25 08:23	9°♄52'07	1°04'30
	9136 Jul 13 16:51	0°♄		asc. node	9137 Jul 02 05:09	23°♄16'42	
asc. node	9136 Jul 15 08:08	3°♄19'59		evening rise	9137 Jul 04 00:45	26°♄52'10	
evening rise	9136 Jul 20 00:27	12°♄55'34			9137 Jul 05 15:00	0°♄	
	9136 Jul 28 23:00	0°♄		evening max el	9137 Jul 20 12:03	23°♄40'57	19°02'50
evening max el	9136 Aug 06 17:28	11°♄57'49	20°01'53	retrograde	9137 Jul 29 07:34	28°♄03'18	
retrograde	9136 Aug 17 04:19	17°♄08'02		evening set	9137 Jul 31 05:14	27°♄51'52	
desc. node	9136 Aug 18 17:14	17°♄01'47		desc. node	9137 Aug 05 14:22	25°♄35'00	
evening set	9136 Aug 19 02:01	16°♄58'31		inferior conj	9137 Aug 08 13:50	23°♄37'32	-0°55'00
inferior conj	9136 Aug 28 02:38	12°♄59'06	-2°50'34	minimum elong	9137 Aug 08 11:28	23°♄41'37	0°54'15
minimum elong	9136 Aug 27 18:58	13°♄10'37	2°47'55	min. Earth dist.	9137 Aug 11 11:44	21°♄37'38	0.56326 AU
min. Earth dist.	9136 Aug 29 21:54	11°♄54'14	0.55050 AU	morning rise	9137 Aug 16 14:37	18°♄47'46	
morning rise	9136 Sep 05 10:31	8°♄45'18		direct	9137 Aug 21 22:10	17°♄41'38	

morning max el	9137 Sep 05 03:12	24°Ω58'22	25°51'43		9138 Jul 27 15:43	30°R☿	
	9137 Sep 09 19:16	0°ྐ		morning rise	9138 Jul 28 11:07	29°☿33'23	
asc. node	9137 Sep 28 04:55	29°ྐ20'09		direct	9138 Aug 03 12:26	27°☿57'40	
	9137 Sep 28 12:58	0°♌			9138 Aug 10 14:33	0°♌	
morning set	9137 Oct 02 21:43	9°♌00'56		morning max el	9138 Aug 17 21:47	5°♌39'30	27°08'03
					9138 Sep 04 21:59	0°ྐ	
superior conj	9137 Oct 09 18:21	24°♌02'16	1°33'04	asc. node	9138 Sep 15 01:51	19°ྐ01'38	
minimum elong	9137 Oct 09 16:45	23°♌53'23	1°33'02	morning set	9138 Sep 17 06:43	23°ྐ36'52	
max. Earth dist.	9137 Oct 10 18:27	26°♌15'21	1.31975 AU		9138 Sep 20 05:57	0°♌	
	9137 Oct 12 11:24	0°♌					
evening rise	9137 Oct 16 18:37	9°♌11'56		superior conj	9138 Sep 24 06:08	8°♌51'19	1°21'00
	9137 Oct 27 15:39	0°♌		minimum elong	9138 Sep 24 04:00	8°♌39'27	1°20'44
desc. node	9137 Nov 01 12:50	8°♌02'53		max. Earth dist.	9138 Sep 24 04:03	8°♌39'40	1.31594 AU
evening max el	9137 Nov 17 18:09	28°♌43'32	27°21'33	evening rise	9138 Oct 01 01:04	23°♌43'34	
	9137 Nov 19 03:45	0°♌			9138 Oct 04 01:24	0°♌	
retrograde	9137 Dec 01 14:15	5°♌57'26		desc. node	9138 Oct 19 09:57	26°♌50'27	
evening set	9137 Dec 08 15:53	3°♌38'54			9138 Oct 21 15:53	0°♌	
min. Earth dist.	9137 Dec 12 08:29	0°♌48'12	0.61764 AU	evening max el	9138 Oct 30 20:27	10°♌39'56	26°40'45
	9137 Dec 13 06:13	30°R♌		retrograde	9138 Nov 13 18:32	17°♌47'51	
inferior conj	9137 Dec 15 08:39	28°♌05'09	-3°08'30	evening set	9138 Nov 20 13:02	15°♌52'46	
minimum elong	9137 Dec 15 14:44	27°♌51'22	3°06'03	min. Earth dist.	9138 Nov 24 10:22	13°♌16'43	0.59667 AU
morning rise	9137 Dec 22 15:53	23°♌04'54		inferior conj	9138 Nov 27 15:01	10°♌45'17	-4°18'10
direct	9137 Dec 24 21:19	22°♌43'33		minimum elong	9138 Nov 27 22:33	10°♌30'20	4°15'49
asc. node	9137 Dec 25 04:31	22°♌43'57		morning rise	9138 Dec 05 10:36	6°♌06'31	
morning max el	9137 Dec 31 19:37	26°♌13'56	17°51'10	direct	9138 Dec 07 14:59	5°♌49'08	
	9138 Jan 04 01:13	0°♌		asc. node	9138 Dec 12 01:33	7°♌05'07	
morning set	9138 Jan 16 13:09	20°♌47'04		morning max el	9138 Dec 15 07:33	9°♌36'37	18°12'54
	9138 Jan 21 16:30	0°♌			9138 Dec 28 14:03	0°♌	
				morning set	9138 Dec 31 01:09	4°♌37'33	
superior conj	9138 Jan 27 10:14	10°♌01'02	0°08'02				
minimum elong	9138 Jan 27 10:59	10°♌04'15	0°08'08	superior conj	9139 Jan 09 12:28	22°♌15'47	0°43'15
behind sun begin	9138 Jan 27 03:33	9°♌32'25		minimum elong	9139 Jan 09 15:24	22°♌29'05	0°43'04
behind sun end	9138 Jan 27 18:24	10°♌36'01			9139 Jan 13 21:03	0°♌	
desc. node	9138 Jan 28 12:03	11°♌51'12		desc. node	9139 Jan 15 08:58	2°♌35'27	
max. Earth dist.	9138 Feb 03 17:08	22°♌11'37	1.43201 AU	max. Earth dist.	9139 Jan 17 03:24	5°♌36'24	1.41291 AU
	9138 Feb 08 13:49	0°♌		evening rise	9139 Jan 21 23:49	13°♌39'10	
evening rise	9138 Feb 10 14:27	3°♌11'14			9139 Feb 01 11:11	0°♌	
	9138 Feb 28 14:35	0°♌			9139 Feb 24 00:15	0°♌	
evening max el	9138 Mar 14 06:12	17°♌12'50	21°46'59	evening max el	9139 Feb 24 22:09	0°♌56'09	23°06'09
retrograde	9138 Mar 23 10:36	22°♌38'53		retrograde	9139 Mar 07 06:12	7°♌03'20	
asc. node	9138 Mar 23 03:18	22°♌38'25		asc. node	9139 Mar 10 00:24	6°♌25'54	
evening set	9138 Mar 27 21:37	20°♌50'34		evening set	9139 Mar 12 04:34	5°♌00'25	
inferior conj	9138 Apr 02 04:56	14°♌32'11	2°45'55		9139 Mar 16 12:57	30°R♌	
minimum elong	9138 Apr 02 02:52	14°♌39'22	2°45'24	min. Earth dist.	9139 Mar 17 03:50	29°♌08'55	0.68473 AU
min. Earth dist.	9138 Apr 02 07:04	14°♌24'44	0.68431 AU	inferior conj	9139 Mar 17 13:45	28°♌34'39	2°14'18
morning rise	9138 Apr 07 07:59	8°♌19'54		minimum elong	9139 Mar 17 11:31	28°♌42'22	2°13'41
direct	9138 Apr 12 06:59	6°♌11'43		morning rise	9139 Mar 22 18:23	22°♌27'35	
morning max el	9138 Apr 22 03:03	12°♌00'11	22°39'50	direct	9139 Mar 27 03:37	20°♌41'14	
desc. node	9138 Apr 26 12:06	16°♌51'25		morning max el	9139 Apr 04 18:08	25°♌39'27	21°15'09
	9138 May 06 11:02	0°♌			9139 Apr 08 16:14	0°♌	
morning set	9138 May 26 03:58	0°♌08'04		desc. node	9139 Apr 13 08:59	5°♌59'46	
	9138 May 26 02:00	0°♌			9139 Apr 29 21:58	0°♌	
max. Earth dist.	9138 May 30 21:19	8°♌01'54	1.40354 AU	morning set	9139 May 05 21:31	9°♌16'38	
				max. Earth dist.	9139 May 12 23:28	20°♌38'48	1.42459 AU
superior conj	9138 Jun 07 16:04	21°♌42'13	-1°35'33		9139 May 18 14:10	0°♌	
minimum elong	9138 Jun 07 21:54	22°♌08'39	1°35'07				
	9138 Jun 12 04:16	0°♌		superior conj	9139 May 20 07:01	2°♌54'07	-1°59'58
evening rise	9138 Jun 17 15:38	10°♌19'17		minimum elong	9139 May 20 12:32	3°♌17'47	1°59'49
asc. node	9138 Jun 19 02:09	13°♌02'21		evening rise	9139 May 31 16:57	23°♌06'02	
	9138 Jun 28 19:49	0°♌			9139 Jun 04 12:58	0°♌	
evening max el	9138 Jul 03 16:44	6°♌04'41	18°24'47	asc. node	9139 Jun 05 23:10	2°♌31'29	
retrograde	9138 Jul 11 05:42	9°♌51'12		evening max el	9139 Jun 17 03:36	18°♌59'08	18°06'50
evening set	9138 Jul 13 09:38	9°♌33'24		retrograde	9139 Jun 23 21:21	22°♌25'03	
inferior conj	9138 Jul 20 22:34	4°♌59'21	0°45'09	evening set	9139 Jun 26 09:01	21°♌57'17	
minimum elong	9138 Jul 21 00:07	4°♌56'12	0°44'22	inferior conj	9139 Jul 03 03:59	17°♌03'06	1°58'52
desc. node	9138 Jul 23 11:27	2°♌56'02		minimum elong	9139 Jul 03 06:55	16°♌56'13	1°57'46
min. Earth dist.	9138 Jul 24 07:19	2°♌17'15	0.58242 AU	min. Earth dist.	9139 Jul 06 10:18	14°♌00'37	0.60470 AU

morning rise	9139 Jul 10 02:03	11°☿10'20		desc. node	9140 Jun 26 05:36	21°♊15'01	
desc. node	9139 Jul 10 08:32	11°☿00'14		direct	9140 Jun 28 04:36	21°♊02'44	
direct	9139 Jul 16 15:31	9°☿03'58		morning max el	9140 Jul 12 05:48	29°♊05'20	27°53'04
morning max el	9139 Jul 30 23:04	17°☿01'07	27°49'43		9140 Jul 13 03:12	0°☿	
	9139 Aug 10 16:49	0°♊			9140 Aug 03 14:58	0°♊	
	9139 Aug 28 13:01	0°♊		morning set	9140 Aug 15 10:32	21°♊58'45	
morning set	9139 Sep 01 11:41	7°♊58'14		asc. node	9140 Aug 18 19:42	28°♊58'04	
asc. node	9139 Sep 01 22:46	8°♊55'59			9140 Aug 19 07:25	0°♊	
max. Earth dist.	9139 Sep 07 13:12	20°♊59'55	1.31681 AU	max. Earth dist.	9140 Aug 20 18:11	3°♊05'22	1.32250 AU
superior conj	9139 Sep 08 17:17	23°♊34'55	1°03'49	superior conj	9140 Aug 23 01:56	8°♊06'53	0°41'52
minimum elong	9139 Sep 08 15:04	23°♊22'39	1°03'24	minimum elong	9140 Aug 23 00:09	7°♊57'09	0°41'24
	9139 Sep 11 14:52	0°♊		evening rise	9140 Aug 29 22:31	23°♊03'18	
evening rise	9139 Sep 15 11:01	8°♊22'46			9140 Sep 02 06:00	0°♊	
	9139 Sep 26 12:47	0°♊			9140 Sep 21 00:21	0°♊	
desc. node	9139 Oct 06 07:04	14°♊41'33		desc. node	9140 Sep 22 04:13	1°♊13'38	
evening max el	9139 Oct 12 14:54	21°♊45'55	25°28'23	evening max el	9140 Sep 23 03:00	2°♊10'12	23°54'15
retrograde	9139 Oct 26 12:41	28°♊47'01		retrograde	9140 Oct 06 18:14	8°♊59'24	
evening set	9139 Nov 01 12:13	27°♊24'34		evening set	9140 Oct 11 10:40	8°♊11'24	
min. Earth dist.	9139 Nov 06 03:08	24°♊46'22	0.57627 AU	min. Earth dist.	9140 Oct 17 13:29	5°♊12'43	0.55927 AU
inferior conj	9139 Nov 09 02:31	22°♊43'46	-5°14'19	inferior conj	9140 Oct 19 17:38	3°♊53'50	-5°39'13
minimum elong	9139 Nov 09 08:40	22°♊33'09	5°13'08	minimum elong	9140 Oct 19 17:57	3°♊53'23	5°39'05
morning rise	9139 Nov 17 07:28	18°♊27'31			9140 Oct 27 22:44	30°♊	
direct	9139 Nov 19 15:47	18°♊10'49		morning rise	9140 Oct 28 03:14	29°♊57'20	
morning max el	9139 Nov 28 11:16	22°♊25'00	18°55'36	direct	9140 Oct 30 21:23	29°♊38'01	
asc. node	9139 Nov 28 22:33	22°♊52'49			9140 Nov 02 17:52	0°♊	
	9139 Dec 04 12:11	0°♊		morning max el	9140 Nov 10 03:12	4°♊27'57	20°00'47
morning set	9139 Dec 14 23:24	18°♊55'55		asc. node	9140 Nov 14 19:33	9°♊51'13	
	9139 Dec 20 14:30	0°♊			9140 Nov 26 10:32	0°♊	
				morning set	9140 Nov 28 04:24	3°♊31'22	
superior conj	9139 Dec 23 09:54	5°♊24'54	1°09'48	superior conj	9140 Dec 05 21:32	19°♊13'29	1°27'43
minimum elong	9139 Dec 23 13:08	5°♊40'17	1°09'40	minimum elong	9140 Dec 05 23:59	19°♊25'41	1°27'47
max. Earth dist.	9139 Dec 30 09:47	18°♊19'11	1.39138 AU		9140 Dec 11 10:17	0°♊	
desc. node	9140 Jan 02 05:57	23°♊18'04		max. Earth dist.	9140 Dec 11 16:17	0°♊28'19	1.36991 AU
evening rise	9140 Jan 03 07:00	25°♊05'39		evening rise	9140 Dec 15 10:46	7°♊25'32	
	9140 Jan 06 04:56	0°♊		desc. node	9140 Dec 19 02:58	13°♊54'23	
	9140 Jan 26 04:07	0°♊			9140 Dec 29 00:36	0°♊	
evening max el	9140 Feb 07 12:00	14°♊43'44	24°25'51	evening max el	9141 Jan 20 01:19	28°♊32'33	25°39'16
retrograde	9140 Feb 18 22:13	21°♊24'58			9141 Jan 21 14:30	0°♊	
evening set	9140 Feb 24 08:49	19°♊08'49		retrograde	9141 Feb 01 09:35	5°♊37'25	
asc. node	9140 Feb 24 21:31	18°♊40'33		evening set	9141 Feb 07 08:44	3°♊10'20	
min. Earth dist.	9140 Feb 28 23:51	13°♊51'55	0.68107 AU		9141 Feb 10 10:52	30°♊	
inferior conj	9140 Feb 29 21:21	12°♊39'49	1°33'54	asc. node	9141 Feb 10 18:39	29°♊36'41	
minimum elong	9140 Feb 29 19:26	12°♊46'18	1°33'19	min. Earth dist.	9141 Feb 11 16:47	28°♊28'15	0.67345 AU
morning rise	9140 Mar 06 06:08	6°♊39'27		inferior conj	9141 Feb 13 01:51	26°♊42'59	0°44'58
direct	9140 Mar 10 02:24	5°♊14'56		minimum elong	9141 Feb 13 00:45	26°♊46'29	0°44'42
morning max el	9140 Mar 17 16:31	9°♊30'55	20°01'48	morning rise	9141 Feb 18 17:14	20°♊51'14	
desc. node	9140 Mar 30 05:53	25°♊40'30		direct	9141 Feb 22 01:42	19°♊46'44	
	9140 Apr 02 04:46	0°♊		morning max el	9141 Feb 28 22:48	23°♊32'44	19°03'17
morning set	9140 Apr 13 20:49	17°♊39'42			9141 Mar 06 09:19	0°♊	
	9140 Apr 21 18:39	0°♊		greatest brilliancy	9141 Mar 14 12:56	11°♊48'28	-0.8m
max. Earth dist.	9140 Apr 24 09:05	4°♊07'45	1.44152 AU	desc. node	9141 Mar 17 02:47	15°♊44'17	
superior conj	9140 Apr 29 21:43	13°♊02'40	-2°12'04	morning set	9141 Mar 24 00:25	26°♊23'35	
minimum elong	9140 Apr 29 23:02	13°♊08'01	2°12'13		9141 Mar 26 08:12	0°♊	
	9140 May 10 01:25	0°♊		max. Earth dist.	9141 Apr 07 01:11	18°♊16'13	1.45227 AU
evening rise	9140 May 13 00:06	5°♊02'29		superior conj	9141 Apr 09 13:54	22°♊15'17	-2°05'52
asc. node	9140 May 22 20:12	21°♊38'23		minimum elong	9141 Apr 09 08:03	21°♊52'11	2°05'42
	9140 May 28 16:12	0°♊			9141 Apr 14 11:00	0°♊	
evening max el	9140 May 30 17:02	2°♊15'00	18°07'57	evening rise	9141 Apr 24 08:53	16°♊01'28	
retrograde	9140 Jun 06 02:25	5°♊35'31			9141 May 02 22:44	0°♊	
evening set	9140 Jun 08 21:45	4°♊55'14		asc. node	9141 May 09 17:17	10°♊15'52	
	9140 Jun 14 19:45	30°♊		evening max el	9141 May 14 05:54	15°♊44'32	18°27'26
inferior conj	9140 Jun 15 02:31	29°♊41'59	2°46'33	retrograde	9141 May 20 16:42	19°♊13'44	
minimum elong	9140 Jun 15 05:04	29°♊35'11	2°45'45	evening set	9141 May 23 19:32	18°♊19'32	
min. Earth dist.	9140 Jun 17 21:58	26°♊43'01	0.62700 AU	inferior conj	9141 May 29 14:05	12°♊48'46	3°12'30
morning rise	9140 Jun 21 10:38	23°♊33'05					

minimum elong	9141 May 29 15:29	12° Π 44'37	3°12'04			9142 Apr 28 07:41	0° Π	
min. Earth dist.	9141 May 31 18:56	10° Π 12'52	0.64689 AU	retrograde		9142 May 04 12:28	3° Π 11'30	
morning rise	9141 Jun 04 10:30	6° Π 31'56		evening set		9142 May 07 23:05	2° Π 02'35	
direct	9141 Jun 11 01:54	3° Π 48'32				9142 May 10 07:51	30° \mathbb{R} 8	
desc. node	9141 Jun 13 02:38	4° Π 02'08		inferior conj		9142 May 13 11:00	26° \mathbb{B} 16'00	3°21'14
morning max el	9141 Jun 24 15:48	11° Π 46'04	27°20'54	minimum elong		9142 May 13 11:07	26° \mathbb{B} 15'36	3°21'00
	9141 Jul 09 03:39	0° \mathfrak{D}		min. Earth dist.		9142 May 15 00:34	24° \mathbb{B} 15'55	0.66304 AU
	9141 Jul 27 03:27	0° Ω		morning rise		9142 May 18 22:40	19° \mathbb{B} 56'45	
morning set	9141 Jul 30 00:40	5° Ω 31'45		direct		9142 May 25 06:08	17° \mathbb{B} 11'47	
max. Earth dist.	9141 Aug 03 15:24	14° Ω 47'41	1.33312 AU	desc. node		9142 May 30 23:39	19° \mathbb{B} 00'18	
asc. node	9141 Aug 05 16:38	19° Ω 03'52		morning max el		9142 Jun 07 02:27	24° \mathbb{B} 51'08	26°20'08
						9142 Jun 11 18:13	0° Π	
superior conj	9141 Aug 07 06:05	22° Ω 21'40	0°15'37			9142 Jul 02 14:44	0° \mathfrak{D}	
minimum elong	9141 Aug 07 05:19	22° Ω 17'32	0°15'17	morning set		9142 Jul 13 02:39	18° \mathfrak{D} 27'31	
behind sun begin	9141 Aug 07 03:38	22° Ω 08'40		max. Earth dist.		9142 Jul 17 02:07	26° \mathfrak{D} 04'11	1.34859 AU
behind sun end	9141 Aug 07 06:59	22° Ω 26'25				9142 Jul 19 01:49	0° Ω	
	9141 Aug 10 19:43	0° \mathbb{P}						
evening rise	9141 Aug 14 09:42	7° \mathbb{P} 39'46		superior conj		9142 Jul 22 03:16	6° Ω 11'56	-0°14'13
	9141 Aug 26 03:27	0° \mathfrak{L}		minimum elong		9142 Jul 22 04:05	6° Ω 16'09	0°14'17
evening max el	9141 Sep 04 15:30	12° \mathfrak{L} 21'10	22°14'41	behind sun begin		9142 Jul 22 01:20	6° Ω 02'01	
desc. node	9141 Sep 09 01:23	15° \mathfrak{L} 58'18		behind sun end		9142 Jul 22 06:50	6° Ω 30'17	
retrograde	9141 Sep 17 11:48	18° \mathfrak{L} 45'06		asc. node		9142 Jul 23 13:35	9° Ω 08'52	
evening set	9141 Sep 20 16:31	18° \mathfrak{L} 22'28		evening rise		9142 Jul 29 18:31	22° Ω 05'32	
min. Earth dist.	9141 Sep 28 21:15	14° \mathfrak{L} 46'59	0.54873 AU			9142 Aug 02 15:55	0° \mathbb{P}	
inferior conj	9141 Sep 29 15:56	14° \mathfrak{L} 20'43	-5°13'48	evening max el		9142 Aug 17 13:14	22° \mathbb{P} 54'08	20°45'07
minimum elong	9141 Sep 29 08:40	14° \mathfrak{L} 30'57	5°12'34	desc. node		9142 Aug 26 22:32	28° \mathbb{P} 23'53	
morning rise	9141 Oct 08 02:27	10° \mathfrak{L} 33'20		retrograde		9142 Aug 28 23:58	28° \mathbb{P} 34'37	
direct	9141 Oct 11 10:46	10° \mathfrak{L} 08'20		evening set		9142 Aug 31 03:30	28° \mathbb{P} 23'27	
morning max el	9141 Oct 23 05:53	15° \mathfrak{L} 41'16	21°27'46	inferior conj		9142 Sep 09 08:14	24° \mathbb{P} 26'51	-3°53'35
asc. node	9141 Nov 01 16:33	27° \mathfrak{L} 45'18		minimum elong		9142 Sep 08 22:41	24° \mathbb{P} 40'29	3°50'45
	9141 Nov 03 01:17	0° \mathbb{M}		min. Earth dist.		9142 Sep 10 06:01	23° \mathbb{P} 55'41	0.54703 AU
morning set	9141 Nov 12 13:36	18° \mathbb{M} 16'50		morning rise		9142 Sep 17 17:50	20° \mathbb{P} 28'15	
	9141 Nov 18 03:08	0° \mathfrak{X}		direct		9142 Sep 21 18:39	19° \mathbb{P} 53'23	
				morning max el		9142 Oct 04 21:59	26° \mathbb{P} 12'11	23°10'37
superior conj	9141 Nov 19 19:21	3° \mathfrak{X} 30'25	1°37'47			9142 Oct 08 12:49	0° \mathfrak{L}	
minimum elong	9141 Nov 19 20:34	3° \mathfrak{X} 36'44	1°37'59	asc. node		9142 Oct 19 13:31	16° \mathfrak{L} 21'18	
max. Earth dist.	9141 Nov 24 03:31	12° \mathfrak{X} 22'23	1.35065 AU			9142 Oct 26 13:34	0° \mathbb{M}	
evening rise	9141 Nov 28 07:44	20° \mathfrak{X} 30'27		morning set		9142 Oct 28 00:56	3° \mathbb{M} 05'46	
	9141 Dec 03 12:06	0° \mathfrak{Z}						
desc. node	9141 Dec 05 23:59	4° \mathfrak{Z} 20'05		superior conj		9142 Nov 04 00:05	18° \mathbb{M} 05'36	1°40'49
	9141 Dec 22 23:32	0° \mathfrak{A}		minimum elong		9142 Nov 04 00:02	18° \mathbb{M} 05'20	1°41'01
evening max el	9142 Jan 02 14:39	12° \mathfrak{A} 16'25	26°39'04	max. Earth dist.		9142 Nov 06 22:24	24° \mathbb{M} 19'17	1.33505 AU
retrograde	9142 Jan 15 15:34	19° \mathfrak{A} 34'20				9142 Nov 09 16:15	0° \mathfrak{X}	
evening set	9142 Jan 22 02:30	17° \mathfrak{A} 00'12		evening rise		9142 Nov 11 18:06	4° \mathfrak{X} 10'24	
min. Earth dist.	9142 Jan 26 04:22	12° \mathfrak{A} 52'47	0.66204 AU	desc. node		9142 Nov 22 21:04	24° \mathfrak{X} 29'31	
inferior conj	9142 Jan 28 01:10	10° \mathfrak{A} 40'00	-0°12'10			9142 Nov 26 06:19	0° \mathfrak{Z}	
minimum elong	9142 Jan 28 01:30	10° \mathfrak{A} 39'01	0°11'49	evening max el		9142 Dec 16 03:31	25° \mathfrak{Z} 46'14	27°18'08
transit middle	9142 Jan 28 01:30	10° \mathfrak{A} 39'01	0°11'49			9142 Dec 21 06:09	0° \mathfrak{A}	
transit begin	9142 Jan 27 23:31	10° \mathfrak{A} 44'54		retrograde		9142 Dec 29 15:41	3° \mathfrak{A} 07'53	
transit end	9142 Jan 28 03:29	10° \mathfrak{A} 33'08		evening set		9143 Jan 05 11:58	0° \mathfrak{A} 32'57	
asc. node	9142 Jan 28 15:47	9° \mathfrak{A} 56'49				9143 Jan 06 04:36	30° \mathbb{R} 8	
morning rise	9142 Feb 03 01:29	4° \mathfrak{A} 59'04		min. Earth dist.		9143 Jan 09 08:30	26° \mathfrak{Z} 58'47	0.64704 AU
direct	9142 Feb 05 23:38	4° \mathfrak{A} 11'33		inferior conj		9143 Jan 11 16:59	24° \mathfrak{Z} 25'50	-1°16'44
morning max el	9142 Feb 12 11:31	7° \mathfrak{A} 40'02	18°20'58	minimum elong		9143 Jan 11 19:19	24° \mathfrak{Z} 19'30	1°15'29
	9142 Feb 28 04:22	0° \mathfrak{H}		asc. node		9143 Jan 15 12:54	20° \mathfrak{Z} 39'29	
desc. node	9142 Mar 03 23:40	6° \mathfrak{H} 04'40		morning rise		9143 Jan 18 04:16	18° \mathfrak{Z} 58'20	
morning set	9142 Mar 04 04:18	6° \mathfrak{H} 23'09		direct		9143 Jan 20 17:56	18° \mathfrak{Z} 24'02	
	9142 Mar 19 02:32	0° \mathbb{Y}		morning max el		9143 Jan 27 04:09	21° \mathfrak{Z} 46'06	17°55'30
						9143 Feb 02 14:21	0° \mathfrak{A}	
superior conj	9142 Mar 19 19:13	1° \mathbb{Y} 05'22	-1°39'40	morning set		9143 Feb 13 13:35	17° \mathfrak{A} 49'54	
minimum elong	9142 Mar 19 09:37	0° \mathbb{Y} 27'45	1°38'44	desc. node		9143 Feb 18 20:34	26° \mathfrak{A} 36'59	
max. Earth dist.	9142 Mar 20 20:33	2° \mathbb{Y} 44'30	1.45576 AU			9143 Feb 20 22:01	0° \mathfrak{H}	
evening rise	9142 Apr 04 18:13	26° \mathbb{Y} 04'13						
	9142 Apr 07 06:16	0° \mathbb{B}		superior conj		9143 Feb 27 08:47	10° \mathfrak{H} 25'16	-0°59'31
greatest brilliancy	9142 Apr 15 04:56	12° \mathbb{B} 23'48	-0.8m	minimum elong		9143 Feb 27 02:03	9° \mathfrak{H} 58'23	0°58'30
asc. node	9142 Apr 26 14:24	28° \mathbb{B} 14'03		max. Earth dist.		9143 Mar 03 16:04	17° \mathfrak{H} 14'43	1.45181 AU
evening max el	9142 Apr 27 15:38	29° \mathbb{B} 20'49	19°04'28			9143 Mar 11 20:23	0° \mathbb{Y}	

evening rise	9143 Mar 15 10:00	5° Υ 29'56			9144 Feb 13 10:45	0° X	
greatest brilliancy	9143 Mar 30 01:59	27° Υ 39'16	-0.6m	max. Earth dist.	9144 Feb 14 09:17	1° X 30'34	1.44095 AU
	9143 Mar 31 16:47	0° B		evening rise	9144 Feb 22 21:42	14° X 53'54	
evening max el	9143 Apr 10 20:31	13° B 00'17	19°57'35		9144 Mar 03 21:20	0° Υ	
asc. node	9143 Apr 13 11:32	15° B 21'06		evening max el	9144 Mar 23 19:53	26° Υ 40'54	21°04'09
retrograde	9143 Apr 18 10:46	17° B 22'55			9144 Mar 27 16:33	0° B	
evening set	9143 Apr 22 05:57	15° B 58'55		asc. node	9144 Mar 30 08:40	1° B 22'01	
inferior conj	9143 Apr 27 14:13	9° B 58'21	3°16'14	retrograde	9144 Apr 01 09:15	1° B 42'38	
minimum elong	9143 Apr 27 13:14	10° B 01'40	3°15'59	evening set	9144 Apr 05 14:07	0° B 03'18	
min. Earth dist.	9143 Apr 28 13:14	8° B 40'44	0.67487 AU		9144 Apr 05 15:46	30° R Υ	
morning rise	9143 May 02 20:13	3° B 40'10		inferior conj	9144 Apr 10 21:13	23° Υ 50'52	2°59'52
direct	9143 May 08 16:26	1° B 03'50		minimum elong	9144 Apr 10 19:26	23° Υ 57'00	2°59'28
desc. node	9143 May 17 20:36	5° B 38'50		min. Earth dist.	9144 Apr 11 06:45	23° Υ 17'49	0.68221 AU
morning max el	9143 May 20 12:09	8° B 09'24	25°00'07	morning rise	9144 Apr 16 00:32	17° Υ 35'58	
	9143 Jun 06 14:36	0° II		direct	9144 Apr 21 07:35	15° Υ 15'52	
	9143 Jun 25 04:15	0° E		morning max el	9144 May 01 21:25	21° Υ 34'08	23°31'05
morning set	9143 Jun 25 12:06	0° E 34'51		desc. node	9144 May 03 17:31	23° Υ 30'21	
max. Earth dist.	9143 Jun 29 02:46	7° E 07'50	1.36830 AU		9144 May 09 04:22	0° B	
					9144 May 29 21:09	0° II	
superior conj	9143 Jul 05 14:33	19° E 30'47	-0°46'16	morning set	9144 Jun 05 23:38	11° II 39'09	
minimum elong	9143 Jul 05 17:26	19° E 44'57	0°46'00	max. Earth dist.	9144 Jun 09 22:46	18° II 28'14	1.39060 AU
asc. node	9143 Jul 10 10:34	29° E 09'38			9144 Jun 16 08:29	0° E	
	9143 Jul 10 20:32	0° Ω					
evening rise	9143 Jul 13 22:41	6° Ω 14'37		superior conj	9144 Jun 17 12:13	2° E 08'52	-1°18'23
	9143 Jul 27 10:08	0° M		minimum elong	9144 Jun 17 17:11	2° E 32'08	1°17'55
evening max el	9143 Jul 31 00:33	4° M 11'00	19°34'09	asc. node	9144 Jun 26 07:34	19° E 01'59	
retrograde	9143 Aug 09 18:13	8° M 59'52		evening rise	9144 Jun 26 19:22	19° E 59'16	
evening set	9143 Aug 11 14:26	8° M 50'17			9144 Jul 02 01:41	0° Ω	
desc. node	9143 Aug 13 19:40	8° M 15'05		evening max el	9144 Jul 12 24:00	16° Ω 12'50	18°44'10
inferior conj	9143 Aug 20 09:15	4° M 45'51	-2°01'02	retrograde	9144 Jul 21 04:58	20° Ω 17'38	
minimum elong	9143 Aug 20 03:46	4° M 54'32	1°59'05	evening set	9144 Jul 23 05:02	20° Ω 03'56	
min. Earth dist.	9143 Aug 22 17:51	3° M 16'21	0.55494 AU	desc. node	9144 Jul 30 16:44	16° Ω 04'51	
morning rise	9143 Aug 28 14:43	0° M 17'08		inferior conj	9144 Jul 31 05:20	15° Ω 41'45	-0°09'35
	9143 Aug 29 11:56	30° R Ω		minimum elong	9144 Jul 31 04:56	15° Ω 42'28	0°09'38
direct	9143 Sep 02 10:55	29° Ω 24'40		transit middle	9144 Jul 31 04:56	15° Ω 42'28	0°09'38
	9143 Sep 06 09:18	0° M		transit begin	9144 Jul 31 02:00	15° Ω 47'54	
morning max el	9143 Sep 16 09:58	6° M 23'50	24°56'18	transit end	9144 Jul 31 07:53	15° Ω 37'02	
	9143 Oct 03 11:34	0° E		min. Earth dist.	9144 Aug 03 09:56	13° Ω 21'32	0.57085 AU
asc. node	9143 Oct 06 10:26	5° E 28'58		morning rise	9144 Aug 08 01:24	10° Ω 36'05	
morning set	9143 Oct 12 12:37	17° E 53'10		direct	9144 Aug 13 17:19	9° Ω 17'36	
	9143 Oct 18 02:01	0° M		morning max el	9144 Aug 28 00:41	16° Ω 46'11	26°27'52
					9144 Sep 07 21:28	0° M	
superior conj	9143 Oct 19 09:10	2° M 51'12	1°37'35	asc. node	9144 Sep 22 07:21	25° M 00'14	
minimum elong	9143 Oct 19 08:02	2° M 45'02	1°37'38		9144 Sep 24 17:44	0° E	
max. Earth dist.	9143 Oct 21 01:00	6° M 28'58	1.32395 AU	morning set	9144 Sep 25 23:04	2° E 34'47	
evening rise	9143 Oct 26 14:27	18° M 16'36					
	9143 Nov 01 13:46	0° X		superior conj	9144 Oct 02 20:31	17° E 40'57	1°28'36
desc. node	9143 Nov 09 18:09	14° X 15'12		minimum elong	9144 Oct 02 18:38	17° E 30'31	1°28'28
	9143 Nov 20 16:03	0° B		max. Earth dist.	9144 Oct 03 09:06	18° E 50'46	1.31753 AU
evening max el	9143 Nov 28 14:23	8° B 49'52	27°29'41		9144 Oct 08 11:32	0° M	
retrograde	9143 Dec 12 08:57	16° B 08'02		evening rise	9144 Oct 09 17:58	2° M 41'29	
evening set	9143 Dec 19 10:16	13° B 40'52			9144 Oct 24 10:05	0° X	
min. Earth dist.	9143 Dec 23 03:20	10° B 36'06	0.62896 AU	desc. node	9144 Oct 26 15:14	3° X 27'45	
inferior conj	9143 Dec 25 22:25	7° B 53'07	-2°26'59	evening max el	9144 Nov 09 20:50	21° X 14'56	27°08'33
minimum elong	9143 Dec 26 03:10	7° B 41'34	2°24'51	retrograde	9144 Nov 23 18:12	28° X 25'57	
morning rise	9144 Jan 01 22:12	2° B 41'51		evening set	9144 Nov 30 17:51	26° X 16'32	
asc. node	9144 Jan 02 09:58	2° B 32'29		min. Earth dist.	9144 Dec 04 11:32	23° X 33'28	0.60874 AU
direct	9144 Jan 04 05:41	2° B 16'54		inferior conj	9144 Dec 07 14:16	20° X 53'35	-3°38'52
morning max el	9144 Jan 10 21:33	5° B 42'03	17°47'30	minimum elong	9144 Dec 07 21:10	20° X 38'46	3°36'20
morning set	9144 Jan 26 23:36	0° \approx 27'42		morning rise	9144 Dec 15 02:55	16° X 01'49	
	9144 Jan 26 17:16	0° \approx		direct	9144 Dec 17 07:23	15° X 42'32	
desc. node	9144 Feb 05 17:28	17° \approx 16'39		asc. node	9144 Dec 19 07:00	15° X 59'02	
				morning max el	9144 Dec 24 12:27	19° X 19'22	17°57'57
superior conj	9144 Feb 07 20:21	20° \approx 49'43	-0°15'39		9145 Jan 01 07:54	0° B	
minimum elong	9144 Feb 07 18:46	20° \approx 43'06	0°15'13	morning set	9145 Jan 09 03:47	13° B 56'49	
behind sun begin	9144 Feb 07 15:49	20° \approx 30'46			9145 Jan 18 00:03	0° \approx	
behind sun end	9144 Feb 07 21:44	20° \approx 55'25					

superior conj	9145 Jan 19 09:18	2° \approx 26'28	0°23'58	morning set	9145 Dec 23 20:36	28° \approx 00'11	
minimum elong	9145 Jan 19 11:16	2° \approx 35'03	0°23'54		9145 Dec 24 21:30	0° \approx	
desc. node	9145 Jan 22 14:25	8° \approx 00'15					
max. Earth dist.	9145 Jan 26 22:42	15° \approx 18'46	1.42439 AU	superior conj	9146 Jan 01 20:18	15° \approx 05'31	0°55'35
evening rise	9145 Feb 01 20:21	24° \approx 52'21		minimum elong	9146 Jan 01 23:33	15° \approx 20'32	0°55'24
	9145 Feb 05 02:45	0° \approx		desc. node	9146 Jan 09 11:22	28° \approx 43'48	
	9145 Feb 25 20:02	0° \approx		max. Earth dist.	9146 Jan 09 07:30	28° \approx 27'07	1.40391 AU
evening max el	9145 Mar 06 14:16	10° \approx 23'25	22°20'10		9146 Jan 10 05:06	0° \approx	
retrograde	9145 Mar 16 06:13	16° \approx 06'43		evening rise	9146 Jan 13 14:46	5° \approx 44'13	
asc. node	9145 Mar 17 05:46	16° \approx 01'54			9146 Jan 29 06:20	0° \approx	
evening set	9145 Mar 20 21:58	14° \approx 12'10		evening max el	9146 Feb 17 05:07	24° \approx 08'27	23°40'22
inferior conj	9145 Mar 26 05:55	7° \approx 50'28	2°33'36		9146 Feb 25 06:56	0° \approx	
minimum elong	9145 Mar 26 03:44	7° \approx 58'05	2°33'02	retrograde	9146 Feb 28 00:22	0° \approx 30'46	
min. Earth dist.	9145 Mar 26 02:53	8° \approx 01'00	0.68511 AU		9146 Mar 02 13:47	30° \approx 09'42	
morning rise	9145 Mar 31 09:20	1° \approx 40'20		asc. node	9146 Mar 04 02:53	29° \approx 09'42	
	9145 Apr 03 04:41	30° \approx 09'42		evening set	9146 Mar 05 04:00	28° \approx 21'46	
direct	9145 Apr 05 02:33	29° \approx 41'06		min. Earth dist.	9146 Mar 09 23:30	22° \approx 45'18	0.68369 AU
	9145 Apr 07 02:36	0° \approx		inferior conj	9146 Mar 10 14:27	21° \approx 54'14	1°58'16
morning max el	9145 Apr 14 09:20	5° \approx 06'58	22°02'39	minimum elong	9146 Mar 10 12:17	22° \approx 01'38	1°57'36
desc. node	9145 Apr 20 14:27	12° \approx 15'01		morning rise	9146 Mar 15 20:34	15° \approx 50'06	
	9145 May 03 09:56	0° \approx		direct	9146 Mar 20 00:11	14° \approx 13'13	
morning set	9145 May 17 08:35	21° \approx 29'10		morning max el	9146 Mar 28 03:26	18° \approx 51'43	20°42'24
	9145 May 22 13:15	0° \approx			9146 Apr 06 06:50	0° \approx	
max. Earth dist.	9145 May 22 21:55	0° \approx 36'08	1.41295 AU	desc. node	9146 Apr 07 11:22	1° \approx 38'22	
				morning set	9146 Apr 26 16:35	0° \approx 13'19	
superior conj	9145 May 30 15:45	13° \approx 55'27	-1°47'01		9146 Apr 26 13:09	0° \approx	
minimum elong	9145 May 30 21:49	14° \approx 22'17	1°46'39	max. Earth dist.	9146 May 05 03:57	13° \approx 39'17	1.43246 AU
	9145 Jun 08 11:59	0° \approx					
evening rise	9145 Jun 10 05:00	3° \approx 10'19		superior conj	9146 May 11 20:43	24° \approx 41'09	-2°06'59
asc. node	9145 Jun 13 04:34	8° \approx 41'03		minimum elong	9146 May 12 01:00	24° \approx 59'07	2°07'00
evening max el	9145 Jun 26 07:48	28° \approx 50'46	18°14'43		9146 May 15 00:05	0° \approx	
	9145 Jun 27 14:25	0° \approx		evening rise	9146 May 23 23:18	15° \approx 37'51	
retrograde	9145 Jul 03 11:00	2° \approx 26'25		asc. node	9146 May 31 01:36	28° \approx 01'56	
evening set	9145 Jul 05 18:19	2° \approx 04'36			9146 Jun 01 05:47	0° \approx	
	9145 Jul 09 16:32	30° \approx 09'42		evening max el	9146 Jun 09 20:11	11° \approx 55'36	18°04'55
inferior conj	9145 Jul 12 23:10	27° \approx 21'37	1°19'51	retrograde	9146 Jun 16 09:10	15° \approx 17'42	
minimum elong	9145 Jul 13 01:36	27° \approx 16'23	1°18'48	evening set	9146 Jun 19 00:05	14° \approx 44'53	
min. Earth dist.	9145 Jul 16 08:10	24° \approx 28'11	0.59177 AU	inferior conj	9146 Jun 25 12:29	9° \approx 42'05	2°22'04
desc. node	9145 Jul 17 13:51	23° \approx 29'42		minimum elong	9146 Jun 25 15:24	9° \approx 34'49	2°21'02
morning rise	9145 Jul 20 05:42	21° \approx 43'14		min. Earth dist.	9146 Jun 28 14:44	6° \approx 38'31	0.61434 AU
direct	9145 Jul 26 13:07	19° \approx 54'19		morning rise	9146 Jul 02 04:25	3° \approx 41'02	
morning max el	9145 Aug 09 22:01	27° \approx 42'49	27°30'29	desc. node	9146 Jul 04 10:56	2° \approx 23'12	
	9145 Aug 12 03:05	0° \approx		direct	9146 Jul 08 20:31	1° \approx 23'42	
	9145 Sep 01 13:55	0° \approx		morning max el	9146 Jul 23 02:11	9° \approx 24'15	27°55'50
asc. node	9145 Sep 09 04:15	14° \approx 47'36			9146 Aug 08 00:17	0° \approx	
morning set	9145 Sep 10 06:34	17° \approx 04'51			9146 Aug 24 17:57	0° \approx	
	9145 Sep 16 05:33	0° \approx		morning set	9146 Aug 25 09:15	1° \approx 18'19	
				asc. node	9146 Aug 27 01:11	4° \approx 45'51	
superior conj	9145 Sep 17 08:13	2° \approx 27'57	1°14'19	max. Earth dist.	9146 Aug 31 03:12	13° \approx 31'32	1.31869 AU
minimum elong	9145 Sep 17 05:59	2° \approx 15'34	1°13'59				
max. Earth dist.	9145 Sep 16 19:09	1° \approx 15'24	1.31577 AU	superior conj	9146 Sep 01 18:32	17° \approx 07'06	0°55'03
evening rise	9145 Sep 24 02:09	17° \approx 17'00		minimum elong	9146 Sep 01 16:26	16° \approx 55'33	0°54'36
	9145 Sep 30 07:54	0° \approx			9146 Sep 07 15:15	0° \approx	
desc. node	9145 Oct 13 12:21	21° \approx 53'15		evening rise	9146 Sep 08 13:01	1° \approx 57'20	
	9145 Oct 20 01:19	0° \approx			9146 Sep 23 14:06	0° \approx	
evening max el	9145 Oct 22 20:01	2° \approx 49'50	26°13'28	desc. node	9146 Sep 30 09:29	9° \approx 13'31	
retrograde	9145 Nov 05 17:57	9° \approx 54'08		evening max el	9146 Oct 04 11:01	13° \approx 34'28	24°49'56
evening set	9145 Nov 12 06:08	8° \approx 12'07		retrograde	9146 Oct 18 06:51	20° \approx 31'55	
min. Earth dist.	9145 Nov 16 09:04	5° \approx 37'34	0.58781 AU	evening set	9146 Oct 23 18:43	19° \approx 24'08	
inferior conj	9145 Nov 19 12:55	3° \approx 16'36	-4°44'32	min. Earth dist.	9146 Oct 28 22:20	16° \approx 39'37	0.56846 AU
minimum elong	9145 Nov 19 20:21	3° \approx 02'44	4°42'35	inferior conj	9146 Oct 31 15:38	14° \approx 53'52	-5°29'56
	9145 Nov 24 11:12	30° \approx 09'42		minimum elong	9146 Oct 31 19:51	14° \approx 47'00	5°29'20
morning rise	9145 Nov 27 12:58	28° \approx 47'16		morning rise	9146 Nov 08 23:14	10° \approx 47'09	
direct	9145 Nov 29 18:32	28° \approx 30'25		direct	9146 Nov 11 11:05	10° \approx 29'45	
	9145 Dec 04 18:14	0° \approx		morning max el	9146 Nov 20 20:19	14° \approx 57'34	19°20'39
asc. node	9145 Dec 06 04:01	0° \approx 58'02		asc. node	9146 Nov 23 01:01	17° \approx 17'18	
morning max el	9145 Dec 07 21:15	2° \approx 27'49	18°28'27		9146 Dec 01 10:44	0° \approx	

morning set	9146 Dec 07 22:01	12°♊26'11			9147 Nov 06 09:34	0°♍	
				asc. node	9147 Nov 09 22:02	4°♍41'19	
superior conj	9146 Dec 16 00:18	28°♊32'38	1°18'25	morning set	9147 Nov 22 05:05	27°♍06'41	
minimum elong	9146 Dec 16 03:17	28°♊47'08	1°18'22		9147 Nov 23 14:38	0°♊	
	9146 Dec 16 18:19	0°♊					
max. Earth dist.	9146 Dec 22 13:11	10°♊52'43	1.38203 AU	superior conj	9147 Nov 29 16:46	12°♊34'59	1°32'54
evening rise	9146 Dec 26 06:55	17°♊33'15		minimum elong	9147 Nov 29 18:42	12°♊44'52	1°33'01
desc. node	9146 Dec 27 08:20	19°♊23'44		max. Earth dist.	9147 Dec 04 20:46	22°♊51'15	1.36126 AU
	9147 Jan 02 16:49	0°♋		evening rise	9147 Dec 08 18:31	0°♊13'57	
	9147 Jan 23 15:56	0°♋			9147 Dec 08 15:30	0°♊	
evening max el	9147 Jan 30 18:20	7°♋55'43	24°58'20	desc. node	9147 Dec 14 05:21	9°♊56'15	
retrograde	9147 Feb 11 14:37	14°♋49'02			9147 Dec 26 21:00	0°♋	
evening set	9147 Feb 17 06:38	12°♋27'34		evening max el	9148 Jan 13 07:35	21°♋43'21	26°06'54
asc. node	9147 Feb 19 00:02	10°♋47'13		retrograde	9148 Jan 25 24:00	28°♋55'55	
min. Earth dist.	9147 Feb 21 18:26	7°♋25'38	0.67822 AU	evening set	9148 Feb 01 04:11	26°♋25'14	
inferior conj	9147 Feb 22 20:57	5°♋58'27	1°14'11	min. Earth dist.	9148 Feb 05 09:28	21°♋57'48	0.66894 AU
minimum elong	9147 Feb 22 19:19	6°♋03'52	1°13'41	asc. node	9148 Feb 05 21:11	21°♋21'49	
morning rise	9147 Feb 28 08:16	0°♋01'42		inferior conj	9148 Feb 06 23:31	19°♋59'55	0°21'43
	9147 Feb 28 09:15	30°♌		minimum elong	9148 Feb 06 22:58	20°♋01'40	0°21'40
direct	9147 Mar 03 23:15	28°♋46'14		morning rise	9148 Feb 12 18:25	14°♋12'21	
	9147 Mar 07 18:40	0°♌		direct	9148 Feb 15 22:12	13°♋15'36	
morning max el	9147 Mar 11 05:21	2°♌48'07	19°35'05	morning max el	9148 Feb 22 14:37	16°♋53'10	18°43'15
greatest brilliancy	9147 Mar 23 22:03	19°♌22'49	-0.7m		9148 Mar 03 15:02	0°♌	
desc. node	9147 Mar 25 08:16	21°♌29'27		desc. node	9148 Mar 11 05:10	11°♌41'02	
	9147 Mar 30 23:46	0°♍		morning set	9148 Mar 15 02:50	17°♌47'41	
morning set	9147 Apr 05 14:36	8°♍36'19			9148 Mar 22 21:53	0°♍	
max. Earth dist.	9147 Apr 17 16:24	27°♍26'11	1.44684 AU	max. Earth dist.	9148 Mar 30 09:41	11°♍43'09	1.45462 AU
	9147 Apr 19 07:11	0°♎					
				superior conj	9148 Mar 31 10:39	13°♍21'00	-1°57'02
superior conj	9147 Apr 22 01:06	4°♎23'18	-2°11'56	minimum elong	9148 Mar 31 02:23	12°♍48'36	1°56'32
minimum elong	9147 Apr 21 23:28	4°♎16'43	2°12'04		9148 Apr 10 23:50	0°♎	
evening rise	9147 May 05 21:25	27°♎10'43		evening rise	9148 Apr 15 19:59	7°♎44'14	
	9147 May 07 13:40	0°♏		greatest brilliancy	9148 Apr 23 01:10	19°♎18'41	-0.9m
asc. node	9147 May 17 22:41	16°♏57'33			9148 Apr 29 23:04	0°♏	
evening max el	9147 May 24 09:41	25°♏18'02	18°13'59	asc. node	9148 May 03 19:47	5°♏19'46	
retrograde	9147 May 30 18:46	28°♏40'56		evening max el	9148 May 06 21:32	8°♏51'15	18°41'08
evening set	9147 Jun 02 17:09	27°♏55'03		retrograde	9148 May 13 11:40	12°♏28'02	
inferior conj	9147 Jun 08 17:07	22°♏34'12	2°59'53	evening set	9148 May 16 17:43	11°♏27'46	
minimum elong	9147 Jun 08 19:13	22°♏28'18	2°59'15	inferior conj	9148 May 22 09:04	5°♏50'22	3°18'00
min. Earth dist.	9147 Jun 11 06:38	19°♏42'47	0.63583 AU	minimum elong	9148 May 22 09:55	5°♏47'46	3°17'42
morning rise	9147 Jun 14 19:53	16°♏20'45		min. Earth dist.	9148 May 24 07:31	3°♏28'14	0.65431 AU
desc. node	9147 Jun 21 08:00	13°♏43'26			9148 May 27 12:45	30°♐	
direct	9147 Jun 21 13:26	13°♏43'16		morning rise	9148 May 28 01:23	29°♐31'58	
morning max el	9147 Jul 05 10:50	21°♏46'03	27°43'18	direct	9148 Jun 03 14:05	26°♐46'09	
	9147 Jul 12 15:13	0°♑		desc. node	9148 Jun 07 05:03	27°♐29'42	
	9147 Aug 01 04:26	0°♒			9148 Jun 11 14:58	0°♒	
morning set	9147 Aug 09 04:47	15°♒08'22		morning max el	9148 Jun 16 21:14	4°♒38'05	26°57'53
asc. node	9147 Aug 13 22:07	24°♒49'59			9148 Jul 06 03:58	0°♑	
max. Earth dist.	9147 Aug 14 05:15	25°♒27'34	1.32641 AU	morning set	9148 Jul 22 14:14	28°♑26'55	
	9147 Aug 16 08:22	0°♓			9148 Jul 23 09:32	0°♒	
				max. Earth dist.	9148 Jul 26 21:52	6°♒57'01	1.33913 AU
superior conj	9147 Aug 17 01:33	1°♓32'28	0°31'13	asc. node	9148 Jul 30 19:04	14°♒55'58	
minimum elong	9147 Aug 17 00:07	1°♓24'46	0°30'48				
evening rise	9147 Aug 24 00:37	16°♓36'35		superior conj	9148 Jul 31 03:06	15°♒38'02	0°03'22
	9147 Aug 30 14:38	0°♔		minimum elong	9148 Jul 31 02:56	15°♒37'08	0°03'07
evening max el	9147 Sep 15 22:03	23°♔48'19	23°11'27	behind sun begin	9148 Jul 30 21:21	15°♒07'54	
desc. node	9147 Sep 17 06:38	25°♔03'46		behind sun end	9148 Jul 31 08:31	16°♒06'25	
	9147 Sep 25 17:04	0°♕			9148 Aug 06 21:54	0°♓	
retrograde	9147 Sep 29 07:35	0°♕29'41		evening rise	9148 Aug 07 11:03	1°♓09'12	
	9147 Oct 02 23:54	30°♖			9148 Aug 23 22:02	0°♔	
evening set	9147 Oct 03 08:14	29°♔54'17		evening max el	9148 Aug 27 13:46	4°♔05'44	21°34'40
min. Earth dist.	9147 Oct 10 07:23	26°♔41'27	0.55377 AU	desc. node	9148 Sep 03 03:48	8°♔53'07	
inferior conj	9147 Oct 11 22:46	25°♔44'06	-5°35'27	retrograde	9148 Sep 08 21:27	10°♔12'29	
minimum elong	9147 Oct 11 19:40	25°♔48'38	5°35'08	evening set	9148 Sep 11 13:11	9°♔56'28	
morning rise	9147 Oct 20 09:04	21°♔32'12		inferior conj	9148 Sep 20 16:51	5°♔58'55	-4°45'43
direct	9147 Oct 23 08:35	21°♔32'12		minimum elong	9148 Sep 20 07:40	6°♔11'46	4°43'37
morning max el	9147 Nov 03 06:46	26°♔40'12	20°35'23	min. Earth dist.	9148 Sep 20 15:31	6°♔00'47	0.54684 AU

morning rise	9148 Sep 29 03:07	2°♌09'06		morning rise	9149 Sep 08 19:42	11°♏57'58	
direct	9148 Oct 02 18:17	1°♌40'24		direct	9149 Sep 13 04:44	11°♏16'37	
morning max el	9148 Oct 15 04:17	7°♌33'35	22°10'08	morning max el	9149 Sep 26 17:34	17°♏52'52	23°56'05
asc. node	9148 Oct 26 19:00	22°♌54'52			9149 Oct 06 15:21	0°♌	
	9148 Oct 30 17:37	0°♌		asc. node	9149 Oct 13 15:56	11°♌46'01	
morning set	9148 Nov 05 15:25	11°♌54'17		morning set	9149 Oct 21 03:08	26°♌43'43	
					9149 Oct 22 15:46	0°♌	
superior conj	9148 Nov 12 17:51	27°♌00'41	1°39'53	superior conj	9149 Oct 28 00:43	11°♌41'25	1°40'10
minimum elong	9148 Nov 12 18:31	27°♌04'11	1°40'05	minimum elong	9149 Oct 28 00:11	11°♌38'30	1°40'19
	9148 Nov 14 03:59	0°♌		max. Earth dist.	9149 Oct 30 09:43	16°♌48'28	1.32986 AU
max. Earth dist.	9148 Nov 16 11:04	4°♌44'48	1.34352 AU	evening rise	9149 Nov 04 12:44	27°♌27'58	
evening rise	9148 Nov 20 21:41	13°♌35'22			9149 Nov 05 19:11	0°♌	
	9148 Nov 29 22:38	0°♌		desc. node	9149 Nov 16 23:25	20°♌16'21	
desc. node	9148 Nov 30 02:22	0°♌15'49			9149 Nov 23 04:52	0°♌	
	9148 Dec 20 19:13	0°♌		evening max el	9149 Dec 08 09:27	18°♌43'53	27°26'41
evening max el	9148 Dec 25 21:01	5°♌23'11	26°58'45	retrograde	9149 Dec 22 00:29	26°♌03'42	
retrograde	9149 Jan 08 03:31	12°♌43'26		evening set	9149 Dec 28 23:41	23°♌31'06	
evening set	9149 Jan 14 18:40	10°♌08'27		min. Earth dist.	9150 Jan 01 18:33	20°♌10'06	0.63977 AU
min. Earth dist.	9149 Jan 18 18:16	6°♌15'07	0.65604 AU	inferior conj	9150 Jan 04 07:42	17°♌31'46	-1°46'01
inferior conj	9149 Jan 20 19:57	3°♌52'59	-0°38'44	minimum elong	9150 Jan 04 11:01	17°♌23'07	1°44'22
minimum elong	9149 Jan 20 21:04	3°♌49'47	0°38'00	asc. node	9150 Jan 09 15:23	12°♌52'01	
asc. node	9149 Jan 22 18:18	1°♌44'11		morning rise	9150 Jan 11 00:09	12°♌10'39	
	9149 Jan 24 13:14	30°♌		direct	9150 Jan 13 11:00	11°♌40'39	
morning rise	9149 Jan 27 00:40	28°♌17'06		morning max el	9150 Jan 19 22:30	15°♌02'35	17°49'53
direct	9149 Jan 29 18:59	27°♌35'36			9150 Jan 30 12:19	0°♌	
	9149 Feb 04 03:04	0°♌		morning set	9150 Feb 05 15:56	10°♌24'22	
morning max el	9149 Feb 05 05:14	1°♌00'13	18°07'59	desc. node	9150 Feb 12 22:53	22°♌42'34	
morning set	9149 Feb 23 19:22	28°♌25'02			9150 Feb 17 09:04	0°♌	
	9149 Feb 24 18:45	0°♌		superior conj	9150 Feb 18 14:48	2°♌00'54	-0°40'45
desc. node	9149 Feb 26 02:01	2°♌06'50		minimum elong	9150 Feb 18 10:17	1°♌42'36	0°39'57
				max. Earth dist.	9150 Feb 24 00:42	10°♌41'34	1.44802 AU
superior conj	9149 Mar 10 17:04	22°♌17'03	-1°23'45	evening rise	9150 Mar 06 08:35	26°♌47'08	
minimum elong	9149 Mar 10 08:02	21°♌41'27	1°22'39		9150 Mar 08 11:00	0°♌	
max. Earth dist.	9149 Mar 13 05:23	26°♌13'55	1.45500 AU		9150 Mar 29 01:56	0°♌	
	9149 Mar 15 15:11	0°♌		evening max el	9150 Apr 03 07:57	6°♌09'11	20°24'31
evening rise	9149 Mar 26 20:30	17°♌27'10		asc. node	9150 Apr 07 14:01	9°♌38'33	
	9149 Apr 03 23:17	0°♌		retrograde	9150 Apr 11 07:16	10°♌47'36	
greatest brilliancy	9149 Apr 08 08:14	6°♌39'09	-0.7m	evening set	9150 Apr 15 06:32	9°♌16'50	
evening max el	9149 Apr 20 05:26	22°♌29'33	19°25'19	inferior conj	9150 Apr 20 14:00	3°♌10'50	3°10'35
asc. node	9149 Apr 20 16:53	22°♌57'55		minimum elong	9150 Apr 20 12:39	3°♌15'29	3°10'17
retrograde	9149 Apr 27 08:42	26°♌32'15		min. Earth dist.	9150 Apr 21 07:04	2°♌12'27	0.67850 AU
evening set	9149 Apr 30 22:56	25°♌16'52			9150 Apr 22 23:03	30°♌	
inferior conj	9149 May 06 08:57	19°♌24'16	3°20'35	morning rise	9150 Apr 25 18:32	26°♌54'02	
minimum elong	9149 May 06 08:35	19°♌25'31	3°20'23	direct	9150 May 01 09:14	24°♌24'09	
min. Earth dist.	9149 May 07 16:14	17°♌41'48	0.66864 AU	desc. node	9150 May 11 22:59	0°♌26'25	
morning rise	9149 May 11 17:52	13°♌05'26			9150 May 11 12:01	0°♌	
direct	9149 May 17 21:00	10°♌22'58		morning max el	9150 May 12 16:40	1°♌10'22	24°22'54
desc. node	9149 May 25 02:02	13°♌14'10			9150 Jun 03 11:34	0°♌	
morning max el	9149 May 30 07:20	17°♌49'09	25°47'54	morning set	9150 Jun 17 10:34	22°♌45'58	
	9149 Jun 09 12:16	0°♌		max. Earth dist.	9150 Jun 21 02:17	29°♌14'45	1.37758 AU
	9149 Jun 29 03:45	0°♌			9150 Jun 21 12:18	0°♌	
morning set	9149 Jul 05 09:49	11°♌04'03		superior conj	9150 Jun 28 02:29	12°♌19'19	-1°00'02
max. Earth dist.	9149 Jul 09 04:00	18°♌05'58	1.35654 AU	minimum elong	9150 Jun 28 06:18	12°♌37'41	0°59'40
				asc. node	9150 Jul 04 12:58	24°♌57'51	
superior conj	9149 Jul 14 20:32	29°♌16'49	-0°27'36	evening rise	9150 Jul 06 19:35	29°♌29'22	
minimum elong	9149 Jul 14 22:12	29°♌25'09	0°27'32		9150 Jul 07 01:46	0°♌	
	9149 Jul 15 05:06	0°♌		evening max el	9150 Jul 23 10:02	26°♌33'19	19°10'17
asc. node	9149 Jul 17 16:01	5°♌00'09			9150 Jul 28 02:02	0°♌	
evening rise	9149 Jul 22 18:14	15°♌29'30		retrograde	9150 Aug 01 11:06	1°♌02'24	
	9149 Jul 30 04:49	0°♌		evening set	9150 Aug 03 08:08	0°♌51'38	
evening max el	9149 Aug 09 17:18	14°♌57'12	20°12'24		9150 Aug 06 02:15	30°♌	
retrograde	9149 Aug 20 10:20	20°♌15'17		desc. node	9150 Aug 07 22:05	29°♌06'23	
desc. node	9149 Aug 21 00:57	20°♌14'19		inferior conj	9150 Aug 11 19:32	26°♌39'58	-1°12'02
evening set	9149 Aug 22 09:05	20°♌05'32		minimum elong	9150 Aug 11 16:23	26°♌45'18	1°10'58
inferior conj	9149 Aug 31 11:13	16°♌07'11	-3°07'47				
minimum elong	9149 Aug 31 02:54	16°♌19'28	3°05'00				
min. Earth dist.	9149 Sep 02 01:11	15°♌11'07	0.54934 AU				

min. Earth dist.	9150 Aug 14 14:25	24°♎47'40	0.56088 AU	minimum elong	9151 Jul 24 02:05	7°♎52'30	0°30'57
morning rise	9150 Aug 19 21:41	21°♎55'41		desc. node	9151 Jul 25 19:12	6°♎30'51	
direct	9150 Aug 25 02:14	20°♎53'26		min. Earth dist.	9151 Jul 27 09:07	5°♎17'34	0.57928 AU
morning max el	9150 Sep 08 06:10	28°♎05'57	25°37'58	morning rise	9151 Jul 31 15:32	2°♎33'42	
	9150 Sep 10 03:34	0°♎		direct	9151 Aug 06 14:36	1°♎02'24	
	9150 Sep 29 23:36	0°♎		morning max el	9151 Aug 20 23:40	8°♎41'24	26°58'41
asc. node	9150 Sep 30 12:50	1°♎04'38			9151 Sep 06 03:20	0°♎	
morning set	9150 Oct 05 14:31	11°♎29'31		asc. node	9151 Sep 17 09:44	20°♎43'26	
				morning set	9151 Sep 19 23:57	26°♎07'03	
					9151 Sep 21 19:27	0°♎	
superior conj	9150 Oct 12 11:00	26°♎29'31	1°34'26	superior conj	9151 Sep 26 22:45	11°♎19'03	1°23'10
minimum elong	9150 Oct 12 09:31	26°♎21'19	1°34'25	minimum elong	9151 Sep 26 20:40	11°♎07'29	1°22'57
max. Earth dist.	9150 Oct 13 15:09	29°♎04'36	1.32070 AU	max. Earth dist.	9151 Sep 27 00:24	11°♎28'11	1.31619 AU
	9150 Oct 14 01:15	0°♎		evening rise	9151 Oct 03 18:12	26°♎12'56	
evening rise	9150 Oct 19 12:26	11°♎42'50			9151 Oct 05 13:33	0°♎	
	9150 Oct 28 23:54	0°♎		desc. node	9151 Oct 21 17:39	28°♎44'15	
desc. node	9150 Nov 03 20:32	9°♎49'32			9151 Oct 22 14:28	0°♎	
	9150 Nov 19 05:05	0°♎		evening max el	9151 Nov 02 22:03	13°♎36'15	26°49'02
evening max el	9150 Nov 20 18:37	1°♎32'09	27°24'42	retrograde	9151 Nov 16 20:11	20°♎45'13	
retrograde	9150 Dec 04 14:24	8°♎47'26		evening set	9151 Nov 23 16:16	18°♎46'07	
evening set	9150 Dec 11 16:14	6°♎26'14		min. Earth dist.	9151 Nov 27 12:19	16°♎08'40	0.59977 AU
min. Earth dist.	9150 Dec 15 08:44	3°♎32'17	0.62062 AU	inferior conj	9151 Nov 30 16:42	13°♎34'29	-4°08'11
inferior conj	9150 Dec 18 07:45	0°♎48'42	-2°57'37	minimum elong	9151 Dec 01 00:09	13°♎19'24	4°05'46
minimum elong	9150 Dec 18 13:30	0°♎35'25	2°55'13	morning rise	9151 Dec 08 10:35	8°♎52'18	
	9150 Dec 19 05:01	30°♎		direct	9151 Dec 10 14:46	8°♎34'34	
morning rise	9150 Dec 25 13:05	25°♎45'39		asc. node	9151 Dec 14 09:28	9°♎30'53	
direct	9150 Dec 27 18:56	25°♎23'30		morning max el	9151 Dec 18 04:10	12°♎19'10	18°08'24
asc. node	9150 Dec 27 12:26	25°♎23'50			9151 Dec 29 23:34	0°♎	
morning max el	9151 Jan 03 15:19	28°♎52'13	17°49'39	morning set	9152 Jan 02 20:35	7°♎11'55	
	9151 Jan 04 17:12	0°♎					
morning set	9151 Jan 19 10:26	23°♎26'27		superior conj	9152 Jan 12 12:21	25°♎02'47	0°38'25
	9151 Jan 23 02:38	0°♎		minimum elong	9152 Jan 12 15:06	25°♎15'07	0°38'17
					9152 Jan 15 07:23	0°♎	
superior conj	9151 Jan 30 13:23	12°♎57'24	0°02'00	desc. node	9152 Jan 17 16:44	4°♎08'48	
minimum elong	9151 Jan 30 13:35	12°♎58'15	0°02'11	max. Earth dist.	9152 Jan 20 03:31	8°♎18'39	1.41596 AU
behind sun begin	9151 Jan 30 04:56	12°♎21'25		evening rise	9152 Jan 25 05:47	16°♎42'19	
behind sun end	9151 Jan 30 22:14	13°♎34'59			9152 Feb 02 17:47	0°♎	
desc. node	9151 Jan 30 19:50	13°♎24'44			9152 Feb 24 14:29	0°♎	
max. Earth dist.	9151 Feb 06 16:38	24°♎48'15	1.43447 AU	evening max el	9152 Feb 27 21:29	3°♎33'27	22°54'09
	9151 Feb 09 22:14	0°♎		retrograde	9152 Mar 09 01:26	9°♎34'40	
evening rise	9151 Feb 13 23:21	6°♎22'13		asc. node	9152 Mar 11 08:17	9°♎08'52	
	9151 Mar 01 18:15	0°♎		evening set	9152 Mar 13 22:02	7°♎34'00	
evening max el	9151 Mar 17 04:55	19°♎50'08	21°35'36	inferior conj	9152 Mar 19 06:51	1°♎09'11	2°19'43
asc. node	9151 Mar 25 11:08	25°♎07'08		minimum elong	9152 Mar 19 04:37	1°♎16'55	2°19'05
retrograde	9151 Mar 26 05:26	25°♎10'03		min. Earth dist.	9152 Mar 20 22:44	1°♎37'18	0.68498 AU
evening set	9151 Mar 30 14:47	23°♎24'04			9152 Mar 28 02:55	30°♎	
inferior conj	9151 Apr 04 21:58	17°♎07'03	2°49'54	morning rise	9152 Mar 24 11:05	25°♎01'10	
minimum elong	9151 Apr 04 19:58	17°♎14'00	2°49'25	direct	9152 Mar 28 22:23	23°♎11'24	
min. Earth dist.	9151 Apr 05 01:59	16°♎53'02	0.68390 AU	morning max el	9152 Apr 06 16:57	28°♎16'36	21°27'05
morning rise	9151 Apr 10 01:00	10°♎53'58			9152 Apr 08 08:25	0°♎	
direct	9151 Apr 15 02:04	8°♎42'37		desc. node	9152 Apr 14 16:49	7°♎45'35	
morning max el	9151 Apr 25 02:49	14°♎39'06	22°52'59		9152 Apr 30 04:41	0°♎	
desc. node	9151 Apr 28 19:53	18°♎42'52		morning set	9152 May 08 08:37	12°♎38'35	
	9151 May 07 13:48	0°♎		max. Earth dist.	9152 May 14 23:56	23°♎21'22	1.42171 AU
	9151 May 27 10:31	0°♎			9152 May 18 23:35	0°♎	
morning set	9151 May 29 11:12	3°♎19'45		superior conj	9152 May 22 11:20	5°♎57'42	-1°56'55
max. Earth dist.	9151 Jun 02 22:49	10°♎52'44	1.40021 AU	minimum elong	9152 May 22 17:06	6°♎22'41	1°56'42
				evening rise	9152 Jun 02 15:42	25°♎54'16	
superior conj	9151 Jun 10 16:57	24°♎36'21	-1°31'13		9152 Jun 04 21:48	0°♎	
minimum elong	9151 Jun 10 22:37	25°♎02'12	1°30'45	asc. node	9152 Jun 07 07:00	4°♎17'13	
	9151 Jun 13 15:06	0°♎		evening max el	9152 Jun 18 23:41	21°♎41'59	18°08'18
evening rise	9151 Jun 20 12:03	13°♎00'57		retrograde	9152 Jun 25 19:28	25°♎09'49	
asc. node	9151 Jun 21 09:58	14°♎45'12		evening set	9152 Jun 28 06:03	24°♎43'39	
	9151 Jun 29 21:21	0°♎		inferior conj	9152 Jul 05 03:28	19°♎52'26	1°49'29
evening max el	9151 Jul 06 13:27	8°♎51'22	18°29'12	minimum elong	9152 Jul 05 06:19	19°♎45'51	1°48'21
retrograde	9151 Jul 14 06:17	12°♎42'10					
evening set	9151 Jul 16 09:06	12°♎25'35					
inferior conj	9151 Jul 24 00:57	7°♎54'44	0°31'36				

min. Earth dist.	9152 Jul 08 10:50	16°☿51'29	0.60132 AU		9153 Jun 20 07:41	30°♄II	
desc. node	9152 Jul 11 16:17	14°☿21'25		min. Earth dist.	9153 Jun 20 21:04	29°♄26'02	0.62378 AU
morning rise	9152 Jul 12 03:44	14°☿03'09		morning rise	9153 Jun 24 09:50	26°♄19'42	
direct	9152 Jul 18 15:56	12°☿01'04		desc. node	9153 Jun 28 13:23	24°♄13'47	
morning max el	9152 Aug 01 23:53	19°☿56'15	27°46'01	direct	9153 Jul 01 03:34	23°♄52'30	
	9152 Aug 10 14:22	0°♄			9153 Jul 13 05:56	0°☿	
	9152 Aug 28 23:53	0°♄		morning max el	9153 Jul 15 06:00	1°☿54'37	27°55'02
morning set	9152 Sep 03 05:41	10°♄31'11			9153 Aug 04 21:54	0°♄	
asc. node	9152 Sep 03 06:40	10°♄36'20		morning set	9153 Aug 18 05:35	24°♄35'08	
max. Earth dist.	9152 Sep 09 09:56	23°♄50'19	1.31635 AU		9153 Aug 20 20:27	0°♄	
				asc. node	9153 Aug 21 03:35	0°♄37'27	
superior conj	9152 Sep 10 10:08	26°♄04'10	1°06'45	max. Earth dist.	9153 Aug 23 15:52	5°♄58'54	1.32134 AU
minimum elong	9152 Sep 10 07:54	25°♄51'46	1°06'22				
	9152 Sep 12 04:41	0°♄		superior conj	9153 Aug 25 19:16	10°♄38'05	0°45'30
evening rise	9152 Sep 17 03:47	10°♄51'51		minimum elong	9153 Aug 25 17:23	10°♄27'46	0°45'02
	9152 Sep 26 19:45	0°♄		evening rise	9153 Sep 01 15:10	25°♄32'31	
desc. node	9152 Oct 07 14:47	16°♄45'27			9153 Sep 03 17:43	0°♄	
evening max el	9152 Oct 14 17:53	24°♄50'30	25°40'57		9153 Sep 21 10:50	0°♄	
	9152 Oct 21 16:19	0°♄		desc. node	9153 Sep 24 11:57	3°♄31'10	
retrograde	9152 Oct 28 15:52	1°♄52'16		evening max el	9153 Sep 26 06:34	5°♄19'21	24°09'03
evening set	9152 Nov 03 19:03	0°♄24'42		retrograde	9153 Oct 09 23:12	12°♄10'53	
	9152 Nov 04 15:15	30°♄		evening set	9153 Oct 14 21:03	11°♄17'54	
min. Earth dist.	9152 Nov 08 06:21	27°♄48'00	0.57919 AU	min. Earth dist.	9153 Oct 20 17:15	8°♄23'32	0.56148 AU
inferior conj	9152 Nov 11 07:15	25°♄40'11	-5°07'22	inferior conj	9153 Oct 23 01:20	6°♄57'23	-5°38'21
minimum elong	9152 Nov 11 13:54	25°♄28'30	5°05'58	minimum elong	9153 Oct 23 02:47	6°♄55'09	5°38'09
morning rise	9152 Nov 19 11:05	21°♄20'26		morning rise	9153 Oct 31 10:34	2°♄58'32	
direct	9152 Nov 21 18:29	21°♄03'47		direct	9153 Nov 03 03:00	2°♄39'46	
asc. node	9152 Nov 30 06:29	25°♄06'33		morning max el	9153 Nov 13 03:12	7°♄23'33	19°49'38
morning max el	9152 Nov 30 09:21	25°♄13'25	18°47'48	asc. node	9153 Nov 17 03:30	11°♄55'14	
	9152 Dec 04 11:14	0°♄			9153 Nov 27 21:33	0°♄	
morning set	9152 Dec 16 17:34	21°♄26'58		morning set	9153 Nov 30 21:45	6°♄00'32	
	9152 Dec 21 02:25	0°♄					
superior conj	9152 Dec 25 07:14	8°♄04'32	1°06'19	superior conj	9153 Dec 08 17:03	21°♄48'11	1°25'31
minimum elong	9152 Dec 25 10:31	8°♄20'01	1°06'10	minimum elong	9153 Dec 08 19:39	22°♄01'05	1°25'32
max. Earth dist.	9153 Jan 01 10:31	21°♄08'14	1.39470 AU	max. Earth dist.	9153 Dec 12 22:02	0°♄	
desc. node	9153 Jan 03 13:43	24°♄51'47		evening rise	9153 Dec 14 16:50	3°♄22'02	1.37303 AU
evening rise	9153 Jan 05 09:42	28°♄00'00		desc. node	9153 Dec 18 10:34	10°♄12'21	
	9153 Jan 06 14:10	0°♄			9153 Dec 21 10:42	15°♄29'18	
	9153 Jan 26 06:15	0°♄			9153 Dec 30 07:11	0°♄	
evening max el	9153 Feb 09 11:37	17°♄20'32	24°14'12	evening max el	9154 Jan 21 21:16	0°♄	
retrograde	9153 Feb 20 18:02	23°♄56'54			9154 Jan 23 00:54	1°♄09'21	25°29'01
evening set	9153 Feb 26 02:48	21°♄42'36		retrograde	9154 Feb 04 06:07	8°♄11'25	
asc. node	9153 Feb 26 05:26	21°♄36'58		evening set	9154 Feb 10 03:30	5°♄45'36	
min. Earth dist.	9153 Mar 02 18:59	16°♄20'38	0.68192 AU	asc. node	9154 Feb 13 02:35	2°♄43'05	
inferior conj	9153 Mar 03 14:46	15°♄13'55	1°40'37	min. Earth dist.	9154 Feb 14 12:29	0°♄58'29	0.67484 AU
minimum elong	9153 Mar 03 12:46	15°♄20'42	1°40'00		9154 Feb 15 06:44	30°♄	
morning rise	9153 Mar 08 22:47	9°♄12'32		inferior conj	9154 Feb 15 19:52	29°♄17'42	0°52'56
direct	9153 Mar 12 20:58	7°♄44'46		minimum elong	9154 Feb 15 18:37	29°♄21'45	0°52'36
morning max el	9153 Mar 20 14:10	12°♄06'05	20°11'50	morning rise	9154 Feb 21 10:07	23°♄24'41	
desc. node	9153 Apr 01 13:43	27°♄21'53		direct	9154 Feb 24 20:15	22°♄17'26	
	9153 Apr 03 09:28	0°♄		morning max el	9154 Mar 03 19:23	26°♄06'59	19°11'00
morning set	9153 Apr 17 09:31	21°♄05'04			9154 Mar 07 06:26	0°♄	
	9153 Apr 23 02:49	0°♄		greatest brilliancy	9154 Mar 16 23:50	13°♄40'27	-0.7m
max. Earth dist.	9153 Apr 27 08:50	6°♄44'43	1.43939 AU	desc. node	9154 Mar 19 10:36	17°♄22'43	
				morning set	9154 Mar 27 10:57	29°♄41'55	
superior conj	9153 May 03 05:46	16°♄15'57	-2°11'17		9154 Mar 27 15:37	0°♄	
minimum elong	9153 May 03 08:00	16°♄25'06	2°11'26	max. Earth dist.	9154 Apr 10 00:16	20°♄49'11	1.45109 AU
	9153 May 11 10:29	0°♄					
evening rise	9153 May 16 01:54	7°♄59'10		superior conj	9154 Apr 13 00:50	25°♄35'38	-2°08'08
asc. node	9153 May 25 04:04	23°♄28'08		minimum elong	9154 Apr 12 20:02	25°♄16'36	2°08'04
	9153 May 29 11:06	0°♄			9154 Apr 15 19:20	0°♄	
evening max el	9153 Jun 02 12:58	4°♄55'24	18°06'34	evening rise	9154 Apr 27 14:16	19°♄07'34	
retrograde	9153 Jun 08 22:54	8°♄15'47			9154 May 04 04:55	0°♄	
evening set	9153 Jun 11 17:08	7°♄37'26		asc. node	9154 May 12 01:10	12°♄11'07	
inferior conj	9153 Jun 17 23:44	2°♄26'46	2°40'48	evening max el	9154 May 17 02:06	18°♄23'38	18°23'21
minimum elong	9153 Jun 18 02:25	2°♄19'45	2°39'57	retrograde	9154 May 23 12:11	21°♄50'54	
				evening set	9154 May 26 13:51	20°♄58'52	




























































































































inferior conj	9154 Jun 01 09:40	15° Π 30'30	3°09'41	retrograde	9155 May 07 07:19	5° Π 46'02	
minimum elong	9154 Jun 01 11:16	15° Π 25'51	3°09'13	evening set	9155 May 10 16:41	4° Π 39'27	
min. Earth dist.	9154 Jun 03 16:45	12° Π 50'12	0.64413 AU		9155 May 15 08:45	30° \mathbb{R} 8	
morning rise	9154 Jun 07 07:38	9° Π 14'17		inferior conj	9155 May 16 05:23	28° \mathbb{S} 55'10	3°20'47
direct	9154 Jun 13 23:42	6° Π 32'10		minimum elong	9155 May 16 05:41	28° \mathbb{S} 54'11	3°20'33
desc. node	9154 Jun 15 10:26	6° Π 39'03		min. Earth dist.	9155 May 17 21:15	26° \mathbb{S} 49'02	0.66091 AU
morning max el	9154 Jun 27 15:49	14° Π 31'26	27°27'41	morning rise	9155 May 21 18:09	22° \mathbb{S} 35'54	
	9154 Jul 10 05:28	0° \mathfrak{C}		direct	9155 May 28 03:04	19° \mathbb{S} 50'22	
	9154 Jul 28 13:58	0° \mathcal{O}		desc. node	9155 Jun 02 07:25	21° \mathbb{S} 19'18	
morning set	9154 Aug 01 21:11	8° \mathcal{O} 12'49		morning max el	9155 Jun 10 02:31	27° \mathbb{S} 33'48	26°30'34
max. Earth dist.	9154 Aug 06 14:30	17° \mathcal{O} 45'18	1.33125 AU		9155 Jun 12 09:37	0° Π	
asc. node	9154 Aug 08 00:31	20° \mathcal{O} 43'00			9155 Jul 03 22:05	0° \mathfrak{C}	
				morning set	9155 Jul 16 01:13	21° \mathfrak{C} 15'01	
superior conj	9154 Aug 10 00:13	24° \mathcal{O} 55'41	0°19'52	max. Earth dist.	9155 Jul 20 02:42	29° \mathfrak{C} 04'49	1.34600 AU
minimum elong	9154 Aug 09 23:15	24° \mathcal{O} 50'31	0°19'29		9155 Jul 20 13:52	0° \mathcal{O}	
	9154 Aug 12 08:56	0° \mathbb{M}					
evening rise	9154 Aug 17 02:31	10° \mathbb{M} 09'50		superior conj	9155 Jul 24 22:36	8° \mathcal{O} 50'11	-0°09'30
	9154 Aug 27 07:15	0° \mathfrak{L}		minimum elong	9155 Jul 24 23:08	8° \mathcal{O} 53'00	0°09'38
evening max el	9154 Sep 07 18:14	15° \mathfrak{L} 29'07	22°29'06	behind sun begin	9155 Jul 24 18:24	8° \mathcal{O} 28'35	
desc. node	9154 Sep 11 09:06	18° \mathfrak{L} 33'46		behind sun end	9155 Jul 25 03:52	9° \mathcal{O} 17'27	
retrograde	9154 Sep 20 18:28	21° \mathfrak{L} 58'23		asc. node	9155 Jul 25 21:28	10° \mathcal{O} 48'33	
evening set	9154 Sep 24 04:09	21° \mathfrak{L} 32'52		evening rise	9155 Aug 01 11:48	24° \mathcal{O} 37'36	
min. Earth dist.	9154 Oct 02 01:06	18° \mathfrak{L} 03'40	0.54975 AU		9155 Aug 04 02:32	0° \mathbb{M}	
inferior conj	9154 Oct 03 01:30	17° \mathfrak{L} 29'08	-5°21'20	evening max el	9155 Aug 20 14:12	25° \mathbb{M} 57'22	20°57'22
minimum elong	9154 Oct 02 19:11	17° \mathfrak{L} 38'05	5°20'25		9155 Aug 25 20:12	0° \mathfrak{L}	
morning rise	9154 Oct 11 12:02	13° \mathfrak{L} 41'35		desc. node	9155 Aug 29 06:14	1° \mathfrak{L} 22'16	
direct	9154 Oct 14 17:57	13° \mathfrak{L} 17'45		retrograde	9155 Sep 01 06:49	1° \mathfrak{L} 45'07	
morning max el	9154 Oct 26 07:49	18° \mathfrak{L} 44'00	21°13'41	evening set	9155 Sep 03 12:49	1° \mathfrak{L} 33'05	
asc. node	9154 Nov 04 00:27	29° \mathfrak{L} 41'29			9155 Sep 08 05:44	30° \mathbb{R} 11	
	9154 Nov 04 05:09	0° \mathbb{L}		inferior conj	9155 Sep 12 17:47	27° \mathbb{M} 36'43	-4°08'37
morning set	9154 Nov 15 06:26	20° \mathbb{L} 44'47		minimum elong	9155 Sep 12 08:05	27° \mathbb{M} 50'28	4°05'53
	9154 Nov 19 16:17	0° \mathfrak{J}		min. Earth dist.	9155 Sep 13 09:43	27° \mathbb{M} 14'06	0.54664 AU
				morning rise	9155 Sep 21 03:36	23° \mathbb{M} 40'58	
superior conj	9154 Nov 22 13:33	6° \mathfrak{J} 01'37	1°36'44	direct	9155 Sep 25 01:47	23° \mathbb{M} 07'55	
minimum elong	9154 Nov 22 14:58	6° \mathfrak{J} 08'54	1°36'54	morning max el	9155 Oct 08 01:08	29° \mathbb{M} 20'31	22°54'47
max. Earth dist.	9154 Nov 27 02:55	15° \mathfrak{J} 16'17	1.35325 AU		9155 Oct 08 17:38	0° \mathfrak{L}	
evening rise	9154 Dec 01 05:11	23° \mathfrak{J} 11'06		asc. node	9155 Oct 21 21:23	18° \mathfrak{L} 12'07	
	9154 Dec 04 22:12	0° \mathfrak{Z}			9155 Oct 28 01:25	0° \mathbb{L}	
desc. node	9154 Dec 08 07:43	5° \mathfrak{Z} 56'58		morning set	9155 Oct 30 17:33	5° \mathbb{L} 33'45	
	9154 Dec 23 23:45	0° \mathfrak{A}					
evening max el	9155 Jan 05 14:08	14° \mathfrak{A} 54'25	26°31'20	superior conj	9155 Nov 06 17:25	20° \mathbb{L} 34'59	1°40'47
retrograde	9155 Jan 18 13:03	22° \mathfrak{A} 11'29		minimum elong	9155 Nov 06 17:34	20° \mathbb{L} 35'43	1°40'59
evening set	9155 Jan 24 22:19	19° \mathfrak{A} 37'57		max. Earth dist.	9155 Nov 09 20:29	27° \mathbb{L} 11'52	1.33706 AU
min. Earth dist.	9155 Jan 29 00:59	15° \mathfrak{A} 25'29	0.66394 AU		9155 Nov 11 04:57	0° \mathfrak{J}	
inferior conj	9155 Jan 30 20:05	13° \mathfrak{A} 16'10	-0°03'00	evening rise	9155 Nov 14 13:47	6° \mathfrak{J} 46'58	
minimum elong	9155 Jan 30 20:10	13° \mathfrak{A} 15'57	0°02'45	desc. node	9155 Nov 25 04:45	26° \mathfrak{J} 09'30	
transit middle	9155 Jan 30 20:10	13° \mathfrak{A} 15'57	0°02'45		9155 Nov 27 12:40	0° \mathfrak{Z}	
transit begin	9155 Jan 30 17:18	13° \mathfrak{A} 24'33		evening max el	9155 Dec 19 03:09	28° \mathfrak{Z} 27'30	27°13'58
transit end	9155 Jan 30 23:02	13° \mathfrak{A} 07'21			9155 Dec 20 19:29	0° \mathfrak{A}	
asc. node	9155 Jan 30 23:42	13° \mathfrak{A} 05'19		retrograde	9156 Jan 01 14:08	5° \mathfrak{A} 49'22	
morning rise	9155 Feb 05 18:56	7° \mathfrak{A} 33'34		evening set	9156 Jan 08 09:09	3° \mathfrak{A} 14'11	
direct	9155 Feb 08 18:28	6° \mathfrak{A} 43'49			9156 Jan 11 21:04	30° \mathbb{R} 3	
morning max el	9155 Feb 15 07:19	10° \mathfrak{A} 14'18	18°26'11	min. Earth dist.	9156 Jan 12 06:25	29° \mathfrak{Z} 35'05	0.64945 AU
	9155 Mar 01 11:10	0° \mathfrak{H}		inferior conj	9156 Jan 14 13:10	27° \mathfrak{Z} 04'34	-1°06'30
desc. node	9155 Mar 06 07:27	7° \mathfrak{H} 41'00		minimum elong	9156 Jan 14 15:10	26° \mathfrak{Z} 59'03	1°05'24
morning set	9155 Mar 07 10:29	9° \mathfrak{H} 28'24		asc. node	9156 Jan 17 20:47	23° \mathfrak{Z} 41'19	
	9155 Mar 20 10:38	0° \mathbb{Y}		morning rise	9156 Jan 20 22:42	21° \mathfrak{Z} 34'46	
				direct	9156 Jan 23 13:27	20° \mathfrak{Z} 58'48	
superior conj	9155 Mar 23 06:37	4° \mathbb{Y} 26'07	-1°44'46	morning max el	9156 Jan 29 23:31	24° \mathfrak{Z} 21'20	17°58'11
minimum elong	9155 Mar 22 21:08	3° \mathbb{Y} 48'58	1°43'55		9156 Feb 03 15:14	0° \mathfrak{A}	
max. Earth dist.	9155 Mar 23 19:06	5° \mathbb{Y} 14'55	1.45569 AU	morning set	9156 Feb 16 15:36	20° \mathfrak{A} 43'14	
evening rise	9155 Apr 08 02:52	29° \mathbb{Y} 17'50		desc. node	9156 Feb 21 04:20	28° \mathfrak{A} 12'00	
	9155 Apr 08 13:33	0° \mathbb{S}			9156 Feb 22 06:42	0° \mathfrak{H}	
greatest brilliancy	9155 Apr 17 19:33	14° \mathbb{S} 32'48	-0.8m				
asc. node	9155 Apr 28 22:17	0° Π 16'06		superior conj	9156 Mar 01 17:52	13° \mathfrak{H} 39'04	-1°06'04
	9155 Apr 28 16:44	0° Π		minimum elong	9156 Mar 01 10:25	13° \mathfrak{H} 09'26	1°05'02
evening max el	9155 Apr 30 12:23	1° Π 59'10	18°57'53	max. Earth dist.	9156 Mar 05 14:34	19° \mathfrak{H} 45'28	1.45289 AU

	9156 Mar 12 04:03	0°♿			9157 Mar 05 03:11	0°♿	
evening rise	9156 Mar 17 20:32	8°♿47'09		evening max el	9157 Mar 26 18:19	29°♿19'27	20°53'32
	9156 Mar 31 20:05	0°♿			9157 Mar 27 10:41	0°♿	
greatest brilliancy	9156 Apr 01 01:35	0°♿20'15	-0.6m	asc. node	9157 Apr 01 16:31	3°♿44'07	
evening max el	9156 Apr 12 18:04	15°♿38'28	19°48'45	retrograde	9157 Apr 04 03:50	4°♿14'47	
asc. node	9156 Apr 14 19:24	17°♿31'48		evening set	9157 Apr 08 07:15	2°♿37'39	
retrograde	9156 Apr 20 05:18	19°♿55'37			9157 Apr 10 21:45	30°♿♿	
evening set	9156 Apr 23 23:09	18°♿33'56		inferior conj	9157 Apr 13 14:23	26°♿26'55	3°03'02
inferior conj	9156 Apr 29 07:48	12°♿35'27	3°17'44	minimum elong	9157 Apr 13 12:42	26°♿32'42	3°02'39
minimum elong	9156 Apr 29 06:58	12°♿38'14	3°17'30	min. Earth dist.	9157 Apr 14 01:51	25°♿47'16	0.68142 AU
min. Earth dist.	9156 Apr 30 08:58	11°♿11'10	0.67343 AU	morning rise	9157 Apr 18 17:56	20°♿11'32	
morning rise	9156 May 04 14:28	6°♿16'58		direct	9157 Apr 24 03:03	17°♿48'42	
direct	9156 May 10 12:34	3°♿38'40		morning max el	9157 May 04 21:24	24°♿14'11	23°44'33
desc. node	9156 May 19 04:24	7°♿44'28		desc. node	9157 May 06 01:20	25°♿26'44	
morning max el	9156 May 22 12:14	10°♿50'08	25°12'47		9157 May 10 00:56	0°♿	
	9156 Jun 06 18:11	0°♿			9157 May 31 04:24	0°♿	
	9156 Jun 25 14:01	0°♿		morning set	9157 Jun 09 04:36	14°♿45'20	
morning set	9156 Jun 27 13:26	3°♿30'25		max. Earth dist.	9157 Jun 13 00:54	21°♿25'17	1.38721 AU
max. Earth dist.	9156 Jul 01 04:24	10°♿08'01	1.36514 AU		9157 Jun 17 19:09	0°♿	
superior conj	9156 Jul 07 11:34	22°♿14'29	-0°41'21	superior conj	9157 Jun 20 11:33	4°♿59'48	-1°13'38
minimum elong	9156 Jul 07 14:07	22°♿27'08	0°41'08	minimum elong	9157 Jun 20 16:15	5°♿21'55	1°13'11
	9156 Jul 11 08:28	0°♿		asc. node	9157 Jun 28 15:25	20°♿44'40	
asc. node	9156 Jul 11 18:25	0°♿50'24		evening rise	9157 Jun 29 14:50	22°♿39'03	
evening rise	9156 Jul 15 16:48	8°♿49'43			9157 Jul 03 10:19	0°♿	
	9156 Jul 27 06:46	0°♿		evening max el	9157 Jul 15 21:26	19°♿03'44	18°50'18
evening max el	9156 Aug 01 23:34	7°♿07'53	19°43'26	retrograde	9157 Jul 24 07:13	23°♿14'22	
retrograde	9156 Aug 11 23:11	12°♿04'01		evening set	9157 Jul 26 06:25	23°♿01'31	
evening set	9156 Aug 13 19:38	11°♿54'35		desc. node	9157 Aug 02 00:32	19°♿40'48	
desc. node	9156 Aug 15 03:23	11°♿36'54		inferior conj	9157 Aug 03 09:39	18°♿42'07	-0°25'21
inferior conj	9156 Aug 22 16:42	7°♿52'14	-2°18'47	minimum elong	9157 Aug 03 08:36	18°♿44'01	0°25'09
minimum elong	9156 Aug 22 10:24	8°♿02'00	2°16'32	min. Earth dist.	9157 Aug 06 12:13	16°♿28'47	0.56809 AU
min. Earth dist.	9156 Aug 24 20:59	6°♿31'11	0.55319 AU	morning rise	9157 Aug 11 07:28	13°♿42'03	
morning rise	9156 Aug 30 23:06	3°♿28'58		direct	9157 Aug 16 20:33	12°♿28'03	
direct	9156 Sep 04 16:27	2°♿39'32		morning max el	9157 Aug 31 03:11	19°♿52'28	26°15'46
morning max el	9156 Sep 18 13:10	9°♿33'10	24°41'01		9157 Sep 08 18:51	0°♿	
	9156 Oct 03 18:09	0°♿		asc. node	9157 Sep 24 15:13	26°♿44'13	
asc. node	9156 Oct 07 18:18	7°♿15'54			9157 Sep 26 05:49	0°♿	
morning set	9156 Oct 14 05:16	20°♿21'53		morning set	9157 Sep 28 16:02	5°♿04'51	
	9156 Oct 18 15:43	0°♿					
				superior conj	9157 Oct 05 13:07	20°♿09'08	1°30'18
superior conj	9156 Oct 21 01:59	5°♿19'38	1°38'26	minimum elong	9157 Oct 05 11:20	19°♿59'13	1°30'13
minimum elong	9156 Oct 21 01:00	5°♿14'16	1°38'33	max. Earth dist.	9157 Oct 06 05:43	21°♿41'04	1.31824 AU
max. Earth dist.	9156 Oct 22 22:06	9°♿20'00	1.32532 AU		9157 Oct 10 00:46	0°♿	
evening rise	9156 Oct 28 08:51	20°♿50'06		evening rise	9157 Oct 12 11:29	5°♿12'41	
	9156 Nov 02 00:14	0°♿			9157 Oct 25 15:22	0°♿	
desc. node	9156 Nov 11 01:49	15°♿59'31		desc. node	9157 Oct 28 22:57	5°♿17'54	
	9156 Nov 20 12:48	0°♿		evening max el	9157 Nov 12 21:52	24°♿07'48	27°13'48
evening max el	9156 Nov 30 14:33	11°♿36'20	27°29'58		9157 Nov 21 03:13	0°♿	
retrograde	9156 Dec 14 08:25	18°♿54'58		retrograde	9157 Nov 26 18:45	1°♿19'34	
evening set	9156 Dec 21 09:17	16°♿26'15			9157 Dec 02 04:55	30°♿♿	
min. Earth dist.	9156 Dec 25 02:46	13°♿17'21	0.63183 AU	evening set	9157 Dec 03 19:18	29°♿06'48	
inferior conj	9156 Dec 27 20:20	10°♿35'16	-2°16'04	min. Earth dist.	9157 Dec 07 12:30	26°♿21'18	0.61189 AU
minimum elong	9156 Dec 28 00:42	10°♿24'26	2°14'04	inferior conj	9157 Dec 10 14:25	23°♿40'05	-3°28'09
morning rise	9157 Jan 03 18:11	5°♿21'14		minimum elong	9157 Dec 10 21:03	23°♿25'33	3°25'37
asc. node	9157 Jan 03 17:50	5°♿21'32		morning rise	9157 Dec 18 01:11	18°♿45'13	
direct	9157 Jan 06 02:28	4°♿55'04		direct	9157 Dec 20 05:56	18°♿25'16	
morning max el	9157 Jan 12 16:57	8°♿19'11	17°47'33	asc. node	9157 Dec 21 14:53	18°♿33'20	
	9157 Jan 27 02:10	0°♿		morning max el	9157 Dec 27 08:25	21°♿59'37	17°55'11
morning set	9157 Jan 28 22:21	3°♿12'01			9158 Jan 02 12:06	0°♿	
desc. node	9157 Feb 07 01:13	18°♿50'49		morning set	9158 Jan 12 00:10	16°♿34'24	
					9158 Jan 19 10:20	0°♿	
superior conj	9157 Feb 10 01:41	23°♿52'43	-0°22'10				
minimum elong	9157 Feb 09 23:22	23°♿43'09	0°21'38	superior conj	9158 Jan 22 10:56	5°♿18'56	0°18'25
	9157 Feb 13 19:29	0°♿		minimum elong	9158 Jan 22 12:31	5°♿25'47	0°18'25
max. Earth dist.	9157 Feb 16 08:24	4°♿05'03	1.44302 AU	desc. node	9158 Jan 24 22:08	9°♿33'53	
evening rise	9157 Feb 25 07:51	18°♿09'16		max. Earth dist.	9158 Jan 29 22:42	17°♿59'05	1.42715 AU

evening rise	9158 Feb 05 04:04	28° \approx 00'40		evening rise	9159 Jan 16 19:18	8° \approx 44'16	
	9158 Feb 06 10:26	0° \mathbb{H}			9159 Jan 30 11:17	0° \mathbb{H}	
	9158 Feb 26 20:31	0° \mathbb{Y}		evening max el	9159 Feb 20 04:32	26° \mathbb{H} 46'13	23°28'23
evening max el	9158 Mar 09 13:21	13° \mathbb{Y} 01'38	22°08'27		9159 Feb 23 19:00	0° \mathbb{Y}	
retrograde	9158 Mar 19 01:10	18° \mathbb{Y} 38'50		retrograde	9159 Mar 02 19:54	3° \mathbb{Y} 03'32	
asc. node	9158 Mar 19 13:40	18° \mathbb{Y} 37'28		asc. node	9159 Mar 06 10:49	1° \mathbb{Y} 59'53	
evening set	9158 Mar 23 15:17	16° \mathbb{Y} 46'23		evening set	9159 Mar 07 21:42	0° \mathbb{Y} 56'34	
inferior conj	9158 Mar 28 22:58	10° \mathbb{Y} 25'48	2°38'13		9159 Mar 08 21:59	30° \mathbb{R} \mathbb{H}	
minimum elong	9158 Mar 28 20:49	10° \mathbb{Y} 33'17	2°37'40	inferior conj	9159 Mar 13 07:40	24° \mathbb{H} 29'30	2°04'12
min. Earth dist.	9158 Mar 28 21:43	10° \mathbb{Y} 30'10	0.68493 AU	minimum elong	9159 Mar 13 05:28	24° \mathbb{H} 37'03	2°03'34
morning rise	9158 Apr 03 02:12	4° \mathbb{Y} 14'58		min. Earth dist.	9159 Mar 12 18:27	25° \mathbb{H} 14'51	0.68414 AU
direct	9158 Apr 07 21:28	2° \mathbb{Y} 12'35		morning rise	9159 Mar 18 13:12	18° \mathbb{H} 24'20	
morning max el	9158 Apr 17 08:48	7° \mathbb{Y} 46'09	22°15'31	direct	9159 Mar 22 18:46	16° \mathbb{H} 44'13	
desc. node	9158 Apr 22 22:15	14° \mathbb{Y} 04'34		morning max el	9159 Mar 31 01:52	21° \mathbb{H} 29'27	20°53'38
	9158 May 04 14:35	0° \mathbb{B}			9159 Apr 07 06:49	0° \mathbb{Y}	
morning set	9158 May 20 17:42	24° \mathbb{B} 46'59		desc. node	9159 Apr 09 19:09	3° \mathbb{Y} 22'56	
	9158 May 23 22:05	0° \mathbb{II}			9159 Apr 27 20:21	0° \mathbb{B}	
max. Earth dist.	9158 May 25 23:28	3° \mathbb{II} 26'11	1.40973 AU	morning set	9159 Apr 30 04:53	3° \mathbb{B} 39'27	
				max. Earth dist.	9159 May 08 04:10	16° \mathbb{B} 20'34	1.42983 AU
superior conj	9158 Jun 02 18:06	16° \mathbb{II} 54'48	-1°43'05	superior conj	9159 May 15 02:40	27° \mathbb{B} 50'04	-2°04'45
minimum elong	9158 Jun 03 00:08	17° \mathbb{II} 21'45	1°42'42	minimum elong	9159 May 15 07:30	28° \mathbb{B} 10'26	2°04'44
	9158 Jun 09 22:08	0° \mathbb{E}			9159 May 16 09:19	0° \mathbb{II}	
evening rise	9158 Jun 13 02:25	5° \mathbb{E} 56'04		evening rise	9159 May 26 23:21	18° \mathbb{II} 30'56	
asc. node	9158 Jun 15 12:26	10° \mathbb{E} 26'19		asc. node	9159 Jun 02 09:31	29° \mathbb{II} 50'34	
	9158 Jun 27 16:10	0° \mathbb{O}			9159 Jun 02 11:43	0° \mathbb{E}	
evening max el	9158 Jun 29 04:13	1° \mathbb{O} 36'46	18°17'49	evening max el	9159 Jun 12 16:08	14° \mathbb{E} 38'08	18°05'08
retrograde	9158 Jul 06 10:36	5° \mathbb{O} 15'57		retrograde	9159 Jun 19 06:37	18° \mathbb{E} 01'21	
evening set	9158 Jul 08 16:43	4° \mathbb{O} 55'37		evening set	9159 Jun 21 20:21	17° \mathbb{E} 30'23	
inferior conj	9158 Jul 16 00:20	0° \mathbb{O} 15'39	1°08'04	inferior conj	9159 Jun 28 10:59	12° \mathbb{E} 30'32	2°14'15
minimum elong	9158 Jul 16 02:30	0° \mathbb{O} 11'04	1°07'03	minimum elong	9159 Jun 28 13:56	12° \mathbb{E} 23'21	2°13'11
	9158 Jul 16 07:43	30° \mathbb{R} \mathbb{E}		min. Earth dist.	9159 Jul 01 14:48	9° \mathbb{E} 26'48	0.61101 AU
min. Earth dist.	9158 Jul 19 09:26	27° \mathbb{E} 25'46	0.58845 AU	morning rise	9159 Jul 05 05:02	6° \mathbb{E} 32'04	
desc. node	9158 Jul 19 21:40	27° \mathbb{E} 01'39		desc. node	9159 Jul 06 18:46	5° \mathbb{E} 36'12	
morning rise	9158 Jul 23 09:00	24° \mathbb{E} 41'23		direct	9159 Jul 11 20:19	4° \mathbb{E} 18'22	
direct	9158 Jul 29 14:24	22° \mathbb{E} 57'09		morning max el	9159 Jul 26 02:50	12° \mathbb{E} 18'05	27°54'30
	9158 Aug 12 05:31	0° \mathbb{O}			9159 Aug 09 02:57	0° \mathbb{O}	
morning max el	9158 Aug 12 23:34	0° \mathbb{O} 43'24	27°23'26		9159 Aug 26 05:49	0° \mathbb{H}	
	9158 Sep 02 22:00	0° \mathbb{H}		morning set	9159 Aug 28 03:40	3° \mathbb{H} 53'31	
asc. node	9158 Sep 11 12:08	16° \mathbb{H} 29'34		asc. node	9159 Aug 29 09:04	6° \mathbb{H} 26'30	
morning set	9158 Sep 13 00:07	19° \mathbb{H} 37'07		max. Earth dist.	9159 Sep 03 00:14	16° \mathbb{H} 23'33	1.31790 AU
	9158 Sep 17 19:19	0° \mathbb{L}					
max. Earth dist.	9158 Sep 19 15:43	4° \mathbb{L} 05'56	1.31574 AU	superior conj	9159 Sep 04 11:34	19° \mathbb{H} 37'46	0°58'18
				minimum elong	9159 Sep 04 09:25	19° \mathbb{H} 25'53	0°57'51
superior conj	9158 Sep 20 00:55	4° \mathbb{L} 56'59	1°16'48		9159 Sep 09 04:28	0° \mathbb{L}	
minimum elong	9158 Sep 19 22:42	4° \mathbb{L} 44'44	1°16'30	evening rise	9159 Sep 11 05:42	4° \mathbb{L} 26'55	
evening rise	9158 Sep 26 19:07	19° \mathbb{L} 46'58			9159 Sep 24 16:09	0° \mathbb{L}	
	9158 Oct 01 18:19	0° \mathbb{L}		desc. node	9159 Oct 02 17:16	11° \mathbb{L} 23'39	
desc. node	9158 Oct 15 20:06	23° \mathbb{L} 51'47		evening max el	9159 Oct 07 14:16	16° \mathbb{L} 41'56	25°03'47
	9158 Oct 20 12:29	0° \mathbb{J}		retrograde	9159 Oct 21 11:01	23° \mathbb{L} 41'00	
evening max el	9158 Oct 25 22:10	5° \mathbb{J} 50'14	26°23'38	evening set	9159 Oct 27 03:11	22° \mathbb{L} 28'03	
retrograde	9158 Nov 08 20:07	12° \mathbb{J} 55'49		min. Earth dist.	9159 Nov 01 01:53	19° \mathbb{L} 46'08	0.57107 AU
evening set	9158 Nov 15 10:49	11° \mathbb{J} 09'00		inferior conj	9159 Nov 03 21:40	17° \mathbb{L} 54'09	-5°25'14
min. Earth dist.	9158 Nov 19 11:29	8° \mathbb{J} 34'21	0.59088 AU	minimum elong	9159 Nov 04 02:40	17° \mathbb{L} 45'50	5°24'25
inferior conj	9158 Nov 22 15:52	6° \mathbb{J} 09'23	-4°35'34	morning rise	9159 Nov 12 04:28	13° \mathbb{L} 44'15	
minimum elong	9158 Nov 22 23:25	5° \mathbb{J} 54'59	4°33'26	direct	9159 Nov 14 14:53	13° \mathbb{L} 27'12	
morning rise	9158 Nov 30 14:26	1° \mathbb{J} 36'49		morning max el	9159 Nov 23 19:15	17° \mathbb{L} 50'08	19°11'26
direct	9158 Dec 02 19:30	1° \mathbb{J} 19'50		asc. node	9159 Nov 25 08:56	19° \mathbb{L} 27'35	
asc. node	9158 Dec 08 11:55	3° \mathbb{J} 19'14			9159 Dec 02 17:23	0° \mathbb{J}	
morning max el	9158 Dec 10 18:26	5° \mathbb{J} 13'29	18°22'36	morning set	9159 Dec 10 15:47	14° \mathbb{J} 57'12	
	9158 Dec 26 08:21	0° \mathbb{Z}			9159 Dec 18 06:07	0° \mathbb{Z}	
morning set	9158 Dec 26 15:25	0° \mathbb{Z} 33'45					
				superior conj	9159 Dec 18 20:48	1° \mathbb{Z} 11'11	1°15'30
superior conj	9159 Jan 04 19:01	17° \mathbb{Z} 50'07	0°51'20	minimum elong	9159 Dec 18 23:54	1° \mathbb{Z} 26'05	1°15'24
minimum elong	9159 Jan 04 22:11	18° \mathbb{Z} 04'39	0°51'09	max. Earth dist.	9159 Dec 25 13:46	13° \mathbb{Z} 44'31	1.38526 AU
desc. node	9159 Jan 11 19:05	0° \approx 17'55		evening rise	9159 Dec 29 08:20	20° \mathbb{Z} 25'24	
	9159 Jan 11 14:56	0° \approx		desc. node	9159 Dec 29 16:03	20° \mathbb{Z} 58'49	
max. Earth dist.	9159 Jan 12 08:03	1° \approx 13'38	1.40708 AU				

	9160 Jan 04 00:57	0°♊			9160 Dec 09 02:29	0°♊	
	9160 Jan 24 13:29	0°♋		evening rise	9160 Dec 10 17:17	2°♊59'15	
evening max el	9160 Feb 02 17:54	10°♋33'24	24°47'08	desc. node	9160 Dec 15 13:04	11°♊32'57	
retrograde	9160 Feb 14 10:51	17°♋22'55			9160 Dec 27 01:26	0°♋	
evening set	9160 Feb 20 00:56	15°♋03'16		evening max el	9161 Jan 15 07:10	24°♋21'32	25°57'33
asc. node	9160 Feb 21 07:58	13°♋50'03			9161 Jan 22 13:19	0°♋	
min. Earth dist.	9160 Feb 24 13:49	9°♋56'04	0.67929 AU	retrograde	9161 Jan 27 20:53	1°♋31'36	
inferior conj	9160 Feb 25 14:35	8°♋34'01	1°21'25		9161 Feb 01 16:08	30°♋	
minimum elong	9160 Feb 25 12:50	8°♋39'50	1°20'54	evening set	9161 Feb 02 23:19	29°♋02'10	
morning rise	9160 Mar 02 00:57	2°♋35'55		min. Earth dist.	9161 Feb 07 05:35	24°♋29'32	0.67062 AU
direct	9160 Mar 05 17:44	1°♋17'22		asc. node	9161 Feb 07 05:04	24°♋31'07	
morning max el	9160 Mar 13 02:32	5°♋24'03	19°44'06	inferior conj	9161 Feb 08 17:52	22°♋36'00	0°30'12
greatest brilliancy	9160 Mar 25 20:49	21°♋59'44	-0.6m	minimum elong	9161 Feb 08 17:06	22°♋38'25	0°30'05
desc. node	9160 Mar 26 16:00	23°♋10'15		morning rise	9161 Feb 14 11:28	16°♋46'50	
	9160 Mar 31 05:47	0°♌		direct	9161 Feb 17 16:51	15°♋47'26	
morning set	9160 Apr 08 02:47	12°♌00'49		morning max el	9161 Feb 24 10:44	19°♋27'41	18°49'50
max. Earth dist.	9160 Apr 19 15:30	0°♌00'54	1.44512 AU		9161 Mar 04 18:11	0°♌	
	9160 Apr 19 15:16	0°♌		desc. node	9161 Mar 13 12:52	13°♌18'53	
				morning set	9161 Mar 18 11:31	21°♌00'57	
superior conj	9160 Apr 24 10:36	7°♌41'14	-2°12'24		9161 Mar 24 05:37	0°♌	
minimum elong	9160 Apr 24 10:03	7°♌39'03	2°12'33	max. Earth dist.	9161 Apr 02 08:17	14°♌14'36	1.45396 AU
	9160 May 07 21:48	0°♍					
evening rise	9160 May 08 00:41	0°♍12'11		superior conj	9161 Apr 03 22:03	16°♌42'48	-2°00'36
asc. node	9160 May 19 06:35	18°♍50'37		minimum elong	9161 Apr 03 14:32	16°♌13'16	2°00'12
evening max el	9160 May 26 05:42	27°♍58'42	18°11'29		9161 Apr 12 07:43	0°♍	
	9160 May 28 15:58	0°♎		evening rise	9161 Apr 19 02:43	10°♍53'58	
retrograde	9160 Jun 01 14:41	1°♎20'26			9161 May 01 01:38	0°♍	
evening set	9160 Jun 04 11:59	0°♎36'34		asc. node	9161 May 06 03:41	7°♍18'26	
	9160 Jun 05 13:10	30°♎		evening max el	9161 May 09 17:56	11°♍30'39	18°36'02
inferior conj	9160 Jun 10 13:34	25°♍18'27	2°55'27	retrograde	9161 May 16 06:42	15°♍04'27	
minimum elong	9160 Jun 10 15:50	25°♍12'11	2°54'46	evening set	9161 May 19 11:38	14°♍06'18	
min. Earth dist.	9160 Jun 13 05:16	22°♍23'55	0.63279 AU	inferior conj	9161 May 25 04:02	8°♍31'13	3°16'18
morning rise	9160 Jun 16 18:10	19°♍06'24		minimum elong	9161 May 25 05:04	8°♍28'02	3°15'58
desc. node	9160 Jun 22 15:48	16°♍33'25		min. Earth dist.	9161 May 27 04:43	6°♍04'03	0.65178 AU
direct	9160 Jun 23 12:02	16°♍31'07		morning rise	9161 May 30 21:44	2°♍13'20	
morning max el	9160 Jul 07 10:53	24°♍34'15	27°47'26		9161 Jun 03 13:03	30°♎	
	9160 Jul 12 08:47	0°♏		direct	9161 Jun 06 11:30	29°♎28'07	
	9160 Aug 01 13:02	0°♏		desc. node	9161 Jun 09 12:48	29°♎59'01	
morning set	9160 Aug 11 00:26	17°♏47'48			9161 Jun 09 14:00	0°♏	
asc. node	9160 Aug 15 06:01	26°♏30'22		morning max el	9161 Jun 19 21:04	7°♏22'10	27°06'30
max. Earth dist.	9160 Aug 16 03:21	28°♏23'12	1.32491 AU		9161 Jul 07 08:30	0°♏	
	9160 Aug 16 21:31	0°♐			9161 Jul 24 20:42	0°♏	
				morning set	9161 Jul 25 11:33	1°♏11'24	
superior conj	9160 Aug 18 19:14	4°♐06'03	0°35'09	max. Earth dist.	9161 Jul 29 21:34	9°♏56'59	1.33692 AU
minimum elong	9160 Aug 18 17:40	3°♐57'33	0°34'41	asc. node	9161 Aug 02 02:56	16°♏36'21	
evening rise	9160 Aug 25 17:19	19°♐07'04					
	9160 Aug 31 00:03	0°♑		superior conj	9161 Aug 02 21:42	18°♏14'53	0°07'51
evening max el	9160 Sep 18 01:34	26°♑59'17	23°26'30	minimum elong	9161 Aug 02 21:18	18°♏12'48	0°07'33
desc. node	9160 Sep 18 14:25	27°♑29'51		behind sun begin	9161 Aug 02 16:19	17°♏46'32	
	9160 Sep 21 14:18	0°♒		behind sun end	9161 Aug 03 02:18	18°♏39'05	
retrograde	9160 Oct 01 13:28	3°♒43'42			9161 Aug 08 10:17	0°♒	
evening set	9160 Oct 05 19:38	3°♒04'10		evening rise	9161 Aug 10 04:02	3°♒41'07	
	9160 Oct 12 09:05	30°♒			9161 Aug 24 15:19	0°♒	
min. Earth dist.	9160 Oct 12 11:26	29°♒56'36	0.55553 AU	evening max el	9161 Aug 30 15:58	7°♒13'37	21°48'24
inferior conj	9160 Oct 14 07:32	28°♒51'36	-5°37'59	desc. node	9161 Sep 05 11:35	11°♒39'30	
minimum elong	9160 Oct 14 05:39	28°♒54'23	5°37'48	retrograde	9161 Sep 12 04:17	13°♒26'34	
morning rise	9160 Oct 22 17:39	24°♒59'03		evening set	9161 Sep 15 00:19	13°♒08'31	
direct	9160 Oct 25 15:10	24°♒38'36		inferior conj	9161 Sep 24 02:47	9°♒09'50	-4°56'51
morning max el	9160 Nov 05 07:39	29°♒40'17	20°22'47	minimum elong	9161 Sep 23 18:07	9°♒21'56	4°55'03
	9160 Nov 05 15:54	0°♓		min. Earth dist.	9161 Sep 23 19:20	9°♒20'14	0.54733 AU
asc. node	9160 Nov 11 05:54	6°♓42'56		morning rise	9161 Oct 02 13:10	5°♒21'19	
morning set	9160 Nov 23 22:11	29°♓36'14		direct	9161 Oct 06 01:58	4°♒53'57	
	9160 Nov 24 02:49	0°♔		morning max el	9161 Oct 18 06:49	10°♒39'59	21°55'00
				asc. node	9161 Oct 29 02:51	24°♒49'31	
					9161 Nov 01 02:01	0°♓	
superior conj	9160 Dec 01 11:39	15°♔09'03	1°31'11				
minimum elong	9160 Dec 01 13:47	15°♔19'48	1°31'17	morning set	9161 Nov 08 08:09	14°♓23'05	
max. Earth dist.	9160 Dec 06 20:50	25°♔46'19	1.36425 AU				

superior conj	9161 Nov 15 11:39	29° \mathbb{M} 31'39	1°39'15	minimum elong	9162 Oct 30 17:26	14° \mathbb{M} 08'24	1°40'42
minimum elong	9161 Nov 15 12:30	29° \mathbb{M} 36'11	1°39'27	max. Earth dist.	9162 Nov 02 07:26	19° \mathbb{M} 40'55	1.33158 AU
	9161 Nov 15 17:02	0° \mathbb{A}		evening rise	9162 Nov 07 07:49	0° \mathbb{A} 03'04	
max. Earth dist.	9161 Nov 19 10:03	7° \mathbb{A} 39'45	1.34595 AU		9162 Nov 07 07:12	0° \mathbb{A}	
evening rise	9161 Nov 23 18:21	16° \mathbb{A} 15'00		desc. node	9162 Nov 19 07:11	21° \mathbb{A} 58'38	
	9161 Dec 01 07:18	0° \mathbb{B}			9162 Nov 24 08:22	0° \mathbb{B}	
desc. node	9161 Dec 02 10:07	1° \mathbb{B} 54'52		evening max el	9162 Dec 11 09:14	21° \mathbb{B} 27'09	27°24'17
	9161 Dec 21 13:08	0° \mathbb{C}		retrograde	9162 Dec 24 23:17	28° \mathbb{B} 47'41	
evening max el	9161 Dec 28 20:38	8° \mathbb{C} 03'12	26°52'20	evening set	9162 Dec 31 21:35	26° \mathbb{B} 14'02	
retrograde	9162 Jan 11 01:14	15° \mathbb{C} 22'35		min. Earth dist.	9163 Jan 04 16:59	22° \mathbb{B} 48'36	0.64236 AU
evening set	9162 Jan 17 14:58	12° \mathbb{C} 47'51		inferior conj	9163 Jan 07 04:33	20° \mathbb{B} 11'55	-1°35'25
min. Earth dist.	9162 Jan 21 15:22	8° \mathbb{C} 49'37	0.65823 AU	minimum elong	9163 Jan 07 07:31	20° \mathbb{B} 04'05	1°33'56
inferior conj	9162 Jan 23 15:20	6° \mathbb{C} 30'38	-0°29'03	asc. node	9163 Jan 11 23:14	15° \mathbb{B} 49'18	
minimum elong	9162 Jan 23 16:10	6° \mathbb{C} 28'15	0°28'28	morning rise	9163 Jan 13 19:11	14° \mathbb{B} 48'34	
asc. node	9162 Jan 25 02:09	4° \mathbb{C} 51'33		direct	9163 Jan 16 06:59	14° \mathbb{B} 17'07	
morning rise	9162 Jan 29 18:28	0° \mathbb{C} 52'55		morning max el	9163 Jan 22 17:52	17° \mathbb{B} 38'50	17°51'32
direct	9162 Feb 01 14:07	0° \mathbb{C} 09'21			9163 Jan 31 18:22	0° \mathbb{C}	
morning max el	9162 Feb 08 00:44	3° \mathbb{C} 34'59	18°12'09	morning set	9163 Feb 08 16:26	13° \mathbb{C} 13'49	
	9162 Feb 26 02:31	0° \mathbb{H}		desc. node	9163 Feb 15 06:38	24° \mathbb{C} 17'34	
morning set	9162 Feb 26 23:39	1° \mathbb{H} 25'25			9163 Feb 18 17:48	0° \mathbb{H}	
desc. node	9162 Feb 28 09:44	3° \mathbb{H} 42'58					
				superior conj	9163 Feb 21 22:23	5° \mathbb{H} 10'47	-0°47'28
superior conj	9162 Mar 14 03:42	25° \mathbb{H} 35'47	-1°29'39	minimum elong	9163 Feb 21 17:04	4° \mathbb{H} 49'20	0°46'35
minimum elong	9162 Mar 13 18:19	24° \mathbb{H} 58'57	1°28'36	max. Earth dist.	9163 Feb 26 23:39	13° \mathbb{H} 14'51	1.44949 AU
max. Earth dist.	9162 Mar 16 04:06	28° \mathbb{H} 45'36	1.45543 AU	evening rise	9163 Mar 09 19:16	0° \mathbb{Y} 04'44	
	9162 Mar 16 23:07	0° \mathbb{Y}			9163 Mar 09 18:02	0° \mathbb{Y}	
evening rise	9162 Mar 30 06:10	20° \mathbb{Y} 43'31			9163 Mar 30 00:36	0° \mathbb{B}	
	9162 Apr 05 05:19	0° \mathbb{B}		evening max el	9163 Apr 06 05:50	8° \mathbb{B} 47'40	20°14'47
greatest brilliancy	9162 Apr 11 01:20	8° \mathbb{B} 57'47	-0.7m	asc. node	9163 Apr 09 21:54	11° \mathbb{B} 54'10	
evening max el	9162 Apr 23 02:30	25° \mathbb{B} 08'21	19°17'42	retrograde	9163 Apr 14 01:53	13° \mathbb{B} 20'30	
asc. node	9162 Apr 23 00:47	25° \mathbb{B} 03'59		evening set	9163 Apr 17 23:42	11° \mathbb{B} 52'04	
retrograde	9162 Apr 30 03:19	29° \mathbb{B} 06'34		inferior conj	9163 Apr 23 07:23	5° \mathbb{B} 47'50	3°12'50
evening set	9162 May 03 16:18	27° \mathbb{B} 53'23		minimum elong	9163 Apr 23 06:09	5° \mathbb{B} 52'01	3°12'32
inferior conj	9162 May 09 02:55	22° \mathbb{B} 02'50	3°21'03	min. Earth dist.	9163 Apr 24 02:29	4° \mathbb{B} 42'45	0.67733 AU
minimum elong	9162 May 09 02:43	22° \mathbb{B} 03'30	3°20'50		9163 Apr 27 23:54	30° \mathbb{R} \mathbb{Y}	
min. Earth dist.	9162 May 10 12:22	20° \mathbb{B} 14'09	0.66677 AU	morning rise	9163 Apr 28 12:22	29° \mathbb{Y} 30'30	
morning rise	9162 May 14 12:44	15° \mathbb{B} 43'49		direct	9163 May 04 05:00	26° \mathbb{Y} 58'16	
direct	9162 May 20 17:26	13° \mathbb{B} 00'23			9163 May 11 09:22	0° \mathbb{B}	
desc. node	9162 May 27 09:46	15° \mathbb{B} 27'34		desc. node	9163 May 14 06:43	2° \mathbb{B} 28'06	
morning max el	9162 Jun 02 07:23	20° \mathbb{B} 31'19	25°59'32	morning max el	9163 May 15 16:53	3° \mathbb{B} 51'36	24°36'03
	9162 Jun 10 10:54	0° \mathbb{I}			9163 Jun 04 17:02	0° \mathbb{I}	
	9162 Jun 30 12:11	0° \mathbb{E}		morning set	9163 Jun 20 13:19	25° \mathbb{I} 45'53	
morning set	9162 Jul 08 09:25	13° \mathbb{E} 55'04			9163 Jun 22 22:34	0° \mathbb{E}	
max. Earth dist.	9162 Jul 12 05:21	21° \mathbb{E} 08'35	1.35370 AU	max. Earth dist.	9163 Jun 24 04:19	2° \mathbb{E} 14'32	1.37429 AU
	9162 Jul 16 17:11	0° \mathbb{O}					
				superior conj	9163 Jul 01 00:22	15° \mathbb{E} 05'42	-0°55'09
superior conj	9162 Jul 17 16:29	1° \mathbb{O} 57'42	-0°22'47	minimum elong	9163 Jul 01 03:51	15° \mathbb{E} 22'37	0°54'48
minimum elong	9162 Jul 17 17:50	2° \mathbb{O} 04'32	0°22'45	asc. node	9163 Jul 06 20:53	26° \mathbb{E} 39'41	
asc. node	9162 Jul 19 23:54	6° \mathbb{O} 40'57			9163 Jul 08 12:55	0° \mathbb{O}	
evening rise	9162 Jul 25 11:49	18° \mathbb{O} 03'23		evening rise	9163 Jul 09 14:12	2° \mathbb{O} 06'21	
	9162 Jul 31 12:16	0° \mathbb{N}		evening max el	9163 Jul 26 08:14	29° \mathbb{O} 27'10	19°18'13
evening max el	9162 Aug 12 17:22	17° \mathbb{N} 58'00	20°23'24		9163 Jul 26 21:54	0° \mathbb{N}	
desc. node	9162 Aug 23 08:42	23° \mathbb{N} 23'45		retrograde	9163 Aug 04 15:03	4° \mathbb{N} 03'08	
retrograde	9162 Aug 23 16:37	23° \mathbb{N} 24'02		evening set	9163 Aug 06 11:33	3° \mathbb{N} 52'54	
evening set	9162 Aug 25 16:45	23° \mathbb{N} 13'55		desc. node	9163 Aug 10 05:50	2° \mathbb{N} 35'58	
inferior conj	9162 Sep 03 20:04	19° \mathbb{N} 16'21	-3°24'37		9163 Aug 14 15:56	30° \mathbb{R} \mathbb{O}	
minimum elong	9162 Sep 03 11:12	19° \mathbb{N} 29'17	3°21'44	inferior conj	9163 Aug 15 01:42	29° \mathbb{O} 43'55	-1°29'19
min. Earth dist.	9162 Sep 05 04:30	18° \mathbb{N} 29'04	0.54836 AU	minimum elong	9163 Aug 14 21:43	29° \mathbb{O} 50'29	1°27'56
morning rise	9162 Sep 12 05:01	15° \mathbb{N} 11'16		min. Earth dist.	9163 Aug 17 17:16	27° \mathbb{O} 59'24	0.55861 AU
direct	9162 Sep 16 11:10	14° \mathbb{N} 32'22		morning rise	9163 Aug 23 05:05	25° \mathbb{O} 05'07	
morning max el	9162 Sep 29 20:54	21° \mathbb{N} 02'29	23°40'13	direct	9163 Aug 28 06:40	24° \mathbb{O} 06'29	
	9162 Oct 07 13:24	0° \mathbb{U}			9163 Sep 10 00:33	0° \mathbb{N}	
asc. node	9162 Oct 15 23:47	13° \mathbb{U} 35'14		morning max el	9163 Sep 11 09:13	1° \mathbb{N} 14'42	25°23'50
morning set	9162 Oct 23 19:45	29° \mathbb{U} 12'16			9163 Oct 01 09:13	0° \mathbb{U}	
	9162 Oct 24 04:43	0° \mathbb{M}		asc. node	9163 Oct 02 20:43	2° \mathbb{U} 50'19	
				morning set	9163 Oct 08 07:19	13° \mathbb{U} 59'03	
superior conj	9162 Oct 30 17:48	14° \mathbb{M} 10'22	1°40'31				

































































































































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minimum elong	9163 Oct 15 02:23	28°  50'34	1°35'42				
	9163 Oct 15 14:59	0° 		superior conj	9164 Sep 28 15:23	13°  47'37	1°25'14
max. Earth dist.	9163 Oct 16 11:57	1°  55'04	1.32171 AU	minimum elong	9164 Sep 28 13:22	13°  36'24	1°25'03
evening rise	9163 Oct 22 06:26	14°  15'18		max. Earth dist.	9164 Sep 28 20:49	14°  17'46	1.31651 AU
	9163 Oct 30 08:44	0° 		evening rise	9164 Oct 05 11:26	28°  43'28	
desc. node	9163 Nov 06 04:17	11°  36'40			9164 Oct 06 01:57	0° 	
	9163 Nov 19 14:33	0° 			9164 Oct 22 15:18	0° 	
evening max el	9163 Nov 23 19:02	4°  32'109	27°27'08	desc. node	9164 Oct 23 01:25	0°  37'57	
retrograde	9163 Dec 07 14:30	11°  33'744		evening max el	9164 Nov 04 23:37	16°  32'46	26°56'38
evening set	9163 Dec 14 16:17	9°  14'10		retrograde	9164 Nov 18 21:38	23°  42'33	
min. Earth dist.	9163 Dec 18 08:51	6°  16'38	0.62356 AU	evening set	9164 Nov 25 19:06	21°  39'40	
inferior conj	9163 Dec 21 06:37	3°  32'52	-2°46'40	min. Earth dist.	9164 Nov 29 14:08	19°  00'30	0.60291 AU
minimum elong	9163 Dec 21 12:00	3°  20'10	2°44'21	inferior conj	9164 Dec 02 18:05	16°  23'57	-3°57'58
	9163 Dec 25 10:58	30°  R 		minimum elong	9164 Dec 03 01:23	16°  08'51	3°55'28
morning rise	9163 Dec 28 10:00	28°  26'59		morning rise	9164 Dec 10 10:10	11°  38'18	
asc. node	9163 Dec 29 20:18	28°  07'08		direct	9164 Dec 12 14:19	11°  20'08	
direct	9163 Dec 30 16:20	28°  03'57		asc. node	9164 Dec 15 17:22	11°  59'34	
	9164 Jan 04 17:10	0° 		morning max el	9164 Dec 20 00:41	15°  01'57	18°04'16
morning max el	9164 Jan 06 11:01	1°  33'14	17°48'32		9164 Dec 30 07:59	0° 	
morning set	9164 Jan 22 08:08	26°  07'58		morning set	9165 Jan 04 16:17	9°  34'746	
	9164 Jan 24 12:26	0° 					
desc. node	9164 Feb 02 03:34	14°  58'55		superior conj	9165 Jan 14 12:41	27°  35'142	0°33'25
				minimum elong	9165 Jan 14 15:12	28°  02'51	0°33'17
superior conj	9164 Feb 02 17:11	15°  56'25	-0°04'14		9165 Jan 15 17:40	0° 	
minimum elong	9164 Feb 02 16:47	15°  54'46	0°03'57	desc. node	9165 Jan 19 00:30	5°  42'44	
behind sun begin	9164 Feb 02 08:07	15°  18'11		max. Earth dist.	9165 Jan 22 03:40	11°  01'00	1.41900 AU
behind sun end	9164 Feb 03 01:27	16°  31'16		evening rise	9165 Jan 27 12:16	19°  47'26	
max. Earth dist.	9164 Feb 09 15:59	27°  24'42	1.43686 AU		9165 Feb 03 00:39	0° 	
	9164 Feb 11 06:36	0° 			9165 Feb 24 08:51	0° 	
evening rise	9164 Feb 17 08:44	9°  35'26		evening max el	9165 Mar 01 20:52	6°  11'38	22°42'13
	9164 Mar 01 22:32	0° 		retrograde	9165 Mar 11 20:38	12°  06'37	
evening max el	9164 Mar 19 03:38	22°  09'28'32	21°24'22	asc. node	9165 Mar 13 16:11	11°  05'17	
asc. node	9164 Mar 26 19:02	27°  09'34'41		evening set	9165 Mar 16 15:30	10°  08'07	
retrograde	9164 Mar 28 00:14	27°  09'42'09		inferior conj	9165 Mar 21 23:58	3°  44'23	2°24'52
evening set	9164 Apr 01 07:58	25°  09'58'31		minimum elong	9165 Mar 21 21:45	3°  05'206	2°24'16
inferior conj	9164 Apr 06 15:05	19°  09'43'00	2°53'41	min. Earth dist.	9165 Mar 21 17:39	4°  06'20	0.68512 AU
minimum elong	9164 Apr 06 13:10	19°  09'49'42	2°53'13		9165 Mar 24 19:46	30°  R 	
min. Earth dist.	9164 Apr 06 21:02	19°  09'22'18	0.68343 AU	morning rise	9165 Mar 27 03:51	27°  03'35'33	
morning rise	9164 Apr 11 18:10	13°  09'29'09		direct	9165 Mar 31 17:15	25°  03'42'22	
direct	9164 Apr 16 21:19	11°  09'14'40			9165 Apr 08 17:25	0° 	
morning max el	9164 Apr 27 02:41	17°  09'18'56	23°06'11	morning max el	9165 Apr 09 15:58	0°  09'54'41	21°39'18
desc. node	9164 Apr 30 03:40	20°  09'36'03		desc. node	9165 Apr 17 00:35	9°  09'32'31	
	9164 May 07 15:10	0° 			9165 May 01 10:49	0° 	
	9164 May 27 18:40	0° 		morning set	9165 May 11 19:20	16°  00'17	
morning set	9164 May 31 17:52	6°  02'30'24		max. Earth dist.	9165 May 18 00:50	26°  06'50	1.41874 AU
max. Earth dist.	9164 Jun 05 00:24	13°  02'45'03	1.39687 AU		9165 May 20 08:45	0° 	
superior conj	9164 Jun 12 17:27	27°  02'30'02	-1°26'44	superior conj	9165 May 25 15:12	9°  00'55	-1°53'35
minimum elong	9164 Jun 12 22:54	27°  02'55'08	1°26'16	minimum elong	9165 May 25 21:09	9°  02'6'52	1°53'20
	9164 Jun 14 01:52	0° 		evening rise	9165 Jun 05 14:08	28°  02'42'30	
evening rise	9164 Jun 22 08:14	15°  02'42'23			9165 Jun 06 07:03	0° 	
asc. node	9164 Jun 22 17:53	16°  02'28'37		asc. node	9165 Jun 09 14:56	6°  03'03'26	
	9164 Jun 30 01:46	0° 		evening max el	9165 Jun 21 19:53	24°  02'26'11	18°10'07
evening max el	9164 Jul 08 10:21	11°  03'39'26	18°34'02	retrograde	9165 Jun 28 17:57	27°  02'56'19	
retrograde	9164 Jul 16 07:13	15°  03'44'48		evening set	9165 Jul 01 03:25	27°  02'31'42	
evening set	9164 Jul 18 09:00	15°  03'19'20		inferior conj	9165 Jul 08 03:23	22°  02'43'20	1°39'25
inferior conj	9164 Jul 26 03:49	10°  03'51'39	0°17'27	minimum elong	9165 Jul 08 06:07	22°  02'37'10	1°38'18
minimum elong	9164 Jul 26 04:27	10°  03'50'24	0°16'59	min. Earth dist.	9165 Jul 11 11:32	19°  02'44'33	0.59798 AU
desc. node	9164 Jul 27 02:59	10°  03'06'45		desc. node	9165 Jul 14 00:04	17°  02'46'12	
min. Earth dist.	9164 Jul 29 11:06	8°  03'19'55	0.57622 AU	morning rise	9165 Jul 15 05:51	16°  02'57'43	
morning rise	9164 Aug 02 20:22	5°  03'35'50		direct	9165 Jul 21 16:36	15°  02'00'08	
direct	9164 Aug 08 17:03	4°  03'09'01		morning max el	9165 Aug 05 00:52	22°  02'52'59	27°41'22
morning max el	9164 Aug 23 01:40	11° 03'44'46	26°48'38		9165 Aug 11 08:43	0°	
	9164 Sep 06 06:57	0°			9165 Aug 30 10:05	0°	
asc. node	9164 Sep 18 17:39	22° 03'26'23		morning set	9165 Sep 05 23:31	13° 03'03'50	
morning set	9164 Sep 21 17:08	28° 03'37'49		asc. node	9165 Sep 05 14:34	12° 03'17'14	





































































































































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				asc. node	9166 Aug 23 11:30	2° \mathbb{M} 17'13	
superior conj	9165 Sep 13 02:55	28° \mathbb{M} 33'15	1°09'35	max. Earth dist.	9166 Aug 26 13:22	8° \mathbb{M} 51'57	1.32034 AU
minimum elong	9165 Sep 13 00:40	28° \mathbb{M} 20'48	1°09'11				
	9165 Sep 13 18:33	0° \mathbb{L}		superior conj	9166 Aug 28 12:29	13° \mathbb{M} 08'48	0°49'02
evening rise	9165 Sep 19 20:35	13° \mathbb{L} 21'07		minimum elong	9166 Aug 28 10:31	12° \mathbb{M} 57'58	0°48'33
	9165 Sep 28 03:54	0° \mathbb{M}		evening rise	9166 Sep 04 07:49	28° \mathbb{M} 01'31	
desc. node	9165 Oct 09 22:34	18° \mathbb{M} 47'52			9166 Sep 05 06:01	0° \mathbb{L}	
evening max el	9165 Oct 17 20:39	27° \mathbb{M} 53'58	25°52'54		9166 Sep 22 03:55	0° \mathbb{M}	
	9165 Oct 20 05:51	0° \mathbb{L}		desc. node	9166 Sep 26 19:42	5° \mathbb{M} 46'02	
retrograde	9165 Oct 31 18:38	4° \mathbb{L} 56'26		evening max el	9166 Sep 29 09:57	8° \mathbb{M} 27'16	24°23'31
evening set	9165 Nov 07 01:15	3° \mathbb{L} 23'45		retrograde	9166 Oct 13 03:49	15° \mathbb{M} 21'02	
min. Earth dist.	9165 Nov 11 09:19	0° \mathbb{L} 48'11	0.58216 AU	evening set	9166 Oct 18 06:50	14° \mathbb{M} 22'57	
	9165 Nov 12 12:41	30° \mathbb{R} \mathbb{M}		min. Earth dist.	9166 Oct 23 20:50	11° \mathbb{M} 32'26	0.56379 AU
inferior conj	9165 Nov 14 11:29	28° \mathbb{M} 35'32	-4°59'49	inferior conj	9166 Oct 26 08:28	9° \mathbb{M} 59'14	-5°36'20
minimum elong	9165 Nov 14 18:30	28° \mathbb{M} 22'56	4°58'12	minimum elong	9166 Oct 26 10:59	9° \mathbb{M} 55'17	5°36'03
morning rise	9165 Nov 22 14:05	24° \mathbb{M} 12'20		morning rise	9166 Nov 03 17:15	5° \mathbb{M} 57'53	
direct	9165 Nov 24 20:44	23° \mathbb{M} 55'40		direct	9166 Nov 06 08:01	5° \mathbb{M} 39'39	
asc. node	9165 Dec 02 14:23	27° \mathbb{M} 21'58		morning max el	9166 Nov 16 02:49	10° \mathbb{M} 17'37	19°39'06
morning max el	9165 Dec 03 07:09	28° \mathbb{M} 00'50	18°40'32	asc. node	9166 Nov 19 11:21	14° \mathbb{M} 00'07	
	9165 Dec 05 03:54	0° \mathbb{L}			9166 Nov 29 07:45	0° \mathbb{L}	
morning set	9165 Dec 19 11:52	23° \mathbb{L} 58'40		morning set	9166 Dec 03 15:09	8° \mathbb{L} 29'46	
	9165 Dec 22 14:07	0° \mathbb{L}					
superior conj	9165 Dec 28 04:53	10° \mathbb{L} 45'21	1°02'39	superior conj	9166 Dec 11 12:45	24° \mathbb{L} 23'31	1°23'08
minimum elong	9165 Dec 28 08:10	11° \mathbb{L} 00'47	1°02'29	minimum elong	9166 Dec 11 15:29	24° \mathbb{L} 37'03	1°23'08
max. Earth dist.	9166 Jan 04 11:18	23° \mathbb{L} 57'05	1.39797 AU		9166 Dec 14 09:51	0° \mathbb{L}	
desc. node	9166 Jan 05 21:28	26° \mathbb{L} 25'41		max. Earth dist.	9166 Dec 17 17:22	6° \mathbb{L} 15'05	1.37612 AU
	9166 Jan 07 23:36	0° \mathbb{L}		evening rise	9166 Dec 21 10:42	13° \mathbb{L} 00'06	
evening rise	9166 Jan 08 12:50	0° \mathbb{L} 55'47		desc. node	9166 Dec 23 18:27	17° \mathbb{L} 04'13	
	9166 Jan 27 09:19	0° \mathbb{L}			9166 Dec 31 14:17	0° \mathbb{L}	
evening max el	9166 Feb 12 11:12	19° \mathbb{L} 57'47	24°02'29	evening max el	9167 Jan 22 10:31	0° \mathbb{L}	
retrograde	9166 Feb 23 13:43	26° \mathbb{L} 29'15		retrograde	9167 Jan 26 00:25	3° \mathbb{L} 46'14	25°18'30
evening set	9166 Feb 28 20:43	24° \mathbb{L} 16'46		evening set	9167 Feb 07 02:33	10° \mathbb{L} 45'27	
asc. node	9166 Feb 28 13:20	24° \mathbb{L} 32'03		asc. node	9167 Feb 12 22:06	8° \mathbb{L} 20'59	
min. Earth dist.	9166 Mar 05 14:03	18° \mathbb{L} 49'45	0.68263 AU	min. Earth dist.	9167 Feb 15 10:26	5° \mathbb{L} 48'52	
inferior conj	9166 Mar 06 08:08	17° \mathbb{L} 48'28	1°47'05	inferior conj	9167 Feb 17 08:02	3° \mathbb{L} 28'48	0.67612 AU
minimum elong	9166 Mar 06 06:03	17° \mathbb{L} 55'30	1°46'28	minimum elong	9167 Feb 18 13:44	1° \mathbb{L} 52'34	1°00'43
morning rise	9166 Mar 11 15:25	11° \mathbb{L} 46'07			9167 Feb 18 12:20	1° \mathbb{L} 57'08	1°00'20
direct	9166 Mar 15 15:31	10° \mathbb{L} 15'10		morning rise	9167 Feb 20 01:08	30° \mathbb{R} \mathbb{L}	
morning max el	9166 Mar 23 12:01	14° \mathbb{L} 42'05	20°22'13	direct	9167 Feb 24 02:55	25° \mathbb{L} 58'17	
desc. node	9166 Apr 03 21:27	29° \mathbb{L} 04'01		morning max el	9167 Feb 27 14:43	24° \mathbb{L} 48'13	
	9166 Apr 04 13:11	0° \mathbb{Y}			9167 Mar 06 16:07	28° \mathbb{L} 41'44	19°19'05
morning set	9166 Apr 20 22:17	24° \mathbb{Y} 31'28		greatest brilliancy	9167 Mar 07 22:14	0° \mathbb{L}	
	9166 Apr 24 10:42	0° \mathbb{L}		desc. node	9167 Mar 19 14:09	15° \mathbb{L} 45'39	-0.7m
max. Earth dist.	9166 Apr 30 08:50	9° \mathbb{L} 23'34	1.43709 AU		9167 Mar 21 18:19	19° \mathbb{L} 01'25	
				morning set	9167 Mar 28 22:45	0° \mathbb{Y}	
superior conj	9166 May 06 13:19	19° \mathbb{L} 28'35	-2°10'06	max. Earth dist.	9167 Mar 30 22:00	3° \mathbb{Y} 02'03	
minimum elong	9166 May 06 16:23	19° \mathbb{L} 41'13	2°10'13		9167 Apr 12 23:20	23° \mathbb{Y} 22'25	1.44976 AU
	9166 May 12 19:34	0° \mathbb{L}		superior conj	9167 Apr 16 11:26	28° \mathbb{Y} 55'22	-2°09'56
evening rise	9166 May 19 03:15	10° \mathbb{L} 55'24		minimum elong	9167 Apr 16 07:45	28° \mathbb{Y} 40'41	2°09'56
asc. node	9166 May 27 11:59	25° \mathbb{L} 17'58			9167 Apr 17 03:40	0° \mathbb{L}	
	9166 May 30 10:58	0° \mathbb{L}		evening rise	9167 Apr 30 19:03	22° \mathbb{L} 12'16	
evening max el	9166 Jun 05 08:54	7° \mathbb{L} 36'39	18°05'34		9167 May 05 11:50	0° \mathbb{L}	
retrograde	9166 Jun 11 19:40	10° \mathbb{L} 57'18		asc. node	9167 May 14 09:04	14° \mathbb{L} 05'31	
evening set	9166 Jun 14 12:45	10° \mathbb{L} 20'54		evening max el	9167 May 19 22:11	21° \mathbb{L} 02'42	18°19'40
inferior conj	9166 Jun 20 21:17	5° \mathbb{L} 12'52	2°34'32	retrograde	9167 May 26 07:45	24° \mathbb{L} 28'15	
minimum elong	9166 Jun 21 00:04	5° \mathbb{L} 05'42	2°33'36	evening set	9167 May 29 08:15	23° \mathbb{L} 38'24	
min. Earth dist.	9166 Jun 23 20:24	2° \mathbb{L} 10'47	0.62054 AU	inferior conj	9167 Jun 04 05:26	18° \mathbb{L} 12'34	3°06'31
	9166 Jun 26 06:04	30° \mathbb{R} \mathbb{L}		minimum elong	9167 Jun 04 07:13	18° \mathbb{L} 07'26	3°06'00
morning rise	9166 Jun 27 09:24	29° \mathbb{L} 07'43		min. Earth dist.	9167 Jun 06 14:47	15° \mathbb{L} 28'03	0.64130 AU
desc. node	9166 Jun 30 21:08	27° \mathbb{L} 16'39		morning rise	9167 Jun 10 05:02	11° \mathbb{L} 57'05	
direct	9166 Jul 04 02:42	26° \mathbb{L} 43'51		direct	9167 Jun 16 21:39	9° \mathbb{L} 16'24	
	9166 Jul 12 17:24	0° \mathbb{L}		desc. node	9167 Jun 17 18:09	9° \mathbb{L} 18'48	
morning max el	9166 Jul 18 06:19	4° \mathbb{L} 45'22	27°56'05	morning max el	9167 Jun 30 15:51	17° \mathbb{L} 17'15	27°33'47
	9166 Aug 06 03:50	0° \mathbb{L}			9167 Jul 11 05:44	0° \mathbb{L}	
morning set	9166 Aug 21 00:25	27° \mathbb{L} 10'56			9167 Jul 30 00:04	0° \mathbb{L}	

morning set	9167 Aug 04 17:26	10°Ω52'58			9168 Jun 11 20:03	0°Π	
max. Earth dist.	9167 Aug 09 13:16	20°Ω41'52	1.32947 AU	morning max el	9168 Jun 12 02:30	0°Π16'16	26°40'35
asc. node	9167 Aug 10 08:25	22°Ω22'15			9168 Jul 04 04:55	0°Ϣ	
				morning set	9168 Jul 17 23:28	24°Ϣ01'25	
superior conj	9167 Aug 12 18:11	27°Ω29'00	0°24'01		9168 Jul 21 01:45	0°Ω	
minimum elong	9167 Aug 12 17:02	27°Ω22'52	0°23'36	max. Earth dist.	9168 Jul 22 03:00	2°Ω04'44	1.34345 AU
	9167 Aug 13 22:17	0°Π					
evening rise	9167 Aug 19 19:16	12°Π39'26		superior conj	9168 Jul 26 17:44	11°Ω27'49	-0°04'52
	9167 Aug 28 13:12	0°Ω		minimum elong	9168 Jul 26 18:00	11°Ω29'15	0°05'01
evening max el	9167 Sep 10 21:08	18°Ω37'19	22°43'43	behind sun begin	9168 Jul 26 12:28	11°Ω00'33	
desc. node	9167 Sep 13 16:51	21°Ω06'05		behind sun end	9168 Jul 26 23:33	11°Ω58'00	
retrograde	9167 Sep 24 01:00	25°Ω11'22		asc. node	9168 Jul 27 05:23	12°Ω28'22	
evening set	9167 Sep 27 15:47	24°Ω42'41		evening rise	9168 Aug 03 05:00	27°Ω09'16	
min. Earth dist.	9167 Oct 05 04:58	21°Ω19'26	0.55097 AU		9168 Aug 04 13:53	0°Π	
inferior conj	9167 Oct 06 10:51	20°Ω36'48	-5°27'36	evening max el	9168 Aug 22 15:34	29°Π01'58	21°10'08
minimum elong	9167 Oct 06 05:37	20°Ω44'18	5°26'56		9168 Aug 23 16:07	0°Ω	
morning rise	9167 Oct 14 21:21	16°Ω48'34		desc. node	9168 Aug 30 13:59	4°Ω17'22	
direct	9167 Oct 18 00:55	16°Ω25'46		retrograde	9168 Sep 03 13:46	4°Ω56'39	
morning max el	9167 Oct 29 09:27	21°Ω45'36	20°59'58	evening set	9168 Sep 05 22:45	4°Ω43'30	
	9167 Nov 05 05:58	0°Π		inferior conj	9168 Sep 15 03:36	0°Ω47'01	-4°22'48
asc. node	9167 Nov 06 08:19	1°Π38'30		minimum elong	9168 Sep 14 17:55	1°Ω00'39	4°20'14
morning set	9167 Nov 17 23:17	23°Π12'32		min. Earth dist.	9168 Sep 15 13:33	0°Ω32'59	0.54651 AU
	9167 Nov 21 05:19	0°♄			9168 Sep 16 13:05	30°RΠ	
				morning rise	9168 Sep 23 13:34	26°Π53'41	
superior conj	9167 Nov 25 07:53	8°♄33'03	1°35'29	direct	9168 Sep 27 09:14	26°Π22'16	
minimum elong	9167 Nov 25 09:29	8°♄41'18	1°35'39		9168 Oct 07 05:01	0°Ω	
max. Earth dist.	9167 Nov 30 02:24	18°♄09'52	1.35594 AU	morning max el	9168 Oct 10 04:12	2°Ω28'17	22°38'57
evening rise	9167 Dec 04 02:54	25°♄52'25		asc. node	9168 Oct 23 05:16	20°Ω03'32	
	9167 Dec 06 08:39	0°Ϣ			9168 Oct 28 12:39	0°Π	
desc. node	9167 Dec 10 15:28	7°Ϣ33'35		morning set	9168 Nov 01 10:10	8°Π01'19	
	9167 Dec 25 01:29	0°≈					
evening max el	9168 Jan 08 13:33	17°≈31'55	26°23'11	superior conj	9168 Nov 08 10:52	23°Π04'10	1°40'34
retrograde	9168 Jan 21 10:23	24°≈47'53		minimum elong	9168 Nov 08 11:11	23°Π05'53	1°40'47
evening set	9168 Jan 27 17:53	22°≈15'12			9168 Nov 11 17:55	0°♄	
min. Earth dist.	9168 Jan 31 21:26	17°≈57'32	0.66576 AU	max. Earth dist.	9168 Nov 11 18:45	0°♄04'17	1.33924 AU
asc. node	9168 Feb 02 07:32	16°≈14'08		evening rise	9168 Nov 16 09:43	9°♄23'44	
inferior conj	9168 Feb 02 14:48	15°≈51'59	0°06'02	desc. node	9168 Nov 26 12:33	27°♄48'54	
minimum elong	9168 Feb 02 14:38	15°≈52'29	0°06'10		9168 Nov 27 19:58	0°Ϣ	
transit middle	9168 Feb 02 14:38	15°≈52'29	0°06'10		9168 Dec 19 23:14	0°≈	
transit begin	9168 Feb 02 11:58	16°≈00'36		evening max el	9168 Dec 21 02:46	1°≈07'35	27°09'09
transit end	9168 Feb 02 17:18	15°≈44'23		retrograde	9169 Jan 03 12:23	8°≈29'10	
morning rise	9168 Feb 08 12:13	10°≈07'38		evening set	9169 Jan 10 06:03	5°≈53'57	
direct	9168 Feb 11 13:11	9°≈15'34		min. Earth dist.	9169 Jan 14 04:08	2°≈09'52	0.65182 AU
morning max el	9168 Feb 18 03:10	12°≈48'20	18°31'48	inferior conj	9169 Jan 16 09:06	29°Ϣ42'05	-0°56'24
	9168 Mar 01 17:20	0°♄		minimum elong	9169 Jan 16 10:47	29°Ϣ37'24	0°55'28
desc. node	9168 Mar 07 15:11	9°♄17'17			9169 Jan 16 02:43	30°RϢ	
morning set	9168 Mar 09 17:20	12°♄35'30		asc. node	9169 Jan 19 04:36	26°Ϣ43'59	
	9168 Mar 20 18:44	0°Υ		morning rise	9169 Jan 22 16:55	24°Ϣ10'03	
				direct	9169 Jan 25 08:51	23°Ϣ32'14	
superior conj	9168 Mar 25 18:08	7°Υ47'12	-1°49'29	morning max el	9169 Jan 31 18:51	26°Ϣ55'22	18°01'14
minimum elong	9168 Mar 25 08:55	7°Υ11'10	1°48'46		9169 Feb 03 12:21	0°≈	
max. Earth dist.	9168 Mar 25 17:32	7°Υ44'51	1.45548 AU	morning set	9169 Feb 18 18:07	23°≈37'22	
	9168 Apr 08 21:10	0°♄		desc. node	9169 Feb 22 12:06	29°≈46'32	
evening rise	9168 Apr 10 11:02	2°♄30'07			9169 Feb 22 15:24	0°♄	
greatest brilliancy	9168 Apr 19 08:39	16°♄35'43	-0.8m				
	9168 Apr 28 10:40	0°Π		superior conj	9169 Mar 05 03:21	16°♄53'18	-1°12'31
asc. node	9168 Apr 30 06:09	2°Π16'44		minimum elong	9169 Mar 04 19:15	16°♄21'13	1°11'26
evening max el	9168 May 02 09:01	4°Π37'18	18°51'43	max. Earth dist.	9169 Mar 08 13:01	22°♄15'14	1.45380 AU
retrograde	9168 May 09 02:11	8°Π20'28			9169 Mar 13 11:59	0°Υ	
evening set	9168 May 12 10:20	7°Π16'10		evening rise	9169 Mar 21 06:51	12°Υ03'26	
inferior conj	9168 May 17 23:54	1°Π34'18	3°20'04		9169 Apr 02 00:35	0°♄	
minimum elong	9168 May 18 00:24	1°Π32'43	3°19'48	greatest brilliancy	9169 Apr 03 22:48	2°♄52'19	-0.7m
	9168 May 19 05:55	30°R♄		evening max el	9169 Apr 15 15:32	18°♄16'22	19°40'17
min. Earth dist.	9168 May 19 18:05	29°♄22'16	0.65867 AU	asc. node	9169 Apr 17 03:16	19°♄40'43	
morning rise	9168 May 23 13:50	25°♄15'09		retrograde	9169 Apr 22 23:50	22°♄28'13	
direct	9168 May 30 00:09	22°♄29'15		evening set	9169 Apr 26 16:25	21°♄08'45	
desc. node	9168 Jun 03 15:08	23°♄40'11		inferior conj	9169 May 02 01:30	15°♄12'23	3°18'59

minimum elong	9169 May 02 00:49	15° 8 14'37	3°18'45	min. Earth dist.	9170 Apr 16 21:01	28° 9 16'22	0.68052 AU
min. Earth dist.	9169 May 03 04:49	13° 8 41'35	0.67186 AU	morning rise	9170 Apr 21 11:27	22° 9 46'42	
morning rise	9169 May 07 08:54	8° 8 53'44		direct	9170 Apr 26 22:35	20° 9 21'17	
direct	9169 May 13 08:49	6° 8 13'43		morning max el	9170 May 07 21:30	26° 9 54'00	23°58'01
desc. node	9169 May 21 12:07	9° 8 51'21		desc. node	9170 May 08 09:05	27° 9 23'39	
morning max el	9169 May 25 12:18	13° 8 30'36	25°25'17		9170 May 10 18:39	0° 8	
	9169 Jun 07 20:51	0° II			9170 Jun 01 11:24	0° II	
	9169 Jun 26 23:35	0° ☾		morning set	9170 Jun 12 09:00	17° II 49'12	
morning set	9169 Jun 30 14:20	6° ☾ 24'30		max. Earth dist.	9170 Jun 16 03:11	24° II 23'02	1.38386 AU
max. Earth dist.	9169 Jul 04 06:06	13° ☾ 08'56	1.36204 AU		9170 Jun 19 05:55	0° ☾	
superior conj	9169 Jul 10 08:20	24° ☾ 57'16	-0°36'25	superior conj	9170 Jun 23 10:32	7° ☾ 48'56	-1°08'49
minimum elong	9169 Jul 10 10:34	25° ☾ 08'22	0°36'15	minimum elong	9170 Jun 23 14:56	8° ☾ 09'48	1°08'23
	9169 Jul 12 20:36	0° Ω		asc. node	9170 Jun 30 23:21	22° ☾ 26'43	
asc. node	9169 Jul 14 02:21	2° Ω 31'04		evening rise	9170 Jul 02 10:07	25° ☾ 17'31	
evening rise	9169 Jul 18 10:49	11° Ω 24'12			9170 Jul 04 20:04	0° Ω	
	9169 Jul 28 08:05	0° ♍		evening max el	9170 Jul 18 19:04	21° Ω 54'30	18°56'49
evening max el	9169 Aug 04 22:55	10° ♍ 05'40	19°53'12	retrograde	9170 Jul 27 09:57	26° Ω 11'17	
retrograde	9169 Aug 15 04:33	15° ♍ 09'20		evening set	9170 Jul 29 08:18	25° Ω 59'14	
evening set	9169 Aug 17 01:35	14° ♍ 59'53		desc. node	9170 Aug 04 08:16	23° Ω 14'52	
desc. node	9169 Aug 17 11:08	14° ♍ 55'32		inferior conj	9170 Aug 06 14:27	21° Ω 42'33	-0°41'37
inferior conj	9169 Aug 26 00:40	10° ♍ 59'16	-2°36'25	minimum elong	9170 Aug 06 12:41	21° Ω 45'39	0°41'07
minimum elong	9169 Aug 25 17:35	11° ♍ 10'03	2°33'57	min. Earth dist.	9170 Aug 09 14:37	19° Ω 36'22	0.56545 AU
min. Earth dist.	9169 Aug 28 00:14	9° ♍ 46'53	0.55166 AU	morning rise	9170 Aug 14 13:52	16° Ω 48'04	
morning rise	9169 Sep 03 07:52	6° ♍ 41'13		direct	9170 Aug 20 00:04	15° Ω 38'20	
direct	9169 Sep 07 22:23	5° ♍ 54'44		morning max el	9170 Sep 03 05:52	22° Ω 58'35	26°03'07
morning max el	9169 Sep 21 16:28	12° ♍ 42'25	24°25'26		9170 Sep 09 12:53	0° ♍	
	9169 Oct 04 23:11	0° ♊		asc. node	9170 Sep 26 23:11	28° ♍ 28'08	
asc. node	9169 Oct 10 02:13	9° ♊ 03'02			9170 Sep 27 17:32	0° ♊	
morning set	9169 Oct 16 21:57	22° ♊ 49'59		morning set	9170 Oct 01 08:59	7° ♊ 33'57	
	9169 Oct 20 05:28	0° ♋		superior conj	9170 Oct 08 05:47	22° ♊ 36'31	1°31'54
superior conj	9169 Oct 23 18:54	7° ♋ 47'33	1°39'10	minimum elong	9170 Oct 08 04:05	22° ♊ 27'10	1°31'50
minimum elong	9169 Oct 23 18:04	7° ♋ 43'02	1°39'18	max. Earth dist.	9170 Oct 09 02:25	24° ♊ 30'38	1.31900 AU
max. Earth dist.	9169 Oct 25 19:26	12° ♋ 11'00	1.32684 AU		9170 Oct 11 14:25	0° ♋	
evening rise	9169 Oct 31 03:29	23° ♋ 23'25		evening rise	9170 Oct 15 05:07	7° ♋ 43'18	
	9169 Nov 03 11:24	0° ♌			9170 Oct 26 22:02	0° ♌	
desc. node	9169 Nov 13 09:38	17° ♌ 42'49		desc. node	9170 Oct 31 06:44	7° ♌ 06'37	
	9169 Nov 21 12:18	0° ♍		evening max el	9170 Nov 15 22:43	26° ♌ 58'43	27°18'20
evening max el	9169 Dec 03 14:41	14° ♍ 21'06	27°29'27		9170 Nov 19 11:45	0° ♍	
retrograde	9169 Dec 17 07:37	21° ♍ 40'01		retrograde	9170 Nov 29 19:09	4° ♍ 11'35	
evening set	9169 Dec 24 07:59	19° ♍ 09'52		evening set	9170 Dec 06 20:23	1° ♍ 55'38	
min. Earth dist.	9169 Dec 28 01:57	15° ♍ 56'47	0.63466 AU		9170 Dec 09 12:02	30° ♋ ♌	
inferior conj	9169 Dec 30 17:58	13° ♍ 15'51	-2°05'15	min. Earth dist.	9170 Dec 10 13:13	29° ♌ 07'26	0.61496 AU
minimum elong	9169 Dec 30 21:58	13° ♍ 05'47	2°03'23	inferior conj	9170 Dec 13 14:14	26° ♌ 25'09	-3°17'21
asc. node	9170 Jan 06 01:41	8° ♍ 11'55		minimum elong	9170 Dec 13 20:35	26° ♌ 10'59	3°14'51
morning rise	9170 Jan 06 13:54	7° ♍ 59'12		morning rise	9170 Dec 20 23:07	21° ♌ 27'21	
direct	9170 Jan 08 23:03	7° ♍ 31'44		direct	9170 Dec 23 04:12	21° ♌ 06'40	
morning max el	9170 Jan 15 12:19	10° ♍ 54'55	17°48'00	asc. node	9170 Dec 23 22:46	21° ♌ 09'17	
	9170 Jan 28 10:45	0° ♎		morning max el	9170 Dec 30 04:20	24° ♌ 38'46	17°52'52
morning set	9170 Jan 31 21:30	5° ♎ 56'34			9171 Jan 03 13:30	0° ♎	
desc. node	9170 Feb 09 09:02	20° ♎ 24'33		morning set	9171 Jan 14 20:53	19° ♎ 12'11	
					9171 Jan 20 20:43	0° ♎	
superior conj	9170 Feb 13 07:34	26° ♎ 56'28	-0°28'45	superior conj	9171 Jan 25 13:07	8° ♎ 12'21	0°12'43
minimum elong	9170 Feb 13 04:29	26° ♎ 43'50	0°28'07	minimum elong	9171 Jan 25 14:15	8° ♎ 17'14	0°12'46
	9170 Feb 15 04:30	0° ♏		behind sun begin	9171 Jan 25 09:08	7° ♎ 55'08	
max. Earth dist.	9170 Feb 19 07:36	6° ♏ 38'45	1.44490 AU	behind sun end	9171 Jan 25 19:22	8° ♎ 39'18	
evening rise	9170 Feb 28 18:12	21° ♏ 24'31		desc. node	9171 Jan 27 05:57	11° ♎ 07'20	
	9170 Mar 06 09:38	0° ♐		max. Earth dist.	9171 Feb 01 22:35	20° ♎ 37'49	1.42979 AU
	9170 Mar 27 20:57	0° ♑			9171 Feb 07 18:34	0° ♏	
evening max el	9170 Mar 29 16:38	1° ♑ 57'25	20°43'08	evening rise	9171 Feb 08 12:15	1° ♏ 09'32	
asc. node	9170 Apr 04 00:23	6° ♑ 03'51			9171 Feb 27 22:34	0° ♐	
retrograde	9170 Apr 06 22:27	6° ♑ 46'34		evening max el	9171 Mar 12 12:19	15° ♐ 39'05	21°56'48
evening set	9170 Apr 11 00:24	5° ♑ 11'38		retrograde	9171 Mar 21 20:06	21° ♐ 10'17	
	9170 Apr 15 14:51	30° ♋ ♐		asc. node	9171 Mar 21 21:31	21° ♐ 10'16	
inferior conj	9170 Apr 16 07:36	29° ♐ 02'31	3°05'56	evening set	9171 Mar 26 08:33	19° ♐ 20'00	
minimum elong	9170 Apr 16 06:02	29° ♐ 07'55	3°05'35				

inferior conj	9171 Mar 31 16:01	13° Υ 00'35	2°42'35			9172 Mar 12 20:36	30° κ 8	
minimum elong	9171 Mar 31 13:55	13° Υ 07'55	2°42'03	min. Earth dist.		9172 Mar 14 13:22	27° κ 43'18	0.68453 AU
min. Earth dist.	9171 Mar 31 16:35	12° Υ 58'38	0.68467 AU	inferior conj		9172 Mar 15 00:49	27° κ 03'50	2°09'56
morning rise	9171 Apr 05 19:08	6° Υ 48'58		minimum elong		9172 Mar 14 22:36	27° κ 11'29	2°09'18
direct	9171 Apr 10 16:24	4° Υ 43'28		morning rise		9172 Mar 20 05:51	20° κ 57'37	
morning max el	9171 Apr 20 08:26	10° Υ 25'00	22°28'32	direct		9172 Mar 24 13:23	19° κ 14'10	
desc. node	9171 Apr 25 06:01	15° Υ 54'14		morning max el		9172 Apr 02 00:25	24° κ 06'18	21°05'03
	9171 May 05 18:46	0° \mathcal{B}				9172 Apr 07 04:48	0° Υ	
morning set	9171 May 24 02:13	28° \mathcal{B} 02'26		desc. node		9172 Apr 11 02:55	5° Υ 07'15	
	9171 May 25 06:55	0° Π				9172 Apr 28 03:32	0° \mathcal{B}	
max. Earth dist.	9171 May 29 01:02	6° Π 16'08	1.40647 AU	morning set		9172 May 02 16:44	7° \mathcal{B} 03'29	
				max. Earth dist.		9172 May 10 04:21	19° \mathcal{B} 01'18	1.42709 AU
						9172 May 16 18:44	0° Π	
superior conj	9171 Jun 05 19:57	19° Π 51'57	-1°38'59					
minimum elong	9171 Jun 06 01:54	20° Π 18'43	1°38'34					
	9171 Jun 11 08:40	0° \mathcal{E}		superior conj		9172 May 17 07:59	0° Π 56'22	-2°02'14
evening rise	9171 Jun 15 23:30	8° \mathcal{E} 40'02		minimum elong		9172 May 17 13:14	1° Π 18'44	2°02'09
asc. node	9171 Jun 17 20:21	12° \mathcal{E} 10'32		evening rise		9172 May 28 22:51	21° Π 21'36	
	9171 Jun 28 08:31	0° \mathcal{Q}				9172 Jun 02 19:04	0° \mathcal{E}	
evening max el	9171 Jul 02 00:43	4° \mathcal{Q} 22'22	18°21'20	asc. node		9172 Jun 03 17:22	1° \mathcal{E} 37'38	
retrograde	9171 Jul 09 10:33	8° \mathcal{Q} 05'24		evening max el		9172 Jun 14 12:06	17° \mathcal{E} 20'14	18°05'49
evening set	9171 Jul 11 15:27	7° \mathcal{Q} 46'29		retrograde		9172 Jun 21 04:14	20° \mathcal{E} 44'46	
inferior conj	9171 Jul 19 01:55	3° \mathcal{Q} 09'39	0°55'34	evening set		9172 Jun 23 16:50	20° \mathcal{E} 15'35	
minimum elong	9171 Jul 19 03:46	3° \mathcal{Q} 05'50	0°54'41	inferior conj		9172 Jun 30 09:47	15° \mathcal{E} 18'47	2°05'54
desc. node	9171 Jul 22 05:23	0° \mathcal{Q} 34'40		minimum elong		9172 Jun 30 12:44	15° \mathcal{E} 11'44	2°04'47
min. Earth dist.	9171 Jul 22 10:56	0° \mathcal{Q} 23'44	0.58519 AU	min. Earth dist.		9172 Jul 03 15:02	12° \mathcal{E} 15'26	0.60763 AU
	9171 Jul 22 23:14	30° κ 8		morning rise		9172 Jul 07 05:59	9° \mathcal{E} 23'15	
morning rise	9171 Jul 26 12:41	27° \mathcal{E} 39'45		desc. node		9172 Jul 08 02:27	8° \mathcal{E} 51'56	
direct	9171 Aug 01 15:55	26° \mathcal{E} 00'05		direct		9172 Jul 13 20:21	7° \mathcal{E} 13'23	
	9171 Aug 11 17:37	0° \mathcal{Q}		morning max el		9172 Jul 28 03:30	15° \mathcal{E} 11'57	27°52'20
morning max el	9171 Aug 16 01:17	3° \mathcal{Q} 44'03	27°15'36			9172 Aug 09 04:05	0° \mathcal{Q}	
	9171 Sep 04 05:18	0° \mathcal{M}				9172 Aug 26 17:23	0° \mathcal{M}	
asc. node	9171 Sep 13 20:07	18° \mathcal{M} 11'31		morning set		9172 Aug 29 21:54	6° \mathcal{M} 27'32	
morning set	9171 Sep 15 17:35	22° \mathcal{M} 08'25		asc. node		9172 Aug 30 17:00	8° \mathcal{M} 07'02	
	9171 Sep 19 09:06	0° \mathcal{L}		max. Earth dist.		9172 Sep 04 21:06	19° \mathcal{M} 14'30	1.31722 AU
superior conj	9171 Sep 22 17:36	7° \mathcal{L} 25'16	1°19'12	superior conj		9172 Sep 06 04:31	22° \mathcal{M} 07'35	1°01'26
minimum elong	9171 Sep 22 15:25	7° \mathcal{L} 13'12	1°18'56	minimum elong		9172 Sep 06 02:19	21° \mathcal{M} 55'28	1°01'00
max. Earth dist.	9171 Sep 22 12:14	6° \mathcal{L} 55'28	1.31574 AU			9172 Sep 09 18:00	0° \mathcal{L}	
evening rise	9171 Sep 29 12:09	22° \mathcal{L} 16'22		evening rise		9172 Sep 12 22:23	6° \mathcal{L} 55'54	
	9171 Oct 03 05:33	0° \mathcal{M}				9172 Sep 24 20:29	0° \mathcal{M}	
desc. node	9171 Oct 18 03:51	25° \mathcal{M} 48'31		desc. node		9172 Oct 04 00:59	13° \mathcal{M} 31'13	
	9171 Oct 21 05:13	0° \mathcal{J}		evening max el		9172 Oct 09 17:27	19° \mathcal{M} 48'17	25°17'17
evening max el	9171 Oct 29 00:08	8° \mathcal{J} 49'09	26°33'15	retrograde		9172 Oct 23 14:54	26° \mathcal{M} 48'35	
retrograde	9171 Nov 11 22:12	15° \mathcal{J} 56'07		evening set		9172 Oct 29 11:06	25° \mathcal{M} 30'28	
evening set	9171 Nov 18 15:04	14° \mathcal{J} 04'43		min. Earth dist.		9172 Nov 03 05:24	22° \mathcal{M} 50'46	0.57380 AU
min. Earth dist.	9171 Nov 22 13:46	11° \mathcal{J} 29'33	0.59396 AU	inferior conj		9172 Nov 06 03:16	20° \mathcal{M} 52'55	-5°19'37
inferior conj	9171 Nov 25 18:26	9° \mathcal{J} 00'52	-4°26'09	minimum elong		9172 Nov 06 08:58	20° \mathcal{M} 43'16	5°18'36
minimum elong	9171 Nov 26 02:01	8° \mathcal{J} 46'06	4°23'53	morning rise		9172 Nov 14 09:09	16° \mathcal{M} 39'38	
morning rise	9171 Dec 03 15:27	4° \mathcal{J} 25'01		direct		9172 Nov 16 18:18	16° \mathcal{M} 22'50	
direct	9171 Dec 05 20:05	4° \mathcal{J} 07'51		morning max el		9172 Nov 25 17:53	20° \mathcal{M} 41'03	19°02'41
asc. node	9171 Dec 10 19:50	5° \mathcal{J} 42'00		asc. node		9172 Nov 26 16:50	21° \mathcal{M} 38'53	
morning max el	9171 Dec 13 15:29	7° \mathcal{J} 58'05	18°17'10			9172 Dec 02 21:57	0° \mathcal{J}	
	9171 Dec 27 18:52	0° \mathcal{Z}		morning set		9172 Dec 12 09:41	17° \mathcal{J} 27'53	
morning set	9171 Dec 29 10:27	3° \mathcal{Z} 07'17				9172 Dec 18 18:04	0° \mathcal{Z}	
superior conj	9172 Jan 07 18:07	20° \mathcal{Z} 35'13	0°46'53	superior conj		9172 Dec 20 17:35	3° \mathcal{Z} 49'47	1°12'21
minimum elong	9172 Jan 07 21:10	20° \mathcal{Z} 49'07	0°46'42	minimum elong		9172 Dec 20 20:45	4° \mathcal{Z} 04'59	1°12'15
	9172 Jan 13 01:03	0° \approx		max. Earth dist.		9172 Dec 27 14:24	16° \mathcal{Z} 35'03	1.38857 AU
desc. node	9172 Jan 14 02:53	1° \approx 51'43		desc. node		9172 Dec 30 23:50	22° \mathcal{Z} 33'27	
max. Earth dist.	9172 Jan 15 08:26	3° \approx 58'11	1.41024 AU	evening rise		9172 Dec 31 10:11	23° \mathcal{Z} 18'05	
evening rise	9172 Jan 20 00:20	11° \approx 44'59				9173 Jan 04 09:36	0° \approx	
	9172 Jan 31 17:03	0° κ				9173 Jan 24 13:12	0° κ	
evening max el	9172 Feb 23 03:54	29° κ 23'08	23°16'21	evening max el		9173 Feb 04 17:28	13° κ 10'17	24°35'45
	9172 Feb 23 18:52	0° Υ		retrograde		9173 Feb 16 06:53	19° κ 55'30	
retrograde	9172 Mar 04 15:22	5° Υ 35'06		evening set		9173 Feb 21 19:05	17° κ 37'43	
asc. node	9172 Mar 07 18:39	4° Υ 46'59		asc. node		9173 Feb 22 15:47	16° κ 50'20	
evening set	9172 Mar 09 15:18	3° Υ 30'17		min. Earth dist.		9173 Feb 26 09:07	12° κ 25'16	0.68030 AU

inferior conj	9173 Feb 27 08:07	11°  08'31	1°28'30			9174 Feb 07 11:47	30° 	
minimum elong	9173 Feb 27 06:16	11°  14'44	1°27'56	asc. node		9174 Feb 09 12:55	27°  39'18	
morning rise	9173 Mar 04 17:36	5°  09'09		min. Earth dist.		9174 Feb 10 01:30	27°  00'21	0.67218 AU
direct	9173 Mar 08 12:14	3°  47'23		inferior conj		9174 Feb 11 12:03	25°  11'13	0°38'32
morning max el	9173 Mar 15 23:50	7°  59'01	19°53'26	minimum elong		9174 Feb 11 11:06	25°  14'14	0°38'19
desc. node	9173 Mar 28 23:47	24°  50'51		morning rise		9174 Feb 17 04:26	19°  20'37	
	9173 Apr 01 11:30	0°  Y		direct		9174 Feb 20 11:29	18°  18'28	
morning set	9173 Apr 11 15:10	15°  Y25'09		morning max el		9174 Feb 27 06:59	22°  01'38	18°56'53
	9173 Apr 20 23:29	0°  8				9174 Mar 05 19:47	0°  X	
max. Earth dist.	9173 Apr 22 14:42	2°  835'32	1.44322 AU	greatest brilliancy		9174 Mar 13 23:32	12°  X03'27	-0.8m
				desc. node		9174 Mar 15 20:40	14°  X56'51	
superior conj	9173 Apr 27 19:33	10°  857'03	-2°12'24	morning set		9174 Mar 21 20:55	24°  X15'54	
minimum elong	9173 Apr 27 20:04	10°  859'08	2°12'35			9174 Mar 25 13:22	0°  Y	
	9173 May 09 06:25	0°  II		max. Earth dist.		9174 Apr 05 07:07	16°  Y46'27	1.45311 AU
evening rise	9173 May 11 03:23	3°  II11'26						
asc. node	9173 May 21 14:25	20°  II41'58		superior conj		9174 Apr 07 09:22	20°  Y04'00	-2°03'42
	9173 May 28 10:30	0°  ☿		minimum elong		9174 Apr 07 02:43	19°  Y37'49	2°03'27
evening max el	9173 May 29 01:39	0°  ☿38'57	18°09'25			9174 Apr 13 15:52	0°  8	
retrograde	9173 Jun 04 10:45	3°  ☿59'52		evening rise		9174 Apr 22 08:59	14°  802'10	
evening set	9173 Jun 07 06:59	3°  ☿17'58				9174 May 02 06:00	0°  II	
	9173 Jun 11 13:28	30°  RII		asc. node		9174 May 08 11:30	9°  II15'16	
inferior conj	9173 Jun 13 10:15	28°  II02'30	2°50'37	evening max el		9174 May 12 14:15	14°  II09'37	18°31'16
minimum elong	9173 Jun 13 12:41	27°  II55'55	2°49'51	retrograde		9174 May 19 01:52	17°  II40'48	
min. Earth dist.	9173 Jun 16 04:00	25°  II05'24	0.62969 AU	evening set		9174 May 22 05:40	16°  II44'45	
morning rise	9173 Jun 19 16:44	21°  II52'05		inferior conj		9174 May 27 23:11	11°  II11'59	3°14'16
desc. node	9173 Jun 24 23:30	19°  II26'18		minimum elong		9174 May 28 00:26	11°  II08'15	3°13'52
direct	9173 Jun 26 10:44	19°  II19'20		min. Earth dist.		9174 May 30 02:07	8°  II40'01	0.64918 AU
morning max el	9173 Jul 10 10:52	27°  II22'19	27°50'48	morning rise		9174 Jun 02 18:20	4°  II54'39	
	9173 Jul 12 22:33	0°  ☿		direct		9174 Jun 09 09:01	2°  II10'20	
	9173 Aug 02 21:06	0°  Ω		desc. node		9174 Jun 11 20:32	2°  II30'41	
morning set	9173 Aug 13 19:48	20°  Ω25'35		morning max el		9174 Jun 22 20:56	10°  II06'18	27°14'30
asc. node	9173 Aug 17 13:54	28°  Ω10'11				9174 Jul 08 12:12	0°  ☿	
	9173 Aug 18 10:40	0°  ♍				9174 Jul 26 07:42	0°  Ω	
max. Earth dist.	9173 Aug 19 01:14	1°  ♍17'33	1.32358 AU	morning set		9174 Jul 28 08:33	3°  Ω54'14	
				max. Earth dist.		9174 Aug 01 21:06	12°  Ω56'05	1.33486 AU
superior conj	9173 Aug 21 12:44	6°  ♍38'19	0°38'57	asc. node		9174 Aug 04 10:50	18°  Ω16'05	
minimum elong	9173 Aug 21 11:02	6°  ♍29'06	0°38'30					
evening rise	9173 Aug 28 09:58	21°  ♍36'39		superior conj		9174 Aug 05 16:07	20°  Ω50'22	0°12'13
	9173 Sep 01 10:34	0°  ♌		minimum elong		9174 Aug 05 15:30	20°  Ω47'06	0°11'54
desc. node	9173 Sep 20 22:07	29°  ♌52'04		behind sun begin		9174 Aug 05 11:45	20°  Ω27'15	
evening max el	9173 Sep 21 05:04	0°  ♌09'02	23°41'26	behind sun end		9174 Aug 05 19:15	21°  Ω06'59	
	9173 Sep 21 01:21	0°  ♌				9174 Aug 09 23:06	0°  ♍	
retrograde	9173 Oct 04 18:52	6°  ♌56'03		evening rise		9174 Aug 12 20:56	6°  ♍12'02	
evening set	9173 Oct 09 06:38	6°  ♌12'03				9174 Aug 25 13:54	0°  ♌	
min. Earth dist.	9173 Oct 15 15:21	3°  ♌09'24	0.55749 AU	evening max el		9174 Sep 02 18:20	10°  ♌21'05	22°02'21
inferior conj	9173 Oct 17 15:52	1°  ♌56'57	-5°39'17	desc. node		9174 Sep 07 19:16	14°  ♌21'23	
minimum elong	9173 Oct 17 15:11	1°  ♌57'57	5°39'08	retrograde		9174 Sep 15 11:01	16°  ♌40'00	
	9173 Oct 21 01:41	30°  R♌		evening set		9174 Sep 18 11:39	16°  ♌19'36	
morning rise	9173 Oct 26 01:44	28°  ♌02'20		min. Earth dist.		9174 Sep 26 23:04	12°  ♌38'20	0.54802 AU
direct	9173 Oct 28 21:24	27°  ♌42'31		inferior conj		9174 Sep 27 12:35	12°  ♌19'24	-5°06'45
	9173 Nov 05 00:51	0°  ♌		minimum elong		9174 Sep 27 04:37	12°  ♌30'34	5°05'16
morning max el	9173 Nov 08 08:08	2°  ♌37'53	20°10'45	morning rise		9174 Oct 05 23:03	8°  ♌31'43	
asc. node	9173 Nov 13 13:49	8°  ♌44'50		direct		9174 Oct 09 09:30	8°  ♌05'38	
	9173 Nov 25 14:45	0°  ♌		morning max el		9174 Oct 21 09:08	13°  ♌44'36	21°40'15
morning set	9173 Nov 26 15:20	2°  ♌05'00		asc. node		9174 Oct 31 10:46	26°  ♌44'29	
						9174 Nov 02 09:07	0°  ♌	
superior conj	9173 Dec 04 06:43	17°  ♌42'37	1°29'17	morning set		9174 Nov 11 00:55	16°  ♌51'11	
minimum elong	9173 Dec 04 09:01	17°  ♌54'12	1°29'23			9174 Nov 17 06:15	0°  ♌	
max. Earth dist.	9173 Dec 09 21:02	28°  ♌40'17	1.36728 AU					
	9173 Dec 10 13:53	0°  ♌		superior conj		9174 Nov 18 05:34	2°  ♌02'19	1°38'29
evening rise	9173 Dec 13 16:23	5°  ♌44'29		minimum elong		9174 Nov 18 06:38	2°  ♌07'51	1°38'41
desc. node	9173 Dec 17 20:50	13°  ♌08'45		max. Earth dist.		9174 Nov 22 09:13	10°  ♌34'08	1.34841 AU
	9173 Dec 28 06:53	0°  ♌		evening rise		9174 Nov 26 15:17	18°  ♌54'34	
evening max el	9174 Jan 18 06:46	26°  ♌58'54	25°47'53			9174 Dec 02 16:37	0°  ♌	
	9174 Jan 21 15:51	0°  ♌		desc. node		9174 Dec 04 17:53	3°  ♌33'00	
retrograde	9174 Jan 30 17:37	4°  ♌06'14				9174 Dec 22 10:03	0°  ♌	
evening set	9174 Feb 05 18:17	1°  ♌38'04		evening max el		9174 Dec 31 20:13	10°  ♌42'23	26°45'27

retrograde	9175 Jan 13 22:51	18°  01'02			9175 Dec 22 04:45	0° 	
evening set	9175 Jan 20 11:06	15°  26'34		retrograde	9175 Dec 27 22:01	1°  30'52	
min. Earth dist.	9175 Jan 24 12:17	11°  23'28	0.66030 AU		9176 Jan 02 05:06	30°  R 	
inferior conj	9175 Jan 26 10:34	9°  07'43	-0°19'33	evening set	9176 Jan 03 19:17	28°  Z56'27	
minimum elong	9175 Jan 26 11:07	9°  06'08	0°19'05	min. Earth dist.	9176 Jan 07 15:16	25°  Z26'23	0.64490 AU
asc. node	9175 Jan 27 10:01	7°  59'33		inferior conj	9176 Jan 10 01:12	22°  Z51'34	-1°24'59
morning rise	9175 Feb 01 12:10	3°  28'17		minimum elong	9176 Jan 10 03:49	22°  Z44'34	1°23'37
direct	9175 Feb 04 09:10	2°  42'35		asc. node	9176 Jan 14 07:09	18°  Z48'22	
morning max el	9175 Feb 10 20:22	6°  09'36	18°16'45	morning rise	9176 Jan 16 14:02	17°  Z26'01	
	9175 Feb 27 10:02	0°  H		direct	9176 Jan 19 02:49	16°  Z53'05	
morning set	9175 Mar 02 04:41	4°  H27'38		morning max el	9176 Jan 25 13:16	20°  Z14'52	17°53'31
desc. node	9175 Mar 02 17:34	5°  H19'21			9176 Feb 01 22:58	0° 	
				morning set	9176 Feb 11 17:28	16°  Z04'37	
superior conj	9175 Mar 17 14:43	28°  H55'28	-1°35'19	desc. node	9176 Feb 17 14:28	25°  Z52'48	
minimum elong	9175 Mar 17 05:09	28°  H17'58	1°34'19		9176 Feb 20 02:34	0° 	
	9175 Mar 18 07:12	0°  Y		superior conj	9176 Feb 25 06:33	8°  H22'16	-0°54'10
max. Earth dist.	9175 Mar 19 02:55	1°  Y17'11	1.45570 AU	minimum elong	9176 Feb 25 00:27	7°  H57'45	0°53'12
evening rise	9175 Apr 02 15:35	23°  Y59'02		max. Earth dist.	9176 Feb 29 22:26	15°  H47'05	1.45083 AU
	9175 Apr 06 11:56	0°  B			9176 Mar 10 01:22	0° 	
greatest brilliancy	9175 Apr 13 17:24	11°  B12'14	-0.8m	evening rise	9176 Mar 12 06:00	3°  Y22'29	
asc. node	9175 Apr 25 08:37	27°  B08'09		greatest brilliancy	9176 Mar 27 03:34	25°  Y49'13	-0.6m
evening max el	9175 Apr 25 23:28	27°  B46'44	19°10'25		9176 Mar 30 01:27	0° 	
	9175 Apr 28 12:32	0°  II		evening max el	9176 Apr 08 03:38	11°  B26'07	20°05'22
retrograde	9175 May 02 22:04	1°  II40'44		asc. node	9176 Apr 11 05:46	14°  B07'58	
evening set	9175 May 06 09:47	0°  II29'50		retrograde	9176 Apr 15 20:31	15°  B53'26	
	9175 May 07 02:00	30°  R 		evening set	9176 Apr 19 16:54	14°  B27'22	
inferior conj	9175 May 11 21:03	24°  B41'22	3°21'12	inferior conj	9176 Apr 25 00:52	8°  B25'03	3°14'46
minimum elong	9175 May 11 21:02	24°  B41'26	3°20'59	minimum elong	9176 Apr 24 23:47	8°  B28'45	3°14'31
min. Earth dist.	9175 May 13 08:43	22°  B46'31	0.66482 AU	min. Earth dist.	9176 Apr 25 22:05	7°  B13'10	0.67608 AU
morning rise	9175 May 17 07:51	18°  B22'09		morning rise	9176 Apr 30 06:24	2°  B07'11	
direct	9175 May 23 14:03	15°  B37'54			9176 May 03 13:27	30°  R 	
desc. node	9175 May 29 17:32	17°  B42'39		direct	9176 May 06 00:56	29°  Y32'41	
morning max el	9175 Jun 05 07:30	23°  B13'28	26°10'45		9176 May 08 16:05	0° 	
	9175 Jun 11 07:33	0°  II		desc. node	9176 May 15 14:31	4°  B31'14	
	9175 Jul 01 20:20	0°  E		morning max el	9176 May 17 17:07	6°  B32'47	24°49'02
morning set	9175 Jul 11 08:40	16°  E44'26			9176 Jun 04 21:55	0° 	
max. Earth dist.	9175 Jul 15 06:27	24°  E10'09	1.35091 AU	morning set	9176 Jun 22 15:37	28°  II44'25	
	9175 Jul 18 05:23	0°  O			9176 Jun 23 08:39	0° 	
superior conj	9175 Jul 20 12:13	4°  O37'14	-0°17'59	max. Earth dist.	9176 Jun 26 06:13	5°  E14'21	1.37101 AU
minimum elong	9175 Jul 20 13:16	4°  O42'36	0°18'01				
asc. node	9175 Jul 22 07:47	8°  O21'01		superior conj	9176 Jul 02 21:59	17°  E51'14	-0°50'13
evening rise	9175 Jul 28 05:18	20°  O36'16		minimum elong	9176 Jul 03 01:08	18°  E06'39	0°49'55
	9175 Aug 01 21:14	0°  M		asc. node	9176 Jul 08 04:47	28°  E21'05	
evening max el	9175 Aug 15 17:46	20°  M59'25	20°34'54		9176 Jul 09 00:27	0° 	
desc. node	9175 Aug 25 16:25	26°  M29'06		evening rise	9176 Jul 11 08:41	4°  O42'47	
retrograde	9175 Aug 26 23:16	26°  M33'20			9176 Jul 26 02:51	0° 	
evening set	9175 Aug 29 01:04	26°  M22'43		evening max el	9176 Jul 28 06:45	2°  M22'17	19°26'40
inferior conj	9175 Sep 07 05:15	22°  M25'45	-3°40'53	retrograde	9176 Aug 06 19:26	7°  M05'16	
minimum elong	9175 Sep 06 19:57	22°  M39'10	3°38'00	evening set	9176 Aug 08 15:39	6°  M55'26	
min. Earth dist.	9175 Sep 08 08:00	21°  M47'12	0.54755 AU	desc. node	9176 Aug 11 13:33	6°  M03'16	
morning rise	9175 Sep 15 14:33	18°  M24'24		inferior conj	9176 Aug 17 08:22	2°  M49'02	-1°46'53
direct	9175 Sep 19 17:50	17°  M47'44		minimum elong	9176 Aug 17 03:34	2°  M56'48	1°45'10
morning max el	9175 Oct 03 00:15	24°  M11'47	23°24'19	min. Earth dist.	9176 Aug 19 20:20	1°  M12'32	0.55650 AU
	9175 Oct 08 07:04	0°  E			9176 Aug 21 20:38	30°  R 	
asc. node	9175 Oct 18 07:43	15°  E25'14		morning rise	9176 Aug 25 12:53	28°  O15'45	
	9175 Oct 25 17:20	0°  M		direct	9176 Aug 30 11:32	27°  O20'30	
morning set	9175 Oct 26 12:23	1°  M40'37			9176 Sep 07 22:01	0° 	
				morning max el	9176 Sep 13 12:23	4°  M24'03	25°09'12
superior conj	9175 Nov 02 10:59	16°  M39'29	1°40'44		9176 Oct 01 17:51	0° 	
minimum elong	9175 Nov 02 10:48	16°  M38'28	1°40'55	asc. node	9176 Oct 04 04:40	4°  E36'46	
max. Earth dist.	9175 Nov 05 05:18	22°  M33'27	1.33340 AU	morning set	9176 Oct 10 00:04	16°  E28'24	
	9175 Nov 08 19:32	0°  A			9176 Oct 16 04:45	0° 	
evening rise	9175 Nov 10 03:07	2°  A38'37		superior conj	9176 Oct 16 20:31	1°  M26'46	1°36'47
desc. node	9175 Nov 21 14:57	23°  A40'05		minimum elong	9176 Oct 16 19:17	1°  M20'00	1°36'50
	9175 Nov 25 13:07	0°  Z		max. Earth dist.	9176 Oct 18 08:50	4°  M45'48	1.32286 AU
evening max el	9175 Dec 14 08:57	24°  Z09'34	27°21'15				

evening rise	9176 Oct 24 00:34	16° \mathbb{M} 48'15		superior conj	9177 Oct 01 08:00	16° \mathbb{L} 16'13	1°27'10
	9176 Oct 30 18:16	0° \mathbb{A}		minimum elong	9177 Oct 01 06:03	16° \mathbb{L} 05'25	1°27'00
desc. node	9176 Nov 07 12:02	13° \mathbb{A} 22'48		max. Earth dist.	9177 Oct 01 17:16	17° \mathbb{L} 07'42	1.31699 AU
	9176 Nov 19 05:33	0° \mathbb{B}			9177 Oct 07 14:42	0° \mathbb{M}	
evening max el	9176 Nov 25 19:21	7° \mathbb{B} 09'10	27°28'46	evening rise	9177 Oct 08 04:45	1° \mathbb{M} 14'26	
retrograde	9176 Dec 09 14:24	14° \mathbb{B} 26'40			9177 Oct 23 18:06	0° \mathbb{A}	
evening set	9176 Dec 16 15:58	12° \mathbb{B} 01'05		desc. node	9177 Oct 25 09:08	2° \mathbb{A} 30'17	
min. Earth dist.	9176 Dec 20 08:45	8° \mathbb{B} 59'43	0.62653 AU	evening max el	9177 Nov 08 00:57	19° \mathbb{A} 28'05	27°03'23
inferior conj	9176 Dec 23 05:07	6° \mathbb{B} 16'11	-2°35'44	retrograde	9177 Nov 21 22:40	26° \mathbb{A} 38'29	
minimum elong	9176 Dec 23 10:10	6° \mathbb{B} 04'06	2°33'31	evening set	9177 Nov 28 21:23	24° \mathbb{A} 32'03	
morning rise	9176 Dec 30 06:35	1° \mathbb{B} 07'23		min. Earth dist.	9177 Dec 02 15:38	21° \mathbb{A} 50'50	0.60607 AU
asc. node	9176 Dec 31 04:13	0° \mathbb{B} 52'17		inferior conj	9177 Dec 05 18:58	19° \mathbb{A} 12'23	-3°47'29
direct	9177 Jan 01 13:29	0° \mathbb{B} 43'22		minimum elong	9177 Dec 06 02:04	18° \mathbb{A} 57'23	3°44'58
morning max el	9177 Jan 08 06:35	4° \mathbb{B} 09'25	17°47'45	morning rise	9177 Dec 13 09:14	14° \mathbb{A} 23'22	
morning set	9177 Jan 24 06:07	28° \mathbb{B} 50'01		direct	9177 Dec 15 13:29	14° \mathbb{A} 04'39	
	9177 Jan 24 22:00	0° \mathbb{A}		asc. node	9177 Dec 18 01:15	14° \mathbb{A} 30'13	
desc. node	9177 Feb 03 11:23	16° \mathbb{A} 33'16		morning max el	9177 Dec 22 20:55	17° \mathbb{A} 43'44	18°00'38
					9177 Dec 31 15:06	0° \mathbb{B}	
superior conj	9177 Feb 04 21:25	18° \mathbb{A} 56'21	-0°10'31	morning set	9178 Jan 07 12:10	12° \mathbb{B} 24'13	
minimum elong	9177 Feb 04 20:23	18° \mathbb{A} 52'01	0°10'10		9178 Jan 17 03:57	0° \mathbb{A}	
behind sun begin	9177 Feb 04 13:18	18° \mathbb{A} 22'20					
behind sun end	9177 Feb 05 03:28	19° \mathbb{A} 21'40		superior conj	9178 Jan 17 13:24	0° \mathbb{A} 41'45	0°28'14
max. Earth dist.	9177 Feb 11 15:07	29° \mathbb{A} 59'46	1.43914 AU	minimum elong	9178 Jan 17 15:37	0° \mathbb{A} 51'33	0°28'08
	9177 Feb 11 15:10	0° \mathbb{H}		desc. node	9178 Jan 21 08:18	7° \mathbb{A} 16'57	
evening rise	9177 Feb 19 18:20	12° \mathbb{H} 49'05		max. Earth dist.	9178 Jan 25 03:43	13° \mathbb{A} 42'41	1.42195 AU
	9177 Mar 03 03:33	0° \mathbb{Y}		evening rise	9178 Jan 30 19:09	22° \mathbb{A} 53'43	
evening max el	9177 Mar 22 02:16	25° \mathbb{Y} 06'59	21°13'24		9178 Feb 04 07:46	0° \mathbb{H}	
asc. node	9177 Mar 29 02:54	0° \mathbb{B} 00'10			9178 Feb 25 06:05	0° \mathbb{Y}	
	9177 Mar 29 02:40	0° \mathbb{B}		evening max el	9178 Mar 04 20:06	8° \mathbb{Y} 50'00	22°30'21
retrograde	9177 Mar 30 18:58	0° \mathbb{B} 14'11		retrograde	9178 Mar 14 15:40	14° \mathbb{Y} 38'44	
	9177 Apr 01 09:47	30° \mathbb{R} \mathbb{Y}		asc. node	9178 Mar 16 00:02	14° \mathbb{Y} 29'41	
evening set	9177 Apr 04 01:09	28° \mathbb{Y} 32'53		evening set	9178 Mar 19 08:52	12° \mathbb{Y} 42'21	
inferior conj	9177 Apr 09 08:13	22° \mathbb{Y} 19'01	2°57'12	inferior conj	9178 Mar 24 17:02	6° \mathbb{Y} 19'43	2°29'51
minimum elong	9177 Apr 09 06:23	22° \mathbb{Y} 25'24	2°56'47	minimum elong	9178 Mar 24 14:49	6° \mathbb{Y} 27'23	2°29'15
min. Earth dist.	9177 Apr 09 16:06	21° \mathbb{Y} 51'38	0.68283 AU	min. Earth dist.	9178 Mar 24 12:29	6° \mathbb{Y} 35'31	0.68516 AU
morning rise	9177 Apr 14 11:24	16° \mathbb{Y} 04'32		morning rise	9178 Mar 29 20:38	0° \mathbb{Y} 10'11	
direct	9177 Apr 19 16:39	13° \mathbb{Y} 46'59			9178 Mar 30 01:33	30° \mathbb{R} \mathbb{H}	
morning max el	9177 Apr 30 02:35	19° \mathbb{Y} 58'52	23°19'32	direct	9178 Apr 03 12:06	28° \mathbb{H} 13'41	
desc. node	9177 May 02 11:28	22° \mathbb{Y} 30'25			9178 Apr 08 10:26	0° \mathbb{Y}	
	9177 May 08 15:00	0° \mathbb{B}		morning max el	9178 Apr 12 15:06	3° \mathbb{Y} 33'15	21°51'47
	9177 May 29 02:27	0° \mathbb{H}		desc. node	9178 Apr 19 08:23	11° \mathbb{Y} 20'40	
morning set	9177 Jun 03 23:59	9° \mathbb{H} 39'52			9178 May 02 16:20	0° \mathbb{B}	
max. Earth dist.	9177 Jun 08 02:13	16° \mathbb{H} 39'25	1.39350 AU	morning set	9178 May 15 05:29	19° \mathbb{B} 20'55	
				max. Earth dist.	9178 May 21 01:58	28° \mathbb{B} 54'16	1.41568 AU
					9178 May 21 17:44	0° \mathbb{H}	
superior conj	9177 Jun 15 17:34	0° \mathbb{B} 23'13	-1°22'09				
minimum elong	9177 Jun 15 22:47	0° \mathbb{B} 47'22	1°21'41	superior conj	9178 May 28 18:30	12° \mathbb{H} 03'04	-1°50'03
	9177 Jun 15 12:34	0° \mathbb{B}		minimum elong	9178 May 29 00:33	12° \mathbb{H} 29'38	1°49'43
evening rise	9177 Jun 25 04:12	18° \mathbb{B} 23'36			9178 Jun 07 16:39	0° \mathbb{B}	
asc. node	9177 Jun 25 01:47	18° \mathbb{B} 11'56		evening rise	9178 Jun 08 12:10	1° \mathbb{B} 30'05	
	9177 Jul 01 08:10	0° \mathbb{Q}		asc. node	9178 Jun 11 22:48	7° \mathbb{B} 49'26	
evening max el	9177 Jul 11 07:28	14° \mathbb{Q} 28'52	18°39'17	evening max el	9178 Jun 24 16:07	27° \mathbb{B} 11'12	18°12'21
retrograde	9177 Jul 19 08:33	18° \mathbb{Q} 29'08			9178 Jun 28 12:32	0° \mathbb{Q}	
evening set	9177 Jul 21 09:23	18° \mathbb{Q} 14'40		retrograde	9178 Jul 01 16:48	0° \mathbb{Q} 44'06	
inferior conj	9177 Jul 29 07:10	13° \mathbb{Q} 50'01	0°02'40	evening set	9178 Jul 04 01:06	0° \mathbb{Q} 21'01	
minimum elong	9177 Jul 29 07:15	13° \mathbb{Q} 49'51	0°02'25		9178 Jul 04 23:14	30° \mathbb{R} \mathbb{B}	
transit middle	9177 Jul 29 07:15	13° \mathbb{Q} 49'51	0°02'25	inferior conj	9178 Jul 11 03:41	25° \mathbb{B} 35'28	1°28'46
transit begin	9177 Jul 29 03:39	13° \mathbb{Q} 56'37		minimum elong	9178 Jul 11 06:16	25° \mathbb{B} 29'47	1°27'40
transit end	9177 Jul 29 10:52	13° \mathbb{Q} 43'03		min. Earth dist.	9178 Jul 14 12:22	22° \mathbb{B} 39'24	0.59466 AU
desc. node	9177 Jul 29 10:41	13° \mathbb{Q} 43'23		desc. node	9178 Jul 16 07:47	21° \mathbb{B} 13'59	
min. Earth dist.	9177 Aug 01 13:11	11° \mathbb{Q} 24'16	0.57327 AU	morning rise	9178 Jul 18 08:20	19° \mathbb{B} 53'41	
morning rise	9177 Aug 06 01:37	8° \mathbb{Q} 39'38		direct	9178 Jul 24 17:24	18° \mathbb{B} 00'43	
direct	9177 Aug 11 19:50	7° \mathbb{Q} 17'17		morning max el	9178 Aug 08 01:59	25° \mathbb{B} 51'08	27°35'54
morning max el	9177 Aug 26 03:50	14° \mathbb{Q} 49'21	26°37'50		9178 Aug 11 22:49	0° \mathbb{Q}	
	9177 Sep 07 08:33	0° \mathbb{H}			9178 Aug 31 19:30	0° \mathbb{H}	
asc. node	9177 Sep 21 01:35	24° \mathbb{H} 09'59		asc. node	9178 Sep 07 22:29	13° \mathbb{H} 58'48	
	9177 Sep 23 21:18	0° \mathbb{L}		morning set	9178 Sep 08 17:12	15° \mathbb{H} 36'26	
morning set	9177 Sep 24 10:14	1° \mathbb{L} 08'28					

max. Earth dist.	9178 Sep 15 03:10	29° \mathbb{M} 31'05	1.31584 AU		9179 Aug 23 21:37	0° \mathbb{M}	
	9178 Sep 15 08:23	0° \mathbb{L}		asc. node	9179 Aug 25 19:24	3° \mathbb{M} 57'50	
				max. Earth dist.	9179 Aug 29 10:42	11° \mathbb{M} 45'16	1.31937 AU
superior conj	9178 Sep 15 19:38	1° \mathbb{L} 02'24	1°12'16				
minimum elong	9178 Sep 15 17:23	0° \mathbb{L} 49'57	1°11'55	superior conj	9179 Aug 31 05:37	15° \mathbb{M} 39'55	0°52'26
evening rise	9178 Sep 22 13:23	15° \mathbb{L} 50'45		minimum elong	9179 Aug 31 03:34	15° \mathbb{M} 28'39	0°51'59
	9178 Sep 29 12:58	0° \mathbb{M}			9179 Sep 06 18:38	0° \mathbb{L}	
desc. node	9178 Oct 12 06:15	20° \mathbb{M} 48'47		evening rise	9179 Sep 07 00:26	0° \mathbb{L} 31'13	
	9178 Oct 19 23:55	0° \mathbb{X}			9179 Sep 23 01:07	0° \mathbb{M}	
evening max el	9178 Oct 20 23:09	0° \mathbb{X} 56'31	26°04'16	desc. node	9179 Sep 29 03:23	7° \mathbb{M} 59'36	
retrograde	9178 Nov 03 21:06	7° \mathbb{X} 59'55		evening max el	9179 Oct 02 13:21	11° \mathbb{M} 35'58	24°37'56
evening set	9178 Nov 10 06:51	6° \mathbb{X} 22'12		retrograde	9179 Oct 16 08:21	18° \mathbb{M} 31'51	
min. Earth dist.	9178 Nov 14 12:02	3° \mathbb{X} 47'22	0.58515 AU	evening set	9179 Oct 21 16:16	17° \mathbb{M} 28'32	
inferior conj	9178 Nov 17 15:12	1° \mathbb{X} 30'09	-4°51'40	min. Earth dist.	9179 Oct 27 00:25	14° \mathbb{M} 41'30	0.56620 AU
minimum elong	9178 Nov 17 22:30	1° \mathbb{X} 16'46	4°49'52	inferior conj	9179 Oct 29 15:16	13° \mathbb{M} 01'25	-5°33'22
	9178 Nov 19 17:42	30° \mathbb{R} \mathbb{M}		minimum elong	9179 Oct 29 18:47	12° \mathbb{M} 55'49	5°32'54
morning rise	9178 Nov 25 16:29	27° \mathbb{M} 03'39		morning rise	9179 Nov 06 23:29	8° \mathbb{M} 57'19	
direct	9178 Nov 27 22:29	26° \mathbb{M} 46'55		direct	9179 Nov 09 12:37	8° \mathbb{M} 39'34	
asc. node	9178 Dec 04 22:17	29° \mathbb{M} 39'42		morning max el	9179 Nov 19 02:14	13° \mathbb{M} 12'01	19°29'00
	9178 Dec 05 07:51	0° \mathbb{X}		asc. node	9179 Nov 21 19:16	16° \mathbb{M} 07'46	
morning max el	9178 Dec 06 04:40	0° \mathbb{X} 47'50	18°33'49		9179 Nov 30 16:44	0° \mathbb{X}	
morning set	9178 Dec 22 06:19	26° \mathbb{X} 31'25		morning set	9179 Dec 06 08:40	11° \mathbb{X} 00'21	
	9178 Dec 24 01:26	0° \mathbb{Z}					
superior conj	9178 Dec 31 02:50	13° \mathbb{Z} 27'52	0°58'46	superior conj	9179 Dec 14 08:44	27° \mathbb{X} 00'46	1°20'33
minimum elong	9178 Dec 31 06:07	13° \mathbb{Z} 43'06	0°58'36	minimum elong	9179 Dec 14 11:37	27° \mathbb{X} 14'52	1°20'31
max. Earth dist.	9179 Jan 07 12:02	26° \mathbb{Z} 45'53	1.40118 AU		9179 Dec 15 21:34	0° \mathbb{Z}	
desc. node	9179 Jan 08 05:13	28° \mathbb{Z} 00'17		max. Earth dist.	9179 Dec 20 17:59	9° \mathbb{Z} 08'40	1.37927 AU
	9179 Jan 09 09:06	0° \mathbb{A}		evening rise	9179 Dec 24 11:17	15° \mathbb{Z} 50'08	
evening rise	9179 Jan 11 16:24	3° \mathbb{A} 53'25		desc. node	9179 Dec 26 02:12	18° \mathbb{Z} 39'50	
	9179 Jan 28 13:02	0° \mathbb{H}			9180 Jan 01 21:41	0° \mathbb{A}	
evening max el	9179 Feb 15 10:41	22° \mathbb{H} 35'38	23°50'36	evening max el	9180 Jan 23 03:41	0° \mathbb{H}	
retrograde	9179 Feb 26 09:18	29° \mathbb{H} 02'12			9180 Jan 28 23:55	6° \mathbb{H} 23'49	25°07'40
asc. node	9179 Mar 02 21:10	27° \mathbb{H} 25'54		retrograde	9180 Feb 09 22:56	13° \mathbb{H} 19'58	
evening set	9179 Mar 03 14:31	26° \mathbb{H} 51'34		evening set	9180 Feb 15 16:35	10° \mathbb{H} 57'01	
min. Earth dist.	9179 Mar 08 08:59	21° \mathbb{H} 19'30	0.68327 AU	asc. node	9180 Feb 17 18:17	8° \mathbb{H} 54'18	
inferior conj	9179 Mar 09 01:23	20° \mathbb{H} 23'39	1°53'25	min. Earth dist.	9180 Feb 20 03:30	5° \mathbb{H} 59'38	0.67735 AU
minimum elong	9179 Mar 08 23:16	20° \mathbb{H} 30'53	1°52'47	inferior conj	9180 Feb 21 07:31	4° \mathbb{H} 28'09	1°08'21
morning rise	9179 Mar 14 08:01	14° \mathbb{H} 20'20		minimum elong	9180 Feb 21 05:58	4° \mathbb{H} 33'13	1°07'53
direct	9179 Mar 18 10:01	12° \mathbb{H} 46'13			9180 Feb 25 01:49	30° \mathbb{R} \mathbb{A}	
morning max el	9179 Mar 26 10:03	17° \mathbb{H} 19'09	20°32'54	morning rise	9180 Feb 26 19:40	28° \mathbb{A} 32'33	
	9179 Apr 05 15:38	0° \mathbb{Y}		direct	9180 Mar 01 09:10	27° \mathbb{A} 19'36	
desc. node	9179 Apr 06 05:15	0° \mathbb{Y} 47'35			9180 Mar 07 03:22	0° \mathbb{H}	
morning set	9179 Apr 24 10:54	27° \mathbb{Y} 58'15		morning max el	9180 Mar 08 13:01	1° \mathbb{H} 17'27	19°27'28
	9179 Apr 25 18:13	0° \mathbb{B}		greatest brilliancy	9180 Mar 21 07:15	18° \mathbb{H} 01'57	-0.7m
max. Earth dist.	9179 May 03 08:55	12° \mathbb{B} 03'42	1.43468 AU	desc. node	9180 Mar 23 02:08	20° \mathbb{H} 41'39	
					9180 Mar 29 05:25	0° \mathbb{Y}	
superior conj	9179 May 09 20:14	22° \mathbb{B} 40'04	-2°08'32	morning set	9180 Apr 02 09:27	6° \mathbb{Y} 24'08	
minimum elong	9179 May 10 00:01	22° \mathbb{B} 55'49	2°08'36	max. Earth dist.	9180 Apr 14 22:20	25° \mathbb{Y} 56'18	1.44831 AU
	9179 May 14 04:36	0° \mathbb{I}			9180 Apr 17 11:49	0° \mathbb{B}	
evening rise	9179 May 22 04:04	13° \mathbb{I} 50'43		superior conj	9180 Apr 18 21:38	2° \mathbb{B} 14'47	-2°11'14
asc. node	9179 May 29 19:50	27° \mathbb{I} 07'30		minimum elong	9180 Apr 18 19:04	2° \mathbb{B} 04'33	2°11'19
	9179 May 31 13:48	0° \mathbb{E}		evening rise	9180 May 02 23:16	25° \mathbb{B} 16'05	
evening max el	9179 Jun 08 04:47	10° \mathbb{E} 18'32	18°05'01		9180 May 05 19:12	0° \mathbb{I}	
retrograde	9179 Jun 14 16:39	13° \mathbb{E} 39'52		asc. node	9180 May 15 16:53	15° \mathbb{I} 59'31	
evening set	9179 Jun 17 08:33	13° \mathbb{E} 05'24		evening max el	9180 May 21 18:12	23° \mathbb{I} 42'32	18°16'27
inferior conj	9179 Jun 23 19:09	8° \mathbb{E} 00'06	2°27'45	retrograde	9180 May 28 03:26	27° \mathbb{I} 06'34	
minimum elong	9179 Jun 23 22:00	7° \mathbb{E} 52'52	2°26'45	evening set	9180 May 31 02:47	26° \mathbb{I} 18'53	
min. Earth dist.	9179 Jun 26 19:59	4° \mathbb{E} 57'03	0.61724 AU	inferior conj	9180 Jun 06 01:26	20° \mathbb{I} 55'43	3°02'55
morning rise	9179 Jun 30 09:18	1° \mathbb{E} 57'02		minimum elong	9180 Jun 06 03:24	20° \mathbb{I} 50'08	3°02'20
desc. node	9179 Jul 03 04:52	0° \mathbb{E} 23'25		min. Earth dist.	9180 Jun 08 13:02	18° \mathbb{I} 07'19	0.63839 AU
	9179 Jul 04 07:53	30° \mathbb{R} \mathbb{I}		morning rise	9180 Jun 12 02:43	14° \mathbb{I} 41'12	
direct	9179 Jul 07 01:59	29° \mathbb{I} 36'38		direct	9180 Jun 18 19:52	12° \mathbb{I} 02'09	
	9179 Jul 09 22:23	0° \mathbb{E}		desc. node	9180 Jun 19 01:55	12° \mathbb{I} 02'22	
morning max el	9179 Jul 21 06:46	7° \mathbb{E} 37'39	27°56'19	morning max el	9180 Jul 02 15:53	20° \mathbb{I} 04'19	27°39'13
	9179 Aug 07 08:34	0° \mathbb{Q}			9180 Jul 11 03:48	0° \mathbb{E}	
morning set	9179 Aug 23 19:05	29° \mathbb{Q} 47'00			9180 Jul 30 09:32	0° \mathbb{Q}	

morning set	9180 Aug 06 13:28	13°♎33'28			9181 Jun 11 21:40	0°♐	
max. Earth dist.	9180 Aug 11 11:47	23°♎38'35	1.32775 AU	morning max el	9181 Jun 15 02:25	2°♐59'53	26°50'07
asc. node	9180 Aug 11 16:19	24°♎02'24			9181 Jul 05 10:50	0°♑	
	9180 Aug 14 11:29	0°♐		morning set	9181 Jul 20 21:24	26°♑47'41	
					9181 Jul 22 13:18	0°♒	
superior conj	9180 Aug 14 12:02	0°♐03'00	0°28'05	max. Earth dist.	9181 Jul 25 03:05	5°♒05'06	1.34107 AU
minimum elong	9180 Aug 14 10:44	29°♒55'58	0°27'39				
evening rise	9180 Aug 21 11:59	15°♐09'55		superior conj	9181 Jul 29 12:43	14°♒05'45	-0°00'14
	9180 Aug 28 20:36	0°♑		minimum elong	9181 Jul 29 12:44	14°♒05'51	0°00'27
evening max el	9180 Sep 13 00:20	21°♑47'32	22°58'38	behind sun begin	9181 Jul 29 07:01	13°♒36'03	
desc. node	9180 Sep 15 00:33	23°♑36'43		behind sun end	9181 Jul 29 18:27	14°♒35'42	
retrograde	9180 Sep 26 07:26	28°♑25'46		asc. node	9181 Jul 29 13:16	14°♒08'41	
evening set	9180 Sep 30 03:30	27°♑53'34		evening rise	9181 Aug 05 22:09	29°♒41'30	
min. Earth dist.	9180 Oct 07 09:02	24°♑36'03	0.55237 AU		9181 Aug 06 01:41	0°♐	
inferior conj	9180 Oct 08 20:07	23°♑45'27	-5°32'35		9181 Aug 23 17:01	0°♑	
minimum elong	9180 Oct 08 16:02	23°♑51'22	5°32'08	evening max el	9181 Aug 25 17:15	2°♑08'07	21°23'12
morning rise	9180 Oct 17 06:32	19°♑56'02		desc. node	9181 Sep 01 21:43	7°♑09'31	
direct	9180 Oct 20 07:51	19°♑34'10		retrograde	9181 Sep 06 20:39	8°♑09'22	
morning max el	9180 Oct 31 10:54	24°♑47'39	20°46'36	evening set	9181 Sep 09 09:08	7°♑54'46	
	9180 Nov 05 02:03	0°♒		inferior conj	9181 Sep 18 13:29	3°♑57'53	-4°35'55
asc. node	9180 Nov 07 16:15	3°♒38'03		minimum elong	9181 Sep 18 04:00	4°♑11'11	4°33'36
morning set	9180 Nov 19 16:15	25°♒41'42		min. Earth dist.	9181 Sep 18 17:24	3°♑52'22	0.54662 AU
	9180 Nov 21 18:00	0°♓		morning rise	9181 Sep 26 23:36	0°♑06'35	
					9181 Sep 27 10:14	30°♒♐	
superior conj	9180 Nov 27 02:27	11°♓06'16	1°34'05	direct	9181 Sep 30 16:52	29°♐36'39	
minimum elong	9180 Nov 27 04:15	11°♓15'26	1°34'14		9181 Oct 03 21:43	0°♑	
max. Earth dist.	9180 Dec 02 02:06	21°♓04'35	1.35876 AU	morning max el	9181 Oct 13 07:06	5°♑35'49	22°23'20
evening rise	9180 Dec 06 01:03	28°♓36'02		asc. node	9181 Oct 25 13:13	21°♑56'39	
	9180 Dec 06 19:14	0°♓			9181 Oct 29 22:57	0°♒	
desc. node	9180 Dec 11 23:12	9°♓10'44		morning set	9181 Nov 04 02:51	10°♒29'32	
	9180 Dec 25 04:17	0°♑					
evening max el	9181 Jan 10 13:05	20°♑10'19	26°14'34	superior conj	9181 Nov 11 04:26	25°♒34'11	1°40'14
retrograde	9181 Jan 23 07:37	27°♑24'41		minimum elong	9181 Nov 11 04:57	25°♒36'55	1°40'26
evening set	9181 Jan 29 13:21	24°♑53'02			9181 Nov 13 06:57	0°♓	
min. Earth dist.	9181 Feb 02 17:49	20°♑30'07	0.66753 AU	max. Earth dist.	9181 Nov 14 17:16	2°♓57'44	1.34151 AU
asc. node	9181 Feb 03 15:25	19°♑24'02		evening rise	9181 Nov 19 05:55	12°♓01'45	
inferior conj	9181 Feb 04 09:25	18°♑28'33	0°14'52	desc. node	9181 Nov 28 20:15	29°♓28'06	
minimum elong	9181 Feb 04 09:01	18°♑29'47	0°14'54		9181 Nov 29 03:49	0°♓	
transit middle	9181 Feb 04 09:01	18°♑29'47	0°14'54		9181 Dec 20 10:13	0°♑	
transit begin	9181 Feb 04 07:56	18°♑33'05		evening max el	9181 Dec 24 02:27	3°♑48'09	27°03'49
transit end	9181 Feb 04 10:05	18°♑26'28		retrograde	9182 Jan 06 10:29	11°♑09'06	
morning rise	9181 Feb 10 05:27	12°♑42'27		evening set	9182 Jan 13 02:47	8°♑34'00	
direct	9181 Feb 13 07:54	11°♑47'56		min. Earth dist.	9182 Jan 17 01:40	4°♑44'57	0.65410 AU
morning max el	9181 Feb 19 23:08	15°♑23'09	18°37'46	inferior conj	9182 Jan 19 04:53	2°♑20'06	-0°46'31
	9181 Mar 02 22:25	0°♒		minimum elong	9182 Jan 19 06:14	2°♑16'15	0°45'41
desc. node	9181 Mar 09 23:02	10°♒55'04			9182 Jan 21 08:10	30°♒♓	
morning set	9181 Mar 13 00:54	15°♒45'32		asc. node	9182 Jan 21 12:33	29°♓48'50	
	9181 Mar 22 02:37	0°♑		morning rise	9182 Jan 25 11:00	26°♓45'57	
max. Earth dist.	9181 Mar 28 15:58	10°♑15'35	1.45510 AU	direct	9182 Jan 28 04:13	26°♓06'10	
				morning max el	9182 Feb 03 14:16	29°♓30'03	18°04'43
superior conj	9181 Mar 29 05:46	11°♑09'35	-1°53'50		9182 Feb 04 02:06	0°♑	
minimum elong	9181 Mar 28 21:00	10°♑35'18	1°53'13	morning set	9182 Feb 21 21:19	26°♑34'17	
	9181 Apr 10 04:47	0°♒			9182 Feb 23 23:42	0°♒	
evening rise	9181 Apr 13 18:47	5°♒42'25		desc. node	9182 Feb 24 19:54	1°♒22'15	
greatest brilliancy	9181 Apr 21 19:54	18°♒32'06	-0.9m				
	9181 Apr 29 08:57	0°♐		superior conj	9182 Mar 08 13:20	20°♒09'54	-1°18'48
asc. node	9181 May 02 13:59	4°♐17'11		minimum elong	9182 Mar 08 04:40	19°♒35'42	1°17'43
evening max el	9181 May 05 05:37	7°♐16'41	18°45'53	max. Earth dist.	9182 Mar 11 11:40	24°♒46'34	1.45451 AU
retrograde	9181 May 11 21:05	10°♐56'19			9182 Mar 14 19:50	0°♑	
evening set	9181 May 15 04:06	9°♐54'13		evening rise	9182 Mar 24 17:03	15°♑20'38	
inferior conj	9181 May 20 18:36	4°♐14'46	3°18'59		9182 Apr 03 05:40	0°♒	
minimum elong	9181 May 20 19:17	4°♐12'36	3°18'42	greatest brilliancy	9182 Apr 06 18:19	5°♒19'19	-0.7m
min. Earth dist.	9181 May 22 15:06	1°♐57'09	0.65635 AU	evening max el	9182 Apr 18 12:55	20°♒55'25	19°32'04
	9181 May 24 07:27	30°♒♓		asc. node	9182 Apr 19 11:07	21°♒49'14	
morning rise	9181 May 26 09:48	27°♒55'58		retrograde	9182 Apr 25 18:25	25°♒02'09	
direct	9181 Jun 01 21:25	25°♒09'59		evening set	9182 Apr 29 09:44	23°♒44'52	
desc. node	9181 Jun 05 22:58	26°♒04'50		inferior conj	9182 May 04 19:18	17°♒50'33	3°19'56

minimum elong	9182 May 04 18:47	17° ♄ 52'14	3°19'43			9183 Apr 20 05:50	30° ♄	
min. Earth dist.	9182 May 06 00:45	16° ♄ 13'24	0.67020 AU	morning rise		9183 Apr 24 05:05	25° ♄ 22'38	
morning rise	9182 May 10 03:30	11° ♄ 31'46		direct		9183 Apr 29 18:09	22° ♄ 54'46	
direct	9182 May 16 05:11	8° ♄ 50'22		desc. node		9183 May 10 16:54	29° ♄ 22'47	
desc. node	9182 May 23 19:58	12° ♄ 01'20		morning max el		9183 May 10 21:39	29° ♄ 34'43	24°11'24
morning max el	9182 May 28 12:22	16° ♄ 12'19	25°37'32			9183 May 11 07:32	0° ♄	
	9182 Jun 08 22:02	0° ♄				9183 Jun 02 17:46	0° ♄	
	9182 Jun 28 08:41	0° ♄		morning set		9183 Jun 15 12:48	20° ♄ 51'57	
morning set	9182 Jul 03 14:48	9° ♄ 17'55		max. Earth dist.		9183 Jun 19 05:25	27° ♄ 22'04	1.38052 AU
max. Earth dist.	9182 Jul 07 07:44	16° ♄ 11'08	1.35908 AU			9183 Jun 20 16:26	0° ♄	
superior conj	9182 Jul 13 04:50	27° ♄ 39'50	-0°31'30	superior conj		9183 Jun 26 09:06	10° ♄ 37'20	-1°03'58
minimum elong	9182 Jul 13 06:45	27° ♄ 49'23	0°31'24	minimum elong		9183 Jun 26 13:11	10° ♄ 56'51	1°03'34
	9182 Jul 14 08:41	0° ♄		asc. node		9183 Jul 03 07:11	24° ♄ 08'35	
asc. node	9182 Jul 16 10:12	4° ♄ 11'49		evening rise		9183 Jul 05 05:08	27° ♄ 55'44	
evening rise	9182 Jul 21 04:41	13° ♄ 58'53				9183 Jul 06 06:22	0° ♄	
	9182 Jul 29 12:23	0° ♄		evening max el		9183 Jul 21 16:49	24° ♄ 46'23	19°03'49
evening max el	9182 Aug 07 22:31	13° ♄ 04'38	20°03'19	retrograde		9183 Jul 30 13:06	29° ♄ 09'42	
retrograde	9182 Aug 18 10:13	18° ♄ 15'59		evening set		9183 Aug 01 10:39	28° ♄ 58'23	
desc. node	9182 Aug 19 18:53	18° ♄ 11'05		desc. node		9183 Aug 06 16:02	26° ♄ 47'47	
evening set	9182 Aug 20 08:05	18° ♄ 06'25		inferior conj		9183 Aug 09 19:40	24° ♄ 44'23	-0°58'16
inferior conj	9182 Aug 29 08:55	14° ♄ 07'08	-2°53'52	minimum elong		9183 Aug 09 17:09	24° ♄ 48'43	0°57'27
minimum elong	9182 Aug 29 01:07	14° ♄ 18'49	2°51'11	min. Earth dist.		9183 Aug 12 17:08	22° ♄ 45'34	0.56293 AU
min. Earth dist.	9182 Aug 31 03:26	13° ♄ 03'31	0.55035 AU	morning rise		9183 Aug 17 20:35	19° ♄ 55'26	
morning rise	9182 Sep 06 16:49	9° ♄ 54'01		direct		9183 Aug 23 03:47	18° ♄ 49'46	
direct	9182 Sep 11 04:28	9° ♄ 10'20		morning max el		9183 Sep 06 08:39	26° ♄ 05'52	25°49'54
morning max el	9182 Sep 24 19:47	15° ♄ 51'53	24°09'45			9183 Sep 10 01:38	0° ♄	
	9182 Oct 06 02:02	0° ♄		asc. node		9183 Sep 29 07:03	0° ♄ 12'43	
asc. node	9182 Oct 12 10:09	10° ♄ 51'17				9183 Sep 29 04:28	0° ♄	
morning set	9182 Oct 19 14:36	25° ♄ 18'22		morning set		9183 Oct 04 01:50	10° ♄ 03'21	
	9182 Oct 21 18:57	0° ♄						
superior conj	9182 Oct 26 11:51	10° ♄ 15'52	1°39'46	superior conj		9183 Oct 10 22:25	25° ♄ 04'25	1°33'21
minimum elong	9182 Oct 26 11:11	10° ♄ 12'15	1°39'55	minimum elong		9183 Oct 10 20:50	24° ♄ 55'41	1°33'20
max. Earth dist.	9182 Oct 28 16:54	15° ♄ 02'44	1.32841 AU	max. Earth dist.		9183 Oct 11 23:05	27° ♄ 20'37	1.31984 AU
evening rise	9182 Nov 02 22:13	25° ♄ 57'26				9183 Oct 13 04:06	0° ♄	
	9182 Nov 04 22:52	0° ♄		evening rise		9183 Oct 17 22:50	10° ♄ 14'37	
desc. node	9182 Nov 15 17:20	19° ♄ 25'40		desc. node		9183 Oct 28 05:34	0° ♄	
	9182 Nov 22 13:31	0° ♄		evening max el		9183 Nov 18 23:21	29° ♄ 49'01	27°22'07
evening max el	9182 Dec 06 14:42	17° ♄ 05'43	27°28'20			9183 Nov 19 04:01	0° ♄	
retrograde	9182 Dec 20 06:38	24° ♄ 25'08		retrograde		9183 Dec 02 19:26	7° ♄ 03'13	
evening set	9182 Dec 27 06:26	21° ♄ 53'38		evening set		9183 Dec 09 21:05	4° ♄ 44'21	
min. Earth dist.	9182 Dec 31 00:53	18° ♄ 36'20	0.63739 AU	min. Earth dist.		9183 Dec 13 13:40	1° ♄ 53'12	0.61800 AU
inferior conj	9183 Jan 02 15:21	15° ♄ 56'43	-1°54'32			9183 Dec 15 15:51	30° ♄	
minimum elong	9183 Jan 02 18:59	15° ♄ 47'26	1°52'47	inferior conj		9183 Dec 16 13:41	29° ♄ 10'02	-3°06'27
asc. node	9183 Jan 08 09:39	11° ♄ 05'15		minimum elong		9183 Dec 16 19:43	28° ♄ 56'20	3°04'00
morning rise	9183 Jan 09 09:23	10° ♄ 37'37		morning rise		9183 Dec 23 20:40	24° ♄ 09'25	
direct	9183 Jan 11 19:26	10° ♄ 08'49		direct		9183 Dec 26 02:08	23° ♄ 47'59	
morning max el	9183 Jan 18 07:40	13° ♄ 31'12	17°48'52	asc. node		9183 Dec 26 06:43	23° ♄ 48'09	
	9183 Jan 29 18:28	0° ♄		morning max el		9184 Jan 02 00:09	27° ♄ 18'07	17°50'57
morning set	9183 Feb 03 21:06	8° ♄ 43'10				9184 Jan 04 09:52	0° ♄	
desc. node	9183 Feb 11 16:47	21° ♄ 59'00		morning set		9184 Jan 17 17:52	21° ♄ 51'19	
						9184 Jan 22 06:52	0° ♄	
superior conj	9183 Feb 16 14:01	0° ♄ 02'41	-0°35'23	superior conj		9184 Jan 28 15:48	11° ♄ 07'48	0°06'49
minimum elong	9183 Feb 16 10:09	29° ♄ 46'55	0°34'40	minimum elong		9184 Jan 28 16:26	11° ♄ 10'32	0°06'57
	9183 Feb 16 13:22	0° ♄		behind sun begin		9184 Jan 28 08:39	10° ♄ 37'12	
max. Earth dist.	9183 Feb 22 06:47	9° ♄ 12'59	1.44663 AU	behind sun end		9184 Jan 29 00:13	11° ♄ 43'48	
evening rise	9183 Mar 04 04:42	24° ♄ 41'03		desc. node		9184 Jan 29 13:40	12° ♄ 41'03	
	9183 Mar 07 16:14	0° ♄		max. Earth dist.		9184 Feb 04 22:15	23° ♄ 15'47	1.43235 AU
	9183 Mar 28 13:55	0° ♄				9184 Feb 09 02:48	0° ♄	
evening max el	9183 Apr 01 14:49	4° ♄ 35'57	20°32'57	evening rise		9184 Feb 11 20:49	4° ♄ 19'59	
asc. node	9183 Apr 06 08:16	8° ♄ 22'33				9184 Feb 29 01:33	0° ♄	
retrograde	9183 Apr 09 17:02	9° ♄ 19'11		evening max el		9184 Mar 14 11:09	18° ♄ 16'51	21°45'18
evening set	9183 Apr 13 17:34	7° ♄ 46'27		asc. node		9184 Mar 23 05:25	23° ♄ 41'13	
inferior conj	9183 Apr 19 00:53	1° ♄ 38'59	3°08'35	retrograde		9184 Mar 23 14:59	23° ♄ 42'01	
minimum elong	9183 Apr 18 23:26	1° ♄ 43'58	3°08'16	evening set		9184 Mar 28 01:47	21° ♄ 53'59	
min. Earth dist.	9183 Apr 19 16:14	0° ♄ 46'16	0.67952 AU					

inferior conj	9184 Apr 02 09:04	15° Υ 35'48	2°46'45		9185 Mar 17 11:33	30° \mathbb{R} \mathbb{H}	
minimum elong	9184 Apr 02 07:01	15° Υ 42'55	2°46'15	inferior conj	9185 Mar 17 17:55	29° \mathbb{H} 38'01	2°15'29
min. Earth dist.	9184 Apr 02 11:29	15° Υ 27'24	0.68432 AU	minimum elong	9185 Mar 17 15:41	29° \mathbb{H} 45'44	2°14'50
morning rise	9184 Apr 07 12:06	9° Υ 23'22		min. Earth dist.	9185 Mar 17 08:15	0° Υ 11'26	0.68482 AU
direct	9184 Apr 12 11:24	7° Υ 14'43		morning rise	9185 Mar 22 22:29	23° \mathbb{H} 30'48	
morning max el	9184 Apr 22 08:08	13° Υ 04'17	22°41'37	direct	9185 Mar 27 08:01	21° \mathbb{H} 43'57	
desc. node	9184 Apr 26 13:48	17° Υ 45'22		morning max el	9185 Apr 04 23:05	26° \mathbb{H} 43'07	21°16'46
	9184 May 05 21:59	0° \mathbb{B}			9185 Apr 07 23:39	0° Υ	
	9184 May 25 15:25	0° \mathbb{H}		desc. node	9185 Apr 13 10:41	6° Υ 52'20	
morning set	9184 May 26 10:04	1° \mathbb{H} 16'26			9185 Apr 29 10:25	0° \mathbb{B}	
max. Earth dist.	9184 May 31 02:33	9° \mathbb{H} 07'03	1.40312 AU	morning set	9185 May 06 04:12	10° \mathbb{B} 26'34	
				max. Earth dist.	9185 May 13 04:38	21° \mathbb{B} 43'02	1.42421 AU
					9185 May 18 04:04	0° \mathbb{H}	
superior conj	9184 Jun 07 21:18	22° \mathbb{H} 48'04	-1°34'45				
minimum elong	9184 Jun 08 03:07	23° \mathbb{H} 14'26	1°34'18	superior conj	9185 May 20 12:45	4° \mathbb{H} 01'25	-1°59'25
	9184 Jun 11 19:16	0° \mathbb{B}		minimum elong	9185 May 20 18:21	4° \mathbb{H} 25'25	1°59'16
evening rise	9184 Jun 17 20:14	11° \mathbb{B} 23'24		evening rise	9185 May 31 21:56	24° \mathbb{H} 11'15	
asc. node	9184 Jun 19 04:12	13° \mathbb{B} 54'32			9185 Jun 04 03:18	0° \mathbb{B}	
	9184 Jun 28 07:16	0° \mathbb{Q}		asc. node	9185 Jun 06 01:14	3° \mathbb{B} 24'23	
evening max el	9184 Jul 03 21:19	7° \mathbb{Q} 09'13	18°25'20	evening max el	9185 Jun 17 08:08	20° \mathbb{B} 03'17	18°06'59
retrograde	9184 Jul 11 10:50	10° \mathbb{Q} 56'22		retrograde	9185 Jun 24 02:08	23° \mathbb{B} 29'26	
evening set	9184 Jul 13 14:34	10° \mathbb{Q} 38'46		evening set	9185 Jun 26 13:38	23° \mathbb{B} 01'55	
inferior conj	9184 Jul 21 03:55	6° \mathbb{Q} 05'09	0°42'31	inferior conj	9185 Jul 03 08:58	18° \mathbb{B} 08'09	1°56'57
minimum elong	9184 Jul 21 05:23	6° \mathbb{Q} 02'10	0°41'44	minimum elong	9185 Jul 03 11:53	18° \mathbb{B} 01'20	1°55'49
desc. node	9184 Jul 23 13:07	4° \mathbb{Q} 09'35		min. Earth dist.	9185 Jul 06 15:26	15° \mathbb{B} 05'51	0.60422 AU
min. Earth dist.	9184 Jul 24 12:37	3° \mathbb{Q} 23'42	0.58196 AU	morning rise	9185 Jul 10 07:21	12° \mathbb{B} 15'52	
morning rise	9184 Jul 28 16:44	0° \mathbb{Q} 39'54		desc. node	9185 Jul 10 10:13	12° \mathbb{B} 11'21	
	9184 Jul 30 03:33	30° \mathbb{R} \mathbb{B}		direct	9185 Jul 16 20:39	10° \mathbb{B} 10'06	
direct	9184 Aug 03 17:45	29° \mathbb{B} 04'45		morning max el	9185 Jul 31 04:15	18° \mathbb{B} 07'00	27°49'19
	9184 Aug 08 10:42	0° \mathbb{Q}			9185 Aug 10 03:01	0° \mathbb{Q}	
morning max el	9184 Aug 18 03:06	6° \mathbb{Q} 46'14	27°06'54		9185 Aug 28 04:27	0° \mathbb{H}	
	9184 Sep 04 11:16	0° \mathbb{H}		morning set	9185 Sep 01 15:59	9° \mathbb{H} 01'18	
asc. node	9184 Sep 15 03:57	19° \mathbb{H} 53'41		asc. node	9185 Sep 02 00:51	9° \mathbb{H} 47'30	
morning set	9184 Sep 17 10:55	24° \mathbb{H} 39'46		max. Earth dist.	9185 Sep 07 17:51	22° \mathbb{H} 05'22	1.31670 AU
	9184 Sep 19 22:34	0° \mathbb{Q}					
superior conj	9184 Sep 24 10:13	9° \mathbb{Q} 53'51	1°21'28	superior conj	9185 Sep 08 21:24	24° \mathbb{H} 37'26	1°04'28
minimum elong	9184 Sep 24 08:06	9° \mathbb{Q} 42'03	1°21'14	minimum elong	9185 Sep 08 19:10	24° \mathbb{H} 25'08	1°04'03
max. Earth dist.	9184 Sep 24 08:40	9° \mathbb{Q} 45'11	1.31590 AU		9185 Sep 11 07:39	0° \mathbb{Q}	
evening rise	9184 Oct 01 05:13	24° \mathbb{Q} 46'20		evening rise	9185 Sep 15 15:06	9° \mathbb{Q} 25'12	
	9184 Oct 03 17:16	0° \mathbb{H}			9185 Sep 26 02:30	0° \mathbb{H}	
desc. node	9184 Oct 19 11:33	27° \mathbb{H} 44'02		desc. node	9185 Oct 06 08:42	15° \mathbb{H} 36'50	
	9184 Oct 21 01:44	0° \mathbb{H}		evening max el	9185 Oct 12 20:28	22° \mathbb{H} 53'36	25°30'14
evening max el	9184 Oct 31 01:52	11° \mathbb{H} 46'56	26°42'04	retrograde	9185 Oct 26 18:17	29° \mathbb{H} 54'43	
retrograde	9184 Nov 13 24:00	18° \mathbb{H} 55'02		evening set	9185 Nov 01 18:21	28° \mathbb{H} 31'32	
evening set	9184 Nov 20 18:42	16° \mathbb{H} 59'22		min. Earth dist.	9185 Nov 06 08:45	25° \mathbb{H} 53'34	0.57667 AU
min. Earth dist.	9184 Nov 24 15:50	14° \mathbb{H} 23'08	0.59710 AU	inferior conj	9185 Nov 09 08:20	23° \mathbb{H} 50'16	-5°13'15
inferior conj	9184 Nov 27 20:28	11° \mathbb{H} 51'17	-4°16'22	minimum elong	9185 Nov 09 14:36	23° \mathbb{H} 39'26	5°12'01
minimum elong	9184 Nov 28 04:00	11° \mathbb{H} 36'17	4°14'00	morning rise	9185 Nov 17 13:11	19° \mathbb{H} 33'30	
morning rise	9184 Dec 05 15:51	7° \mathbb{H} 12'01		direct	9185 Nov 19 21:18	19° \mathbb{H} 16'50	
direct	9184 Dec 07 20:09	6° \mathbb{H} 54'37		morning max el	9185 Nov 28 16:10	23° \mathbb{H} 30'25	18°54'27
asc. node	9184 Dec 12 03:43	8° \mathbb{H} 06'37		asc. node	9185 Nov 29 00:42	23° \mathbb{H} 51'21	
morning max el	9184 Dec 15 12:16	10° \mathbb{H} 41'43	18°12'12		9185 Dec 03 23:30	0° \mathbb{H}	
	9184 Dec 28 04:47	0° \mathbb{B}		morning set	9185 Dec 15 03:42	19° \mathbb{H} 58'40	
morning set	9184 Dec 31 05:38	5° \mathbb{B} 41'09			9185 Dec 20 06:02	0° \mathbb{B}	
superior conj	9185 Jan 09 17:35	23° \mathbb{B} 21'12	0°42'14	superior conj	9185 Dec 23 14:38	6° \mathbb{B} 28'49	1°09'03
minimum elong	9185 Jan 09 20:29	23° \mathbb{B} 34'18	0°42'05	minimum elong	9185 Dec 23 17:52	6° \mathbb{B} 44'12	1°08'55
	9185 Jan 13 11:18	0° \mathbb{B}		max. Earth dist.	9185 Dec 30 15:00	19° \mathbb{B} 24'24	1.39188 AU
desc. node	9185 Jan 15 10:36	3° \mathbb{B} 25'09		desc. node	9186 Jan 02 07:34	24° \mathbb{B} 07'26	
max. Earth dist.	9185 Jan 17 08:34	6° \mathbb{B} 41'09	1.41338 AU	evening rise	9186 Jan 03 12:29	26° \mathbb{B} 11'35	
evening rise	9185 Jan 22 05:48	14° \mathbb{B} 46'46			9186 Jan 05 18:37	0° \mathbb{B}	
	9185 Jan 31 23:23	0° \mathbb{H}			9186 Jan 25 14:29	0° \mathbb{H}	
	9185 Feb 23 05:26	0° Υ		evening max el	9186 Feb 07 17:04	15° \mathbb{H} 47'10	24°24'15
evening max el	9185 Feb 25 03:12	1° Υ 59'59	23°04'25	retrograde	9186 Feb 19 02:46	22° \mathbb{H} 27'46	
retrograde	9185 Mar 07 10:40	8° Υ 06'17		evening set	9186 Feb 24 13:08	20° \mathbb{H} 11'51	
asc. node	9185 Mar 10 02:33	7° Υ 31'26		asc. node	9186 Feb 24 23:41	19° \mathbb{H} 48'31	
evening set	9185 Mar 12 08:48	6° Υ 03'40		min. Earth dist.	9186 Mar 01 04:19	14° \mathbb{H} 54'15	0.68120 AU

inferior conj	9186 Mar 02 01:35	13° H 42'54	1°35'21	min. Earth dist.	9187 Feb 12 21:19	29° \approx 31'01	0.67366 AU
minimum elong	9186 Mar 01 23:38	13° H 49'26	1°34'46	inferior conj	9187 Feb 14 06:11	27° \approx 46'17	0°46'40
morning rise	9186 Mar 07 10:14	7° H 42'24		minimum elong	9187 Feb 14 05:03	27° \approx 49'54	0°46'23
direct	9186 Mar 11 06:47	6° H 17'24		morning rise	9187 Feb 19 21:23	21° \approx 54'23	
morning max el	9186 Mar 18 21:19	10° H 34'06	20°03'11	direct	9187 Feb 23 06:06	20° \approx 49'29	
desc. node	9186 Mar 31 07:35	26° H 31'56		morning max el	9187 Mar 02 03:27	24° \approx 35'53	19°04'18
	9186 Apr 02 16:36	0° Y			9187 Mar 06 18:55	0° H	
morning set	9186 Apr 15 03:45	18° Y 50'11		greatest brilliancy	9187 Mar 15 15:49	12° H 44'05	-0.7m
	9186 Apr 22 07:39	0° Z		desc. node	9187 Mar 18 04:27	16° H 34'59	
max. Earth dist.	9186 Apr 25 14:11	5° Z 11'22	1.44120 AU	morning set	9187 Mar 25 06:59	27° H 32'46	
					9187 Mar 26 20:58	0° Y	
superior conj	9186 May 01 04:01	14° Z 11'31	-2°11'58	max. Earth dist.	9187 Apr 08 06:12	19° Y 19'10	1.45213 AU
minimum elong	9186 May 01 05:31	14° Z 17'38	2°12'09				
	9186 May 10 15:18	0° II		superior conj	9187 Apr 10 20:32	23° Y 24'40	-2°06'22
evening rise	9186 May 14 05:34	6° II 09'13		minimum elong	9187 Apr 10 14:51	23° Y 02'17	2°06'12
asc. node	9186 May 23 22:19	22° II 32'31			9187 Apr 15 00:10	0° Z	
	9186 May 29 00:17	0° E		evening rise	9187 Apr 25 14:47	17° Z 09'02	
evening max el	9186 May 31 21:37	3° E 19'20	18°07'45		9187 May 03 11:39	0° II	
retrograde	9186 Jun 07 07:04	6° E 39'49		asc. node	9187 May 10 19:25	11° II 10'55	
evening set	9186 Jun 10 02:14	5° E 59'50		evening max el	9187 May 15 10:30	16° II 48'14	18°26'51
inferior conj	9186 Jun 16 07:16	0° E 46'56	2°45'14	retrograde	9187 May 21 21:12	20° II 17'08	
minimum elong	9186 Jun 16 09:50	0° E 40'05	2°44'26	evening set	9187 May 24 23:52	19° II 23'14	
	9186 Jun 17 00:48	30° R II		inferior conj	9187 May 30 18:35	13° II 52'48	3°11'46
min. Earth dist.	9186 Jun 19 02:58	27° II 47'44	0.62652 AU	minimum elong	9187 May 30 20:01	13° II 48'33	3°11'21
morning rise	9186 Jun 22 15:40	24° II 38'17		min. Earth dist.	9187 Jun 01 23:45	11° II 16'15	0.64651 AU
desc. node	9186 Jun 27 07:17	22° II 22'28		morning rise	9187 Jun 05 15:14	7° II 36'00	
direct	9186 Jun 29 09:36	22° II 08'25		direct	9187 Jun 12 06:41	4° II 52'50	
	9186 Jul 13 06:36	0° E		desc. node	9187 Jun 14 04:20	5° II 04'47	
morning max el	9186 Jul 13 10:58	0° E 10'53	27°53'24	morning max el	9187 Jun 25 20:55	12° II 50'39	27°21'52
	9186 Aug 04 04:30	0° O			9187 Jul 09 14:56	0° E	
morning set	9186 Aug 16 14:59	23° O 02'30			9187 Jul 27 18:30	0° O	
asc. node	9186 Aug 19 21:47	29° O 49'36		morning set	9187 Jul 31 05:18	6° O 35'43	
	9186 Aug 19 23:46	0° M		max. Earth dist.	9187 Aug 04 20:24	15° O 53'56	1.33284 AU
max. Earth dist.	9186 Aug 21 23:01	4° M 11'26	1.32234 AU	asc. node	9187 Aug 06 18:44	19° O 55'11	
superior conj	9186 Aug 24 06:09	9° M 09'53	0°42'40	superior conj	9187 Aug 08 10:24	23° O 24'43	0°16'32
minimum elong	9186 Aug 24 04:20	9° M 00'02	0°42'12	minimum elong	9187 Aug 08 09:35	23° O 20'22	0°16'10
evening rise	9186 Aug 31 02:37	24° M 05'56			9187 Aug 11 12:15	0° M	
	9186 Sep 02 21:54	0° L		evening rise	9187 Aug 15 13:48	8° M 42'12	
	9186 Sep 21 05:39	0° M			9187 Aug 26 16:03	0° L	
desc. node	9186 Sep 23 05:51	2° M 11'33		evening max el	9187 Sep 05 21:00	13° L 29'04	22°16'43
evening max el	9186 Sep 24 08:38	3° M 18'22	23°56'19	desc. node	9187 Sep 10 03:01	16° L 59'50	
retrograde	9186 Oct 08 00:02	10° M 07'47		retrograde	9187 Sep 18 17:53	19° L 53'45	
evening set	9186 Oct 12 17:18	9° M 19'02		evening set	9187 Sep 21 23:21	19° L 30'42	
min. Earth dist.	9186 Oct 18 19:10	6° M 20'58	0.55959 AU	min. Earth dist.	9187 Sep 30 02:55	15° L 56'07	0.54884 AU
inferior conj	9186 Oct 20 23:50	5° M 01'08	-5°39'20	inferior conj	9187 Sep 30 22:24	15° L 28'43	-5°15'26
minimum elong	9186 Oct 21 00:21	5° M 00'21	5°39'11	minimum elong	9187 Sep 30 15:17	15° L 38'44	5°14'16
morning rise	9186 Oct 29 09:25	1° M 04'18		morning rise	9187 Oct 09 08:54	11° L 41'21	
direct	9186 Nov 01 03:20	0° M 45'03		direct	9187 Oct 12 16:54	11° L 16'31	
morning max el	9186 Nov 11 08:21	5° M 34'11	19°59'12	morning max el	9187 Oct 24 11:19	16° L 48'35	21°25'48
asc. node	9186 Nov 15 21:41	10° M 47'35		asc. node	9187 Nov 02 18:40	28° L 40'12	
	9186 Nov 27 02:10	0° X			9187 Nov 03 14:20	0° M	
morning set	9186 Nov 29 08:35	4° X 33'51		morning set	9187 Nov 13 17:44	19° M 19'28	
					9187 Nov 18 19:26	0° X	
superior conj	9186 Dec 07 02:01	20° X 16'42	1°27'15	superior conj	9187 Nov 20 23:41	4° X 33'28	1°37'32
minimum elong	9186 Dec 07 04:30	20° X 29'02	1°27'17	minimum elong	9187 Nov 21 00:56	4° X 40'00	1°37'44
	9186 Dec 12 01:33	0° Z		max. Earth dist.	9187 Nov 25 08:37	13° X 28'54	1.35098 AU
max. Earth dist.	9186 Dec 12 21:29	1° Z 34'15	1.37035 AU	evening rise	9187 Nov 29 12:32	21° X 34'56	
evening rise	9186 Dec 16 15:51	8° Z 30'30			9187 Dec 04 02:28	0° Z	
desc. node	9186 Dec 20 04:34	14° Z 43'56		desc. node	9187 Dec 07 01:36	5° Z 10'16	
	9186 Dec 29 13:04	0° \approx			9187 Dec 23 09:13	0° \approx	
evening max el	9187 Jan 21 06:24	29° \approx 36'09	25°37'52	evening max el	9188 Jan 03 19:45	13° \approx 20'44	26°38'00
	9187 Jan 21 16:15	0° H		retrograde	9188 Jan 16 20:24	20° \approx 38'38	
retrograde	9187 Feb 02 14:15	6° H 40'40		evening set	9188 Jan 23 07:04	18° \approx 04'36	
evening set	9187 Feb 08 13:09	4° H 13'45		min. Earth dist.	9188 Jan 27 09:03	13° \approx 56'29	0.66232 AU
asc. node	9187 Feb 11 20:49	0° H 46'41		inferior conj	9188 Jan 29 05:39	11° \approx 44'06	-0°10'13
	9187 Feb 12 12:04	30° R \approx					

minimum elong	9188 Jan 29 05:55	11° \approx 43'18	0°09'52	evening max el	9188 Dec 16 08:36	26° \approx 50'51	27°17'32
transit middle	9188 Jan 29 05:55	11° \approx 43'18	0°09'52		9188 Dec 19 23:48	0° \approx	
transit begin	9188 Jan 29 03:37	11° \approx 50'09		retrograde	9188 Dec 29 20:37	4° \approx 12'36	
transit end	9188 Jan 29 08:13	11° \approx 36'27		evening set	9189 Jan 05 16:41	1° \approx 37'41	
asc. node	9188 Jan 29 17:56	11° \approx 07'43			9189 Jan 07 14:37	30° \approx 8'3	
morning rise	9188 Feb 04 05:44	6° \approx 02'58		min. Earth dist.	9189 Jan 09 13:21	28° \approx 02'48	0.64741 AU
direct	9188 Feb 07 04:05	5° \approx 15'07		inferior conj	9189 Jan 11 21:36	25° \approx 30'07	-1°14'38
morning max el	9188 Feb 13 16:06	8° \approx 43'50	18°21'40	minimum elong	9189 Jan 11 23:52	25° \approx 23'57	1°13'25
	9188 Feb 28 17:14	0° \approx		asc. node	9189 Jan 15 15:01	21° \approx 34'26	
morning set	9188 Mar 04 10:20	7° \approx 31'07		morning rise	9189 Jan 18 08:38	20° \approx 02'18	
desc. node	9188 Mar 04 01:21	6° \approx 55'17		direct	9189 Jan 20 22:28	19° \approx 27'46	
	9188 Mar 18 15:25	0° \approx		morning max el	9189 Jan 27 08:37	22° \approx 34'50	17°55'49
					9189 Feb 02 01:40	0° \approx	
superior conj	9188 Mar 20 02:00	2° \approx 15'26	-1°40'40	morning set	9189 Feb 13 18:58	18° \approx 55'54	
minimum elong	9188 Mar 19 16:24	1° \approx 37'53	1°39'46	desc. node	9189 Feb 18 22:13	27° \approx 27'06	
max. Earth dist.	9188 Mar 21 01:34	3° \approx 47'37	1.45583 AU		9189 Feb 20 11:26	0° \approx	
evening rise	9188 Apr 05 00:37	27° \approx 13'11					
	9188 Apr 06 19:05	0° \approx		superior conj	9189 Feb 27 15:11	11° \approx 34'12	-1°00'47
greatest brilliancy	9188 Apr 15 08:44	13° \approx 23'23	-0.8m	minimum elong	9189 Feb 27 08:19	11° \approx 06'46	0°59'46
asc. node	9188 Apr 26 16:32	29° \approx 10'33		max. Earth dist.	9189 Mar 03 20:56	18° \approx 17'24	1.45201 AU
	9188 Apr 27 10:49	0° \approx			9189 Mar 11 09:04	0° \approx	
evening max el	9188 Apr 27 20:18	0° \approx 24'22	19°03'27	evening rise	9189 Mar 15 16:36	6° \approx 39'14	
retrograde	9188 May 04 16:52	4° \approx 14'26		greatest brilliancy	9189 Mar 30 07:15	28° \approx 44'09	-0.6m
evening set	9188 May 08 03:18	3° \approx 05'51			9189 Mar 31 04:04	0° \approx	
	9188 May 11 11:11	30° \approx 8'8		evening max el	9189 Apr 11 01:18	14° \approx 03'56	19°56'16
inferior conj	9188 May 13 15:19	27° \approx 19'34	3°21'02	asc. node	9189 Apr 13 13:39	16° \approx 19'33	
minimum elong	9188 May 13 15:28	27° \approx 19'03	3°20'48	retrograde	9189 Apr 18 15:06	18° \approx 25'44	
min. Earth dist.	9188 May 15 05:13	25° \approx 18'35	0.66280 AU	evening set	9189 Apr 22 10:06	17° \approx 02'02	
morning rise	9188 May 19 03:09	21° \approx 00'15		inferior conj	9189 Apr 27 18:24	11° \approx 01'47	3°16'31
direct	9188 May 25 10:49	18° \approx 15'14		minimum elong	9189 Apr 27 17:28	11° \approx 04'59	3°16'15
desc. node	9188 May 31 01:21	19° \approx 59'17		min. Earth dist.	9189 Apr 28 17:46	9° \approx 43'09	0.67470 AU
morning max el	9188 Jun 07 07:35	25° \approx 55'14	26°21'34	morning rise	9189 May 03 00:31	4° \approx 43'31	
	9188 Jun 11 01:29	0° \approx		direct	9189 May 08 20:59	2° \approx 06'55	
	9188 Jul 02 04:09	0° \approx		desc. node	9189 May 17 22:19	6° \approx 35'21	
morning set	9188 Jul 13 07:34	19° \approx 32'16		morning max el	9189 May 20 17:16	9° \approx 13'22	25°01'53
max. Earth dist.	9188 Jul 17 07:15	27° \approx 10'27	1.34819 AU		9189 Jun 06 02:09	0° \approx	
	9188 Jul 18 17:37	0° \approx			9189 Jun 24 18:38	0° \approx	
				morning set	9189 Jun 25 17:25	1° \approx 41'00	
superior conj	9188 Jul 22 07:44	7° \approx 15'30	-0°13'14	max. Earth dist.	9189 Jun 29 08:03	8° \approx 14'16	1.36782 AU
minimum elong	9188 Jul 22 08:30	7° \approx 19'26	0°13'19				
behind sun begin	9188 Jul 22 05:09	7° \approx 02'14		superior conj	9189 Jul 05 19:17	20° \approx 35'23	-0°45'17
behind sun end	9188 Jul 22 11:51	7° \approx 36'38		minimum elong	9189 Jul 05 22:06	20° \approx 49'15	0°45'02
asc. node	9188 Jul 23 15:42	10° \approx 00'20		asc. node	9189 Jul 10 12:40	0° \approx 01'32	
evening rise	9188 Jul 29 22:41	23° \approx 08'12			9189 Jul 10 12:22	0° \approx	
	9188 Aug 02 07:24	0° \approx		evening rise	9189 Jul 14 02:59	7° \approx 17'58	
evening max el	9188 Aug 17 18:29	24° \approx 01'28	20°46'53		9189 Jul 26 19:32	0° \approx	
desc. node	9188 Aug 27 00:11	29° \approx 30'19		evening max el	9189 Jul 31 05:31	5° \approx 17'36	19°35'29
retrograde	9188 Aug 29 06:06	29° \approx 43'04		retrograde	9189 Aug 10 00:04	10° \approx 07'36	
evening set	9188 Aug 31 09:59	29° \approx 31'47		evening set	9189 Aug 11 20:17	9° \approx 58'03	
inferior conj	9188 Sep 09 14:42	25° \approx 13'17	-3°56'37	desc. node	9189 Aug 13 21:20	9° \approx 26'35	
minimum elong	9188 Sep 09 05:07	25° \approx 48'58	3°53'46	inferior conj	9189 Aug 20 15:26	5° \approx 53'59	-2°04'31
min. Earth dist.	9188 Sep 10 11:40	25° \approx 05'20	0.54692 AU	minimum elong	9189 Aug 20 09:48	6° \approx 02'53	2°02'30
morning rise	9188 Sep 18 00:16	21° \approx 37'09		min. Earth dist.	9189 Aug 22 23:26	4° \approx 25'42	0.55463 AU
direct	9188 Sep 22 00:45	21° \approx 02'31		morning rise	9189 Aug 28 20:58	1° \approx 26'09	
morning max el	9188 Oct 05 03:33	27° \approx 20'31	23°08'25	direct	9189 Sep 02 16:49	0° \approx 34'05	
	9188 Oct 07 18:12	0° \approx		morning max el	9189 Sep 16 15:33	7° \approx 32'30	24°54'12
asc. node	9188 Oct 19 15:37	17° \approx 15'21			9189 Oct 03 01:29	0° \approx	
	9188 Oct 26 05:33	0° \approx		asc. node	9189 Oct 06 12:33	6° \approx 22'27	
morning set	9188 Oct 28 05:02	4° \approx 08'40		morning set	9189 Oct 12 16:45	18° \approx 56'23	
					9189 Oct 17 18:39	0° \approx	
superior conj	9188 Nov 04 04:17	19° \approx 08'36	1°40'47				
minimum elong	9188 Nov 04 04:16	19° \approx 08'34	1°41'00	superior conj	9189 Oct 19 13:17	3° \approx 54'17	1°37'44
max. Earth dist.	9188 Nov 07 03:18	25° \approx 12'51	1.33532 AU	minimum elong	9189 Oct 19 12:12	3° \approx 48'19	1°37'50
	9188 Nov 09 08:11	0° \approx		max. Earth dist.	9189 Oct 21 05:47	7° \approx 13'52	1.32412 AU
evening rise	9188 Nov 11 22:38	5° \approx 14'30		evening rise	9189 Oct 26 18:48	19° \approx 12'02	
desc. node	9188 Nov 22 22:39	25° \approx 12'01			9189 Nov 01 04:37	0° \approx	
	9188 Nov 25 19:00	0° \approx		desc. node	9189 Nov 09 19:44	15° \approx 12'06	

	9189 Nov 20 00:41	0°♁		evening rise	9190 Oct 10 22:09	3°♎44'27	
evening max el	9189 Nov 28 19:33	9°♁55'26 27°29'44			9190 Oct 24 22:46	0°♎	
retrograde	9189 Dec 12 14:03	17°♁13'37		desc. node	9190 Oct 27 16:52	4°♎20'35	
evening set	9189 Dec 19 15:16	14°♁46'16		evening max el	9190 Nov 11 02:08	22°♎21'19 27°09'25	
min. Earth dist.	9189 Dec 23 08:24	11°♁40'53 0.62941 AU		retrograde	9190 Nov 24 23:26	29°♎32'28	
inferior conj	9189 Dec 26 03:18	8°♁57'59 -2°24'48		evening set	9190 Dec 01 23:13	27°♎22'37	
minimum elong	9189 Dec 26 07:58	8°♁46'34 2°22'42		min. Earth dist.	9190 Dec 05 16:51	24°♎39'12 0.60915 AU	
morning rise	9190 Jan 02 02:48	3°♁46'17		inferior conj	9190 Dec 08 19:28	21°♎59'08 -3°36'53	
asc. node	9190 Jan 02 12:06	3°♁38'40		minimum elong	9190 Dec 09 02:20	21°♎44'21 3°34'21	
direct	9190 Jan 04 10:23	3°♁21'11		morning rise	9190 Dec 16 07:52	17°♎06'57	
morning max el	9190 Jan 11 02:01	6°♁46'08 17°47'24		direct	9190 Dec 18 12:20	16°♎47'35	
	9190 Jan 26 07:22	0°♎		asc. node	9190 Dec 20 09:08	17°♎02'15	
morning set	9190 Jan 27 04:28	1°♎32'21		morning max el	9190 Dec 25 17:01	20°♎24'04 17°57'31	
desc. node	9190 Feb 05 19:04	18°♎06'28			9191 Jan 01 20:42	0°♁	
				morning set	9191 Jan 10 08:21	15°♁00'57	
superior conj	9190 Feb 08 02:10	21°♎57'00 -0°16'56			9191 Jan 18 14:23	0°♎	
minimum elong	9190 Feb 08 00:27	21°♎49'50 0°16'28		superior conj	9191 Jan 20 14:38	3°♎32'44 0°22'49	
	9190 Feb 13 00:01	0°♎		minimum elong	9191 Jan 20 16:31	3°♎40'58 0°22'47	
max. Earth dist.	9190 Feb 14 14:13	2°♎33'47 1.44128 AU		desc. node	9191 Jan 23 15:59	8°♎50'07	
evening rise	9190 Feb 23 04:11	16°♎02'47		max. Earth dist.	9191 Jan 28 03:50	16°♎23'30 1.42479 AU	
	9190 Mar 04 09:16	0°♎		evening rise	9191 Feb 03 02:31	26°♎00'49	
evening max el	9190 Mar 25 00:46	27°♎44'46 21°02'39			9191 Feb 05 15:23	0°♎	
	9190 Mar 27 11:25	0°♎			9191 Feb 26 05:40	0°♎	
asc. node	9190 Mar 31 10:46	2°♎23'02		evening max el	9191 Mar 07 19:16	11°♎27'45 22°18'29	
retrograde	9190 Apr 02 13:35	2°♎45'33		retrograde	9191 Mar 17 10:37	17°♎10'12	
evening set	9190 Apr 06 18:16	1°♎06'30		asc. node	9191 Mar 18 07:55	17°♎06'16	
	9190 Apr 07 23:41	30°♎♎		evening set	9191 Mar 22 02:10	15°♎15'54	
inferior conj	9190 Apr 12 01:21	24°♎54'20 3°00'32		inferior conj	9191 Mar 27 10:03	8°♎54'23 2°34'35	
minimum elong	9190 Apr 11 23:36	25°♎00'23 3°00'07		minimum elong	9191 Mar 27 07:53	9°♎01'58 2°34'01	
min. Earth dist.	9190 Apr 12 11:09	24°♎20'19 0.68212 AU		min. Earth dist.	9191 Mar 27 07:17	9°♎04'02 0.68512 AU	
morning rise	9190 Apr 17 04:42	18°♎39'21		morning rise	9191 Apr 01 13:26	2°♎44'09	
direct	9190 Apr 22 12:03	16°♎18'52		direct	9191 Apr 06 06:57	0°♎44'27	
morning max el	9190 May 03 02:30	22°♎38'10 23°32'57		morning max el	9191 Apr 15 14:23	6°♎11'23 22°04'26	
desc. node	9190 May 04 19:14	24°♎25'09		desc. node	9191 Apr 21 16:06	13°♎08'40	
	9190 May 09 13:09	0°♎			9191 May 03 21:32	0°♎	
	9190 May 30 10:04	0°♎		morning set	9191 May 18 14:59	22°♎38'58	
morning set	9190 Jun 07 05:26	12°♎46'49			9191 May 23 02:48	0°♎	
max. Earth dist.	9190 Jun 11 04:11	19°♎34'37 1.39015 AU		max. Earth dist.	9191 May 24 03:16	1°♎42'04 1.41255 AU	
	9190 Jun 16 23:21	0°♎					
superior conj	9190 Jun 18 17:14	3°♎14'28 -1°17'28		superior conj	9191 May 31 21:13	15°♎02'36 -1°46'16	
minimum elong	9190 Jun 18 22:11	3°♎37'33 1°17'00		minimum elong	9191 Jun 01 03:17	15°♎29'31 1°45'55	
asc. node	9190 Jun 27 09:39	19°♎54'15			9191 Jun 09 02:45	0°♎	
evening rise	9190 Jun 27 23:52	21°♎03'17		evening rise	9191 Jun 11 09:48	4°♎15'36	
	9190 Jul 02 16:14	0°♎		asc. node	9191 Jun 14 06:40	9°♎34'16	
evening max el	9190 Jul 14 04:43	17°♎18'14 18°44'57		evening max el	9191 Jun 27 12:24	29°♎55'43 18°15'04	
retrograde	9190 Jul 22 10:20	21°♎23'51			9191 Jun 27 14:09	0°♎	
evening set	9190 Jul 24 10:16	21°♎10'17		retrograde	9191 Jul 04 16:01	3°♎31'51	
desc. node	9190 Jul 31 18:28	17°♎18'38		evening set	9191 Jul 06 23:08	3°♎10'17	
inferior conj	9190 Aug 01 11:00	16°♎48'29 -0°12'36			9191 Jul 12 08:16	30°♎♎	
minimum elong	9190 Aug 01 10:29	16°♎49'26 0°12'38		inferior conj	9191 Jul 14 04:24	28°♎27'39 1°17'29	
transit middle	9190 Aug 01 10:29	16°♎49'26 0°12'38		minimum elong	9191 Jul 14 06:46	28°♎22'33 1°16'25	
transit begin	9190 Aug 01 08:12	16°♎53'38		min. Earth dist.	9191 Jul 17 13:24	25°♎34'43 0.59134 AU	
transit end	9190 Aug 01 12:46	16°♎45'14		desc. node	9191 Jul 18 15:34	24°♎43'04	
min. Earth dist.	9190 Aug 04 15:19	14°♎29'15 0.57047 AU		morning rise	9191 Jul 21 11:13	22°♎49'50	
morning rise	9190 Aug 09 07:16	11°♎43'39		direct	9191 Jul 27 18:23	21°♎01'32	
direct	9190 Aug 14 22:51	10°♎25'46		morning max el	9191 Aug 11 03:18	28°♎49'38 27°29'35	
morning max el	9190 Aug 29 06:06	17°♎53'44 26°26'18			9191 Aug 12 07:11	0°♎	
	9190 Sep 08 08:01	0°♎			9191 Sep 02 04:16	0°♎	
asc. node	9190 Sep 23 09:27	25°♎52'40		asc. node	9191 Sep 10 06:21	15°♎39'40	
	9190 Sep 25 09:50	0°♎		morning set	9191 Sep 11 10:48	18°♎08'01	
morning set	9190 Sep 27 03:13	3°♎37'39			9191 Sep 16 22:20	0°♎	
				max. Earth dist.	9191 Sep 17 23:46	2°♎20'55 1.31571 AU	
superior conj	9190 Oct 04 00:35	18°♎43'28 1°28'57		superior conj	9191 Sep 18 12:19	3°♎30'39 1°14'51	
minimum elong	9190 Oct 03 22:43	18°♎33'09 1°28'51		minimum elong	9191 Sep 18 10:06	3°♎18'17 1°14'31	
max. Earth dist.	9190 Oct 04 13:44	19°♎56'26 1.31758 AU		evening rise	9191 Sep 25 06:17	18°♎19'48	
	9190 Oct 09 03:57	0°♎					

	9191 Sep 30 23:04	0°♌			9192 Sep 07 07:43	0°♎	
desc. node	9191 Oct 14 14:01	22°♌47'52		evening rise	9192 Sep 08 17:08	3°♎00'35	
	9191 Oct 20 06:30	0°♏			9192 Sep 23 01:40	0°♌	
evening max el	9191 Oct 24 01:29	3°♏57'21	26°15'01	desc. node	9192 Sep 30 11:11	10°♌10'58	
retrograde	9191 Nov 06 23:26	11°♏01'53		evening max el	9192 Oct 04 16:42	14°♌43'35	24°52'01
evening set	9191 Nov 13 11:59	9°♏19'13		retrograde	9192 Oct 18 12:41	21°♌41'18	
min. Earth dist.	9191 Nov 17 14:34	6°♏44'42	0.58817 AU	evening set	9192 Oct 24 01:11	20°♌32'45	
inferior conj	9191 Nov 20 18:30	4°♏23'11	-4°43'04	min. Earth dist.	9192 Oct 29 04:02	17°♌48'40	0.56877 AU
minimum elong	9191 Nov 21 01:59	4°♏09'11	4°41'03	inferior conj	9192 Oct 31 21:41	16°♌02'03	-5°29'20
	9191 Nov 28 08:36	30°♌		minimum elong	9192 Nov 01 02:04	15°♌54'55	5°28'41
morning rise	9191 Nov 28 18:23	29°♌53'26		morning rise	9192 Nov 09 05:14	11°♌54'55	
direct	9191 Nov 30 23:50	29°♌36'36		direct	9192 Nov 11 16:47	11°♌37'36	
	9191 Dec 03 13:14	0°♏		morning max el	9192 Nov 21 01:24	16°♌04'50	19°19'21
asc. node	9191 Dec 07 06:09	1°♏58'41		asc. node	9192 Nov 23 03:09	18°♌16'06	
morning max el	9191 Dec 09 02:02	3°♏33'33	18°27'37		9192 Dec 01 00:34	0°♏	
morning set	9191 Dec 25 01:01	29°♏04'11		morning set	9192 Dec 08 02:20	13°♏30'23	
	9191 Dec 25 12:38	0°♐					
superior conj	9192 Jan 03 01:15	16°♐11'06	0°54'41	superior conj	9192 Dec 16 05:01	29°♏37'56	1°17'47
minimum elong	9192 Jan 03 04:29	16°♐26'00	0°54'30	minimum elong	9192 Dec 16 08:01	29°♏52'31	1°17'43
max. Earth dist.	9192 Jan 10 12:48	29°♐33'16	1.40436 AU	max. Earth dist.	9192 Dec 16 09:33	0°♐	
desc. node	9192 Jan 10 12:57	29°♐33'57		evening rise	9192 Dec 22 18:32	12°♐00'13	1.38250 AU
	9192 Jan 10 19:00	0°♑		desc. node	9192 Dec 26 12:20	18°♐40'30	
evening rise	9192 Jan 14 20:33	6°♑51'57			9192 Dec 27 09:58	20°♐14'30	
	9192 Jan 29 17:43	0°♒			9193 Jan 02 05:47	0°♑	
evening max el	9192 Feb 18 10:10	25°♒12'55	23°38'37	evening max el	9193 Jan 23 00:06	0°♒	
	9192 Feb 24 06:39	0°♓			9193 Jan 30 23:26	9°♒00'33	24°56'40
retrograde	9192 Feb 29 04:52	1°♓34'30		retrograde	9193 Feb 11 19:15	15°♒53'20	
asc. node	9192 Mar 04 05:03	0°♓17'10		evening set	9193 Feb 17 10:59	13°♒32'06	
	9192 Mar 04 14:57	30°♒		asc. node	9193 Feb 19 02:11	11°♒57'38	
evening set	9192 Mar 05 08:16	29°♒25'47		min. Earth dist.	9193 Feb 21 22:56	8°♒29'26	0.67846 AU
min. Earth dist.	9192 Mar 10 03:55	23°♒48'34	0.68383 AU	inferior conj	9193 Feb 23 01:13	7°♒02'55	1°15'44
inferior conj	9192 Mar 10 18:38	22°♒58'15	1°59'30	minimum elong	9193 Feb 22 23:33	7°♒08'25	1°15'15
minimum elong	9192 Mar 10 16:28	23°♒05'41	1°58'53	morning rise	9193 Feb 28 12:23	1°♒05'58	
morning rise	9192 Mar 16 00:40	16°♒53'59			9193 Mar 02 19:47	30°♒	
direct	9192 Mar 20 04:34	15°♒16'38		direct	9193 Mar 04 03:38	29°♑50'02	
morning max el	9192 Mar 28 08:20	19°♒56'00	20°43'52	morning max el	9193 Mar 05 12:15	0°♒	
	9192 Apr 05 16:54	0°♓		greatest brilliancy	9193 Mar 11 10:05	3°♒52'32	19°36'13
desc. node	9192 Apr 07 12:59	2°♓30'51		desc. node	9193 Mar 24 03:02	20°♒27'18	-0.7m
	9192 Apr 26 01:43	0°♈			9193 Mar 25 09:53	22°♒21'20	
morning set	9192 Apr 26 23:22	1°♈24'01		morning set	9193 Mar 30 11:54	0°♓	
max. Earth dist.	9192 May 05 09:03	14°♈43'38	1.43215 AU	max. Earth dist.	9193 Apr 05 21:22	9°♓47'03	
					9193 Apr 17 21:19	28°♓29'48	1.44666 AU
					9193 Apr 18 20:05	0°♈	
superior conj	9192 May 12 02:37	25°♈49'21	-2°06'36				
minimum elong	9192 May 12 07:01	26°♈07'49	2°06'38	superior conj	9193 Apr 22 07:30	5°♈32'58	-2°12'05
	9192 May 14 13:55	0°♉		minimum elong	9193 Apr 22 06:04	5°♈27'12	2°12'13
evening rise	9192 May 24 04:26	16°♉44'00		evening rise	9193 May 06 02:59	28°♈18'11	
asc. node	9192 May 31 03:44	28°♉55'59			9193 May 07 03:11	0°♉	
	9192 May 31 18:54	0°♊		asc. node	9193 May 18 00:49	17°♉52'43	
evening max el	9192 Jun 10 00:42	13°♊00'04	18°04'55	evening max el	9193 May 24 14:13	26°♉22'25	18°13'38
retrograde	9192 Jun 16 13:53	16°♊22'20		retrograde	9193 May 30 23:17	29°♉45'07	
evening set	9192 Jun 19 04:37	15°♊49'48		evening set	9193 Jun 02 21:29	28°♉59'33	
inferior conj	9192 Jun 25 17:21	10°♊47'24	2°20'23	inferior conj	9193 Jun 08 21:41	23°♉39'05	2°58'52
minimum elong	9192 Jun 25 20:15	10°♊40'10	2°19'22	minimum elong	9193 Jun 08 23:49	23°♉33'07	2°58'14
min. Earth dist.	9192 Jun 28 19:49	7°♊43'47	0.61386 AU	min. Earth dist.	9193 Jun 11 11:31	20°♉47'11	0.63539 AU
morning rise	9192 Jul 02 09:34	4°♊46'41		morning rise	9193 Jun 15 00:44	17°♉25'48	
desc. node	9192 Jul 04 12:38	3°♊33'04		desc. node	9193 Jun 21 09:42	14°♉49'04	
direct	9192 Jul 09 01:31	2°♊29'52		direct	9193 Jun 21 18:19	14°♉48'39	
morning max el	9192 Jul 23 07:22	10°♊30'24	27°55'46	morning max el	9193 Jul 05 15:56	22°♉51'35	27°43'58
	9192 Aug 07 12:12	0°♋			9193 Jul 11 23:27	0°♊	
	9192 Aug 24 09:44	0°♌			9193 Jul 31 18:33	0°♋	
morning set	9192 Aug 25 13:38	2°♌22'21		morning set	9193 Aug 09 09:18	16°♋13'02	
asc. node	9192 Aug 27 03:18	5°♌38'04		asc. node	9193 Aug 14 00:13	25°♋42'22	
max. Earth dist.	9192 Aug 31 07:56	14°♌37'50	1.31851 AU	max. Earth dist.	9193 Aug 14 10:05	26°♋34'24	1.32616 AU
					9193 Aug 16 00:43	0°♌	
superior conj	9192 Sep 01 22:43	18°♌10'32	0°55'47				
minimum elong	9192 Sep 01 20:36	17°♌58'54	0°55'19	superior conj	9193 Aug 17 05:48	2°♌36'23	0°32'05






























































































































minimum elong	9193 Aug 17 04:20	2° \mathbb{M} 28'30	0°31'37	max. Earth dist.	9194 Jul 28 02:55	8° \mathbb{O} 04'38	1.33881 AU
evening rise	9193 Aug 24 04:42	17° \mathbb{M} 40'01		asc. node	9194 Jul 31 21:10	15° \mathbb{O} 48'41	
	9193 Aug 30 05:27	0° \mathbb{L}					
evening max el	9193 Sep 16 03:42	24° \mathbb{L} 57'42	23°13'37	superior conj	9194 Aug 01 07:27	16° \mathbb{O} 42'29	0°04'18
desc. node	9193 Sep 17 08:21	26° \mathbb{L} 04'25		minimum elong	9194 Aug 01 07:14	16° \mathbb{O} 41'21	0°04'03
	9193 Sep 22 23:06	0° \mathbb{M}		behind sun begin	9194 Aug 01 01:44	16° \mathbb{O} 12'30	
retrograde	9193 Sep 29 13:33	1° \mathbb{M} 39'28		behind sun end	9194 Aug 01 12:45	17° \mathbb{O} 10'15	
evening set	9193 Oct 03 15:04	1° \mathbb{M} 03'26			9194 Aug 07 13:57	0° \mathbb{M}	
	9193 Oct 06 11:11	30° \mathbb{R} \mathbb{L}		evening rise	9194 Aug 08 15:09	2° \mathbb{M} 12'54	
min. Earth dist.	9193 Oct 10 13:08	27° \mathbb{L} 51'22	0.55401 AU		9194 Aug 24 05:58	0° \mathbb{L}	
inferior conj	9193 Oct 12 05:09	26° \mathbb{L} 53'00	-5°36'10	evening max el	9194 Aug 28 19:11	5° \mathbb{L} 14'35	21°36'36
minimum elong	9193 Oct 12 02:16	26° \mathbb{L} 57'14	5°35'54	desc. node	9194 Sep 04 05:29	9° \mathbb{L} 57'50	
morning rise	9193 Oct 20 15:26	23° \mathbb{L} 02'01		retrograde	9194 Sep 10 03:30	11° \mathbb{L} 22'11	
direct	9193 Oct 23 14:40	22° \mathbb{L} 40'57		evening set	9194 Sep 12 19:54	11° \mathbb{L} 05'51	
morning max el	9193 Nov 03 12:04	27° \mathbb{L} 48'08	20°33'35	inferior conj	9194 Sep 21 23:21	7° \mathbb{L} 08'10	-4°48'00
	9193 Nov 05 15:20	0° \mathbb{M}		minimum elong	9194 Sep 21 14:14	7° \mathbb{L} 20'54	4°45'57
asc. node	9193 Nov 10 00:08	5° \mathbb{M} 38'03		min. Earth dist.	9194 Sep 21 21:10	7° \mathbb{L} 11'13	0.54692 AU
morning set	9193 Nov 22 09:16	28° \mathbb{M} 10'18		morning rise	9194 Sep 30 09:36	3° \mathbb{L} 18'34	
	9193 Nov 23 06:33	0° \mathbb{X}		direct	9194 Oct 04 00:31	2° \mathbb{L} 50'01	
				morning max el	9194 Oct 16 09:45	8° \mathbb{L} 42'11	22°08'00
superior conj	9193 Nov 29 21:11	13° \mathbb{X} 39'11	1°32'31	asc. node	9194 Oct 27 21:05	23° \mathbb{L} 50'09	
minimum elong	9193 Nov 29 23:10	13° \mathbb{X} 49'15	1°32'38		9194 Oct 31 08:13	0° \mathbb{M}	
max. Earth dist.	9193 Dec 05 01:54	23° \mathbb{X} 58'24	1.36168 AU	morning set	9194 Nov 06 19:31	12° \mathbb{M} 57'39	
	9193 Dec 08 06:15	0° \mathbb{Z}					
evening rise	9193 Dec 08 23:30	1° \mathbb{Z} 19'48		superior conj	9194 Nov 13 22:05	28° \mathbb{M} 04'18	1°39'43
desc. node	9193 Dec 14 07:00	10° \mathbb{Z} 47'13		minimum elong	9194 Nov 13 22:48	28° \mathbb{M} 08'02	1°39'56
	9193 Dec 26 08:21	0° \mathbb{X}			9194 Nov 14 20:05	0° \mathbb{X}	
evening max el	9194 Jan 13 12:40	22° \mathbb{X} 48'09	26°05'37	max. Earth dist.	9194 Nov 17 16:02	5° \mathbb{X} 51'50	1.34385 AU
	9194 Jan 25 20:16	0° \mathbb{X}		evening rise	9194 Nov 22 02:20	14° \mathbb{X} 40'16	
retrograde	9194 Jan 26 04:44	0° \mathbb{X} 00'27			9194 Nov 30 12:15	0° \mathbb{Z}	
	9194 Jan 26 13:07	30° \mathbb{R} \mathbb{X}		desc. node	9194 Dec 01 04:02	1° \mathbb{Z} 07'16	
evening set	9194 Feb 01 08:39	27° \mathbb{X} 29'59			9194 Dec 21 02:03	0° \mathbb{X}	
min. Earth dist.	9194 Feb 05 14:05	23° \mathbb{X} 01'51	0.66920 AU	evening max el	9194 Dec 27 02:08	6° \mathbb{X} 28'21	26°57'56
asc. node	9194 Feb 05 23:18	22° \mathbb{X} 33'28		retrograde	9195 Jan 09 08:22	13° \mathbb{X} 48'32	
inferior conj	9194 Feb 07 03:54	21° \mathbb{X} 04'30	0°23'32	evening set	9195 Jan 15 23:17	11° \mathbb{X} 13'37	
minimum elong	9194 Feb 07 03:17	21° \mathbb{X} 06'24	0°23'28	min. Earth dist.	9195 Jan 19 23:00	7° \mathbb{X} 19'38	0.65633 AU
morning rise	9194 Feb 12 22:35	15° \mathbb{X} 16'44		inferior conj	9195 Jan 22 00:28	4° \mathbb{X} 57'53	-0°36'41
direct	9194 Feb 16 02:36	14° \mathbb{X} 19'36		minimum elong	9195 Jan 22 01:31	4° \mathbb{X} 54'51	0°36'00
morning max el	9194 Feb 22 19:12	17° \mathbb{X} 57'28	18°44'07	asc. node	9195 Jan 23 20:24	2° \mathbb{X} 55'15	
	9194 Mar 04 02:29	0° \mathbb{X}			9195 Jan 27 02:57	30° \mathbb{R} \mathbb{Z}	
desc. node	9194 Mar 12 06:46	12° \mathbb{X} 32'30		morning rise	9195 Jan 28 04:56	29° \mathbb{Z} 21'46	
morning set	9194 Mar 16 09:09	18° \mathbb{X} 57'18		direct	9195 Jan 30 23:27	28° \mathbb{Z} 39'58	
	9194 Mar 23 10:29	0° \mathbb{Y}			9195 Feb 03 21:31	0° \mathbb{X}	
max. Earth dist.	9194 Mar 31 14:35	12° \mathbb{Y} 46'49	1.45455 AU	morning max el	9195 Feb 06 09:44	2° \mathbb{X} 04'42	18°08'33
				morning set	9195 Feb 25 01:06	29° \mathbb{X} 33'05	
superior conj	9194 Apr 01 17:22	14° \mathbb{Y} 31'48	-1°57'46		9195 Feb 25 07:44	0° \mathbb{X}	
minimum elong	9194 Apr 01 09:14	13° \mathbb{Y} 59'54	1°57'17	desc. node	9195 Feb 27 03:38	2° \mathbb{X} 58'05	
	9194 Apr 11 12:38	0° \mathbb{B}					
evening rise	9194 Apr 17 02:05	8° \mathbb{B} 53'24		superior conj	9195 Mar 11 23:42	23° \mathbb{X} 27'44	-1°24'54
greatest brilliancy	9194 Apr 24 03:37	20° \mathbb{B} 13'54	-0.9m	minimum elong	9195 Mar 11 14:36	22° \mathbb{X} 51'53	1°23'50
	9194 Apr 30 10:15	0° \mathbb{I}		max. Earth dist.	9195 Mar 14 10:26	27° \mathbb{X} 18'16	1.45509 AU
asc. node	9194 May 04 21:55	6° \mathbb{I} 16'35			9195 Mar 16 03:45	0° \mathbb{Y}	
evening max el	9194 May 08 02:09	9° \mathbb{I} 55'59	18°40'23	evening rise	9195 Mar 28 03:02	18° \mathbb{Y} 37'34	
retrograde	9194 May 14 16:04	13° \mathbb{I} 32'18			9195 Apr 04 11:24	0° \mathbb{B}	
evening set	9194 May 17 21:57	12° \mathbb{I} 32'19		greatest brilliancy	9195 Apr 09 12:25	7° \mathbb{B} 41'19	-0.7m
inferior conj	9194 May 23 13:27	6° \mathbb{I} 55'16	3°17'34	evening max el	9195 Apr 21 10:09	23° \mathbb{B} 34'21	19°24'08
minimum elong	9194 May 23 14:20	6° \mathbb{I} 52'32	3°17'14	asc. node	9195 Apr 21 19:01	23° \mathbb{B} 56'26	
min. Earth dist.	9194 May 25 12:14	4° \mathbb{I} 32'21	0.65396 AU	retrograde	9195 Apr 28 13:02	27° \mathbb{B} 36'17	
morning rise	9194 May 29 05:59	0° \mathbb{I} 36'53		evening set	9195 May 02 03:05	26° \mathbb{B} 21'12	
	9194 May 30 00:17	30° \mathbb{R} \mathbb{B}		inferior conj	9195 May 07 13:11	20° \mathbb{B} 28'54	3°20'37
direct	9194 Jun 04 18:48	27° \mathbb{B} 51'12		minimum elong	9195 May 07 12:51	20° \mathbb{B} 30'00	3°20'23
desc. node	9194 Jun 08 06:42	28° \mathbb{B} 31'45		min. Earth dist.	9195 May 08 20:47	18° \mathbb{B} 45'31	0.66845 AU
	9194 Jun 11 05:20	0° \mathbb{I}		morning rise	9195 May 12 22:15	14° \mathbb{B} 09'58	
morning max el	9194 Jun 18 02:18	5° \mathbb{I} 43'26	26°59'07	direct	9195 May 19 01:36	11° \mathbb{B} 27'25	
	9194 Jul 06 16:02	0° \mathbb{G}		desc. node	9195 May 26 03:40	14° \mathbb{B} 13'03	
morning set	9194 Jul 23 18:57	29° \mathbb{G} 32'23		morning max el	9195 May 31 12:26	18° \mathbb{B} 54'13	25°49'27
	9194 Jul 24 00:42	0° \mathbb{O}			9195 Jun 09 21:46	0° \mathbb{I}	

	9195 Jun 29 17:24	0°☿		morning set	9196 Jun 17 16:02	23°♊53'25	
morning set	9195 Jul 06 14:48	12°☿09'53			9196 Jun 21 02:45	0°☿	
max. Earth dist.	9195 Jul 10 09:10	19°☿13'12	1.35617 AU	max. Earth dist.	9196 Jun 21 07:36	0°☿21'51	1.37717 AU
	9195 Jul 15 20:48	0°♌					
superior conj	9195 Jul 16 01:02	0°♌21'22	-0°26'39	superior conj	9196 Jun 28 07:18	13°☿24'54	-0°59'04
minimum elong	9195 Jul 16 02:38	0°♌29'24	0°26'34	minimum elong	9196 Jun 28 11:03	13°☿43'00	0°58'42
asc. node	9195 Jul 18 18:08	5°♌52'46		asc. node	9196 Jul 04 15:06	25°☿50'52	
evening rise	9195 Jul 23 22:23	16°♌33'00		evening rise	9196 Jul 06 23:56	0°♌33'35	
	9195 Jul 30 18:51	0°♍			9196 Jul 06 17:10	0°♌	
evening max el	9195 Aug 10 22:20	16°♍04'28	20°13'54	evening max el	9196 Jul 23 14:48	27°♌39'38	19°11'19
retrograde	9195 Aug 21 16:15	21°♍23'43		retrograde	9196 Jul 26 09:28	0°♍	
desc. node	9195 Aug 22 02:36	21°♍23'14		evening set	9196 Aug 01 16:42	2°♍09'44	
evening set	9195 Aug 23 15:11	21°♍13'55		desc. node	9196 Aug 03 13:36	1°♍59'03	
inferior conj	9195 Sep 01 17:28	17°♍15'42	-3°11'01		9196 Aug 07 23:45	0°♍19'28	
minimum elong	9195 Sep 01 09:02	17°♍28'08	3°08'12	inferior conj	9196 Aug 08 13:51	30°♌♌	
min. Earth dist.	9195 Sep 03 06:40	16°♍20'52	0.54916 AU	minimum elong	9196 Aug 12 01:25	27°♌47'47	-1°15'18
morning rise	9195 Sep 10 01:56	13°♍07'10		minimum elong	9196 Aug 11 22:06	27°♌53'21	1°14'11
direct	9195 Sep 14 10:39	12°♍26'07		min. Earth dist.	9196 Aug 14 19:52	25°♌56'31	0.56052 AU
morning max el	9195 Sep 27 23:05	19°♍01'34	23°54'00	morning rise	9196 Aug 20 03:40	23°♌04'18	
	9195 Oct 07 02:07	0°♎		direct	9196 Aug 25 07:51	22°♌02'31	
asc. node	9195 Oct 14 18:01	12°♎40'20		morning max el	9196 Sep 08 11:38	29°♌14'29	25°36'10
morning set	9195 Oct 22 07:14	27°♎47'15			9196 Sep 09 06:18	0°♍	
	9195 Oct 23 08:03	0°♏		asc. node	9196 Sep 29 14:33	0°♎	
				morning set	9196 Sep 30 14:56	1°♎58'22	
superior conj	9195 Oct 29 04:51	12°♏44'56	1°40'13		9196 Oct 05 18:38	12°♎33'15	
minimum elong	9195 Oct 29 04:21	12°♏42'14	1°40'24	superior conj	9196 Oct 12 15:05	27°♎33'03	1°34'42
max. Earth dist.	9195 Oct 31 14:32	17°♏55'33	1.33004 AU	minimum elong	9196 Oct 12 13:38	27°♎25'00	1°34'42
evening rise	9195 Nov 05 17:09	28°♏32'27			9196 Oct 13 17:46	0°♏	
	9195 Nov 06 10:38	0°♐		max. Earth dist.	9196 Oct 13 19:50	0°♏11'22	1.32076 AU
desc. node	9195 Nov 18 01:05	21°♐08'43		evening rise	9196 Oct 19 16:41	12°♏46'56	
	9195 Nov 23 16:08	0°♑			9196 Oct 28 13:52	0°♐	
evening max el	9195 Dec 09 14:35	19°♑49'56	27°26'28	desc. node	9196 Nov 03 22:11	10°♐42'51	
retrograde	9195 Dec 23 05:30	27°♑09'58			9196 Nov 18 08:39	0°♑	
evening set	9195 Dec 30 04:34	24°♑37'16		evening max el	9196 Nov 20 23:49	2°♑38'56	27°25'09
min. Earth dist.	9196 Jan 02 23:30	21°♑15'39	0.64011 AU	retrograde	9196 Dec 04 19:36	9°♑54'28	
inferior conj	9196 Jan 05 12:27	18°♑37'29	-1°43'50	evening set	9196 Dec 11 21:24	7°♑32'57	
minimum elong	9196 Jan 05 15:42	18°♑29'00	1°42'14	min. Earth dist.	9196 Dec 15 13:54	4°♑38'30	0.62102 AU
asc. node	9196 Jan 10 17:29	14°♑01'15		inferior conj	9196 Dec 18 12:47	1°♑54'50	-2°55'31
morning rise	9196 Jan 12 04:38	13°♑16'04		minimum elong	9196 Dec 18 18:28	1°♑41'39	2°53'07
direct	9196 Jan 14 15:37	12°♑45'53			9196 Dec 20 16:03	30°♌♐	
morning max el	9196 Jan 21 03:01	16°♑07'44	17°50'07	morning rise	9196 Dec 25 17:51	26°♐51'22	
	9196 Jan 31 01:11	0°♒		direct	9196 Dec 27 23:44	26°♐29'08	
morning set	9196 Feb 06 21:09	11°♒31'20		asc. node	9196 Dec 27 14:32	26°♐29'47	
desc. node	9196 Feb 14 00:32	23°♒33'54			9197 Jan 03 20:51	0°♑	
	9196 Feb 17 22:09	0°♓		morning max el	9197 Jan 03 19:53	29°♐57'36	17°49'26
				morning set	9197 Jan 19 15:13	24°♑31'52	
superior conj	9196 Feb 19 21:04	3°♓10'54	-0°42'05		9197 Jan 22 16:47	0°♒	
minimum elong	9196 Feb 19 16:24	2°♓51'59	0°41'16	superior conj	9197 Jan 30 19:02	14°♒05'18	0°00'45
max. Earth dist.	9196 Feb 25 05:47	11°♓46'29	1.44826 AU	minimum elong	9197 Jan 30 19:08	14°♒05'41	0°00'58
evening rise	9196 Mar 06 15:18	27°♓58'11		behind sun begin	9197 Jan 30 10:25	13°♒28'37	
	9196 Mar 07 23:07	0°♔		behind sun end	9197 Jan 31 03:51	14°♒42'40	
	9196 Mar 28 10:54	0°♕		desc. node	9197 Jan 30 21:26	14°♒15'30	
evening max el	9196 Apr 03 12:48	7°♕14'20	20°23'00	max. Earth dist.	9197 Feb 06 21:40	25°♒52'57	1.43484 AU
asc. node	9196 Apr 07 16:08	10°♕39'26			9197 Feb 09 11:05	0°♓	
retrograde	9196 Apr 11 11:38	11°♕51'54		evening rise	9197 Feb 14 05:46	7°♓31'59	
evening set	9196 Apr 15 10:42	10°♕21'25			9197 Mar 01 05:19	0°♔	
inferior conj	9196 Apr 20 18:12	4°♕15'40	3°11'01	evening max el	9197 Mar 17 09:53	20°♔55'06	21°34'00
minimum elong	9196 Apr 20 16:52	4°♕20'13	3°10'42	asc. node	9197 Mar 25 13:16	26°♔10'25	
min. Earth dist.	9196 Apr 21 11:34	3°♕16'18	0.67842 AU	retrograde	9197 Mar 26 09:51	26°♔14'07	
	9196 Apr 24 00:28	30°♕♔		evening set	9197 Mar 30 18:59	24°♔28'27	
morning rise	9196 Apr 25 22:48	27°♔58'45		inferior conj	9197 Apr 05 02:09	18°♔11'39	2°50'41
direct	9196 May 01 13:46	25°♔28'32		minimum elong	9197 Apr 05 00:10	18°♔18'32	2°50'13
	9196 May 10 12:43	0°♖		min. Earth dist.	9197 Apr 05 06:27	17°♔56'39	0.68386 AU
desc. node	9196 May 12 00:37	1°♖23'13		morning rise	9197 Apr 10 05:10	11°♔58'25	
morning max el	9196 May 12 21:49	2°♖15'43	24°24'41	direct	9197 Apr 15 06:32	9°♔46'38	
	9196 Jun 02 23:33	0°♗					

morning max el	9197 Apr 25 07:57	15° Υ 44'16	22°54'49		9198 Apr 08 13:11	0° Υ	
desc. node	9197 Apr 28 21:33	19° Υ 37'52		desc. node	9198 Apr 15 18:27	8° Υ 39'00	
	9197 May 07 00:02	0° \mathcal{B}			9198 Apr 30 16:43	0° \mathcal{B}	
	9197 May 26 23:33	0° Π		morning set	9198 May 09 15:17	13° \mathcal{B} 49'31	
morning set	9197 May 29 17:19	4° Π 29'19		max. Earth dist.	9198 May 16 05:13	24° \mathcal{B} 27'11	1.42129 AU
max. Earth dist.	9197 Jun 03 04:12	11° Π 59'37	1.39975 AU		9198 May 19 13:10	0° Π	
superior conj	9197 Jun 10 22:12	25° Π 43'32	-1°30'21	superior conj	9198 May 23 17:02	7° Π 06'04	-1°56'18
minimum elong	9197 Jun 11 03:50	26° Π 09'18	1°29'54	minimum elong	9198 May 23 22:52	7° Π 31'18	1°56'06
	9197 Jun 13 05:50	0° \mathcal{E}		evening rise	9198 Jun 03 20:40	27° Π 00'40	
evening rise	9197 Jun 20 16:42	14° \mathcal{E} 06'25			9198 Jun 05 12:05	0° \mathcal{E}	
asc. node	9197 Jun 21 12:07	15° \mathcal{E} 38'54		asc. node	9198 Jun 08 09:09	5° \mathcal{E} 11'25	
	9197 Jun 29 09:49	0° Ω		evening max el	9198 Jun 20 04:18	22° \mathcal{E} 47'37	18°08'31
evening max el	9197 Jul 06 18:08	9° Ω 57'32	18°29'49	retrograde	9198 Jun 27 00:23	26° \mathcal{E} 15'45	
retrograde	9197 Jul 14 11:31	13° Ω 48'58		evening set	9198 Jun 29 10:47	25° \mathcal{E} 49'50	
evening set	9197 Jul 16 14:09	13° Ω 32'35		inferior conj	9198 Jul 06 08:35	20° \mathcal{E} 58'58	1°47'22
inferior conj	9197 Jul 24 06:27	9° Ω 02'11	0°28'47	minimum elong	9198 Jul 06 11:25	20° \mathcal{E} 52'29	1°46'14
minimum elong	9197 Jul 24 07:29	9° Ω 00'09	0°28'10	min. Earth dist.	9198 Jul 09 16:02	17° \mathcal{E} 58'23	0.60087 AU
desc. node	9197 Jul 25 20:52	7° Ω 46'08		desc. node	9198 Jul 12 17:58	15° \mathcal{E} 34'37	
min. Earth dist.	9197 Jul 27 14:30	6° Ω 25'47	0.57884 AU	morning rise	9198 Jul 13 09:10	15° \mathcal{E} 10'13	
morning rise	9197 Jul 31 21:17	3° Ω 41'55		direct	9198 Jul 19 21:11	13° \mathcal{E} 08'46	
direct	9197 Aug 06 20:03	2° Ω 11'13		morning max el	9198 Aug 03 05:07	21° \mathcal{E} 03'30	27°45'22
morning max el	9197 Aug 21 05:03	9° Ω 49'45	26°57'22		9198 Aug 10 23:13	0° Ω	
	9197 Sep 05 15:47	0° \mathcal{M}			9198 Aug 29 14:53	0° \mathcal{M}	
asc. node	9197 Sep 17 11:52	21° \mathcal{M} 36'48		morning set	9198 Sep 04 09:56	11° \mathcal{M} 34'56	
morning set	9197 Sep 20 04:09	27° \mathcal{M} 11'03		asc. node	9198 Sep 04 08:48	11° \mathcal{M} 28'59	
	9197 Sep 21 11:46	0° \mathcal{L}		max. Earth dist.	9198 Sep 10 14:33	24° \mathcal{M} 56'19	1.31633 AU
superior conj	9197 Sep 27 02:51	12° \mathcal{L} 22'41	1°23'37	superior conj	9198 Sep 11 14:15	27° \mathcal{M} 07'24	1°07'22
minimum elong	9197 Sep 27 00:47	12° \mathcal{L} 11'11	1°23'24	minimum elong	9198 Sep 11 12:01	26° \mathcal{M} 54'59	1°06'58
max. Earth dist.	9197 Sep 27 05:02	12° \mathcal{L} 34'50	1.31619 AU		9198 Sep 12 21:23	0° \mathcal{L}	
evening rise	9197 Oct 03 22:22	27° \mathcal{L} 16'48		evening rise	9198 Sep 18 07:53	11° \mathcal{L} 55'02	
	9197 Oct 05 05:25	0° \mathcal{M}			9198 Sep 27 09:51	0° \mathcal{M}	
desc. node	9197 Oct 21 19:19	29° \mathcal{M} 38'45		desc. node	9198 Oct 08 16:28	17° \mathcal{M} 41'08	
	9197 Oct 22 01:05	0° \mathcal{X}		evening max el	9198 Oct 15 23:24	25° \mathcal{M} 58'28	25°42'38
evening max el	9197 Nov 03 03:26	14° \mathcal{X} 43'59	26°50'12		9198 Oct 20 23:34	0° \mathcal{X}	
retrograde	9197 Nov 17 01:33	21° \mathcal{X} 53'04		retrograde	9198 Oct 29 21:21	3° \mathcal{X} 00'15	
evening set	9197 Nov 23 21:50	19° \mathcal{X} 53'26		evening set	9198 Nov 05 01:02	1° \mathcal{X} 32'00	
min. Earth dist.	9197 Nov 27 17:45	17° \mathcal{X} 15'43	0.60021 AU		9198 Nov 07 20:18	30° \mathcal{R} \mathcal{M}	
inferior conj	9197 Nov 30 22:05	14° \mathcal{X} 41'12	-4°06'23	min. Earth dist.	9198 Nov 09 11:54	28° \mathcal{M} 55'26	0.57957 AU
minimum elong	9197 Dec 01 05:31	14° \mathcal{X} 26'05	4°03'55	inferior conj	9198 Nov 12 12:57	26° \mathcal{M} 47'03	-5°06'12
morning rise	9197 Dec 08 15:44	9° \mathcal{X} 58'30		minimum elong	9198 Nov 12 19:41	26° \mathcal{M} 35'10	5°04'45
direct	9197 Dec 10 19:52	9° \mathcal{X} 40'45		morning rise	9198 Nov 20 16:39	22° \mathcal{M} 26'48	
asc. node	9197 Dec 14 11:35	10° \mathcal{X} 33'34		direct	9198 Nov 22 23:55	22° \mathcal{M} 10'11	
morning max el	9197 Dec 18 08:51	13° \mathcal{X} 24'56	18°07'45	asc. node	9198 Dec 01 08:36	26° \mathcal{M} 06'00	
	9197 Dec 29 13:47	0° \mathcal{Z}		morning max el	9198 Dec 01 14:11	26° \mathcal{M} 19'17	18°46'48
morning set	9198 Jan 03 01:05	8° \mathcal{Z} 16'20			9198 Dec 04 20:11	0° \mathcal{X}	
superior conj	9198 Jan 12 17:30	26° \mathcal{Z} 09'04	0°37'24	morning set	9198 Dec 17 21:54	22° \mathcal{X} 30'44	
minimum elong	9198 Jan 12 20:12	26° \mathcal{Z} 21'09	0°37'15		9198 Dec 21 17:44	0° \mathcal{Z}	
	9198 Jan 14 21:31	0° \approx		superior conj	9198 Dec 26 12:01	9° \mathcal{Z} 09'36	1°05'32
desc. node	9198 Jan 17 18:23	4° \approx 59'26		minimum elong	9198 Dec 26 15:18	9° \mathcal{Z} 25'03	1°05'23
max. Earth dist.	9198 Jan 20 08:39	9° \approx 23'58	1.41643 AU	max. Earth dist.	9199 Jan 02 15:46	22° \mathcal{Z} 14'33	1.39513 AU
evening rise	9198 Jan 25 11:47	17° \approx 50'44		desc. node	9199 Jan 04 15:22	25° \mathcal{Z} 42'22	
	9198 Feb 02 05:56	0° \mathcal{H}		evening rise	9199 Jan 06 15:15	29° \mathcal{Z} 07'13	
	9198 Feb 23 21:20	0° Υ			9199 Jan 07 03:45	0° \approx	
evening max el	9198 Feb 28 02:32	4° Υ 38'07	22°52'30		9199 Jan 26 16:43	0° \mathcal{H}	
retrograde	9198 Mar 10 05:55	10° Υ 38'28		evening max el	9199 Feb 10 16:42	18° \mathcal{H} 25'19	24°12'34
asc. node	9198 Mar 12 10:25	10° Υ 14'49		retrograde	9199 Feb 21 22:34	25° \mathcal{H} 01'02	
evening set	9198 Mar 15 02:17	8° Υ 38'04		evening set	9199 Feb 27 07:07	22° \mathcal{H} 46'58	
inferior conj	9198 Mar 20 11:02	2° Υ 13'25	2°20'48	asc. node	9199 Feb 27 07:32	22° \mathcal{H} 46'04	
minimum elong	9198 Mar 20 08:48	2° Υ 21'08	2°20'11	min. Earth dist.	9199 Mar 03 23:26	17° \mathcal{H} 24'18	0.68203 AU
min. Earth dist.	9198 Mar 20 03:10	2° Υ 40'39	0.68502 AU	inferior conj	9199 Mar 04 19:00	16° \mathcal{H} 18'20	1°42'01
	9198 Mar 22 02:10	30° \mathcal{R} \mathcal{H}		minimum elong	9199 Mar 04 16:58	16° \mathcal{H} 25'10	1°41'24
morning rise	9198 Mar 25 15:12	26° \mathcal{H} 05'16		morning rise	9199 Mar 10 02:53	10° \mathcal{H} 16'48	
direct	9198 Mar 30 02:48	24° \mathcal{H} 14'59		direct	9199 Mar 14 01:22	8° \mathcal{H} 48'34	
morning max el	9198 Apr 07 21:57	29° \mathcal{H} 21'13	21°28'45	morning max el	9199 Mar 21 19:01	13° \mathcal{H} 10'36	20°13'16

desc. node	9199 Apr 02 15:21	28° X 14'23		morning max el	9200 Mar 04 00:03	27° \approx 11'05	19°12'05
	9199 Apr 03 20:42	0° Y			9200 Mar 06 13:58	0° X	
morning set	9199 Apr 18 16:29	22° Y 16'46		greatest brilliancy	9200 Mar 17 03:32	14° X 40'04	-0.7m
	9199 Apr 23 15:30	0° B		desc. node	9200 Mar 19 12:14	18° X 14'13	
max. Earth dist.	9199 Apr 28 14:00	7° B 49'39	1.43909 AU		9200 Mar 27 04:06	0° Y	
				morning set	9200 Mar 27 17:36	0° Y 52'09	
superior conj	9199 May 04 12:00	17° B 25'36	-2°11'07	max. Earth dist.	9200 Apr 10 05:17	21° Y 52'53	1.45096 AU
minimum elong	9199 May 04 14:24	17° B 35'27	2°11'16				
	9199 May 12 00:11	0° II		superior conj	9200 Apr 13 07:24	26° Y 45'36	-2°08'32
evening rise	9199 May 17 07:18	9° II 06'37		minimum elong	9200 Apr 13 02:48	26° Y 27'22	2°08'29
asc. node	9199 May 26 06:13	24° II 23'02			9200 Apr 15 08:20	0° B	
	9199 May 29 21:22	0° B		evening rise	9200 Apr 27 20:03	20° B 15'27	
evening max el	9199 Jun 03 17:33	6° B 00'29	18°06'23		9200 May 03 17:59	0° II	
retrograde	9199 Jun 10 03:35	9° B 20'53		asc. node	9200 May 12 03:17	13° II 06'24	
evening set	9199 Jun 12 21:38	8° B 42'50		evening max el	9200 May 17 06:38	19° II 27'39	18°22'48
inferior conj	9199 Jun 19 04:32	3° B 32'30	2°39'25	retrograde	9200 May 23 16:38	22° II 54'37	
minimum elong	9199 Jun 19 07:13	3° B 25'27	2°38'32	evening set	9200 May 26 18:08	22° II 02'54	
min. Earth dist.	9199 Jun 22 02:06	0° B 31'35	0.62334 AU	inferior conj	9200 Jun 01 14:09	16° II 34'54	3°08'58
	9199 Jun 22 14:56	30° R II		minimum elong	9200 Jun 01 15:47	16° II 30'08	3°08'29
morning rise	9199 Jun 25 14:55	27° II 25'40		min. Earth dist.	9200 Jun 03 21:34	13° II 53'56	0.64373 AU
desc. node	9199 Jun 29 15:02	25° II 22'36		morning rise	9200 Jun 07 12:22	10° II 18'43	
direct	9199 Jul 02 08:34	24° II 58'59		direct	9200 Jun 14 04:29	7° II 36'50	
	9199 Jul 13 04:38	0° B		desc. node	9200 Jun 15 12:04	7° II 42'33	
morning max el	9199 Jul 16 11:10	3° B 00'57	27°55'11	morning max el	9200 Jun 27 20:56	15° II 36'28	27°28'38
	9199 Aug 05 10:55	0° Q			9200 Jul 09 16:03	0° B	
morning set	9199 Aug 19 10:00	25° Q 39'17			9200 Jul 28 04:42	0° Q	
	9199 Aug 21 12:35	0° P		morning set	9200 Aug 02 01:49	9° Q 17'26	
asc. node	9199 Aug 22 05:44	1° P 29'55		max. Earth dist.	9200 Aug 06 19:26	18° Q 52'05	1.33092 AU
max. Earth dist.	9199 Aug 24 20:39	7° P 05'25	1.32120 AU	asc. node	9200 Aug 08 02:40	21° Q 35'17	
superior conj	9199 Aug 26 23:28	11° P 41'31	0°46'16	superior conj	9200 Aug 10 04:31	25° Q 59'25	0°20'45
minimum elong	9199 Aug 26 21:33	11° P 31'06	0°45'48	minimum elong	9200 Aug 10 03:30	25° Q 54'02	0°20'22
evening rise	9199 Sep 02 19:16	26° P 35'39			9200 Aug 12 01:22	0° P	
	9199 Sep 04 09:45	0° Q		evening rise	9200 Aug 17 06:37	11° P 12'59	
	9199 Sep 21 18:42	0° M			9200 Aug 26 20:32	0° Q	
desc. node	9199 Sep 25 13:37	4° M 29'13		evening max el	9200 Sep 07 23:49	16° Q 38'12	22°31'16
evening max el	9199 Sep 27 12:10	6° M 27'54	24°11'04	desc. node	9200 Sep 11 10:45	19° Q 35'45	
retrograde	9199 Oct 11 04:57	13° M 19'38		retrograde	9200 Sep 21 00:37	23° Q 08'14	
evening set	9199 Oct 16 03:35	12° M 25'54		evening set	9200 Sep 24 11:05	22° Q 42'13	
min. Earth dist.	9199 Oct 21 22:52	9° M 32'06	0.56179 AU	min. Earth dist.	9200 Oct 02 06:49	19° Q 13'57	0.54989 AU
inferior conj	9199 Oct 24 07:26	8° M 05'01	-5°38'15	inferior conj	9200 Oct 03 08:02	18° Q 38'14	-5°22'50
minimum elong	9199 Oct 24 09:05	8° M 02'27	5°38'02	minimum elong	9200 Oct 03 01:54	18° Q 46'56	5°21'56
morning rise	9199 Nov 01 16:38	4° M 05'49		morning rise	9200 Oct 11 18:33	14° Q 50'37	
direct	9199 Nov 04 08:49	3° M 47'08		direct	9200 Oct 15 00:06	14° Q 26'57	
morning max el	9199 Nov 14 08:17	8° M 30'10	19°48'10	morning max el	9200 Oct 26 13:15	19° Q 52'19	21°11'40
asc. node	9199 Nov 18 05:36	12° M 52'26			9200 Nov 03 16:53	0° M	
	9199 Nov 28 12:44	0° J		asc. node	9200 Nov 04 02:35	0° M 37'33	
morning set	9199 Dec 02 01:56	7° J 03'45		morning set	9200 Nov 15 10:34	21° M 48'10	
					9200 Nov 19 08:25	0° J	
superior conj	9199 Dec 09 21:33	22° J 52'15	1°24'59	superior conj	9200 Nov 22 17:53	7° J 05'27	1°36'25
minimum elong	9199 Dec 10 00:10	23° J 05'17	1°25'01	minimum elong	9200 Nov 22 19:20	7° J 12'57	1°36'37
	9199 Dec 13 13:13	0° Z		max. Earth dist.	9200 Nov 27 08:02	16° J 23'32	1.35365 AU
max. Earth dist.	9199 Dec 15 22:03	4° Z 28'49	1.37343 AU	evening rise	9200 Dec 01 10:01	24° J 16'24	
evening rise	9199 Dec 19 15:41	11° Z 18'13			9200 Dec 04 12:36	0° Z	
desc. node	9199 Dec 22 12:21	16° Z 19'51		desc. node	9200 Dec 08 09:23	6° Z 47'55	
	9199 Dec 30 19:41	0° \approx			9200 Dec 23 09:56	0° \approx	
	9200 Jan 22 01:43	0° X		evening max el	9201 Jan 05 19:10	15° \approx 58'51	26°30'09
evening max el	9200 Jan 24 05:57	2° X 13'51	25°27'33	retrograde	9201 Jan 18 17:48	23° \approx 15'49	
retrograde	9200 Feb 05 10:45	9° X 15'33		evening set	9201 Jan 25 02:48	20° \approx 42'25	
evening set	9200 Feb 11 07:52	6° X 49'55		min. Earth dist.	9201 Jan 29 05:36	16° \approx 29'12	0.66424 AU
asc. node	9200 Feb 14 04:40	3° X 53'58		inferior conj	9201 Jan 31 00:29	14° \approx 20'21	-0°01'04
min. Earth dist.	9200 Feb 15 16:58	2° X 02'08	0.67505 AU	minimum elong	9201 Jan 31 00:30	14° \approx 20'17	0°00'51
inferior conj	9200 Feb 17 00:08	0° X 21'55	0°54'37	transit middle	9201 Jan 31 00:30	14° \approx 20'17	0°00'51
minimum elong	9200 Feb 16 22:51	0° X 26'05	0°54'16	transit begin	9201 Jan 30 21:36	14° \approx 29'01	
	9200 Feb 17 06:58	30° R \approx		transit end	9201 Jan 31 03:24	14° \approx 11'33	
morning rise	9200 Feb 22 14:14	24° \approx 28'43		asc. node	9201 Jan 31 01:46	14° \approx 16'28	
direct	9200 Feb 26 00:37	23° \approx 21'03					

morning rise	9201 Feb 05 23:07	8° \approx 37'31		evening set	9202 Jan 08 13:49	4° \approx 18'34	
direct	9201 Feb 08 22:51	7° \approx 47'26		min. Earth dist.	9202 Jan 12 11:13	0° \approx 38'45	0.64982 AU
morning max el	9201 Feb 15 11:50	11° \approx 18'09	18°26'54		9202 Jan 13 01:29	30° \approx 3	
	9201 Feb 28 23:44	0° \approx		inferior conj	9202 Jan 14 17:44	28° \approx 08'33	-1°04'26
desc. node	9201 Mar 06 09:06	8° \approx 31'52		minimum elong	9202 Jan 14 19:40	28° \approx 03'13	1°03'22
morning set	9201 Mar 07 16:31	10° \approx 36'37		asc. node	9202 Jan 17 22:52	24° \approx 50'27	
	9201 Mar 19 23:25	0° \approx		morning rise	9202 Jan 21 03:01	22° \approx 38'27	
				direct	9202 Jan 23 17:56	22° \approx 02'13	
superior conj	9201 Mar 23 13:20	5° \approx 36'16	-1°45'41	morning max el	9202 Jan 30 03:58	25° \approx 24'47	17°58'32
minimum elong	9201 Mar 23 03:52	4° \approx 59'16	1°44'52		9202 Feb 03 01:12	0° \approx	
max. Earth dist.	9201 Mar 23 23:57	6° \approx 17'48	1.45571 AU	morning set	9202 Feb 16 20:59	21° \approx 49'10	
evening rise	9201 Apr 08 09:08	0° \approx 26'44		desc. node	9202 Feb 21 05:59	29° \approx 02'13	
	9201 Apr 08 02:22	0° \approx			9202 Feb 21 20:05	0° \approx	
greatest brilliancy	9201 Apr 17 23:12	15° \approx 32'12	-0.8m				
	9201 Apr 28 00:07	0° \approx		superior conj	9202 Mar 03 00:15	14° \approx 47'54	-1°07'19
asc. node	9201 Apr 29 00:22	1° \approx 12'36		minimum elong	9202 Mar 02 16:40	14° \approx 17'48	1°06'15
evening max el	9201 Apr 30 17:00	3° \approx 03'00	18°56'58	max. Earth dist.	9202 Mar 06 19:24	20° \approx 48'03	1.45303 AU
retrograde	9201 May 07 11:40	6° \approx 49'17			9202 Mar 12 16:46	0° \approx	
evening set	9201 May 10 20:52	5° \approx 43'01		evening rise	9202 Mar 19 03:03	9° \approx 56'18	
inferior conj	9201 May 16 09:41	29° \approx 59'05	3°20'34		9202 Apr 01 07:44	0° \approx	
minimum elong	9201 May 16 10:02	29° \approx 57'58	3°20'19	greatest brilliancy	9202 Apr 02 06:38	1° \approx 24'36	-0.6m
	9201 May 16 09:23	30° \approx 8		evening max el	9202 Apr 13 22:50	16° \approx 42'25	19°47'32
min. Earth dist.	9201 May 18 01:54	27° \approx 52'02	0.66061 AU	asc. node	9202 Apr 15 21:28	18° \approx 30'11	
morning rise	9201 May 21 22:37	23° \approx 39'46		retrograde	9202 Apr 21 09:38	20° \approx 58'46	
direct	9201 May 28 07:43	20° \approx 54'11		evening set	9202 Apr 25 03:19	19° \approx 37'22	
desc. node	9201 Jun 02 09:04	22° \approx 18'59		inferior conj	9202 Apr 30 12:00	13° \approx 39'13	3°17'56
morning max el	9201 Jun 10 07:36	28° \approx 38'11	26°32'00	minimum elong	9202 Apr 30 11:12	13° \approx 41'53	3°17'42
	9201 Jun 11 15:01	0° \approx		min. Earth dist.	9202 May 01 13:29	12° \approx 13'57	0.67322 AU
	9201 Jul 03 11:08	0° \approx		morning rise	9202 May 05 18:47	7° \approx 20'40	
morning set	9201 Jul 16 06:06	22° \approx 20'09		direct	9202 May 11 17:08	4° \approx 42'08	
	9201 Jul 20 05:27	0° \approx		desc. node	9202 May 20 06:01	8° \approx 41'27	
max. Earth dist.	9201 Jul 20 07:49	0° \approx 11'38	1.34559 AU	morning max el	9202 May 23 17:21	11° \approx 54'26	25°14'33
					9202 Jun 07 05:15	0° \approx	
superior conj	9201 Jul 25 03:02	9° \approx 54'12	-0°08'33		9202 Jun 26 04:12	0° \approx	
minimum elong	9201 Jul 25 03:32	9° \approx 56'43	0°08'40	morning set	9202 Jun 28 18:41	4° \approx 36'36	
behind sun begin	9201 Jul 24 22:34	9° \approx 31'04		max. Earth dist.	9202 Jul 02 09:45	11° \approx 15'05	1.36471 AU
behind sun end	9201 Jul 25 08:30	10° \approx 22'24					
asc. node	9201 Jul 25 23:36	11° \approx 40'38		superior conj	9202 Jul 08 16:15	23° \approx 19'10	-0°40'21
evening rise	9201 Aug 01 15:57	25° \approx 40'43		minimum elong	9202 Jul 08 18:45	23° \approx 31'30	0°40'08
	9201 Aug 03 18:13	0° \approx			9202 Jul 12 00:18	0° \approx	
evening max el	9201 Aug 20 19:31	27° \approx 05'26	20°59'14	asc. node	9202 Jul 12 20:34	1° \approx 42'36	
	9201 Aug 24 05:58	0° \approx		evening rise	9202 Jul 16 21:06	9° \approx 53'08	
desc. node	9201 Aug 29 07:54	2° \approx 28'33			9202 Jul 27 18:13	0° \approx	
retrograde	9201 Sep 01 12:58	2° \approx 54'16		evening max el	9202 Aug 03 04:34	8° \approx 14'30	19°44'46
evening set	9201 Sep 03 19:24	2° \approx 42'04		retrograde	9202 Aug 13 05:01	13° \approx 11'41	
	9201 Sep 10 19:01	30° \approx 8		evening set	9202 Aug 15 01:33	13° \approx 02'15	
inferior conj	9201 Sep 13 00:20	28° \approx 45'45	-4°11'27	desc. node	9202 Aug 16 05:02	12° \approx 47'28	
minimum elong	9201 Sep 12 14:37	28° \approx 59'30	4°08'45	inferior conj	9202 Aug 23 22:55	9° \approx 00'09	-2°22'08
min. Earth dist.	9201 Sep 13 15:25	28° \approx 24'22	0.54659 AU	minimum elong	9202 Aug 23 16:28	9° \approx 10'08	2°19'52
morning rise	9201 Sep 21 10:07	24° \approx 50'24		min. Earth dist.	9202 Aug 26 02:32	7° \approx 40'20	0.55297 AU
direct	9201 Sep 25 07:59	24° \approx 17'34		morning rise	9202 Sep 01 05:21	4° \approx 37'40	
	9201 Oct 07 17:59	0° \approx		direct	9202 Sep 05 22:25	3° \approx 48'36	
morning max el	9201 Oct 08 06:44	0° \approx 29'15	22°52'31	morning max el	9202 Sep 19 18:44	10° \approx 41'22	24°38'55
asc. node	9201 Oct 21 23:31	19° \approx 06'44			9202 Oct 04 07:33	0° \approx	
	9201 Oct 27 17:06	0° \approx		asc. node	9202 Oct 08 20:28	8° \approx 09'16	
morning set	9201 Oct 30 21:39	6° \approx 36'45		morning set	9202 Oct 15 09:24	21° \approx 24'36	
					9202 Oct 19 08:26	0° \approx	
superior conj	9201 Nov 06 21:37	21° \approx 38'07	1°40'43	superior conj	9202 Oct 22 06:07	6° \approx 22'13	1°38'35
minimum elong	9201 Nov 06 21:48	21° \approx 39'04	1°40'55	minimum elong	9202 Oct 22 05:11	6° \approx 17'03	1°38'42
max. Earth dist.	9201 Nov 10 01:23	28° \approx 18'25	1.33739 AU	max. Earth dist.	9202 Oct 24 02:53	10° \approx 25'58	1.32551 AU
	9201 Nov 10 20:58	0° \approx		evening rise	9202 Oct 29 13:14	21° \approx 53'30	
evening rise	9201 Nov 14 18:21	7° \approx 51'11			9202 Nov 02 15:26	0° \approx	
desc. node	9201 Nov 25 06:26	27° \approx 00'37		desc. node	9202 Nov 12 03:31	16° \approx 51'06	
	9201 Nov 27 01:43	0° \approx			9202 Nov 20 22:37	0° \approx	
evening max el	9201 Dec 19 08:13	29° \approx 31'54	27°13'16				
	9201 Dec 19 20:07	0° \approx		evening max el	9202 Dec 01 19:43	12° \approx 41'21	27°29'57
retrograde	9202 Jan 01 19:02	6° \approx 53'43		retrograde	9202 Dec 15 13:27	20° \approx 30'02	

evening set	9202 Dec 22 14:14	17°  31'09		evening set	9203 Dec 05 00:40	0°  12'56	
min. Earth dist.	9202 Dec 26 07:49	14°  21'39	0.63223 AU		9203 Dec 05 08:50	30°  R 	
inferior conj	9202 Dec 29 01:11	11°  39'42	-2°13'57	min. Earth dist.	9203 Dec 08 17:48	27°  27'05	0.61227 AU
minimum elong	9202 Dec 29 05:29	11°  29'01	2°11'57	inferior conj	9203 Dec 11 19:38	24°  24'54'0	-3°26'07
morning rise	9203 Jan 04 22:45	6°  25'17		minimum elong	9203 Dec 12 02:14	24°  24'31'11	3°23'35
asc. node	9203 Jan 04 19:57	6°  27'55		morning rise	9203 Dec 19 06:09	19°  25'02'4	
direct	9203 Jan 07 07:08	5°  35'57		direct	9203 Dec 21 10:55	19°  25'30'22	
morning max el	9203 Jan 13 21:26	9°  22'52	17°47'32	asc. node	9203 Dec 22 17:02	19°  25'37'07	
	9203 Jan 27 16:10	0°  ∞		morning max el	9203 Dec 28 13:04	23°  25'04'24	17°54'50
morning set	9203 Jan 30 03:18	4°  ∞16'37			9204 Jan 02 23:53	0°  ∞	
desc. node	9203 Feb 08 02:54	19°  ∞40'44		morning set	9204 Jan 13 04:52	17°  25'38'49	
					9204 Jan 20 00:45	0°  ∞	
superior conj	9203 Feb 11 07:35	25°  ∞00'03	-0°23'27	superior conj	9204 Jan 23 16:26	6°  ∞25'35	0°17'15
minimum elong	9203 Feb 11 05:07	24°  ∞49'53	0°22'54	minimum elong	9204 Jan 23 17:55	6°  ∞32'02	0°17'15
	9203 Feb 14 08:51	0°  ∞		desc. node	9204 Jan 25 23:50	10°  ∞24'03	
max. Earth dist.	9203 Feb 17 13:24	5°  ∞08'18	1.44330 AU	max. Earth dist.	9204 Jan 31 03:56	19°  ∞03'49	1.42757 AU
evening rise	9203 Feb 26 14:22	19°  ∞18'06		evening rise	9204 Feb 06 10:24	29°  ∞09'23	
	9203 Mar 05 15:20	0°  ∞			9204 Feb 06 23:16	0°  ∞	
	9203 Mar 27 14:11	0°  ∞			9204 Feb 27 06:50	0°  ∞	
evening max el	9203 Mar 27 23:12	0°  ∞23'10	20°52'02	evening max el	9204 Mar 09 18:21	14°  ∞05'33	22°06'42
asc. node	9203 Apr 02 18:37	4°  ∞44'35		retrograde	9204 Mar 19 05:34	19°  ∞04'19	
retrograde	9203 Apr 05 08:11	5°  ∞17'35		asc. node	9204 Mar 19 15:45	19°  ∞04'05'55	
evening set	9203 Apr 09 11:24	3°  ∞40'43		evening set	9204 Mar 23 19:29	17°  ∞04'49'38	
	9203 Apr 12 22:08	30°  R 		inferior conj	9204 Mar 29 03:08	11°  ∞02'29'13	2°39'07
inferior conj	9203 Apr 14 18:32	27°  ∞30'12	3°03'35	minimum elong	9204 Mar 29 01:00	11°  ∞03'36'39	2°38'34
minimum elong	9203 Apr 14 16:53	27°  ∞35'54	3°03'13	min. Earth dist.	9204 Mar 29 02:08	11°  ∞03'32'40	0.68499 AU
min. Earth dist.	9203 Apr 15 06:17	26°  ∞49'38	0.68134 AU	morning rise	9204 Apr 03 06:21	5°  ∞01'18'13	
morning rise	9203 Apr 19 22:08	21°  ∞14'46		direct	9204 Apr 08 01:53	3°  ∞01'15'25	
direct	9203 Apr 25 07:32	18°  ∞01'51'33		morning max el	9204 Apr 17 13:53	8°  ∞01'50'01	22°17'14
morning max el	9203 May 06 02:30	25°  ∞18'03	23°46'24	desc. node	9204 Apr 22 23:55	14°  ∞01'57'47	
desc. node	9203 May 07 02:58	26°  ∞21'23			9204 May 04 02:08	0°  ∞	
	9203 May 10 08:43	0°  ∞		morning set	9204 May 20 23:58	25°  ∞01'55'33	
	9203 May 31 17:13	0°  ∞			9204 May 23 11:43	0°  ∞	
morning set	9203 Jun 10 10:17	15°  ∞02'52'20		max. Earth dist.	9204 May 26 04:44	4°  ∞01'31'03	1.40933 AU
max. Earth dist.	9203 Jun 14 06:16	22°  ∞01'31'18	1.38679 AU				
	9203 Jun 18 10:01	0°  ∞		superior conj	9204 Jun 02 23:27	18°  ∞00'48	-1°42'19
superior conj	9203 Jun 21 16:31	6°  ∞04'49	-1°12'42	minimum elong	9204 Jun 03 05:29	18°  ∞01'27'46	1°41'56
minimum elong	9203 Jun 21 21:10	6°  ∞26'44	1°12'15		9204 Jun 09 13:07	0°  ∞	
asc. node	9203 Jun 29 17:33	21°  ∞36'45		evening rise	9204 Jun 13 07:08	7°  ∞00'16	
evening rise	9203 Jun 30 19:17	23°  ∞42'33		asc. node	9204 Jun 15 14:33	11°  ∞01'18'44	
	9203 Jul 04 01:20	0°  ∞			9204 Jun 26 23:28	0°  ∞	
evening max el	9203 Jul 17 02:09	20°  ∞08'42	18°51'08	evening max el	9204 Jun 29 08:48	2°  ∞01'40'58	18°18'15
retrograde	9203 Jul 25 12:38	24°  ∞20'11		retrograde	9204 Jul 06 15:39	6°  ∞01'20'44	
evening set	9203 Jul 27 11:41	24°  ∞07'28		evening set	9204 Jul 08 21:34	6°  ∞01'00'37	
desc. node	9203 Aug 03 02:09	20°  ∞53'55		inferior conj	9204 Jul 16 05:36	1°  ∞01'21'03	1°05'33
inferior conj	9203 Aug 04 15:21	19°  ∞48'24	-0°28'30	minimum elong	9204 Jul 16 07:42	1°  ∞01'16'38	1°04'34
minimum elong	9203 Aug 04 14:10	19°  ∞50'32	0°28'13		9204 Jul 17 19:53	30°  R 	
min. Earth dist.	9203 Aug 07 17:35	17°  ∞36'03	0.56771 AU	min. Earth dist.	9204 Jul 19 14:42	28°  ∞01'31'42	0.58798 AU
morning rise	9203 Aug 12 13:20	14°  ∞49'10		desc. node	9204 Jul 19 23:17	28°  ∞01'14'47	
direct	9203 Aug 18 02:05	13°  ∞35'41		morning rise	9204 Jul 23 14:32	25°  ∞01'47'23	
morning max el	9203 Sep 01 08:36	20°  ∞59'29	26°14'12	direct	9204 Jul 29 19:38	24°  ∞01'03'46	
	9203 Sep 09 04:20	0°  ∞			9204 Aug 11 05:41	0°  ∞	
asc. node	9203 Sep 25 17:24	27°  ∞03'36'44		morning max el	9204 Aug 13 04:52	1°  ∞01'49'43	27°22'30
	9203 Sep 26 21:47	0°  ∞			9204 Sep 02 12:05	0°  ∞	
morning set	9203 Sep 29 20:13	6°  ∞07'28		asc. node	9204 Sep 11 14:19	17°  ∞01'17'21'37	
				morning set	9204 Sep 13 04:21	20°  ∞01'17'39'53	
					9204 Sep 17 12:07	0°  ∞	
superior conj	9203 Oct 06 17:14	21°  ∞01'11'29	1°30'39	superior conj	9204 Sep 20 05:01	5°  ∞01'59'17	1°17'20
minimum elong	9203 Oct 06 15:28	21°  ∞01'42	1°30'34	minimum elong	9204 Sep 20 02:49	5°  ∞01'47'04	1°17'02
max. Earth dist.	9203 Oct 07 10:23	22°  ∞01'46'30	1.31825 AU	max. Earth dist.	9204 Sep 19 20:22	5°  ∞01'11'15	1.31566 AU
	9203 Oct 10 17:23	0°  ∞		evening rise	9204 Sep 26 23:15	20°  ∞01'49'26	
evening rise	9203 Oct 13 15:43	6°  ∞15'15'31			9204 Oct 01 09:52	0°  ∞	
	9203 Oct 26 04:37	0°  ∞		desc. node	9204 Oct 15 21:45	24°  ∞01'14'45'46	
desc. node	9203 Oct 30 00:37	6° ∞21'10'30			9204 Oct 19 20:03	0° ∞	
evening max el	9203 Nov 14 03:12	25° ∞21'14'05	27°14'37	evening max el	9204 Oct 26 03:39	6° ∞21'57'26	26°25'09
	9203 Nov 20 06:05	0° ∞					
retrograde	9203 Nov 28 00:02	2° ∞26'06					

retrograde	9204 Nov 09 01:38	14°♄03'15		evening set	9205 Oct 27 09:31	23°♄35'29	
evening set	9204 Nov 15 16:39	12°♄15'47		min. Earth dist.	9205 Nov 01 07:35	20°♄53'53	0.57144 AU
min. Earth dist.	9204 Nov 19 17:00	9°♄41'07	0.59126 AU	inferior conj	9205 Nov 04 03:37	19°♄01'07	-5°24'25
inferior conj	9204 Nov 22 21:27	7°♄15'35	-4°33'55	minimum elong	9205 Nov 04 08:47	18°♄52'32	5°23'34
minimum elong	9204 Nov 23 05:01	7°♄01'07	4°31'46	morning rise	9205 Nov 12 10:21	14°♄50'43	
morning rise	9204 Nov 30 19:50	2°♄42'34		direct	9205 Nov 14 20:32	14°♄33'44	
direct	9204 Dec 03 00:47	2°♄25'36		morning max el	9205 Nov 24 00:14	18°♄56'03	19°10'10
asc. node	9204 Dec 08 14:05	4°♄19'57		asc. node	9205 Nov 25 11:05	20°♄25'43	
morning max el	9204 Dec 10 23:14	6°♄18'49	18°21'48		9205 Dec 02 06:39	0°♄	
	9204 Dec 25 23:27	0°♄		morning set	9205 Dec 10 20:04	16°♄00'08	
morning set	9204 Dec 26 19:53	1°♄37'20			9205 Dec 17 21:37	0°♄	
superior conj	9205 Jan 05 00:04	18°♄55'21	0°50'24	superior conj	9205 Dec 19 01:30	2°♄15'15	1°14'48
minimum elong	9205 Jan 05 03:12	19°♄09'45	0°50'13	minimum elong	9205 Dec 19 04:36	2°♄30'13	1°14'44
	9205 Jan 11 05:05	0°♄		max. Earth dist.	9205 Dec 25 19:01	14°♄50'17	1.38575 AU
desc. node	9205 Jan 11 20:47	1°♄07'52		evening rise	9205 Dec 29 13:45	21°♄31'30	
max. Earth dist.	9205 Jan 12 13:21	2°♄19'02	1.40756 AU	desc. node	9205 Dec 29 17:44	21°♄48'46	
evening rise	9205 Jan 17 01:11	9°♄51'37			9206 Jan 03 14:22	0°♄	
	9205 Jan 29 23:08	0°♄			9206 Jan 23 22:48	0°♄	
evening max el	9205 Feb 20 09:35	27°♄49'52	23°26'37	evening max el	9206 Feb 02 22:58	11°♄37'04	24°45'31
	9205 Feb 22 17:10	0°♄		retrograde	9206 Feb 14 15:26	18°♄26'01	
retrograde	9205 Mar 03 00:25	4°♄06'24		evening set	9206 Feb 20 05:15	16°♄06'37	
asc. node	9205 Mar 06 12:54	3°♄06'12		asc. node	9206 Feb 21 10:03	14°♄59'08	
evening set	9205 Mar 08 01:57	1°♄59'42		min. Earth dist.	9206 Feb 24 18:18	10°♄58'42	0.67948 AU
	9205 Mar 10 01:36	30°♄		inferior conj	9206 Feb 25 18:50	9°♄37'20	1°22'58
inferior conj	9205 Mar 13 11:51	25°♄32'42	2°05'26	minimum elong	9206 Feb 25 17:03	9°♄43'15	1°22'26
minimum elong	9205 Mar 13 09:39	25°♄40'15	2°04'48	morning rise	9206 Mar 03 05:03	3°♄39'04	
min. Earth dist.	9205 Mar 12 22:53	26°♄17'15	0.68428 AU	direct	9206 Mar 06 22:07	2°♄20'02	
morning rise	9205 Mar 18 17:19	19°♄27'23		morning max el	9206 Mar 14 07:17	6°♄27'21	19°45'20
direct	9205 Mar 22 23:10	17°♄46'46		greatest brilliancy	9206 Mar 27 02:18	23°♄05'04	-0.6m
morning max el	9205 Mar 31 06:48	22°♄32'56	20°55'07	desc. node	9206 Mar 27 17:43	24°♄01'36	
	9205 Apr 06 16:20	0°♄			9206 Mar 31 17:59	0°♄	
desc. node	9205 Apr 09 20:50	4°♄14'55		morning set	9206 Apr 09 09:37	13°♄10'51	
	9205 Apr 27 09:02	0°♄			9206 Apr 20 04:21	0°♄	
morning set	9205 Apr 30 11:37	4°♄49'13		max. Earth dist.	9206 Apr 20 20:27	1°♄03'48	1.44489 AU
max. Earth dist.	9205 May 08 09:15	17°♄24'09	1.42947 AU				
superior conj	9205 May 15 08:30	28°♄57'17	-2°04'20	superior conj	9206 Apr 25 16:57	8°♄49'59	-2°12'27
minimum elong	9205 May 15 13:25	29°♄18'06	2°04'18	minimum elong	9206 Apr 25 16:37	8°♄48'37	2°12'38
	9205 May 15 23:18	0°♄			9206 May 08 11:37	0°♄	
evening rise	9205 May 27 04:24	19°♄36'08		evening rise	9206 May 09 06:13	1°♄18'44	
asc. node	9205 Jun 02 11:36	0°♄43'35		asc. node	9206 May 20 08:39	19°♄44'31	
	9205 Jun 02 01:30	0°♄		evening max el	9206 May 27 10:13	29°♄02'17	18°11'08
evening max el	9205 Jun 12 20:40	15°♄42'03	18°05'14		9206 May 28 11:08	0°♄	
retrograde	9205 Jun 19 11:23	19°♄05'27		retrograde	9206 Jun 02 19:12	2°♄23'52	
evening set	9205 Jun 22 00:55	18°♄34'46		evening set	9206 Jun 05 16:21	1°♄40'18	
inferior conj	9205 Jun 28 15:53	13°♄35'23	2°12'31		9206 Jun 08 03:22	30°♄	
minimum elong	9205 Jun 28 18:50	13°♄28'12	2°11'25	inferior conj	9206 Jun 11 18:10	26°♄22'33	2°54'24
min. Earth dist.	9205 Jul 01 19:55	10°♄31'40	0.61049 AU	minimum elong	9206 Jun 11 20:28	26°♄16'13	2°53'40
morning rise	9205 Jul 05 10:14	7°♄37'19		min. Earth dist.	9206 Jun 14 10:09	23°♄27'37	0.63238 AU
desc. node	9205 Jul 06 20:22	6°♄46'20		morning rise	9206 Jun 17 23:03	20°♄10'42	
direct	9205 Jul 12 01:24	5°♄24'09		desc. node	9206 Jun 23 17:26	17°♄38'54	
morning max el	9205 Jul 26 08:01	13°♄23'48	27°54'19	direct	9206 Jun 24 16:54	17°♄35'47	
	9205 Aug 08 14:24	0°♄		morning max el	9206 Jul 08 15:56	25°♄38'53	27°47'56
	9205 Aug 25 21:32	0°♄			9206 Jul 12 15:57	0°♄	
morning set	9205 Aug 28 08:00	4°♄56'48			9206 Aug 02 03:06	0°♄	
asc. node	9205 Aug 29 11:13	7°♄18'26		morning set	9206 Aug 12 04:52	18°♄51'04	
max. Earth dist.	9205 Sep 03 04:55	17°♄29'12	1.31776 AU	asc. node	9206 Aug 16 08:07	27°♄21'47	
				max. Earth dist.	9206 Aug 17 08:06	29°♄28'41	1.32471 AU
					9206 Aug 17 14:00	0°♄	
superior conj	9205 Sep 04 15:43	20°♄40'28	0°58'59	superior conj	9206 Aug 19 23:24	5°♄08'35	0°35'57
minimum elong	9205 Sep 04 13:33	20°♄28'32	0°58'33	minimum elong	9206 Aug 19 21:48	4°♄59'56	0°35'30
	9205 Sep 08 21:08	0°♄		evening rise	9206 Aug 26 21:21	20°♄09'09	
evening rise	9205 Sep 11 09:47	5°♄29'27			9206 Aug 31 15:30	0°♄	
	9205 Sep 24 04:47	0°♄					
desc. node	9205 Oct 02 18:52	12°♄19'41		evening max el	9206 Sep 19 07:08	28°♄07'03	23°28'35
evening max el	9205 Oct 07 19:53	17°♄50'01	25°05'47	desc. node	9206 Sep 19 16:01	28°♄28'17	
retrograde	9205 Oct 21 16:44	24°♄49'13			9206 Sep 21 09:18	0°♄	

retrograde	9206 Oct 02 19:17	4°♍51'46			9207 Aug 25 01:48	0°♌	
evening set	9206 Oct 07 02:18	4°♍11'35		evening max el	9207 Aug 31 21:21	8°♌21'00	21°50'19
min. Earth dist.	9206 Oct 13 17:05	1°♍04'43	0.55579 AU	desc. node	9207 Sep 06 13:10	12°♌41'55	
inferior conj	9206 Oct 15 13:45	29°♌58'45	-5°38'33	retrograde	9207 Sep 13 10:17	14°♌34'47	
minimum elong	9206 Oct 15 12:05	0°♍01'13	5°38'21	evening set	9207 Sep 16 06:59	14°♌16'24	
	9206 Oct 15 12:55	30°♋♌		inferior conj	9207 Sep 25 09:12	10°♌17'33	-4°58'54
morning rise	9206 Oct 23 23:51	26°♌05'54		minimum elong	9207 Sep 25 00:38	10°♌29'31	4°57'09
direct	9206 Oct 26 21:07	25°♌45'32		min. Earth dist.	9207 Sep 25 00:55	10°♌29'08	0.54739 AU
	9206 Nov 05 16:18	0°♍		morning rise	9207 Oct 03 19:33	6°♌29'14	
morning max el	9206 Nov 06 12:50	0°♍46'27	20°21'08	direct	9207 Oct 07 08:04	6°♌02'02	
asc. node	9206 Nov 12 08:03	7°♍38'47		morning max el	9207 Oct 19 12:13	11°♌47'08	21°52'59
	9206 Nov 24 18:48	0°♋		asc. node	9207 Oct 30 05:00	25°♌44'12	
morning set	9206 Nov 25 02:19	0°♋38'31			9207 Nov 01 16:18	0°♍	
				morning set	9207 Nov 09 12:14	15°♍25'23	
superior conj	9206 Dec 02 16:03	16°♋12'01	1°30'46		9207 Nov 16 09:21	0°♋	
minimum elong	9206 Dec 02 18:13	16°♋22'56	1°30'52				
max. Earth dist.	9206 Dec 08 01:57	26°♋52'12	1.36463 AU	superior conj	9207 Nov 16 15:52	0°♋34'16	1°39'04
	9206 Dec 09 17:34	0°♋		minimum elong	9207 Nov 16 16:46	0°♋39'00	1°39'17
evening rise	9206 Dec 11 22:15	4°♋03'57		max. Earth dist.	9207 Nov 20 15:03	8°♋45'57	1.34624 AU
desc. node	9206 Dec 16 14:43	12°♋22'54		evening rise	9207 Nov 24 23:00	17°♋18'56	
	9206 Dec 27 13:24	0°♋			9207 Dec 01 21:20	0°♋	
evening max el	9207 Jan 16 12:16	25°♋25'33	25°56'17	desc. node	9207 Dec 03 11:44	2°♋45'13	
	9207 Jan 22 00:02	0°♋			9207 Dec 21 21:27	0°♋	
retrograde	9207 Jan 29 01:37	2°♋35'20		evening max el	9207 Dec 30 01:42	9°♋07'27	26°51'28
evening set	9207 Feb 04 03:46	0°♋06'06		retrograde	9208 Jan 12 06:03	16°♋26'51	
	9207 Feb 04 06:40	30°♋		evening set	9208 Jan 18 19:34	13°♋52'10	
asc. node	9207 Feb 08 07:10	25°♋41'59		min. Earth dist.	9208 Jan 22 20:04	9°♋53'17	0.65850 AU
min. Earth dist.	9207 Feb 08 10:09	25°♋32'48	0.67082 AU	inferior conj	9208 Jan 24 19:50	7°♋34'41	-0°27'05
inferior conj	9207 Feb 09 22:12	23°♋39'48	0°32'01	minimum elong	9208 Jan 24 20:35	7°♋32'28	0°26'30
minimum elong	9207 Feb 09 21:24	23°♋42'21	0°31'52	asc. node	9208 Jan 26 04:17	6°♋01'57	
morning rise	9207 Feb 15 15:37	17°♋50'28		morning rise	9208 Jan 30 22:43	1°♋56'45	
direct	9207 Feb 18 21:16	16°♋50'37		direct	9208 Feb 02 18:34	1°♋12'53	
morning max el	9207 Feb 25 15:21	20°♋31'16	18°50'50	morning max el	9208 Feb 09 05:15	4°♋38'39	18°12'48
	9207 Mar 05 05:15	0°♋			9208 Feb 26 15:36	0°♋	
desc. node	9207 Mar 14 14:34	14°♋10'03		morning set	9208 Feb 28 05:30	2°♋32'57	
morning set	9207 Mar 19 18:02	22°♋10'30		desc. node	9208 Feb 29 11:26	4°♋33'40	
	9207 Mar 24 18:23	0°♋					
max. Earth dist.	9207 Apr 03 13:21	15°♋18'10	1.45388 AU	superior conj	9208 Mar 14 10:24	26°♋45'49	-1°30'46
				minimum elong	9208 Mar 14 00:59	26°♋08'50	1°29'43
superior conj	9207 Apr 05 04:52	17°♋53'13	-2°01'14		9208 Mar 16 11:56	0°♋	
minimum elong	9207 Apr 04 21:29	17°♋24'15	2°00'53	max. Earth dist.	9208 Mar 16 09:09	29°♋49'04	1.45551 AU
	9207 Apr 12 20:45	0°♋		evening rise	9208 Mar 30 12:40	21°♋52'59	
evening rise	9207 Apr 20 08:50	12°♋02'34			9208 Apr 04 17:50	0°♋	
	9207 May 01 13:45	0°♋		greatest brilliancy	9208 Apr 11 05:21	9°♋58'26	-0.7m
asc. node	9207 May 07 05:44	8°♋13'54		asc. node	9208 Apr 23 02:52	26°♋01'11	
evening max el	9207 May 10 22:33	12°♋34'35	18°35'14	evening max el	9208 Apr 23 07:13	26°♋12'17	19°16'35
retrograde	9207 May 17 11:07	16°♋07'53			9208 Apr 28 23:49	0°♋	
evening set	9207 May 20 15:53	15°♋10'02		retrograde	9208 Apr 30 07:42	0°♋09'49	
inferior conj	9207 May 26 08:26	9°♋35'17	3°15'46		9208 May 01 14:58	30°♋♌	
minimum elong	9207 May 26 09:32	9°♋31'59	3°15'25	evening set	9208 May 03 20:31	28°♋56'57	
min. Earth dist.	9207 May 28 09:28	7°♋07'23	0.65149 AU	inferior conj	9208 May 09 07:12	23°♋06'42	3°20'59
morning rise	9207 Jun 01 02:22	3°♋17'24		minimum elong	9208 May 09 07:03	23°♋07'13	3°20'46
direct	9207 Jun 07 16:15	0°♋32'22		min. Earth dist.	9208 May 10 16:58	21°♋17'06	0.66656 AU
desc. node	9207 Jun 10 14:28	1°♋00'44		morning rise	9208 May 14 17:11	16°♋47'35	
morning max el	9207 Jun 21 02:09	8°♋26'38	27°07'34	direct	9208 May 20 22:04	14°♋04'05	
	9207 Jul 07 20:29	0°♋		desc. node	9208 May 27 11:27	16°♋26'06	
	9207 Jul 25 11:59	0°♋		morning max el	9208 Jun 02 12:31	21°♋35'40	26°01'04
morning set	9207 Jul 26 16:12	2°♋15'19			9208 Jun 09 19:53	0°♋	
max. Earth dist.	9207 Jul 31 02:32	11°♋02'57	1.33665 AU		9208 Jun 30 01:51	0°♋	
asc. node	9207 Aug 03 05:03	17°♋27'44		morning set	9208 Jul 08 14:25	15°♋00'14	
				max. Earth dist.	9208 Jul 12 10:33	22°♋15'09	1.35330 AU
superior conj	9207 Aug 04 02:01	19°♋17'52	0°08'45		9208 Jul 16 09:02	0°♋	
minimum elong	9207 Aug 04 01:34	19°♋15'31	0°08'27				
behind sun begin	9207 Aug 03 20:46	18°♋50'14		superior conj	9208 Jul 17 21:01	3°♋01'36	-0°21'47
behind sun end	9207 Aug 04 06:22	19°♋40'50		minimum elong	9208 Jul 17 22:18	3°♋08'08	0°21'47
	9207 Aug 09 02:42	0°♋		asc. node	9208 Jul 20 02:00	7°♋32'38	
evening rise	9207 Aug 11 08:06	4°♋43'20		evening rise	9208 Jul 25 16:00	19°♋06'17	

	9208 Jul 31 03:04	0° \cap		evening rise	9209 Jul 09 18:36	3° Ω 10'19	
evening max el	9208 Aug 12 22:30	19° \cap 04'58	20°25'00		9209 Jul 25 23:56	0° \cap	
desc. node	9208 Aug 23 10:19	24° \cap 31'32		evening max el	9209 Jul 26 13:08	0° \cap 33'36	19°19'21
retrograde	9208 Aug 23 22:42	24° \cap 32'14		retrograde	9209 Aug 04 20:46	5° \cap 10'34	
evening set	9208 Aug 25 23:01	24° \cap 22'03		evening set	9209 Aug 06 17:13	5° \cap 00'25	
inferior conj	9208 Sep 04 02:27	20° \cap 24'37	-3°27'46	desc. node	9209 Aug 10 07:29	3° \cap 48'35	
minimum elong	9208 Sep 03 17:30	20° \cap 37'40	3°24'53	inferior conj	9209 Aug 15 07:44	0° \cap 51'49	-1°32'43
min. Earth dist.	9208 Sep 05 10:06	19° \cap 38'33	0.54819 AU	minimum elong	9209 Aug 15 03:36	0° \cap 58'37	1°31'16
morning rise	9208 Sep 12 11:23	16° \cap 20'10			9209 Aug 16 15:06	30° $\kappa\delta$	
direct	9208 Sep 16 17:09	15° \cap 41'34		min. Earth dist.	9209 Aug 17 22:49	29° Ω 08'25	0.55831 AU
morning max el	9208 Sep 30 02:29	22° \cap 10'54	23°38'04	morning rise	9209 Aug 23 11:13	26° Ω 13'50	
	9208 Oct 06 22:49	0° $\underline{\Omega}$		direct	9209 Aug 28 12:28	25° Ω 15'37	
asc. node	9208 Oct 16 01:56	14° $\underline{\Omega}$ 29'25			9209 Sep 08 21:20	0° \cap	
morning set	9208 Oct 23 23:52	0° \cap 15'19		morning max el	9209 Sep 11 14:47	2° \cap 23'11	25°21'50
	9208 Oct 23 20:59	0° \cap			9209 Sep 30 23:56	0° $\underline{\Omega}$	
				asc. node	9209 Oct 02 22:52	3° $\underline{\Omega}$ 43'39	
superior conj	9208 Oct 30 21:58	15° \cap 13'27	1°40'34	morning set	9209 Oct 08 11:27	15° $\underline{\Omega}$ 02'08	
minimum elong	9208 Oct 30 21:38	15° \cap 11'41	1°40'44				
max. Earth dist.	9208 Nov 02 12:18	20° \cap 47'37	1.33180 AU	superior conj	9209 Oct 15 07:51	0° \cap 00'59	1°35'55
	9208 Nov 06 22:55	0° \propto		minimum elong	9209 Oct 15 06:31	29° $\underline{\Omega}$ 53'39	1°35'56
evening rise	9208 Nov 07 12:17	1° \propto 07'07			9209 Oct 15 07:40	0° \cap	
desc. node	9208 Nov 19 08:49	22° \propto 50'02		max. Earth dist.	9209 Oct 16 16:40	3° \cap 01'13	1.32185 AU
	9208 Nov 23 20:20	0° \propto		evening rise	9209 Oct 22 10:44	15° \cap 18'50	
evening max el	9208 Dec 11 14:20	22° \propto 32'14	27°23'53		9209 Oct 29 23:12	0° \propto	
retrograde	9208 Dec 25 04:16	29° \propto 52'55		desc. node	9209 Nov 06 05:55	12° \propto 28'48	
evening set	9209 Jan 01 02:25	27° \propto 19'11			9209 Nov 18 20:50	0° \propto	
min. Earth dist.	9209 Jan 04 21:54	23° \propto 53'06	0.64275 AU	evening max el	9209 Nov 24 00:12	5° \propto 26'48	27°27'24
inferior conj	9209 Jan 07 09:16	21° \propto 16'36	-1°33'19	retrograde	9209 Dec 07 19:38	12° \propto 43'32	
minimum elong	9209 Jan 07 12:10	21° \propto 08'56	1°31'50	evening set	9209 Dec 14 21:21	10° \propto 19'44	
asc. node	9209 Jan 12 01:23	16° \propto 57'55		min. Earth dist.	9209 Dec 18 13:59	7° \propto 21'38	0.62399 AU
morning rise	9209 Jan 13 23:38	15° \propto 52'57		inferior conj	9209 Dec 21 11:33	4° \propto 37'53	-2°44'33
direct	9209 Jan 16 11:34	15° \propto 21'18		minimum elong	9209 Dec 21 16:53	4° \propto 25'17	2°42'15
morning max el	9209 Jan 22 22:21	18° \propto 42'57	17°51'44		9209 Dec 27 11:10	30° $\kappa\propto$	
	9209 Jan 31 06:58	0° \approx		morning rise	9209 Dec 28 14:42	29° \propto 31'34	
morning set	9209 Feb 08 21:40	14° \approx 19'39		asc. node	9209 Dec 29 22:27	29° \propto 12'30	
desc. node	9209 Feb 15 08:19	25° \approx 08'03		direct	9209 Dec 30 21:04	29° \propto 08'26	
	9209 Feb 18 07:10	0° \propto			9210 Jan 03 05:12	0° \propto	
				morning max el	9210 Jan 06 15:31	2° \propto 35'31	17°48'22
superior conj	9209 Feb 22 04:38	6° \propto 19'35	-0°48'46	morning set	9210 Jan 22 12:55	27° \propto 12'28	
minimum elong	9209 Feb 21 23:10	5° \propto 57'34	0°47'52		9210 Jan 24 02:42	0° \approx	
max. Earth dist.	9209 Feb 27 04:35	14° \propto 18'05	1.44971 AU	desc. node	9210 Feb 02 05:15	15° \approx 49'11	
	9209 Mar 09 06:31	0° Υ					
evening rise	9209 Mar 10 01:53	1° Υ 14'20		superior conj	9210 Feb 02 22:50	17° \approx 03'27	-0°05'28
greatest brilliancy	9209 Mar 24 18:37	23° Υ 20'54	-0.6m	minimum elong	9210 Feb 02 22:20	17° \approx 01'18	0°05'11
	9209 Mar 29 10:48	0° \propto		behind sun begin	9210 Feb 02 13:50	16° \approx 25'28	
evening max el	9209 Apr 06 10:40	9° \propto 51'50	20°13'26	behind sun end	9210 Feb 03 06:49	17° \approx 37'03	
asc. node	9209 Apr 10 00:00	12° \propto 53'41		max. Earth dist.	9210 Feb 09 20:56	28° \approx 28'14	1.43719 AU
retrograde	9209 Apr 14 06:16	14° \propto 23'52			9210 Feb 10 19:43	0° \propto	
evening set	9209 Apr 18 03:54	12° \propto 55'44		evening rise	9210 Feb 17 15:07	10° \propto 44'16	
inferior conj	9209 Apr 23 11:36	6° \propto 51'48	3°13'10		9210 Mar 02 10:04	0° Υ	
minimum elong	9209 Apr 23 10:24	6° \propto 55'52	3°12'53	evening max el	9210 Mar 20 08:34	23° Υ 32'48	21°22'52
min. Earth dist.	9209 Apr 24 07:01	5° \propto 45'41	0.67718 AU	asc. node	9210 Mar 27 21:08	28° Υ 36'52	
morning rise	9209 Apr 28 16:40	0° \propto 34'19		retrograde	9210 Mar 29 04:38	28° Υ 45'32	
	9209 Apr 29 08:44	30° $\kappa\Upsilon$		evening set	9210 Apr 02 12:10	27° Υ 02'12	
direct	9209 May 04 09:33	28° Υ 01'48		inferior conj	9210 Apr 07 19:15	20° Υ 46'57	2°54'25
	9209 May 10 01:46	0° \propto		minimum elong	9210 Apr 07 17:21	20° Υ 53'34	2°53'58
desc. node	9209 May 14 08:25	3° \propto 24'28		min. Earth dist.	9210 Apr 08 01:29	20° Υ 25'16	0.68333 AU
morning max el	9209 May 15 22:03	4° \propto 56'09	24°37'52	morning rise	9210 Apr 12 22:20	14° Υ 33'00	
	9209 Jun 04 04:58	0° Π		direct	9210 Apr 18 01:47	12° Υ 18'03	
morning set	9209 Jun 20 18:48	26° Π 52'53		morning max el	9210 Apr 28 07:49	18° Υ 23'32	23°08'06
	9209 Jun 22 13:02	0° $\underline{\Omega}$		desc. node	9210 May 01 05:22	21° Υ 30'50	
max. Earth dist.	9209 Jun 24 09:44	3° $\underline{\Omega}$ 21'39	1.37383 AU		9210 May 08 01:00	0° \propto	
					9210 May 28 07:40	0° Π	
superior conj	9209 Jul 01 05:12	16° $\underline{\Omega}$ 10'58	-0°54'08	morning set	9210 Jun 01 23:56	7° Π 39'32	
minimum elong	9209 Jul 01 08:38	16° $\underline{\Omega}$ 27'36	0°53'49	max. Earth dist.	9210 Jun 06 05:51	14° Π 52'03	1.39639 AU
asc. node	9209 Jul 06 22:59	27° $\underline{\Omega}$ 31'57					
	9209 Jul 08 04:33	0° Ω		superior conj	9210 Jun 13 22:40	28° Π 36'56	-1°25'51

minimum elong	9210 Jun 14 04:05	29° Π 01'53	1°25'23		9211 May 20 22:21	0° Π	
	9210 Jun 14 16:39	0° \mathfrak{D}					
evening rise	9210 Jun 23 12:53	16° \mathfrak{D} 47'37		superior conj	9211 May 26 20:46	10° Π 08'29	-1°52'58
asc. node	9210 Jun 23 20:00	17° \mathfrak{D} 21'48		minimum elong	9211 May 27 02:45	10° Π 34'37	1°52'41
	9210 Jun 30 15:13	0° Ω		evening rise	9211 Jun 06 18:59	29° Π 48'06	
evening max el	9210 Jul 09 15:06	12° Ω 45'40	18°34'44		9211 Jun 06 21:35	0° \mathfrak{D}	
retrograde	9210 Jul 17 12:34	16° Ω 41'43		asc. node	9211 Jun 10 17:01	6° \mathfrak{D} 56'56	
evening set	9210 Jul 19 14:10	16° Ω 26'25		evening max el	9211 Jun 23 00:27	25° \mathfrak{D} 31'21	18°10'26
inferior conj	9210 Jul 27 09:26	11° Ω 59'08	0°14'28	retrograde	9211 Jun 29 22:54	29° \mathfrak{D} 01'55	
minimum elong	9210 Jul 27 09:58	11° Ω 58'06	0°14'03	evening set	9211 Jul 02 08:11	28° \mathfrak{D} 37'32	
transit middle	9210 Jul 27 09:58	11° Ω 58'06	0°14'03	inferior conj	9211 Jul 09 08:31	23° \mathfrak{D} 49'32	1°37'15
transit begin	9210 Jul 27 08:12	12° Ω 01'31		minimum elong	9211 Jul 09 11:14	23° \mathfrak{D} 43'27	1°36'07
transit end	9210 Jul 27 11:44	11° Ω 54'42		min. Earth dist.	9211 Jul 12 16:44	20° \mathfrak{D} 51'09	0.59750 AU
desc. node	9210 Jul 28 04:36	11° Ω 22'07		desc. node	9211 Jul 15 01:43	18° \mathfrak{D} 59'26	
min. Earth dist.	9210 Jul 30 16:31	9° Ω 28'18	0.57582 AU	morning rise	9211 Jul 16 11:17	18° \mathfrak{D} 04'29	
morning rise	9210 Aug 04 02:13	6° Ω 44'08		direct	9211 Jul 22 21:48	16° \mathfrak{D} 07'32	
direct	9210 Aug 09 22:38	5° Ω 17'53		morning max el	9211 Aug 06 06:06	24° \mathfrak{D} 00'01	27°40'43
morning max el	9210 Aug 24 07:06	12° Ω 53'00	26°47'08		9211 Aug 11 16:16	0° Ω	
	9210 Sep 06 18:48	0° \mathfrak{M}			9211 Aug 31 00:50	0° \mathfrak{M}	
asc. node	9210 Sep 19 19:48	23° \mathfrak{M} 19'22		asc. node	9211 Sep 06 16:43	13° \mathfrak{M} 09'58	
morning set	9210 Sep 22 21:19	29° \mathfrak{M} 41'14		morning set	9211 Sep 07 03:47	14° \mathfrak{M} 07'40	
	9210 Sep 23 00:51	0° \mathfrak{L}		max. Earth dist.	9211 Sep 13 11:15	27° \mathfrak{M} 46'55	1.31597 AU
superior conj	9210 Sep 29 19:30	14° \mathfrak{L} 50'42	1°25'38	superior conj	9211 Sep 14 07:02	29° \mathfrak{M} 36'35	1°10'09
minimum elong	9210 Sep 29 17:30	14° \mathfrak{L} 39'35	1°25'28	minimum elong	9211 Sep 14 04:47	29° \mathfrak{M} 24'08	1°09'48
max. Earth dist.	9210 Sep 30 01:26	15° \mathfrak{L} 23'44	1.31659 AU		9211 Sep 14 11:15	0° \mathfrak{L}	
evening rise	9210 Oct 06 15:38	29° \mathfrak{L} 46'51		evening rise	9211 Sep 21 00:42	14° \mathfrak{L} 24'30	
	9210 Oct 06 18:07	0° \mathfrak{M}			9211 Sep 28 18:23	0° \mathfrak{M}	
	9210 Oct 23 02:57	0° \mathfrak{J}		desc. node	9211 Oct 11 00:09	19° \mathfrak{M} 43'16	
desc. node	9210 Oct 24 03:02	1° \mathfrak{J} 31'14		evening max el	9211 Oct 19 02:12	29° \mathfrak{M} 02'22	25°54'37
evening max el	9210 Nov 06 04:56	17° \mathfrak{J} 39'28	26°57'36		9211 Oct 20 03:17	0° \mathfrak{J}	
retrograde	9210 Nov 20 02:54	24° \mathfrak{J} 49'19		retrograde	9211 Nov 02 00:10	6° \mathfrak{J} 04'57	
evening set	9210 Nov 27 00:32	22° \mathfrak{J} 46'00		evening set	9211 Nov 08 07:15	4° \mathfrak{J} 31'32	
min. Earth dist.	9210 Nov 30 19:29	20° \mathfrak{J} 06'30	0.60333 AU	min. Earth dist.	9211 Nov 12 14:53	1° \mathfrak{J} 56'07	0.58255 AU
inferior conj	9210 Dec 03 23:20	17° \mathfrak{J} 29'44	-3°56'04		9211 Nov 15 07:43	30° \mathfrak{R} \mathfrak{M}	
minimum elong	9210 Dec 04 06:37	17° \mathfrak{J} 14'38	3°53'33	inferior conj	9211 Nov 15 17:12	29° \mathfrak{M} 42'50	-4°58'29
morning rise	9210 Dec 11 15:12	12° \mathfrak{J} 43'37		minimum elong	9211 Nov 16 00:17	29° \mathfrak{M} 30'04	4°56'49
direct	9210 Dec 13 19:19	12° \mathfrak{J} 25'24		morning rise	9211 Nov 23 19:39	25° \mathfrak{M} 19'11	
asc. node	9210 Dec 16 19:30	13° \mathfrak{J} 01'59		direct	9211 Nov 26 02:09	25° \mathfrak{M} 02'32	
morning max el	9210 Dec 21 05:16	16° \mathfrak{J} 06'52	18°03'45	asc. node	9211 Dec 03 16:32	28° \mathfrak{M} 22'22	
	9210 Dec 30 21:51	0° \mathfrak{Z}		morning max el	9211 Dec 04 11:59	29° \mathfrak{M} 07'10	18°39'34
morning set	9211 Jan 05 20:48	10° \mathfrak{Z} 51'49		morning set	9211 Dec 05 08:50	0° \mathfrak{J}	
					9211 Dec 20 16:14	25° \mathfrak{J} 02'56	
superior conj	9211 Jan 15 17:53	28° \mathfrak{Z} 57'42	0°32'21		9211 Dec 23 05:18	0° \mathfrak{Z}	
minimum elong	9211 Jan 15 20:20	29° \mathfrak{Z} 08'35	0°32'14	superior conj	9211 Dec 29 09:44	11° \mathfrak{Z} 51'02	1°01'49
	9211 Jan 16 07:56	0° \approx		minimum elong	9211 Dec 29 13:01	12° \mathfrak{Z} 06'25	1°01'39
desc. node	9211 Jan 20 02:10	6° \approx 33'06		max. Earth dist.	9212 Jan 05 16:37	25° \mathfrak{Z} 03'58	1.39842 AU
max. Earth dist.	9211 Jan 23 08:46	12° \approx 05'51	1.41941 AU	desc. node	9212 Jan 06 23:06	27° \mathfrak{Z} 16'32	
evening rise	9211 Jan 28 18:18	20° \approx 55'39			9212 Jan 08 13:15	0° \approx	
	9211 Feb 03 13:01	0° \mathfrak{H}		evening rise	9212 Jan 09 18:29	2° \approx 03'39	
	9211 Feb 24 17:04	0° \mathfrak{Y}			9212 Jan 27 20:05	0° \mathfrak{H}	
evening max el	9211 Mar 03 01:51	7° \mathfrak{Y} 16'00	22°40'32	evening max el	9212 Feb 13 16:16	21° \mathfrak{H} 02'47	24°00'43
retrograde	9211 Mar 13 01:02	13° \mathfrak{Y} 10'07		retrograde	9212 Feb 24 18:13	27° \mathfrak{H} 33'31	
asc. node	9211 Mar 14 18:17	12° \mathfrak{Y} 55'27		asc. node	9212 Feb 29 15:25	25° \mathfrak{H} 40'52	
evening set	9211 Mar 17 19:41	11° \mathfrak{Y} 11'53		evening set	9212 Mar 01 00:59	25° \mathfrak{H} 21'16	
inferior conj	9211 Mar 23 04:07	4° \mathfrak{Y} 48'18	2°25'57	min. Earth dist.	9212 Mar 05 18:27	19° \mathfrak{H} 53'34	0.68280 AU
minimum elong	9211 Mar 23 01:53	4° \mathfrak{Y} 56'00	2°25'20	inferior conj	9212 Mar 06 12:19	18° \mathfrak{H} 53'00	1°48'29
min. Earth dist.	9211 Mar 22 22:02	5° \mathfrak{Y} 09'23	0.68516 AU	minimum elong	9212 Mar 06 10:14	19° \mathfrak{H} 00'04	1°47'51
	9211 Mar 26 22:18	30° \mathfrak{R} \mathfrak{H}		morning rise	9212 Mar 11 19:30	12° \mathfrak{H} 50'31	
morning rise	9211 Mar 28 07:57	28° \mathfrak{H} 39'22		direct	9212 Mar 15 19:53	11° \mathfrak{H} 19'05	
direct	9211 Apr 01 21:39	26° \mathfrak{H} 45'41		morning max el	9212 Mar 23 16:52	15° \mathfrak{H} 46'46	20°23'38
	9211 Apr 08 17:36	0° \mathfrak{Y}		desc. node	9212 Apr 03 23:10	29° \mathfrak{H} 57'00	
morning max el	9211 Apr 10 20:57	1° \mathfrak{Y} 58'59	21°41'00		9212 Apr 04 00:00	0° \mathfrak{Y}	
desc. node	9211 Apr 18 02:16	10° \mathfrak{Y} 26'02		morning set	9212 Apr 21 05:08	25° \mathfrak{Y} 42'45	
	9211 May 01 22:44	0° \mathfrak{B}			9212 Apr 23 23:18	0° \mathfrak{B}	
morning set	9211 May 13 01:51	17° \mathfrak{B} 10'27		max. Earth dist.	9212 Apr 30 13:56	10° \mathfrak{B} 28'14	1.43682 AU
max. Earth dist.	9211 May 19 06:03	27° \mathfrak{B} 12'14	1.41833 AU				

superior conj	9212 May 06 19:22	20° ♄ 37'31	-2°09'51	max. Earth dist.	9213 Apr 13 04:16	24° ♄ 26'16	1.44959 AU
minimum elong	9212 May 06 22:34	20° ♄ 50'47	2°09'59				
	9212 May 12 09:17	0° ♄		superior conj	9213 Apr 16 17:57	0° ♄ 05'38	-2°10'13
evening rise	9212 May 19 08:29	12° ♄ 02'08		minimum elong	9213 Apr 16 14:28	29° ♄ 51'44	2°10'16
asc. node	9212 May 27 14:02	26° ♄ 12'12			9213 Apr 16 16:32	0° ♄	
	9212 May 29 22:41	0° ♄		evening rise	9213 May 01 00:47	23° ♄ 20'29	
evening max el	9212 Jun 05 13:24	8° ♄ 41'14	18°05'28		9213 May 05 00:59	0° ♄	
retrograde	9212 Jun 12 00:18	12° ♄ 01'58		asc. node	9213 May 14 11:07	15° ♄ 00'59	
evening set	9212 Jun 14 17:12	11° ♄ 25'52		evening max el	9213 May 20 02:42	22° ♄ 07'16	18°19'11
inferior conj	9212 Jun 21 02:03	6° ♄ 18'12	2°33'06	retrograde	9213 May 26 12:13	25° ♄ 32'35	
minimum elong	9212 Jun 21 04:50	6° ♄ 11'01	2°32'09	evening set	9213 May 29 12:32	24° ♄ 43'03	
min. Earth dist.	9212 Jun 24 01:24	3° ♄ 15'57	0.62006 AU	inferior conj	9213 Jun 04 09:55	19° ♄ 17'36	3°05'41
morning rise	9212 Jun 27 14:26	0° ♄ 13'18		minimum elong	9213 Jun 04 11:44	19° ♄ 12'22	3°05'09
	9212 Jun 27 22:06	30° ♄ 11		min. Earth dist.	9213 Jun 06 19:36	16° ♄ 32'29	0.64088 AU
desc. node	9212 Jun 30 22:48	28° ♄ 25'33		morning rise	9213 Jun 10 09:46	13° ♄ 02'13	
direct	9212 Jul 04 07:39	27° ♄ 49'57		direct	9213 Jun 17 02:27	10° ♄ 21'46	
	9212 Jul 11 05:38	0° ♄		desc. node	9213 Jun 17 19:51	10° ♄ 23'30	
morning max el	9212 Jul 18 11:28	5° ♄ 51'30	27°56'15	morning max el	9213 Jun 30 20:56	18° ♄ 22'56	27°34'39
	9212 Aug 05 16:26	0° ♄			9213 Jul 10 15:25	0° ♄	
morning set	9212 Aug 21 04:48	28° ♄ 15'18			9213 Jul 29 14:28	0° ♄	
	9212 Aug 22 01:11	0° ♄		morning set	9213 Aug 04 22:01	11° ♄ 58'10	
asc. node	9212 Aug 23 13:36	3° ♄ 09'47		max. Earth dist.	9213 Aug 09 18:11	21° ♄ 49'13	1.32916 AU
max. Earth dist.	9212 Aug 26 18:07	9° ♄ 58'44	1.32012 AU	asc. node	9213 Aug 10 10:31	23° ♄ 14'51	
superior conj	9212 Aug 28 16:39	14° ♄ 12'30	0°49'46	superior conj	9213 Aug 12 22:27	28° ♄ 33'20	0°24'54
minimum elong	9212 Aug 28 14:39	14° ♄ 01'34	0°49'18	minimum elong	9213 Aug 12 21:16	28° ♄ 27'00	0°24'28
evening rise	9212 Sep 04 11:52	29° ♄ 05'00			9213 Aug 13 14:35	0° ♄	
	9212 Sep 04 22:09	0° ♄		evening rise	9213 Aug 19 23:21	13° ♄ 43'13	
	9212 Sep 21 13:23	0° ♄			9213 Aug 28 03:03	0° ♄	
desc. node	9212 Sep 26 21:18	6° ♄ 44'20		evening max el	9213 Sep 11 02:45	19° ♄ 47'11	22°45'56
evening max el	9212 Sep 29 15:39	9° ♄ 36'55	24°25'43	desc. node	9213 Sep 13 18:28	22° ♄ 08'02	
retrograde	9212 Oct 13 09:40	16° ♄ 30'59		retrograde	9213 Sep 24 07:06	26° ♄ 21'53	
evening set	9212 Oct 18 13:28	15° ♄ 32'05		evening set	9213 Sep 27 22:44	25° ♄ 52'39	
min. Earth dist.	9212 Oct 24 02:32	12° ♄ 42'09	0.56411 AU	min. Earth dist.	9213 Oct 05 10:44	22° ♄ 30'18	0.55114 AU
inferior conj	9212 Oct 26 14:39	11° ♄ 07'57	-5°36'06	inferior conj	9213 Oct 06 17:22	21° ♄ 46'31	-5°28'50
minimum elong	9212 Oct 26 17:22	11° ♄ 03'41	5°35'45	minimum elong	9213 Oct 06 12:20	21° ♄ 53'45	5°28'12
morning rise	9212 Nov 03 23:24	7° ♄ 06'13		morning rise	9213 Oct 15 03:51	17° ♄ 58'08	
direct	9212 Nov 06 13:52	6° ♄ 48'05		direct	9213 Oct 18 07:05	17° ♄ 35'29	
morning max el	9212 Nov 16 07:57	11° ♄ 25'17	19°37'35	morning max el	9213 Oct 29 14:52	22° ♄ 54'27	20°58'01
asc. node	9212 Nov 19 13:31	14° ♄ 58'43			9213 Nov 04 16:00	0° ♄	
	9212 Nov 28 22:25	0° ♄		asc. node	9213 Nov 06 10:29	2° ♄ 35'32	
morning set	9212 Dec 03 19:22	9° ♄ 33'49		morning set	9213 Nov 18 03:27	24° ♄ 16'34	
					9213 Nov 20 21:18	0° ♄	
superior conj	9212 Dec 11 17:19	25° ♄ 28'29	1°22'33	superior conj	9213 Nov 25 12:16	9° ♄ 37'35	1°35'10
minimum elong	9212 Dec 11 20:05	25° ♄ 42'08	1°22'33	minimum elong	9213 Nov 25 13:54	9° ♄ 46'02	1°35'19
	9212 Dec 14 00:59	0° ♄			9213 Nov 30 07:32	19° ♄ 17'32	1.35637 AU
max. Earth dist.	9212 Dec 17 22:39	7° ♄ 22'37	1.37661 AU	max. Earth dist.	9213 Dec 04 07:49	26° ♄ 58'29	
evening rise	9212 Dec 21 15:56	14° ♄ 06'55		evening rise	9213 Dec 05 23:07	0° ♄	
desc. node	9212 Dec 23 20:04	17° ♄ 55'06			9213 Dec 10 17:04	8° ♄ 24'42	
	9212 Dec 31 02:54	0° ♄		desc. node	9213 Dec 24 12:05	0° ♄	
	9213 Jan 21 16:46	0° ♄			9214 Jan 08 18:37	18° ♄ 36'51	26°21'56
evening max el	9213 Jan 26 05:27	4° ♄ 50'56	25°16'54	evening max el	9214 Jan 21 15:09	25° ♄ 52'36	
retrograde	9213 Feb 07 07:09	11° ♄ 49'45		retrograde	9214 Jan 27 22:23	23° ♄ 20'05	
evening set	9213 Feb 13 02:27	9° ♄ 25'30		evening set	9214 Feb 01 02:03	19° ♄ 01'41	0.66606 AU
asc. node	9213 Feb 15 12:33	6° ♄ 59'39		min. Earth dist.	9214 Feb 02 09:41	17° ♄ 25'38	
min. Earth dist.	9213 Feb 17 12:30	4° ♄ 32'35	0.67636 AU	asc. node	9214 Feb 02 19:12	16° ♄ 56'36	0°07'52
inferior conj	9213 Feb 18 17:59	2° ♄ 56'58	1°02'22	inferior conj	9214 Feb 02 18:59	16° ♄ 57'16	0°08'00
minimum elong	9213 Feb 18 16:33	3° ♄ 01'39	1°01'57	minimum elong	9214 Feb 02 18:59	16° ♄ 57'16	0°08'00
	9213 Feb 21 02:52	30° ♄ 11		transit middle	9214 Feb 02 16:28	17° ♄ 04'54	
morning rise	9213 Feb 24 07:00	27° ♄ 02'30		transit begin	9214 Feb 02 21:29	16° ♄ 49'39	
direct	9213 Feb 27 19:03	25° ♄ 52'02		transit end	9214 Feb 08 16:24	11° ♄ 12'02	
morning max el	9213 Mar 06 20:47	29° ♄ 46'06	19°20'11	morning rise	9214 Feb 11 17:35	10° ♄ 19'36	
	9213 Mar 07 02:22	0° ♄		direct	9214 Feb 18 07:42	13° ♄ 52'38	18°32'33
greatest brilliancy	9213 Mar 19 18:07	16° ♄ 46'34	-0.7m	morning max el	9214 Mar 02 05:29	0° ♄	
desc. node	9213 Mar 21 20:01	19° ♄ 53'39			9214 Mar 08 16:53	10° ♄ 08'56	
	9213 Mar 28 11:02	0° ♄		desc. node	9214 Mar 10 23:27	13° ♄ 44'28	
morning set	9213 Mar 31 04:40	4° ♄ 12'44		morning set			

	9214 Mar 21 07:23	0°♿		morning rise	9215 Jan 23 21:16	25°♿14'56	
				direct	9215 Jan 26 13:23	24°♿36'51	
superior conj	9214 Mar 27 00:51	8°♿57'58 -1°50'21		morning max el	9215 Feb 01 23:22	28°♿00'03	18°01'41
minimum elong	9214 Mar 26 15:42	8°♿22'12 1°49'38			9215 Feb 03 19:37	0°♿	
max. Earth dist.	9214 Mar 26 22:23	8°♿48'20 1.45545 AU		morning set	9215 Feb 19 23:41	24°♿44'57	
	9214 Apr 09 09:52	0°♿			9215 Feb 23 04:30	0°♿	
evening rise	9214 Apr 11 17:15	3°♿39'36		desc. node	9215 Feb 23 13:45	0°♿37'50	
greatest brilliancy	9214 Apr 20 12:18	17°♿35'48 -0.8m					
	9214 Apr 28 19:57	0°♿		superior conj	9215 Mar 06 09:53	18°♿03'42 -1°13'44	
asc. node	9214 May 01 08:14	3°♿13'49		minimum elong	9215 Mar 06 01:40	17°♿31'11 1°12'39	
evening max el	9214 May 03 13:39	5°♿42'03 18°50'50		max. Earth dist.	9215 Mar 09 18:00	23°♿19'26 1.45392 AU	
retrograde	9214 May 10 06:32	9°♿24'39			9215 Mar 14 00:29	0°♿	
evening set	9214 May 13 14:33	8°♿20'39		evening rise	9215 Mar 22 13:26	13°♿13'54	
inferior conj	9214 May 19 04:14	2°♿39'09 3°19'45			9215 Apr 02 12:18	0°♿	
minimum elong	9214 May 19 04:46	2°♿37'27 3°19'29		greatest brilliancy	9215 Apr 05 03:27	3°♿56'10 -0.7m	
min. Earth dist.	9214 May 20 22:45	0°♿26'17 0.65836 AU		evening max el	9215 Apr 16 20:19	19°♿21'22 19°39'03	
	9214 May 21 07:23	30°♿		asc. node	9215 Apr 18 05:23	20°♿39'51	
morning rise	9214 May 24 18:22	26°♿20'00		retrograde	9215 Apr 24 04:12	23°♿32'25	
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desc. node	9214 Jun 04 16:52	24°♿41'25		inferior conj	9215 May 03 05:44	16°♿17'10 3°19'06	
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morning max el	9214 Jun 13 07:34	1°♿21'33 26°41'55		min. Earth dist.	9215 May 04 09:22	14°♿45'27 0.67168 AU	
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	9214 Jul 21 17:07	0°♿		desc. node	9215 May 22 13:51	10°♿49'52	
max. Earth dist.	9214 Jul 23 08:04	3°♿12'06 1.34313 AU		morning max el	9215 May 26 17:25	14°♿35'53 25°26'57	
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superior conj	9214 Jul 27 22:08	12°♿32'15 -0°03'53			9215 Jun 27 13:28	0°♿	
minimum elong	9214 Jul 27 22:22	12°♿33'26 0°04'05		morning set	9215 Jul 01 19:29	7°♿31'02	
behind sun begin	9214 Jul 27 16:44	12°♿04'16		max. Earth dist.	9215 Jul 05 11:22	14°♿16'29 1.36167 AU	
behind sun end	9214 Jul 28 03:59	13°♿02'39					
asc. node	9214 Jul 28 07:27	13°♿20'43		superior conj	9215 Jul 11 12:58	26°♿02'23 -0°35'25	
evening rise	9214 Aug 04 09:07	28°♿12'50		minimum elong	9215 Jul 11 15:08	26°♿13'10 0°35'16	
	9214 Aug 05 05:43	0°♿			9215 Jul 13 12:19	0°♿	
	9214 Aug 23 16:45	0°♿		asc. node	9215 Jul 15 04:25	3°♿23'32	
evening max el	9214 Aug 23 20:52	0°♿10'13 21°11'55		evening rise	9215 Jul 19 15:04	12°♿28'08	
desc. node	9214 Aug 31 15:38	5°♿22'56			9215 Jul 28 20:44	0°♿	
retrograde	9214 Sep 04 19:47	6°♿05'48		evening max el	9215 Aug 06 03:55	11°♿12'45 19°54'31	
evening set	9214 Sep 07 05:17	5°♿52'27		retrograde	9215 Aug 16 10:22	16°♿17'27	
inferior conj	9214 Sep 16 10:01	1°♿55'59 -4°25'22		evening set	9215 Aug 18 07:30	16°♿08'00	
minimum elong	9214 Sep 16 00:21	2°♿09'35 4°22'51		desc. node	9215 Aug 18 12:49	16°♿05'41	
min. Earth dist.	9214 Sep 16 19:10	1°♿43'05 0.54650 AU		inferior conj	9215 Aug 27 06:50	12°♿07'33 -2°39'45	
	9214 Sep 19 23:03	30°♿		minimum elong	9215 Aug 26 23:36	12°♿18'31 2°37'13	
morning rise	9214 Sep 24 19:58	28°♿02'59		min. Earth dist.	9215 Aug 29 05:43	10°♿56'22 0.55147 AU	
direct	9214 Sep 28 15:23	27°♿31'43		morning rise	9215 Sep 04 14:03	7°♿50'15	
	9214 Oct 06 17:28	0°♿		direct	9215 Sep 09 04:16	7°♿04'05	
morning max el	9214 Oct 11 09:42	3°♿36'53 22°36'51		morning max el	9215 Sep 22 21:58	13°♿50'54 24°23'24	
asc. node	9214 Oct 24 07:25	20°♿58'42			9215 Oct 05 11:40	0°♿	
	9214 Oct 29 03:57	0°♿		asc. node	9215 Oct 11 04:21	9°♿57'03	
morning set	9214 Nov 02 14:17	9°♿04'47		morning set	9215 Oct 18 02:04	23°♿53'20	
					9215 Oct 20 21:59	0°♿	
superior conj	9214 Nov 09 15:05	24°♿07'51 1°40'29		superior conj	9215 Oct 24 23:01	8°♿50'49 1°39'17	
minimum elong	9214 Nov 09 15:27	24°♿09'47 1°40'42		minimum elong	9215 Oct 24 22:14	8°♿46'31 1°39'26	
	9214 Nov 12 09:56	0°♿		max. Earth dist.	9215 Oct 27 00:11	13°♿17'38 1.32699 AU	
max. Earth dist.	9214 Nov 12 23:41	1°♿11'22 1.33951 AU		evening rise	9215 Nov 01 07:51	24°♿27'34	
evening rise	9214 Nov 17 14:19	10°♿28'35			9215 Nov 04 02:36	0°♿	
desc. node	9214 Nov 27 14:08	28°♿40'16		desc. node	9215 Nov 14 11:14	18°♿34'53	
	9214 Nov 28 09:09	0°♿			9215 Nov 21 22:37	0°♿	
	9214 Dec 20 02:53	0°♿		evening max el	9215 Dec 04 19:51	15°♿27'13 27°29'27	
evening max el	9214 Dec 22 07:53	2°♿13'04 27°08'30		retrograde	9215 Dec 18 12:41	22°♿46'18	
retrograde	9215 Jan 04 17:18	9°♿34'38		evening set	9215 Dec 25 12:57	20°♿16'02	
evening set	9215 Jan 11 10:46	6°♿59'29		min. Earth dist.	9215 Dec 29 06:59	17°♿02'22 0.63501 AU	
min. Earth dist.	9215 Jan 15 08:58	3°♿14'43 0.65213 AU		inferior conj	9215 Dec 31 22:49	14°♿21'33 -2°03'07	
inferior conj	9215 Jan 17 13:42	0°♿47'16 -0°54'23		minimum elong	9216 Jan 01 02:44	14°♿11'38 2°01'15	
minimum elong	9215 Jan 17 15:19	0°♿42'46 0°53'26					
	9215 Jan 18 06:42	30°♿		asc. node	9216 Jan 07 03:54	9°♿20'05	
asc. node	9215 Jan 20 06:48	27°♿54'35		morning rise	9216 Jan 07 18:28	9°♿04'34	




























































































































direct	9216 Jan 10 03:45	8° Z 36'55		direct	9216 Dec 23 09:06	22° Z 12'32	
morning max el	9216 Jan 16 16:50	11° Z 59'56	17°48'05	asc. node	9216 Dec 24 00:55	22° Z 14'26	
	9216 Jan 29 00:14	0° \approx		morning max el	9216 Dec 30 08:56	25° Z 44'20	17°52'33
morning set	9216 Feb 02 02:35	7° \approx 02'47			9217 Jan 02 23:20	0° Z	
desc. node	9216 Feb 10 10:39	21° \approx 15'24		morning set	9217 Jan 15 01:36	20° Z 17'28	
					9217 Jan 20 10:56	0° \approx	
superior conj	9216 Feb 14 13:36	28° \approx 05'26	-0°30'04	superior conj	9217 Jan 25 18:40	9° \approx 19'59	0°11'30
minimum elong	9216 Feb 14 10:23	27° \approx 52'12	0°29'25	minimum elong	9217 Jan 25 19:42	9° \approx 24'26	0°11'35
	9216 Feb 15 17:38	0° X		behind sun begin	9217 Jan 25 13:50	8° \approx 59'08	
max. Earth dist.	9216 Feb 20 12:40	7° X 43'22	1.44519 AU	behind sun end	9217 Jan 26 01:35	9° \approx 49'43	
evening rise	9216 Mar 01 00:48	22° X 34'46		desc. node	9217 Jan 27 07:34	11° \approx 58'02	
	9216 Mar 05 21:38	0° Y		max. Earth dist.	9217 Feb 02 03:46	21° \approx 43'05	1.43021 AU
	9216 Mar 27 03:25	0° B			9217 Feb 07 07:18	0° X	
evening max el	9216 Mar 29 21:31	3° B 02'09	20°41'38	evening rise	9217 Feb 08 18:37	2° X 19'06	
asc. node	9216 Apr 04 02:32	7° B 05'00			9217 Feb 27 09:06	0° Y	
retrograde	9216 Apr 07 02:48	7° B 50'22		evening max el	9217 Mar 12 17:17	16° Y 43'41	21°55'06
evening set	9216 Apr 11 04:35	6° B 15'42		asc. node	9217 Mar 21 23:40	22° Y 13'57	
inferior conj	9216 Apr 16 11:47	0° B 06'50	3°06'27	retrograde	9217 Mar 22 00:30	22° Y 13'57	
minimum elong	9216 Apr 16 10:15	0° B 12'08	3°06'05	evening set	9217 Mar 26 12:44	20° Y 23'56	
	9216 Apr 16 13:46	30° R Y		inferior conj	9217 Mar 31 20:10	14° Y 04'40	2°43'28
min. Earth dist.	9216 Apr 17 01:29	29° Y 19'42	0.68045 AU	minimum elong	9217 Mar 31 18:05	14° Y 11'57	2°42'56
morning rise	9216 Apr 21 15:42	23° Y 50'53		min. Earth dist.	9217 Mar 31 20:59	14° Y 01'49	0.68470 AU
direct	9216 Apr 27 03:05	21° Y 25'09		morning rise	9217 Apr 05 23:17	7° Y 52'55	
morning max el	9216 May 08 02:37	27° Y 58'50	23°59'48	direct	9217 Apr 10 20:50	5° Y 46'58	
desc. node	9216 May 08 10:47	28° Y 19'39		morning max el	9217 Apr 20 13:30	11° Y 29'35	22°30'15
	9216 May 10 00:32	0° B		desc. node	9217 Apr 25 07:42	16° Y 48'30	
	9216 May 31 23:48	0° II			9217 May 05 05:47	0° B	
morning set	9216 Jun 12 14:36	18° II 56'54		morning set	9217 May 24 08:23	29° B 11'32	
max. Earth dist.	9216 Jun 16 08:32	25° II 30'02	1.38340 AU		9217 May 24 20:14	0° II	
	9216 Jun 18 20:30	0° E		max. Earth dist.	9217 May 29 06:17	7° II 21'54	1.40602 AU
superior conj	9216 Jun 23 15:27	8° E 54'46	-1°07'53	superior conj	9217 Jun 06 01:14	20° II 58'37	-1°38'12
minimum elong	9216 Jun 23 19:47	9° E 15'23	1°07'27	minimum elong	9217 Jun 06 07:10	21° II 25'22	1°37'46
asc. node	9216 Jul 01 01:26	23° E 19'31			9217 Jun 10 23:29	0° E	
evening rise	9216 Jul 02 14:31	26° E 21'56		evening rise	9217 Jun 16 04:10	9° E 45'01	
	9216 Jul 04 11:08	0° O		asc. node	9217 Jun 17 22:27	13° E 03'42	
evening max el	9216 Jul 18 23:49	23° O 00'48	18°57'47		9217 Jun 27 18:35	0° O	
retrograde	9216 Jul 27 15:28	27° O 18'35		evening max el	9217 Jul 02 05:19	5° O 27'45	18°21'52
evening set	9216 Jul 29 13:41	27° O 06'40		retrograde	9217 Jul 09 15:40	9° O 11'24	
desc. node	9216 Aug 04 09:56	24° O 29'00		evening set	9217 Jul 11 20:22	8° O 52'42	
inferior conj	9216 Aug 06 20:15	22° O 50'20	-0°44'50	inferior conj	9217 Jul 19 07:15	4° O 16'20	0°53'00
minimum elong	9216 Aug 06 18:20	22° O 53'41	0°44'17	minimum elong	9217 Jul 19 09:01	4° O 12'40	0°52'07
min. Earth dist.	9216 Aug 09 20:02	20° O 45'11	0.56506 AU	desc. node	9217 Jul 22 07:04	1° O 49'03	
morning rise	9216 Aug 14 19:49	17° O 56'41		min. Earth dist.	9217 Jul 22 16:13	1° O 31'03	0.58470 AU
direct	9216 Aug 20 05:37	16° O 47'30			9217 Jul 24 18:03	30° R E	
morning max el	9216 Sep 03 11:19	24° O 07'10	26°01'25	morning rise	9217 Jul 26 18:16	28° E 47'06	
	9216 Sep 08 20:18	0° P		direct	9217 Aug 01 21:13	27° E 08'03	
asc. node	9216 Sep 27 01:16	29° P 21'34			9217 Aug 10 07:54	0° O	
	9216 Sep 27 08:59	0° A		morning max el	9217 Aug 16 06:36	4° O 51'43	27°14'30
morning set	9216 Oct 01 13:08	8° A 37'46			9217 Sep 03 18:40	0° P	
superior conj	9216 Oct 08 09:52	23° A 40'04	1°32'12	asc. node	9217 Sep 13 22:10	19° P 04'10	
minimum elong	9216 Oct 08 08:13	23° A 30'52	1°32'10	morning set	9217 Sep 15 21:46	23° P 12'05	
max. Earth dist.	9216 Oct 09 07:06	25° A 37'27	1.31906 AU		9217 Sep 19 01:37	0° A	
	9216 Oct 11 06:53	0° M		superior conj	9217 Sep 22 21:40	8° A 28'29	1°19'41
evening rise	9216 Oct 15 09:22	8° M 47'23		minimum elong	9217 Sep 22 19:30	8° A 16'28	1°19'26
	9216 Oct 26 11:26	0° Z		max. Earth dist.	9217 Sep 22 16:51	8° A 01'45	1.31573 AU
desc. node	9216 Oct 31 08:21	7° Z 59'58		evening rise	9217 Sep 29 16:16	23° A 19'46	
evening max el	9216 Nov 16 04:01	28° Z 05'50	27°18'58		9217 Oct 02 21:09	0° M	
	9216 Nov 18 07:17	0° Z		desc. node	9217 Oct 18 05:28	26° M 42'53	
retrograde	9216 Nov 30 00:24	5° Z 18'54			9217 Oct 20 14:10	0° Z	
evening set	9216 Dec 07 01:40	3° Z 02'34		evening max el	9217 Oct 29 05:30	9° Z 56'30	26°34'32
min. Earth dist.	9216 Dec 10 18:28	0° Z 13'58	0.61538 AU	retrograde	9217 Nov 12 03:33	17° Z 03'36	
	9216 Dec 11 00:56	30° R Z		evening set	9217 Nov 18 20:42	15° Z 11'36	
inferior conj	9216 Dec 13 19:22	27° Z 31'30	-3°15'15	min. Earth dist.	9217 Nov 22 19:11	12° Z 36'15	0.59439 AU
minimum elong	9216 Dec 14 01:39	27° Z 17'26	3°12'45	inferior conj	9217 Nov 25 23:49	10° Z 07'09	-4°24'27
morning rise	9216 Dec 21 04:00	22° Z 33'18					

minimum elong	9217 Nov 26 07:25	9° ♄ 52'20	4°22'09	morning rise	9218 Nov 15 14:52	17° ♄ 46'06	
morning rise	9217 Dec 03 20:39	5° ♄ 30'49		direct	9218 Nov 17 23:50	17° ♄ 29'21	
direct	9217 Dec 06 01:12	5° ♄ 13'39		morning max el	9218 Nov 26 22:46	21° ♄ 46'59	19°01'30
asc. node	9217 Dec 10 21:56	6° ♄ 43'23		asc. node	9218 Nov 27 18:56	22° ♄ 37'33	
morning max el	9217 Dec 13 20:09	9° ♄ 03'28	18°16'27		9218 Dec 03 10:00	0° ♄	
	9217 Dec 27 09:39	0° ♄		morning set	9218 Dec 13 13:55	18° ♄ 31'05	
morning set	9217 Dec 29 14:52	4° ♄ 11'11			9218 Dec 19 09:29	0° ♄	
superior conj	9218 Jan 07 23:09	21° ♄ 40'53	0°45'55	superior conj	9218 Dec 21 22:14	4° ♄ 54'09	1°11'40
minimum elong	9218 Jan 08 02:11	21° ♄ 54'37	0°45'45	minimum elong	9218 Dec 22 01:25	5° ♄ 09'23	1°11'33
	9218 Jan 12 15:08	0° ♄		max. Earth dist.	9218 Dec 28 19:32	17° ♄ 40'50	1.38902 AU
desc. node	9218 Jan 14 04:30	2° ♄ 41'58		desc. node	9219 Jan 01 01:26	23° ♄ 23'31	
max. Earth dist.	9218 Jan 15 13:33	5° ♄ 03'24	1.41068 AU	evening rise	9219 Jan 01 15:35	24° ♄ 24'31	
evening rise	9218 Jan 20 06:12	12° ♄ 52'49			9219 Jan 04 23:02	0° ♄	
	9218 Jan 31 04:57	0° ♄			9219 Jan 24 22:58	0° ♄	
	9218 Feb 22 22:02	0° ♄		evening max el	9219 Feb 05 22:32	14° ♄ 14'37	24°34'10
evening max el	9218 Feb 23 08:54	0° ♄ 27'31	23°14'41	retrograde	9219 Feb 17 11:26	20° ♄ 59'16	
retrograde	9218 Mar 05 19:49	6° ♄ 38'45		evening set	9219 Feb 22 23:23	18° ♄ 41'44	
asc. node	9218 Mar 08 20:47	5° ♄ 53'32		asc. node	9219 Feb 23 17:55	17° ♄ 59'36	
evening set	9218 Mar 10 19:31	4° ♄ 34'13		min. Earth dist.	9219 Feb 27 13:33	13° ♄ 28'35	0.68043 AU
	9218 Mar 14 20:13	30° ♄		inferior conj	9219 Feb 28 12:20	12° ♄ 12'33	1°29'58
min. Earth dist.	9218 Mar 15 17:47	28° ♄ 46'29	0.68459 AU	minimum elong	9219 Feb 28 10:27	12° ♄ 18'50	1°29'25
inferior conj	9218 Mar 16 04:58	28° ♄ 07'52	2°11'09	morning rise	9219 Mar 05 21:41	6° ♄ 13'02	
minimum elong	9218 Mar 16 02:45	28° ♄ 15'32	2°10'30	direct	9219 Mar 09 16:36	4° ♄ 50'47	
morning rise	9218 Mar 21 09:55	22° ♄ 01'30		morning max el	9219 Mar 17 04:36	9° ♄ 03'05	19°54'48
direct	9218 Mar 25 17:45	20° ♄ 17'33		desc. node	9219 Mar 30 01:27	25° ♄ 42'56	
morning max el	9218 Apr 03 05:22	25° ♄ 10'40	21°06'40		9219 Apr 01 23:17	0° ♄	
	9218 Apr 07 12:54	0° ♄		morning set	9219 Apr 12 22:05	16° ♄ 36'15	
desc. node	9218 Apr 12 04:35	6° ♄ 00'21			9219 Apr 21 12:20	0° ♄	
	9218 Apr 28 15:51	0° ♄		max. Earth dist.	9219 Apr 23 19:47	3° ♄ 39'45	1.44299 AU
morning set	9218 May 03 23:30	8° ♄ 14'23		superior conj	9219 Apr 29 01:53	12° ♄ 06'31	-2°12'23
max. Earth dist.	9218 May 11 09:29	20° ♄ 06'09	1.42670 AU	minimum elong	9219 Apr 29 02:35	12° ♄ 09'21	2°12'34
	9218 May 17 08:27	0° ♄			9219 May 09 20:08	0° ♄	
superior conj	9218 May 18 13:48	2° ♄ 04'37	-2°01'44	evening rise	9219 May 12 08:51	4° ♄ 18'34	
minimum elong	9218 May 18 19:08	2° ♄ 27'22	2°01'39	asc. node	9219 May 22 16:33	21° ♄ 36'31	
evening rise	9218 May 30 03:53	22° ♄ 27'47			9219 May 28 16:02	0° ♄	
	9218 Jun 03 09:00	0° ♄		evening max el	9219 May 30 06:11	1° ♄ 43'11	18°09'06
asc. node	9218 Jun 04 19:29	2° ♄ 31'36		retrograde	9219 Jun 05 15:18	5° ♄ 03'57	
evening max el	9218 Jun 15 16:39	18° ♄ 25'13	18°05'57	evening set	9219 Jun 08 11:23	4° ♄ 22'20	
retrograde	9218 Jun 22 09:03	21° ♄ 49'59			9219 Jun 13 19:11	30° ♄	
evening set	9218 Jun 24 21:27	21° ♄ 21'03		inferior conj	9219 Jun 14 14:54	29° ♄ 07'13	2°49'24
inferior conj	9218 Jul 01 14:45	16° ♄ 24'41	2°04'01	minimum elong	9219 Jun 14 17:22	29° ♄ 00'34	2°48'38
minimum elong	9218 Jul 01 17:41	16° ♄ 17'40	2°02'54	min. Earth dist.	9219 Jun 17 08:57	26° ♄ 09'46	0.62929 AU
min. Earth dist.	9218 Jul 04 20:11	13° ♄ 21'28	0.60714 AU	morning rise	9219 Jun 20 21:41	22° ♄ 56'58	
morning rise	9218 Jul 08 11:16	10° ♄ 29'35		desc. node	9219 Jun 26 01:12	20° ♄ 32'56	
desc. node	9218 Jul 09 04:09	10° ♄ 03'35		direct	9219 Jun 27 15:40	20° ♄ 24'40	
direct	9218 Jul 15 01:29	8° ♄ 20'18		morning max el	9219 Jul 11 15:58	28° ♄ 27'31	27°51'10
morning max el	9218 Jul 29 08:41	16° ♄ 18'36	27°51'58		9219 Jul 13 03:40	0° ♄	
	9218 Aug 09 14:36	0° ♄			9219 Aug 03 10:49	0° ♄	
	9218 Aug 27 08:47	0° ♄		morning set	9219 Aug 15 00:14	21° ♄ 29'13	
morning set	9218 Aug 31 02:11	7° ♄ 31'20		asc. node	9219 Aug 18 16:01	29° ♄ 01'54	
asc. node	9218 Aug 31 19:05	8° ♄ 59'18			9219 Aug 19 03:01	0° ♄	
max. Earth dist.	9218 Sep 06 01:44	20° ♄ 20'36	1.31713 AU	max. Earth dist.	9219 Aug 20 05:58	2° ♄ 23'19	1.32336 AU
superior conj	9218 Sep 07 08:37	23° ♄ 10'48	1°02'05	superior conj	9219 Aug 22 16:55	7° ♄ 41'14	0°39'45
minimum elong	9218 Sep 07 06:25	22° ♄ 58'38	1°01'40	minimum elong	9219 Aug 22 15:11	7° ♄ 31'53	0°39'17
	9218 Sep 10 10:37	0° ♄		evening rise	9219 Aug 29 14:00	22° ♄ 39'10	
evening rise	9218 Sep 14 02:27	7° ♄ 58'58			9219 Sep 02 02:15	0° ♄	
	9218 Sep 25 09:42	0° ♄			9219 Sep 21 03:49	0° ♄	
desc. node	9218 Oct 05 02:36	14° ♄ 27'21		desc. node	9219 Sep 21 23:46	0° ♄ 50'51	
evening max el	9218 Oct 10 22:59	20° ♄ 56'27	25°19'09	evening max el	9219 Sep 22 10:43	1° ♄ 17'42	23°43'38
retrograde	9218 Oct 24 20:28	27° ♄ 56'47		retrograde	9219 Oct 06 00:46	8° ♄ 05'04	
evening set	9218 Oct 30 17:16	26° ♄ 37'57		evening set	9219 Oct 10 13:22	7° ♄ 20'22	
min. Earth dist.	9218 Nov 04 11:00	23° ♄ 58'29	0.57419 AU	min. Earth dist.	9219 Oct 16 21:02	4° ♄ 18'27	0.55772 AU
inferior conj	9218 Nov 07 09:05	21° ♄ 59'54	-5°18'42	inferior conj	9219 Oct 18 22:08	3° ♄ 04'59	-5°39'36
minimum elong	9218 Nov 07 14:54	21° ♄ 50'01	5°17'38	minimum elong	9219 Oct 18 21:41	3° ♄ 05'39	5°39'27

	9219 Oct 24 17:45	30° RU		evening set	9220 Sep 18 18:30	17° U 28'17	
morning rise	9219 Oct 27 07:59	29° U 10'05		min. Earth dist.	9220 Sep 27 04:45	13° U 48'02	0.54807 AU
direct	9219 Oct 30 03:22	28° U 50'21		inferior conj	9220 Sep 27 19:06	13° U 27'56	-5°08'38
	9219 Nov 04 05:34	0° M		minimum elong	9220 Sep 27 11:16	13° U 38'55	5°07'12
morning max el	9219 Nov 09 13:20	3° M 44'57	20°09'06	morning rise	9220 Oct 06 05:32	9° U 40'23	
asc. node	9219 Nov 14 15:55	9° M 41'39		direct	9220 Oct 09 15:38	9° U 14'29	
	9219 Nov 26 06:22	0° X		morning max el	9220 Oct 21 14:36	14° U 52'33	21°38'14
morning set	9219 Nov 27 19:31	3° X 08'14		asc. node	9220 Oct 31 12:53	27° U 39'44	
					9220 Nov 01 22:34	0° M	
superior conj	9219 Dec 05 11:10	18° X 46'34	1°28'51	morning set	9220 Nov 11 05:03	17° M 54'19	
minimum elong	9219 Dec 05 13:30	18° X 58'18	1°28'55		9220 Nov 16 22:29	0° X	
max. Earth dist.	9219 Dec 11 02:18	29° X 47'27	1.36769 AU				
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evening rise	9219 Dec 14 21:26	6° Z 50'13		minimum elong	9220 Nov 18 10:58	3° X 11'30	1°38'27
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	9219 Dec 28 18:59	0° \approx		evening rise	9220 Nov 26 20:02	19° X 59'23	
evening max el	9220 Jan 19 11:52	28° \approx 03'31	25°46'28		9220 Dec 02 06:48	0° Z	
	9220 Jan 21 14:10	0° X		desc. node	9220 Dec 04 19:29	4° Z 23'33	
retrograde	9220 Jan 31 22:18	5° X 10'30			9220 Dec 21 19:14	0° \approx	
evening set	9220 Feb 06 22:43	2° X 42'30		evening max el	9221 Jan 01 01:17	11° \approx 46'42	26°44'22
	9220 Feb 09 15:36	30° $\text{R}\approx$		retrograde	9221 Jan 14 03:39	19° \approx 05'16	
asc. node	9220 Feb 10 15:03	28° \approx 50'31		evening set	9221 Jan 20 15:41	16° \approx 30'53	
min. Earth dist.	9220 Feb 11 06:04	28° \approx 04'06	0.67242 AU	min. Earth dist.	9221 Jan 24 16:58	12° \approx 27'05	0.66063 AU
inferior conj	9220 Feb 12 16:24	26° \approx 15'31	0°40'17	inferior conj	9221 Jan 26 15:03	10° \approx 11'43	-0°17'35
minimum elong	9220 Feb 12 15:24	26° \approx 18'41	0°40'04	minimum elong	9221 Jan 26 15:32	10° \approx 10'17	0°17'09
morning rise	9220 Feb 18 08:35	20° \approx 24'45		asc. node	9221 Jan 27 12:10	9° \approx 10'06	
direct	9220 Feb 21 15:53	19° \approx 22'11		morning rise	9221 Feb 01 16:24	4° \approx 32'03	
morning max el	9220 Feb 28 11:37	23° \approx 05'44	18°57'53	direct	9221 Feb 04 13:36	3° \approx 46'03	
	9220 Mar 05 05:50	0° X		morning max el	9221 Feb 11 00:53	7° \approx 13'12	18°17'21
greatest brilliancy	9220 Mar 13 12:22	12° X 06'08	-0.8m		9221 Feb 26 23:01	0° X	
desc. node	9220 Mar 15 22:19	15° X 48'16		morning set	9221 Mar 02 10:32	5° X 35'01	
morning set	9220 Mar 22 03:29	25° X 25'56		desc. node	9221 Mar 02 19:11	6° X 09'44	
	9220 Mar 25 01:59	0° Y					
max. Earth dist.	9220 Apr 05 12:11	17° Y 50'20	1.45303 AU	superior conj	9221 Mar 17 21:24	0° Y 05'13	-1°36'21
				minimum elong	9221 Mar 17 11:49	29° X 27'39	1°35'23
superior conj	9220 Apr 07 16:07	21° Y 14'29	-2°04'16		9221 Mar 17 20:04	0° Y	
minimum elong	9220 Apr 07 09:38	20° Y 48'58	2°04'01	max. Earth dist.	9221 Mar 19 07:48	2° Y 19'55	1.45574 AU
	9220 Apr 13 04:50	0° B		evening rise	9221 Apr 02 21:58	25° Y 08'03	
evening rise	9220 Apr 22 15:01	15° B 10'44			9221 Apr 06 00:37	0° B	
	9220 May 01 18:33	0° II		greatest brilliancy	9221 Apr 13 21:31	12° B 13'13	-0.8m
asc. node	9220 May 08 13:38	10° II 10'57		asc. node	9221 Apr 25 10:46	28° B 05'13	
evening max el	9220 May 12 18:52	15° II 13'43	18°30'33	evening max el	9221 Apr 26 04:10	28° B 50'39	19°09'25
retrograde	9220 May 19 06:19	18° II 44'29			9221 Apr 27 09:26	0° II	
evening set	9220 May 22 09:57	17° II 48'45		retrograde	9221 May 03 02:27	2° II 44'04	
inferior conj	9220 May 28 03:38	12° II 16'16	3°13'38	evening set	9221 May 06 14:00	1° II 33'29	
minimum elong	9220 May 28 04:56	12° II 12'25	3°13'14		9221 May 08 10:48	30° RB	
min. Earth dist.	9220 May 30 06:53	9° II 43'38	0.64886 AU	inferior conj	9221 May 12 01:22	25° B 45'21	3°21'06
morning rise	9220 Jun 02 23:01	5° II 58'56		minimum elong	9221 May 12 01:23	25° B 45'17	3°20'52
direct	9220 Jun 09 13:48	3° II 14'49		min. Earth dist.	9221 May 13 13:21	23° B 49'33	0.66453 AU
desc. node	9220 Jun 11 22:14	3° II 33'08		morning rise	9221 May 17 12:19	19° B 26'04	
morning max el	9220 Jun 23 02:03	11° II 11'01	27°15'31	direct	9221 May 23 18:41	16° B 41'44	
	9220 Jul 07 23:43	0° E		desc. node	9221 May 29 19:14	18° B 41'45	
	9220 Jul 25 22:49	0° O		morning max el	9221 Jun 05 12:39	24° B 18'01	26°12'20
morning set	9220 Jul 28 13:13	4° O 58'25			9221 Jun 10 15:27	0° II	
max. Earth dist.	9220 Aug 02 02:03	14° O 02'11	1.33455 AU		9221 Jul 01 09:45	0° E	
asc. node	9220 Aug 04 12:57	19° O 07'40		morning set	9221 Jul 11 13:41	17° E 50'00	
				max. Earth dist.	9221 Jul 15 11:45	25° E 17'26	1.35052 AU
superior conj	9220 Aug 05 20:27	21° O 53'38	0°13'08		9221 Jul 17 21:08	0° O	
minimum elong	9220 Aug 05 19:47	21° O 50'09	0°12'48				
behind sun begin	9220 Aug 05 16:25	21° O 32'19		superior conj	9221 Jul 20 16:47	5° O 41'32	-0°16'59
behind sun end	9220 Aug 05 23:10	22° O 08'01		minimum elong	9221 Jul 20 17:46	5° O 46'36	0°17'02
	9220 Aug 09 15:33	0° P		asc. node	9221 Jul 22 09:55	9° O 12'55	
evening rise	9220 Aug 13 01:03	7° P 14'39		evening rise	9221 Jul 28 09:32	21° O 39'36	
	9220 Aug 25 01:45	0° U			9221 Aug 01 12:27	0° P	
evening max el	9220 Sep 02 23:50	11° U 29'17	22°04'25	evening max el	9221 Aug 15 22:59	22° P 06'53	20°36'33
desc. node	9220 Sep 07 20:57	15° U 23'53		desc. node	9221 Aug 25 18:07	27° P 36'24	
retrograde	9220 Sep 15 17:08	17° U 49'05		retrograde	9221 Aug 27 05:22	27° P 41'55	





































































































































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inferior conj	9221 Sep 07 11:43	23° \mathbb{M} 34'20	-3°44'00	desc. node	9222 Aug 12 15:16	7° \mathbb{M} 14'40	
minimum elong	9221 Sep 07 02:21	23° \mathbb{M} 47'49	3°41'06	inferior conj	9222 Aug 18 14:27	3° \mathbb{M} 56'27	-1°50'15
min. Earth dist.	9221 Sep 08 13:40	22° \mathbb{M} 56'58	0.54745 AU	minimum elong	9222 Aug 18 09:29	4° \mathbb{M} 04'27	1°48'29
morning rise	9221 Sep 15 21:00	19° \mathbb{M} 33'28		min. Earth dist.	9222 Aug 21 01:52	2° \mathbb{M} 21'07	0.55627 AU
direct	9221 Sep 19 23:57	18° \mathbb{M} 57'03			9222 Aug 25 07:48	30° \mathbb{R} 0	
morning max el	9221 Oct 03 05:53	25° \mathbb{M} 20'17	23°22'06	morning rise	9222 Aug 26 19:03	29° \mathbb{J} 23'58	
	9221 Oct 07 14:23	0° \mathbb{L}		direct	9222 Aug 31 17:26	28° \mathbb{J} 29'04	
asc. node	9221 Oct 18 09:51	16° \mathbb{L} 19'11			9222 Sep 07 01:21	0° \mathbb{M}	
	9221 Oct 25 09:28	0° \mathbb{M}		morning max el	9222 Sep 14 17:56	5° \mathbb{M} 31'50	25°07'08
morning set	9221 Oct 26 16:32	2° \mathbb{M} 43'33			9222 Oct 02 08:15	0° \mathbb{L}	
				asc. node	9222 Oct 05 06:46	5° \mathbb{L} 29'18	
superior conj	9221 Nov 02 15:12	17° \mathbb{M} 42'28	1°40'43	morning set	9222 Oct 11 04:11	17° \mathbb{L} 30'40	
minimum elong	9221 Nov 02 15:03	17° \mathbb{M} 41'39	1°40'56		9222 Oct 16 21:34	0° \mathbb{M}	
max. Earth dist.	9221 Nov 05 10:12	23° \mathbb{M} 39'51	1.33365 AU				
	9221 Nov 08 11:27	0° \mathbb{X}		superior conj	9222 Oct 18 00:37	2° \mathbb{M} 28'53	1°36'58
evening rise	9221 Nov 10 07:38	3° \mathbb{X} 42'35		minimum elong	9222 Oct 17 23:25	2° \mathbb{M} 22'17	1°37'03
desc. node	9221 Nov 21 16:34	24° \mathbb{X} 30'59		max. Earth dist.	9222 Oct 19 13:30	5° \mathbb{M} 50'56	1.32301 AU
	9221 Nov 25 01:37	0° \mathbb{Z}		evening rise	9222 Oct 25 04:52	17° \mathbb{M} 51'02	
evening max el	9221 Dec 14 14:02	25° \mathbb{Z} 14'08	27°20'44		9222 Oct 31 09:11	0° \mathbb{X}	
	9221 Dec 20 12:23	0° \mathbb{A}		desc. node	9222 Nov 08 13:40	14° \mathbb{X} 14'09	
retrograde	9221 Dec 28 02:58	2° \mathbb{A} 35'30			9222 Nov 19 13:38	0° \mathbb{Z}	
evening set	9222 Jan 04 00:03	0° \mathbb{A} 01'02		evening max el	9222 Nov 27 00:31	8° \mathbb{Z} 14'11	27°29'02
	9222 Jan 04 00:36	30° \mathbb{R} 3		retrograde	9222 Dec 10 19:32	15° \mathbb{Z} 31'54	
min. Earth dist.	9222 Jan 07 20:08	26° \mathbb{Z} 30'18	0.64528 AU	evening set	9222 Dec 17 21:01	13° \mathbb{Z} 06'08	
inferior conj	9222 Jan 10 05:52	23° \mathbb{Z} 55'42	-1°22'51	min. Earth dist.	9222 Dec 21 13:52	10° \mathbb{Z} 04'12	0.62687 AU
minimum elong	9222 Jan 10 08:25	23° \mathbb{Z} 48'52	1°21'32	inferior conj	9222 Dec 24 10:02	7° \mathbb{Z} 20'44	-2°33'36
asc. node	9222 Jan 14 09:16	19° \mathbb{Z} 56'51		minimum elong	9222 Dec 24 15:01	7° \mathbb{Z} 08'46	2°31'24
morning rise	9222 Jan 16 18:26	18° \mathbb{Z} 29'49		morning rise	9222 Dec 31 11:13	2° \mathbb{Z} 11'32	
direct	9222 Jan 19 07:21	17° \mathbb{Z} 56'41		asc. node	9223 Jan 01 06:20	1° \mathbb{Z} 57'46	
morning max el	9222 Jan 25 17:44	21° \mathbb{Z} 18'26	17°53'45	direct	9223 Jan 02 18:12	1° \mathbb{Z} 47'24	
	9222 Feb 01 10:58	0° \mathbb{A}		morning max el	9223 Jan 09 11:05	5° \mathbb{Z} 13'18	17°47'42
morning set	9222 Feb 11 22:43	17° \mathbb{A} 10'00		morning set	9223 Jan 25 11:00	29° \mathbb{Z} 54'35	
desc. node	9222 Feb 17 16:04	26° \mathbb{A} 42'32			9223 Jan 25 12:14	0° \mathbb{A}	
	9222 Feb 19 16:02	0° \mathbb{H}		desc. node	9223 Feb 04 12:58	17° \mathbb{A} 22'53	
superior conj	9222 Feb 25 12:49	9° \mathbb{H} 30'32	-0°55'26	superior conj	9223 Feb 06 03:13	20° \mathbb{A} 03'36	-0°11'49
minimum elong	9222 Feb 25 06:34	9° \mathbb{H} 05'29	0°54'28	minimum elong	9223 Feb 06 02:03	19° \mathbb{A} 58'42	0°11'25
max. Earth dist.	9222 Mar 02 03:18	16° \mathbb{H} 49'35	1.45102 AU	behind sun begin	9223 Feb 05 19:36	19° \mathbb{A} 31'42	
	9222 Mar 10 14:03	0° \mathbb{Y}		behind sun end	9223 Feb 06 08:30	20° \mathbb{A} 25'40	
evening rise	9222 Mar 13 12:31	4° \mathbb{Y} 31'18			9223 Feb 12 04:25	0° \mathbb{H}	
greatest brilliancy	9222 Mar 28 09:48	26° \mathbb{Y} 57'26	-0.6m	max. Earth dist.	9223 Feb 12 20:08	1° \mathbb{H} 03'20	1.43945 AU
	9222 Mar 30 12:26	0° \mathbb{B}		evening rise	9223 Feb 21 00:50	13° \mathbb{H} 58'02	
evening max el	9222 Apr 09 08:25	12° \mathbb{B} 29'44	20°04'06		9223 Mar 03 15:23	0° \mathbb{Y}	
asc. node	9222 Apr 12 07:53	15° \mathbb{B} 06'41		evening max el	9223 Mar 23 07:11	26° \mathbb{Y} 10'49	21°11'50
retrograde	9222 Apr 17 00:52	16° \mathbb{B} 56'14			9223 Mar 27 22:13	0° \mathbb{B}	
evening set	9222 Apr 20 21:04	15° \mathbb{B} 30'30		asc. node	9223 Mar 30 05:01	1° \mathbb{B} 01'27	
inferior conj	9222 Apr 26 05:04	9° \mathbb{B} 28'30	3°15'07	retrograde	9223 Mar 31 23:18	1° \mathbb{B} 17'04	
minimum elong	9222 Apr 26 04:01	9° \mathbb{B} 32'05	3°14'50		9223 Apr 04 16:32	30° \mathbb{R} Y	
min. Earth dist.	9222 Apr 27 02:36	8° \mathbb{B} 15'37	0.67588 AU	evening set	9223 Apr 05 05:18	29° \mathbb{Y} 36'02	
morning rise	9222 May 01 10:40	3° \mathbb{B} 10'32		inferior conj	9223 Apr 10 12:22	23° \mathbb{Y} 22'27	2°57'53
direct	9222 May 07 05:29	0° \mathbb{B} 35'46		minimum elong	9223 Apr 10 10:33	23° \mathbb{Y} 28'45	2°57'28
desc. node	9222 May 16 16:12	5° \mathbb{B} 27'29		min. Earth dist.	9223 Apr 10 20:32	22° \mathbb{Y} 54'04	0.68278 AU
morning max el	9222 May 18 22:15	7° \mathbb{B} 36'53	24°50'52	morning rise	9223 Apr 15 15:34	17° \mathbb{Y} 07'51	
	9222 Jun 05 09:38	0° \mathbb{I}		direct	9223 Apr 20 21:07	14° \mathbb{Y} 49'52	
morning set	9222 Jun 23 21:00	29° \mathbb{I} 50'50		morning max el	9223 May 01 07:41	21° \mathbb{Y} 02'47	23°21'22
	9222 Jun 23 23:04	0° \mathbb{O}		desc. node	9223 May 03 13:06	23° \mathbb{Y} 24'42	
max. Earth dist.	9222 Jun 27 11:37	6° \mathbb{O} 21'19	1.37057 AU		9223 May 09 00:20	0° \mathbb{B}	
					9223 May 29 15:30	0° \mathbb{I}	
superior conj	9222 Jul 04 02:45	18° \mathbb{O} 55'59	-0°49'13	morning set	9223 Jun 05 05:50	10° \mathbb{I} 47'28	
minimum elong	9222 Jul 04 05:50	19° \mathbb{O} 11'06	0°48'56	max. Earth dist.	9223 Jun 09 07:32	17° \mathbb{I} 45'10	1.39306 AU
asc. node	9222 Jul 09 06:53	29° \mathbb{O} 12'58			9223 Jun 16 03:28	0° \mathbb{O}	
	9222 Jul 09 16:14	0° \mathbb{O}					
evening rise	9222 Jul 12 13:02	5° \mathbb{O} 46'14		superior conj	9223 Jun 16 22:38	1° \mathbb{O} 28'39	-1°21'15
	9222 Jul 26 10:28	0° \mathbb{M}		minimum elong	9223 Jun 17 03:48	1° \mathbb{O} 52'38	1°20'47
evening max el	9222 Jul 29 11:41	3° \mathbb{M} 28'25	19°27'50	evening rise	9223 Jun 26 08:42	19° \mathbb{O} 27'25	
retrograde	9222 Aug 08 01:11	8° \mathbb{M} 12'20		asc. node	9223 Jun 26 03:53	19° \mathbb{O} 04'08	

	9223 Jul 01 22:28	0°♎				9224 Jun 07 07:29	0°♏	
evening max el	9223 Jul 12 12:09	15°♎33'58	18°40'04	evening rise		9224 Jun 08 16:55	2°♏34'20	
retrograde	9223 Jul 20 13:53	19°♎35'01		asc. node		9224 Jun 12 00:54	8°♏41'59	
evening set	9223 Jul 22 14:34	19°♎20'41		evening max el		9224 Jun 24 20:39	28°♏15'15	18°12'44
inferior conj	9223 Jul 30 12:47	14°♎56'24	-0°00'19			9224 Jun 26 21:43	0°♎	
minimum elong	9223 Jul 30 12:46	14°♎56'27	0°00'32	retrograde		9224 Jul 01 21:44	1°♎48'39	
transit middle	9223 Jul 30 12:46	14°♎56'27	0°00'32	evening set		9224 Jul 04 05:51	1°♎25'48	
transit begin	9223 Jul 30 09:07	15°♎03'17				9224 Jul 07 03:43	30°♎♏	
transit end	9223 Jul 30 16:25	14°♎49'36		inferior conj		9224 Jul 11 08:49	26°♏40'40	1°26'29
desc. node	9223 Jul 30 12:23	14°♎57'10		minimum elong		9224 Jul 11 11:21	26°♏35'06	1°25'23
min. Earth dist.	9223 Aug 02 18:34	12°♎31'36	0.57287 AU	min. Earth dist.		9224 Jul 14 17:33	23°♏45'01	0.59414 AU
morning rise	9223 Aug 07 07:28	9°♎46'51		desc. node		9224 Jul 16 09:27	22°♏26'21	
direct	9223 Aug 13 01:22	8°♎25'05		morning rise		9224 Jul 18 13:46	20°♏59'28	
morning max el	9223 Aug 27 09:12	15°♎56'27	26°36'17	direct		9224 Jul 24 22:34	19°♏07'10	
	9223 Sep 07 19:48	0°♎		morning max el		9224 Aug 08 07:13	26°♏57'21	27°35'12
asc. node	9223 Sep 22 03:40	25°♎01'58				9224 Aug 11 04:45	0°♎	
	9223 Sep 24 13:35	0°♎				9224 Aug 31 10:04	0°♎	
morning set	9223 Sep 25 14:23	2°♎10'54		asc. node		9224 Sep 08 00:35	14°♎50'41	
				morning set		9224 Sep 08 21:28	16°♎39'35	
superior conj	9223 Oct 02 12:04	17°♎18'20	1°27'33			9224 Sep 15 01:11	0°♎	
minimum elong	9223 Oct 02 10:09	17°♎07'39	1°27'25	superior conj		9224 Sep 15 23:44	2°♎05'03	1°12'51
max. Earth dist.	9223 Oct 02 21:53	18°♎12'47	1.31705 AU	minimum elong		9224 Sep 15 21:30	1°♎52'38	1°12'30
	9223 Oct 08 07:09	0°♎		max. Earth dist.		9224 Sep 15 07:52	0°♎36'58	1.31575 AU
evening rise	9223 Oct 09 08:56	2°♎16'58		evening rise		9224 Sep 22 17:31	16°♎53'33	
	9223 Oct 24 06:35	0°♎				9224 Sep 29 03:57	0°♎	
desc. node	9223 Oct 26 10:47	3°♎22'53		desc. node		9224 Oct 12 07:55	21°♎43'38	
evening max el	9223 Nov 09 06:18	20°♎34'09	27°04'21			9224 Oct 19 03:03	0°♎	
retrograde	9223 Nov 23 03:58	27°♎44'39		evening max el		9224 Oct 21 04:42	2°♎04'19	26°05'56
evening set	9223 Nov 30 02:48	25°♎37'46		retrograde		9224 Nov 04 02:38	9°♎07'50	
min. Earth dist.	9223 Dec 03 20:58	22°♎56'15	0.60646 AU	evening set		9224 Nov 10 12:49	7°♎29'21	
inferior conj	9223 Dec 07 00:12	20°♎17'34	-3°45'35	min. Earth dist.		9224 Nov 14 17:36	4°♎54'36	0.58558 AU
minimum elong	9223 Dec 07 07:17	20°♎02'36	3°43'01	inferior conj		9224 Nov 17 20:54	2°♎36'46	-4°50'14
morning rise	9223 Dec 14 14:14	15°♎28'06		minimum elong		9224 Nov 18 04:14	2°♎23'15	4°48'21
direct	9223 Dec 16 18:28	15°♎09'19				9224 Nov 21 16:37	30°♎♎	
asc. node	9223 Dec 19 03:22	15°♎32'32		morning rise		9224 Nov 25 22:01	28°♎09'46	
morning max el	9223 Dec 24 01:31	18°♎48'04	18°00'11	direct		9224 Nov 28 03:54	27°♎53'03	
	9224 Jan 01 04:30	0°♎				9224 Dec 04 03:32	0°♎	
morning set	9224 Jan 08 16:46	13°♎27'59		asc. node		9224 Dec 05 00:22	0°♎39'40	
	9224 Jan 17 18:24	0°♎		morning max el		9224 Dec 06 09:30	1°♎53'23	18°32'52
superior conj	9224 Jan 18 18:43	1°♎47'36	0°27'07	morning set		9224 Dec 22 10:43	27°♎34'52	
minimum elong	9224 Jan 18 20:52	1°♎57'05	0°27'02			9224 Dec 23 16:45	0°♎	
desc. node	9224 Jan 22 09:53	8°♎06'26		superior conj		9224 Dec 31 07:47	14°♎32'49	0°57'54
max. Earth dist.	9224 Jan 26 08:56	14°♎47'19	1.42236 AU	minimum elong		9224 Dec 31 11:02	14°♎47'58	0°57'44
evening rise	9224 Feb 01 01:19	24°♎01'48		max. Earth dist.		9225 Jan 07 17:21	27°♎51'33	1.40168 AU
	9224 Feb 04 20:26	0°♎		desc. node		9225 Jan 08 06:51	28°♎49'59	
	9224 Feb 25 15:26	0°♎				9225 Jan 08 23:07	0°♎	
evening max el	9224 Mar 05 01:07	9°♎53'48	22°28'35	evening rise		9225 Jan 11 22:10	5°♎00'30	
retrograde	9224 Mar 14 20:04	15°♎41'33				9225 Jan 28 00:28	0°♎	
asc. node	9224 Mar 16 02:09	15°♎33'43		evening max el		9225 Feb 15 15:45	23°♎39'23	23°48'50
evening set	9224 Mar 19 13:02	13°♎45'26				9225 Feb 25 11:15	0°♎	
inferior conj	9224 Mar 24 21:09	7°♎22'56	2°30'50	retrograde		9225 Feb 26 13:47	0°♎05'14	
minimum elong	9224 Mar 24 18:57	7°♎30'35	2°30'15			9225 Feb 27 15:38	30°♎♎	
min. Earth dist.	9224 Mar 24 16:51	7°♎37'53	0.68524 AU	asc. node		9225 Mar 02 23:17	28°♎33'00	
morning rise	9224 Mar 30 00:44	1°♎13'18		evening set		9225 Mar 03 18:46	27°♎54'49	
	9224 Mar 31 19:36	30°♎♎		min. Earth dist.		9225 Mar 08 13:24	22°♎22'02	0.68342 AU
direct	9224 Apr 03 16:30	29°♎16'20		inferior conj		9225 Mar 09 05:34	21°♎26'56	1°54'42
	9224 Apr 06 18:20	0°♎		minimum elong		9225 Mar 09 03:26	21°♎34'14	1°54'05
morning max el	9224 Apr 12 20:05	4°♎36'51	21°53'27	morning rise		9225 Mar 14 12:06	15°♎23'30	
desc. node	9224 Apr 19 10:00	12°♎13'19		direct		9225 Mar 18 14:23	13°♎48'54	
	9224 May 02 04:18	0°♎		morning max el		9225 Mar 26 14:56	18°♎22'41	20°34'22
morning set	9224 May 15 11:51	20°♎29'40				9225 Apr 05 02:17	0°♎	
	9224 May 21 07:30	0°♎		desc. node		9225 Apr 06 06:53	1°♎39'17	
max. Earth dist.	9224 May 21 07:09	29°♎58'35	1.41528 AU	morning set		9225 Apr 24 17:45	29°♎08'28	
superior conj	9224 May 28 23:56	13°♎09'12	-1°49'21			9225 Apr 25 07:01	0°♎	
minimum elong	9224 May 29 06:01	13°♎35'55	1°49'03	max. Earth dist.		9225 May 03 14:01	13°♎07'20	1.43437 AU

superior conj	9225 May 10 02:14	23°  47'51	-2°08'13	superior conj	9226 Apr 20 04:10	3°  24'19	-2°11'28
minimum elong	9225 May 10 06:09	24°  04'09	2°08'18	minimum elong	9226 Apr 20 01:49	3°  14'54	2°11'33
	9225 May 13 18:35	0°  II		evening rise	9226 May 04 04:59	26°  23'32	
evening rise	9225 May 22 09:15	14°  II56'20			9226 May 06 08:44	0°  II	
asc. node	9225 May 29 21:57	28°  II00'55		asc. node	9226 May 16 19:03	16°  II54'26	
	9225 May 31 02:40	0°  ☿		evening max el	9226 May 22 22:46	24°  II46'36	18°15'59
evening max el	9225 Jun 08 09:17	11°  ☿22'12	18°04'57	retrograde	9226 May 29 07:58	28°  II10'24	
retrograde	9225 Jun 14 21:19	14°  ☿43'39		evening set	9226 Jun 01 07:08	27°  II23'02	
evening set	9225 Jun 17 13:02	14°  ☿09'30		inferior conj	9226 Jun 07 06:00	22°  II00'15	3°01'59
inferior conj	9225 Jun 23 23:56	9°  ☿04'36	2°26'11	minimum elong	9226 Jun 07 08:00	21°  II54'36	3°01'23
minimum elong	9225 Jun 24 02:48	8°  ☿57'21	2°25'11	min. Earth dist.	9226 Jun 09 17:56	19°  II11'18	0.63797 AU
min. Earth dist.	9225 Jun 27 01:00	6°  ☿01'26	0.61674 AU	morning rise	9226 Jun 13 07:33	15°  II45'51	
morning rise	9225 Jun 30 14:22	3°  ☿01'50		direct	9226 Jun 20 00:45	13°  II07'06	
desc. node	9225 Jul 03 06:32	1°  ☿32'02		desc. node	9226 Jun 20 03:34	13°  II07'09	
direct	9225 Jul 07 06:57	0°  ☿41'57		morning max el	9226 Jul 03 21:00	21°  II09'24	27°39'54
morning max el	9225 Jul 21 11:55	8°  ☿43'00	27°56'23		9226 Jul 11 12:51	0°  ☿	
	9225 Aug 06 20:57	0°  ♊			9226 Jul 30 23:55	0°  ♊	
morning set	9225 Aug 23 23:27	0°  ♊50'23		morning set	9226 Aug 07 18:01	14°  ♊37'26	
	9225 Aug 23 13:35	0°  ♊		max. Earth dist.	9226 Aug 12 16:39	24°  ♊44'44	1.32752 AU
asc. node	9225 Aug 25 21:30	4°  ♊49'27		asc. node	9226 Aug 12 18:27	24°  ♊54'08	
max. Earth dist.	9225 Aug 29 15:26	12°  ♊51'03	1.31919 AU		9226 Aug 15 03:59	0°  ♊	
superior conj	9225 Aug 31 09:46	16°  ♊42'39	0°53'11	superior conj	9226 Aug 15 16:17	1°  ♊06'07	0°28'56
minimum elong	9225 Aug 31 07:42	16°  ♊31'18	0°52'42	minimum elong	9226 Aug 15 14:57	0°  ♊58'54	0°28'30
	9225 Sep 06 11:06	0°  ♋		evening rise	9226 Aug 22 16:04	16°  ♊12'30	
evening rise	9225 Sep 07 04:30	1°  ♋33'43			9226 Aug 29 11:19	0°  ♋	
	9225 Sep 22 12:12	0°  ♋		evening max el	9226 Sep 14 05:55	22°  ♋55'51	23°00'45
desc. node	9225 Sep 29 05:05	8°  ♋56'40		desc. node	9226 Sep 16 02:14	24°  ♋36'47	
evening max el	9225 Oct 02 18:59	12°  ♋44'13	24°40'01	retrograde	9226 Sep 27 13:26	29°  ♋34'32	
retrograde	9225 Oct 16 14:06	19°  ♋40'22		evening set	9226 Oct 01 10:19	29°  ♋01'48	
evening set	9225 Oct 21 22:45	18°  ♋36'16		min. Earth dist.	9226 Oct 08 14:44	25°  ♋45'04	0.55258 AU
min. Earth dist.	9225 Oct 27 06:06	15°  ♋49'41	0.56656 AU	inferior conj	9226 Oct 10 02:30	24°  ♋53'26	-5°33'31
inferior conj	9225 Oct 29 21:21	14°  ♋08'41	-5°32'51	minimum elong	9226 Oct 09 22:38	24°  ♋59'03	5°33'06
minimum elong	9225 Oct 30 01:02	14°  ♋02'47	5°32'21	morning rise	9226 Oct 18 12:54	21°  ♋03'49	
morning rise	9225 Nov 07 05:31	10°  ♋04'09		direct	9226 Oct 21 13:56	20°  ♋42'03	
direct	9225 Nov 09 18:23	9°  ♋46'30		morning max el	9226 Nov 01 16:14	25°  ♋54'46	20°44'46
morning max el	9225 Nov 19 07:18	14°  ♋18'15	19°27'35		9226 Nov 05 10:12	0°  ♋	
asc. node	9225 Nov 21 21:22	17°  ♋05'12		asc. node	9226 Nov 08 18:21	4°  ♋33'42	
	9225 Nov 30 07:11	0°  ♌		morning set	9226 Nov 20 20:24	26°  ♋44'20	
morning set	9225 Dec 06 12:54	12°  ♌03'08			9226 Nov 22 10:09	0°  ♌	
superior conj	9225 Dec 14 13:20	28°  ♌04'31	1°19'56	superior conj	9226 Nov 28 06:50	12°  ♌09'29	1°33'43
minimum elong	9225 Dec 14 16:14	28°  ♌18'42	1°19'54	minimum elong	9226 Nov 28 08:40	12°  ♌18'51	1°33'52
	9225 Dec 15 13:02	0°  ♍		max. Earth dist.	9226 Dec 03 07:12	22°  ♌10'52	1.35916 AU
max. Earth dist.	9225 Dec 20 23:11	10°  ♍14'22	1.37976 AU	evening rise	9226 Dec 07 05:57	29°  ♌40'50	
evening rise	9225 Dec 24 16:34	16°  ♍55'44			9226 Dec 07 10:06	0°  ♍	
desc. node	9225 Dec 26 03:51	19°  ♍29'37		desc. node	9226 Dec 13 00:53	10°  ♍01'02	
	9226 Jan 01 10:50	0°  ♍			9226 Dec 25 15:38	0°  ♍	
	9226 Jan 22 11:38	0°  ♍		evening max el	9227 Jan 11 18:10	21°  ♍14'22	26°13'22
evening max el	9226 Jan 29 04:58	7°  ♍27'24	25°06'08	retrograde	9227 Jan 24 12:23	28°  ♍28'31	
retrograde	9226 Feb 10 03:34	14°  ♍23'09		evening set	9227 Jan 30 17:51	25°  ♍57'03	
evening set	9226 Feb 15 20:57	12°  ♍00'27		min. Earth dist.	9227 Feb 03 22:27	21°  ♍33'25	0.66778 AU
asc. node	9226 Feb 17 20:25	10°  ♍03'52		asc. node	9227 Feb 04 17:33	20°  ♍34'57	
min. Earth dist.	9226 Feb 20 08:00	7°  ♍02'20	0.67752 AU	inferior conj	9227 Feb 05 13:49	19°  ♍32'23	0°16'43
inferior conj	9226 Feb 21 11:47	5°  ♍31'29	1°09'56	minimum elong	9227 Feb 05 13:22	19°  ♍33'44	0°16'44
minimum elong	9226 Feb 21 10:12	5°  ♍36'38	1°09'28	morning rise	9227 Feb 11 09:39	13°  ♍46'03	
	9226 Feb 26 10:34	30°  ♍		direct	9227 Feb 14 12:19	12°  ♍51'08	
morning rise	9226 Feb 26 23:47	29°  ♍35'43		morning max el	9227 Feb 21 03:43	16°  ♍26'41	18°38'35
direct	9226 Mar 02 13:32	28°  ♍22'21			9227 Mar 03 10:25	0°  ♍	
	9226 Mar 06 23:22	0°  ♍		desc. node	9227 Mar 11 00:39	11°  ♍45'40	
morning max el	9226 Mar 09 17:44	2°  ♍20'49	19°28'39	morning set	9227 Mar 14 07:09	16°  ♍54'04	
greatest brilliancy	9226 Mar 22 11:22	19°  ♍02'25	-0.7m		9227 Mar 22 15:27	0°  ♎	
desc. node	9226 Mar 24 03:46	21°  ♍32'39		max. Earth dist.	9227 Mar 29 20:55	11°  ♎18'40	1.45506 AU
	9226 Mar 29 17:51	0°  ♎					
morning set	9226 Apr 03 16:16	7° ♎03'41		superior conj	9227 Mar 30 12:29	12° ♎19'35	-1°54'37
max. Earth dist.	9226 Apr 16 03:19	26° ♎59'30	1.44808 AU	minimum elong	9227 Mar 30 03:50	11° ♎45'41	1°54'02
	9226 Apr 18 00:53	0° ♏			9227 Apr 10 17:46	0° ♏	

evening rise	9227 Apr 15 00:58	6°♄50'57		superior conj	9228 Mar 08 19:57	21°♄19'56	-1°19'59
greatest brilliancy	9227 Apr 22 23:08	19°♄29'37	-0.9m	minimum elong	9228 Mar 08 11:12	20°♄45'24	1°18'54
	9227 Apr 29 19:48	0°♄		max. Earth dist.	9228 Mar 11 16:39	25°♄50'06	1.45467 AU
asc. node	9227 May 03 16:09	5°♄13'22			9228 Mar 14 08:32	0°♄	
evening max el	9227 May 06 10:16	8°♄20'36	18°45'03	evening rise	9228 Mar 24 23:37	16°♄30'26	
retrograde	9227 May 13 01:29	11°♄59'40			9228 Apr 02 17:50	0°♄	
evening set	9227 May 16 08:21	10°♄57'52		greatest brilliancy	9228 Apr 06 22:40	6°♄21'20	-0.7m
inferior conj	9227 May 21 22:58	5°♄18'47	3°18'36	evening max el	9228 Apr 18 17:40	21°♄59'30	19°30'52
minimum elong	9227 May 21 23:43	5°♄16'29	3°18'17	asc. node	9228 Apr 19 13:15	22°♄47'13	
min. Earth dist.	9227 May 23 19:48	3°♄00'23	0.65606 AU	retrograde	9228 Apr 25 22:46	26°♄05'28	
	9227 May 26 12:29	30°♄		evening set	9228 Apr 29 13:55	24°♄48'28	
morning rise	9227 May 27 14:23	28°♄59'58		inferior conj	9228 May 04 23:33	18°♄54'26	3°20'00
direct	9227 Jun 03 02:09	26°♄14'04		minimum elong	9228 May 04 23:05	18°♄55'59	3°19'46
desc. node	9227 Jun 07 00:35	27°♄05'32		min. Earth dist.	9228 May 06 05:19	17°♄16'21	0.67002 AU
	9227 Jun 11 19:12	0°♄		morning rise	9228 May 10 07:53	12°♄35'35	
morning max el	9227 Jun 16 07:30	4°♄04'18	26°51'20	direct	9228 May 16 09:48	9°♄54'03	
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morning set	9227 Jul 22 02:08	27°♄52'01		morning max el	9228 May 28 17:28	17°♄16'38	25°39'08
	9227 Jul 23 04:46	0°♄			9228 Jun 08 08:07	0°♄	
max. Earth dist.	9227 Jul 26 08:05	6°♄11'10	1.34076 AU		9228 Jun 27 22:35	0°♄	
				morning set	9228 Jul 03 19:53	10°♄23'30	
superior conj	9227 Jul 30 17:05	15°♄09'05	0°00'42	max. Earth dist.	9228 Jul 07 12:58	17°♄17'49	1.35867 AU
minimum elong	9227 Jul 30 17:03	15°♄08'56	0°00'29				
behind sun begin	9227 Jul 30 11:21	14°♄39'09		superior conj	9228 Jul 13 09:25	28°♄44'05	-0°30'32
behind sun end	9227 Jul 30 22:46	15°♄38'46		minimum elong	9228 Jul 13 11:16	28°♄53'21	0°30'25
asc. node	9227 Jul 30 15:25	15°♄00'22			9228 Jul 14 00:31	0°♄	
	9227 Aug 06 17:52	0°♄		asc. node	9228 Jul 16 12:22	5°♄04'03	
evening rise	9227 Aug 07 02:15	0°♄44'00		evening rise	9228 Jul 21 08:54	15°♄02'04	
	9227 Aug 23 23:20	0°♄			9228 Jul 29 02:06	0°♄	
evening max el	9227 Aug 26 22:36	3°♄15'39	21°25'03	evening max el	9228 Aug 08 03:33	14°♄11'24	20°04'46
desc. node	9227 Sep 02 23:23	8°♄13'33		retrograde	9228 Aug 18 16:07	19°♄23'56	
retrograde	9227 Sep 08 02:42	9°♄17'48		desc. node	9228 Aug 19 20:31	19°♄20'14	
evening set	9227 Sep 10 15:44	9°♄02'58		evening set	9228 Aug 20 14:07	19°♄14'20	
inferior conj	9227 Sep 19 19:55	5°♄06'03	-4°38'24	inferior conj	9228 Aug 29 15:09	15°♄15'14	-2°57'09
minimum elong	9227 Sep 19 10:28	5°♄19'17	4°36'06	minimum elong	9228 Aug 29 07:14	15°♄27'04	2°54'27
min. Earth dist.	9227 Sep 19 23:02	5°♄01'41	0.54660 AU	min. Earth dist.	9228 Aug 31 08:57	14°♄12'49	0.55013 AU
morning rise	9227 Sep 28 06:00	1°♄15'05		morning rise	9228 Sep 06 23:03	11°♄02'50	
direct	9227 Oct 01 22:58	0°♄45'18		direct	9228 Sep 11 10:21	10°♄19'29	
morning max el	9227 Oct 14 12:34	6°♄43'37	22°21'18	morning max el	9228 Sep 25 01:18	17°♄00'13	24°07'40
asc. node	9227 Oct 26 15:19	22°♄51'12			9228 Oct 05 13:37	0°♄	
	9227 Oct 30 13:58	0°♄		asc. node	9228 Oct 12 12:16	11°♄45'10	
morning set	9227 Nov 05 06:58	11°♄32'33		morning set	9228 Oct 19 18:42	26°♄21'34	
					9228 Oct 21 11:24	0°♄	
superior conj	9227 Nov 12 08:41	26°♄37'26	1°40'05				
minimum elong	9227 Nov 12 09:14	26°♄40'23	1°40'19	superior conj	9228 Oct 26 15:59	11°♄19'02	1°39'51
	9227 Nov 13 23:07	0°♄		minimum elong	9228 Oct 26 15:21	11°♄15'37	1°40'01
max. Earth dist.	9227 Nov 15 22:17	4°♄04'41	1.34177 AU	max. Earth dist.	9228 Oct 28 21:43	16°♄09'27	1.32858 AU
evening rise	9227 Nov 20 10:34	13°♄06'19		evening rise	9228 Nov 03 02:38	27°♄01'30	
desc. node	9227 Nov 29 21:56	0°♄19'23			9228 Nov 04 14:19	0°♄	
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	9227 Dec 20 16:10	0°♄			9228 Nov 22 00:34	0°♄	
evening max el	9227 Dec 25 07:35	4°♄53'14	27°03'03	evening max el	9228 Dec 06 19:50	18°♄11'19	27°28'08
retrograde	9228 Jan 07 15:23	12°♄14'10		retrograde	9228 Dec 20 11:39	25°♄30'51	
evening set	9228 Jan 14 07:28	9°♄39'09		evening set	9228 Dec 27 11:18	22°♄59'14	
min. Earth dist.	9228 Jan 18 06:29	5°♄49'24	0.65443 AU	min. Earth dist.	9228 Dec 31 05:49	19°♄41'20	0.63779 AU
inferior conj	9228 Jan 20 09:28	3°♄24'55	-0°44'24	inferior conj	9229 Jan 02 20:07	17°♄01'51	-1°52'22
minimum elong	9228 Jan 20 10:46	3°♄21'14	0°43'37	minimum elong	9229 Jan 02 23:40	16°♄52'44	1°50'38
asc. node	9228 Jan 22 14:38	0°♄59'43		asc. node	9229 Jan 08 11:42	12°♄13'31	
	9228 Jan 23 15:08	30°♄		morning rise	9229 Jan 09 13:53	11°♄42'26	
morning rise	9228 Jan 26 15:21	27°♄50'29		direct	9229 Jan 12 00:04	11°♄13'27	
direct	9228 Jan 29 08:45	27°♄10'25		morning max el	9229 Jan 18 12:09	14°♄35'42	17°49'00
	9228 Feb 04 04:21	0°♄			9229 Jan 29 07:45	0°♄	
morning max el	9228 Feb 04 18:48	0°♄34'19	18°05'12	morning set	9229 Feb 04 02:13	9°♄49'02	
morning set	9228 Feb 23 02:59	27°♄41'42		desc. node	9229 Feb 11 18:27	22°♄49'38	
	9228 Feb 24 12:53	0°♄			9229 Feb 16 02:39	0°♄	
desc. node	9228 Feb 25 21:33	2°♄13'03					
				superior conj	9229 Feb 16 20:08	1°♄11'23	-0°36'43

































































































































minimum elong	9229 Feb 16 16:07	0° X 55'01	0°35'58	superior conj	9230 Jan 28 21:21	12° \approx 15'01	0°05'37
max. Earth dist.	9229 Feb 22 11:47	10° X 16'47	1.44692 AU	minimum elong	9230 Jan 28 21:53	12° \approx 17'18	0°05'45
evening rise	9229 Mar 04 11:18	25° X 50'49		behind sun begin	9230 Jan 28 13:48	11° \approx 42'44	
	9229 Mar 07 04:29	0° Y		behind sun end	9230 Jan 29 05:58	12° \approx 51'47	
	9229 Mar 27 22:23	0° B		desc. node	9230 Jan 29 15:20	13° \approx 31'39	
evening max el	9229 Apr 01 19:39	5° B 40'09	20°31'30	max. Earth dist.	9230 Feb 05 03:17	24° \approx 20'12	1.43273 AU
asc. node	9229 Apr 06 10:21	9° B 22'45			9230 Feb 08 15:41	0° X	
retrograde	9229 Apr 09 21:23	10° B 22'30		evening rise	9230 Feb 12 03:09	5° X 29'07	
evening set	9229 Apr 13 21:43	8° B 50'03			9230 Feb 28 12:30	0° Y	
inferior conj	9229 Apr 19 05:03	2° B 42'50	3°09'03	evening max el	9230 Mar 15 16:04	19° Y 21'15	21°43'41
minimum elong	9229 Apr 19 03:37	2° B 47'43	3°08'44	asc. node	9230 Mar 24 07:28	24° Y 44'19	
min. Earth dist.	9229 Apr 19 20:42	1° B 49'09	0.67941 AU	retrograde	9230 Mar 24 19:22	24° Y 45'33	
	9229 Apr 21 05:16	30° R Y		evening set	9230 Mar 29 05:56	22° Y 57'49	
morning rise	9229 Apr 24 09:19	26° Y 26'22		inferior conj	9230 Apr 03 13:12	16° Y 39'50	2°47'34
direct	9229 Apr 29 22:38	23° Y 58'13		minimum elong	9230 Apr 03 11:10	16° Y 46'54	2°47'04
	9229 May 10 11:02	0° B		min. Earth dist.	9230 Apr 03 15:52	16° Y 30'29	0.68429 AU
desc. node	9229 May 10 18:32	0° B 18'32		morning rise	9230 Apr 08 16:14	10° Y 27'16	
morning max el	9229 May 11 02:47	0° B 39'13	24°13'13	direct	9230 Apr 13 15:49	8° Y 18'10	
	9229 Jun 02 06:01	0° II		morning max el	9230 Apr 23 13:13	14° Y 08'55	22°43'25
morning set	9229 Jun 15 18:21	21° II 59'18		desc. node	9230 Apr 27 15:27	18° Y 39'46	
max. Earth dist.	9229 Jun 19 10:49	28° II 29'08	1.38004 AU		9230 May 06 08:37	0° B	
	9229 Jun 20 07:00	0° C			9230 May 26 04:36	0° II	
				morning set	9230 May 27 16:10	2° II 25'27	
superior conj	9229 Jun 26 13:59	11° C 42'52	-1°03'00	max. Earth dist.	9230 Jun 01 07:51	10° II 13'10	1.40269 AU
minimum elong	9229 Jun 26 18:00	12° C 02'08	1°02'36				
asc. node	9229 Jul 03 09:20	25° C 01'26		superior conj	9230 Jun 09 02:31	23° II 54'38	-1°33'54
evening rise	9229 Jul 05 09:31	28° C 59'55		minimum elong	9230 Jun 09 08:19	24° II 20'56	1°33'29
	9229 Jul 05 21:42	0° O			9230 Jun 12 10:04	0° C	
evening max el	9229 Jul 21 21:38	25° O 52'46	19°04'51	evening rise	9230 Jun 19 00:51	12° C 28'17	
	9229 Jul 28 11:55	0° P		asc. node	9230 Jun 20 06:19	14° C 47'45	
retrograde	9229 Jul 30 18:43	0° P 17'06			9230 Jun 28 19:07	0° O	
evening set	9229 Aug 01 16:09	0° P 05'54		evening max el	9230 Jul 05 01:57	8° O 14'39	18°25'56
	9229 Aug 02 03:03	30° R O		retrograde	9230 Jul 12 16:01	12° O 02'25	
desc. node	9229 Aug 06 17:39	28° O 01'38		evening set	9230 Jul 14 19:32	11° O 45'01	
inferior conj	9229 Aug 10 01:35	25° O 52'17	-1°01'35	inferior conj	9230 Jul 22 09:20	7° O 11'50	0°39'47
minimum elong	9229 Aug 09 22:55	25° O 56'52	1°00'43	minimum elong	9230 Jul 22 10:43	7° O 09'03	0°39'02
min. Earth dist.	9229 Aug 12 22:36	23° O 54'35	0.56256 AU	desc. node	9230 Jul 24 14:47	5° O 24'07	
morning rise	9229 Aug 18 02:37	21° O 04'10		min. Earth dist.	9230 Jul 25 17:56	4° O 31'07	0.58153 AU
direct	9229 Aug 23 09:27	19° O 59'02		morning rise	9230 Jul 29 22:25	1° O 47'19	
morning max el	9229 Sep 06 14:11	27° O 14'33	25°48'03	direct	9230 Aug 04 23:09	0° O 12'44	
	9229 Sep 09 06:38	0° P		morning max el	9230 Aug 19 08:25	7° O 53'47	27°05'39
	9229 Sep 28 19:40	0° A			9230 Sep 05 00:12	0° P	
asc. node	9229 Sep 29 09:12	1° A 06'19		asc. node	9230 Sep 16 06:06	20° P 46'36	
morning set	9229 Oct 04 05:57	11° A 06'50		morning set	9230 Sep 18 15:04	25° P 43'02	
					9230 Sep 20 15:03	0° A	
superior conj	9229 Oct 11 02:30	26° A 07'37	1°33'38				
minimum elong	9229 Oct 11 00:57	25° A 59'02	1°33'38	superior conj	9230 Sep 25 14:16	10° A 56'43	1°21'56
max. Earth dist.	9229 Oct 12 03:47	28° A 27'08	1.31994 AU	minimum elong	9230 Sep 25 12:10	10° A 44'59	1°21'42
	9229 Oct 12 20:40	0° M		max. Earth dist.	9230 Sep 25 13:13	10° A 50'51	1.31591 AU
evening rise	9229 Oct 18 03:05	11° M 18'22		evening rise	9230 Oct 02 09:19	25° A 49'24	
	9229 Oct 27 19:27	0° X			9230 Oct 04 09:08	0° M	
desc. node	9229 Nov 02 16:05	9° X 47'40		desc. node	9230 Oct 20 13:12	28° M 38'05	
	9229 Nov 18 05:42	0° B			9230 Oct 21 11:56	0° X	
evening max el	9229 Nov 19 04:33	0° B 55'17	27°22'36	evening max el	9230 Nov 01 07:12	12° X 53'59	26°43'19
retrograde	9229 Dec 03 00:36	8° B 09'42		retrograde	9230 Nov 15 05:21	20° X 02'17	
evening set	9229 Dec 10 02:14	5° B 50'29		evening set	9230 Nov 22 00:16	18° X 06'05	
min. Earth dist.	9229 Dec 13 18:50	2° B 58'51	0.61843 AU	min. Earth dist.	9230 Nov 25 21:14	15° X 29'39	0.59748 AU
inferior conj	9229 Dec 16 18:42	0° B 15'35	-3°04'24	inferior conj	9230 Nov 29 01:49	12° X 57'26	-4°14'39
minimum elong	9229 Dec 17 00:40	0° B 01'59	3°01'56	minimum elong	9230 Nov 29 09:21	12° X 42'24	4°12'15
	9229 Dec 17 01:32	30° R X		morning rise	9230 Dec 06 20:59	8° X 17'43	
morning rise	9229 Dec 24 01:26	25° X 14'35		direct	9230 Dec 09 01:13	8° X 00'17	
direct	9229 Dec 26 06:55	24° X 53'04		asc. node	9230 Dec 13 05:49	9° X 08'28	
asc. node	9229 Dec 26 08:47	24° X 53'05		morning max el	9230 Dec 16 16:54	11° X 47'03	18°11'35
morning max el	9230 Jan 02 04:40	28° X 22'56	17°50'42		9230 Dec 28 19:15	0° B	
	9230 Jan 03 16:53	0° B		morning set	9231 Jan 01 10:05	6° B 45'23	
morning set	9230 Jan 17 22:34	22° B 56'05					
	9230 Jan 21 21:08	0° \approx		superior conj	9231 Jan 10 22:41	24° B 27'19	0°41'14

minimum elong	9231 Jan 11 01:32	24°  40'12	0°41'05	superior conj	9231 Dec 24 19:22	7°  33'58	1°08'17
	9231 Jan 14 01:24	0° 		minimum elong	9231 Dec 24 22:36	7°  49'23	1°08'10
desc. node	9231 Jan 16 12:16	4°  15'55		max. Earth dist.	9231 Dec 31 20:16	20°  31'11	1.39232 AU
max. Earth dist.	9231 Jan 18 13:42	7°  46'41	1.41377 AU	desc. node	9232 Jan 03 09:14	24°  58'18	
evening rise	9231 Jan 23 11:44	15°  55'12		evening rise	9232 Jan 04 17:58	27°  18'53	
	9231 Feb 01 11:22	0° 			9232 Jan 06 08:04	0° 	
	9231 Feb 23 11:04	0° 			9232 Jan 26 00:37	0° 	
evening max el	9231 Feb 26 08:15	3°  05'04	23°02'42	evening max el	9232 Feb 08 22:09	16°  52'10	24°22'36
retrograde	9231 Mar 08 15:09	9°  10'34		retrograde	9232 Feb 20 07:19	23°  32'06	
asc. node	9231 Mar 11 04:37	8°  38'18		evening set	9232 Feb 25 17:26	21°  31'62	
evening set	9231 Mar 13 13:02	7°  08'16		asc. node	9232 Feb 26 01:47	20°  58'06	
inferior conj	9231 Mar 18 22:05	0°  42'46	2°16'38	min. Earth dist.	9232 Mar 01 08:46	15°  58'09	0.68136 AU
minimum elong	9231 Mar 18 19:51	0°  50'28	2°16'00	inferior conj	9232 Mar 02 05:48	14°  47'31	1°36'48
min. Earth dist.	9231 Mar 18 12:40	1°  15'18	0.68487 AU	minimum elong	9232 Mar 02 03:50	14°  54'07	1°36'12
	9231 Mar 19 10:28	30°  R 		morning rise	9232 Mar 07 14:20	8°  46'52	
morning rise	9231 Mar 24 02:34	24°  35'24		direct	9232 Mar 11 11:09	7°  42'23	
direct	9231 Mar 28 12:26	22°  48'02		morning max el	9232 Mar 19 02:07	11°  38'48	20°04'33
morning max el	9231 Apr 06 04:04	27°  48'11	21°18'26	desc. node	9232 Mar 31 09:14	27°  43'39	
	9231 Apr 08 05:48	0° 			9232 Apr 02 03:58	0° 	
desc. node	9231 Apr 14 12:20	7°  46'05		morning set	9232 Apr 15 10:41	20°  01'53	
	9231 Apr 29 22:28	0° 			9232 Apr 21 20:20	0° 	
morning set	9231 May 07 10:56	11°  37'54		max. Earth dist.	9232 Apr 25 19:18	6°  16'15	1.44096 AU
max. Earth dist.	9231 May 14 09:52	22°  48'47	1.42387 AU				
	9231 May 18 17:39	0° 		superior conj	9232 May 01 10:17	15°  21'21	-2°11'52
				minimum elong	9232 May 01 11:57	15°  28'12	2°12'02
superior conj	9231 May 21 18:31	5°  11'09'59	-1°58'51		9232 May 10 04:56	0° 	
minimum elong	9231 May 22 00:10	5°  11'34'16	1°58'42	evening rise	9232 May 14 10:59	7°  11'16'46	
evening rise	9231 Jun 02 02:56	25°  11'17'39		asc. node	9232 May 24 00:25	23°  11'27'26	
	9231 Jun 04 17:27	0° 			9232 May 28 09:16	0° 	
asc. node	9231 Jun 07 03:21	4°  18'28		evening max el	9232 Jun 01 02:09	4°  18'24'13	18°07'29
evening max el	9231 Jun 18 12:42	21°  08'29	18°07'06	retrograde	9232 Jun 07 11:39	7°  18'44'37	
retrograde	9231 Jun 25 06:57	24°  13'45'52		evening set	9232 Jun 10 06:39	7°  13'04'56	
evening set	9231 Jun 27 18:17	24°  13'07'35		inferior conj	9232 Jun 16 11:56	1°  13'52'23	2°43'59
inferior conj	9231 Jul 04 13:59	19°  14'12	1°54'58	minimum elong	9232 Jun 16 14:32	1°  13'45'29	2°43'09
minimum elong	9231 Jul 04 16:52	19°  14'07'27	1°53'49		9232 Jun 18 06:05	30°  R 	
min. Earth dist.	9231 Jul 07 20:36	16°  12'07	0.60380 AU	min. Earth dist.	9232 Jun 19 07:55	28°  12'52'55	0.62609 AU
desc. node	9231 Jul 11 11:52	13°  12'23'39		morning rise	9232 Jun 22 20:39	25°  12'43'56	
morning rise	9231 Jul 11 12:40	13°  12'22'23		desc. node	9232 Jun 27 08:56	23°  12'30'30	
direct	9231 Jul 18 01:49	11°  12'17'12		direct	9232 Jun 29 14:32	23°  12'14'34	
morning max el	9231 Aug 01 09:27	19°  13'44	27°48'48		9232 Jul 12 08:23	0° 	
	9231 Aug 10 12:38	0° 		morning max el	9232 Jul 13 16:05	1°  13'16'59	27°53'44
	9231 Aug 28 19:37	0° 			9232 Aug 03 17:42	0° 	
morning set	9231 Sep 02 20:15	10°  11'04'58		morning set	9232 Aug 16 19:27	24°  11'07'02	
asc. node	9231 Sep 03 03:01	10°  11'40'13		asc. node	9232 Aug 19 23:57	0° 	
max. Earth dist.	9231 Sep 08 22:28	23°  11'11'17	1.31661 AU		9232 Aug 19 15:54	0° 	
				max. Earth dist.	9232 Aug 22 03:47	5°  11'18'08	1.32213 AU
superior conj	9231 Sep 10 01:30	25°  11'40'36	1°05'05				
minimum elong	9231 Sep 09 23:17	25°  11'28'16	1°04'40	superior conj	9232 Aug 24 10:22	10°  11'13'45	0°43'27
	9231 Sep 12 00:20	0° 		minimum elong	9232 Aug 24 08:32	10°  11'03'46	0°42'59
evening rise	9231 Sep 16 19:11	10°  11'28'18		evening rise	9232 Aug 31 06:43	25°  11'09'28	
	9231 Sep 26 16:18	0° 			9232 Sep 02 13:42	0° 	
desc. node	9231 Oct 07 10:21	16°  11'32'53			9232 Sep 20 11:40	0° 	
evening max el	9231 Oct 14 02:02	24°  11'02'01	25°32'05	desc. node	9232 Sep 23 07:31	3°  11'10'45	
	9231 Oct 22 18:42	0° 		evening max el	9232 Sep 24 14:19	4°  11'27'58	23°58'30
retrograde	9231 Oct 27 23:53	1°  11'27'03'12		retrograde	9232 Oct 08 05:54	11°  11'17'43	
	9231 Nov 02 04:54	30°  R 		evening set	9232 Oct 13 00:02	10°  11'28'14	
evening set	9231 Nov 03 00:28	29°  11'39'17		min. Earth dist.	9232 Oct 19 00:53	7°  11'30'51	0.55985 AU
min. Earth dist.	9231 Nov 07 14:20	27°  11'01'33	0.57702 AU	inferior conj	9232 Oct 21 06:07	6°  11'10'02	-5°39'26
inferior conj	9231 Nov 10 14:08	24°  11'57'35	-5°12'11	minimum elong	9232 Oct 21 06:51	6°  11'08'55	5°39'16
minimum elong	9231 Nov 10 20:30	24°  11'46'32	5°10'54	morning rise	9232 Oct 29 15:40	2°  11'12'53	
morning rise	9231 Nov 18 18:51	20°  11'40'19		direct	9232 Nov 01 09:17	1°  11'53'45	
direct	9231 Nov 21 02:47	20°  11'23'41		morning max el	9232 Nov 11 13:33	6°  11'42'04	19°57'36
morning max el	9231 Nov 29 21:02	24°  11'36'44	18°53'22	asc. node	9232 Nov 15 23:51	11°  11'45'38	
asc. node	9231 Nov 30 02:51	24°  11'50'55			9232 Nov 26 17:24	0° 	
	9231 Dec 04 09:47	0° 		morning set	9232 Nov 29 12:49	5°  11'27'59	
morning set	9231 Dec 16 07:59	21°  11'27'02'35					
	9231 Dec 20 21:20	0° 		superior conj	9232 Dec 07 06:32	21°  11'27'34	1°26'43

minimum elong	9232 Dec 07 09:02	21° ♄ 34'02	1°26'47	superior conj	9233 Nov 21 03:59	5° ♄ 37'28	1°37'16
	9232 Dec 11 16:35	0° ♄		minimum elong	9233 Nov 21 05:17	5° ♄ 44'12	1°37'28
max. Earth dist.	9232 Dec 13 02:46	2° ♄ 42'05	1.37080 AU	max. Earth dist.	9233 Nov 25 13:40	14° ♄ 36'08	1.35135 AU
evening rise	9232 Dec 16 20:59	9° ♄ 37'07		evening rise	9233 Nov 29 17:18	22° ♄ 40'16	
desc. node	9232 Dec 20 06:15	15° ♄ 35'13			9233 Dec 03 16:43	0° ♄	
	9232 Dec 29 01:18	0° ♄		desc. node	9233 Dec 07 03:17	6° ♄ 01'40	
	9233 Jan 20 18:55	0° ♄			9233 Dec 22 18:56	0° ♄	
evening max el	9233 Jan 21 11:28	0° ♄ 41'05	25°36'23	evening max el	9234 Jan 04 00:48	14° ♄ 25'34	26°36'56
retrograde	9233 Feb 02 18:54	7° ♄ 45'13		retrograde	9234 Jan 17 01:11	21° ♄ 43'22	
evening set	9233 Feb 08 17:33	5° ♄ 18'28		evening set	9234 Jan 23 11:37	19° ♄ 09'26	
asc. node	9233 Feb 11 22:55	1° ♄ 58'07		min. Earth dist.	9234 Jan 27 13:41	15° ♄ 00'39	0.66261 AU
min. Earth dist.	9233 Feb 13 01:51	0° ♄ 35'02	0.67391 AU	inferior conj	9234 Jan 29 10:04	12° ♄ 48'40	-0°08'17
	9233 Feb 13 12:53	30° ♄		minimum elong	9234 Jan 29 10:18	12° ♄ 48'00	0°07'58
inferior conj	9233 Feb 14 10:29	28° ♄ 50'53	0°48'23	transit middle	9234 Jan 29 10:18	12° ♄ 48'00	0°07'58
minimum elong	9233 Feb 14 09:19	28° ♄ 54'37	0°48'05	transit begin	9234 Jan 29 07:46	12° ♄ 55'34	
morning rise	9233 Feb 20 01:31	22° ♄ 58'49		transit end	9234 Jan 29 12:50	12° ♄ 40'28	
direct	9233 Feb 23 10:29	21° ♄ 53'30		asc. node	9234 Jan 29 20:02	12° ♄ 19'04	
morning max el	9233 Mar 02 08:05	25° ♄ 40'19	19°05'19	morning rise	9234 Feb 04 09:57	7° ♄ 07'19	
	9233 Mar 06 03:31	0° ♄		direct	9234 Feb 07 08:30	6° ♄ 19'09	
greatest brilliancy	9233 Mar 15 18:44	13° ♄ 41'10	-0.7m	morning max el	9234 Feb 13 20:37	9° ♄ 48'04	18°22'20
desc. node	9233 Mar 18 06:07	17° ♄ 26'58			9234 Feb 28 05:50	0° ♄	
morning set	9233 Mar 25 13:33	28° ♄ 43'14		desc. node	9234 Mar 05 03:00	7° ♄ 46'40	
	9233 Mar 26 09:22	0° ♄		morning set	9234 Mar 05 16:14	8° ♄ 39'29	
max. Earth dist.	9233 Apr 08 11:09	20° ♄ 23'12	1.45198 AU		9234 Mar 19 04:03	0° ♄	
superior conj	9233 Apr 11 03:09	24° ♄ 35'22	-2°06'49	superior conj	9234 Mar 21 08:39	3° ♄ 25'59	-1°41'39
minimum elong	9233 Apr 10 21:40	24° ♄ 13'43	2°06'42	minimum elong	9234 Mar 20 23:04	2° ♄ 48'28	1°40'45
	9233 Apr 14 13:00	0° ♄		max. Earth dist.	9234 Mar 22 06:26	4° ♄ 51'13	1.45580 AU
evening rise	9233 Apr 25 20:41	18° ♄ 17'53		evening rise	9234 Apr 06 06:55	28° ♄ 22'52	
	9233 May 03 00:21	0° ♄			9234 Apr 07 07:37	0° ♄	
asc. node	9233 May 10 21:31	12° ♄ 07'06		greatest brilliancy	9234 Apr 16 12:45	14° ♄ 25'02	-0.8m
evening max el	9233 May 15 15:05	17° ♄ 53'10	18°26'15	asc. node	9234 Apr 27 18:37	0° ♄ 08'18	
retrograde	9233 May 22 01:40	21° ♄ 21'47			9234 Apr 27 15:40	0° ♄	
evening set	9233 May 25 04:10	20° ♄ 28'12		evening max el	9234 Apr 29 00:59	1° ♄ 29'22	19°02'33
inferior conj	9233 May 30 23:03	14° ♄ 58'07	3°11'07	retrograde	9234 May 05 21:15	5° ♄ 18'52	
minimum elong	9233 May 31 00:32	14° ♄ 53'44	3°10'40	evening set	9234 May 09 07:32	4° ♄ 10'36	
min. Earth dist.	9233 Jun 02 04:33	12° ♄ 20'53	0.64610 AU		9234 May 13 13:18	30° ♄	
morning rise	9233 Jun 05 19:56	8° ♄ 41'20		inferior conj	9234 May 14 19:38	28° ♄ 24'41	3°20'51
direct	9233 Jun 12 11:27	5° ♄ 58'24		minimum elong	9234 May 14 19:50	28° ♄ 24'02	3°20'37
desc. node	9233 Jun 14 05:58	6° ♄ 08'46		min. Earth dist.	9234 May 16 09:53	26° ♄ 22'47	0.66246 AU
morning max el	9233 Jun 26 02:02	13° ♄ 56'31	27°22'53	morning rise	9234 May 20 07:38	22° ♄ 05'18	
	9233 Jul 09 01:37	0° ♄		direct	9234 May 26 15:28	19° ♄ 20'15	
	9233 Jul 27 09:10	0° ♄		desc. node	9234 Jun 01 02:57	20° ♄ 59'47	
morning set	9233 Jul 31 09:58	7° ♄ 41'10		morning max el	9234 Jun 08 12:43	27° ♄ 00'57	26°23'06
max. Earth dist.	9233 Aug 05 01:25	17° ♄ 01'41	1.33256 AU		9234 Jun 11 07:35	0° ♄	
asc. node	9233 Aug 06 20:52	20° ♄ 47'59			9234 Jul 02 17:02	0° ♄	
superior conj	9233 Aug 08 14:43	24° ♄ 29'13	0°17'26	morning set	9234 Jul 14 12:30	20° ♄ 38'43	
minimum elong	9233 Aug 08 13:52	24° ♄ 24'39	0°17'04	max. Earth dist.	9234 Jul 18 12:30	28° ♄ 18'57	1.34783 AU
	9233 Aug 11 04:32	0° ♄			9234 Jul 19 09:01	0° ♄	
evening rise	9233 Aug 15 17:56	9° ♄ 46'05		superior conj	9234 Jul 23 12:14	8° ♄ 20'44	-0°12'15
	9233 Aug 26 04:43	0° ♄		minimum elong	9234 Jul 23 12:56	8° ♄ 24'22	0°12'21
evening max el	9233 Sep 06 02:31	14° ♄ 38'19	22°18'44	behind sun begin	9234 Jul 23 09:07	8° ♄ 04'43	
desc. node	9233 Sep 10 04:41	18° ♄ 02'37		behind sun end	9234 Jul 23 16:46	8° ♄ 44'02	
retrograde	9233 Sep 18 23:56	21° ♄ 03'44		asc. node	9234 Jul 24 17:49	10° ♄ 53'21	
evening set	9233 Sep 22 06:11	20° ♄ 40'15		evening rise	9234 Jul 31 02:52	24° ♄ 12'28	
min. Earth dist.	9233 Sep 30 08:36	17° ♄ 06'34	0.54899 AU		9234 Aug 02 22:44	0° ♄	
inferior conj	9233 Oct 01 04:53	16° ♄ 38'01	-5°17'03	evening max el	9234 Aug 18 23:44	25° ♄ 10'01	20°48'34
minimum elong	9233 Sep 30 21:55	16° ♄ 47'49	5°15'56		9234 Aug 25 23:14	0° ♄	
morning rise	9233 Oct 09 15:23	12° ♄ 50'40		desc. node	9234 Aug 28 01:48	0° ♄ 37'39	
direct	9233 Oct 12 23:04	12° ♄ 25'59		retrograde	9234 Aug 30 12:10	0° ♄ 52'35	
morning max el	9233 Oct 24 16:45	17° ♄ 57'09	21°23'48	evening set	9234 Sep 01 16:25	0° ♄ 41'10	
asc. node	9233 Nov 02 20:49	29° ♄ 36'25			9234 Sep 04 06:46	30° ♄	
	9233 Nov 03 02:44	0° ♄		inferior conj	9234 Sep 10 21:10	26° ♄ 44'39	-3°59'29
morning set	9233 Nov 13 21:53	20° ♄ 23'05		minimum elong	9234 Sep 10 11:32	26° ♄ 58'23	3°56'40
	9233 Nov 18 11:33	0° ♄		min. Earth dist.	9234 Sep 11 17:18	26° ♄ 15'55	0.54691 AU
				morning rise	9234 Sep 19 06:42	22° ♄ 46'56	

direct	9234 Sep 23 06:55	22° \mathbb{M} 12'29		morning rise	9235 Aug 30 03:09	2° \mathbb{M} 35'31	
morning max el	9234 Oct 06 09:08	28° \mathbb{M} 29'33	23°06'10	direct	9235 Sep 03 22:40	1° \mathbb{M} 43'48	
	9234 Oct 07 21:53	0° \mathbb{L}		morning max el	9235 Sep 17 21:04	8° \mathbb{M} 41'24	24°52'08
asc. node	9234 Oct 20 17:45	18° \mathbb{L} 10'13			9235 Oct 03 15:02	0° \mathbb{L}	
	9234 Oct 26 21:20	0° \mathbb{M}		asc. node	9235 Oct 07 14:41	7° \mathbb{L} 16'36	
morning set	9234 Oct 29 09:08	5° \mathbb{M} 11'59		morning set	9235 Oct 13 20:51	20° \mathbb{L} 00'00	
					9235 Oct 18 11:12	0° \mathbb{M}	
superior conj	9234 Nov 05 08:27	20° \mathbb{M} 12'03	1°40'46	superior conj	9235 Oct 20 17:24	4° \mathbb{M} 57'50	1°37'56
minimum elong	9234 Nov 05 08:29	20° \mathbb{M} 12'13	1°40'58	minimum elong	9235 Oct 20 16:21	4° \mathbb{M} 52'02	1°38'01
max. Earth dist.	9234 Nov 08 08:08	26° \mathbb{M} 32'29	1.33560 AU	max. Earth dist.	9235 Oct 22 10:30	8° \mathbb{M} 42'18	1.32429 AU
	9234 Nov 10 00:05	0° \mathbb{X}		evening rise	9235 Oct 27 23:10	20° \mathbb{M} 24'46	
evening rise	9234 Nov 13 03:09	6° \mathbb{X} 19'00			9235 Nov 01 19:29	0° \mathbb{X}	
desc. node	9234 Nov 24 00:20	26° \mathbb{X} 12'02		desc. node	9235 Nov 10 21:23	15° \mathbb{X} 59'34	
	9234 Nov 26 07:43	0° \mathbb{Z}			9235 Nov 20 09:35	0° \mathbb{Z}	
evening max el	9234 Dec 17 13:40	27° \mathbb{Z} 56'01	27°17'01	evening max el	9235 Nov 30 00:45	11° \mathbb{Z} 01'46	27°29'50
	9234 Dec 19 20:40	0° \mathbb{A}		retrograde	9235 Dec 13 19:10	18° \mathbb{Z} 20'03	
retrograde	9234 Dec 31 01:33	5° \mathbb{A} 17'53		evening set	9235 Dec 20 20:17	15° \mathbb{Z} 52'34	
evening set	9235 Jan 06 21:25	2° \mathbb{A} 42'59		min. Earth dist.	9235 Dec 24 13:30	12° \mathbb{Z} 46'35	0.62979 AU
	9235 Jan 09 21:57	30° \mathbb{R} \mathbb{Z}		inferior conj	9235 Dec 27 08:11	10° \mathbb{Z} 03'46	-2°22'40
min. Earth dist.	9235 Jan 10 18:11	29° \mathbb{Z} 07'25	0.64772 AU	minimum elong	9235 Dec 27 12:47	9° \mathbb{Z} 52'30	2°20'34
inferior conj	9235 Jan 13 02:13	26° \mathbb{Z} 35'01	-1°12'34	morning rise	9236 Jan 03 07:25	4° \mathbb{Z} 51'41	
minimum elong	9235 Jan 13 04:25	26° \mathbb{Z} 29'00	1°11'22	asc. node	9236 Jan 03 14:12	4° \mathbb{Z} 45'58	
asc. node	9235 Jan 16 17:08	22° \mathbb{Z} 58'07		direct	9236 Jan 05 15:07	4° \mathbb{Z} 26'25	
morning rise	9235 Jan 19 13:00	21° \mathbb{Z} 06'54		morning max el	9236 Jan 12 06:33	7° \mathbb{Z} 51'13	17°47'25
direct	9235 Jan 22 02:58	20° \mathbb{Z} 32'08			9236 Jan 26 21:13	0° \mathbb{A}	
morning max el	9235 Jan 28 13:05	23° \mathbb{Z} 54'14	17°56'11	morning set	9236 Jan 28 09:27	2° \mathbb{A} 38'23	
	9235 Feb 02 12:19	0° \mathbb{A}		desc. node	9236 Feb 06 20:47	18° \mathbb{A} 57'40	
morning set	9235 Feb 15 00:20	20° \mathbb{A} 02'41					
desc. node	9235 Feb 19 23:53	28° \mathbb{A} 18'13		superior conj	9236 Feb 09 08:07	23° \mathbb{A} 05'46	-0°18'14
	9235 Feb 21 00:39	0° \mathbb{H}		minimum elong	9236 Feb 09 06:15	22° \mathbb{A} 58'01	0°17'46
superior conj	9235 Feb 28 21:32	12° \mathbb{H} 43'53	-1°02'03		9236 Feb 13 13:05	0° \mathbb{H}	
minimum elong	9235 Feb 28 14:32	12° \mathbb{H} 15'57	1°01'02	max. Earth dist.	9236 Feb 15 19:18	3° \mathbb{H} 38'31	1.44161 AU
max. Earth dist.	9235 Mar 05 01:51	19° \mathbb{H} 21'10	1.45218 AU	evening rise	9236 Feb 24 10:48	17° \mathbb{H} 13'10	
	9235 Mar 11 21:32	0° \mathbb{Y}			9236 Mar 03 21:02	0° \mathbb{Y}	
evening rise	9235 Mar 16 23:09	7° \mathbb{Y} 49'16		evening max el	9236 Mar 25 05:41	28° \mathbb{Y} 49'34	21°01'02
greatest brilliancy	9235 Mar 31 12:27	29° \mathbb{Y} 49'48	-0.6m		9236 Mar 26 10:42	0° \mathbb{B}	
	9235 Mar 31 15:15	0° \mathbb{B}		asc. node	9236 Mar 31 12:50	3° \mathbb{B} 24'46	
evening max el	9235 Apr 12 06:03	15° \mathbb{B} 08'29	19°55'00	retrograde	9236 Apr 02 17:55	3° \mathbb{B} 49'19	
asc. node	9235 Apr 14 15:43	17° \mathbb{B} 18'49		evening set	9236 Apr 06 22:25	2° \mathbb{B} 10'32	
retrograde	9235 Apr 19 19:25	19° \mathbb{B} 29'28			9236 Apr 09 03:29	30° \mathbb{R} \mathbb{Y}	
evening set	9235 Apr 23 14:15	18° \mathbb{B} 06'04		inferior conj	9236 Apr 12 05:30	25° \mathbb{Y} 58'36	3°01'08
inferior conj	9235 Apr 28 22:35	12° \mathbb{B} 06'08	3°16'43	minimum elong	9236 Apr 12 03:46	26° \mathbb{Y} 04'35	3°00'44
minimum elong	9235 Apr 28 21:41	12° \mathbb{B} 09'12	3°16'29	min. Earth dist.	9236 Apr 12 15:36	25° \mathbb{Y} 23'37	0.68210 AU
min. Earth dist.	9235 Apr 29 22:15	10° \mathbb{B} 46'30	0.67453 AU	morning rise	9236 Apr 17 08:54	19° \mathbb{Y} 43'30	
morning rise	9235 May 04 04:48	5° \mathbb{B} 47'46		direct	9236 Apr 22 16:32	17° \mathbb{Y} 22'38	
direct	9235 May 10 01:31	3° \mathbb{B} 10'54		morning max el	9236 May 03 07:36	23° \mathbb{Y} 42'52	23°34'45
desc. node	9235 May 18 23:56	7° \mathbb{B} 32'39		desc. node	9236 May 04 20:54	25° \mathbb{Y} 20'31	
morning max el	9235 May 21 22:22	10° \mathbb{B} 18'12	25°03'38		9236 May 08 21:22	0° \mathbb{B}	
	9235 Jun 06 13:16	0° \mathbb{I}			9236 May 29 22:47	0° \mathbb{I}	
	9235 Jun 25 08:44	0° \mathbb{E}		morning set	9236 Jun 07 11:11	13° \mathbb{I} 54'44	
morning set	9235 Jun 26 22:40	2° \mathbb{E} 47'46		max. Earth dist.	9236 Jun 11 09:28	20° \mathbb{I} 40'56	1.38970 AU
max. Earth dist.	9235 Jun 30 13:18	9° \mathbb{E} 21'27	1.36738 AU		9236 Jun 16 14:04	0° \mathbb{E}	
superior conj	9235 Jul 06 23:57	21° \mathbb{E} 40'35	-0°44'17	superior conj	9236 Jun 18 22:14	4° \mathbb{E} 20'19	-1°16'32
minimum elong	9235 Jul 07 02:42	21° \mathbb{E} 54'11	0°44'03	minimum elong	9236 Jun 19 03:07	4° \mathbb{E} 43'13	1°16'06
	9235 Jul 11 04:01	0° \mathbb{O}		asc. node	9236 Jun 27 11:44	20° \mathbb{E} 47'03	
asc. node	9235 Jul 11 14:46	0° \mathbb{O} 54'19		evening rise	9236 Jun 28 04:18	22° \mathbb{E} 07'34	
evening rise	9235 Jul 15 07:14	8° \mathbb{O} 21'58			9236 Jul 02 06:50	0° \mathbb{O}	
	9235 Jul 27 05:38	0° \mathbb{M}		evening max el	9236 Jul 14 09:25	18° \mathbb{O} 24'06	18°45'49
evening max el	9235 Aug 01 10:27	6° \mathbb{M} 24'44	19°36'47	retrograde	9236 Jul 22 15:43	22° \mathbb{O} 30'36	
retrograde	9235 Aug 11 05:51	11° \mathbb{M} 15'48		evening set	9236 Jul 24 15:30	22° \mathbb{O} 17'10	
evening set	9235 Aug 13 02:05	11° \mathbb{M} 06'17		desc. node	9236 Jul 31 20:04	18° \mathbb{O} 33'09	
desc. node	9235 Aug 14 22:55	10° \mathbb{M} 38'24		inferior conj	9236 Aug 01 16:39	17° \mathbb{O} 55'46	-0°15'44
inferior conj	9235 Aug 21 21:34	7° \mathbb{M} 02'30	-2°07'56	minimum elong	9236 Aug 01 16:01	17° \mathbb{O} 56'57	0°15'41
minimum elong	9235 Aug 21 15:46	7° \mathbb{M} 11'37	2°05'51	transit middle	9236 Aug 01 16:01	17° \mathbb{O} 56'57	0°15'41
min. Earth dist.	9235 Aug 24 04:57	5° \mathbb{M} 35'25	0.55436 AU	transit begin	9236 Aug 01 15:10	17° \mathbb{O} 58'29	

transit end	9236 Aug 01 16:51	17° Ω 55'25		minimum elong	9237 Jul 14 11:58	29° \mathfrak{D} 29'05	1°14'02
min. Earth dist.	9236 Aug 04 20:41	15° Ω 37'31	0.57001 AU	min. Earth dist.	9237 Jul 17 18:39	26° \mathfrak{D} 41'38	0.59082 AU
morning rise	9236 Aug 09 13:07	12° Ω 51'48		desc. node	9237 Jul 18 17:12	25° \mathfrak{D} 57'04	
direct	9236 Aug 15 04:21	11° Ω 34'31		morning rise	9237 Jul 21 16:45	23° \mathfrak{D} 56'50	
morning max el	9236 Aug 29 11:31	19° Ω 01'55	26°24'46	direct	9237 Jul 27 23:38	22° \mathfrak{D} 09'12	
	9236 Sep 07 17:56	0° \mathfrak{M}			9237 Aug 11 09:49	0° Ω	
asc. node	9236 Sep 23 11:36	26° \mathfrak{M} 46'14		morning max el	9237 Aug 11 08:37	29° \mathfrak{D} 57'02	27°28'45
	9236 Sep 25 01:41	0° $\underline{\mathfrak{A}}$			9237 Sep 01 18:20	0° \mathfrak{M}	
morning set	9236 Sep 27 07:23	4° $\underline{\mathfrak{A}}$ 41'26		asc. node	9237 Sep 10 08:31	16° \mathfrak{M} 32'41	
				morning set	9237 Sep 11 15:04	19° \mathfrak{M} 11'56	
superior conj	9236 Oct 04 04:40	19° $\underline{\mathfrak{A}}$ 46'57	1°29'20		9237 Sep 16 14:58	0° $\underline{\mathfrak{A}}$	
minimum elong	9236 Oct 04 02:50	19° $\underline{\mathfrak{A}}$ 36'44	1°29'14	max. Earth dist.	9237 Sep 18 04:27	3° $\underline{\mathfrak{A}}$ 27'32	1.31565 AU
max. Earth dist.	9236 Oct 04 18:26	21° $\underline{\mathfrak{A}}$ 03'19	1.31762 AU				
	9236 Oct 08 20:17	0° \mathfrak{M}		superior conj	9237 Sep 18 16:26	4° $\underline{\mathfrak{A}}$ 34'04	1°15'24
evening rise	9236 Oct 11 02:22	4° \mathfrak{M} 48'24		minimum elong	9237 Sep 18 14:13	4° $\underline{\mathfrak{A}}$ 21'44	1°15'05
	9236 Oct 24 11:28	0° \mathfrak{X}		evening rise	9237 Sep 25 10:25	19° $\underline{\mathfrak{A}}$ 23'20	
desc. node	9236 Oct 27 18:29	5° \mathfrak{X} 14'09			9237 Sep 30 14:15	0° \mathfrak{M}	
evening max el	9236 Nov 11 07:28	23° \mathfrak{X} 28'34	27°10'14	desc. node	9237 Oct 14 15:37	23° \mathfrak{M} 42'46	
	9236 Nov 21 05:30	0° \mathfrak{Z}			9237 Oct 19 12:28	0° \mathfrak{X}	
retrograde	9236 Nov 25 04:41	0° \mathfrak{Z} 39'47		evening max el	9237 Oct 24 06:59	5° \mathfrak{X} 05'26	26°16'34
	9236 Nov 29 01:14	30° \mathfrak{R} \mathfrak{X}		retrograde	9237 Nov 07 04:55	12° \mathfrak{X} 10'08	
evening set	9236 Dec 02 04:35	28° \mathfrak{X} 29'28		evening set	9237 Nov 13 17:51	10° \mathfrak{X} 26'45	
min. Earth dist.	9236 Dec 05 22:10	25° \mathfrak{X} 45'41	0.60962 AU	min. Earth dist.	9237 Nov 17 20:06	7° \mathfrak{X} 52'14	0.58863 AU
inferior conj	9236 Dec 09 00:41	23° \mathfrak{X} 05'25	-3°34'52	inferior conj	9237 Nov 21 00:08	5° \mathfrak{X} 30'07	-4°41'28
minimum elong	9236 Dec 09 07:31	22° \mathfrak{X} 50'41	3°32'19	minimum elong	9237 Nov 21 07:39	5° \mathfrak{X} 16'00	4°39'25
morning rise	9236 Dec 16 12:51	18° \mathfrak{X} 12'45		morning rise	9237 Nov 28 23:51	0° \mathfrak{X} 59'53	
direct	9236 Dec 18 17:19	17° \mathfrak{X} 53'19		direct	9237 Dec 01 05:11	0° \mathfrak{X} 43'04	
asc. node	9236 Dec 20 11:16	18° \mathfrak{X} 06'12		asc. node	9237 Dec 07 08:19	2° \mathfrak{X} 59'40	
morning max el	9236 Dec 25 21:38	21° \mathfrak{X} 29'24	17°57'03	morning max el	9237 Dec 09 06:49	4° \mathfrak{X} 39'27	18°26'42
	9237 Jan 01 09:02	0° \mathfrak{Z}		morning set	9237 Dec 25 05:23	0° \mathfrak{Z} 07'57	
morning set	9237 Jan 10 12:58	16° \mathfrak{Z} 05'34			9237 Dec 25 03:44	0° \mathfrak{Z}	
	9237 Jan 18 04:41	0° \approx					
superior conj	9237 Jan 20 20:01	4° \approx 39'29	0°21'42	superior conj	9238 Jan 03 06:12	17° \mathfrak{Z} 16'25	0°53'46
minimum elong	9237 Jan 20 21:49	4° \approx 47'21	0°21'40	minimum elong	9238 Jan 03 09:25	17° \mathfrak{Z} 31'12	0°53'37
desc. node	9237 Jan 23 17:42	9° \approx 40'45			9238 Jan 10 09:01	0° \approx	
max. Earth dist.	9237 Jan 28 08:59	17° \approx 28'27	1.42524 AU	max. Earth dist.	9238 Jan 10 17:59	0° \approx 38'42	1.40487 AU
evening rise	9237 Feb 03 08:45	27° \approx 09'36		desc. node	9238 Jan 10 14:38	0° \approx 24'16	
	9237 Feb 05 04:02	0° \mathfrak{X}		evening rise	9238 Jan 15 02:19	7° \approx 59'20	
	9237 Feb 25 15:31	0° \mathfrak{Y}			9238 Jan 29 05:19	0° \mathfrak{X}	
evening max el	9237 Mar 08 00:16	12° \mathfrak{Y} 32'08	22°16'48	evening max el	9238 Feb 18 15:12	26° \mathfrak{X} 16'56	23°36'55
retrograde	9237 Mar 17 15:02	18° \mathfrak{Y} 13'41			9238 Feb 22 21:10	0° \mathfrak{Y}	
asc. node	9237 Mar 18 10:00	18° \mathfrak{Y} 10'34		retrograde	9238 Mar 01 09:22	2° \mathfrak{Y} 37'51	
evening set	9237 Mar 22 06:22	16° \mathfrak{Y} 19'38		asc. node	9238 Mar 05 07:10	1° \mathfrak{Y} 24'15	
inferior conj	9237 Mar 27 14:13	9° \mathfrak{Y} 58'17	2°35'33	evening set	9238 Mar 06 12:31	0° \mathfrak{Y} 29'21	
minimum elong	9237 Mar 27 12:03	10° \mathfrak{Y} 05'49	2°34'59		9238 Mar 07 01:39	30° \mathfrak{R} \mathfrak{X}	
min. Earth dist.	9237 Mar 27 11:41	10° \mathfrak{Y} 07'03	0.68515 AU	inferior conj	9238 Mar 11 22:49	24° \mathfrak{X} 01'54	2°00'48
morning rise	9237 Apr 01 17:34	3° \mathfrak{Y} 47'56		minimum elong	9238 Mar 11 20:39	24° \mathfrak{X} 09'21	2°00'09
direct	9237 Apr 06 11:23	1° \mathfrak{Y} 47'47		min. Earth dist.	9238 Mar 11 08:21	24° \mathfrak{X} 51'25	0.68393 AU
morning max el	9237 Apr 15 19:26	7° \mathfrak{Y} 15'48	22°06'11	morning rise	9238 Mar 17 04:45	17° \mathfrak{X} 57'28	
desc. node	9237 Apr 21 17:49	14° \mathfrak{Y} 02'31		direct	9238 Mar 21 08:56	16° \mathfrak{X} 19'40	
	9237 May 03 09:03	0° \mathfrak{Z}		morning max el	9238 Mar 29 13:14	20° \mathfrak{X} 59'57	20°45'23
morning set	9237 May 18 21:23	23° \mathfrak{Z} 48'40			9238 Apr 06 02:46	0° \mathfrak{Y}	
	9237 May 22 16:17	0° \mathfrak{II}		desc. node	9238 Apr 08 14:43	3° \mathfrak{Y} 23'27	
max. Earth dist.	9237 May 24 08:34	2° \mathfrak{II} 47'45	1.41211 AU		9238 Apr 26 14:18	0° \mathfrak{Z}	
				morning set	9238 Apr 28 06:12	2° \mathfrak{Z} 34'45	
superior conj	9237 Jun 01 02:40	16° \mathfrak{II} 09'43	-1°45'33	max. Earth dist.	9238 May 06 14:12	15° \mathfrak{Z} 48'06	1.43179 AU
minimum elong	9237 Jun 01 08:45	16° \mathfrak{II} 36'42	1°45'11				
	9237 Jun 08 17:29	0° \mathfrak{D}		superior conj	9238 May 13 08:35	26° \mathfrak{Z} 57'37	-2°06'14
evening rise	9237 Jun 11 14:35	5° \mathfrak{D} 20'52		minimum elong	9238 May 13 13:06	27° \mathfrak{Z} 16'36	2°06'15
asc. node	9237 Jun 14 08:46	10° \mathfrak{D} 27'28			9238 May 15 03:46	0° \mathfrak{II}	
	9237 Jun 26 17:38	0° Ω		evening rise	9238 May 25 09:36	17° \mathfrak{II} 50'13	
evening max el	9237 Jun 27 16:59	1° Ω 00'55	18°15'29	asc. node	9238 Jun 01 05:49	29° \mathfrak{II} 49'38	
retrograde	9237 Jul 04 21:04	4° Ω 37'36			9238 Jun 01 08:15	0° \mathfrak{D}	
evening set	9237 Jul 07 03:59	4° Ω 16'16		evening max el	9238 Jun 11 05:15	14° \mathfrak{D} 04'31	18°04'54
	9237 Jul 13 21:30	30° \mathfrak{R} \mathfrak{D}		retrograde	9238 Jun 17 18:38	17° \mathfrak{D} 26'56	
inferior conj	9237 Jul 14 09:39	29° \mathfrak{D} 34'03	1°15'05	evening set	9238 Jun 20 09:10	16° \mathfrak{D} 54'41	
				inferior conj	9238 Jun 26 22:13	11° \mathfrak{D} 52'41	2°18'45

minimum elong	9238 Jun 27 01:08	11°  45'27	2°17'41	minimum elong	9239 Jun 10 04:27	24°  37'36	2°57'11
min. Earth dist.	9238 Jun 30 00:55	8°  49'01	0.61341 AU	min. Earth dist.	9239 Jun 12 16:26	21°  51'18	0.63501 AU
morning rise	9238 Jul 03 14:44	5°  52'17		morning rise	9239 Jun 16 05:37	18°  30'30	
desc. node	9238 Jul 05 14:18	4°  43'05		desc. node	9239 Jun 22 11:22	15°  54'29	
direct	9238 Jul 10 06:35	3°  35'58		direct	9239 Jun 22 23:13	15°  53'41	
morning max el	9238 Jul 24 12:32	11°  36'21	27°55'37	morning max el	9239 Jul 06 21:02	23°  56'38	27°44'31
	9238 Aug 07 23:58	0°  Ω			9239 Jul 12 07:24	0°  Ω	
	9238 Aug 25 01:32	0°  ♍			9239 Aug 01 08:44	0°  Ω	
morning set	9238 Aug 26 17:58	3°  ♍25'45		morning set	9239 Aug 10 13:48	17°  Ω16'37	
asc. node	9238 Aug 28 05:26	6°  ♍30'02		asc. node	9239 Aug 15 02:21	26°  Ω33'52	
max. Earth dist.	9238 Sep 01 12:36	15°  ♍43'23	1.31837 AU	max. Earth dist.	9239 Aug 15 14:52	27°  Ω39'55	1.32594 AU
					9239 Aug 16 17:13	0°  ♍	
superior conj	9238 Sep 03 02:51	19°  ♍13'15	0°56'28	superior conj	9239 Aug 18 10:02	3°  ♍39'12	0°32'54
minimum elong	9238 Sep 03 00:43	19°  ♍01'33	0°56'01	minimum elong	9239 Aug 18 08:32	3°  ♍31'09	0°32'27
	9238 Sep 08 00:18	0°  ♌			9239 Aug 25 08:46	18°  ♍42'17	
evening rise	9238 Sep 09 21:11	4°  ♌03'06		evening rise	9239 Aug 30 20:40	0°  ♌	
	9238 Sep 23 13:47	0°  ♌			9239 Sep 17 09:17	26°  ♌05'45	23°15'44
desc. node	9238 Oct 01 12:46	11°  ♌07'18		evening max el	9239 Sep 18 09:56	27°  ♌03'28	
evening max el	9238 Oct 05 22:16	15°  ♌51'38	24°54'01	desc. node	9239 Sep 22 05:05	0°  ♌	
retrograde	9238 Oct 19 18:25	22°  ♌49'34		retrograde	9239 Sep 30 19:28	2°  ♌47'53	
evening set	9238 Oct 25 07:33	21°  ♌40'17		evening set	9239 Oct 04 21:48	2°  ♌11'15	
min. Earth dist.	9238 Oct 30 09:40	18°  ♌56'35	0.56909 AU		9239 Oct 09 24:00	30°  ♌	
inferior conj	9238 Nov 02 03:39	17°  ♌09'09	-5°28'42	min. Earth dist.	9239 Oct 11 18:48	28°  ♌59'57	0.55419 AU
minimum elong	9238 Nov 02 08:12	17°  ♌01'43	5°28'01	inferior conj	9239 Oct 13 11:26	28°  ♌00'36	-5°36'57
morning rise	9238 Nov 10 11:07	13°  ♌01'34		minimum elong	9239 Oct 13 08:45	28°  ♌04'31	5°36'40
direct	9238 Nov 12 22:26	12°  ♌44'20		morning rise	9239 Oct 21 21:41	24°  ♌09'22	
morning max el	9238 Nov 22 06:24	17°  ♌11'00	19°18'04	direct	9239 Oct 24 20:37	23°  ♌48'25	
asc. node	9238 Nov 24 05:19	19°  ♌14'14		morning max el	9239 Nov 04 17:18	28°  ♌54'52	20°31'55
	9238 Dec 01 14:16	0°  ♋			9239 Nov 05 19:42	0°  ♌	
morning set	9238 Dec 09 06:35	14°  ♋33'33		asc. node	9239 Nov 11 02:17	6°  ♌34'09	
				morning set	9239 Nov 23 13:26	29°  ♌13'07	
superior conj	9238 Dec 17 09:38	0°  ♋42'11	1°17'07		9239 Nov 23 22:32	0°  ♋	
minimum elong	9238 Dec 17 12:39	0°  ♋56'50	1°17'04	superior conj	9239 Dec 01 01:35	14°  ♋42'38	1°32'07
	9238 Dec 17 00:58	0°  ♋		minimum elong	9239 Dec 01 03:36	14°  ♋52'53	1°32'14
max. Earth dist.	9238 Dec 23 23:47	13°  ♋06'29	1.38294 AU	max. Earth dist.	9239 Dec 06 07:05	25°  ♋05'09	1.36205 AU
evening rise	9238 Dec 27 17:39	19°  ♋46'43			9239 Dec 08 21:11	0°  ♋	
desc. node	9238 Dec 28 11:36	21°  ♋04'41		evening rise	9239 Dec 10 04:27	2°  ♋24'56	
	9239 Jan 02 19:00	0°  ♋		desc. node	9239 Dec 15 08:36	11°  ♋37'24	
	9239 Jan 23 08:48	0°  ♋			9239 Dec 26 20:01	0°  ♋	
evening max el	9239 Feb 01 04:30	10°  ♋04'47	24°55'06	evening max el	9240 Jan 14 17:43	23°  ♋52'23	26°04'18
retrograde	9239 Feb 12 23:53	16°  ♋57'05			9240 Jan 22 23:09	0°  ♋	
evening set	9239 Feb 18 15:21	14°  ♋36'06		retrograde	9240 Jan 27 09:26	1°  ♋04'22	
asc. node	9239 Feb 20 04:18	13°  ♋07'32			9240 Jan 31 11:01	30°  ♋	
min. Earth dist.	9239 Feb 23 03:26	9°  ♋32'43	0.67864 AU	evening set	9240 Feb 02 13:06	28°  ♋34'06	
inferior conj	9239 Feb 24 05:29	8°  ♋06'51	1°17'19	min. Earth dist.	9240 Feb 06 18:40	24°  ♋05'15	0.66947 AU
minimum elong	9239 Feb 24 03:48	8°  ♋12'27	1°16'49	asc. node	9240 Feb 07 01:26	23°  ♋44'25	
morning rise	9239 Mar 01 16:30	2°  ♋09'43		inferior conj	9240 Feb 08 08:15	22°  ♋08'27	0°25'21
direct	9239 Mar 05 08:02	0°  ♋53'20		minimum elong	9240 Feb 08 07:36	22°  ♋10'29	0°25'17
morning max el	9239 Mar 12 14:50	4°  ♋56'27	19°37'27	morning rise	9240 Feb 14 02:45	16°  ♋20'27	
greatest brilliancy	9239 Mar 25 07:43	21°  ♋30'18	-0.7m	direct	9240 Feb 17 07:01	15°  ♋22'55	
desc. node	9239 Mar 26 11:36	23°  ♋13'12		morning max el	9240 Feb 23 23:47	19°  ♋01'04	18°44'58
	9239 Mar 31 00:05	0°  ♋			9240 Mar 03 13:57	0°  ♋	
morning set	9239 Apr 07 04:14	10°  ♋57'43		desc. node	9240 Mar 12 08:27	13°  ♋23'27	
max. Earth dist.	9239 Apr 19 02:22	29°  ♋33'31	1.44646 AU	morning set	9240 Mar 16 15:28	20°  ♋06'03	
	9239 Apr 19 09:03	0°  ♋			9240 Mar 22 23:19	0°  ♋	
superior conj	9239 Apr 23 13:59	6°  ♋42'37	-2°12'12	max. Earth dist.	9240 Mar 31 19:29	13°  ♋49'34	1.45454 AU
minimum elong	9239 Apr 23 12:45	6°  ♋37'40	2°12'22	superior conj	9240 Apr 02 00:03	15°  ♋41'32	-1°58'28
evening rise	9239 May 07 08:39	29°  ♋25'38		minimum elong	9240 Apr 01 16:02	15°  ♋10'07	1°58'00
	9239 May 07 16:49	0°  ♋			9240 Apr 11 01:41	0°  ♋	
asc. node	9239 May 19 02:54	18°  ♋47'15		evening rise	9240 Apr 17 08:08	10°  ♋01'25	
evening max el	9239 May 25 18:48	27°  ♋26'33	18°13'12	greatest brilliancy	9240 Apr 24 05:43	21°  ♋06'37	-0.9m
	9239 May 29 02:30	0°  ♋			9240 Apr 29 22:02	0°  ♋	
retrograde	9239 Jun 01 03:48	0°  ♋49'00		asc. node	9240 May 04 23:59	7°  ♋11'57	
evening set	9239 Jun 04 01:52	0°  ♋03'44		evening max el	9240 May 08 06:45	10°  ♋59'29	18°39'38
	9239 Jun 04 04:44	30°  ♋					
inferior conj	9239 Jun 10 02:17	24°  ♋43'40	2°57'51				

retrograde	9240 May 14 20:27	14° Π 35'18			9241 Apr 03 23:53	0° \mathcal{B}	
evening set	9240 May 18 02:11	13° Π 35'38		greatest brilliancy	9241 Apr 09 16:29	8° \mathcal{B} 41'47	-0.7m
inferior conj	9240 May 23 17:49	7° Π 58'53	3°17'05	evening max el	9241 Apr 21 14:50	24° \mathcal{B} 37'45	19°23'02
minimum elong	9240 May 23 18:45	7° Π 56'02	3°16'45	asc. node	9241 Apr 21 21:05	24° \mathcal{B} 53'22	
min. Earth dist.	9240 May 25 16:56	5° Π 35'14	0.65363 AU	retrograde	9241 Apr 28 17:21	28° \mathcal{B} 38'59	
morning rise	9240 May 29 10:34	1° Π 40'33		evening set	9241 May 02 07:15	27° \mathcal{B} 24'11	
	9240 May 31 20:17	30° \mathcal{R} \mathcal{B}		inferior conj	9241 May 07 17:26	21° \mathcal{B} 32'10	3°20'36
direct	9240 Jun 04 23:31	28° \mathcal{B} 54'59		minimum elong	9241 May 07 17:08	21° \mathcal{B} 33'09	3°20'23
desc. node	9240 Jun 08 08:23	29° \mathcal{B} 32'42		min. Earth dist.	9241 May 09 01:20	19° \mathcal{B} 47'51	0.66821 AU
	9240 Jun 09 11:00	0° Π		morning rise	9241 May 13 02:38	15° \mathcal{B} 13'09	
morning max el	9240 Jun 18 07:21	6° Π 47'32	27°00'19	direct	9241 May 19 06:10	12° \mathcal{B} 30'31	
	9240 Jul 06 04:15	0° \mathcal{B}		desc. node	9241 May 26 05:22	15° \mathcal{B} 10'48	
morning set	9240 Jul 23 23:41	0° Ω 36'40		morning max el	9241 May 31 17:31	19° \mathcal{B} 58'00	25°51'04
	9240 Jul 23 16:03	0° Ω			9241 Jun 09 07:20	0° Π	
max. Earth dist.	9240 Jul 28 07:56	9° Ω 10'49	1.33846 AU		9241 Jun 29 07:12	0° \mathcal{B}	
asc. node	9240 Jul 31 23:16	16° Ω 40'06		morning set	9241 Jul 06 19:49	13° \mathcal{B} 14'58	
				max. Earth dist.	9241 Jul 10 14:27	20° \mathcal{B} 19'54	1.35575 AU
superior conj	9240 Aug 01 11:49	17° Ω 45'50	0°05'15		9241 Jul 15 12:40	0° Ω	
minimum elong	9240 Aug 01 11:34	17° Ω 44'26	0°04'59	superior conj	9241 Jul 16 05:35	1° Ω 25'11	-0°25'38
behind sun begin	9240 Aug 01 06:09	17° Ω 16'05		minimum elong	9241 Jul 16 07:07	1° Ω 32'56	0°25'36
behind sun end	9240 Aug 01 16:58	18° Ω 12'51		asc. node	9241 Jul 18 20:12	6° Ω 44'09	
	9240 Aug 07 06:17	0° \mathcal{M}		evening rise	9241 Jul 24 02:35	17° Ω 35'49	
evening rise	9240 Aug 08 19:17	3° \mathcal{M} 15'29			9241 Jul 30 09:20	0° \mathcal{M}	
	9240 Aug 23 15:08	0° \mathcal{A}		evening max el	9241 Aug 11 03:27	17° \mathcal{M} 11'15	20°15'28
evening max el	9240 Aug 29 00:37	6° \mathcal{A} 22'30	21°38'34	retrograde	9241 Aug 21 22:16	22° \mathcal{M} 31'41	
desc. node	9240 Sep 04 07:05	11° \mathcal{A} 01'22		desc. node	9241 Aug 22 04:15	22° \mathcal{M} 31'32	
retrograde	9240 Sep 10 09:34	12° \mathcal{A} 31'00		evening set	9241 Aug 23 21:24	22° \mathcal{M} 21'50	
evening set	9240 Sep 13 02:38	12° \mathcal{A} 14'22		inferior conj	9241 Sep 01 23:50	18° \mathcal{M} 23'43	-3°14'16
inferior conj	9240 Sep 22 05:52	8° \mathcal{A} 16'36	-4°50'15	minimum elong	9241 Sep 01 15:18	18° \mathcal{M} 36'17	3°11'26
minimum elong	9240 Sep 21 20:50	8° \mathcal{A} 29'14	4°48'15	min. Earth dist.	9241 Sep 03 12:14	17° \mathcal{M} 30'09	0.54901 AU
min. Earth dist.	9240 Sep 22 02:51	8° \mathcal{A} 20'49	0.54693 AU	morning rise	9241 Sep 10 08:19	14° \mathcal{M} 15'50	
morning rise	9240 Sep 30 16:05	4° \mathcal{A} 27'14		direct	9241 Sep 14 16:41	13° \mathcal{M} 35'05	
direct	9240 Oct 04 06:42	3° \mathcal{A} 58'51		morning max el	9241 Sep 28 04:40	20° \mathcal{M} 09'38	23°51'47
morning max el	9240 Oct 16 15:15	9° \mathcal{A} 50'05	22°05'55		9241 Oct 06 12:38	0° \mathcal{A}	
asc. node	9240 Oct 27 23:14	24° \mathcal{A} 45'01		asc. node	9241 Oct 14 20:09	13° \mathcal{A} 33'47	
	9240 Oct 30 22:46	0° \mathcal{M}		morning set	9241 Oct 22 11:19	28° \mathcal{A} 49'38	
morning set	9240 Nov 06 23:39	14° \mathcal{M} 00'33			9241 Oct 23 00:31	0° \mathcal{M}	
superior conj	9240 Nov 14 02:21	29° \mathcal{M} 07'27	1°39'34	superior conj	9241 Oct 29 08:59	13° \mathcal{M} 47'17	1°40'17
minimum elong	9240 Nov 14 03:06	29° \mathcal{M} 11'24	1°39'47	minimum elong	9241 Oct 29 08:32	13° \mathcal{M} 44'47	1°40'28
	9240 Nov 14 12:19	0° \mathcal{J}		max. Earth dist.	9241 Oct 31 19:21	19° \mathcal{M} 01'22	1.33028 AU
max. Earth dist.	9240 Nov 17 21:05	6° \mathcal{J} 58'39	1.34416 AU	evening rise	9241 Nov 05 21:34	29° \mathcal{M} 35'42	
evening rise	9240 Nov 22 07:01	15° \mathcal{J} 44'45			9241 Nov 06 02:25	0° \mathcal{J}	
	9240 Nov 30 02:07	0° \mathcal{Z}		desc. node	9241 Nov 18 02:42	21° \mathcal{J} 59'26	
desc. node	9240 Dec 01 05:38	1° \mathcal{Z} 57'50			9241 Nov 23 04:01	0° \mathcal{Z}	
	9240 Dec 20 09:37	0° \approx		evening max el	9241 Dec 09 19:40	20° \mathcal{Z} 54'18	27°26'09
evening max el	9240 Dec 27 07:13	7° \approx 32'51	26°57'01	retrograde	9241 Dec 23 10:28	28° \mathcal{Z} 14'28	
retrograde	9241 Jan 09 13:12	14° \approx 52'55		evening set	9241 Dec 30 09:22	25° \mathcal{Z} 41'39	
evening set	9241 Jan 16 03:54	12° \approx 18'04		min. Earth dist.	9242 Jan 03 04:24	22° \mathcal{Z} 19'25	0.64046 AU
min. Earth dist.	9241 Jan 20 03:43	8° \approx 23'25	0.65668 AU	inferior conj	9242 Jan 05 17:08	19° \mathcal{Z} 41'26	-1°41'45
inferior conj	9241 Jan 22 04:58	6° \approx 02'01	-0°34'41	minimum elong	9242 Jan 05 20:19	19° \mathcal{Z} 33'07	1°40'09
minimum elong	9241 Jan 22 05:58	5° \approx 59'09	0°34'01	asc. node	9242 Jan 10 19:37	15° \mathcal{Z} 08'42	
asc. node	9241 Jan 23 22:32	4° \approx 05'33		morning rise	9242 Jan 12 09:03	14° \mathcal{Z} 19'44	
morning rise	9241 Jan 28 09:13	0° \approx 25'39		direct	9242 Jan 14 20:10	13° \mathcal{Z} 49'20	
	9241 Jan 29 10:19	30° \mathcal{R} \mathcal{Z}		morning max el	9242 Jan 21 07:28	17° \mathcal{Z} 11'08	17°50'20
direct	9241 Jan 31 03:56	29° \mathcal{Z} 43'32			9242 Jan 30 14:15	0° \approx	
	9241 Feb 01 21:55	0° \approx		morning set	9242 Feb 07 02:19	12° \approx 36'29	
morning max el	9241 Feb 06 14:13	3° \approx 08'19	18°09'05	desc. node	9242 Feb 14 02:12	24° \approx 23'51	
	9241 Feb 24 20:56	0° \mathcal{H}			9242 Feb 17 11:38	0° \mathcal{H}	
morning set	9241 Feb 25 06:47	0° \mathcal{H} 39'59		superior conj	9242 Feb 20 03:14	4° \mathcal{H} 19'01	-0°43'23
desc. node	9241 Feb 27 05:19	3° \mathcal{H} 48'31		minimum elong	9242 Feb 19 22:25	3° \mathcal{H} 59'30	0°42'34
superior conj	9241 Mar 12 06:18	24° \mathcal{H} 37'06	-1°26'02	max. Earth dist.	9242 Feb 25 10:46	12° \mathcal{H} 49'33	1.44847 AU
minimum elong	9241 Mar 11 21:07	24° \mathcal{H} 01'01	1°24'58	evening rise	9242 Mar 07 21:53	29° \mathcal{H} 07'18	
max. Earth dist.	9241 Mar 14 15:21	28° \mathcal{H} 21'01	1.45522 AU		9242 Mar 08 11:38	0° \mathcal{Y}	
	9241 Mar 15 16:38	0° \mathcal{Y}			9242 Mar 28 20:41	0° \mathcal{B}	
evening rise	9241 Mar 28 09:28	19° \mathcal{Y} 46'25					

evening max el	9242 Apr 04 17:37	8°♄18'01	20°21'36	behind sun end	9243 Feb 01 09:24	15°♄48'48	
asc. node	9242 Apr 08 18:13	11°♄38'45		max. Earth dist.	9243 Feb 08 02:42	26°♄56'25	1.43515 AU
retrograde	9242 Apr 12 15:58	12°♄54'45			9243 Feb 10 00:16	0°♄	
evening set	9242 Apr 16 14:52	11°♄24'35		evening rise	9243 Feb 15 12:11	8°♄40'32	
inferior conj	9242 Apr 21 22:21	5°♄19'06	3°11'25		9243 Mar 01 16:47	0°♄	
minimum elong	9242 Apr 21 21:04	5°♄23'32	3°11'07	evening max el	9243 Mar 18 14:50	21°♄58'54	21°32'22
min. Earth dist.	9242 Apr 22 16:01	4°♄18'44	0.67828 AU	asc. node	9243 Mar 26 15:23	27°♄12'28	
	9242 Apr 26 03:24	30°♄		retrograde	9243 Mar 27 14:13	27°♄17'02	
morning rise	9242 Apr 27 03:03	29°♄02'04		evening set	9243 Mar 31 23:09	25°♄31'39	
direct	9242 May 02 18:17	26°♄31'32		inferior conj	9243 Apr 06 06:17	19°♄15'05	2°51'29
	9242 May 10 11:32	0°♄		minimum elong	9243 Apr 06 04:20	19°♄21'55	2°51'00
desc. node	9242 May 13 02:19	2°♄18'56		min. Earth dist.	9243 Apr 06 10:52	18°♄59'07	0.68383 AU
morning max el	9242 May 14 02:59	3°♄19'47	24°26'31	morning rise	9243 Apr 11 09:19	13°♄01'43	
	9242 Jun 03 11:44	0°♄		direct	9243 Apr 16 10:59	10°♄49'28	
morning set	9242 Jun 18 21:31	24°♄59'56		morning max el	9243 Apr 26 13:03	16°♄48'12	22°56'38
	9242 Jun 21 17:21	0°♄		desc. node	9243 Apr 29 23:15	20°♄31'56	
max. Earth dist.	9242 Jun 22 12:59	1°♄28'23	1.37673 AU		9243 May 07 10:24	0°♄	
					9243 May 27 12:51	0°♄	
superior conj	9242 Jun 29 12:08	14°♄29'37	-0°58'06	morning set	9243 May 30 23:20	5°♄37'15	
minimum elong	9242 Jun 29 15:49	14°♄47'27	0°57'44	max. Earth dist.	9243 Jun 04 09:29	13°♄04'53	1.39935 AU
asc. node	9242 Jul 05 17:11	26°♄42'35					
	9242 Jul 07 08:48	0°♄		superior conj	9243 Jun 12 03:22	26°♄49'03	-1°29'30
evening rise	9242 Jul 08 04:18	1°♄36'59		minimum elong	9243 Jun 12 08:58	27°♄14'42	1°29'02
evening max el	9242 Jul 24 19:39	28°♄45'21	19°12'25		9243 Jun 13 20:51	0°♄	
	9242 Jul 26 04:09	0°♄		evening rise	9243 Jun 21 21:17	15°♄10'12	
retrograde	9242 Aug 02 22:22	3°♄16'26		asc. node	9243 Jun 22 14:12	16°♄30'50	
evening set	9242 Aug 04 19:10	3°♄05'51			9243 Jun 29 23:03	0°♄	
desc. node	9242 Aug 09 01:24	1°♄31'55		evening max el	9243 Jul 07 22:45	11°♄01'56	18°30'26
	9242 Aug 11 15:52	30°♄		retrograde	9243 Jul 15 16:42	14°♄54'02	
inferior conj	9242 Aug 13 07:23	28°♄54'56	-1°18'41	evening set	9243 Jul 17 19:09	14°♄37'49	
minimum elong	9242 Aug 13 03:55	29°♄00'45	1°17'29	inferior conj	9243 Jul 25 11:53	10°♄07'51	0°26'00
min. Earth dist.	9242 Aug 16 01:21	27°♄04'49	0.56022 AU	minimum elong	9243 Jul 25 12:50	10°♄06'00	0°25'25
morning rise	9242 Aug 21 09:46	24°♄12'17		desc. node	9243 Jul 26 22:32	8°♄59'31	
direct	9242 Aug 26 13:36	23°♄10'55		min. Earth dist.	9243 Jul 28 19:51	7°♄32'10	0.57842 AU
	9242 Sep 09 07:44	0°♄		morning rise	9243 Aug 02 02:58	4°♄48'21	
morning max el	9242 Sep 09 17:09	0°♄22'14	25°34'13	direct	9243 Aug 08 01:26	3°♄18'13	
	9242 Sep 30 05:37	0°♄		morning max el	9243 Aug 22 10:24	10°♄56'19	26°56'06
asc. node	9242 Oct 01 17:05	2°♄50'56			9243 Sep 06 04:20	0°♄	
morning set	9242 Oct 06 22:46	13°♄35'35		asc. node	9243 Sep 18 14:01	22°♄28'47	
				morning set	9243 Sep 21 08:21	28°♄13'39	
superior conj	9242 Oct 13 19:11	28°♄35'10	1°34'57		9243 Sep 22 04:18	0°♄	
minimum elong	9242 Oct 13 17:45	28°♄27'16	1°34'58				
	9242 Oct 14 10:35	0°♄		superior conj	9243 Sep 28 06:57	13°♄24'56	1°24'03
max. Earth dist.	9242 Oct 15 00:30	1°♄16'33	1.32090 AU	minimum elong	9243 Sep 28 04:54	13°♄13'31	1°23'52
evening rise	9242 Oct 20 20:58	13°♄49'37		max. Earth dist.	9243 Sep 28 09:39	13°♄39'59	1.31617 AU
	9242 Oct 29 04:21	0°♄		evening rise	9243 Oct 05 02:32	28°♄19'20	
desc. node	9242 Nov 04 23:48	11°♄34'17			9243 Oct 05 21:37	0°♄	
	9242 Nov 18 13:53	0°♄		desc. node	9243 Oct 22 20:55	0°♄31'45	
evening max el	9242 Nov 22 05:00	3°♄43'54	27°25'33		9243 Oct 22 12:23	0°♄	
retrograde	9242 Dec 06 00:45	10°♄59'41		evening max el	9243 Nov 04 08:51	15°♄50'41	26°51'25
evening set	9242 Dec 13 02:31	8°♄37'53		retrograde	9243 Nov 18 06:59	22°♄59'56	
min. Earth dist.	9242 Dec 16 19:03	5°♄42'55	0.62140 AU	evening set	9243 Nov 25 03:26	20°♄59'47	
inferior conj	9242 Dec 19 17:45	2°♄59'11	-2°53'25	min. Earth dist.	9243 Nov 28 23:12	18°♄21'51	0.60060 AU
minimum elong	9242 Dec 19 23:23	2°♄46'07	2°51'03	inferior conj	9243 Dec 02 03:29	15°♄46'59	-4°04'30
	9242 Dec 23 04:54	30°♄		minimum elong	9243 Dec 02 10:54	15°♄31'52	4°02'01
morning rise	9242 Dec 26 22:34	27°♄55'22		morning rise	9243 Dec 09 20:54	11°♄03'47	
asc. node	9242 Dec 28 16:42	27°♄34'06		direct	9243 Dec 12 00:59	10°♄46'00	
direct	9242 Dec 29 04:30	27°♄33'01		asc. node	9243 Dec 15 13:46	11°♄35'31	
	9243 Jan 03 21:32	0°♄		morning max el	9243 Dec 19 13:33	14°♄29'52	18°07'09
morning max el	9243 Jan 05 00:23	1°♄01'17	17°49'17		9243 Dec 30 04:02	0°♄	
morning set	9243 Jan 20 19:59	25°♄35'52		morning set	9244 Jan 04 05:37	9°♄20'11	
	9243 Jan 23 07:13	0°♄					
desc. node	9243 Jan 31 23:06	15°♄05'07		superior conj	9244 Jan 13 22:43	27°♄14'49	0°36'20
				minimum elong	9244 Jan 14 01:21	27°♄26'39	0°36'13
superior conj	9243 Feb 01 00:42	15°♄11'56	-0°00'30		9244 Jan 15 11:52	0°♄	
minimum elong	9243 Feb 01 00:40	15°♄11'47	0°00'16	desc. node	9244 Jan 18 20:01	5°♄49'17	
behind sun begin	9243 Jan 31 15:55	14°♄34'42		max. Earth dist.	9244 Jan 21 13:53	10°♄28'59	1.41686 AU

evening rise	9244 Jan 26 17:52	18° \approx 58'45		desc. node	9245 Jan 04 16:59	26° \approx 32'03	
	9244 Feb 02 18:20	0° \approx		evening rise	9245 Jan 06 20:50	0° \approx 13'49	
	9244 Feb 24 04:57	0° \approx			9245 Jan 06 17:34	0° \approx	
evening max el	9244 Feb 29 07:36	5° \approx 42'18	22°50'45		9245 Jan 26 03:35	0° \approx	
retrograde	9244 Mar 10 10:23	11° \approx 41'44		evening max el	9245 Feb 10 21:46	19° \approx 29'05	24°10'54
asc. node	9244 Mar 12 12:32	11° \approx 20'09		retrograde	9245 Feb 22 03:05	26° \approx 04'06	
evening set	9244 Mar 15 06:31	9° \approx 41'37		evening set	9245 Feb 27 11:24	23° \approx 50'17	
inferior conj	9244 Mar 20 15:12	3° \approx 17'06	2°21'56	asc. node	9245 Feb 27 09:41	23° \approx 53'53	
minimum elong	9244 Mar 20 12:59	3° \approx 24'50	2°21'18	min. Earth dist.	9245 Mar 04 03:53	18° \approx 26'55	0.68218 AU
min. Earth dist.	9244 Mar 20 07:36	3° \approx 43'29	0.68510 AU	inferior conj	9245 Mar 04 23:12	17° \approx 21'41	1°43'25
	9244 Mar 23 02:12	30° \approx		minimum elong	9245 Mar 04 21:10	17° \approx 28'34	1°42'48
morning rise	9244 Mar 25 19:19	27° \approx 08'51		morning rise	9245 Mar 10 06:59	11° \approx 20'02	
direct	9244 Mar 30 07:14	25° \approx 18'03		direct	9245 Mar 14 05:44	9° \approx 51'20	
	9244 Apr 07 16:42	0° \approx		morning max el	9245 Mar 21 23:49	14° \approx 14'05	20°14'39
morning max el	9244 Apr 08 02:57	0° \approx 25'15	21°30'25	desc. node	9245 Apr 02 17:02	29° \approx 06'15	
desc. node	9244 Apr 15 20:10	9° \approx 32'01			9245 Apr 03 08:03	0° \approx	
	9244 Apr 30 04:53	0° \approx		morning set	9245 Apr 18 23:23	23° \approx 27'21	
morning set	9244 May 09 21:55	14° \approx 59'26			9245 Apr 23 04:21	0° \approx	
max. Earth dist.	9244 May 16 10:27	25° \approx 31'56	1.42094 AU	max. Earth dist.	9245 Apr 28 19:05	8° \approx 53'28	1.43876 AU
	9244 May 19 02:57	0° \approx					
superior conj	9244 May 23 22:42	8° \approx 13'15	-1°55'42	superior conj	9245 May 04 18:10	18° \approx 34'16	-2°10'56
minimum elong	9244 May 24 04:35	8° \approx 38'43	1°55'29	minimum elong	9245 May 04 20:43	18° \approx 44'48	2°11'05
evening rise	9244 Jun 04 01:36	28° \approx 05'44			9245 May 11 14:02	0° \approx	
	9244 Jun 05 02:41	0° \approx		evening rise	9245 May 17 12:38	10° \approx 13'10	
asc. node	9244 Jun 08 11:14	6° \approx 04'11		asc. node	9245 May 26 08:18	25° \approx 17'00	
evening max el	9244 Jun 20 08:50	23° \approx 51'46	18°08'42		9245 May 29 08:26	0° \approx	
retrograde	9244 Jun 27 05:13	27° \approx 20'11		evening max el	9245 Jun 03 22:05	7° \approx 04'50	18°06'14
evening set	9244 Jun 29 15:26	26° \approx 54'31		retrograde	9245 Jun 10 08:15	10° \approx 25'17	
inferior conj	9244 Jul 06 13:37	22° \approx 04'02	1°45'19	evening set	9245 Jun 13 02:07	9° \approx 47'32	
minimum elong	9244 Jul 06 16:25	21° \approx 57'38	1°44'10	inferior conj	9245 Jun 19 09:16	4° \approx 37'34	2°38'01
min. Earth dist.	9244 Jul 09 21:11	19° \approx 03'44	0.60041 AU	minimum elong	9245 Jun 19 11:59	4° \approx 30'29	2°37'07
desc. node	9244 Jul 12 19:39	16° \approx 46'14		min. Earth dist.	9245 Jun 22 07:06	1° \approx 36'28	0.62285 AU
morning rise	9244 Jul 13 14:30	16° \approx 15'47			9245 Jun 23 23:53	30° \approx	
direct	9244 Jul 20 02:20	14° \approx 14'57		morning rise	9245 Jun 25 19:57	28° \approx 30'59	
morning max el	9244 Aug 03 10:19	22° \approx 09'22	27°44'50	desc. node	9245 Jun 29 16:43	26° \approx 30'50	
	9244 Aug 10 07:58	0° \approx		direct	9245 Jul 02 13:32	26° \approx 04'49	
	9244 Aug 29 05:59	0° \approx			9245 Jul 12 00:48	0° \approx	
asc. node	9244 Sep 04 10:54	12° \approx 20'39		morning max el	9245 Jul 16 16:18	4° \approx 06'42	27°55'26
morning set	9244 Sep 04 14:13	12° \approx 37'54			9245 Aug 04 23:52	0° \approx	
max. Earth dist.	9244 Sep 10 19:12	26° \approx 01'41	1.31621 AU	morning set	9245 Aug 19 14:25	26° \approx 43'12	
					9245 Aug 21 04:42	0° \approx	
superior conj	9244 Sep 11 18:22	28° \approx 09'53	1°07'58	asc. node	9245 Aug 22 07:49	2° \approx 21'44	
minimum elong	9244 Sep 11 16:07	27° \approx 57'27	1°07'35	max. Earth dist.	9245 Aug 25 01:26	8° \approx 11'44	1.32104 AU
	9244 Sep 12 14:13	0° \approx					
evening rise	9244 Sep 18 11:59	12° \approx 57'31		superior conj	9245 Aug 27 03:39	12° \approx 44'44	0°47'02
	9244 Sep 27 00:15	0° \approx		minimum elong	9245 Aug 27 01:43	12° \approx 34'11	0°46'34
desc. node	9244 Oct 08 18:05	18° \approx 36'10		evening rise	9245 Sep 02 23:21	27° \approx 38'34	
evening max el	9244 Oct 16 04:59	27° \approx 06'24	25°44'29		9245 Sep 04 01:54	0° \approx	
	9244 Oct 19 14:28	0° \approx			9245 Sep 21 03:20	0° \approx	
retrograde	9244 Oct 30 02:57	4° \approx 08'18		desc. node	9245 Sep 25 15:14	5° \approx 26'58	
evening set	9244 Nov 05 07:10	2° \approx 39'17		evening max el	9245 Sep 27 17:49	7° \approx 36'30	24°13'09
min. Earth dist.	9244 Nov 09 17:32	0° \approx 02'58	0.57996 AU	retrograde	9245 Oct 11 10:45	14° \approx 28'32	
	9244 Nov 09 19:17	30° \approx		evening set	9245 Oct 16 10:12	13° \approx 34'02	
inferior conj	9244 Nov 12 18:46	27° \approx 53'53	-5°04'58	min. Earth dist.	9245 Oct 22 04:33	10° \approx 40'48	0.56211 AU
minimum elong	9244 Nov 13 01:35	27° \approx 41'49	5°03'28	inferior conj	9245 Oct 24 13:36	9° \approx 12'45	-5°38'08
morning rise	9244 Nov 20 22:20	23° \approx 33'10		minimum elong	9245 Oct 24 15:27	9° \approx 09'52	5°37'53
direct	9244 Nov 23 05:26	23° \approx 16'35		morning rise	9245 Nov 01 22:47	5° \approx 13'13	
asc. node	9244 Dec 01 10:47	27° \approx 05'27		direct	9245 Nov 04 14:42	4° \approx 54'37	
morning max el	9244 Dec 01 19:04	27° \approx 25'04	18°45'42	morning max el	9245 Nov 14 13:25	9° \approx 36'53	19°46'38
	9244 Dec 04 04:00	0° \approx		asc. node	9245 Nov 18 07:45	13° \approx 49'43	
morning set	9244 Dec 18 02:13	23° \approx 34'01			9245 Nov 28 03:50	0° \approx	
	9244 Dec 21 09:11	0° \approx		morning set	9245 Dec 02 06:09	8° \approx 06'50	
superior conj	9244 Dec 26 16:50	10° \approx 14'08	1°04'44				
minimum elong	9244 Dec 26 20:06	10° \approx 29'34	1°04'36	superior conj	9245 Dec 10 02:05	23° \approx 56'10	1°24'27
max. Earth dist.	9245 Jan 02 21:03	23° \approx 20'22	1.39564 AU	minimum elong	9245 Dec 10 04:44	24° \approx 09'19	1°24'28
					9245 Dec 13 04:31	0° \approx	
				max. Earth dist.	9245 Dec 16 03:17	5° \approx 35'15	1.37390 AU

evening rise	9245 Dec 19 20:52	12° ♄ 23'54		evening rise	9246 Dec 02 14:49	25° ♄ 21'04	
desc. node	9245 Dec 22 13:57	17° ♄ 09'46			9246 Dec 05 03:11	0° ♄	
	9245 Dec 30 08:25	0° ♄		desc. node	9246 Dec 09 10:58	7° ♄ 38'11	
	9246 Jan 21 07:15	0° ♄			9246 Dec 23 20:25	0° ♄	
evening max el	9246 Jan 24 11:00	3° ♄ 17'42	25°26'02	evening max el	9247 Jan 07 00:13	17° ♄ 03'14	26°29'04
retrograde	9246 Feb 05 15:22	10° ♄ 19'01		retrograde	9247 Jan 19 22:36	24° ♄ 20'11	
evening set	9246 Feb 11 12:14	7° ♄ 53'33		evening set	9247 Jan 26 07:20	21° ♄ 46'56	
asc. node	9246 Feb 14 06:49	5° ♄ 03'58		min. Earth dist.	9247 Jan 30 10:14	17° ♄ 33'01	0.66449 AU
min. Earth dist.	9246 Feb 15 21:28	3° ♄ 05'06	0.67527 AU	inferior conj	9247 Feb 01 04:54	15° ♄ 24'37	0°00'49
inferior conj	9246 Feb 17 04:25	1° ♄ 25'26	0°56'16	minimum elong	9247 Feb 01 04:52	15° ♄ 24'42	0°01'02
minimum elong	9246 Feb 17 03:06	1° ♄ 29'43	0°55'55	transit middle	9247 Feb 01 04:52	15° ♄ 24'42	0°01'02
	9246 Feb 18 07:16	30° ♄		transit begin	9247 Feb 01 01:58	15° ♄ 33'27	
morning rise	9246 Feb 22 18:21	25° ♄ 32'06		transit end	9247 Feb 01 07:46	15° ♄ 15'59	
direct	9246 Feb 26 04:58	24° ♄ 24'01		asc. node	9247 Feb 01 03:55	15° ♄ 27'35	
morning max el	9246 Mar 05 04:41	28° ♄ 14'32	19°13'08	morning rise	9247 Feb 07 03:19	9° ♄ 41'34	
	9246 Mar 06 20:38	0° ♄		direct	9247 Feb 10 03:16	8° ♄ 51'09	
greatest brilliancy	9246 Mar 18 06:59	15° ♄ 38'13	-0.7m	morning max el	9247 Feb 16 16:24	12° ♄ 22'10	18°27'42
desc. node	9246 Mar 20 13:54	19° ♄ 05'24			9247 Mar 01 12:12	0° ♄	
	9246 Mar 27 16:40	0° ♄		desc. node	9247 Mar 07 10:45	9° ♄ 22'55	
morning set	9246 Mar 29 00:13	2° ♄ 01'49		morning set	9247 Mar 08 22:38	11° ♄ 45'14	
max. Earth dist.	9246 Apr 11 10:14	22° ♄ 56'03	1.45077 AU		9247 Mar 20 12:11	0° ♄	
superior conj	9246 Apr 14 13:58	27° ♄ 55'13	-2°08'54	superior conj	9247 Mar 24 20:06	6° ♄ 46'48	-1°46'37
minimum elong	9246 Apr 14 09:33	27° ♄ 37'44	2°08'53	minimum elong	9247 Mar 24 10:41	6° ♄ 10'00	1°45'49
	9246 Apr 15 21:22	0° ♄		max. Earth dist.	9247 Mar 25 04:54	7° ♄ 21'16	1.45571 AU
evening rise	9246 Apr 29 01:51	21° ♄ 23'13			9247 Apr 08 15:08	0° ♄	
	9246 May 04 07:08	0° ♄		evening rise	9247 Apr 09 15:26	1° ♄ 36'00	
asc. node	9246 May 13 05:22	14° ♄ 01'36		greatest brilliancy	9247 Apr 19 02:51	16° ♄ 31'49	-0.8m
evening max el	9246 May 18 11:13	20° ♄ 31'49	18°22'17		9247 Apr 28 08:24	0° ♄	
retrograde	9246 May 24 21:07	23° ♄ 58'33		asc. node	9247 Apr 30 02:28	2° ♄ 09'26	
evening set	9246 May 27 22:27	23° ♄ 07'09		evening max el	9247 May 01 21:39	4° ♄ 07'14	18°56'03
inferior conj	9246 Jun 02 18:38	17° ♄ 39'31	3°08'10	retrograde	9247 May 08 16:03	7° ♄ 52'55	
minimum elong	9246 Jun 02 20:19	17° ♄ 34'39	3°07'41	evening set	9247 May 12 01:05	6° ♄ 46'59	
min. Earth dist.	9246 Jun 05 02:23	14° ♄ 57'56	0.64331 AU	inferior conj	9247 May 17 14:00	1° ♄ 03'24	3°20'18
morning rise	9246 Jun 08 17:06	11° ♄ 23'23		minimum elong	9247 May 17 14:24	1° ♄ 02'09	3°20'03
direct	9246 Jun 15 09:15	8° ♄ 41'46			9247 May 18 10:00	30° ♄	
desc. node	9246 Jun 16 13:46	8° ♄ 46'26		min. Earth dist.	9247 May 19 06:34	28° ♄ 55'28	0.66032 AU
morning max el	9246 Jun 29 02:01	16° ♄ 41'40	27°29'31	morning rise	9247 May 23 03:08	24° ♄ 44'02	
	9246 Jul 10 02:19	0° ♄		direct	9247 May 29 12:25	21° ♄ 58'26	
	9246 Jul 28 19:20	0° ♄		desc. node	9247 Jun 03 10:46	23° ♄ 19'14	
morning set	9246 Aug 03 06:23	10° ♄ 21'48		morning max el	9247 Jun 11 12:42	29° ♄ 42'59	26°33'24
max. Earth dist.	9246 Aug 08 00:23	19° ♄ 58'50	1.33069 AU		9247 Jun 11 19:22	0° ♄	
asc. node	9246 Aug 09 04:43	22° ♄ 26'57			9247 Jul 04 00:01	0° ♄	
superior conj	9246 Aug 11 08:46	27° ♄ 02'52	0°21'39	morning set	9247 Jul 17 10:56	23° ♄ 25'21	
minimum elong	9246 Aug 11 07:44	26° ♄ 57'17	0°21'14		9247 Jul 20 20:57	0° ♄	
	9246 Aug 12 17:49	0° ♄		max. Earth dist.	9247 Jul 21 12:54	1° ♄ 18'30	1.34523 AU
evening rise	9246 Aug 18 10:41	12° ♄ 15'50		superior conj	9247 Jul 26 07:27	10° ♄ 58'14	-0°07'34
	9246 Aug 27 10:14	0° ♄		minimum elong	9247 Jul 26 07:54	11° ♄ 00'29	0°07'43
evening max el	9246 Sep 09 05:18	17° ♄ 46'20	22°33'15	behind sun begin	9247 Jul 26 02:44	10° ♄ 33'48	
desc. node	9246 Sep 12 12:23	20° ♄ 36'45		behind sun end	9247 Jul 26 13:03	11° ♄ 27'11	
retrograde	9246 Sep 22 06:36	24° ♄ 16'56		asc. node	9247 Jul 27 01:40	12° ♄ 32'32	
evening set	9246 Sep 25 17:50	23° ♄ 50'28		evening rise	9247 Aug 02 20:05	26° ♄ 43'52	
min. Earth dist.	9246 Oct 03 12:27	20° ♄ 23'00	0.55007 AU		9247 Aug 04 09:59	0° ♄	
inferior conj	9246 Oct 04 14:23	19° ♄ 46'13	-5°24'09	evening max el	9247 Aug 22 00:47	28° ♄ 13'16	21°01'01
minimum elong	9246 Oct 04 08:26	19° ♄ 54'40	5°23'19		9247 Aug 23 23:48	0° ♄	
morning rise	9246 Oct 13 00:53	15° ♄ 58'31		desc. node	9247 Aug 30 09:33	3° ♄ 34'22	
direct	9246 Oct 16 06:08	15° ♄ 34'58		retrograde	9247 Sep 02 19:01	4° ♄ 03'03	
morning max el	9246 Oct 27 18:35	20° ♄ 59'31	21°09'47	evening set	9247 Sep 05 01:54	3° ♄ 50'42	
	9246 Nov 04 04:15	0° ♄		inferior conj	9247 Sep 14 06:47	29° ♄ 54'23	-4°14'14
asc. node	9246 Nov 05 04:41	1° ♄ 32'52		minimum elong	9247 Sep 13 21:03	0° ♄ 08'09	4°11'32
morning set	9246 Nov 16 14:41	22° ♄ 50'51			9247 Sep 14 02:49	30° ♄	
	9246 Nov 20 00:38	0° ♄		min. Earth dist.	9247 Sep 14 21:02	29° ♄ 34'11	0.54655 AU
superior conj	9246 Nov 23 22:12	8° ♄ 08'39	1°36'09	morning rise	9247 Sep 22 16:31	25° ♄ 59'24	
minimum elong	9246 Nov 23 23:41	8° ♄ 16'21	1°36'19	direct	9247 Sep 26 14:06	25° ♄ 26'45	
max. Earth dist.	9246 Nov 28 13:04	17° ♄ 29'52	1.35400 AU	morning max el	9247 Oct 09 12:15	1° ♄ 37'33	22°50'20

asc. node	9247 Oct 23 01:37	20° Ω 01'11			9248 Oct 03 20:24	0° Ω	
	9247 Oct 28 08:40	0° \mathbb{M}		asc. node	9248 Oct 08 22:33	9° Ω 03'26	
morning set	9247 Nov 01 01:43	7° \mathbb{M} 39'42		morning set	9248 Oct 15 13:32	22° Ω 28'27	
					9248 Oct 19 00:55	0° \mathbb{M}	
superior conj	9247 Nov 08 01:48	22° \mathbb{M} 41'16	1°40'38	superior conj	9248 Oct 22 10:15	7° \mathbb{M} 26'00	1°38'43
minimum elong	9247 Nov 08 02:01	22° \mathbb{M} 42'26	1°40'52	minimum elong	9248 Oct 22 09:21	7° \mathbb{M} 21'02	1°38'51
max. Earth dist.	9247 Nov 11 06:15	29° \mathbb{M} 24'55	1.33766 AU	max. Earth dist.	9248 Oct 24 07:42	11° \mathbb{M} 33'22	1.32570 AU
	9247 Nov 11 13:00	0° \mathbb{X}		evening rise	9248 Oct 29 17:38	22° \mathbb{M} 58'07	
evening rise	9247 Nov 15 22:53	8° \mathbb{X} 55'30			9248 Nov 02 06:29	0° \mathbb{X}	
desc. node	9247 Nov 26 08:01	27° \mathbb{X} 51'38		desc. node	9248 Nov 12 05:07	17° \mathbb{X} 43'30	
	9247 Nov 27 14:49	0° \mathbb{Z}			9248 Nov 20 08:26	0° \mathbb{Z}	
	9247 Dec 19 22:05	0° \approx		evening max el	9248 Dec 02 00:56	13° \mathbb{Z} 47'38	27°29'53
evening max el	9247 Dec 20 13:18	0° \approx 36'53	27°12'40	retrograde	9248 Dec 15 18:32	21° \mathbb{Z} 06'18	
retrograde	9248 Jan 02 23:57	7° \approx 58'47		evening set	9248 Dec 22 19:13	18° \mathbb{Z} 37'17	
evening set	9248 Jan 09 18:31	5° \approx 23'42		min. Earth dist.	9248 Dec 26 12:53	15° \mathbb{Z} 27'09	0.63267 AU
min. Earth dist.	9248 Jan 13 16:02	1° \approx 43'12	0.65013 AU	inferior conj	9248 Dec 29 06:02	12° \mathbb{Z} 45'18	-2°11'46
	9248 Jan 15 05:32	30° \mathbb{R} \mathbb{Z}		minimum elong	9248 Dec 29 10:16	12° \mathbb{Z} 34'47	2°09'48
inferior conj	9248 Jan 15 22:19	29° \mathbb{Z} 13'19	-1°02'22	asc. node	9249 Jan 04 22:06	7° \mathbb{Z} 35'33	
minimum elong	9248 Jan 16 00:11	29° \mathbb{Z} 08'09	1°01'19	morning rise	9249 Jan 05 03:20	7° \mathbb{Z} 30'30	
asc. node	9248 Jan 19 01:01	26° \mathbb{Z} 00'20		direct	9249 Jan 07 11:50	7° \mathbb{Z} 04'00	
morning rise	9248 Jan 22 07:21	23° \mathbb{Z} 42'55		morning max el	9249 Jan 14 01:56	10° \mathbb{Z} 27'44	17°47'31
direct	9248 Jan 24 22:27	23° \mathbb{Z} 06'25			9249 Jan 27 05:51	0° \approx	
morning max el	9248 Jan 31 08:27	26° \mathbb{Z} 29'02	17°58'57	morning set	9249 Jan 30 08:17	5° \approx 22'22	
	9248 Feb 03 10:10	0° \approx		desc. node	9249 Feb 08 04:30	20° \approx 31'18	
morning set	9248 Feb 18 02:29	22° \approx 56'12					
desc. node	9248 Feb 22 07:37	29° \approx 52'55		superior conj	9249 Feb 11 13:33	26° \approx 08'31	-0°24'45
	9248 Feb 22 09:20	0° \mathbb{X}		minimum elong	9249 Feb 11 10:56	25° \approx 57'46	0°24'11
superior conj	9248 Mar 03 06:44	15° \mathbb{X} 57'46	-1°08'34		9249 Feb 13 22:03	0° \mathbb{X}	
minimum elong	9248 Mar 02 23:03	15° \mathbb{X} 27'11	1°07'30	max. Earth dist.	9249 Feb 17 18:26	6° \mathbb{X} 12'30	1.44363 AU
max. Earth dist.	9248 Mar 07 00:21	21° \mathbb{X} 51'38	1.45321 AU	evening rise	9249 Feb 26 20:56	20° \mathbb{X} 28'01	
	9248 Mar 12 05:21	0° \mathbb{Y}			9249 Mar 05 03:19	0° \mathbb{Y}	
evening rise	9248 Mar 19 09:38	11° \mathbb{Y} 06'18			9249 Mar 26 18:59	0° \mathbb{B}	
	9248 Mar 31 19:23	0° \mathbb{B}		evening max el	9249 Mar 28 04:06	1° \mathbb{B} 27'45	20°50'31
greatest brilliancy	9248 Apr 02 11:21	2° \mathbb{B} 28'08	-0.6m	asc. node	9249 Apr 02 20:46	5° \mathbb{B} 45'51	
evening max el	9248 Apr 14 03:36	17° \mathbb{B} 46'43	19°46'16	retrograde	9249 Apr 05 12:32	6° \mathbb{B} 21'13	
asc. node	9248 Apr 15 23:37	19° \mathbb{B} 28'56		evening set	9249 Apr 09 15:35	4° \mathbb{B} 44'37	
retrograde	9248 Apr 21 13:57	22° \mathbb{B} 02'13			9249 Apr 13 21:41	30° \mathbb{R} \mathbb{Y}	
evening set	9248 Apr 25 07:29	20° \mathbb{B} 41'06		inferior conj	9249 Apr 14 22:42	28° \mathbb{Y} 34'21	3°04'10
inferior conj	9248 Apr 30 16:13	14° \mathbb{B} 43'17	3°18'08	minimum elong	9249 Apr 14 21:04	28° \mathbb{Y} 39'57	3°03'47
minimum elong	9248 Apr 30 15:28	14° \mathbb{B} 45'49	3°17'52	min. Earth dist.	9249 Apr 15 10:43	27° \mathbb{Y} 52'49	0.68127 AU
min. Earth dist.	9248 May 01 18:02	13° \mathbb{B} 17'01	0.67306 AU	morning rise	9249 Apr 20 02:21	22° \mathbb{Y} 18'49	
morning rise	9248 May 05 23:07	8° \mathbb{B} 24'39		direct	9249 Apr 25 12:02	19° \mathbb{Y} 55'16	
direct	9248 May 11 21:43	5° \mathbb{B} 45'55		morning max el	9249 May 06 07:38	26° \mathbb{Y} 22'47	23°48'13
desc. node	9248 May 20 07:44	9° \mathbb{B} 38'56		desc. node	9249 May 07 04:40	27° \mathbb{Y} 17'03	
morning max el	9248 May 23 22:28	12° \mathbb{B} 58'56	25°16'15		9249 May 09 15:42	0° \mathbb{B}	
	9248 Jun 06 16:05	0° \mathbb{I}			9249 May 31 05:45	0° \mathbb{I}	
	9248 Jun 25 18:16	0° \mathbb{E}		morning set	9249 Jun 10 16:00	17° \mathbb{I} 00'14	
morning set	9248 Jun 28 23:54	5° \mathbb{E} 42'57		max. Earth dist.	9249 Jun 14 11:39	23° \mathbb{I} 38'13	1.38633 AU
max. Earth dist.	9248 Jul 02 15:00	12° \mathbb{E} 22'02	1.36424 AU		9249 Jun 18 00:40	0° \mathbb{E}	
superior conj	9248 Jul 08 20:55	24° \mathbb{E} 24'05	-0°39'21	superior conj	9249 Jun 21 21:30	7° \mathbb{E} 10'49	-1°11'46
minimum elong	9248 Jul 08 23:21	24° \mathbb{E} 36'07	0°39'10	minimum elong	9249 Jun 22 02:06	7° \mathbb{E} 32'30	1°11'19
	9248 Jul 11 16:03	0° \mathbb{O}		asc. node	9249 Jun 29 19:39	22° \mathbb{E} 29'37	
asc. node	9248 Jul 12 22:39	2° \mathbb{O} 34'56		evening rise	9249 Jun 30 23:45	24° \mathbb{E} 47'04	
evening rise	9248 Jul 17 01:21	10° \mathbb{O} 56'51			9249 Jul 03 16:16	0° \mathbb{O}	
	9248 Jul 27 06:05	0° \mathbb{P}		evening max el	9249 Jul 17 06:55	21° \mathbb{O} 14'57	18°52'02
evening max el	9248 Aug 03 09:35	9° \mathbb{P} 21'49	19°46'12	retrograde	9249 Jul 25 18:07	25° \mathbb{O} 27'22	
retrograde	9248 Aug 13 10:54	14° \mathbb{P} 20'11		evening set	9249 Jul 27 17:01	25° \mathbb{O} 14'47	
evening set	9248 Aug 15 07:31	14° \mathbb{P} 10'45		desc. node	9249 Aug 03 03:53	22° \mathbb{O} 08'15	
desc. node	9248 Aug 16 06:43	13° \mathbb{P} 58'44		inferior conj	9249 Aug 04 21:06	20° \mathbb{O} 56'06	-0°31'37
inferior conj	9248 Aug 24 05:10	10° \mathbb{P} 08'58	-2°25'36	minimum elong	9249 Aug 04 19:47	20° \mathbb{O} 58'27	0°31'19
minimum elong	9248 Aug 23 22:34	10° \mathbb{P} 19'09	2°23'16	min. Earth dist.	9249 Aug 07 23:00	18° \mathbb{O} 44'47	0.56730 AU
min. Earth dist.	9248 Aug 26 08:07	8° \mathbb{P} 50'24	0.55268 AU	morning rise	9249 Aug 12 19:16	15° \mathbb{O} 57'44	
morning rise	9248 Sep 01 11:38	5° \mathbb{P} 47'21		direct	9249 Aug 18 07:40	14° \mathbb{O} 44'49	
direct	9248 Sep 06 04:22	4° \mathbb{P} 58'40		morning max el	9249 Sep 01 14:03	22° \mathbb{O} 08'02	26°12'33
morning max el	9248 Sep 20 00:19	11° \mathbb{P} 50'38	24°36'48		9249 Sep 08 12:52	0° \mathbb{P}	

asc. node	9249 Sep 25 19:29	28° \cap 30'02		morning max el	9250 Aug 14 10:12	2° Ω 57'34	27°21'28
	9249 Sep 26 13:24	0° Ω			9250 Sep 03 01:42	0° \cap	
morning set	9249 Sep 30 00:23	7° Ω 11'15		asc. node	9250 Sep 12 16:25	18° \cap 14'29	
				morning set	9250 Sep 14 08:35	21° \cap 43'49	
					9250 Sep 18 04:41	0° Ω	
superior conj	9249 Oct 06 21:19	22° Ω 14'56	1°30'59				
minimum elong	9249 Oct 06 19:35	22° Ω 05'16	1°30'55				
max. Earth dist.	9249 Oct 07 15:05	23° Ω 53'18	1.31833 AU	superior conj	9250 Sep 21 09:07	7° Ω 02'44	1°17'51
	9249 Oct 10 09:49	0° \cap		minimum elong	9250 Sep 21 06:56	6° Ω 50'34	1°17'33
evening rise	9249 Oct 13 19:56	7° \cap 19'27		max. Earth dist.	9250 Sep 21 01:00	6° Ω 17'36	1.31563 AU
	9249 Oct 25 17:48	0° \nearrow		evening rise	9250 Sep 28 03:23	21° Ω 53'00	
desc. node	9249 Oct 30 02:15	7° \nearrow 03'55			9250 Oct 02 01:18	0° \cap	
evening max el	9249 Nov 14 08:28	26° \nearrow 20'53	27°15'18	desc. node	9250 Oct 16 23:24	25° \cap 40'39	
	9249 Nov 18 18:18	0° \searrow			9250 Oct 20 03:59	0° \nearrow	
retrograde	9249 Nov 28 05:13	3° \searrow 33'02		evening max el	9250 Oct 27 09:03	8° \nearrow 05'15	26°26'34
evening set	9249 Dec 05 05:57	1° \searrow 19'27		retrograde	9250 Nov 10 07:04	15° \nearrow 11'16	
	9249 Dec 07 03:52	30° \cap \nearrow		evening set	9250 Nov 16 22:23	13° \nearrow 23'09	
min. Earth dist.	9249 Dec 08 23:04	28° \nearrow 33'11	0.61272 AU	min. Earth dist.	9250 Nov 20 22:26	10° \nearrow 48'25	0.59166 AU
inferior conj	9249 Dec 12 00:45	25° \nearrow 51'37	-3°24'04	inferior conj	9250 Nov 24 02:55	8° \nearrow 22'22	-4°32'19
minimum elong	9249 Dec 12 07:18	25° \nearrow 37'12	3°21'32	minimum elong	9250 Nov 24 10:31	8° \nearrow 07'49	4°30'06
morning rise	9249 Dec 19 11:02	20° \nearrow 55'56		morning rise	9250 Dec 02 01:08	3° \nearrow 48'54	
direct	9249 Dec 21 15:49	20° \nearrow 35'49		direct	9250 Dec 04 05:59	3° \nearrow 31'57	
asc. node	9249 Dec 22 19:09	20° \nearrow 41'23		asc. node	9250 Dec 09 16:11	5° \nearrow 21'25	
morning max el	9249 Dec 28 17:37	24° \nearrow 09'29	17°54'26	morning max el	9250 Dec 12 03:57	7° \nearrow 24'44	18°21'01
	9250 Jan 02 10:55	0° \searrow			9250 Dec 26 14:18	0° \searrow	
morning set	9250 Jan 13 09:29	18° \searrow 43'24		morning set	9250 Dec 28 00:16	2° \searrow 41'33	
	9250 Jan 19 15:02	0° \approx					
				superior conj	9251 Jan 06 05:02	20° \searrow 01'14	0°49'28
superior conj	9250 Jan 23 21:50	7° \approx 32'25	0°16'05	minimum elong	9251 Jan 06 08:08	20° \searrow 15'29	0°49'17
minimum elong	9250 Jan 23 23:14	7° \approx 38'28	0°16'07		9251 Jan 11 19:03	0° \approx	
desc. node	9250 Jan 26 01:26	11° \approx 14'25		desc. node	9251 Jan 12 22:22	1° \approx 58'24	
max. Earth dist.	9250 Jan 31 08:59	20° \approx 08'31	1.42796 AU	max. Earth dist.	9251 Jan 13 18:30	3° \approx 24'52	1.40800 AU
	9250 Feb 06 11:59	0° \times		evening rise	9251 Jan 18 06:58	10° \approx 59'37	
evening rise	9250 Feb 06 16:37	0° \times 18'14			9251 Jan 30 10:48	0° \times	
	9250 Feb 26 17:08	0° Υ		evening max el	9251 Feb 21 14:35	28° \times 54'36	23°24'55
evening max el	9250 Mar 10 23:19	15° Υ 10'11	22°05'04		9251 Feb 22 17:32	0° Υ	
retrograde	9250 Mar 20 09:59	20° Υ 45'39		retrograde	9251 Mar 04 04:53	5° Υ 10'24	
asc. node	9250 Mar 20 17:55	20° Υ 45'06		asc. node	9251 Mar 07 15:03	4° Υ 13'27	
evening set	9250 Mar 24 23:40	18° Υ 53'43		evening set	9251 Mar 09 06:11	3° Υ 03'59	
inferior conj	9250 Mar 30 07:16	12° Υ 33'29	2°40'03		9251 Mar 12 03:13	30° \cap \times	
minimum elong	9250 Mar 30 05:09	12° Υ 40'53	2°39'30	min. Earth dist.	9251 Mar 14 03:16	27° \times 20'48	0.68437 AU
min. Earth dist.	9250 Mar 30 06:32	12° Υ 36'02	0.68496 AU	inferior conj	9251 Mar 14 16:00	26° \times 37'02	2°06'39
morning rise	9250 Apr 04 10:28	6° Υ 22'23		minimum elong	9251 Mar 14 13:48	26° \times 44'37	2°06'01
direct	9250 Apr 09 06:17	4° Υ 19'07		morning rise	9251 Mar 19 21:23	20° \times 31'35	
morning max el	9250 Apr 18 18:57	9° Υ 54'54	22°19'04	direct	9251 Mar 24 03:31	18° \times 50'29	
desc. node	9250 Apr 24 01:35	15° Υ 52'07		morning max el	9251 Apr 01 11:42	23° \times 37'36	20°56'39
	9250 May 04 13:15	0° \searrow			9251 Apr 07 01:03	0° Υ	
morning set	9250 May 22 06:19	27° \searrow 05'44		desc. node	9251 Apr 10 22:27	5° Υ 08'04	
	9250 May 24 00:59	0° \cap			9251 Apr 27 21:19	0° \searrow	
max. Earth dist.	9250 May 27 10:06	5° \cap 37'39	1.40888 AU	morning set	9251 May 01 18:22	6° \searrow 00'21	
				max. Earth dist.	9251 May 09 14:23	18° \searrow 29'19	1.42914 AU
superior conj	9250 Jun 04 04:53	19° \cap 08'27	-1°41'33				
minimum elong	9250 Jun 04 10:55	19° \cap 35'26	1°41'09	superior conj	9251 May 16 14:19	0° \cap 05'50	-2°03'53
	9250 Jun 10 03:48	0° \searrow		minimum elong	9251 May 16 19:20	0° \cap 27'04	2°03'51
evening rise	9250 Jun 14 11:54	8° \searrow 06'08			9251 May 16 12:57	0° \cap	
asc. node	9250 Jun 16 16:42	12° \searrow 12'34		evening rise	9251 May 28 09:27	20° \cap 42'37	
	9250 Jun 27 07:46	0° Ω			9251 Jun 02 15:09	0° \searrow	
evening max el	9250 Jun 30 13:25	3° Ω 46'45	18°18'41	asc. node	9251 Jun 03 13:44	1° \searrow 37'58	
retrograde	9250 Jul 07 20:46	7° Ω 27'05		evening max el	9251 Jun 14 01:11	16° \searrow 47'01	18°05'16
evening set	9250 Jul 10 02:28	7° Ω 07'12		retrograde	9251 Jun 20 16:07	20° \searrow 10'36	
inferior conj	9250 Jul 17 10:55	2° Ω 28'03	1°03'02	evening set	9251 Jun 23 05:29	19° \searrow 40'11	
minimum elong	9250 Jul 17 12:57	2° Ω 23'46	1°02'03	inferior conj	9251 Jun 29 20:47	14° \searrow 41'12	2°10'42
	9250 Jul 20 09:40	30° \cap \searrow		minimum elong	9251 Jun 29 23:44	14° \searrow 34'04	2°09'37
min. Earth dist.	9250 Jul 20 20:00	29° \searrow 39'16	0.58753 AU	min. Earth dist.	9251 Jul 03 01:01	11° \searrow 37'32	0.61004 AU
desc. node	9250 Jul 21 00:59	29° \searrow 29'25		morning rise	9251 Jul 06 15:26	8° \searrow 43'31	
morning rise	9250 Jul 24 20:08	26° \searrow 55'00		desc. node	9251 Jul 07 22:03	7° \searrow 57'23	
direct	9250 Jul 31 00:57	25° \searrow 11'59		direct	9251 Jul 13 06:28	6° \searrow 30'54	
	9250 Aug 11 02:46	0° Ω		morning max el	9251 Jul 27 13:11	14° \searrow 30'24	27°54'04

	9251 Aug 09 01:22	0°♎		9252 Jul 11 22:06	0°♏	
	9251 Aug 26 13:01	0°♏		9252 Aug 01 16:48	0°♎	
morning set	9251 Aug 29 12:19	6°♏00'52		9252 Aug 12 09:20	19°♎55'35	
asc. node	9251 Aug 30 13:20	8°♏10'59		9252 Aug 16 10:14	28°♎14'18	
max. Earth dist.	9251 Sep 04 09:34	18°♏35'24	1.31761 AU	9252 Aug 17 06:14	0°♏	
				9252 Aug 17 12:52	0°♏35'16	1.32447 AU
superior conj	9251 Sep 05 19:51	21°♏43'57	0°59'40			
minimum elong	9251 Sep 05 17:40	21°♏31'57	0°59'13	superior conj	9252 Aug 20 03:36	6°♏12'26 0°36'46
	9251 Sep 09 13:41	0°♏		minimum elong	9252 Aug 20 01:59	6°♏03'37 0°36'18
evening rise	9251 Sep 12 13:51	6°♏32'46		evening rise	9252 Aug 27 01:25	21°♏12'35
	9251 Sep 24 17:30	0°♏			9252 Aug 31 06:51	0°♏
desc. node	9251 Oct 03 20:32	13°♏16'48		evening max el	9252 Sep 19 12:47	29°♏16'39 23°30'48
evening max el	9251 Oct 09 01:30	18°♏59'06	25°07'49	desc. node	9252 Sep 19 17:42	29°♏28'26
retrograde	9251 Oct 22 22:28	25°♏58'31			9252 Sep 20 07:11	0°♏
evening set	9251 Oct 28 15:51	24°♏44'03		retrograde	9252 Oct 03 01:12	6°♏01'44
min. Earth dist.	9251 Nov 02 13:14	22°♏02'49	0.57174 AU	evening set	9252 Oct 07 09:06	5°♏20'53
inferior conj	9251 Nov 05 09:34	20°♏09'16	-5°23'38	min. Earth dist.	9252 Oct 13 22:49	2°♏14'46 0.55601 AU
minimum elong	9251 Nov 05 14:52	20°♏00'25	5°22'44	inferior conj	9252 Oct 15 20:06	1°♏07'48 -5°39'02
morning rise	9251 Nov 13 16:12	15°♏58'24		minimum elong	9252 Oct 15 18:39	1°♏09'57 5°38'51
direct	9251 Nov 16 02:07	15°♏41'30			9252 Oct 17 18:37	30°♏
morning max el	9251 Nov 25 05:13	20°♏03'16	19°08'57	morning rise	9252 Oct 24 06:10	27°♏14'41
asc. node	9251 Nov 26 13:10	21°♏25'05		direct	9252 Oct 27 03:09	26°♏54'25
	9251 Dec 02 19:11	0°♏			9252 Nov 04 11:48	0°♏
morning set	9251 Dec 12 00:21	17°♏04'34		morning max el	9252 Nov 06 18:04	1°♏54'33 20°19'26
	9251 Dec 18 12:51	0°♏		asc. node	9252 Nov 12 10:08	8°♏36'09
					9252 Nov 24 10:24	0°♏
superior conj	9251 Dec 20 06:12	3°♏20'51	1°14'07	morning set	9252 Nov 25 06:31	1°♏42'38
minimum elong	9251 Dec 20 09:18	3°♏35'52	1°14'02			
max. Earth dist.	9251 Dec 27 00:20	15°♏57'56	1.38620 AU	superior conj	9252 Dec 02 20:30	17°♏16'45 1°30'20
evening rise	9251 Dec 30 19:10	22°♏39'09		minimum elong	9252 Dec 02 22:42	17°♏27'51 1°30'26
desc. node	9251 Dec 30 19:21	22°♏39'53		max. Earth dist.	9252 Dec 08 07:11	28°♏00'05 1.36507 AU
	9252 Jan 04 03:29	0°♏			9252 Dec 09 08:26	0°♏
	9252 Jan 24 07:56	0°♏		evening rise	9252 Dec 12 03:18	5°♏10'27
evening max el	9252 Feb 04 04:02	12°♏42'18	24°43'51	desc. node	9252 Dec 16 16:21	13°♏14'08
retrograde	9252 Feb 15 20:00	19°♏30'39			9252 Dec 27 01:09	0°♏
evening set	9252 Feb 21 09:34	17°♏11'30		evening max el	9253 Jan 16 17:20	26°♏30'39 25°54'51
asc. node	9252 Feb 22 12:09	16°♏09'36			9253 Jan 20 16:54	0°♏
min. Earth dist.	9252 Feb 25 22:46	12°♏02'50	0.67970 AU	retrograde	9253 Jan 29 06:17	3°♏40'01
inferior conj	9252 Feb 26 23:04	10°♏42'11	1°24'29	evening set	9253 Feb 04 08:11	1°♏10'59
minimum elong	9252 Feb 26 21:16	10°♏48'11	1°23'57		9253 Feb 05 15:13	30°♏
morning rise	9252 Mar 03 09:09	4°♏43'43		asc. node	9253 Feb 08 09:16	26°♏53'45
direct	9252 Mar 07 02:29	3°♏24'12		min. Earth dist.	9253 Feb 08 14:42	26°♏36'58 0.67111 AU
morning max el	9252 Mar 14 12:01	7°♏32'08	19°46'33	inferior conj	9253 Feb 10 02:32	24°♏44'32 0°33'47
greatest brilliancy	9252 Mar 27 08:21	24°♏13'51	-0.6m	minimum elong	9253 Feb 10 01:41	24°♏47'12 0°33'38
desc. node	9252 Mar 27 19:19	24°♏54'04		morning rise	9253 Feb 15 19:45	18°♏54'59
	9252 Mar 31 05:45	0°♏		direct	9253 Feb 19 01:39	17°♏54'45
morning set	9252 Apr 09 16:25	14°♏22'06		morning max el	9253 Feb 25 19:56	21°♏35'41 18°51'44
	9252 Apr 19 17:05	0°♏			9253 Mar 04 15:45	0°♏
max. Earth dist.	9252 Apr 21 01:24	2°♏07'59	1.44470 AU	desc. node	9253 Mar 14 16:12	15°♏01'45
				morning set	9253 Mar 20 00:26	23°♏20'22
superior conj	9252 Apr 25 23:15	9°♏59'49	-2°12'30		9253 Mar 24 06:55	0°♏
minimum elong	9252 Apr 25 23:07	9°♏59'14	2°12'40	max. Earth dist.	9253 Apr 03 18:14	16°♏21'49 1.45381 AU
	9252 May 08 01:09	0°♏				
evening rise	9252 May 09 11:41	2°♏26'18		superior conj	9253 Apr 05 11:30	19°♏03'47 -2°01'51
asc. node	9252 May 20 10:46	20°♏39'44		minimum elong	9253 Apr 05 04:17	18°♏35'26 2°01'31
	9252 May 27 11:57	0°♏			9253 Apr 12 09:34	0°♏
evening max el	9252 May 27 14:44	0°♏06'57	18°10'50	evening rise	9253 Apr 20 14:48	13°♏11'20
retrograde	9252 Jun 02 23:43	3°♏28'22			9253 May 01 01:50	0°♏
evening set	9252 Jun 05 20:42	2°♏45'06		asc. node	9253 May 07 07:51	9°♏10'17
	9252 Jun 09 12:29	30°♏		evening max el	9253 May 11 03:07	13°♏39'09 18°34'33
inferior conj	9252 Jun 11 22:46	27°♏27'42	2°53'15	retrograde	9253 May 17 15:30	17°♏12'03
minimum elong	9252 Jun 12 01:06	27°♏21'18	2°52'32	evening set	9253 May 20 20:07	16°♏14'30
min. Earth dist.	9252 Jun 14 15:03	24°♏32'24	0.63195 AU	inferior conj	9253 May 26 12:50	10°♏40'05 3°15'15
morning rise	9252 Jun 18 03:55	21°♏16'02		minimum elong	9253 May 26 13:58	10°♏36'39 3°14'52
desc. node	9252 Jun 23 19:06	18°♏45'32		min. Earth dist.	9253 May 28 14:11	8°♏11'27 0.65111 AU
direct	9252 Jun 24 21:48	18°♏41'31		morning rise	9253 Jun 01 06:59	4°♏22'14
morning max el	9252 Jul 08 20:59	26°♏44'36	27°48'26	direct	9253 Jun 07 20:58	1°♏37'22

desc. node	9253 Jun 10 16:07	2°♄03'21		morning rise	9254 May 15 21:36	17°♄51'58	
morning max el	9253 Jun 21 07:12	9°♄31'57	27°08'44	direct	9254 May 22 02:41	15°♄08'24	
	9253 Jul 07 08:00	0°♄		desc. node	9254 May 28 13:07	17°♄25'22	
	9253 Jul 25 02:56	0°♄		morning max el	9254 Jun 03 17:38	22°♄40'40	26°02'38
morning set	9253 Jul 26 20:54	3°♄20'44			9254 Jun 10 04:16	0°♄	
max. Earth dist.	9253 Jul 31 07:35	12°♄10'40	1.33632 AU		9254 Jun 30 15:14	0°♄	
asc. node	9253 Aug 03 07:10	18°♄20'29		morning set	9254 Jul 09 19:23	16°♄05'59	
				max. Earth dist.	9254 Jul 13 15:46	23°♄22'35	1.35293 AU
superior conj	9253 Aug 04 06:22	20°♄22'22	0°09'41		9254 Jul 17 00:41	0°♄	
minimum elong	9253 Aug 04 05:52	20°♄19'46	0°09'23				
behind sun begin	9253 Aug 04 01:17	19°♄55'39		superior conj	9254 Jul 19 01:31	4°♄06'04	-0°20'49
behind sun end	9253 Aug 04 10:27	20°♄43'56		minimum elong	9254 Jul 19 02:44	4°♄12'19	0°20'49
	9253 Aug 08 18:53	0°♄		asc. node	9254 Jul 21 04:07	8°♄25'03	
evening rise	9253 Aug 11 12:13	5°♄47'10		evening rise	9254 Jul 26 20:11	20°♄09'47	
	9253 Aug 24 12:31	0°♄			9254 Jul 31 17:54	0°♄	
evening max el	9253 Sep 01 02:50	9°♄30'15	21°52'20	evening max el	9254 Aug 14 03:37	20°♄12'24	20°26'35
desc. node	9253 Sep 06 14:51	13°♄46'03		desc. node	9254 Aug 24 12:01	25°♄39'31	
retrograde	9253 Sep 13 16:23	15°♄44'53		retrograde	9254 Aug 25 04:41	25°♄40'46	
evening set	9253 Sep 16 13:49	15°♄26'08		evening set	9254 Aug 27 05:15	25°♄30'31	
inferior conj	9253 Sep 25 15:44	11°♄27'05	-5°00'58	inferior conj	9254 Sep 05 08:48	21°♄33'09	-3°30'54
minimum elong	9253 Sep 25 07:17	11°♄38'54	4°59'16	minimum elong	9254 Sep 04 23:45	21°♄46'19	3°28'00
min. Earth dist.	9253 Sep 25 06:35	11°♄39'53	0.54748 AU	min. Earth dist.	9254 Sep 06 15:39	20°♄48'18	0.54808 AU
morning rise	9253 Oct 04 02:04	7°♄38'55		morning rise	9254 Sep 13 17:42	17°♄29'16	
direct	9253 Oct 07 14:19	7°♄11'52		direct	9254 Sep 17 23:09	16°♄50'55	
morning max el	9253 Oct 19 17:43	12°♄55'59	21°50'53	morning max el	9254 Oct 01 08:02	23°♄19'23	23°35'55
asc. node	9253 Oct 30 07:07	26°♄39'57			9254 Oct 07 07:29	0°♄	
	9253 Nov 01 06:02	0°♄		asc. node	9254 Oct 17 04:04	15°♄23'35	
morning set	9253 Nov 09 16:22	16°♄29'08			9254 Oct 24 13:09	0°♄	
	9253 Nov 16 01:29	0°♄		morning set	9254 Oct 25 03:58	1°♄18'27	
superior conj	9253 Nov 16 20:10	1°♄38'17	1°38'52	superior conj	9254 Nov 01 02:07	16°♄16'36	1°40'34
minimum elong	9253 Nov 16 21:06	1°♄43'15	1°39'05	minimum elong	9254 Nov 01 01:50	16°♄15'03	1°40'46
max. Earth dist.	9253 Nov 20 20:07	9°♄53'28	1.34660 AU	max. Earth dist.	9254 Nov 03 17:07	21°♄54'05	1.33201 AU
evening rise	9253 Nov 25 03:44	18°♄24'18			9254 Nov 07 14:41	0°♄	
	9253 Dec 01 11:17	0°♄		evening rise	9254 Nov 08 16:44	2°♄11'14	
desc. node	9253 Dec 03 13:23	3°♄36'37		desc. node	9254 Nov 20 10:28	23°♄41'42	
	9253 Dec 21 05:55	0°♄			9254 Nov 24 08:27	0°♄	
evening max el	9253 Dec 30 06:48	10°♄12'34	26°50'28	evening max el	9254 Dec 12 19:27	23°♄37'35	27°23'35
retrograde	9254 Jan 12 10:51	17°♄31'52			9254 Dec 21 19:48	0°♄	
evening set	9254 Jan 19 00:09	14°♄57'14		retrograde	9254 Dec 26 09:17	0°♄58'33	
min. Earth dist.	9254 Jan 23 00:46	10°♄57'41	0.65882 AU		9254 Dec 30 16:14	30°♄	
inferior conj	9254 Jan 25 00:18	8°♄39'29	-0°25'04	evening set	9255 Jan 02 07:15	28°♄24'45	
minimum elong	9254 Jan 25 01:01	8°♄37'25	0°24'32	min. Earth dist.	9255 Jan 06 02:49	24°♄58'02	0.64305 AU
asc. node	9254 Jan 26 06:23	7°♄13'13		inferior conj	9255 Jan 08 13:58	22°♄21'43	-1°31'11
morning rise	9254 Jan 31 02:58	3°♄01'19		minimum elong	9255 Jan 08 16:48	22°♄14'13	1°29'44
direct	9254 Feb 02 23:01	2°♄17'07		asc. node	9255 Jan 13 03:30	18°♄07'06	
morning max el	9254 Feb 09 09:45	5°♄43'01	18°13'24	morning rise	9255 Jan 15 04:04	16°♄57'48	
	9254 Feb 26 04:30	0°♄		direct	9255 Jan 17 16:09	16°♄25'57	
morning set	9254 Feb 28 11:18	3°♄41'02		morning max el	9255 Jan 24 02:52	19°♄47'35	17°52'02
desc. node	9254 Mar 01 13:04	5°♄24'52			9255 Jan 31 19:10	0°♄	
superior conj	9254 Mar 15 17:04	27°♄56'20	-1°31'51	morning set	9255 Feb 10 02:58	15°♄26'25	
minimum elong	9254 Mar 15 07:36	27°♄19'11	1°30'50	desc. node	9255 Feb 16 09:57	25°♄58'58	
	9254 Mar 17 00:36	0°♄			9255 Feb 18 20:23	0°♄	
max. Earth dist.	9254 Mar 17 14:08	0°♄52'57	1.45557 AU	superior conj	9255 Feb 23 10:59	7°♄29'25	-0°50'06
evening rise	9254 Mar 31 19:07	23°♄02'53		minimum elong	9255 Feb 23 05:22	7°♄06'48	0°49'11
	9254 Apr 05 06:13	0°♄		max. Earth dist.	9255 Feb 28 09:38	15°♄22'28	1.44990 AU
greatest brilliancy	9254 Apr 12 09:22	10°♄59'48	-0.7m		9255 Mar 09 18:51	0°♄	
asc. node	9254 Apr 24 04:58	26°♄59'05		evening rise	9255 Mar 11 08:35	2°♄25'00	
evening max el	9254 Apr 24 11:54	27°♄16'49	19°15'31	greatest brilliancy	9255 Mar 26 04:51	24°♄44'49	-0.6m
	9254 Apr 27 18:23	0°♄			9255 Mar 29 21:03	0°♄	
retrograde	9254 May 01 12:03	1°♄13'42		evening max el	9255 Apr 07 15:31	10°♄56'44	20°12'00
evening set	9254 May 05 00:41	0°♄01'08		asc. node	9255 Apr 11 02:07	13°♄53'52	
	9254 May 05 01:21	30°♄		retrograde	9255 Apr 15 10:38	15°♄27'54	
inferior conj	9254 May 10 11:27	24°♄11'11	3°20'58	evening set	9255 Apr 19 08:04	14°♄00'05	
minimum elong	9254 May 10 11:20	24°♄11'34	3°20'43	inferior conj	9255 Apr 24 15:48	7°♄56'26	3°13'33
min. Earth dist.	9254 May 11 21:33	22°♄20'40	0.66630 AU	minimum elong	9255 Apr 24 14:38	8°♄00'23	3°13'15

min. Earth dist.	9255 Apr 25 11:32	6°♄49'19	0.67706 AU	evening set	9256 Apr 02 16:21	28°♄06'07	
morning rise	9255 Apr 29 20:58	1°♄38'49		inferior conj	9256 Apr 07 23:25	21°♄51'06	2°55'07
	9255 May 02 03:33	30°♄♄		minimum elong	9256 Apr 07 21:32	21°♄57'39	2°54'40
direct	9255 May 05 14:06	29°♄05'59		min. Earth dist.	9256 Apr 08 05:56	21°♄28'26	0.68331 AU
	9255 May 09 07:50	0°♄		morning rise	9256 Apr 13 02:31	15°♄37'01	
desc. node	9255 May 15 10:05	4°♄21'26		direct	9256 Apr 18 06:16	13°♄21'38	
morning max el	9255 May 17 03:13	6°♄01'15	24°39'38	morning max el	9256 Apr 28 12:56	19°♄28'10	23°09'54
	9255 Jun 04 16:39	0°♄		desc. node	9256 May 01 06:59	22°♄25'32	
morning set	9255 Jun 22 00:12	27°♄59'50			9256 May 07 10:35	0°♄	
	9255 Jun 23 03:22	0°♄			9256 May 27 20:39	0°♄	
max. Earth dist.	9255 Jun 25 15:02	4°♄28'36	1.37343 AU	morning set	9256 Jun 02 05:53	8°♄47'57	
				max. Earth dist.	9256 Jun 06 11:09	15°♄58'11	1.39595 AU
superior conj	9255 Jul 02 09:58	17°♄16'06	-0°53'10				
minimum elong	9255 Jul 02 13:20	17°♄32'27	0°52'51	superior conj	9256 Jun 14 03:48	29°♄43'05	-1°24'57
asc. node	9255 Jul 08 01:06	28°♄24'28		minimum elong	9256 Jun 14 09:10	0°♄07'53	1°24'30
	9255 Jul 08 20:10	0°♄			9256 Jun 14 07:28	0°♄	
evening rise	9255 Jul 10 22:55	4°♄14'06		evening rise	9256 Jun 23 17:25	17°♄52'04	
	9255 Jul 26 04:37	0°♄		asc. node	9256 Jun 23 22:08	18°♄14'39	
evening max el	9255 Jul 27 17:58	1°♄39'44	19°20'27		9256 Jun 30 05:01	0°♄	
retrograde	9255 Aug 06 02:25	6°♄17'41		evening max el	9256 Jul 09 19:45	13°♄51'05	18°35'25
evening set	9255 Aug 07 22:47	6°♄07'36		retrograde	9256 Jul 17 17:47	17°♄47'49	
desc. node	9255 Aug 11 09:10	5°♄00'35		evening set	9256 Jul 19 19:15	17°♄32'41	
inferior conj	9255 Aug 16 13:41	1°♄59'21	-1°36'01	inferior conj	9256 Jul 27 14:57	13°♄05'50	0°11'35
minimum elong	9255 Aug 16 09:24	2°♄06'23	1°34'31	minimum elong	9256 Jul 27 15:23	13°♄05'01	0°11'11
min. Earth dist.	9255 Aug 19 04:18	0°♄17'02	0.55801 AU	transit middle	9256 Jul 27 15:23	13°♄05'01	0°11'11
	9255 Aug 19 15:05	30°♄♄		transit begin	9256 Jul 27 12:46	13°♄10'00	
morning rise	9255 Aug 24 17:16	27°♄22'10		transit end	9256 Jul 27 17:59	13°♄00'01	
direct	9255 Aug 29 18:11	26°♄24'21		desc. node	9256 Jul 28 06:17	12°♄36'21	
	9255 Sep 08 14:28	0°♄		min. Earth dist.	9256 Jul 30 21:52	10°♄35'50	0.57539 AU
morning max el	9255 Sep 12 20:16	3°♄31'16	25°19'55	morning rise	9256 Aug 04 07:58	7°♄51'38	
	9255 Oct 01 14:27	0°♄		direct	9256 Aug 10 04:05	6°♄25'58	
asc. node	9255 Oct 04 00:59	4°♄36'56		morning max el	9256 Aug 24 12:28	14°♄00'35	26°45'46
morning set	9255 Oct 09 15:33	16°♄05'08			9256 Sep 06 06:24	0°♄	
				asc. node	9256 Sep 19 21:54	24°♄12'07	
superior conj	9255 Oct 16 11:56	1°♄03'50	1°36'08		9256 Sep 22 17:05	0°♄	
minimum elong	9255 Oct 16 10:38	0°♄56'39	1°36'11	morning set	9256 Sep 23 01:30	0°♄44'36	
	9255 Oct 16 00:21	0°♄					
max. Earth dist.	9255 Oct 17 21:19	4°♄07'09	1.32194 AU	superior conj	9256 Sep 29 23:34	15°♄53'43	1°26'04
evening rise	9255 Oct 23 15:00	16°♄22'18		minimum elong	9256 Sep 29 21:35	15°♄42'42	1°25'54
	9255 Oct 30 13:47	0°♄		max. Earth dist.	9256 Sep 30 06:05	16°♄29'52	1.31659 AU
desc. node	9255 Nov 07 07:35	13°♄21'16			9256 Oct 06 10:19	0°♄	
	9255 Nov 19 03:42	0°♄		evening rise	9256 Oct 06 19:48	0°♄50'14	
evening max el	9255 Nov 25 05:25	6°♄32'52	27°27'47		9256 Oct 22 14:47	0°♄	
retrograde	9255 Dec 09 00:50	13°♄49'50		desc. node	9256 Oct 24 04:42	2°♄25'05	
evening set	9255 Dec 16 02:30	11°♄25'47		evening max el	9256 Nov 06 10:18	18°♄46'44	26°58'42
min. Earth dist.	9255 Dec 19 19:08	8°♄27'11	0.62435 AU	retrograde	9256 Nov 20 08:15	25°♄56'40	
inferior conj	9255 Dec 22 16:33	5°♄43'23	-2°42'27	evening set	9256 Nov 27 06:03	23°♄52'52	
minimum elong	9255 Dec 22 21:49	5°♄30'54	2°40'09	min. Earth dist.	9256 Dec 01 00:54	21°♄13'04	0.60376 AU
morning rise	9255 Dec 29 19:25	0°♄36'40		inferior conj	9256 Dec 04 04:40	18°♄36'01	-3°54'09
asc. node	9255 Dec 31 00:36	0°♄18'29		minimum elong	9256 Dec 04 11:55	18°♄20'55	3°51'37
direct	9256 Jan 01 01:51	0°♄13'25		morning rise	9256 Dec 11 20:18	13°♄49'24	
morning max el	9256 Jan 07 20:04	3°♄40'20	17°48'14	direct	9256 Dec 14 00:24	13°♄31'08	
morning set	9256 Jan 23 17:46	28°♄17'40		asc. node	9256 Dec 16 21:37	14°♄04'52	
	9256 Jan 24 16:51	0°♄		morning max el	9256 Dec 21 09:56	17°♄12'11	18°03'10
desc. node	9256 Feb 03 06:51	16°♄39'32			9256 Dec 30 11:29	0°♄	
				morning set	9257 Jan 06 01:21	11°♄56'04	
superior conj	9256 Feb 04 04:36	18°♄11'17	-0°06'45				
minimum elong	9256 Feb 04 03:57	18°♄08'34	0°06'25	superior conj	9257 Jan 15 23:08	0°♄03'53	0°31'17
behind sun begin	9256 Feb 03 19:42	17°♄33'46		minimum elong	9257 Jan 16 01:31	0°♄14'29	0°31'10
behind sun end	9256 Feb 04 12:12	18°♄43'18			9257 Jan 15 22:15	0°♄	
max. Earth dist.	9256 Feb 11 02:00	29°♄32'41	1.43753 AU	desc. node	9257 Jan 20 03:48	7°♄23'15	
	9256 Feb 11 08:47	0°♄		max. Earth dist.	9257 Jan 23 13:57	13°♄10'51	1.41989 AU
evening rise	9256 Feb 18 21:36	11°♄53'54		evening rise	9257 Jan 29 00:25	22°♄04'00	
	9256 Mar 01 21:35	0°♄			9257 Feb 03 01:29	0°♄	
evening max el	9256 Mar 20 13:32	24°♄37'23	21°21'14		9257 Feb 24 01:46	0°♄	
asc. node	9256 Mar 27 23:17	29°♄39'12		evening max el	9257 Mar 03 06:53	8°♄20'13	22°38'49
retrograde	9256 Mar 29 09:01	29°♄49'08		retrograde	9257 Mar 13 05:28	14°♄13'24	

asc. node	9257 Mar 14 20:24	14° Υ 00'20			9258 Jan 27 07:17	0° X	
evening set	9257 Mar 17 23:54	12° Υ 15'24		evening max el	9258 Feb 13 21:18	22° X 06'36	23°59'04
inferior conj	9257 Mar 23 08:16	5° Υ 51'59	2°26'58	retrograde	9258 Feb 24 22:43	28° X 36'41	
minimum elong	9257 Mar 23 06:03	5° Υ 59'41	2°26'22	asc. node	9258 Mar 01 17:30	26° X 48'29	
min. Earth dist.	9257 Mar 23 02:27	6° Υ 12'11	0.68522 AU	evening set	9258 Mar 02 05:14	26° X 24'40	
	9257 Mar 28 04:13	30° R X		min. Earth dist.	9258 Mar 06 22:52	20° X 56'16	0.68290 AU
morning rise	9257 Mar 28 12:03	29° X 42'57		inferior conj	9258 Mar 07 16:30	19° X 56'26	1°49'49
direct	9257 Apr 02 02:03	27° X 48'47		minimum elong	9258 Mar 07 14:24	20° X 03'33	1°49'12
	9257 Apr 07 14:08	0° Υ		morning rise	9258 Mar 12 23:35	13° X 53'50	
morning max el	9257 Apr 11 01:56	3° Υ 03'04	21°42'41	direct	9258 Mar 17 00:15	12° X 21'57	
desc. node	9257 Apr 18 03:53	11° Υ 19'02		morning max el	9258 Mar 24 21:42	16° X 50'26	20°25'07
	9257 May 01 10:39	0° B			9258 Apr 04 10:55	0° Υ	
morning set	9257 May 13 08:23	18° B 20'24		desc. node	9258 Apr 05 00:47	0° Υ 48'49	
max. Earth dist.	9257 May 19 11:18	28° B 17'22	1.41791 AU	morning set	9258 Apr 22 12:04	26° Υ 53'38	
	9257 May 20 11:59	0° II			9258 Apr 24 12:03	0° B	
				max. Earth dist.	9258 May 01 19:05	11° B 32'30	1.43647 AU
superior conj	9257 May 27 02:21	11° II 15'52	-1°52'17				
minimum elong	9257 May 27 08:23	11° II 42'11	1°52'02	superior conj	9258 May 08 01:29	21° B 46'12	-2°09'37
evening rise	9257 Jun 06 23:52	0° B 53'32		minimum elong	9258 May 08 04:50	22° B 00'05	2°09'43
	9257 Jun 06 12:12	0° B			9258 May 12 23:07	0° II	
asc. node	9257 Jun 10 19:09	7° B 50'20		evening rise	9258 May 20 13:46	13° II 08'43	
evening max el	9257 Jun 23 05:01	26° B 36'16	18°10'42	asc. node	9258 May 28 16:11	27° II 06'25	
	9257 Jun 28 21:10	0° Ω			9258 May 30 10:53	0° B	
retrograde	9257 Jun 30 03:49	0° Ω 07'12		evening max el	9258 Jun 06 17:57	9° B 45'49	18°05'22
	9257 Jul 01 10:48	30° R B		retrograde	9258 Jun 13 05:01	13° B 06'40	
evening set	9257 Jul 02 12:54	29° B 43'05		evening set	9258 Jun 15 21:44	12° B 30'52	
inferior conj	9257 Jul 09 13:38	24° B 55'27	1°35'01	inferior conj	9258 Jun 22 06:52	7° B 23'34	2°31'34
minimum elong	9257 Jul 09 16:18	24° B 49'28	1°33'53	minimum elong	9258 Jun 22 09:40	7° B 16'22	2°30'37
min. Earth dist.	9257 Jul 12 21:55	21° B 57'29	0.59702 AU	min. Earth dist.	9258 Jun 25 06:28	4° B 21'12	0.61957 AU
desc. node	9257 Jul 15 03:22	20° B 12'22		morning rise	9258 Jun 28 19:34	1° B 18'56	
morning rise	9257 Jul 16 16:42	19° B 10'57			9258 Jul 01 00:38	30° R II	
direct	9257 Jul 23 03:00	17° B 14'39		desc. node	9258 Jul 02 00:25	29° II 34'44	
morning max el	9257 Aug 06 11:19	25° B 06'43	27°40'01	direct	9258 Jul 05 12:39	28° II 56'08	
	9257 Aug 10 23:16	0° Ω			9258 Jul 10 07:00	0° B	
	9257 Aug 30 15:31	0° M		morning max el	9258 Jul 19 16:39	6° B 57'34	27°56'19
asc. node	9257 Sep 06 18:48	14° M 02'04			9258 Aug 06 04:58	0° Ω	
morning set	9257 Sep 07 08:01	15° M 10'57		morning set	9258 Aug 22 09:11	29° Ω 18'59	
max. Earth dist.	9257 Sep 13 15:52	28° M 52'38	1.31594 AU		9258 Aug 22 17:11	0° M	
				asc. node	9258 Aug 24 15:44	4° M 01'47	
superior conj	9257 Sep 14 11:07	0° B 39'21	1°10'45	max. Earth dist.	9258 Aug 27 22:53	11° M 04'53	1.32000 AU
minimum elong	9257 Sep 14 08:53	0° B 26'54	1°10'23				
	9257 Sep 14 04:01	0° B		superior conj	9258 Aug 29 20:48	15° M 15'27	0°50'31
evening rise	9257 Sep 21 04:47	15° B 27'18		minimum elong	9258 Aug 29 18:48	15° M 04'26	0°50'02
	9257 Sep 28 09:09	0° M		evening rise	9258 Sep 05 15:57	0° B 07'41	
desc. node	9257 Oct 11 01:50	20° M 38'15			9258 Sep 05 14:31	0° B	
	9257 Oct 19 03:33	0° X			9258 Sep 21 23:44	0° M	
evening max el	9257 Oct 19 07:39	0° X 09'46	25°56'14	desc. node	9258 Sep 27 22:58	7° M 41'24	
retrograde	9257 Nov 02 05:36	7° X 12'23		evening max el	9258 Sep 30 21:14	10° M 44'52	24°27'42
evening set	9257 Nov 08 13:09	5° X 38'17		retrograde	9258 Oct 14 15:22	17° M 39'06	
min. Earth dist.	9257 Nov 12 20:24	3° X 02'57	0.58296 AU	evening set	9258 Oct 19 19:54	16° M 39'25	
inferior conj	9257 Nov 15 22:49	0° X 49'05	-4°57'08	min. Earth dist.	9258 Oct 25 08:08	13° M 49'57	0.56445 AU
minimum elong	9257 Nov 16 05:58	0° X 36'09	4°55'25	inferior conj	9258 Oct 27 20:40	12° M 14'51	-5°35'44
	9257 Nov 17 02:15	30° R M		minimum elong	9258 Oct 27 23:34	12° M 10'17	5°35'22
morning rise	9257 Nov 24 01:08	26° M 24'57		morning rise	9258 Nov 05 05:23	8° M 12'43	
direct	9257 Nov 26 07:31	26° M 08'19		direct	9258 Nov 07 19:35	7° M 54'39	
asc. node	9257 Dec 03 18:36	29° M 21'41		morning max el	9258 Nov 17 12:58	12° M 31'09	19°36'11
	9257 Dec 04 11:34	0° X		asc. node	9258 Nov 20 15:35	15° M 55'34	
morning max el	9257 Dec 04 16:45	0° X 12'24	18°38'37		9258 Nov 29 13:11	0° X	
morning set	9257 Dec 20 20:33	26° X 06'05		morning set	9258 Dec 04 23:33	10° X 36'21	
	9257 Dec 22 20:41	0° B					
superior conj	9257 Dec 29 14:33	12° B 55'34	1°01'00	superior conj	9258 Dec 12 21:50	26° X 31'58	1°21'59
minimum elong	9257 Dec 29 17:50	13° B 10'53	1°00'50	minimum elong	9258 Dec 13 00:38	26° X 45'44	1°21'59
max. Earth dist.	9258 Jan 05 21:49	26° B 09'19	1.39888 AU		9258 Dec 14 16:26	0° B	
desc. node	9258 Jan 07 00:46	28° B 06'25		max. Earth dist.	9258 Dec 19 03:50	8° B 28'25	1.37702 AU
	9258 Jan 08 03:11	0° \approx		evening rise	9258 Dec 22 21:06	15° B 12'13	
evening rise	9258 Jan 10 00:05	3° \approx 10'15		desc. node	9258 Dec 24 21:44	18° B 45'02	
					9258 Dec 31 15:55	0° \approx	

	9259 Jan 21 23:56	0°♄			9259 Dec 24 23:09	0°♁		
evening max el	9259 Jan 27 10:29	5°♄54'42	25°15'26	evening max el	9260 Jan 09 23:42	19°♁41'01	26°20'43	
retrograde	9259 Feb 08 11:47	12°♄53'11		retrograde	9260 Jan 22 19:55	26°♁56'38		
evening set	9259 Feb 14 06:48	10°♄29'07		evening set	9260 Jan 29 02:54	24°♁24'18		
asc. node	9259 Feb 16 14:37	8°♄09'40		min. Earth dist.	9260 Feb 02 06:41	20°♁05'10	0.66633 AU	
min. Earth dist.	9259 Feb 18 16:59	5°♄35'32	0.67653 AU	asc. node	9260 Feb 03 11:45	18°♁36'50		
inferior conj	9259 Feb 19 22:15	4°♄00'31	1°04'00	inferior conj	9260 Feb 03 23:36	18°♁00'35	0°09'48	
minimum elong	9259 Feb 19 20:47	4°♄05'18	1°03'35	minimum elong	9260 Feb 03 23:20	18°♁01'23	0°09'53	
	9259 Feb 23 06:12	30°♄		transit middle	9260 Feb 03 23:20	18°♁01'23	0°09'53	
morning rise	9259 Feb 25 11:07	28°♄05'53		transit begin	9260 Feb 03 21:03	18°♁08'20		
direct	9259 Feb 28 23:25	26°♄54'58		transit end	9260 Feb 04 01:36	17°♄54'28		
	9259 Mar 07 04:28	0°♄		morning rise	9260 Feb 09 20:36	12°♄15'46		
morning max el	9259 Mar 08 01:28	0°♄49'37	19°21'20	direct	9260 Feb 12 22:00	11°♄22'58		
greatest brilliancy	9259 Mar 20 22:16	17°♄47'17	-0.7m	morning max el	9260 Feb 19 12:17	14°♄56'18	18°33'22	
desc. node	9259 Mar 22 21:39	20°♄44'41			9260 Mar 01 17:43	0°♄		
	9259 Mar 28 23:32	0°♄		desc. node	9260 Mar 08 18:33	10°♄59'40		
morning set	9259 Apr 01 11:24	5°♄22'40		morning set	9260 Mar 11 05:40	14°♄52'58		
max. Earth dist.	9259 Apr 14 09:17	25°♄29'32	1.44943 AU		9260 Mar 20 20:15	0°♄		
	9259 Apr 17 05:37	0°♄						
superior conj	9259 Apr 18 00:28	1°♄14'59	-2°10'31	superior conj	9260 Mar 27 07:38	10°♄08'06	-1°51'11	
minimum elong	9259 Apr 17 21:12	1°♄01'55	2°10'34	minimum elong	9260 Mar 26 22:34	9°♄32'37	1°50'31	
evening rise	9259 May 02 06:30	24°♄27'44		max. Earth dist.	9260 Mar 27 03:19	9°♄51'11	1.45547 AU	
	9259 May 05 14:26	0°♄			9260 Apr 08 22:51	0°♄		
asc. node	9259 May 15 13:14	15°♄55'40		evening rise	9260 Apr 11 23:31	4°♄48'13		
evening max el	9259 May 21 07:15	23°♄10'55	18°18'42	greatest brilliancy	9260 Apr 20 15:39	18°♄33'35	-0.8m	
retrograde	9259 May 27 16:43	26°♄35'58			9260 Apr 28 06:10	0°♄		
evening set	9259 May 30 16:52	25°♄46'46		asc. node	9260 May 01 10:20	4°♄09'43		
inferior conj	9259 Jun 05 14:28	20°♄21'42	3°04'50	evening max el	9260 May 03 18:18	6°♄45'35	18°49'56	
minimum elong	9259 Jun 05 16:19	20°♄16'22	3°04'17	retrograde	9260 May 10 10:55	10°♄27'35		
min. Earth dist.	9259 Jun 08 00:28	17°♄35'59	0.64048 AU	evening set	9260 May 13 18:46	9°♄23'54		
morning rise	9259 Jun 11 14:34	14°♄06'22		inferior conj	9260 May 19 08:35	3°♄42'44	3°19'26	
direct	9259 Jun 18 07:19	11°♄26'12		minimum elong	9260 May 19 09:10	3°♄40'54	3°19'08	
desc. node	9259 Jun 18 21:28	11°♄27'21		min. Earth dist.	9260 May 21 03:27	1°♄29'00	0.65809 AU	
morning max el	9259 Jul 02 02:03	19°♄27'36	27°35'25		9260 May 22 09:24	30°♄		
	9259 Jul 11 01:08	0°♄		morning rise	9260 May 24 22:55	27°♄23'34		
	9259 Jul 30 05:01	0°♄		direct	9260 May 31 09:33	24°♄37'42		
morning set	9259 Aug 06 02:34	13°♄01'57		desc. node	9260 Jun 04 18:30	25°♄41'17		
max. Earth dist.	9259 Aug 10 23:03	22°♄55'06	1.32887 AU		9260 Jun 10 23:39	0°♄		
asc. node	9259 Aug 11 12:40	24°♄06'34		morning max el	9260 Jun 13 12:39	2°♄25'31	26°43'13	
					9260 Jul 04 06:18	0°♄		
superior conj	9259 Aug 14 02:42	29°♄36'16	0°25'44	morning set	9260 Jul 19 09:05	26°♄11'20		
minimum elong	9259 Aug 14 01:29	29°♄29'44	0°25'20		9260 Jul 21 08:41	0°♄		
	9259 Aug 14 07:08	0°♄		max. Earth dist.	9260 Jul 23 13:07	4°♄18'04	1.34275 AU	
evening rise	9259 Aug 21 03:25	14°♄45'36						
	9259 Aug 28 17:28	0°♄		superior conj	9260 Jul 28 02:34	13°♄35'36	-0°02'57	
evening max el	9259 Sep 12 08:21	20°♄55'31	22°48'07	minimum elong	9260 Jul 28 02:44	13°♄36'29	0°03'08	
desc. node	9259 Sep 14 20:06	23°♄08'29		behind sun begin	9260 Jul 27 21:03	13°♄06'58		
retrograde	9259 Sep 25 13:11	27°♄30'50		behind sun end	9260 Jul 28 08:25	14°♄06'02		
evening set	9259 Sep 29 05:37	27°♄01'04		asc. node	9260 Jul 28 09:37	14°♄12'19		
min. Earth dist.	9259 Oct 06 16:28	23°♄39'34	0.55130 AU	evening rise	9260 Aug 04 13:16	29°♄15'18		
inferior conj	9259 Oct 07 23:50	22°♄54'42	-5°30'02		9260 Aug 04 21:50	0°♄		
minimum elong	9259 Oct 07 18:59	23°♄01'38	5°29'25		9260 Aug 22 20:09	0°♄		
morning rise	9259 Oct 16 10:17	19°♄06'09		evening max el	9260 Aug 24 02:14	1°♄17'54	21°13'50	
direct	9259 Oct 19 13:11	18°♄43'38		desc. node	9260 Aug 31 17:17	6°♄27'45		
morning max el	9259 Oct 30 20:14	24°♄01'48	20°56'07	retrograde	9260 Sep 05 01:56	7°♄14'30		
	9259 Nov 05 01:37	0°♄		evening set	9260 Sep 07 11:57	7°♄00'56		
asc. node	9259 Nov 07 12:35	3°♄31'06		inferior conj	9260 Sep 16 16:35	3°♄04'30	-4°28'03	
morning set	9259 Nov 19 07:35	25°♄19'20		minimum elong	9260 Sep 16 06:56	3°♄18'04	4°25'33	
	9259 Nov 21 13:29	0°♄		min. Earth dist.	9260 Sep 17 00:52	2°♄52'50	0.54645 AU	
superior conj	9259 Nov 26 16:37	10°♄40'55	1°34'49		9260 Sep 22 17:24	30°♄		
minimum elong	9259 Nov 26 18:18	10°♄49'33	1°35'00	morning rise	9260 Sep 25 02:29	29°♄11'53		
max. Earth dist.	9259 Dec 01 12:39	20°♄24'06	1.35675 AU	direct	9260 Sep 28 21:35	28°♄40'48		
evening rise	9259 Dec 05 12:42	28°♄03'23			9260 Oct 04 19:14	0°♄		
	9259 Dec 06 13:53	0°♄		morning max el	9260 Oct 11 15:17	4°♄45'05	22°34'39	
desc. node	9259 Dec 11 18:46	9°♄15'12		asc. node	9260 Oct 24 09:34	21°♄53'13		
					9260 Oct 28 19:15	0°♄		
				morning set	9260 Nov 02 18:25	10°♄07'35		

superior conj	9260 Nov 09 19:19	25°♄10'50	1°40'22	superior conj	9261 Oct 25 03:10	9°♄53'28	1°39'24
minimum elong	9260 Nov 09 19:43	25°♄13'00	1°40'36	minimum elong	9261 Oct 25 02:25	9°♄49'21	1°39'33
	9260 Nov 12 02:08	0°♄		max. Earth dist.	9261 Oct 27 05:02	14°♄23'53	1.32720 AU
max. Earth dist.	9260 Nov 13 04:41	2°♄18'01	1.33983 AU	evening rise	9261 Nov 01 12:15	25°♄31'04	
evening rise	9260 Nov 17 18:56	11°♄32'48			9261 Nov 03 18:05	0°♄	
desc. node	9260 Nov 27 15:48	29°♄31'06		desc. node	9261 Nov 14 12:53	19°♄26'12	
	9260 Nov 27 22:40	0°♄			9261 Nov 21 09:31	0°♄	
	9260 Dec 19 07:55	0°♄		evening max el	9261 Dec 05 01:00	16°♄32'01	27°29'17
evening max el	9260 Dec 22 13:00	3°♄17'24	27°07'42	retrograde	9261 Dec 18 17:40	23°♄51'08	
retrograde	9261 Jan 04 22:12	10°♄38'50		evening set	9261 Dec 25 17:50	21°♄20'42	
evening set	9261 Jan 11 15:26	8°♄03'44		min. Earth dist.	9261 Dec 29 11:58	18°♄06'25	0.63544 AU
min. Earth dist.	9261 Jan 15 13:45	4°♄18'14	0.65251 AU	inferior conj	9262 Jan 01 03:36	15°♄25'45	-2°01'00
inferior conj	9261 Jan 17 18:16	1°♄51'09	-0°52'18	minimum elong	9262 Jan 01 07:27	15°♄15'59	1°59'08
minimum elong	9261 Jan 17 19:49	1°♄46'49	0°51'24	asc. node	9262 Jan 07 05:59	10°♄26'54	
	9261 Jan 19 10:53	30°♄		morning rise	9262 Jan 07 22:59	10°♄08'25	
asc. node	9261 Jan 20 08:53	29°♄04'09		direct	9262 Jan 10 08:23	9°♄40'36	
morning rise	9261 Jan 24 01:35	26°♄18'31		morning max el	9262 Jan 16 21:17	13°♄03'24	17°48'07
direct	9261 Jan 26 17:53	25°♄40'08			9262 Jan 28 13:57	0°♄	
morning max el	9261 Feb 02 03:51	29°♄03'22	18°02'05	morning set	9262 Feb 02 07:34	8°♄07'18	
	9261 Feb 03 01:43	0°♄		desc. node	9262 Feb 10 12:19	22°♄05'11	
morning set	9261 Feb 20 05:13	25°♄51'06					
	9261 Feb 22 17:55	0°♄		superior conj	9262 Feb 14 19:34	29°♄12'41	-0°31'21
desc. node	9261 Feb 23 15:26	1°♄27'56		minimum elong	9262 Feb 14 16:11	28°♄58'52	0°30'41
					9262 Feb 15 07:08	0°♄	
superior conj	9261 Mar 06 16:23	19°♄12'38	-1°14'57	max. Earth dist.	9262 Feb 20 17:36	8°♄46'06	1.44546 AU
minimum elong	9261 Mar 06 08:04	18°♄39'43	1°13'52	evening rise	9262 Mar 02 07:17	23°♄43'19	
max. Earth dist.	9261 Mar 09 22:54	24°♄21'56	1.45406 AU		9262 Mar 06 10:02	0°♄	
	9261 Mar 13 13:21	0°♄			9262 Mar 27 11:08	0°♄	
evening rise	9261 Mar 22 19:58	14°♄22'52		evening max el	9262 Mar 31 02:21	4°♄05'35	20°40'12
	9261 Apr 02 00:28	0°♄		asc. node	9262 Apr 05 04:36	8°♄04'46	
greatest brilliancy	9261 Apr 05 08:04	4°♄58'37	-0.7m	retrograde	9262 Apr 08 07:07	8°♄52'59	
evening max el	9261 Apr 17 01:04	20°♄24'59	19°37'52	evening set	9262 Apr 12 08:44	7°♄18'34	
asc. node	9261 Apr 18 07:28	21°♄37'29		inferior conj	9262 Apr 17 15:56	1°♄09'57	3°06'57
retrograde	9261 Apr 24 08:32	24°♄35'14		minimum elong	9262 Apr 17 14:25	1°♄15'09	3°06'36
evening set	9261 Apr 28 00:46	23°♄16'20		min. Earth dist.	9262 Apr 18 05:54	0°♄21'53	0.68032 AU
inferior conj	9261 May 03 09:58	17°♄20'35	3°19'14		9262 Apr 18 12:17	30°♄	
minimum elong	9261 May 03 09:22	17°♄22'34	3°19'00	morning rise	9262 Apr 22 19:53	24°♄53'55	
min. Earth dist.	9261 May 04 13:54	15°♄47'54	0.67146 AU	direct	9262 Apr 28 07:32	22°♄27'51	
morning rise	9261 May 08 17:37	11°♄01'49		morning max el	9262 May 09 07:44	29°♄02'36	24°01'40
direct	9261 May 14 18:02	8°♄21'28		desc. node	9262 May 09 12:26	29°♄14'34	
desc. node	9261 May 22 15:30	11°♄46'57			9262 May 10 05:57	0°♄	
morning max el	9261 May 26 22:33	15°♄39'49	25°28'41		9262 Jun 01 12:20	0°♄	
	9261 Jun 07 17:45	0°♄		morning set	9262 Jun 13 20:13	20°♄03'42	
	9261 Jun 27 03:32	0°♄		max. Earth dist.	9262 Jun 17 13:56	26°♄36'22	1.38297 AU
morning set	9261 Jul 02 00:42	8°♄36'43			9262 Jun 19 11:16	0°♄	
max. Earth dist.	9261 Jul 05 16:42	15°♄23'12	1.36124 AU				
				superior conj	9262 Jun 24 20:21	9°♄59'38	-1°06'54
superior conj	9261 Jul 11 17:38	27°♄06'40	-0°34'25	minimum elong	9262 Jun 25 00:39	10°♄20'02	1°06'31
minimum elong	9261 Jul 11 19:45	27°♄17'09	0°34'17	asc. node	9262 Jul 02 03:33	24°♄11'26	
	9261 Jul 13 04:12	0°♄		evening rise	9262 Jul 03 18:57	27°♄25'23	
asc. node	9261 Jul 15 06:35	4°♄15'27			9262 Jul 05 02:30	0°♄	
evening rise	9261 Jul 19 19:21	13°♄31'14		evening max el	9262 Jul 20 04:34	24°♄05'54	18°58'41
	9261 Jul 28 10:00	0°♄		retrograde	9262 Jul 28 20:58	28°♄24'37	
evening max el	9261 Aug 06 08:59	12°♄19'22	19°55'56	evening set	9262 Jul 30 19:02	28°♄12'48	
retrograde	9261 Aug 16 16:18	17°♄25'13		desc. node	9262 Aug 05 11:35	25°♄41'45	
evening set	9261 Aug 18 13:32	17°♄15'45		inferior conj	9262 Aug 08 02:01	23°♄56'49	-0°48'02
desc. node	9261 Aug 18 14:26	17°♄15'22		minimum elong	9262 Aug 07 23:58	24°♄00'23	0°47'25
inferior conj	9261 Aug 27 13:07	13°♄15'31	-2°43'06	min. Earth dist.	9262 Aug 11 01:26	21°♄52'41	0.56472 AU
minimum elong	9261 Aug 27 05:45	13°♄26'40	2°40'33	morning rise	9262 Aug 16 01:45	19°♄03'58	
min. Earth dist.	9261 Aug 29 11:17	12°♄05'36	0.55125 AU	direct	9262 Aug 21 11:12	17°♄55'16	
morning rise	9261 Sep 04 20:23	8°♄59'02		morning max el	9262 Sep 04 16:46	25°♄14'18	25°59'41
direct	9261 Sep 09 10:16	8°♄13'13			9262 Sep 09 03:24	0°♄	
morning max el	9261 Sep 23 03:34	14°♄59'10	24°21'15	asc. node	9262 Sep 28 03:26	0°♄14'03	
	9261 Oct 04 23:58	0°♄			9262 Sep 28 00:36	0°♄	
asc. node	9261 Oct 11 06:32	10°♄50'39		morning set	9262 Oct 02 17:16	9°♄40'03	
morning set	9261 Oct 18 06:12	24°♄56'06					
	9261 Oct 20 14:36	0°♄		superior conj	9262 Oct 09 13:57	24°♄42'04	1°32'31

minimum elong	9262 Oct 09 12:19	24°♄33'00	1°32'29	morning set	9263 Sep 17 01:57	24°♄14'39	
max. Earth dist.	9262 Oct 10 11:44	26°♄42'29	1.31912 AU		9263 Sep 19 18:19	0°♄	
	9262 Oct 11 23:38	0°♄					
evening rise	9262 Oct 16 13:35	9°♄49'51		superior conj	9263 Sep 24 01:44	9°♄30'37	1°20'11
	9262 Oct 27 01:20	0°♄		minimum elong	9263 Sep 23 23:35	9°♄18'40	1°19'55
desc. node	9262 Nov 01 09:59	8°♄52'01		max. Earth dist.	9263 Sep 23 21:26	9°♄06'42	1.31571 AU
evening max el	9262 Nov 17 09:14	29°♄11'21	27°19'38	evening rise	9263 Sep 30 20:23	24°♄22'06	
	9262 Nov 18 06:19	0°♄			9263 Oct 03 13:04	0°♄	
retrograde	9262 Dec 01 05:37	6°♄24'44		desc. node	9263 Oct 19 07:06	27°♄36'25	
evening set	9262 Dec 08 06:54	4°♄08'01			9263 Oct 20 23:51	0°♄	
min. Earth dist.	9262 Dec 11 23:40	1°♄19'03	0.61576 AU	evening max el	9263 Oct 30 10:54	11°♄03'15	26°35'55
	9262 Dec 13 11:26	30°♄		retrograde	9263 Nov 13 09:00	18°♄10'35	
inferior conj	9262 Dec 15 00:27	28°♄36'25	-3°13'14	evening set	9263 Nov 20 02:22	16°♄18'01	
minimum elong	9262 Dec 15 06:42	28°♄22'25	3°10'43	min. Earth dist.	9263 Nov 24 00:38	13°♄42'33	0.59475 AU
morning rise	9262 Dec 22 08:50	23°♄37'52		inferior conj	9263 Nov 27 05:16	11°♄13'01	-4°22'45
direct	9262 Dec 24 13:58	23°♄17'01		minimum elong	9263 Nov 27 12:53	10°♄58'08	4°20'25
asc. node	9262 Dec 25 03:03	23°♄18'19		morning rise	9263 Dec 05 01:54	6°♄36'13	
morning max el	9262 Dec 31 13:29	26°♄48'32	17°52'16	direct	9263 Dec 07 06:20	6°♄19'04	
	9263 Jan 03 08:32	0°♄		asc. node	9263 Dec 12 00:05	7°♄44'31	
morning set	9263 Jan 16 06:16	21°♄21'31		morning max el	9263 Dec 15 00:52	10°♄08'31	18°15'46
	9263 Jan 21 01:23	0°♄			9263 Dec 28 00:27	0°♄	
				morning set	9263 Dec 30 19:19	5°♄14'50	
superior conj	9263 Jan 27 00:09	10°♄26'23	0°10'19				
minimum elong	9263 Jan 27 01:05	10°♄30'25	0°10'24	superior conj	9264 Jan 09 04:13	22°♄46'20	0°44'56
behind sun begin	9263 Jan 26 18:36	10°♄02'29		minimum elong	9264 Jan 09 07:13	22°♄59'52	0°44'46
behind sun end	9263 Jan 27 07:34	10°♄58'17			9264 Jan 13 05:22	0°♄	
desc. node	9263 Jan 28 09:13	12°♄47'57		desc. node	9264 Jan 15 06:09	3°♄31'59	
max. Earth dist.	9263 Feb 03 08:51	22°♄47'10	1.43057 AU	max. Earth dist.	9264 Jan 16 18:47	6°♄08'43	1.41113 AU
	9263 Feb 07 20:19	0°♄		evening rise	9264 Jan 21 12:06	14°♄00'27	
evening rise	9263 Feb 10 00:54	3°♄27'31			9264 Jan 31 17:03	0°♄	
	9263 Feb 27 20:00	0°♄			9264 Feb 23 02:40	0°♄	
evening max el	9263 Mar 13 22:14	17°♄47'35	21°53'27	evening max el	9264 Feb 24 13:55	1°♄31'24	23°12'55
retrograde	9263 Mar 23 04:53	23°♄16'59		retrograde	9264 Mar 06 00:16	7°♄41'48	
asc. node	9263 Mar 23 01:44	23°♄16'54		asc. node	9264 Mar 08 22:52	6°♄59'28	
evening set	9263 Mar 27 16:55	21°♄27'15		evening set	9264 Mar 10 23:44	5°♄37'32	
inferior conj	9263 Apr 02 00:18	15°♄08'10	2°44'18		9264 Mar 15 19:00	30°♄	
minimum elong	9263 Apr 01 22:14	15°♄15'23	2°43'47	inferior conj	9264 Mar 16 09:07	29°♄11'17	2°12'19
min. Earth dist.	9263 Apr 02 01:23	15°♄04'23	0.68469 AU	minimum elong	9264 Mar 16 06:54	29°♄18'57	2°11'40
morning rise	9263 Apr 07 03:24	8°♄56'16		min. Earth dist.	9264 Mar 15 22:10	29°♄49'04	0.68472 AU
direct	9263 Apr 12 01:14	6°♄49'52		morning rise	9264 Mar 21 14:00	23°♄04'45	
morning max el	9263 Apr 21 18:34	12°♄33'37	22°32'02	direct	9264 Mar 25 22:07	21°♄20'18	
desc. node	9263 Apr 26 09:21	17°♄42'08		morning max el	9264 Apr 03 10:17	26°♄14'22	21°08'11
	9263 May 05 16:48	0°♄			9264 Apr 06 20:36	0°♄	
	9263 May 25 09:37	0°♄		desc. node	9264 Apr 12 06:14	6°♄52'43	
morning set	9263 May 25 14:34	0°♄20'12			9264 Apr 28 04:18	0°♄	
max. Earth dist.	9263 May 30 11:36	8°♄27'26	1.40560 AU	morning set	9264 May 04 06:08	9°♄24'05	
				max. Earth dist.	9264 May 11 14:32	21°♄09'58	1.42635 AU
					9264 May 16 22:17	0°♄	
superior conj	9263 Jun 07 06:31	22°♄04'44	-1°37'23				
minimum elong	9263 Jun 07 12:26	22°♄31'27	1°36'58				
	9263 Jun 11 14:24	0°♄		superior conj	9264 May 18 19:30	3°♄11'44	-2°01'15
evening rise	9263 Jun 17 08:49	10°♄49'23		minimum elong	9264 May 19 00:54	3°♄34'49	2°01'09
asc. node	9263 Jun 19 00:32	13°♄56'09		evening rise	9264 May 30 08:50	23°♄32'53	
	9263 Jun 28 05:39	0°♄			9264 Jun 02 23:12	0°♄	
evening max el	9263 Jul 03 09:54	6°♄32'19	18°22'22	asc. node	9264 Jun 04 21:33	3°♄24'39	
retrograde	9263 Jul 10 20:46	10°♄16'33		evening max el	9264 Jun 15 21:09	19°♄29'19	18°06'06
evening set	9263 Jul 13 01:16	9°♄58'04		retrograde	9264 Jun 22 13:49	22°♄54'17	
inferior conj	9263 Jul 20 12:35	5°♄22'06	0°50'22	evening set	9264 Jun 25 02:02	22°♄25'38	
minimum elong	9263 Jul 20 14:17	5°♄18'36	0°49'30	inferior conj	9264 Jul 01 19:41	17°♄29'41	2°02'09
desc. node	9263 Jul 23 08:41	3°♄02'39		minimum elong	9264 Jul 01 22:36	17°♄22'44	2°01'01
min. Earth dist.	9263 Jul 23 21:30	2°♄37'26	0.58428 AU	min. Earth dist.	9264 Jul 05 01:17	14°♄26'37	0.60664 AU
morning rise	9263 Jul 27 23:52	29°♄53'30		morning rise	9264 Jul 08 16:29	11°♄35'03	
	9263 Jul 27 19:01	30°♄		desc. node	9264 Jul 09 05:45	11°♄14'28	
direct	9263 Aug 03 02:32	28°♄15'02		direct	9264 Jul 15 06:35	9°♄26'20	
	9263 Aug 09 15:14	0°♄		morning max el	9264 Jul 29 13:50	17°♄24'29	27°51'40
morning max el	9263 Aug 17 11:54	5°♄58'18	27°13'22		9264 Aug 09 00:57	0°♄	
	9263 Sep 04 08:06	0°♄			9264 Aug 27 00:10	0°♄	
asc. node	9263 Sep 15 00:19	19°♄56'14		morning set	9264 Aug 31 06:29	8°♄34'44	

asc. node	9264 Aug 31 21:13	9°♎51'25			9265 Aug 18 19:16	0°♎	
max. Earth dist.	9264 Sep 06 06:23	21°♎26'19	1.31700 AU	max. Earth dist.	9265 Aug 20 10:46	3°♎29'45	1.32315 AU
superior conj	9264 Sep 07 12:45	24°♎13'42	1°02'45	superior conj	9265 Aug 22 21:06	8°♎44'33	0°40'32
minimum elong	9264 Sep 07 10:33	24°♎01'30	1°02'20	minimum elong	9265 Aug 22 19:21	8°♎35'03	0°40'05
	9264 Sep 10 03:21	0°♏		evening rise	9265 Aug 29 18:04	23°♎42'08	
evening rise	9264 Sep 14 06:32	9°♏01'46			9265 Sep 01 18:00	0°♏	
	9264 Sep 24 23:14	0°♎			9265 Sep 20 07:54	0°♎	
desc. node	9264 Oct 05 04:14	15°♎23'20		desc. node	9265 Sep 22 01:24	1°♎49'38	
evening max el	9264 Oct 11 04:36	22°♎04'47	25°21'05	evening max el	9265 Sep 22 16:21	2°♎26'27	23°45'45
retrograde	9264 Oct 25 02:08	29°♎05'14		retrograde	9265 Oct 06 06:35	9°♎14'04	
evening set	9264 Oct 30 23:30	27°♎45'40		evening set	9265 Oct 10 20:03	8°♎28'39	
min. Earth dist.	9264 Nov 04 16:41	25°♎06'27	0.57456 AU	min. Earth dist.	9265 Oct 17 02:42	5°♎27'23	0.55803 AU
inferior conj	9264 Nov 07 14:58	23°♎07'10	-5°17'42	inferior conj	9265 Oct 19 04:22	4°♎12'56	-5°39'52
minimum elong	9264 Nov 07 20:55	22°♎57'02	5°16'35	minimum elong	9265 Oct 19 04:08	4°♎13'17	5°39'42
morning rise	9264 Nov 15 20:39	18°♎52'52		morning rise	9265 Oct 27 14:13	0°♎17'42	
direct	9264 Nov 18 05:25	18°♎36'10			9265 Oct 29 12:32	30°♎	
morning max el	9264 Nov 27 03:43	22°♎53'14	19°00'20	direct	9265 Oct 30 09:20	29°♏58'04	
asc. node	9264 Nov 27 21:05	23°♎36'32			9265 Oct 31 05:57	0°♎	
	9264 Dec 02 21:28	0°♏		morning max el	9265 Nov 09 18:31	4°♎51'50	20°07'28
morning set	9264 Dec 13 18:14	19°♏34'42		asc. node	9265 Nov 14 18:04	10°♎38'29	
	9264 Dec 19 00:56	0°♏			9265 Nov 25 21:58	0°♏	
				morning set	9265 Nov 27 23:42	4°♏11'15	
superior conj	9264 Dec 22 03:00	5°♏58'57	1°10'55	superior conj	9265 Dec 05 15:38	19°♏50'18	1°28'22
minimum elong	9264 Dec 22 06:12	6°♏14'13	1°10'49	minimum elong	9265 Dec 05 18:01	20°♏02'11	1°28'27
max. Earth dist.	9264 Dec 29 00:50	18°♏47'11	1.38951 AU		9265 Dec 10 20:07	0°♏	
desc. node	9265 Jan 01 03:07	24°♏13'55		max. Earth dist.	9265 Dec 11 07:28	0°♏53'56	1.36812 AU
evening rise	9265 Jan 01 21:07	25°♏31'25		evening rise	9265 Dec 15 02:30	7°♏55'40	
	9265 Jan 04 12:34	0°♏		desc. node	9265 Dec 19 00:07	14°♏49'37	
	9265 Jan 24 09:01	0°♏			9265 Dec 28 07:17	0°♏	
evening max el	9265 Feb 06 03:36	15°♏18'48	24°32'28	evening max el	9266 Jan 19 16:58	29°♏07'52	25°45'06
retrograde	9265 Feb 17 15:59	22°♏02'45			9266 Jan 20 14:48	0°♏	
evening set	9265 Feb 23 03:40	19°♏45'29		retrograde	9266 Feb 01 03:00	6°♏14'30	
asc. node	9265 Feb 23 20:00	19°♏08'39		evening set	9266 Feb 07 03:09	3°♏46'41	
min. Earth dist.	9265 Feb 27 18:01	14°♏31'37	0.68064 AU	asc. node	9266 Feb 10 17:09	0°♏01'32	
inferior conj	9265 Feb 28 16:33	13°♏16'19	1°31'28		9266 Feb 10 17:40	30°♏	
minimum elong	9265 Feb 28 14:39	13°♏22'40	1°30'53	min. Earth dist.	9266 Feb 11 10:37	29°♏07'38	0.67263 AU
morning rise	9265 Mar 06 01:46	7°♏16'37		inferior conj	9266 Feb 12 20:44	27°♏19'36	0°42'03
direct	9265 Mar 09 20:59	5°♏53'53		minimum elong	9266 Feb 12 19:41	27°♏22'53	0°41'48
morning max el	9265 Mar 17 09:21	10°♏06'49	19°56'04	morning rise	9266 Feb 18 12:44	21°♏28'41	
desc. node	9265 Mar 30 03:08	26°♏34'47		direct	9266 Feb 21 20:17	20°♏25'42	
	9265 Apr 01 11:04	0°♏		morning max el	9266 Feb 28 16:16	24°♏09'41	18°58'55
morning set	9265 Apr 13 04:55	17°♏46'39			9266 Mar 05 15:28	0°♏	
	9265 Apr 21 01:16	0°♏		greatest brilliancy	9266 Mar 14 13:47	12°♏56'54	-0.8m
max. Earth dist.	9265 Apr 24 00:44	4°♏43'01	1.44275 AU	desc. node	9266 Mar 17 00:01	16°♏39'52	
superior conj	9265 Apr 29 08:07	13°♏15'18	-2°12'21	morning set	9266 Mar 23 10:04	26°♏35'59	
minimum elong	9265 Apr 29 09:01	13°♏18'55	2°12'32		9266 Mar 25 14:34	0°♏	
	9265 May 09 09:55	0°♏		max. Earth dist.	9266 Apr 06 17:15	18°♏54'17	1.45290 AU
evening rise	9265 May 12 14:16	5°♏25'08		superior conj	9266 Apr 08 22:50	22°♏25'00	-2°04'48
asc. node	9265 May 22 18:37	22°♏30'37		minimum elong	9266 Apr 08 16:31	22°♏00'10	2°04'35
	9265 May 27 23:25	0°♏			9266 Apr 13 17:46	0°♏	
evening max el	9265 May 30 10:42	2°♏47'12	18°08'51	evening rise	9266 Apr 23 21:00	16°♏19'26	
retrograde	9265 Jun 05 19:51	6°♏07'54			9266 May 02 07:08	0°♏	
evening set	9265 Jun 08 15:46	5°♏26'34		asc. node	9266 May 09 15:43	11°♏06'45	
inferior conj	9265 Jun 14 19:33	0°♏11'48	2°48'14	evening max el	9266 May 13 23:28	16°♏18'12	18°29'52
minimum elong	9265 Jun 14 22:01	0°♏05'07	2°47'26	retrograde	9266 May 20 10:46	19°♏48'35	
	9265 Jun 14 23:55	30°♏		evening set	9266 May 23 14:14	18°♏53'10	
min. Earth dist.	9265 Jun 17 13:52	27°♏14'03	0.62882 AU	inferior conj	9266 May 29 08:05	13°♏21'02	3°13'00
morning rise	9265 Jun 21 02:36	24°♏01'49		minimum elong	9266 May 29 09:25	13°♏17'04	3°12'35
desc. node	9265 Jun 26 02:50	21°♏39'40		min. Earth dist.	9266 May 31 11:40	10°♏47'42	0.64849 AU
direct	9265 Jun 27 20:32	21°♏29'56		morning rise	9266 Jun 04 03:43	7°♏03'42	
morning max el	9265 Jul 11 21:02	29°♏32'45	27°51'38	direct	9266 Jun 10 18:34	4°♏19'50	
	9265 Jul 12 07:47	0°♏		desc. node	9266 Jun 12 23:53	4°♏36'10	
	9265 Aug 03 00:19	0°♏		morning max el	9266 Jun 24 07:10	12°♏16'17	27°16'34
morning set	9265 Aug 15 04:40	22°♏33'14			9266 Jul 08 10:52	0°♏	
asc. node	9265 Aug 18 18:07	29°♏53'58					

	9266 Jul 26 13:42	0°♎		morning rise	9267 May 18 16:47	20°♎30'30	
morning set	9266 Jul 29 17:52	6°♎03'10		direct	9267 May 24 23:20	17°♎46'06	
max. Earth dist.	9266 Aug 03 07:03	15°♎09'13	1.33427 AU	desc. node	9267 May 30 20:53	19°♎41'23	
asc. node	9266 Aug 05 15:04	19°♎59'53		morning max el	9267 Jun 06 17:46	25°♎23'00	26°13'46
					9267 Jun 10 22:42	0°♐	
superior conj	9266 Aug 07 00:45	22°♎57'27	0°14'02		9267 Jul 01 22:57	0°♑	
minimum elong	9266 Aug 07 00:03	22°♎53'44	0°13'42	morning set	9267 Jul 12 18:36	18°♑55'24	
behind sun begin	9266 Aug 06 21:09	22°♎38'21		max. Earth dist.	9267 Jul 16 16:51	26°♑24'16	1.35015 AU
behind sun end	9266 Aug 07 02:57	23°♎09'07			9267 Jul 18 12:45	0°♒	
	9266 Aug 10 07:55	0°♑					
evening rise	9266 Aug 14 05:08	8°♑17'48		superior conj	9267 Jul 21 21:14	6°♒45'41	-0°16'01
	9266 Aug 25 13:56	0°♒		minimum elong	9267 Jul 21 22:10	6°♒50'27	0°16'05
evening max el	9266 Sep 04 05:18	12°♒37'47	22°06'25	behind sun begin	9267 Jul 21 21:58	6°♒49'24	
desc. node	9266 Sep 08 22:34	16°♒26'26		behind sun end	9267 Jul 21 22:23	6°♒51'31	
retrograde	9266 Sep 16 23:11	18°♒58'21		asc. node	9267 Jul 23 12:02	10°♒05'07	
evening set	9266 Sep 20 01:17	18°♒37'09		evening rise	9267 Jul 29 13:41	22°♒42'48	
min. Earth dist.	9266 Sep 28 10:23	14°♒57'50	0.54820 AU		9267 Aug 02 03:43	0°♑	
inferior conj	9266 Sep 29 01:34	14°♒36'33	-5°10'25	evening max el	9267 Aug 17 04:08	23°♑14'22	20°38'13
minimum elong	9266 Sep 28 17:52	14°♒47'21	5°09'02	desc. node	9267 Aug 26 19:42	28°♑43'34	
morning rise	9266 Oct 07 11:59	10°♒49'03		retrograde	9267 Aug 28 11:24	28°♑50'34	
direct	9266 Oct 10 21:46	10°♒23'19		evening set	9267 Aug 30 13:47	28°♑39'46	
morning max el	9266 Oct 22 20:01	16°♒00'25	21°36'13	inferior conj	9267 Sep 08 18:06	24°♑43'01	-3°47'00
asc. node	9266 Nov 01 15:03	28°♒35'14		minimum elong	9267 Sep 08 08:40	24°♑56'34	3°44'07
	9266 Nov 02 11:41	0°♓		min. Earth dist.	9267 Sep 09 19:16	24°♑06'49	0.54731 AU
morning set	9266 Nov 12 09:09	18°♓57'13		morning rise	9267 Sep 17 03:20	20°♑42'41	
	9266 Nov 17 14:43	0°♊		direct	9267 Sep 21 05:56	20°♑06'31	
				morning max el	9267 Oct 04 11:25	26°♑29'00	23°19'59
superior conj	9266 Nov 19 14:08	4°♊09'00	1°38'02		9267 Oct 07 20:28	0°♒	
minimum elong	9266 Nov 19 15:16	4°♊14'58	1°38'14	asc. node	9267 Oct 19 12:00	17°♒13'57	
max. Earth dist.	9266 Nov 23 19:21	12°♊47'55	1.34911 AU		9267 Oct 26 01:22	0°♓	
evening rise	9266 Nov 28 00:45	21°♊03'59		morning set	9267 Oct 27 20:38	3°♓47'03	
	9266 Dec 02 21:05	0°♋					
desc. node	9266 Dec 05 21:09	5°♋14'25		superior conj	9267 Nov 03 19:21	18°♓46'04	1°40'44
	9266 Dec 22 04:40	0°♌		minimum elong	9267 Nov 03 19:15	18°♓45'28	1°40'56
evening max el	9267 Jan 02 06:21	12°♌51'18	26°43'26	max. Earth dist.	9267 Nov 06 15:03	24°♓46'56	1.33387 AU
retrograde	9267 Jan 15 08:28	20°♌09'54			9267 Nov 09 03:15	0°♊	
evening set	9267 Jan 21 20:16	17°♌35'36		evening rise	9267 Nov 11 12:07	4°♊47'12	
min. Earth dist.	9267 Jan 25 21:39	13°♌31'09	0.66088 AU	desc. node	9267 Nov 22 18:12	25°♊22'53	
inferior conj	9267 Jan 27 19:31	11°♌16'10	-0°15'38		9267 Nov 25 14:03	0°♋	
minimum elong	9267 Jan 27 19:57	11°♌14'55	0°15'13	evening max el	9267 Dec 15 19:09	26°♋19'48	27°20'17
transit middle	9267 Jan 27 19:57	11°♌14'55	0°15'13		9267 Dec 20 02:59	0°♌	
transit begin	9267 Jan 27 19:01	11°♌17'39		retrograde	9267 Dec 29 07:59	3°♌41'21	
transit end	9267 Jan 27 20:52	11°♌12'10		evening set	9268 Jan 05 04:51	1°♌06'51	
asc. node	9267 Jan 28 14:18	10°♌21'11			9268 Jan 06 13:33	30°♌♊	
morning rise	9267 Feb 02 20:39	5°♌36'19		min. Earth dist.	9268 Jan 09 01:01	27°♋35'27	0.64563 AU
direct	9267 Feb 05 18:02	4°♌50'00		inferior conj	9268 Jan 11 10:33	25°♋01'04	-1°20'45
morning max el	9267 Feb 12 05:25	8°♌17'21	18°18'03	minimum elong	9268 Jan 11 13:01	24°♋54'24	1°19'26
	9267 Feb 27 11:48	0°♍		asc. node	9268 Jan 15 11:24	21°♋06'43	
morning set	9267 Mar 03 16:28	6°♍43'21		morning rise	9268 Jan 17 22:51	19°♋34'53	
desc. node	9267 Mar 03 20:53	7°♍01'04		direct	9268 Jan 20 11:55	19°♋01'31	
	9267 Mar 18 08:45	0°♎		morning max el	9268 Jan 26 22:14	22°♋23'16	17°54'03
					9268 Feb 01 22:15	0°♌	
superior conj	9267 Mar 19 04:08	1°♎15'55	-1°37'24	morning set	9268 Feb 13 04:05	18°♌17'01	
minimum elong	9267 Mar 18 18:32	0°♎38'19	1°36'26	desc. node	9268 Feb 18 17:47	27°♌33'55	
max. Earth dist.	9267 Mar 20 12:49	3°♎23'54	1.45577 AU		9268 Feb 20 05:14	0°♍	
evening rise	9267 Apr 04 04:25	26°♎18'01					
	9267 Apr 06 13:08	0°♏		superior conj	9268 Feb 26 19:12	10°♍40'34	-0°56'44
greatest brilliancy	9267 Apr 15 01:30	13°♏14'20	-0.8m	minimum elong	9268 Feb 26 12:49	10°♍14'57	0°55'46
asc. node	9267 Apr 26 12:51	29°♏02'44		max. Earth dist.	9268 Mar 02 08:16	17°♍53'44	1.45122 AU
	9267 Apr 27 10:47	0°♐			9268 Mar 10 02:26	0°♎	
evening max el	9267 Apr 27 08:52	29°♏55'10	19°08'20	evening rise	9268 Mar 13 19:12	5°♎41'55	
retrograde	9267 May 04 06:50	3°♐47'59		greatest brilliancy	9268 Mar 28 15:54	28°♎06'23	-0.6m
evening set	9267 May 07 18:12	2°♐37'42			9268 Mar 29 23:16	0°♏	
	9267 May 10 15:29	30°♏♎		evening max el	9268 Apr 09 13:15	13°♏34'39	20°02'43
inferior conj	9267 May 13 05:39	26°♏49'52	3°20'56	asc. node	9268 Apr 12 09:59	16°♏06'28	
minimum elong	9267 May 13 05:43	26°♏49'41	3°20'42	retrograde	9268 Apr 17 05:14	18°♏00'17	
min. Earth dist.	9267 May 14 17:58	24°♏53'11	0.66431 AU	evening set	9268 Apr 21 01:15	16°♏34'52	

inferior conj	9268 Apr 26 09:17	10°♄33'10	3°15'22	retrograde	9269 Apr 01 03:40	2°♄20'53	
minimum elong	9268 Apr 26 08:15	10°♄36'38	3°15'06	evening set	9269 Apr 05 09:28	0°♄40'08	
min. Earth dist.	9268 Apr 27 07:08	9°♄19'16	0.67575 AU		9269 Apr 06 03:56	30°♄	
morning rise	9268 May 01 14:59	4°♄15'05		inferior conj	9269 Apr 10 16:31	24°♄26'48	2°58'34
direct	9268 May 07 10:03	1°♄40'02		minimum elong	9269 Apr 10 14:43	24°♄33'02	2°58'08
desc. node	9268 May 16 17:52	6°♄24'51		min. Earth dist.	9269 Apr 11 00:58	23°♄57'28	0.68269 AU
morning max el	9268 May 19 03:24	8°♄42'03	24°52'36	morning rise	9269 Apr 15 19:45	18°♄12'09	
	9268 Jun 04 20:57	0°♄		direct	9269 Apr 21 01:35	15°♄53'44	
	9268 Jun 23 13:15	0°♄		morning max el	9269 May 01 12:48	22°♄07'47	23°23'16
morning set	9268 Jun 24 02:21	0°♄57'55		desc. node	9269 May 03 14:48	24°♄20'14	
max. Earth dist.	9268 Jun 27 16:56	7°♄28'37	1.37014 AU		9269 May 08 09:02	0°♄	
					9269 May 29 04:11	0°♄	
superior conj	9268 Jul 04 07:30	20°♄01'25	-0°48'13	morning set	9269 Jun 05 11:45	11°♄56'36	
minimum elong	9268 Jul 04 10:32	20°♄16'14	0°47'58	max. Earth dist.	9269 Jun 09 12:56	18°♄52'32	1.39257 AU
asc. node	9268 Jul 09 08:59	0°♄05'39			9269 Jun 15 18:04	0°♄	
	9268 Jul 09 07:52	0°♄					
evening rise	9268 Jul 12 17:21	6°♄50'20		superior conj	9269 Jun 17 03:45	2°♄35'40	-1°20'19
	9268 Jul 25 19:05	0°♄		minimum elong	9269 Jun 17 08:53	2°♄59'29	1°19'52
evening max el	9268 Jul 29 16:34	4°♄35'12	19°29'01	asc. node	9269 Jun 26 05:58	19°♄57'35	
retrograde	9268 Aug 08 06:52	9°♄20'09		evening rise	9269 Jun 26 13:15	20°♄32'49	
evening set	9268 Aug 10 03:02	9°♄10'26			9269 Jul 01 12:39	0°♄	
desc. node	9268 Aug 12 16:51	8°♄26'43		evening max el	9269 Jul 12 16:54	16°♄40'41	18°40'50
inferior conj	9268 Aug 18 20:29	5°♄04'42	-1°53'39	retrograde	9269 Jul 20 19:17	20°♄42'31	
minimum elong	9268 Aug 18 15:21	5°♄12'55	1°51'49	evening set	9269 Jul 22 19:48	20°♄28'20	
min. Earth dist.	9268 Aug 21 07:22	3°♄30'29	0.55596 AU	inferior conj	9269 Jul 30 18:27	16°♄04'27	-0°03'24
morning rise	9268 Aug 27 01:09	0°♄33'03		minimum elong	9269 Jul 30 18:19	16°♄04'43	0°03'33
	9268 Aug 28 21:40	30°♄		transit middle	9269 Jul 30 18:19	16°♄04'43	0°03'33
direct	9268 Aug 31 23:12	29°♄38'33		transit begin	9269 Jul 30 14:45	16°♄11'23	
	9268 Sep 04 00:31	0°♄		transit end	9269 Jul 30 21:52	15°♄58'03	
morning max el	9268 Sep 14 23:26	6°♄40'40	25°05'11	desc. node	9269 Jul 30 13:59	16°♄12'47	
	9268 Oct 01 22:08	0°♄		min. Earth dist.	9269 Aug 02 23:57	13°♄40'38	0.57247 AU
asc. node	9268 Oct 05 08:54	6°♄23'25		morning rise	9269 Aug 07 13:21	10°♄55'45	
morning set	9268 Oct 11 08:17	18°♄34'23		direct	9269 Aug 13 06:56	9°♄34'35	
	9268 Oct 16 14:06	0°♄		morning max el	9269 Aug 27 14:38	17°♄05'18	26°34'43
					9269 Sep 07 06:16	0°♄	
superior conj	9268 Oct 18 04:43	3°♄32'29	1°37'11	asc. node	9269 Sep 22 05:48	25°♄55'41	
minimum elong	9268 Oct 18 03:33	3°♄26'04	1°37'15		9269 Sep 24 05:30	0°♄	
max. Earth dist.	9268 Oct 19 18:14	6°♄57'54	1.32313 AU	morning set	9269 Sep 25 18:33	3°♄14'56	
evening rise	9268 Oct 25 09:10	18°♄55'21					
	9268 Oct 30 23:52	0°♄		superior conj	9269 Oct 02 16:10	18°♄22'02	1°27'56
desc. node	9268 Nov 08 15:16	15°♄06'51		minimum elong	9269 Oct 02 14:15	18°♄11'27	1°27'48
	9268 Nov 18 21:46	0°♄		max. Earth dist.	9269 Oct 03 02:31	19°♄19'34	1.31712 AU
evening max el	9268 Nov 27 05:40	9°♄20'37	27°29'13		9269 Oct 07 23:22	0°♄	
retrograde	9268 Dec 11 00:37	16°♄38'26		evening rise	9269 Oct 09 13:08	3°♄21'02	
evening set	9268 Dec 18 02:02	14°♄12'27			9269 Oct 23 18:56	0°♄	
min. Earth dist.	9268 Dec 21 18:57	11°♄09'56	0.62731 AU	desc. node	9269 Oct 26 12:22	4°♄16'35	
inferior conj	9268 Dec 24 14:56	8°♄26'29	-2°31'28	evening max el	9269 Nov 09 11:35	21°♄41'27	27°05'13
minimum elong	9268 Dec 24 19:50	8°♄14'40	2°29'16	retrograde	9269 Nov 23 09:11	28°♄52'00	
morning rise	9268 Dec 31 15:51	3°♄16'52		evening set	9269 Nov 30 08:10	26°♄44'43	
asc. node	9269 Jan 01 08:28	3°♄04'32		min. Earth dist.	9269 Dec 04 02:16	24°♄02'51	0.60690 AU
direct	9269 Jan 02 22:54	2°♄52'36		inferior conj	9269 Dec 07 05:25	21°♄23'56	-3°43'35
morning max el	9269 Jan 09 15:35	6°♄18'17	17°47'35	minimum elong	9269 Dec 07 12:27	21°♄09'00	3°41'02
	9269 Jan 25 02:13	0°♄		morning rise	9269 Dec 14 19:12	16°♄34'01	
morning set	9269 Jan 25 15:51	0°♄59'59		direct	9269 Dec 16 23:27	16°♄15'10	
desc. node	9269 Feb 04 14:39	18°♄13'50		asc. node	9269 Dec 19 05:30	16°♄36'11	
				morning max el	9269 Dec 24 06:06	19°♄53'32	17°59'42
					9269 Dec 31 17:19	0°♄	
superior conj	9269 Feb 06 08:59	21°♄11'35	-0°13'04	morning set	9270 Jan 08 21:18	14°♄32'40	
minimum elong	9269 Feb 06 07:41	21°♄06'09	0°12'40		9270 Jan 17 08:38	0°♄	
behind sun begin	9269 Feb 06 02:02	20°♄42'32					
behind sun end	9269 Feb 06 13:20	21°♄29'43					
	9269 Feb 11 17:29	0°♄		superior conj	9270 Jan 18 23:58	2°♄54'16	0°26'00
max. Earth dist.	9269 Feb 13 01:05	2°♄07'27	1.43980 AU	minimum elong	9270 Jan 19 02:03	3°♄03'25	0°25'57
evening rise	9269 Feb 21 07:16	15°♄07'39		desc. node	9270 Jan 22 11:33	8°♄57'16	
	9269 Mar 03 03:03	0°♄		max. Earth dist.	9270 Jan 26 14:00	15°♄52'23	1.42279 AU
evening max el	9269 Mar 23 12:05	27°♄15'33	21°10'20	evening rise	9270 Feb 01 07:24	25°♄10'33	
	9269 Mar 26 13:20	0°♄			9270 Feb 04 08:55	0°♄	
asc. node	9269 Mar 30 07:06	2°♄03'34			9270 Feb 25 00:46	0°♄	

evening max el	9270 Mar 06 06:05	10° Υ 58'27	22°26'57		9271 Jan 28 11:38	0° H	
retrograde	9270 Mar 16 00:27	16° Υ 45'19		evening max el	9271 Feb 16 20:48	24° H 44'31	23°47'07
asc. node	9270 Mar 17 04:14	16° Υ 38'39			9271 Feb 23 13:19	0° Υ	
evening set	9270 Mar 20 17:13	14° Υ 49'27		retrograde	9271 Feb 27 18:18	1° Υ 09'41	
inferior conj	9270 Mar 26 01:17	8° Υ 27'08	2°31'52		9271 Mar 03 14:13	30° R H	
minimum elong	9270 Mar 25 23:06	8° Υ 34'45	2°31'16	asc. node	9271 Mar 04 01:22	29° H 41'32	
min. Earth dist.	9270 Mar 25 21:15	8° Υ 41'12	0.68525 AU	evening set	9271 Mar 04 23:01	28° H 59'30	
morning rise	9270 Mar 31 04:49	2° Υ 17'23		min. Earth dist.	9271 Mar 09 17:48	23° H 26'02	0.68354 AU
direct	9270 Apr 04 20:53	0° Υ 19'58		inferior conj	9271 Mar 10 09:45	22° H 31'40	1°56'04
morning max el	9270 Apr 14 01:05	5° Υ 41'30	21°55'12	minimum elong	9271 Mar 10 07:36	22° H 38'59	1°55'25
desc. node	9270 Apr 20 11:42	13° Υ 07'27		morning rise	9271 Mar 15 16:12	16° H 28'06	
	9270 May 02 15:49	0° B		direct	9271 Mar 19 18:46	14° H 53'01	
morning set	9270 May 16 18:18	21° B 40'06		morning max el	9271 Mar 27 19:49	19° H 27'40	20°35'52
	9270 May 21 20:52	0° II			9271 Apr 05 12:19	0° Υ	
max. Earth dist.	9270 May 22 12:28	1° II 04'51	1.41483 AU	desc. node	9271 Apr 07 08:36	2° Υ 32'42	
					9271 Apr 25 19:26	0° B	
superior conj	9270 May 30 05:26	14° II 17'05	-1°48'40	morning set	9271 Apr 26 00:38	0° B 20'09	
minimum elong	9270 May 30 11:32	14° II 43'54	1°48'20	max. Earth dist.	9271 May 04 19:11	14° B 12'40	1.43406 AU
	9270 Jun 07 22:02	0° B					
evening rise	9270 Jun 09 21:44	3° B 40'21		superior conj	9271 May 11 08:14	24° B 57'01	-2°07'53
asc. node	9270 Jun 13 02:58	9° B 35'47		minimum elong	9271 May 11 12:17	25° B 13'53	2°07'58
evening max el	9270 Jun 26 01:15	29° B 21'06	18°13'07		9271 May 14 08:13	0° II	
	9270 Jun 26 17:46	0° Ω		evening rise	9271 May 23 14:27	16° II 03'22	
retrograde	9270 Jul 03 02:46	2° Ω 55'00		asc. node	9271 May 31 00:01	28° II 55'19	
evening set	9270 Jul 05 10:41	2° Ω 32'24			9271 May 31 15:29	0° B	
	9270 Jul 09 22:25	30° R B		evening max el	9271 Jun 09 13:50	12° B 27'20	18°04'55
inferior conj	9270 Jul 12 14:03	27° B 47'39	1°24'10	retrograde	9271 Jun 16 02:03	15° B 48'54	
minimum elong	9270 Jul 12 16:33	27° B 42'11	1°23'04	evening set	9271 Jun 18 17:34	15° B 15'02	
min. Earth dist.	9270 Jul 15 22:48	24° B 52'30	0.59367 AU	inferior conj	9271 Jun 25 04:47	10° B 10'32	2°24'37
desc. node	9270 Jul 17 11:07	23° B 40'44		minimum elong	9271 Jun 25 07:39	10° B 03'17	2°23'35
morning rise	9270 Jul 19 19:18	22° B 07'01		min. Earth dist.	9271 Jun 28 06:05	7° B 07'16	0.61627 AU
direct	9270 Jul 26 03:49	20° B 15'23		morning rise	9271 Jul 01 19:31	4° B 08'03	
morning max el	9270 Aug 09 12:31	28° B 05'08	27°34'20	desc. node	9271 Jul 04 08:13	2° B 42'15	
	9270 Aug 11 09:14	0° Ω		direct	9271 Jul 08 11:59	1° B 48'42	
	9270 Sep 01 00:16	0° M		morning max el	9271 Jul 22 17:07	9° B 49'41	27°56'21
asc. node	9270 Sep 09 02:42	15° M 43'43			9271 Aug 07 08:50	0° Ω	
morning set	9270 Sep 10 01:41	17° M 43'33			9271 Aug 24 05:18	0° M	
	9270 Sep 15 17:49	0° B		morning set	9271 Aug 25 03:49	1° M 54'45	
max. Earth dist.	9270 Sep 16 12:30	1° B 43'26	1.31573 AU	asc. node	9271 Aug 26 23:37	5° M 42'08	
				max. Earth dist.	9271 Aug 30 20:09	13° M 57'43	1.31903 AU
superior conj	9270 Sep 17 03:50	3° B 08'31	1°13'23				
minimum elong	9270 Sep 17 01:35	2° B 56'06	1°13'04	superior conj	9271 Sep 01 13:56	17° M 46'22	0°53'53
evening rise	9270 Sep 23 21:37	17° B 57'05		minimum elong	9271 Sep 01 11:51	17° M 34'56	0°53'26
	9270 Sep 29 18:56	0° M			9271 Sep 07 03:29	0° B	
desc. node	9270 Oct 13 09:31	22° M 38'43		evening rise	9271 Sep 08 08:36	2° B 37'13	
	9270 Oct 19 07:19	0° A			9271 Sep 22 23:29	0° M	
evening max el	9270 Oct 22 10:10	3° A 12'22	26°07'28	desc. node	9271 Sep 30 06:41	9° M 54'13	
retrograde	9270 Nov 05 08:05	10° A 16'00		evening max el	9271 Oct 04 00:37	13° M 53'24	24°42'05
evening set	9270 Nov 11 18:40	8° A 36'50		retrograde	9271 Oct 17 19:53	20° M 49'47	
min. Earth dist.	9270 Nov 15 23:05	6° A 02'07	0.58597 AU	evening set	9271 Oct 23 05:13	19° M 44'54	
inferior conj	9270 Nov 19 02:28	3° A 43'44	-4°48'46	min. Earth dist.	9271 Oct 28 11:46	16° M 58'46	0.56688 AU
minimum elong	9270 Nov 19 09:52	3° A 30'05	4°46'51	inferior conj	9271 Oct 31 03:24	15° M 16'53	-5°32'23
	9270 Nov 25 00:57	30° R M		minimum elong	9271 Oct 31 07:15	15° M 10'41	5°31'50
morning rise	9270 Nov 27 03:26	29° M 16'17		morning rise	9271 Nov 08 11:31	11° M 11'56	
direct	9270 Nov 29 09:11	28° M 59'36		direct	9271 Nov 11 00:06	10° M 54'22	
	9270 Dec 03 12:21	0° A		morning max el	9271 Nov 20 12:21	15° M 25'27	19°26'12
asc. node	9270 Dec 06 02:32	1° A 40'27		asc. node	9271 Nov 22 23:33	18° M 03'58	
morning max el	9270 Dec 07 14:15	2° A 59'27	18°32'01		9271 Nov 30 21:07	0° A	
morning set	9270 Dec 23 15:05	28° A 39'08		morning set	9271 Dec 07 17:08	13° A 07'07	
	9270 Dec 24 07:50	0° B					
superior conj	9271 Jan 01 12:41	15° B 38'38	0°57'01	superior conj	9271 Dec 15 17:56	29° A 09'32	1°19'19
minimum elong	9271 Jan 01 15:55	15° B 53'43	0°56'52	minimum elong	9271 Dec 15 20:52	29° A 23'49	1°19'18
max. Earth dist.	9271 Jan 08 22:38	28° B 58'10	1.40211 AU		9271 Dec 16 04:17	0° B	
desc. node	9271 Jan 09 08:29	29° B 40'51		max. Earth dist.	9271 Dec 22 04:26	11° B 21'38	1.38021 AU
	9271 Jan 09 12:56	0° \approx		evening rise	9271 Dec 25 21:51	18° B 02'40	
evening rise	9271 Jan 13 03:52	6° \approx 08'30		desc. node	9271 Dec 27 05:27	20° B 20'25	
					9272 Jan 01 23:46	0° \approx	

	9272 Jan 22 19:33	0° H				9272 Dec 07 00:46	0° Z	
evening max el	9272 Jan 30 10:01	8° H 32'18	25°04'32	desc. node		9272 Dec 13 02:28	10° Z 52'04	
retrograde	9272 Feb 11 08:10	15° H 27'38				9272 Dec 25 02:52	0° \approx	
evening set	9272 Feb 17 01:18	13° H 05'10		evening max el		9273 Jan 11 23:14	22° \approx 19'19	26°12'01
asc. node	9272 Feb 18 22:33	11° H 14'35		retrograde		9273 Jan 24 17:07	29° \approx 33'08	
min. Earth dist.	9272 Feb 21 12:28	8° H 06'19	0.67773 AU	evening set		9273 Jan 30 22:19	27° \approx 01'52	
inferior conj	9272 Feb 22 16:02	6° H 36'07	1°11'31	min. Earth dist.		9273 Feb 04 03:03	22° \approx 37'29	0.66808 AU
minimum elong	9272 Feb 22 14:26	6° H 41'22	1°11'03	asc. node		9273 Feb 04 19:42	21° \approx 46'28	
morning rise	9272 Feb 28 03:52	0° H 40'09		inferior conj		9273 Feb 05 18:11	20° \approx 36'58	0°18'32
	9272 Feb 29 07:41	30° $\text{R}\approx$		minimum elong		9273 Feb 05 17:41	20° \approx 38'28	0°18'33
direct	9272 Mar 02 17:53	29° \approx 26'20		morning rise		9273 Feb 11 13:48	14° \approx 50'24	
	9272 Mar 05 06:33	0° H		direct		9273 Feb 14 16:43	13° \approx 55'06	
morning max el	9272 Mar 09 22:26	3° H 25'24	19°29'50	morning max el		9273 Feb 21 08:16	17° \approx 30'56	18°39'23
greatest brilliancy	9272 Mar 22 15:56	20° H 05'38	-0.7m			9273 Mar 02 22:01	0° H	
desc. node	9272 Mar 24 05:28	22° H 25'04		desc. node		9273 Mar 11 02:19	12° H 37'14	
	9272 Mar 29 05:57	0° Y		morning set		9273 Mar 14 13:22	18° H 03'15	
morning set	9272 Apr 03 23:03	8° Y 45'22				9273 Mar 22 04:06	0° Y	
max. Earth dist.	9272 Apr 16 08:15	28° Y 03'24	1.44791 AU	max. Earth dist.		9273 Mar 30 01:47	12° Y 22'02	1.45503 AU
	9272 Apr 17 13:43	0° B						
superior conj	9272 Apr 20 10:39	4° B 34'29	-2°11'39	superior conj		9273 Mar 30 19:11	13° Y 30'09	-1°55'23
minimum elong	9272 Apr 20 08:30	4° B 25'54	2°11'46	minimum elong		9273 Mar 30 10:38	12° Y 56'39	1°54'49
evening rise	9272 May 04 10:38	27° B 31'29				9273 Apr 10 06:34	0° B	
	9272 May 05 22:07	0° II		evening rise		9273 Apr 15 07:05	7° B 59'58	
asc. node	9272 May 16 21:07	17° II 49'37		greatest brilliancy		9273 Apr 23 02:16	20° B 27'22	-0.9m
evening max el	9272 May 23 03:18	25° II 51'05	18°15'33			9273 Apr 29 06:50	0° II	
retrograde	9272 May 29 12:27	29° II 14'40		asc. node		9273 May 03 18:13	6° II 09'51	
evening set	9272 Jun 01 11:27	28° II 27'38		evening max el		9273 May 06 14:52	9° II 25'01	18°44'14
inferior conj	9272 Jun 07 10:32	23° II 05'13	3°01'02	retrograde		9273 May 13 05:51	13° II 03'33	
minimum elong	9272 Jun 07 12:34	22° II 59'28	3°00'26	evening set		9273 May 16 12:33	12° II 02'02	
min. Earth dist.	9272 Jun 09 22:48	20° II 15'43	0.63755 AU	inferior conj		9273 May 22 03:19	6° II 23'18	3°18'11
morning rise	9272 Jun 13 12:21	16° II 50'57		minimum elong		9273 May 22 04:06	6° II 20'53	3°17'52
direct	9272 Jun 20 05:36	14° II 12'28		min. Earth dist.		9273 May 24 00:29	4° II 04'05	0.65573 AU
desc. node	9272 Jun 20 05:17	14° II 12'28		morning rise		9273 May 27 18:55	0° II 04'29	
morning max el	9272 Jul 04 02:06	22° II 14'58	27°40'40			9273 May 27 21:01	30° RB	
	9272 Jul 10 21:18	0° B		direct		9273 Jun 03 06:51	27° B 18'40	
	9272 Jul 30 14:02	0° O		desc. node		9273 Jun 07 02:19	28° B 06'58	
morning set	9272 Aug 07 22:35	15° O 42'25				9273 Jun 10 12:41	0° II	
asc. node	9272 Aug 12 20:33	25° O 46'38		morning max el		9273 Jun 16 12:34	5° II 09'16	26°52'38
max. Earth dist.	9272 Aug 12 21:32	25° O 51'46	1.32720 AU			9273 Jul 05 11:34	0° B	
	9272 Aug 14 20:18	0° np		morning set		9273 Jul 22 06:55	28° B 57'21	
superior conj	9272 Aug 15 20:34	2° np 10'18	0°29'48			9273 Jul 22 19:59	0° O	
minimum elong	9272 Aug 15 19:12	2° np 02'53	0°29'21	max. Earth dist.		9273 Jul 26 13:09	7° O 18'27	1.34040 AU
evening rise	9272 Aug 22 20:10	17° np 16'09		superior conj		9273 Jul 30 21:28	16° O 13'22	0°01'41
	9272 Aug 29 02:00	0° B		minimum elong		9273 Jul 30 21:24	16° O 12'59	0°01'25
evening max el	9272 Sep 14 11:36	24° B 05'45	23°03'00	behind sun begin		9273 Jul 30 15:42	15° O 43'17	
desc. node	9272 Sep 16 03:51	25° B 38'00		behind sun end		9273 Jul 31 03:05	16° O 42'44	
	9272 Sep 23 09:09	0° ml		asc. node		9273 Jul 30 17:28	15° O 52'28	
retrograde	9272 Sep 27 19:31	0° ml 45'00				9273 Aug 06 09:56	0° np	
evening set	9272 Oct 01 17:16	0° ml 11'40		evening rise		9273 Aug 07 06:22	1° np 47'29	
	9272 Oct 02 08:55	30° RB				9273 Aug 23 06:36	0° B	
min. Earth dist.	9272 Oct 08 20:32	26° B 55'49	0.55276 AU	evening max el		9273 Aug 27 04:00	4° B 24'18	21°26'58
inferior conj	9272 Oct 10 09:01	26° B 03'04	-5°34'29	desc. node		9273 Sep 03 01:02	9° B 18'32	
minimum elong	9272 Oct 10 05:21	26° B 08'23	5°34'05	retrograde		9273 Sep 08 08:48	10° B 27'22	
morning rise	9272 Oct 18 19:23	22° B 13'15		evening set		9273 Sep 10 22:26	10° B 12'16	
direct	9272 Oct 21 20:06	21° B 51'37		inferior conj		9273 Sep 20 02:27	6° B 15'18	-4°40'46
morning max el	9272 Nov 01 21:37	27° B 03'31	20°42'52	minimum elong		9273 Sep 19 17:03	6° B 28'27	4°38'32
	9272 Nov 04 16:40	0° ml		min. Earth dist.		9273 Sep 20 04:41	6° B 12'09	0.54662 AU
asc. node	9272 Nov 08 20:32	5° ml 31'03		morning rise		9273 Sep 28 12:30	2° B 24'38	
morning set	9272 Nov 21 00:35	27° ml 48'25		direct		9273 Oct 02 05:12	1° B 55'01	
	9272 Nov 22 02:01	0° x		morning max el		9273 Oct 14 18:06	7° B 52'23	22°19'07
superior conj	9272 Nov 28 11:15	13° x 14'08	1°33'21	asc. node		9273 Oct 26 17:28	23° B 46'33	
minimum elong	9272 Nov 28 13:07	13° x 23'41	1°33'30			9273 Oct 30 04:42	0° ml	
max. Earth dist.	9272 Dec 03 12:23	23° x 18'40	1.35960 AU	morning set		9273 Nov 05 11:05	12° ml 35'55	
evening rise	9272 Dec 07 10:55	0° Z 47'05		superior conj		9273 Nov 12 12:54	27° ml 41'00	1°39'58
				minimum elong		9273 Nov 12 13:30	27° ml 44'10	1°40'11

	9273 Nov 13 15:15	0°♊		minimum elong	9274 Oct 27 19:31	12°♌18'45	1°40'06
max. Earth dist.	9273 Nov 16 03:16	5°♊11'50	1.34211 AU	max. Earth dist.	9274 Oct 30 02:30	17°♌15'47	1.32878 AU
evening rise	9273 Nov 20 15:11	14°♊11'07		evening rise	9274 Nov 04 07:02	28°♌05'20	
	9273 Nov 29 07:00	0°♋			9274 Nov 05 05:53	0°♊	
desc. node	9273 Nov 29 23:31	1°♋10'26		desc. node	9274 Nov 16 20:36	21°♊09'09	
	9273 Dec 19 22:47	0°♌			9274 Nov 22 11:57	0°♋	
evening max el	9273 Dec 25 12:40	5°♌58'07	27°02'14	evening max el	9274 Dec 08 00:57	19°♋16'34	27°27'57
retrograde	9274 Jan 07 20:13	13°♌18'57		retrograde	9274 Dec 21 16:39	26°♋36'16	
evening set	9274 Jan 14 12:06	10°♌43'59		evening set	9274 Dec 28 16:10	24°♋04'31	
min. Earth dist.	9274 Jan 18 11:14	6°♌53'33	0.65477 AU	min. Earth dist.	9275 Jan 01 10:45	20°♋46'03	0.63815 AU
inferior conj	9274 Jan 20 14:00	4°♌29'27	-0°42'25	inferior conj	9275 Jan 04 00:52	18°♋06'42	-1°50'14
minimum elong	9274 Jan 20 15:14	4°♌25'57	0°41'38	minimum elong	9275 Jan 04 04:21	17°♋57'43	1°48'32
asc. node	9274 Jan 22 16:48	2°♌10'03		asc. node	9275 Jan 09 13:52	13°♋21'27	
	9274 Jan 25 02:03	30°♌♋		morning rise	9275 Jan 10 18:23	12°♋46'59	
morning rise	9274 Jan 26 19:38	28°♋54'45		direct	9275 Jan 13 04:41	12°♋17'47	
direct	9274 Jan 29 13:13	28°♋14'23		morning max el	9275 Jan 19 16:38	15°♋39'55	17°49'08
	9274 Feb 03 01:59	0°♍			9275 Jan 29 20:56	0°♌	
morning max el	9274 Feb 04 23:16	1°♍38'20	18°05'39	morning set	9275 Feb 05 07:19	10°♍54'41	
morning set	9274 Feb 23 08:33	28°♍48'48		desc. node	9275 Feb 12 20:03	23°♍40'00	
	9274 Feb 24 02:01	0°♎			9275 Feb 16 15:58	0°♍	
desc. node	9274 Feb 25 23:11	3°♎03'52					
				superior conj	9275 Feb 18 02:13	2°♎19'53	-0°38'01
superior conj	9274 Mar 10 02:27	22°♎29'44	-1°21'10	minimum elong	9275 Feb 17 22:03	2°♎02'55	0°37'16
minimum elong	9274 Mar 09 17:37	21°♎54'53	1°20'05	max. Earth dist.	9275 Feb 23 16:47	11°♎20'33	1.44717 AU
max. Earth dist.	9274 Mar 12 21:34	26°♎53'34	1.45476 AU	evening rise	9275 Mar 05 17:52	27°♎00'27	
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evening rise	9274 Mar 26 06:05	17°♏40'08			9275 Mar 28 07:22	0°♏	
	9274 Apr 03 05:58	0°♐		evening max el	9275 Apr 03 00:28	6°♏44'15	20°30'02
greatest brilliancy	9274 Apr 08 03:04	7°♐23'56	-0.7m	asc. node	9275 Apr 07 12:29	10°♏22'53	
evening max el	9274 Apr 19 22:23	23°♐04'00	19°29'44	retrograde	9275 Apr 11 01:42	11°♏25'46	
asc. node	9274 Apr 20 15:21	23°♐45'31		evening set	9275 Apr 15 01:51	9°♏53'36	
retrograde	9274 Apr 27 03:06	27°♐09'14		inferior conj	9275 Apr 20 09:12	3°♏46'38	3°09'30
evening set	9274 Apr 30 18:05	25°♐52'31		minimum elong	9275 Apr 20 07:48	3°♏51'25	3°09'10
inferior conj	9274 May 06 03:46	19°♐58'47	3°20'03	min. Earth dist.	9275 Apr 21 01:08	2°♏51'58	0.67931 AU
minimum elong	9274 May 06 03:21	20°♐00'12	3°19'49		9275 Apr 23 05:38	30°♎♏	
min. Earth dist.	9274 May 07 09:51	18°♐19'48	0.66978 AU	morning rise	9275 Apr 25 13:32	27°♏30'02	
morning rise	9274 May 11 12:15	13°♐39'53		direct	9275 May 01 03:06	25°♏01'34	
direct	9274 May 17 14:22	10°♐58'13			9275 May 10 13:00	0°♐	
desc. node	9274 May 24 23:16	13°♐57'39		desc. node	9275 May 11 20:12	1°♐14'22	
morning max el	9274 May 29 22:34	18°♐21'31	25°40'49	morning max el	9275 May 12 07:53	1°♐43'33	24°15'00
	9274 Jun 08 17:47	0°♑			9275 Jun 02 18:13	0°♑	
	9274 Jun 28 12:15	0°♒		morning set	9275 Jun 16 23:50	23°♑06'06	
morning set	9274 Jul 05 00:58	11°♒29'39		max. Earth dist.	9275 Jun 20 16:09	29°♑35'38	1.37961 AU
max. Earth dist.	9274 Jul 08 18:15	18°♒25'20	1.35828 AU		9275 Jun 20 21:34	0°♒	
superior conj	9274 Jul 14 14:00	29°♒48'53	-0°29'31	superior conj	9275 Jun 27 18:47	12°♒47'50	-1°02'03
minimum elong	9274 Jul 14 15:47	29°♒57'51	0°29'26	minimum elong	9275 Jun 27 22:45	13°♒06'50	1°01'39
	9274 Jul 14 16:13	0°♓		asc. node	9275 Jul 04 11:24	25°♒53'31	
asc. node	9274 Jul 17 14:25	5°♓05'13		evening rise	9275 Jul 06 13:52	0°♓03'31	
evening rise	9274 Jul 22 13:08	16°♓05'45			9275 Jul 06 13:10	0°♓	
	9274 Jul 29 16:02	0°♔		evening max el	9275 Jul 23 02:22	26°♓58'22	19°05'51
evening max el	9274 Aug 09 08:36	15°♔18'35	20°06'12		9275 Jul 26 23:45	0°♔	
retrograde	9274 Aug 19 22:02	20°♔32'12		retrograde	9275 Aug 01 00:15	1°♔23'42	
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evening set	9274 Aug 21 20:12	20°♔22'34			9275 Aug 06 08:59	30°♎♓	
inferior conj	9274 Aug 30 21:25	16°♔23'34	-3°00'26	desc. node	9275 Aug 07 19:18	29°♓14'21	
minimum elong	9274 Aug 30 13:22	16°♔35'34	2°57'42	inferior conj	9275 Aug 11 07:24	26°♓59'21	-1°04'51
min. Earth dist.	9274 Sep 01 14:29	15°♔22'24	0.54998 AU	minimum elong	9275 Aug 11 04:35	27°♓04'10	1°03'55
morning rise	9274 Sep 08 05:20	12°♔11'52		min. Earth dist.	9275 Aug 14 04:01	25°♓02'40	0.56220 AU
direct	9274 Sep 12 16:19	11°♔28'49		morning rise	9275 Aug 19 08:33	22°♓12'01	
morning max el	9274 Sep 26 06:50	18°♔08'37	24°05'32	direct	9275 Aug 24 15:02	21°♓07'22	
	9274 Oct 06 00:47	0°♕		morning max el	9275 Sep 07 19:37	28°♓22'20	25°46'19
asc. node	9274 Oct 13 14:22	12°♕38'58			9275 Sep 09 10:43	0°♔	
morning set	9274 Oct 20 22:48	27°♕24'33			9275 Sep 29 10:50	0°♕	
	9274 Oct 22 03:50	0°♖		asc. node	9275 Sep 30 11:17	1°♕59'07	
				morning set	9275 Oct 05 10:06	12°♕09'53	
superior conj	9274 Oct 27 20:07	12°♖21'58	1°39'56				

































































































































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minimum elong	9275 Oct 12 05:04	27°♄02'01	1°33'56				
max. Earth dist.	9275 Oct 13 08:27	29°♄33'08	1.31999 AU	superior conj	9276 Sep 25 18:21	11°♄59'24	1°22'23
	9275 Oct 13 13:20	0°♄		minimum elong	9276 Sep 25 16:15	11°♄47'43	1°22'11
evening rise	9275 Oct 19 07:20	12°♄21'46		max. Earth dist.	9276 Sep 25 17:50	11°♄56'31	1.31588 AU
	9275 Oct 28 09:33	0°♄		evening rise	9276 Oct 02 13:28	26°♄52'18	
desc. node	9275 Nov 03 17:41	10°♄40'13			9276 Oct 04 01:09	0°♄	
	9275 Nov 18 08:47	0°♄		desc. node	9276 Oct 20 14:49	29°♄31'43	
evening max el	9275 Nov 20 09:48	2°♄01'42	27°23'10		9276 Oct 20 22:34	0°♄	
retrograde	9275 Dec 04 05:50	9°♄16'24		evening max el	9276 Nov 01 12:35	14°♄01'02	26°44'35
evening set	9275 Dec 11 07:28	6°♄56'50		retrograde	9276 Nov 15 10:45	21°♄09'30	
min. Earth dist.	9275 Dec 15 00:03	4°♄04'45	0.61880 AU	evening set	9276 Nov 22 05:53	19°♄12'46	
inferior conj	9275 Dec 17 23:46	1°♄21'22	-3°02'15	min. Earth dist.	9276 Nov 26 02:41	16°♄36'05	0.59789 AU
minimum elong	9275 Dec 18 05:41	1°♄07'52	2°59'48	inferior conj	9276 Nov 29 07:14	14°♄03'30	-4°12'50
	9275 Dec 19 12:05	30°♄♂		minimum elong	9276 Nov 29 14:46	13°♄48'26	4°10'24
morning rise	9275 Dec 25 06:15	26°♄19'58		morning rise	9276 Dec 07 02:11	9°♄23'17	
direct	9275 Dec 27 11:46	25°♄58'21		direct	9276 Dec 09 06:21	9°♄05'51	
asc. node	9275 Dec 27 10:55	25°♄58'22		asc. node	9276 Dec 13 07:57	10°♄10'12	
morning max el	9276 Jan 03 09:15	29°♄28'00	17°50'30	morning max el	9276 Dec 16 21:36	12°♄52'13	18°10'56
	9276 Jan 03 21:52	0°♄			9276 Dec 28 09:43	0°♄	
morning set	9276 Jan 19 03:23	24°♄01'11		morning set	9277 Jan 01 14:36	7°♄49'14	
	9276 Jan 22 11:26	0°♄					
superior conj	9276 Jan 30 03:02	13°♄22'39	0°04'21	superior conj	9277 Jan 11 03:51	25°♄33'01	0°40'13
minimum elong	9276 Jan 30 03:27	13°♄24'25	0°04'32	minimum elong	9277 Jan 11 06:39	25°♄45'41	0°40'04
behind sun begin	9276 Jan 29 19:08	12°♄48'53			9277 Jan 13 15:43	0°♄	
behind sun end	9276 Jan 30 11:46	13°♄59'53		desc. node	9277 Jan 16 13:54	5°♄05'46	
desc. node	9276 Jan 30 16:58	14°♄22'01		max. Earth dist.	9277 Jan 18 18:53	8°♄51'34	1.41424 AU
max. Earth dist.	9276 Feb 06 08:27	25°♄25'02	1.43313 AU	evening rise	9277 Jan 23 17:45	17°♄03'03	
	9276 Feb 09 04:40	0°♄			9277 Jan 31 23:40	0°♄	
evening rise	9276 Feb 13 09:37	6°♄38'36			9277 Feb 22 17:51	0°♄	
	9276 Feb 28 23:38	0°♄		evening max el	9277 Feb 26 13:17	4°♄08'59	23°00'59
evening max el	9276 Mar 15 21:02	20°♄25'29	21°41'58	retrograde	9277 Mar 08 19:36	10°♄13'37	
asc. node	9276 Mar 24 09:36	25°♄47'04		asc. node	9277 Mar 11 06:45	9°♄43'44	
retrograde	9276 Mar 24 23:45	25°♄48'49		evening set	9277 Mar 13 17:15	8°♄11'35	
evening set	9276 Mar 29 10:07	24°♄01'23		min. Earth dist.	9277 Mar 18 17:06	2°♄17'53	0.68496 AU
inferior conj	9276 Apr 03 17:21	17°♄43'34	2°48'24	inferior conj	9277 Mar 19 02:15	1°♄46'14	2°17'47
minimum elong	9276 Apr 03 15:20	17°♄50'35	2°47'53	minimum elong	9277 Mar 19 00:01	1°♄53'57	2°17'09
min. Earth dist.	9276 Apr 03 20:18	17°♄33'17	0.68433 AU		9277 Mar 20 09:18	30°♄♂	
morning rise	9276 Apr 08 20:24	11°♄30'51		morning rise	9277 Mar 24 06:41	25°♄38'43	
direct	9276 Apr 13 20:17	9°♄21'18		direct	9277 Mar 28 16:50	23°♄50'51	
morning max el	9276 Apr 23 18:19	15°♄13'08	22°45'08	morning max el	9277 Apr 06 09:02	28°♄51'57	21°20'02
desc. node	9276 Apr 27 17:08	19°♄33'51			9277 Apr 07 11:24	0°♄	
	9276 May 05 19:13	0°♄		desc. node	9277 Apr 14 14:03	8°♄38'46	
	9276 May 25 17:53	0°♄			9277 Apr 29 10:46	0°♄	
morning set	9276 May 27 22:13	3°♄33'41		morning set	9277 May 07 17:35	12°♄47'42	
max. Earth dist.	9276 Jun 01 13:06	11°♄18'25	1.40226 AU	max. Earth dist.	9277 May 14 14:59	23°♄52'54	1.42348 AU
					9277 May 18 07:26	0°♄	
superior conj	9276 Jun 09 07:43	25°♄00'28	-1°33'06	superior conj	9277 May 22 00:13	6°♄17'11	-1°58'18
minimum elong	9276 Jun 09 13:29	25°♄26'42	1°32'39	minimum elong	9277 May 22 05:55	6°♄41'46	1°58'09
	9276 Jun 12 01:00	0°♄		evening rise	9277 Jun 02 07:53	26°♄22'49	
evening rise	9276 Jun 19 05:27	13°♄32'25			9277 Jun 04 07:53	0°♄	
asc. node	9276 Jun 20 08:24	15°♄40'08		asc. node	9277 Jun 07 05:27	5°♄11'32	
	9276 Jun 28 07:37	0°♄		evening max el	9277 Jun 18 17:15	22°♄12'52	18°07'19
evening max el	9276 Jul 05 06:33	9°♄19'25	18°26'32	retrograde	9277 Jun 25 11:49	25°♄39'33	
retrograde	9276 Jul 12 21:10	13°♄07'48		evening set	9277 Jun 27 22:57	25°♄12'32	
evening set	9276 Jul 15 00:30	12°♄50'36		inferior conj	9277 Jul 04 19:01	20°♄19'33	1°52'58
inferior conj	9276 Jul 22 14:44	8°♄17'52	0°37'06	minimum elong	9277 Jul 04 21:53	20°♄12'52	1°51'49
minimum elong	9276 Jul 22 16:02	8°♄15'16	0°36'22	min. Earth dist.	9277 Jul 08 01:46	17°♄17'43	0.60329 AU
desc. node	9276 Jul 24 16:27	6°♄37'54		morning rise	9277 Jul 11 18:01	14°♄28'15	
min. Earth dist.	9276 Jul 25 23:15	5°♄37'50	0.58106 AU	desc. node	9277 Jul 11 13:34	14°♄35'20	
morning rise	9276 Jul 30 04:03	2°♄54'05		direct	9277 Jul 18 06:58	12°♄23'41	
direct	9276 Aug 05 04:31	1°♄20'04		morning max el	9277 Aug 01 14:38	20°♄19'54	27°48'21
morning max el	9276 Aug 19 13:44	9°♄00'45	27°04'29		9277 Aug 09 22:00	0°♄	
	9276 Sep 04 13:01	0°♄			9277 Aug 28 10:47	0°♄	
asc. node	9276 Sep 16 08:11	21°♄38'46		morning set	9277 Sep 03 00:32	11°♄08'17	
morning set	9276 Sep 18 19:15	26°♄46'05		asc. node	9277 Sep 03 05:07	11°♄32'05	

max. Earth dist.	9277 Sep 09 03:08	24° \mathbb{M} 17'04	1.31652 AU		9278 Aug 20 08:11	0° \mathbb{M}	
				asc. node	9278 Aug 21 02:02	1° \mathbb{M} 33'31	
superior conj	9277 Sep 10 05:37	26° \mathbb{M} 43'23	1°05'43	max. Earth dist.	9278 Aug 23 08:31	6° \mathbb{M} 23'27	1.32197 AU
minimum elong	9277 Sep 10 03:23	26° \mathbb{M} 31'01	1°05'19				
	9277 Sep 11 17:07	0° \mathbb{L}		superior conj	9278 Aug 25 14:30	11° \mathbb{M} 16'04	0°44'13
evening rise	9277 Sep 16 23:16	11° \mathbb{L} 31'02		minimum elong	9278 Aug 25 12:39	11° \mathbb{M} 05'57	0°43'44
	9277 Sep 26 06:24	0° \mathbb{M}		evening rise	9278 Sep 01 10:44	26° \mathbb{M} 11'26	
desc. node	9277 Oct 07 11:58	17° \mathbb{M} 28'13			9278 Sep 03 05:52	0° \mathbb{L}	
evening max el	9277 Oct 14 07:37	25° \mathbb{M} 09'53	25°33'54		9278 Sep 20 19:12	0° \mathbb{M}	
	9277 Oct 20 15:51	0° \mathbb{L}		desc. node	9278 Sep 24 09:09	4° \mathbb{M} 08'08	
retrograde	9277 Oct 28 05:28	2° \mathbb{L} 11'03		evening max el	9278 Sep 25 19:55	5° \mathbb{M} 35'40	24°00'35
evening set	9277 Nov 03 06:36	0° \mathbb{L} 46'24		retrograde	9278 Oct 09 11:41	12° \mathbb{M} 25'42	
	9277 Nov 04 19:41	30° \mathbb{R} \mathbb{M}		evening set	9278 Oct 14 06:36	11° \mathbb{M} 35'28	
min. Earth dist.	9277 Nov 07 19:57	28° \mathbb{M} 08'52	0.57743 AU	min. Earth dist.	9278 Oct 20 06:30	8° \mathbb{M} 38'43	0.56013 AU
inferior conj	9277 Nov 10 19:56	26° \mathbb{M} 04'12	-5°11'05	inferior conj	9278 Oct 22 12:15	7° \mathbb{M} 16'56	-5°39'30
minimum elong	9277 Nov 11 02:25	25° \mathbb{M} 52'56	5°09'44	minimum elong	9278 Oct 22 13:11	7° \mathbb{M} 15'30	5°39'19
morning rise	9277 Nov 19 00:32	21° \mathbb{M} 46'24		morning rise	9278 Oct 30 21:47	3° \mathbb{M} 19'28	
direct	9277 Nov 21 08:19	21° \mathbb{M} 29'48		direct	9278 Nov 02 15:07	3° \mathbb{M} 00'26	
morning max el	9277 Nov 30 01:55	25° \mathbb{M} 42'16	18°52'15	morning max el	9278 Nov 12 18:39	7° \mathbb{M} 47'59	19°56'05
asc. node	9277 Nov 30 04:59	25° \mathbb{M} 49'42		asc. node	9278 Nov 17 01:58	12° \mathbb{M} 41'57	
	9277 Dec 03 19:26	0° \mathbb{L}			9278 Nov 27 08:49	0° \mathbb{L}	
morning set	9277 Dec 16 12:17	22° \mathbb{L} 05'33		morning set	9278 Nov 30 16:58	6° \mathbb{L} 40'23	
	9277 Dec 20 12:52	0° \mathbb{L}					
superior conj	9277 Dec 25 00:08	8° \mathbb{L} 38'11	1°07'32	superior conj	9278 Dec 08 11:00	22° \mathbb{L} 24'45	1°26'14
minimum elong	9277 Dec 25 03:22	8° \mathbb{L} 53'35	1°07'25	minimum elong	9278 Dec 08 13:32	22° \mathbb{L} 37'22	1°26'17
max. Earth dist.	9278 Jan 01 01:29	21° \mathbb{L} 36'39	1.39279 AU		9278 Dec 12 07:57	0° \mathbb{L}	
desc. node	9278 Jan 03 10:51	25° \mathbb{L} 47'53		max. Earth dist.	9278 Dec 14 07:59	3° \mathbb{L} 48'09	1.37119 AU
evening rise	9278 Jan 04 23:30	28° \mathbb{L} 25'11		evening rise	9278 Dec 18 02:04	10° \mathbb{L} 42'06	
	9278 Jan 05 21:52	0° \mathbb{L}		desc. node	9278 Dec 21 07:50	16° \mathbb{L} 24'47	
	9278 Jan 25 11:16	0° \mathbb{L}			9278 Dec 29 13:58	0° \mathbb{L}	
evening max el	9278 Feb 09 03:14	17° \mathbb{L} 56'02	24°20'58		9279 Jan 20 23:08	0° \mathbb{L}	
retrograde	9278 Feb 20 11:53	24° \mathbb{L} 35'17		evening max el	9279 Jan 22 16:33	1° \mathbb{L} 45'01	25°35'00
evening set	9278 Feb 25 21:44	22° \mathbb{L} 19'51		retrograde	9279 Feb 03 23:33	8° \mathbb{L} 48'52	
asc. node	9278 Feb 26 03:56	22° \mathbb{L} 06'23		evening set	9279 Feb 09 21:58	6° \mathbb{L} 22'17	
min. Earth dist.	9278 Mar 02 13:13	17° \mathbb{L} 00'54	0.68150 AU	asc. node	9279 Feb 13 01:04	3° \mathbb{L} 08'32	
inferior conj	9278 Mar 03 10:01	15° \mathbb{L} 50'58	1°38'14	min. Earth dist.	9279 Feb 14 06:22	1° \mathbb{L} 38'11	0.67409 AU
minimum elong	9278 Mar 03 08:03	15° \mathbb{L} 57'38	1°37'38	inferior conj	9279 Feb 15 14:47	29° \mathbb{L} 54'37	0°50'05
morning rise	9278 Mar 08 18:26	9° \mathbb{L} 50'12		minimum elong	9279 Feb 15 13:35	29° \mathbb{L} 58'28	0°49'47
direct	9278 Mar 12 15:33	8° \mathbb{L} 24'13			9279 Feb 15 13:06	30° \mathbb{R} \mathbb{L}	
morning max el	9278 Mar 20 06:55	12° \mathbb{L} 42'20	20°05'55	morning rise	9279 Feb 21 05:38	24° \mathbb{L} 02'22	
desc. node	9278 Apr 01 10:55	28° \mathbb{L} 16'22		direct	9279 Feb 24 14:51	22° \mathbb{L} 56'38	
	9278 Apr 02 15:33	0° \mathbb{Y}		morning max el	9279 Mar 03 12:45	26° \mathbb{L} 43'57	19°06'25
morning set	9278 Apr 16 17:37	21° \mathbb{Y} 12'28			9279 Mar 06 11:38	0° \mathbb{L}	
	9278 Apr 22 09:15	0° \mathbb{L}		greatest brilliancy	9279 Mar 16 21:43	14° \mathbb{L} 37'35	-0.7m
max. Earth dist.	9278 Apr 27 00:27	7° \mathbb{L} 20'07	1.44069 AU	desc. node	9279 Mar 19 07:46	18° \mathbb{L} 18'04	
				morning set	9279 Mar 26 20:15	29° \mathbb{L} 53'17	
superior conj	9278 May 02 16:32	16° \mathbb{L} 30'04	-2°11'44		9279 Mar 26 21:59	0° \mathbb{Y}	
minimum elong	9278 May 02 18:23	16° \mathbb{L} 37'38	2°11'56	max. Earth dist.	9279 Apr 09 16:17	21° \mathbb{Y} 26'56	1.45186 AU
	9278 May 10 18:49	0° \mathbb{L}					
evening rise	9278 May 15 16:24	8° \mathbb{L} 23'15		superior conj	9279 Apr 12 09:53	25° \mathbb{Y} 45'32	-2°07'17
asc. node	9278 May 25 02:32	24° \mathbb{L} 21'15		minimum elong	9279 Apr 12 04:36	25° \mathbb{Y} 24'39	2°07'10
	9278 May 28 19:27	0° \mathbb{L}			9279 Apr 15 02:04	0° \mathbb{L}	
evening max el	9278 Jun 02 06:42	5° \mathbb{L} 28'04	18°07'13	evening rise	9279 Apr 27 02:40	19° \mathbb{L} 26'04	
retrograde	9278 Jun 08 16:15	8° \mathbb{L} 48'24			9279 May 03 13:24	0° \mathbb{L}	
evening set	9278 Jun 11 11:04	8° \mathbb{L} 09'01		asc. node	9279 May 11 23:38	13° \mathbb{L} 02'10	
inferior conj	9278 Jun 17 16:39	2° \mathbb{L} 56'48	2°42'40	evening max el	9279 May 16 19:41	18° \mathbb{L} 56'57	18°25'33
minimum elong	9278 Jun 17 19:15	2° \mathbb{L} 49'52	2°41'48	retrograde	9279 May 23 06:08	22° \mathbb{L} 25'12	
	9278 Jun 20 11:44	30° \mathbb{R} \mathbb{L}		evening set	9279 May 26 08:27	21° \mathbb{L} 31'56	
min. Earth dist.	9278 Jun 20 12:53	29° \mathbb{L} 57'05	0.62568 AU	inferior conj	9279 Jun 01 03:31	16° \mathbb{L} 02'10	3°10'23
morning rise	9278 Jun 24 01:39	26° \mathbb{L} 48'34		minimum elong	9279 Jun 01 05:02	15° \mathbb{L} 57'41	3°09'55
desc. node	9278 Jun 28 10:39	24° \mathbb{L} 37'35		min. Earth dist.	9279 Jun 03 09:20	13° \mathbb{L} 24'18	0.64578 AU
direct	9278 Jun 30 19:29	24° \mathbb{L} 19'41		morning rise	9279 Jun 07 00:39	9° \mathbb{L} 45'24	
	9278 Jul 12 08:55	0° \mathbb{L}		direct	9279 Jun 13 16:15	7° \mathbb{L} 02'41	
morning max el	9278 Jul 14 21:12	2° \mathbb{L} 21'59	27°53'58	desc. node	9279 Jun 15 07:41	7° \mathbb{L} 11'36	
	9278 Aug 04 07:01	0° \mathbb{L}		morning max el	9279 Jun 27 07:08	15° \mathbb{L} 00'59	27°23'46
morning set	9278 Aug 17 23:50	25° \mathbb{L} 10'02			9279 Jul 09 12:30	0° \mathbb{L}	
					9279 Jul 28 00:06	0° \mathbb{L}	







































































































































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max. Earth dist.	9279 Aug 06 06:17	18°♎07'08	1.33230 AU		9280 Jun 10 13:30	0°♎	
asc. node	9279 Aug 07 22:58	21°♎39'01			9280 Jul 02 06:12	0°♎	
				morning set	9280 Jul 14 17:25	21°♎43'38	
superior conj	9279 Aug 09 19:00	25°♎31'48	0°18'19	max. Earth dist.	9280 Jul 18 17:40	29°♎25'30	1.34745 AU
minimum elong	9279 Aug 09 18:06	25°♎27'01	0°17'56		9280 Jul 19 00:42	0°♎	
	9279 Aug 11 21:07	0°♎					
evening rise	9279 Aug 16 21:59	10°♎48'02		superior conj	9280 Jul 23 16:43	9°♎24'26	-0°11'16
	9279 Aug 26 18:06	0°♎		minimum elong	9280 Jul 23 17:22	9°♎27'46	0°11'23
evening max el	9279 Sep 07 07:58	15°♎45'40	22°20'45	behind sun begin	9280 Jul 23 13:10	9°♎06'08	
desc. node	9279 Sep 11 06:19	19°♎03'27		behind sun end	9280 Jul 23 21:35	9°♎49'26	
retrograde	9279 Sep 20 05:56	22°♎11'52		asc. node	9280 Jul 24 19:54	11°♎44'48	
evening set	9279 Sep 23 12:55	21°♎47'57		evening rise	9280 Jul 31 07:03	25°♎15'13	
min. Earth dist.	9279 Oct 01 14:14	18°♎15'10	0.54908 AU		9280 Aug 02 14:27	0°♎	
inferior conj	9279 Oct 02 11:16	17°♎45'32	-5°18'37	evening max el	9280 Aug 19 04:59	26°♎17'18	20°50'17
minimum elong	9279 Oct 02 04:28	17°♎55'07	5°17'33		9280 Aug 23 21:27	0°♎	
morning rise	9279 Oct 10 21:44	13°♎58'12		desc. node	9280 Aug 28 03:29	1°♎43'42	
direct	9279 Oct 14 05:04	13°♎33'41		retrograde	9280 Aug 30 18:15	2°♎00'56	
morning max el	9279 Oct 25 22:06	19°♎04'02	21°21'53	evening set	9280 Sep 01 22:53	1°♎49'23	
asc. node	9279 Nov 03 22:56	0°♎31'12			9280 Sep 07 05:42	30°♎	
	9279 Nov 03 14:59	0°♎		inferior conj	9280 Sep 11 03:38	27°♎52'59	-4°02'26
morning set	9279 Nov 15 01:58	21°♎25'24		minimum elong	9280 Sep 10 17:58	28°♎06'45	3°59'37
	9279 Nov 19 03:52	0°♎		min. Earth dist.	9280 Sep 11 22:57	27°♎25'26	0.54682 AU
				morning rise	9280 Sep 19 13:08	23°♎55'44	
superior conj	9279 Nov 22 08:15	6°♎40'12	1°37'00	direct	9280 Sep 23 13:02	23°♎21'31	
minimum elong	9279 Nov 22 09:35	6°♎47'08	1°37'13	morning max el	9280 Oct 06 14:43	29°♎37'48	23°03'58
max. Earth dist.	9279 Nov 26 18:43	15°♎42'19	1.35168 AU		9280 Oct 07 00:05	0°♎	
evening rise	9279 Nov 30 22:02	23°♎44'25		asc. node	9280 Oct 20 19:51	19°♎04'11	
	9279 Dec 04 07:18	0°♎			9280 Oct 26 13:08	0°♎	
desc. node	9279 Dec 08 04:51	6°♎51'31		morning set	9280 Oct 29 13:14	6°♎14'44	
	9279 Dec 23 05:12	0°♎					
evening max el	9280 Jan 05 05:49	15°♎29'24	26°35'53	superior conj	9280 Nov 05 12:38	21°♎14'58	1°40'43
retrograde	9280 Jan 18 05:58	22°♎47'12		minimum elong	9280 Nov 05 12:43	21°♎15'21	1°40'56
evening set	9280 Jan 24 16:08	20°♎13'22		max. Earth dist.	9280 Nov 08 13:03	27°♎38'57	1.33587 AU
min. Earth dist.	9280 Jan 28 18:19	16°♎03'53	0.66288 AU		9280 Nov 09 16:09	0°♎	
inferior conj	9280 Jan 30 14:29	13°♎52'18	-0°06'23	evening rise	9280 Nov 13 07:41	7°♎23'00	
minimum elong	9280 Jan 30 14:39	13°♎51'48	0°06'04	desc. node	9280 Nov 24 01:55	27°♎02'46	
transit middle	9280 Jan 30 14:39	13°♎51'48	0°06'04		9280 Nov 25 20:44	0°♎	
transit begin	9280 Jan 30 11:57	13°♎59'52		evening max el	9280 Dec 17 18:44	29°♎00'32	27°16'24
transit end	9280 Jan 30 17:21	13°♎43'45			9280 Dec 18 20:17	0°♎	
asc. node	9280 Jan 30 22:10	13°♎29'24		retrograde	9280 Dec 31 06:28	6°♎22'25	
morning rise	9280 Feb 05 14:08	8°♎10'45		evening set	9281 Jan 07 02:08	3°♎47'31	
direct	9280 Feb 08 12:54	7°♎22'15		min. Earth dist.	9281 Jan 10 23:01	0°♎11'14	0.64811 AU
morning max el	9280 Feb 15 01:07	10°♎51'24	18°23'02		9281 Jan 11 03:14	30°♎	
	9280 Feb 28 18:37	0°♎		inferior conj	9281 Jan 13 06:49	27°♎39'07	-1°10'27
desc. node	9280 Mar 05 04:36	8°♎36'52		minimum elong	9281 Jan 13 08:57	27°♎33'17	1°09'17
morning set	9280 Mar 05 22:13	9°♎47'06		asc. node	9281 Jan 16 19:15	24°♎07'05	
	9280 Mar 18 16:58	0°♎		morning rise	9281 Jan 19 17:21	22°♎10'39	
				direct	9281 Jan 22 07:28	21°♎35'40	
superior conj	9280 Mar 21 15:22	4°♎35'44	-1°42'37	morning max el	9281 Jan 28 17:33	24°♎57'45	17°56'28
minimum elong	9280 Mar 21 05:48	3°♎58'19	1°41'45		9281 Feb 01 22:38	0°♎	
max. Earth dist.	9280 Mar 22 11:19	5°♎53'50	1.45582 AU	morning set	9281 Feb 15 05:40	21°♎08'21	
evening rise	9280 Apr 06 13:15	29°♎31'36		desc. node	9281 Feb 20 01:28	29°♎07'56	
	9280 Apr 06 20:28	0°♎			9281 Feb 20 14:08	0°♎	
greatest brilliancy	9280 Apr 16 16:39	15°♎25'03	-0.8m				
	9280 Apr 26 22:33	0°♎		superior conj	9281 Mar 01 03:52	13°♎52'23	-1°03'18
asc. node	9280 Apr 27 20:44	1°♎04'47		minimum elong	9281 Feb 28 20:44	13°♎23'57	1°02'17
evening max el	9280 Apr 29 05:38	2°♎32'59	19°01'35	max. Earth dist.	9281 Mar 05 06:41	20°♎23'34	1.45236 AU
retrograde	9280 May 06 01:38	6°♎21'55			9281 Mar 11 10:17	0°♎	
evening set	9280 May 09 11:44	5°♎13'58		evening rise	9281 Mar 17 05:39	8°♎58'06	
inferior conj	9280 May 14 23:56	29°♎28'24	3°20'40		9281 Mar 31 02:51	0°♎	
minimum elong	9280 May 15 00:11	29°♎27'36	3°20'24	greatest brilliancy	9281 Mar 31 17:39	0°♎54'21	-0.6m
	9280 May 14 14:00	30°♎		evening max el	9281 Apr 12 10:49	16°♎12'06	19°53'48
min. Earth dist.	9280 May 16 14:32	27°♎25'34	0.66217 AU	asc. node	9281 Apr 14 17:51	18°♎17'09	
morning rise	9280 May 20 12:07	23°♎08'57		retrograde	9281 Apr 19 23:45	20°♎32'16	
direct	9280 May 26 20:08	20°♎23'51		evening set	9281 Apr 23 18:25	19°♎09'11	
desc. node	9280 Jun 01 04:40	21°♎59'06		inferior conj	9281 Apr 29 02:48	13°♎09'34	3°16'59

minimum elong	9281 Apr 29 01:55	13° 8 12'30	3°16'43	min. Earth dist.	9282 Apr 13 20:02	26° Y 26'05	0.68198 AU
min. Earth dist.	9281 Apr 30 02:47	11° 8 48'57	0.67431 AU	morning rise	9282 Apr 18 13:05	20° Y 46'53	
morning rise	9281 May 04 09:07	6° 8 51'07		direct	9282 Apr 23 21:00	18° Y 25'37	
direct	9281 May 10 06:05	4° 8 14'00		morning max el	9282 May 04 12:43	24° Y 46'55	23°36'40
desc. node	9281 May 19 01:36	8° 8 29'13		desc. node	9282 May 05 22:32	26° Y 15'11	
morning max el	9281 May 22 03:30	11° 8 22'14	25°05'26		9282 May 09 05:20	0° 8	
	9281 Jun 06 00:28	0° II			9282 May 30 11:32	0° II	
	9281 Jun 24 22:57	0° ☾		morning set	9282 Jun 08 17:00	15° II 02'37	
morning set	9281 Jun 27 03:58	3° ☾ 54'00		max. Earth dist.	9282 Jun 12 14:54	21° II 47'37	1.38921 AU
max. Earth dist.	9281 Jun 30 18:40	10° ☾ 28'26	1.36693 AU		9282 Jun 17 04:49	0° ☾	
superior conj	9281 Jul 07 04:41	22° ☾ 45'18	-0°43'17	superior conj	9282 Jun 20 03:17	5° ☾ 26'10	-1°15'36
minimum elong	9281 Jul 07 07:22	22° ☾ 58'35	0°43'03	minimum elong	9282 Jun 20 08:07	5° ☾ 48'52	1°15'09
	9281 Jul 10 19:50	0° Ω		asc. node	9282 Jun 28 13:52	21° ☾ 39'41	
asc. node	9281 Jul 11 16:52	1° Ω 46'12		evening rise	9282 Jun 29 08:49	23° ☾ 11'53	
evening rise	9281 Jul 15 11:33	9° Ω 25'25			9282 Jul 02 21:38	0° Ω	
	9281 Jul 26 16:44	0° ♊		evening max el	9282 Jul 15 14:11	19° Ω 30'00	18°46'41
evening max el	9281 Aug 01 15:27	7° ♊ 31'17	19°38'04	retrograde	9282 Jul 23 21:12	23° Ω 37'24	
retrograde	9281 Aug 11 11:40	12° ♊ 23'22		evening set	9282 Jul 25 20:50	23° Ω 24'06	
evening set	9281 Aug 13 07:57	12° ♊ 13'51		desc. node	9282 Aug 01 21:46	19° Ω 47'33	
desc. node	9281 Aug 15 00:39	11° ♊ 49'20		inferior conj	9282 Aug 02 22:25	19° Ω 03'02	-0°18'51
inferior conj	9281 Aug 22 03:44	8° ♊ 10'20	-2°11'19	minimum elong	9282 Aug 02 21:39	19° Ω 04'27	0°18'46
minimum elong	9281 Aug 21 21:47	8° ♊ 19'41	2°09'12	min. Earth dist.	9282 Aug 06 02:08	16° Ω 45'49	0.56964 AU
min. Earth dist.	9281 Aug 24 10:30	6° ♊ 44'30	0.55415 AU	morning rise	9282 Aug 10 19:05	13° Ω 59'54	
morning rise	9281 Aug 30 09:24	3° ♊ 44'10		direct	9282 Aug 16 09:58	12° Ω 43'11	
direct	9281 Sep 04 04:37	2° ♊ 52'48		morning max el	9282 Aug 30 16:59	20° Ω 09'52	26°23'04
morning max el	9281 Sep 18 02:38	9° ♊ 49'32	24°50'00		9282 Sep 08 03:34	0° ♊	
	9281 Oct 03 04:35	0° ♊		asc. node	9282 Sep 24 13:41	27° ♊ 38'39	
asc. node	9281 Oct 07 16:45	8° ♊ 09'24			9282 Sep 25 17:37	0° ♊	
morning set	9281 Oct 14 00:58	21° ♊ 02'28		morning set	9282 Sep 28 11:33	5° ♊ 44'19	
	9281 Oct 18 03:57	0° ♊		superior conj	9282 Oct 05 08:47	20° ♊ 49'31	1°29'41
superior conj	9281 Oct 20 21:31	6° ♊ 00'10	1°38'05	minimum elong	9282 Oct 05 06:58	20° ♊ 39'26	1°29'36
minimum elong	9281 Oct 20 20:30	5° ♊ 54'34	1°38'12	max. Earth dist.	9282 Oct 05 23:06	22° ♊ 08'57	1.31773 AU
max. Earth dist.	9281 Oct 22 15:13	9° ♊ 47'51	1.32449 AU		9282 Oct 09 12:51	0° ♊	
evening rise	9281 Oct 28 03:30	21° ♊ 27'52		evening rise	9282 Oct 12 06:36	5° ♊ 51'24	
	9281 Nov 01 10:41	0° ♊			9282 Oct 25 00:39	0° ♊	
desc. node	9281 Nov 10 23:02	16° ♊ 50'58		desc. node	9282 Oct 28 20:10	6° ♊ 06'49	
	9281 Nov 19 19:15	0° ♊		evening max el	9282 Nov 12 12:46	24° ♊ 34'31	27°10'59
evening max el	9281 Nov 30 05:53	12° ♊ 06'36	27°29'54		9282 Nov 19 20:23	0° ♊	
retrograde	9281 Dec 14 00:13	19° ♊ 25'00		retrograde	9282 Nov 26 09:55	1° ♊ 45'49	
evening set	9281 Dec 21 01:14	16° ♊ 57'23			9282 Dec 02 16:49	30° ♊ ♊	
min. Earth dist.	9281 Dec 24 18:32	13° ♊ 50'48	0.63018 AU	evening set	9282 Dec 03 09:54	29° ♊ 35'06	
inferior conj	9281 Dec 27 13:01	11° ♊ 08'06	-2°20'31	min. Earth dist.	9282 Dec 07 03:26	26° ♊ 50'58	0.61003 AU
minimum elong	9281 Dec 27 17:33	10° ♊ 56'58	2°18'27	inferior conj	9282 Dec 10 05:50	24° ♊ 10'31	-3°32'53
morning rise	9282 Jan 03 11:59	5° ♊ 55'39		minimum elong	9282 Dec 10 12:37	23° ♊ 55'50	3°30'19
asc. node	9282 Jan 03 16:18	5° ♊ 51'55		morning rise	9282 Dec 17 17:45	19° ♊ 17'26	
direct	9282 Jan 05 19:47	5° ♊ 30'14		direct	9282 Dec 19 22:14	18° ♊ 57'56	
morning max el	9282 Jan 12 11:00	8° ♊ 54'50	17°47'23	asc. node	9282 Dec 21 13:22	19° ♊ 09'10	
	9282 Jan 26 11:17	0° ♊		morning max el	9282 Dec 27 02:12	22° ♊ 33'43	17°56'41
morning set	9282 Jan 28 14:21	3° ♊ 42'52			9283 Jan 01 21:07	0° ♊	
desc. node	9282 Feb 06 22:23	19° ♊ 47'15		morning set	9283 Jan 11 17:35	17° ♊ 09'31	
					9283 Jan 18 19:09	0° ♊	
superior conj	9282 Feb 09 13:57	24° ♊ 12'56	-0°19'32	superior conj	9283 Jan 22 01:24	5° ♊ 45'38	0°20'33
minimum elong	9282 Feb 09 11:57	24° ♊ 04'36	0°19'01	minimum elong	9283 Jan 22 03:07	5° ♊ 53'09	0°20'32
	9282 Feb 13 02:28	0° ♊		desc. node	9283 Jan 24 19:19	10° ♊ 30'32	
max. Earth dist.	9282 Feb 16 00:15	4° ♊ 41'36	1.44191 AU	max. Earth dist.	9283 Jan 29 14:10	18° ♊ 33'02	1.42562 AU
evening rise	9282 Feb 24 17:16	18° ♊ 21'54		evening rise	9283 Feb 04 14:57	28° ♊ 17'56	
	9282 Mar 04 09:08	0° Y			9283 Feb 05 16:50	0° ♊	
evening max el	9282 Mar 26 10:34	29° Y 53'23	20°59'33		9283 Feb 26 01:40	0° Y	
	9282 Mar 26 13:12	0° 8		evening max el	9283 Mar 09 05:15	13° Y 36'11	22°15'05
asc. node	9282 Apr 01 14:58	4° 8 25'37		retrograde	9283 Mar 18 19:25	19° Y 16'49	
retrograde	9282 Apr 03 22:16	4° 8 52'13		asc. node	9283 Mar 19 12:07	19° Y 14'24	
evening set	9282 Apr 08 02:35	3° 8 13'42		evening set	9283 Mar 23 10:33	17° Y 23'03	
	9282 Apr 11 04:33	30° 8 Y		inferior conj	9283 Mar 28 18:21	11° Y 01'49	2°36'29
inferior conj	9282 Apr 13 09:38	27° Y 02'03	3°01'46	minimum elong	9283 Mar 28 16:11	11° Y 09'20	2°35'56
minimum elong	9282 Apr 13 07:56	27° Y 07'56	3°01'21				

min. Earth dist.	9283 Mar 28 16:04	11° Υ 09'45	0.68518 AU	inferior conj	9284 Mar 12 02:59	25° X 05'54	2°02'03
morning rise	9283 Apr 02 21:41	4° Υ 51'22		minimum elong	9284 Mar 12 00:49	25° X 13'23	2°01'25
direct	9283 Apr 07 15:47	2° Υ 50'47		morning rise	9284 Mar 17 08:51	19° X 01'19	
morning max el	9283 Apr 17 00:28	8° Υ 19'50	22°07'55	direct	9284 Mar 21 13:19	17° X 23'02	
desc. node	9283 Apr 22 19:27	14° Υ 55'45		morning max el	9284 Mar 29 18:09	22° X 04'14	20°46'52
	9283 May 03 20:34	0° X			9284 Apr 05 12:15	0° Υ	
morning set	9283 May 20 03:42	24° X 57'42		desc. node	9284 Apr 08 16:21	4° Υ 15'58	
	9283 May 23 05:49	0° II			9284 Apr 26 02:49	0° X	
max. Earth dist.	9283 May 25 13:51	3° II 52'57	1.41170 AU	morning set	9284 Apr 28 13:00	3° X 45'24	
				max. Earth dist.	9284 May 06 19:17	16° X 52'19	1.43149 AU
superior conj	9283 Jun 02 08:03	17° II 16'10	-1°44'48				
minimum elong	9283 Jun 02 14:09	17° II 43'13	1°44'27	superior conj	9284 May 13 14:28	28° X 05'39	-2°05'50
	9283 Jun 09 08:20	0° X		minimum elong	9284 May 13 19:06	28° X 25'06	2°05'51
evening rise	9283 Jun 12 19:18	6° X 25'29			9284 May 14 17:34	0° II	
asc. node	9283 Jun 15 10:54	11° X 20'25		evening rise	9284 May 25 14:42	18° II 56'06	
	9283 Jun 26 23:47	0° Ω			9284 May 31 21:48	0° X	
evening max el	9283 Jun 28 21:34	2° Ω 05'32	18°15'56	asc. node	9284 Jun 01 07:57	0° X 43'24	
retrograde	9283 Jul 06 02:06	5° Ω 42'46		evening max el	9284 Jun 11 09:44	15° X 08'40	18°04'54
evening set	9283 Jul 08 08:49	5° Ω 21'40		retrograde	9284 Jun 17 23:20	18° X 31'15	
inferior conj	9283 Jul 15 14:54	0° Ω 39'53	1°12'38	evening set	9284 Jun 20 13:40	17° X 59'18	
minimum elong	9283 Jul 15 17:09	0° Ω 35'03	1°11'37	inferior conj	9284 Jun 27 03:03	12° X 57'43	2°17'03
	9283 Jul 16 09:26	30° X		minimum elong	9284 Jun 27 05:58	12° X 50'30	2°15'59
min. Earth dist.	9283 Jul 18 23:54	27° X 47'58	0.59031 AU	min. Earth dist.	9284 Jun 30 05:59	9° X 53'59	0.61291 AU
desc. node	9283 Jul 19 18:52	27° X 10'24		morning rise	9284 Jul 03 19:52	6° X 57'40	
morning rise	9283 Jul 22 22:16	25° X 03'16		desc. node	9284 Jul 05 15:58	5° X 52'55	
direct	9283 Jul 29 04:53	23° X 16'17		direct	9284 Jul 10 11:36	4° X 41'51	
	9283 Aug 11 11:08	0° Ω		morning max el	9284 Jul 24 17:41	12° X 42'13	27°55'35
morning max el	9283 Aug 12 13:56	1° Ω 03'53	27°27'55		9284 Aug 07 11:28	0° Ω	
	9283 Sep 02 08:21	0° X			9284 Aug 24 17:10	0° X	
asc. node	9283 Sep 11 10:38	17° X 25'01		morning set	9284 Aug 26 22:19	4° X 29'38	
morning set	9283 Sep 12 19:20	20° X 15'24		asc. node	9284 Aug 28 07:33	7° X 22'20	
	9283 Sep 17 07:41	0° Ω		max. Earth dist.	9284 Sep 01 17:17	16° X 49'36	1.31817 AU
superior conj	9283 Sep 19 20:33	5° Ω 37'03	1°15'56	superior conj	9284 Sep 03 06:59	20° X 16'32	0°57'10
minimum elong	9283 Sep 19 18:20	5° Ω 24'45	1°15'38	minimum elong	9284 Sep 03 04:51	20° X 04'46	0°56'43
max. Earth dist.	9283 Sep 19 09:08	4° Ω 33'39	1.31557 AU		9284 Sep 07 16:51	0° Ω	
evening rise	9283 Sep 26 14:34	20° Ω 26'28		evening rise	9284 Sep 10 01:15	5° Ω 06'12	
	9283 Oct 01 05:38	0° X			9284 Sep 23 02:03	0° X	
desc. node	9283 Oct 15 17:18	24° X 37'35		desc. node	9284 Oct 01 14:28	12° X 04'39	
	9283 Oct 19 19:23	0° X		evening max el	9284 Oct 06 03:56	17° X 00'45	24°56'10
evening max el	9283 Oct 25 12:30	6° X 13'20	26°18'07	retrograde	9284 Oct 20 00:13	23° X 58'58	
retrograde	9283 Nov 08 10:26	13° X 18'14		evening set	9284 Oct 25 14:01	22° X 48'53	
evening set	9283 Nov 14 23:44	11° X 34'09		min. Earth dist.	9284 Oct 30 15:23	20° X 05'38	0.56944 AU
min. Earth dist.	9283 Nov 19 01:39	8° X 59'38	0.58903 AU	inferior conj	9284 Nov 02 09:44	18° X 17'17	-5°28'00
inferior conj	9283 Nov 22 05:45	6° X 36'57	-4°39'54	minimum elong	9284 Nov 02 14:26	18° X 09'34	5°27'17
minimum elong	9283 Nov 22 13:18	6° X 22'44	4°37'48	morning rise	9284 Nov 10 17:08	14° X 09'15	
morning rise	9283 Nov 30 05:18	2° X 06'16		direct	9284 Nov 13 04:11	13° X 52'06	
direct	9283 Dec 02 10:30	1° X 49'28		morning max el	9284 Nov 22 11:28	18° X 18'06	19°16'40
asc. node	9283 Dec 08 10:25	4° X 00'33		asc. node	9284 Nov 24 07:26	20° X 13'01	
morning max el	9283 Dec 10 11:37	5° X 45'20	18°25'51		9284 Dec 01 03:30	0° X	
	9283 Dec 25 18:47	0° X		morning set	9284 Dec 09 10:50	15° X 37'17	
morning set	9283 Dec 26 09:49	1° X 11'59			9284 Dec 16 16:20	0° X	
superior conj	9284 Jan 04 11:12	18° X 22'06	0°52'52	superior conj	9284 Dec 17 14:17	1° X 46'58	1°16'28
minimum elong	9284 Jan 04 14:23	18° X 36'46	0°52'41	minimum elong	9284 Dec 17 17:19	2° X 01'41	1°16'24
	9284 Jan 10 23:03	0° \approx		max. Earth dist.	9284 Dec 24 05:00	14° X 13'06	1.38346 AU
desc. node	9284 Jan 11 16:16	1° \approx 14'35		evening rise	9284 Dec 27 23:01	20° X 53'26	
max. Earth dist.	9284 Jan 11 23:17	1° \approx 44'46	1.40534 AU	desc. node	9284 Dec 28 13:15	21° X 55'11	
evening rise	9284 Jan 16 08:09	9° \approx 07'12			9285 Jan 02 08:14	0° \approx	
	9284 Jan 29 16:57	0° X			9285 Jan 22 17:47	0° X	
evening max el	9284 Feb 19 20:15	27° X 21'19	23°35'07	evening max el	9285 Feb 01 09:34	11° X 09'03	24°53'28
	9284 Feb 22 17:18	0° Υ		retrograde	9285 Feb 13 04:28	18° X 00'48	
retrograde	9284 Mar 01 13:52	3° Υ 41'32		evening set	9285 Feb 18 19:40	15° X 40'05	
asc. node	9284 Mar 05 09:16	2° Υ 31'35		asc. node	9285 Feb 20 06:25	14° X 17'20	
evening set	9284 Mar 06 16:46	1° Υ 33'18		min. Earth dist.	9285 Feb 23 07:54	10° X 35'58	0.67884 AU
	9284 Mar 08 07:01	30° X		inferior conj	9285 Feb 24 09:43	9° X 10'47	1°18'51
min. Earth dist.	9284 Mar 11 12:46	25° X 54'38	0.68407 AU	minimum elong	9285 Feb 24 08:00	9° X 16'28	1°18'20

morning rise	9285 Mar 01 20:35	3°  13'29		min. Earth dist.	9286 Feb 06 23:14	25°  08'58	0.66975 AU
direct	9285 Mar 05 12:23	1°  56'38		asc. node	9286 Feb 07 03:32	24°  55'46	
morning max el	9285 Mar 12 19:32	6°  00'22	19°38'37	inferior conj	9286 Feb 08 12:36	23°  12'43	0°27'09
greatest brilliancy	9285 Mar 25 12:18	22°  33'05	-0.7m	minimum elong	9286 Feb 08 11:54	23°  14'53	0°27'04
desc. node	9285 Mar 26 13:13	24°  04'55		morning rise	9286 Feb 14 06:54	17°  24'29	
	9285 Mar 30 12:08	0°  Y		direct	9286 Feb 17 11:24	16°  26'34	
morning set	9285 Apr 07 11:01	12°  Y08'22		morning max el	9286 Feb 24 04:20	20°  05'02	18°45'49
	9285 Apr 18 21:55	0°  8			9286 Mar 04 01:02	0°  X	
max. Earth dist.	9285 Apr 19 07:17	0°  837'04	1.44624 AU	desc. node	9286 Mar 13 10:04	14°  X14'44	
				morning set	9286 Mar 17 21:46	21°  X15'18	
superior conj	9285 Apr 23 20:22	7°  852'16	-2°12'19		9286 Mar 23 11:57	0°  Y	
minimum elong	9285 Apr 23 19:21	7°  848'09	2°12'29	max. Earth dist.	9286 Apr 02 00:24	14°  Y53'06	1.45446 AU
	9285 May 07 06:21	0°  II					
evening rise	9285 May 07 14:13	0°  II33'08		superior conj	9286 Apr 03 06:44	16°  Y51'57	-1°59'08
asc. node	9285 May 19 05:01	19°  II42'19		minimum elong	9286 Apr 02 22:51	16°  Y21'02	1°58'43
evening max el	9285 May 25 23:19	28°  II30'59	18°12'49		9286 Apr 11 14:32	0°  8	
	9285 May 27 15:30	0°  ☿		evening rise	9286 Apr 18 14:12	11°  810'17	
retrograde	9285 Jun 01 08:18	1°  ☿53'16		greatest brilliancy	9286 Apr 25 07:57	22°  800'43	-0.9m
evening set	9285 Jun 04 06:11	1°  ☿08'18			9286 Apr 30 09:48	0°  II	
	9285 Jun 06 00:37	30°  RII		asc. node	9286 May 06 02:06	8°  II08'23	
inferior conj	9285 Jun 10 06:51	25°  II48'37	2°56'49	evening max el	9286 May 09 11:20	12°  II03'58	18°38'51
minimum elong	9285 Jun 10 09:03	25°  II42'29	2°56'08	retrograde	9286 May 16 00:50	15°  II39'18	
min. Earth dist.	9285 Jun 12 21:19	22°  II55'46	0.63457 AU	evening set	9286 May 19 06:24	14°  II39'56	
morning rise	9285 Jun 16 10:27	19°  II35'38		inferior conj	9286 May 24 22:11	9°  II03'31	3°16'37
desc. node	9285 Jun 22 13:00	17°  II00'27		minimum elong	9286 May 24 23:09	9°  II00'32	3°16'16
direct	9285 Jun 23 04:05	16°  II59'09		min. Earth dist.	9286 May 26 21:36	6°  II39'09	0.65331 AU
morning max el	9285 Jul 07 02:06	25°  II02'11	27°45'09	morning rise	9286 May 30 15:09	2°  II45'12	
	9285 Jul 11 14:35	0°  ☿			9286 Jun 05 22:23	30°  R8	
	9285 Jul 31 22:37	0°  Ω		direct	9286 Jun 06 04:13	29°  859'47	
morning set	9285 Aug 10 18:18	18°  Ω21'13			9286 Jun 06 10:05	0°  II	
asc. node	9285 Aug 15 04:28	27°  Ω26'22		desc. node	9286 Jun 09 10:01	0°  II34'43	
max. Earth dist.	9285 Aug 15 19:41	28°  Ω46'44	1.32569 AU	morning max el	9286 Jun 19 12:24	7°  II52'38	27°01'29
	9285 Aug 16 09:30	0°  ൬			9286 Jul 06 16:04	0°  ☿	
					9286 Jul 24 07:08	0°  Ω	
superior conj	9285 Aug 18 14:15	4°  ൬43'02	0°33'44	morning set	9286 Jul 25 04:22	1°  Ω41'32	
minimum elong	9285 Aug 18 12:44	4°  ൬34'48	0°33'17	max. Earth dist.	9286 Jul 29 12:54	10°  Ω17'37	1.33818 AU
evening rise	9285 Aug 25 12:50	19°  ൬45'37		asc. node	9286 Aug 02 01:23	17°  Ω32'25	
	9285 Aug 30 11:49	0°  ☿					
evening max el	9285 Sep 17 14:56	27°  ☿15'12	23°17'56	superior conj	9286 Aug 02 16:09	18°  Ω49'45	0°06'10
desc. node	9285 Sep 18 11:36	28°  ☿03'51		minimum elong	9286 Aug 02 15:50	18°  Ω48'06	0°05'54
	9285 Sep 20 19:08	0°  ൬		behind sun begin	9286 Aug 02 10:33	18°  Ω20'21	
retrograde	9285 Oct 01 01:28	3°  ൬57'44		behind sun end	9286 Aug 02 21:07	19°  Ω15'53	
evening set	9285 Oct 05 04:39	3°  ൬20'29			9286 Aug 07 22:29	0°  ൬	
min. Earth dist.	9285 Oct 12 00:32	0°  ൬09'59	0.55442 AU	evening rise	9286 Aug 09 23:21	4°  ൬18'37	
	9285 Oct 12 07:24	30°  R☿			9286 Aug 24 00:57	0°  ☿	
inferior conj	9285 Oct 13 17:49	29°  ☿09'34	-5°37'37	evening max el	9286 Aug 30 05:57	7°  ☿30'37	21°40'26
minimum elong	9285 Oct 13 15:22	29°  ☿13'10	5°37'22	desc. node	9286 Sep 05 08:45	12°  ☿05'04	
morning rise	9285 Oct 22 04:04	25°  ☿18'04		retrograde	9286 Sep 11 15:33	13°  ☿39'58	
direct	9285 Oct 25 02:42	24°  ☿57'13		evening set	9286 Sep 14 09:15	13°  ☿23'01	
	9285 Nov 04 21:23	0°  ൬		inferior conj	9286 Sep 23 12:15	9°  ☿25'09	-4°52'27
morning max el	9285 Nov 04 22:36	0°  ൬02'51	20°30'06	minimum elong	9286 Sep 23 03:18	9°  ☿37'40	4°50'29
asc. node	9285 Nov 11 04:24	7°  ൬31'04		min. Earth dist.	9286 Sep 23 08:26	9°  ☿30'30	0.54697 AU
morning set	9285 Nov 23 17:36	0°  ☿16'43		morning rise	9286 Oct 01 22:26	5°  ☿36'02	
	9285 Nov 23 14:20	0°  ☿		direct	9286 Oct 05 12:46	5°  ☿07'48	
				morning max el	9286 Oct 17 20:39	10°  ☿58'08	22°03'56
superior conj	9285 Dec 01 05:59	15°  ☿46'51	1°31'42	asc. node	9286 Oct 29 01:20	25°  ☿40'12	
minimum elong	9285 Dec 01 08:03	15°  ☿57'16	1°31'50		9286 Oct 31 12:58	0°  ൬	
max. Earth dist.	9285 Dec 06 12:16	26°  ☿12'28	1.36250 AU	morning set	9286 Nov 08 03:46	15°  ൬03'56	
	9285 Dec 08 12:05	0°  ☿					
evening rise	9285 Dec 10 09:26	3°  ☿30'48		superior conj	9286 Nov 15 06:35	0°  ☿11'05	1°39'23
desc. node	9285 Dec 15 10:15	12°  ☿28'21		minimum elong	9286 Nov 15 07:23	0°  ☿15'16	1°39'37
	9285 Dec 26 07:43	0°  ☿			9286 Nov 15 04:29	0°  ☿	
evening max el	9286 Jan 14 22:48	24°  ☿57'01	26°02'58	max. Earth dist.	9286 Nov 19 02:05	8°  ☿05'51	1.34444 AU
	9286 Jan 21 04:25	0°  X		evening rise	9286 Nov 23 11:40	16°  ☿49'44	
retrograde	9286 Jan 27 14:08	2°  X08'37			9286 Nov 30 15:56	0°  ☿	
	9286 Feb 02 06:47	30°  R☿		desc. node	9286 Dec 02 07:17	2°  ☿49'20	
evening set	9286 Feb 02 17:33	29°  ☿38'32			9286 Dec 20 17:24	0°  ☿	

evening max el	9286 Dec 28 12:18	8° \approx 38'12	26°56'11	evening set	9287 Dec 31 14:14	26° \approx 347'44	
retrograde	9287 Jan 10 18:03	15° \approx 58'17		min. Earth dist.	9288 Jan 04 09:19	23° \approx 24'56	0.64081 AU
evening set	9287 Jan 17 08:32	13° \approx 23'31		inferior conj	9288 Jan 06 21:52	20° \approx 347'06	-1°39'36
min. Earth dist.	9287 Jan 21 08:28	9° \approx 28'11	0.65697 AU	minimum elong	9288 Jan 07 01:00	20° \approx 338'56	1°38'01
inferior conj	9287 Jan 23 09:30	7° \approx 07'09	-0°32'38	asc. node	9288 Jan 11 21:43	16° \approx 318'04	
minimum elong	9287 Jan 23 10:26	7° \approx 04'28	0°32'00	morning rise	9288 Jan 13 13:32	15° \approx 325'06	
asc. node	9287 Jan 25 00:37	5° \approx 17'05		direct	9288 Jan 16 00:47	14° \approx 354'30	
morning rise	9287 Jan 29 13:30	1° \approx 30'33		morning max el	9288 Jan 22 11:59	18° \approx 316'14	17°50'33
direct	9287 Feb 01 08:26	0° \approx 48'08			9288 Jan 31 02:47	0° \approx	
morning max el	9287 Feb 07 18:44	4° \approx 13'00	18°09'40	morning set	9288 Feb 08 07:32	13° \approx 43'17	
	9287 Feb 25 09:52	0° \approx		desc. node	9288 Feb 15 03:51	25° \approx 15'00	
morning set	9287 Feb 26 12:34	1° \approx 48'15			9288 Feb 18 00:49	0° \approx	
desc. node	9287 Feb 28 06:57	4° \approx 39'54					
				superior conj	9288 Feb 21 09:29	5° \approx 38'42	-0°44'43
superior conj	9287 Mar 13 12:58	25° \approx 47'55	-1°27'10	minimum elong	9288 Feb 21 04:31	5° \approx 38'36	0°43'52
minimum elong	9287 Mar 13 03:43	25° \approx 11'35	1°26'07	max. Earth dist.	9288 Feb 26 15:50	13° \approx 54'07	1.44873 AU
max. Earth dist.	9287 Mar 15 20:21	29° \approx 25'15	1.45532 AU		9288 Mar 07 23:53	0° \approx	
	9287 Mar 16 05:14	0° \approx		evening rise	9288 Mar 08 04:31	0° \approx 17'47	
evening rise	9287 Mar 29 16:00	20° \approx 56'48			9288 Mar 28 06:29	0° \approx	
	9287 Apr 04 12:06	0° \approx		evening max el	9288 Apr 04 22:27	9° \approx 22'45	20°20'11
greatest brilliancy	9287 Apr 10 20:39	9° \approx 43'54	-0.7m	asc. node	9288 Apr 08 20:19	12° \approx 39'04	
asc. node	9287 Apr 22 23:11	25° \approx 51'40		retrograde	9288 Apr 12 20:20	13° \approx 58'37	
evening max el	9287 Apr 22 19:33	25° \approx 42'33	19°21'53	evening set	9288 Apr 16 19:02	12° \approx 28'45	
retrograde	9287 Apr 29 21:42	29° \approx 43'05		inferior conj	9288 Apr 22 02:33	6° \approx 23'31	3°11'48
evening set	9287 May 03 11:26	28° \approx 28'35		minimum elong	9288 Apr 22 01:17	6° \approx 27'50	3°11'30
inferior conj	9287 May 08 21:41	22° \approx 36'51	3°20'36	min. Earth dist.	9288 Apr 22 20:31	5° \approx 22'10	0.67817 AU
minimum elong	9287 May 08 21:26	22° \approx 37'42	3°20'22	morning rise	9288 Apr 27 07:19	0° \approx 06'20	
min. Earth dist.	9287 May 10 05:55	20° \approx 51'37	0.66801 AU		9288 Apr 27 10:09	30° \approx 31'31	
morning rise	9287 May 14 07:03	16° \approx 17'45		direct	9288 May 02 22:48	27° \approx 35'31	
direct	9287 May 20 10:46	13° \approx 35'02			9288 May 09 06:06	0° \approx	
desc. node	9287 May 27 07:00	16° \approx 09'53		desc. node	9288 May 13 03:57	3° \approx 15'31	
morning max el	9287 Jun 01 22:38	21° \approx 03'09	25°52'37	morning max el	9288 May 14 08:08	4° \approx 24'47	24°28'16
	9287 Jun 09 16:13	0° \approx			9288 Jun 02 23:33	0° \approx	
	9287 Jun 29 20:40	0° \approx		morning set	9288 Jun 19 02:59	26° \approx 107'18	
morning set	9287 Jul 08 00:50	14° \approx 20'56			9288 Jun 21 07:41	0° \approx	
max. Earth dist.	9287 Jul 11 19:41	21° \approx 27'21	1.35539 AU	max. Earth dist.	9288 Jun 22 18:19	2° \approx 35'39	1.37626 AU
	9287 Jul 16 04:19	0° \approx					
				superior conj	9288 Jun 29 16:56	15° \approx 35'14	-0°57'07
superior conj	9287 Jul 17 10:07	2° \approx 29'50	-0°24'40	minimum elong	9288 Jun 29 20:34	15° \approx 52'48	0°56'47
minimum elong	9287 Jul 17 11:35	2° \approx 37'17	0°24'38	asc. node	9288 Jul 05 19:19	27° \approx 35'39	
asc. node	9287 Jul 19 22:20	7° \approx 36'47			9288 Jul 07 00:16	0° \approx	
evening rise	9287 Jul 25 06:47	18° \approx 39'27		evening rise	9288 Jul 08 08:39	2° \approx 41'18	
	9287 Jul 30 23:51	0° \approx		evening max el	9288 Jul 25 00:30	29° \approx 52'10	19°13'32
evening max el	9287 Aug 12 08:30	18° \approx 18'29	20°16'57		9288 Jul 25 03:41	0° \approx	
retrograde	9287 Aug 23 04:10	23° \approx 40'05		retrograde	9288 Aug 03 04:03	4° \approx 24'18	
desc. node	9287 Aug 23 05:54	23° \approx 40'04		evening set	9288 Aug 05 00:45	4° \approx 13'48	
evening set	9287 Aug 25 03:31	23° \approx 30'10		desc. node	9288 Aug 09 03:03	2° \approx 45'25	
inferior conj	9287 Sep 03 06:06	19° \approx 32'10	-3°17'26	inferior conj	9288 Aug 13 13:22	0° \approx 03'18	-1°22'01
minimum elong	9287 Sep 02 21:27	19° \approx 44'52	3°14'35	minimum elong	9288 Aug 13 09:44	0° \approx 09'21	1°20'47
min. Earth dist.	9287 Sep 04 17:45	18° \approx 39'46	0.54885 AU		9288 Aug 13 15:20	30° \approx 31'31	
morning rise	9287 Sep 11 14:33	15° \approx 24'53		min. Earth dist.	9288 Aug 16 06:51	28° \approx 14'18	0.55986 AU
direct	9287 Sep 15 22:34	14° \approx 44'26		morning rise	9288 Aug 21 15:50	25° \approx 21'29	
morning max el	9287 Sep 29 10:10	21° \approx 18'10	23°49'43	direct	9288 Aug 26 19:20	24° \approx 20'35	
	9287 Oct 06 22:21	0° \approx			9288 Sep 08 06:25	0° \approx	
asc. node	9287 Oct 15 22:16	14° \approx 28'06		morning max el	9288 Sep 09 22:41	1° \approx 31'19	25°32'19
morning set	9287 Oct 23 15:25	29° \approx 53'04			9288 Sep 29 20:13	0° \approx	
	9287 Oct 23 16:43	0° \approx		asc. node	9288 Oct 01 19:12	3° \approx 44'56	
				morning set	9288 Oct 07 02:54	14° \approx 39'33	
superior conj	9287 Oct 30 13:07	14° \approx 50'44	1°40'20				
minimum elong	9287 Oct 30 12:42	14° \approx 48'27	1°40'32	superior conj	9288 Oct 13 23:18	29° \approx 38'56	1°35'12
max. Earth dist.	9287 Nov 02 00:09	20° \approx 08'15	1.33044 AU	minimum elong	9288 Oct 13 21:53	29° \approx 31'12	1°35'14
	9287 Nov 06 18:01	0° \approx			9288 Oct 14 03:07	0° \approx	
evening rise	9287 Nov 07 01:59	0° \approx 40'06		max. Earth dist.	9288 Oct 15 05:13	2° \approx 23'37	1.32100 AU
desc. node	9287 Nov 19 04:21	22° \approx 51'41		evening rise	9288 Oct 21 01:15	14° \approx 53'59	
	9287 Nov 23 15:44	0° \approx			9288 Oct 28 18:36	0° \approx	
evening max el	9287 Dec 11 00:48	22° \approx 00'17	27°25'55	desc. node	9288 Nov 05 01:28	12° \approx 27'40	
retrograde	9287 Dec 24 15:29	29° \approx 20'41			9288 Nov 17 19:22	0° \approx	

evening max el	9288 Nov 22 10:14	4°  50'47	27°25'57	desc. node	9289 Oct 22 22:36	1°  25'57	
retrograde	9288 Dec 06 05:57	12°  06'48		evening max el	9289 Nov 04 14:10	16°  57'54	26°52'29
evening set	9288 Dec 13 07:40	9°  44'43		retrograde	9289 Nov 18 12:18	24°  07'12	
min. Earth dist.	9288 Dec 17 00:14	6°  49'12	0.62181 AU	evening set	9289 Nov 25 08:55	22°  06'37	
inferior conj	9288 Dec 19 22:46	4°  30'26	-2°51'19	min. Earth dist.	9289 Nov 29 04:34	19°  28'22	0.60102 AU
minimum elong	9288 Dec 20 04:20	3°  52'28	2°48'56	inferior conj	9289 Dec 02 08:46	16°  53'13	-4°02'41
	9288 Dec 25 00:44	30°  R 		minimum elong	9289 Dec 02 16:10	16°  53'05	4°00'10
morning rise	9288 Dec 27 03:19	29°  51'12		morning rise	9289 Dec 10 01:58	12°  51'32	
asc. node	9288 Dec 28 18:47	28°  40'24		direct	9289 Dec 12 06:00	11°  51'43	
direct	9288 Dec 29 09:17	28°  38'45		asc. node	9289 Dec 15 15:50	12°  53'59	
	9289 Jan 02 14:38	0° 		morning max el	9289 Dec 19 18:09	15°  35'14	18°06'35
morning max el	9289 Jan 05 04:56	2°  06'48	17°49'06		9289 Dec 29 17:56	0° 	
morning set	9289 Jan 21 00:47	26°  41'32		morning set	9290 Jan 04 10:06	10°  24'34	
	9289 Jan 22 21:20	0° 					
superior conj	9289 Feb 01 06:24	16°  20'08	-0°01'46	superior conj	9290 Jan 14 03:52	28°  21'09	0°35'19
minimum elong	9289 Feb 01 06:15	16°  19'31	0°01'31	minimum elong	9290 Jan 14 06:28	28°  32'44	0°35'11
behind sun begin	9289 Jan 31 21:30	15°  42'22			9290 Jan 15 02:04	0° 	
behind sun end	9289 Feb 01 15:00	16°  56'34		desc. node	9290 Jan 18 21:42	6°  40'08	
desc. node	9289 Feb 01 00:46	15°  56'15		max. Earth dist.	9290 Jan 21 18:59	11°  34'16	1.41727 AU
max. Earth dist.	9289 Feb 08 07:46	28°  01'19	1.43554 AU	evening rise	9290 Jan 26 23:52	20°  07'22	
	9289 Feb 09 13:11	0° 			9290 Feb 02 06:34	0° 	
evening rise	9289 Feb 15 18:39	9°  50'33			9290 Feb 23 12:46	0° 	
	9289 Mar 01 04:02	0° 		evening max el	9290 Mar 01 12:38	6°  47'21	22°49'04
evening max el	9289 Mar 18 19:47	23°  03'47	21°30'45	retrograde	9290 Mar 11 14:50	12°  45'55	
asc. node	9289 Mar 26 17:29	28°  15'28		asc. node	9290 Mar 13 14:37	12°  26'19	
retrograde	9289 Mar 27 18:37	28°  20'58		evening set	9290 Mar 16 10:44	10°  46'05	
evening set	9289 Apr 01 03:20	26°  35'53		inferior conj	9290 Mar 21 19:22	4°  21'44	2°23'01
inferior conj	9289 Apr 06 10:27	20°  19'32	2°52'13	minimum elong	9290 Mar 21 17:08	4°  29'27	2°22'24
minimum elong	9289 Apr 06 08:31	20°  26'18	2°51'45	min. Earth dist.	9290 Mar 21 12:00	4°  47'15	0.68513 AU
min. Earth dist.	9289 Apr 06 15:19	20°  02'35	0.68382 AU		9290 Mar 25 04:07	30°  R 	
morning rise	9289 Apr 11 13:30	14°  06'02		morning rise	9290 Mar 26 23:25	28°  R 	13'22
direct	9289 Apr 16 15:27	11°  53'20		direct	9290 Mar 31 11:39	26°  R 	22'03
morning max el	9289 Apr 26 18:09	17°  53'09	22°58'24		9290 Apr 07 17:45	0° 	
desc. node	9289 Apr 30 00:54	21°  26'50		morning max el	9290 Apr 09 07:57	1°  30'14	21°32'09
	9289 May 06 20:16	0° 		desc. node	9290 Apr 16 21:48	10°  25'52	
	9289 May 27 01:48	0° 			9290 Apr 30 16:42	0° 	
morning set	9289 May 31 05:21	6°  46'13		morning set	9290 May 11 04:35	16°  R 	10'37
max. Earth dist.	9289 Jun 04 14:44	14°  11'08	1.39889 AU	max. Earth dist.	9290 May 17 15:45	26°  R 	38'01 1.42055 AU
					9290 May 19 16:24	0° 	
superior conj	9289 Jun 12 08:33	27°  11'55'45	-1°28'38	superior conj	9290 May 25 04:24	9°  11'21'44	-1°55'05
minimum elong	9289 Jun 12 14:07	28°  11'21'17	1°28'11	minimum elong	9290 May 25 10:19	9°  11'47'25	1°54'52
	9289 Jun 13 11:34	0° 		evening rise	9290 Jun 05 06:33	29°  11'12'07	
evening rise	9289 Jun 22 01:52	16°  15'16			9290 Jun 05 17:02	0° 	
asc. node	9289 Jun 22 16:20	17°  24'18		asc. node	9290 Jun 09 13:22	6°  58'23	
	9289 Jun 29 12:17	0° 		evening max el	9290 Jun 21 13:24	24°  57'17	18°08'53
evening max el	9289 Jul 08 03:25	12°  07'57	18°31'06	retrograde	9290 Jun 28 10:06	28°  52'02	
retrograde	9289 Jul 15 21:57	16°  00'44		evening set	9290 Jun 30 20:08	28°  50'35	
evening set	9289 Jul 18 00:13	15°  04'41		inferior conj	9290 Jul 07 18:42	23°  51'02'29	1°43'11
inferior conj	9289 Jul 25 17:24	11°  15'09	0°23'09	minimum elong	9290 Jul 07 21:29	23°  50'41'10	1°42'02
minimum elong	9289 Jul 25 18:14	11°  13'31	0°22'36	min. Earth dist.	9290 Jul 11 02:22	20°  51'03'30	0.59996 AU
desc. node	9289 Jul 27 00:11	10°  14'37		desc. node	9290 Jul 13 21:17	17°  52'59'30	
min. Earth dist.	9289 Jul 29 01:12	8°  14'01'18	0.57798 AU	morning rise	9290 Jul 14 19:54	17°  52'22'45	
morning rise	9289 Aug 02 08:43	5°  15'56'27		direct	9290 Jul 21 07:31	15°  52'22'33	
direct	9289 Aug 08 06:53	4°  12'26'54		morning max el	9290 Aug 04 15:33	23°  51'16'33	27°44'13
morning max el	9289 Aug 22 15:44	12°  10'04'28	26°54'44		9290 Aug 10 15:48	0° 	
	9289 Sep 05 16:16	0° 			9290 Aug 29 20:43	0° 	
asc. node	9289 Sep 18 16:08	23°  17'22'05		morning set	9290 Sep 05 18:28	13°  17'41'47	
morning set	9289 Sep 21 12:30	29°  17'23		asc. node	9290 Sep 05 13:03	13°  17'13'34	
	9289 Sep 21 20:31	0° 		max. Earth dist.	9290 Sep 11 23:50	27°  17'07'59	1.31615 AU
superior conj	9289 Sep 28 11:01	14°  15'28'19	1°24'30	superior conj	9290 Sep 12 22:27	29°  17'13'12	1°08'35
minimum elong	9289 Sep 28 08:58	14°  15'17'00	1°24'18	minimum elong	9290 Sep 12 20:12	29°  17'00'46	1°08'11
max. Earth dist.	9289 Sep 28 14:15	14°  15'46'20	1.31621 AU		9290 Sep 13 06:53	0° 	
evening rise	9289 Oct 05 06:41	29°  15'23'00		evening rise	9290 Sep 19 16:03	14°  15'00'51	
	9289 Oct 05 13:40	0° 			9290 Sep 27 14:40	0° 	
	9289 Oct 21 23:45	0° 		desc. node	9290 Oct 09 19:44	19°  17'31'52	

































































































































evening max el	9290 Oct 17 10:29	28° \mathbb{M} 14'35	25°46'12		9291 Sep 21 12:31	0° \mathbb{M}	
	9290 Oct 19 09:41	0° \mathbb{A}		desc. node	9291 Sep 26 16:52	6° \mathbb{M} 25'13	
retrograde	9290 Oct 31 08:25	5° \mathbb{A} 16'29		evening max el	9291 Sep 28 23:27	8° \mathbb{M} 45'36	24°15'20
evening set	9290 Nov 06 13:07	3° \mathbb{A} 46'44		retrograde	9291 Oct 12 16:33	15° \mathbb{M} 37'59	
min. Earth dist.	9290 Nov 10 23:03	1° \mathbb{A} 10'33	0.58035 AU	evening set	9291 Oct 17 16:48	14° \mathbb{M} 42'42	
	9290 Nov 12 15:20	30° $\mathbb{R}\mathbb{M}$		min. Earth dist.	9291 Oct 23 10:13	11° \mathbb{M} 50'07	0.56237 AU
inferior conj	9290 Nov 14 00:26	29° \mathbb{M} 00'52	-5°03'43	inferior conj	9291 Oct 25 19:46	10° \mathbb{M} 21'05	-5°37'59
minimum elong	9290 Nov 14 07:20	28° \mathbb{M} 48'37	5°02'10	minimum elong	9291 Oct 25 21:49	10° \mathbb{M} 17'53	5°37'43
morning rise	9290 Nov 22 03:53	24° \mathbb{M} 39'38		morning rise	9291 Nov 03 04:55	6° \mathbb{M} 21'14	
direct	9290 Nov 24 10:49	24° \mathbb{M} 23'04		direct	9291 Nov 05 20:32	6° \mathbb{M} 02'45	
asc. node	9290 Dec 02 12:53	28° \mathbb{M} 05'11		morning max el	9291 Nov 15 18:31	10° \mathbb{M} 44'16	19°45'08
morning max el	9290 Dec 02 23:51	28° \mathbb{M} 30'59	18°44'41	asc. node	9291 Nov 19 09:52	14° \mathbb{M} 47'46	
	9290 Dec 04 10:04	0° \mathbb{A}			9291 Nov 28 18:37	0° \mathbb{A}	
morning set	9290 Dec 19 06:30	24° \mathbb{A} 37'43		morning set	9291 Dec 03 10:20	9° \mathbb{A} 10'41	
	9290 Dec 22 00:27	0° \mathbb{B}					
superior conj	9290 Dec 27 21:34	11° \mathbb{B} 19'10	1°03'57	superior conj	9291 Dec 11 06:35	25° \mathbb{A} 00'51	1°23'54
minimum elong	9290 Dec 28 00:50	11° \mathbb{B} 34'35	1°03'49	minimum elong	9291 Dec 11 09:16	25° \mathbb{A} 14'07	1°23'56
max. Earth dist.	9291 Jan 04 02:16	24° \mathbb{B} 26'42	1.39606 AU		9291 Dec 13 19:41	0° \mathbb{B}	
desc. node	9291 Jan 05 18:38	27° \mathbb{B} 22'48		max. Earth dist.	9291 Dec 17 08:32	6° \mathbb{B} 42'45	1.37434 AU
	9291 Jan 07 07:15	0° \approx		evening rise	9291 Dec 21 02:01	13° \mathbb{B} 30'24	
evening rise	9291 Jan 08 02:21	1° \approx 20'59		desc. node	9291 Dec 23 15:37	18° \mathbb{B} 00'52	
	9291 Jan 26 14:20	0° \mathbb{H}			9291 Dec 30 21:01	0° \approx	
evening max el	9291 Feb 12 02:49	20° \mathbb{H} 33'57	24°09'16	evening max el	9292 Jan 21 13:10	0° \mathbb{H}	
retrograde	9291 Feb 23 07:36	27° \mathbb{H} 08'20			9292 Jan 25 16:03	4° \mathbb{H} 22'31	25°24'32
asc. node	9291 Feb 28 11:46	25° \mathbb{H} 02'54		retrograde	9292 Feb 06 20:00	11° \mathbb{H} 23'30	
evening set	9291 Feb 28 15:40	24° \mathbb{H} 54'43		evening set	9292 Feb 12 16:37	8° \mathbb{H} 58'14	
min. Earth dist.	9291 Mar 05 08:17	19° \mathbb{H} 30'42	0.68230 AU	asc. node	9292 Feb 15 08:53	6° \mathbb{H} 15'14	
inferior conj	9291 Mar 06 03:23	18° \mathbb{H} 26'11	1°44'48	min. Earth dist.	9292 Feb 17 01:57	4° \mathbb{H} 09'03	0.67549 AU
minimum elong	9291 Mar 06 01:20	18° \mathbb{H} 33'07	1°44'11	inferior conj	9292 Feb 18 08:42	2° \mathbb{H} 29'59	0°57'58
morning rise	9291 Mar 11 11:03	12° \mathbb{H} 24'25		minimum elong	9292 Feb 18 07:20	2° \mathbb{H} 34'22	0°57'35
direct	9291 Mar 15 10:05	10° \mathbb{H} 55'13			9292 Feb 20 08:41	30° $\mathbb{R}\approx$	
morning max el	9291 Mar 23 04:38	15° \mathbb{H} 18'46	20°16'07	morning rise	9292 Feb 23 22:27	26° \approx 36'28	
desc. node	9291 Apr 03 18:40	29° \mathbb{H} 59'01		direct	9292 Feb 27 09:19	25° \approx 27'59	
	9291 Apr 03 18:56	0° \mathbb{Y}		morning max el	9292 Mar 05 09:20	29° \approx 18'59	19°14'13
morning set	9291 Apr 20 06:20	24° \mathbb{Y} 39'09			9292 Mar 06 01:30	0° \mathbb{H}	
	9291 Apr 23 16:55	0° \mathbb{B}		greatest brilliancy	9292 Mar 18 10:30	16° \mathbb{H} 37'32	-0.7m
max. Earth dist.	9291 Apr 30 00:16	9° \mathbb{B} 58'41	1.43850 AU	desc. node	9292 Mar 20 15:32	19° \mathbb{H} 57'23	
					9292 Mar 27 04:58	0° \mathbb{Y}	
superior conj	9291 May 06 00:20	19° \mathbb{B} 43'52	-2°10'45	morning set	9292 Mar 29 06:53	3° \mathbb{Y} 12'35	
minimum elong	9291 May 06 03:04	19° \mathbb{B} 55'04	2°10'53	max. Earth dist.	9292 Apr 11 15:12	24° \mathbb{Y} 00'05	1.45062 AU
	9291 May 12 03:40	0° \mathbb{I}					
evening rise	9291 May 18 17:58	11° \mathbb{I} 20'29		superior conj	9292 Apr 14 20:33	29° \mathbb{Y} 05'46	-2°09'16
asc. node	9291 May 27 10:24	26° \mathbb{I} 11'40		minimum elong	9292 Apr 14 16:21	28° \mathbb{Y} 49'06	2°09'16
	9291 May 29 19:52	0° \mathbb{B}			9292 Apr 15 10:13	0° \mathbb{B}	
evening max el	9291 Jun 05 02:36	8° \mathbb{B} 09'34	18°06'01	evening rise	9292 Apr 29 07:40	22° \mathbb{B} 31'44	
retrograde	9291 Jun 11 12:51	11° \mathbb{B} 30'00			9292 May 03 20:12	0° \mathbb{I}	
evening set	9291 Jun 14 06:32	10° \mathbb{B} 52'33		asc. node	9292 May 13 07:27	14° \mathbb{I} 57'15	
inferior conj	9291 Jun 20 13:59	5° \mathbb{B} 42'55	2°36'38	evening max el	9292 May 18 15:46	21° \mathbb{I} 36'25	18°21'43
minimum elong	9291 Jun 20 16:43	5° \mathbb{B} 35'49	2°35'43	retrograde	9292 May 25 01:36	25° \mathbb{I} 02'52	
min. Earth dist.	9291 Jun 23 12:04	2° \mathbb{B} 41'37	0.62243 AU	evening set	9292 May 28 02:44	24° \mathbb{I} 11'48	
	9291 Jun 26 12:24	30° $\mathbb{R}\mathbb{I}$		inferior conj	9292 Jun 02 23:08	18° \mathbb{I} 44'31	3°07'24
morning rise	9291 Jun 27 00:58	29° \mathbb{I} 36'33		minimum elong	9292 Jun 03 00:51	18° \mathbb{I} 39'32	3°06'52
desc. node	9291 Jun 30 18:20	27° \mathbb{I} 39'27		min. Earth dist.	9292 Jun 05 07:13	16° \mathbb{I} 02'17	0.64293 AU
direct	9291 Jul 03 18:29	27° \mathbb{I} 10'52		morning rise	9292 Jun 08 21:51	12° \mathbb{I} 28'25	
	9291 Jul 11 16:45	0° \mathbb{B}		direct	9292 Jun 15 14:03	9° \mathbb{I} 47'02	
morning max el	9291 Jul 17 21:26	5° \mathbb{B} 12'41	27°55'36	desc. node	9292 Jun 16 15:23	9° \mathbb{I} 50'42	
	9291 Aug 05 12:35	0° \mathbb{Q}		morning max el	9292 Jun 29 07:07	17° \mathbb{I} 47'09	27°30'22
morning set	9291 Aug 20 18:48	27° \mathbb{Q} 47'12			9292 Jul 09 12:14	0° \mathbb{B}	
	9291 Aug 21 20:42	0° \mathbb{M}			9292 Jul 28 09:50	0° \mathbb{Q}	
asc. node	9291 Aug 23 09:58	3° \mathbb{M} 14'16		morning set	9292 Aug 03 10:58	11° \mathbb{Q} 26'29	
max. Earth dist.	9291 Aug 26 06:08	9° \mathbb{M} 17'54	1.32083 AU	max. Earth dist.	9292 Aug 08 05:17	21° \mathbb{Q} 05'36	1.33041 AU
				asc. node	9292 Aug 09 06:52	23° \mathbb{Q} 19'21	
superior conj	9291 Aug 28 07:48	13° \mathbb{M} 48'04	0°47'47				
minimum elong	9291 Aug 28 05:51	13° \mathbb{M} 37'25	0°47'19	superior conj	9292 Aug 11 13:03	28° \mathbb{Q} 06'39	0°22'31
evening rise	9291 Sep 04 03:23	28° \mathbb{M} 41'37		minimum elong	9292 Aug 11 11:58	28° \mathbb{Q} 00'52	0°22'07
	9291 Sep 04 18:04	0° \mathbb{Q}			9292 Aug 12 10:13	0° \mathbb{M}	
				evening rise	9292 Aug 18 14:47	13° \mathbb{M} 19'04	

































































































































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evening max el	9292 Sep 09 10:51	18°♎55'17	22°35'23	behind sun begin	9293 Jul 26 06:59	11°♎37'21	
desc. node	9292 Sep 12 14:01	21°♎38'22		behind sun end	9293 Jul 26 17:39	12°♎32'31	
retrograde	9292 Sep 22 12:40	25°♎26'37		asc. node	9293 Jul 27 03:48	13°♎25'07	
evening set	9292 Sep 26 00:42	24°♎59'39		evening rise	9293 Aug 03 00:17	27°♎47'40	
min. Earth dist.	9292 Oct 03 18:09	21°♎33'04	0.55020 AU		9293 Aug 04 01:47	0°♎	
inferior conj	9292 Oct 04 20:51	20°♎55'10	-5°25'33	evening max el	9293 Aug 22 06:08	29°♎21'42	21°02'47
minimum elong	9292 Oct 04 15:05	21°♎03'22	5°24'45		9293 Aug 22 22:04	0°♎	
morning rise	9292 Oct 13 07:20	17°♎07'24		desc. node	9293 Aug 30 11:10	4°♎40'30	
direct	9292 Oct 16 12:16	16°♎44'01		retrograde	9293 Sep 03 01:07	5°♎12'23	
morning max el	9292 Oct 27 23:59	22°♎07'46	21°07'52	evening set	9293 Sep 05 08:29	4°♎59'51	
	9292 Nov 03 14:50	0°♎		inferior conj	9293 Sep 14 13:17	1°♎03'31	-4°16'58
asc. node	9292 Nov 05 06:50	2°♎29'09		minimum elong	9293 Sep 14 03:34	1°♎17'16	4°14'18
morning set	9292 Nov 16 18:50	23°♎54'22		min. Earth dist.	9293 Sep 15 02:43	0°♎44'30	0.54657 AU
	9292 Nov 19 16:44	0°♎			9293 Sep 16 10:30	30°♎	
				morning rise	9293 Sep 22 22:59	27°♎08'53	
superior conj	9292 Nov 24 02:32	9°♎12'38	1°35'50	direct	9293 Sep 26 20:19	26°♎36'23	
minimum elong	9292 Nov 24 04:04	9°♎20'32	1°36'01		9293 Oct 06 08:48	0°♎	
max. Earth dist.	9292 Nov 28 18:11	18°♎37'13	1.35438 AU	morning max el	9293 Oct 09 17:49	2°♎46'15	22°48'07
evening rise	9292 Dec 02 19:39	26°♎26'30		asc. node	9293 Oct 23 03:47	20°♎55'59	
	9292 Dec 04 17:43	0°♎			9293 Oct 28 00:06	0°♎	
desc. node	9292 Dec 09 12:38	8°♎29'18		morning set	9293 Nov 01 05:51	8°♎42'49	
	9292 Dec 23 07:01	0°♎					
evening max el	9293 Jan 07 05:15	18°♎07'46	26°27'52	superior conj	9293 Nov 08 06:02	23°♎44'32	1°40'34
retrograde	9293 Jan 20 03:21	25°♎24'32		minimum elong	9293 Nov 08 06:17	23°♎45'55	1°40'48
evening set	9293 Jan 26 11:49	22°♎51'25			9293 Nov 11 05:07	0°♎	
min. Earth dist.	9293 Jan 30 14:51	18°♎36'47	0.66480 AU	max. Earth dist.	9293 Nov 11 11:10	0°♎31'31	1.33797 AU
inferior conj	9293 Feb 01 09:17	16°♎28'50	0°02'44	evening rise	9293 Nov 16 03:29	9°♎59'55	
minimum elong	9293 Feb 01 09:13	16°♎29'05	0°02'55	desc. node	9293 Nov 26 09:41	28°♎42'48	
transit middle	9293 Feb 01 09:13	16°♎29'05	0°02'55		9293 Nov 27 04:06	0°♎	
transit begin	9293 Feb 01 06:22	16°♎37'42			9293 Dec 19 01:28	0°♎	
transit end	9293 Feb 01 12:04	16°♎20'29		evening max el	9293 Dec 20 18:22	1°♎41'34	27°11'59
asc. node	9293 Feb 01 06:00	16°♎38'49		retrograde	9294 Jan 03 04:50	9°♎03'26	
morning rise	9293 Feb 07 07:30	10°♎45'32		evening set	9294 Jan 09 23:12	6°♎28'24	
direct	9293 Feb 10 07:39	9°♎54'47		min. Earth dist.	9294 Jan 13 20:51	2°♎47'11	0.65048 AU
morning max el	9293 Feb 16 20:55	13°♎26'03	18°28'23	inferior conj	9294 Jan 16 02:54	0°♎17'37	-1°00'18
	9293 Mar 01 00:34	0°♎		minimum elong	9294 Jan 16 04:42	0°♎12'38	0°59'17
desc. node	9293 Mar 07 12:25	10°♎14'02			9294 Jan 16 09:16	30°♎	
morning set	9293 Mar 09 04:38	12°♎53'29		asc. node	9294 Jan 19 03:07	27°♎09'58	
	9293 Mar 20 00:55	0°♎		morning rise	9294 Jan 22 11:41	24°♎46'55	
				direct	9294 Jan 25 02:57	24°♎10'09	
superior conj	9293 Mar 25 02:45	7°♎56'59	-1°47'30	morning max el	9294 Jan 31 12:55	27°♎32'47	17°59'20
minimum elong	9293 Mar 24 17:24	7°♎20'22	1°46'44		9294 Feb 02 18:15	0°♎	
max. Earth dist.	9293 Mar 25 09:44	8°♎24'17	1.45568 AU	morning set	9294 Feb 18 07:55	24°♎02'31	
	9293 Apr 08 03:53	0°♎			9294 Feb 21 22:42	0°♎	
evening rise	9293 Apr 09 21:39	2°♎45'04		desc. node	9294 Feb 22 09:19	0°♎43'32	
greatest brilliancy	9293 Apr 19 06:40	17°♎32'14	-0.8m				
	9293 Apr 27 17:25	0°♎		superior conj	9294 Mar 04 13:09	17°♎06'51	-1°09'48
asc. node	9293 Apr 30 04:32	3°♎06'20		minimum elong	9294 Mar 04 05:20	16°♎35'50	1°08'44
evening max el	9293 May 02 02:19	5°♎11'42	18°55'12	max. Earth dist.	9294 Mar 08 05:12	22°♎54'27	1.45335 AU
retrograde	9293 May 08 20:27	8°♎56'51			9294 Mar 12 18:03	0°♎	
evening set	9293 May 12 05:19	7°♎51'13		evening rise	9294 Mar 20 16:08	12°♎15'32	
inferior conj	9293 May 17 18:20	2°♎08'01	3°20'03		9294 Apr 01 07:14	0°♎	
minimum elong	9293 May 17 18:47	2°♎06'38	3°19'46	greatest brilliancy	9294 Apr 03 16:10	3°♎31'44	-0.6m
	9293 May 19 10:59	30°♎		evening max el	9294 Apr 15 08:21	18°♎50'42	19°45'05
min. Earth dist.	9293 May 19 11:15	29°♎59'12	0.65998 AU	asc. node	9294 Apr 17 01:40	20°♎27'11	
morning rise	9293 May 23 07:39	25°♎48'38		retrograde	9294 Apr 22 18:17	23°♎05'26	
direct	9293 May 29 17:06	23°♎03'02		evening set	9294 Apr 26 11:38	21°♎44'36	
desc. node	9293 Jun 03 12:23	24°♎19'48		inferior conj	9294 May 01 20:26	15°♎47'05	3°18'17
	9293 Jun 10 22:28	0°♎		minimum elong	9294 May 01 19:42	15°♎49'30	3°18'03
morning max el	9293 Jun 11 17:49	0°♎48'12	26°34'51	min. Earth dist.	9294 May 02 22:33	14°♎19'53	0.67284 AU
	9293 Jul 03 12:40	0°♎		morning rise	9294 May 07 03:26	9°♎28'25	
morning set	9293 Jul 17 15:50	24°♎31'13		direct	9294 May 13 02:16	6°♎49'28	
	9293 Jul 20 12:19	0°♎		desc. node	9294 May 21 09:24	10°♎36'13	
max. Earth dist.	9293 Jul 21 18:06	2°♎26'19	1.34487 AU	morning max el	9294 May 25 03:33	14°♎03'17	25°18'00
					9294 Jun 07 02:45	0°♎	
superior conj	9293 Jul 26 11:57	12°♎02'58	-0°06'36		9294 Jun 26 08:16	0°♎	

morning set	9294 Jun 30 05:06	6°☿49'10		max. Earth dist.	9295 Jun 15 17:02	24°♄44'37	1.38588 AU
max. Earth dist.	9294 Jul 03 20:19	13°☿29'12	1.36382 AU		9295 Jun 18 15:23	0°☿	
superior conj	9294 Jul 10 01:35	25°☿28'50	-0°38'21	superior conj	9295 Jun 23 02:27	8°☿16'04	-1°10'48
minimum elong	9294 Jul 10 03:57	25°☿40'34	0°38'11	minimum elong	9295 Jun 23 06:59	8°☿37'32	1°10'24
	9294 Jul 12 07:49	0°♊		asc. node	9295 Jun 30 21:44	23°☿21'46	
asc. node	9294 Jul 14 00:45	3°♊27'09		evening rise	9295 Jul 02 04:10	25°☿50'48	
evening rise	9294 Jul 18 05:37	12°♊00'24			9295 Jul 04 07:24	0°♊	
	9294 Jul 27 18:35	0°♋		evening max el	9295 Jul 18 11:39	22°♊20'24	18°52'57
evening max el	9294 Aug 04 14:35	10°♋28'34	19°47'32	retrograde	9295 Jul 26 23:35	26°♊33'45	
retrograde	9294 Aug 14 16:44	15°♋27'59		evening set	9295 Jul 28 22:21	26°♊21'17	
evening set	9294 Aug 16 13:26	15°♋18'33		desc. node	9295 Aug 04 05:29	23°♊21'54	
desc. node	9294 Aug 17 08:20	15°♋09'07		inferior conj	9295 Aug 06 02:52	22°♊02'59	-0°34'50
inferior conj	9294 Aug 25 11:22	11°♋16'57	-2°28'57	minimum elong	9295 Aug 06 01:24	22°♊05'35	0°34'28
minimum elong	9294 Aug 25 04:37	11°♋27'20	2°26'35	min. Earth dist.	9295 Aug 09 04:24	19°♊52'42	0.56691 AU
min. Earth dist.	9294 Aug 27 13:40	9°♋59'36	0.55249 AU	morning rise	9295 Aug 14 01:11	17°♊05'26	
morning rise	9294 Sep 02 17:53	6°♋56'06		direct	9295 Aug 19 13:14	15°♊53'05	
direct	9294 Sep 07 10:18	6°♋07'45		morning max el	9295 Sep 02 19:30	23°♊15'42	26°10'52
morning max el	9294 Sep 21 05:51	12°♋58'47	24°34'40		9295 Sep 08 21:03	0°♋	
	9294 Oct 04 09:12	0°♌		asc. node	9295 Sep 26 21:39	29°♋22'55	
asc. node	9294 Oct 10 00:44	9°♌56'58			9295 Sep 27 05:04	0°♌	
morning set	9294 Oct 16 17:39	23°♌31'07		morning set	9295 Oct 01 04:31	8°♌14'04	
	9294 Oct 19 17:35	0°♍					
superior conj	9294 Oct 23 14:23	8°♍28'34	1°38'52	superior conj	9295 Oct 08 01:24	23°♌17'26	1°31'19
minimum elong	9294 Oct 23 13:31	8°♍23'48	1°39'00	minimum elong	9295 Oct 07 23:41	23°♌07'55	1°31'16
max. Earth dist.	9294 Oct 25 12:26	12°♍39'06	1.32588 AU	max. Earth dist.	9295 Oct 08 19:46	24°♌59'07	1.31839 AU
evening rise	9294 Oct 30 22:00	24°♍01'30			9295 Oct 11 02:27	0°♍	
	9294 Nov 02 21:51	0°♎		evening rise	9295 Oct 15 00:10	8°♍22'28	
desc. node	9294 Nov 13 06:46	18°♎34'58			9295 Oct 26 07:23	0°♎	
	9294 Nov 20 18:52	0°♏		desc. node	9295 Oct 31 03:52	7°♎56'23	
evening max el	9294 Dec 03 06:06	14°♏52'52	27°29'55	evening max el	9295 Nov 15 13:45	27°♎27'02	27°16'01
retrograde	9294 Dec 16 23:36	22°♏11'39			9295 Nov 18 12:11	0°♏	
evening set	9294 Dec 24 00:10	19°♏42'30		retrograde	9295 Nov 29 10:27	4°♏39'22	
min. Earth dist.	9294 Dec 27 17:54	16°♏31'48	0.63301 AU	evening set	9295 Dec 06 11:16	2°♏25'21	
inferior conj	9294 Dec 30 10:52	13°♏50'05	-2°09'40		9295 Dec 09 18:11	30°♏♎	
minimum elong	9294 Dec 30 15:02	13°♏39'42	2°07'42	min. Earth dist.	9295 Dec 10 04:20	29°♎38'43	0.61313 AU
morning rise	9295 Jan 06 07:54	8°♏34'56		inferior conj	9295 Dec 13 05:55	26°♎56'58	-3°22'03
asc. node	9295 Jan 06 00:14	8°♏42'31		minimum elong	9295 Dec 13 12:25	26°♎42'37	3°19'29
direct	9295 Jan 08 16:31	8°♏08'15		morning rise	9295 Dec 20 15:57	22°♎00'52	
morning max el	9295 Jan 15 06:26	11°♏31'51	17°47'37	direct	9295 Dec 22 20:44	21°♎40'40	
	9295 Jan 27 19:37	0°♐		asc. node	9295 Dec 23 21:19	21°♎45'11	
morning set	9295 Jan 31 13:19	6°♐27'47		morning max el	9295 Dec 29 22:12	25°♎14'00	17°54'05
desc. node	9295 Feb 09 06:13	21°♐21'48			9296 Jan 02 21:26	0°♐	
				morning set	9296 Jan 14 14:09	19°♐47'32	
superior conj	9295 Feb 12 19:34	27°♐16'44	-0°26'04		9296 Jan 20 05:29	0°♐	
minimum elong	9295 Feb 12 16:48	27°♐05'24	0°25'29	superior conj	9296 Jan 25 03:17	8°♐38'51	0°14'55
	9295 Feb 14 11:22	0°♑		minimum elong	9296 Jan 25 04:36	8°♐44'29	0°14'57
max. Earth dist.	9295 Feb 18 23:32	7°♑16'36	1.44390 AU	behind sun begin	9296 Jan 25 01:37	8°♐31'36	
evening rise	9295 Feb 28 03:33	21°♑37'44		behind sun end	9296 Jan 25 07:34	8°♐57'22	
	9295 Mar 05 15:27	0°♒		desc. node	9296 Jan 27 03:06	12°♐04'26	
	9295 Mar 27 01:07	0°♓		max. Earth dist.	9296 Feb 01 14:10	21°♐13'01	1.42836 AU
evening max el	9295 Mar 29 09:00	2°♓32'00	20°48'58		9296 Feb 07 00:56	0°♓	
asc. node	9295 Apr 03 22:49	6°♓46'35		evening rise	9296 Feb 07 22:54	1°♓26'43	
retrograde	9295 Apr 06 16:53	7°♓24'29			9296 Feb 27 03:48	0°♒	
evening set	9295 Apr 10 19:44	5°♓48'11		evening max el	9296 Mar 11 04:17	16°♒14'00	22°03'21
	9295 Apr 15 20:31	30°♒♒		retrograde	9296 Mar 20 14:22	21°♒48'34	
inferior conj	9295 Apr 16 02:51	29°♒38'09	3°04'42	asc. node	9296 Mar 20 19:59	21°♒48'18	
minimum elong	9295 Apr 16 01:16	29°♒43'39	3°04'20	evening set	9296 Mar 25 03:51	19°♒56'54	
min. Earth dist.	9295 Apr 16 15:10	28°♒55'39	0.68120 AU	inferior conj	9296 Mar 30 11:24	13°♒36'49	2°40'56
morning rise	9295 Apr 21 06:34	23°♒22'29		minimum elong	9296 Mar 30 09:18	13°♒44'10	2°40'23
direct	9295 Apr 26 16:31	20°♒58'36		min. Earth dist.	9296 Mar 30 10:56	13°♒38'29	0.68500 AU
morning max el	9295 May 07 12:46	27°♒27'05	23°50'02	morning rise	9296 Apr 04 14:35	7°♒25'35	
desc. node	9295 May 08 06:21	28°♒12'18		direct	9296 Apr 09 10:41	5°♒21'52	
	9295 May 09 22:10	0°♓		morning max el	9296 Apr 18 24:00	10°♒58'45	22°20'47
	9295 May 31 18:19	0°♊		desc. node	9296 Apr 24 03:15	16°♒45'31	
morning set	9295 Jun 11 21:40	18°♊07'29			9296 May 04 00:32	0°♓	

morning set	9296 May 22 12:32	28°♄14'15		desc. node	9297 Apr 11 00:08	6°♁00'14	
	9296 May 23 14:28	0°♂			9297 Apr 27 09:53	0°♄	
max. Earth dist.	9296 May 27 15:20	6°♂42'28	1.40846 AU	morning set	9297 May 02 01:06	7°♄10'15	
				max. Earth dist.	9297 May 09 19:27	19°♄32'57	1.42876 AU
superior conj	9296 Jun 04 10:12	20°♂14'25	-1°40'47		9297 May 16 02:51	0°♂	
minimum elong	9296 Jun 04 16:13	20°♂41'24	1°40'23				
	9296 Jun 09 18:43	0°♄		superior conj	9297 May 16 20:09	1°♂13'13	-2°03'27
evening rise	9296 Jun 14 16:34	9°♄10'20		minimum elong	9297 May 17 01:16	1°♂34'52	2°03'24
asc. node	9296 Jun 16 18:45	13°♄04'52		evening rise	9297 May 28 14:31	21°♂47'56	
	9296 Jun 26 17:34	0°♂			9297 Jun 02 05:11	0°♄	
evening max el	9296 Jun 30 17:59	4°♂51'09	18°19'11	asc. node	9297 Jun 03 15:47	2°♄30'53	
retrograde	9296 Jul 08 01:50	8°♂32'04		evening max el	9297 Jun 14 05:41	17°♄50'57	18°05'20
evening set	9296 Jul 10 07:19	8°♂12'26		retrograde	9297 Jun 20 20:51	21°♄14'43	
inferior conj	9296 Jul 17 16:11	3°♂33'44	1°00'30	evening set	9297 Jun 23 10:01	20°♄44'35	
minimum elong	9296 Jul 17 18:09	3°♂29'36	0°59'33	inferior conj	9297 Jun 30 01:40	15°♄46'01	2°08'57
min. Earth dist.	9296 Jul 21 01:15	0°♂45'31	0.58702 AU	minimum elong	9297 Jun 30 04:36	15°♄38'55	2°07'50
desc. node	9296 Jul 21 02:36	0°♂42'51		min. Earth dist.	9297 Jul 03 06:06	12°♄42'23	0.60955 AU
	9296 Jul 22 00:52	30°♄		morning rise	9297 Jul 06 20:37	9°♄48'44	
morning rise	9296 Jul 25 01:40	28°♄01'21		desc. node	9297 Jul 07 23:41	9°♄07'37	
direct	9296 Jul 31 06:12	26°♄18'56		direct	9297 Jul 13 11:31	7°♄36'39	
	9296 Aug 09 21:02	0°♂		morning max el	9297 Jul 27 18:19	15°♄36'00	27°53'51
morning max el	9296 Aug 14 15:30	4°♂04'18	27°20'32		9297 Aug 08 12:17	0°♂	
	9296 Sep 02 15:20	0°♄			9297 Aug 26 04:34	0°♄	
asc. node	9296 Sep 12 18:32	19°♄06'51		morning set	9297 Aug 29 16:37	7°♄04'00	
morning set	9296 Sep 14 12:48	22°♄47'02		asc. node	9297 Aug 30 15:25	9°♄02'36	
	9296 Sep 17 21:20	0°♂		max. Earth dist.	9297 Sep 04 14:13	19°♄40'53	1.31748 AU
max. Earth dist.	9296 Sep 21 05:39	7°♂23'30	1.31556 AU				
superior conj	9296 Sep 21 13:12	8°♂05'30	1°18'22	superior conj	9297 Sep 05 23:57	22°♄46'28	1°00'20
minimum elong	9296 Sep 21 11:01	7°♂53'22	1°18'05	minimum elong	9297 Sep 05 21:46	22°♄34'25	0°59'54
evening rise	9296 Sep 28 07:31	22°♂55'56			9297 Sep 09 06:25	0°♂	
	9296 Oct 01 16:58	0°♂		evening rise	9297 Sep 12 17:55	7°♂35'08	
desc. node	9296 Oct 17 01:00	26°♂34'45			9297 Sep 24 06:43	0°♂	
	9296 Oct 19 12:42	0°♄		desc. node	9297 Oct 03 22:08	14°♂12'30	
evening max el	9296 Oct 27 14:30	9°♄12'39	26°28'01	evening max el	9297 Oct 09 07:04	20°♂06'50	25°09'45
retrograde	9296 Nov 10 12:31	16°♄18'52		retrograde	9297 Oct 23 04:08	27°♂06'21	
evening set	9296 Nov 17 04:10	14°♄30'06		evening set	9297 Oct 28 22:06	25°♂51'09	
min. Earth dist.	9296 Nov 21 03:57	11°♄55'16	0.59211 AU	min. Earth dist.	9297 Nov 02 18:51	23°♂10'14	0.57213 AU
inferior conj	9296 Nov 24 08:28	9°♄28'42	-4°30'36	inferior conj	9297 Nov 05 15:27	21°♂15'53	-5°22'46
minimum elong	9296 Nov 24 16:05	9°♄14'03	4°28'22	minimum elong	9297 Nov 05 20:53	21°♂06'47	5°21'50
morning rise	9296 Dec 02 06:31	4°♄54'45		morning rise	9297 Nov 13 22:00	17°♂04'31	
direct	9296 Dec 04 11:15	4°♄37'47		direct	9297 Nov 16 07:42	16°♂47'41	
asc. node	9296 Dec 09 18:20	6°♄22'26		morning max el	9297 Nov 25 10:10	21°♂08'53	19°07'42
morning max el	9296 Dec 12 08:42	8°♄30'04	18°20'11	asc. node	9297 Nov 26 15:19	22°♂23'09	
	9296 Dec 26 05:16	0°♄			9297 Dec 02 07:38	0°♄	
morning set	9296 Dec 28 04:41	3°♄44'59		morning set	9297 Dec 12 04:36	18°♄07'12	
					9297 Dec 18 04:25	0°♄	
superior conj	9297 Jan 06 10:03	21°♄06'20	0°48'30	superior conj	9297 Dec 20 10:51	4°♄24'36	1°13'25
minimum elong	9297 Jan 06 13:08	21°♄20'26	0°48'21	minimum elong	9297 Dec 20 13:58	4°♄39'40	1°13'21
	9297 Jan 11 09:18	0°♄		max. Earth dist.	9297 Dec 27 05:30	17°♄03'15	1.38668 AU
desc. node	9297 Jan 13 00:02	2°♄48'14		desc. node	9297 Dec 30 20:59	23°♄29'31	
max. Earth dist.	9297 Jan 13 23:40	4°♄29'40	1.40851 AU	evening rise	9297 Dec 31 00:33	23°♄44'53	
evening rise	9297 Jan 18 12:49	12°♄06'49			9298 Jan 03 17:05	0°♄	
	9297 Jan 29 22:52	0°♄			9298 Jan 23 17:49	0°♄	
	9297 Feb 21 20:22	0°♄		evening max el	9298 Feb 04 09:05	13°♄45'49	24°42'16
evening max el	9297 Feb 21 19:36	29°♄58'06	23°23'11	retrograde	9298 Feb 16 00:34	20°♄33'36	
retrograde	9297 Mar 04 09:21	6°♄13'09		evening set	9298 Feb 21 13:52	18°♄14'42	
asc. node	9297 Mar 07 17:09	5°♄19'24		asc. node	9298 Feb 22 14:16	17°♄18'17	
evening set	9297 Mar 09 10:24	4°♄07'00		min. Earth dist.	9298 Feb 26 03:14	13°♄05'20	0.67985 AU
	9297 Mar 13 03:00	30°♄		inferior conj	9298 Feb 27 03:17	11°♄45'23	1°26'00
inferior conj	9297 Mar 14 20:09	27°♄40'08	2°07'52	minimum elong	9298 Feb 27 01:28	11°♄51'27	1°25'27
minimum elong	9297 Mar 14 17:57	27°♄47'44	2°07'13	morning rise	9298 Mar 04 13:14	5°♄46'45	
min. Earth dist.	9297 Mar 14 07:40	28°♄23'03	0.68447 AU	direct	9298 Mar 08 06:51	4°♄26'44	
morning rise	9297 Mar 20 01:27	21°♄34'30		morning max el	9298 Mar 15 16:46	8°♄35'22	19°47'50
direct	9297 Mar 24 07:52	19°♄52'56		greatest brilliancy	9298 Mar 28 13:58	25°♄19'38	-0.6m
morning max el	9297 Apr 01 16:35	24°♄40'58	20°58'11	desc. node	9298 Mar 28 21:01	25°♄45'28	
	9297 Apr 06 09:42	0°♄			9298 Mar 31 17:48	0°♄	

morning set	9298 Apr 10 23:18	15° Υ 32'24		morning max el	9299 Feb 27 00:32	22° \approx 38'56	18°52'41
	9298 Apr 20 06:05	0° B			9299 Mar 05 02:15	0° H	
max. Earth dist.	9298 Apr 22 06:27	3° B 11'25	1.44444 AU	desc. node	9299 Mar 15 17:53	15° H 52'32	
				morning set	9299 Mar 21 06:52	24° H 29'13	
superior conj	9298 Apr 27 05:38	11° B 08'51	-2°12'31		9299 Mar 24 19:44	0° Υ	
minimum elong	9298 Apr 27 05:42	11° B 09'05	2°12'43	max. Earth dist.	9299 Apr 04 23:12	17° Υ 24'40	1.45373 AU
	9298 May 08 14:56	0° II					
evening rise	9298 May 10 17:14	3° II 33'09		superior conj	9299 Apr 06 18:10	20° Υ 13'19	-2°02'28
asc. node	9298 May 21 12:51	21° II 33'50		minimum elong	9299 Apr 06 11:06	19° Υ 45'32	2°02'09
	9298 May 27 16:26	0° E			9299 Apr 12 22:40	0° B	
evening max el	9298 May 28 19:18	1° E 10'56	18°10'30	evening rise	9299 Apr 21 20:48	14° B 19'06	
retrograde	9298 Jun 04 04:16	4° E 32'12			9299 May 01 14:23	0° II	
evening set	9298 Jun 07 01:06	3° E 49'13		asc. node	9299 May 08 09:56	10° II 05'23	
	9298 Jun 11 18:39	30° R II		evening max el	9299 May 12 07:44	14° II 42'38	18°33'52
inferior conj	9298 Jun 13 03:24	28° II 32'11	2°52'08	retrograde	9299 May 18 19:56	18° II 15'08	
minimum elong	9298 Jun 13 05:46	28° II 25'44	2°51'23	evening set	9299 May 22 00:24	17° II 17'52	
min. Earth dist.	9298 Jun 15 19:58	25° II 36'32	0.63153 AU	inferior conj	9299 May 27 17:15	11° II 43'44	3°14'39
morning rise	9298 Jun 19 08:51	22° II 20'43		minimum elong	9299 May 27 18:26	11° II 40'12	3°14'17
desc. node	9298 Jun 24 20:45	19° II 51'39		min. Earth dist.	9299 May 29 18:55	9° II 14'26	0.65078 AU
direct	9298 Jun 26 02:43	19° II 46'36		morning rise	9299 Jun 02 11:38	5° II 25'55	
morning max el	9298 Jul 10 02:05	27° II 49'37	27°48'54	direct	9299 Jun 09 01:43	2° II 41'14	
	9298 Jul 12 03:48	0° E		desc. node	9299 Jun 11 17:47	3° II 04'55	
	9298 Aug 02 06:36	0° Ω		morning max el	9299 Jun 22 12:16	10° II 36'03	27°09'49
morning set	9298 Aug 13 13:47	20° Ω 59'02			9299 Jul 07 19:41	0° E	
asc. node	9298 Aug 17 12:20	29° Ω 05'39			9299 Jul 25 18:06	0° Ω	
	9298 Aug 17 22:38	0° M		morning set	9299 Jul 28 01:34	4° Ω 24'37	
max. Earth dist.	9298 Aug 18 17:39	1° M 40'51	1.32429 AU	max. Earth dist.	9299 Aug 01 12:34	13° Ω 16'32	1.33601 AU
				asc. node	9299 Aug 04 09:16	19° Ω 11'44	
superior conj	9298 Aug 21 07:49	7° M 15'08	0°37'35				
minimum elong	9298 Aug 21 06:09	7° M 06'10	0°37'07	superior conj	9299 Aug 05 10:41	21° Ω 25'19	0°10'36
evening rise	9298 Aug 28 05:28	22° M 14'48		minimum elong	9299 Aug 05 10:09	21° Ω 22'29	0°10'17
	9298 Aug 31 22:34	0° A		behind sun begin	9299 Aug 05 05:49	20° Ω 59'41	
	9298 Sep 20 08:22	0° M		behind sun end	9299 Aug 05 14:29	21° Ω 45'20	
desc. node	9298 Sep 20 19:17	0° M 26'45			9299 Aug 09 11:22	0° M	
evening max el	9298 Sep 20 18:23	0° M 24'34	23°32'54	evening rise	9299 Aug 12 16:19	6° M 49'27	
retrograde	9298 Oct 04 07:02	7° M 09'56			9299 Aug 25 00:09	0° A	
evening set	9298 Oct 08 15:47	6° M 28'25		evening max el	9299 Sep 02 08:17	10° A 37'57	21°54'20
min. Earth dist.	9298 Oct 15 04:29	3° M 23'00	0.55626 AU	desc. node	9299 Sep 07 16:27	14° A 48'27	
inferior conj	9298 Oct 17 02:20	2° M 15'04	-5°39'30	retrograde	9299 Sep 14 22:26	16° A 53'29	
minimum elong	9298 Oct 17 01:06	2° M 16'53	5°39'19	evening set	9299 Sep 17 20:36	16° A 34'21	
	9298 Oct 21 03:06	30° R A		inferior conj	9299 Sep 26 22:13	12° A 35'11	-5°02'57
morning rise	9298 Oct 25 12:23	28° A 21'39		minimum elong	9299 Sep 26 13:53	12° A 46'51	5°01'19
direct	9298 Oct 28 09:05	28° A 01'30		min. Earth dist.	9299 Sep 26 12:15	12° A 49'09	0.54752 AU
	9298 Nov 04 01:26	0° M		morning rise	9299 Oct 05 08:31	8° A 47'12	
morning max el	9298 Nov 07 23:15	3° M 00'48	20°17'46	direct	9299 Oct 08 20:27	8° A 20'20	
asc. node	9298 Nov 13 12:17	9° M 32'11		morning max el	9299 Oct 20 23:10	14° A 03'33	21°48'54
	9298 Nov 25 02:14	0° A		asc. node	9299 Oct 31 09:15	27° A 34'50	
morning set	9298 Nov 26 10:40	2° A 45'00			9299 Nov 01 19:43	0° M	
				morning set	9299 Nov 10 20:31	17° M 31'58	
superior conj	9298 Dec 04 00:55	18° A 19'47	1°29'54		9299 Nov 16 17:47	0° A	
minimum elong	9298 Dec 04 03:09	18° A 31'03	1°30'00	superior conj	9299 Nov 18 00:27	2° A 41'28	1°38'41
max. Earth dist.	9298 Dec 09 12:21	29° A 06'10	1.36547 AU	minimum elong	9299 Nov 18 01:26	2° A 46'39	1°38'53
	9298 Dec 09 23:39	0° B		max. Earth dist.	9299 Nov 22 01:12	11° A 00'20	1.34691 AU
evening rise	9298 Dec 13 08:17	6° B 15'12		evening rise	9299 Nov 26 08:28	19° A 28'52	
desc. node	9298 Dec 17 17:59	14° B 03'57			9299 Dec 02 01:30	0° B	
	9298 Dec 27 13:25	0° \approx		desc. node	9299 Dec 04 15:01	4° B 27'13	
evening max el	9299 Jan 17 22:24	27° \approx 34'24	25°53'31		9299 Dec 21 14:56	0° \approx	
	9299 Jan 20 14:18	0° H		evening max el	9299 Dec 31 11:55	11° \approx 17'08	26°49'29
retrograde	9299 Jan 30 10:58	4° H 43'27		retrograde	9300 Jan 13 15:42	18° \approx 36'23	
evening set	9299 Feb 05 12:37	2° H 14'36		evening set	9300 Jan 20 04:46	16° \approx 01'49	
	9299 Feb 07 19:50	30° R \approx		min. Earth dist.	9300 Jan 24 05:29	12° \approx 01'37	0.65915 AU
asc. node	9299 Feb 09 11:24	28° \approx 04'11		inferior conj	9300 Jan 26 04:49	9° \approx 43'45	-0°23'04
min. Earth dist.	9299 Feb 09 19:16	27° \approx 39'55	0.67134 AU	minimum elong	9300 Jan 26 05:28	9° \approx 41'53	0°22'33
inferior conj	9299 Feb 11 06:52	25° \approx 48'01	0°35'34	asc. node	9300 Jan 27 08:30	8° \approx 24'05	
minimum elong	9299 Feb 11 05:59	25° \approx 50'50	0°35'23	morning rise	9300 Feb 01 07:15	4° \approx 05'22	
morning rise	9299 Feb 16 23:54	19° \approx 58'18		direct	9300 Feb 04 03:31	3° \approx 20'52	
direct	9299 Feb 20 06:03	18° \approx 57'40					

morning max el	9300 Feb 10 14:18	6°  46'53	18°13'59	morning rise	9301 Jan 16 08:29	18°  01'52	
	9300 Feb 26 17:33	0° 		direct	9301 Jan 18 20:42	17°  29'49	
morning set	9300 Mar 01 17:09	4°  48'31		morning max el	9301 Jan 25 07:20	20°  35'25	17°52'16
desc. node	9300 Mar 02 14:47	6°  15'35			9301 Feb 01 07:17	0° 	
				morning set	9301 Feb 11 08:13	16°  32'05	
superior conj	9300 Mar 16 23:45	29°  06'08	-1°32'56	desc. node	9301 Feb 17 11:39	26°  49'18	
minimum elong	9300 Mar 16 14:15	28°  28'53	1°31'56		9301 Feb 19 09:51	0° 	
	9300 Mar 17 13:29	0° 					
max. Earth dist.	9300 Mar 18 19:06	1°  55'59	1.45568 AU	superior conj	9301 Feb 24 17:15	8°  38'02	-0°51'23
evening rise	9300 Apr 02 01:34	24°  11'56		minimum elong	9301 Feb 24 11:29	8°  14'50	0°50'28
	9300 Apr 05 18:53	0° 		max. Earth dist.	9301 Mar 01 14:34	16°  25'27	1.45013 AU
greatest brilliancy	9300 Apr 13 13:22	12°  00'05	-0.7m		9301 Mar 10 07:28	0° 	
asc. node	9300 Apr 25 07:03	27°  55'49		evening rise	9301 Mar 12 15:11	3°  34'17	
evening max el	9300 Apr 25 16:36	28°  20'22	19°14'26	greatest brilliancy	9301 Mar 27 12:45	25°  59'11	-0.6m
	9300 Apr 27 12:03	0° 			9301 Mar 30 07:50	0° 	
retrograde	9300 May 02 16:25	2°  16'35		evening max el	9301 Apr 08 20:18	12°  00'26	20°10'39
evening set	9300 May 06 04:53	1°  04'19		asc. node	9301 Apr 12 04:11	14°  52'46	
	9300 May 07 13:01	30°  18'08		retrograde	9301 Apr 16 14:58	16°  30'48	
inferior conj	9300 May 11 15:45	25°  14'39	3°20'50	evening set	9301 Apr 20 12:13	15°  03'18	
minimum elong	9300 May 11 15:40	25°  14'55	3°20'37	inferior conj	9301 Apr 25 19:59	8°  59'55	3°13'53
min. Earth dist.	9300 May 13 02:10	23°  23'13	0.66607 AU	minimum elong	9301 Apr 25 18:51	9°  03'46	3°13'35
morning rise	9300 May 17 02:02	18°  55'21		min. Earth dist.	9301 Apr 26 16:02	7°  51'48	0.67691 AU
direct	9300 May 23 07:18	16°  11'43		morning rise	9301 May 01 01:14	2°  42'13	
desc. node	9300 May 29 14:49	18°  23'43		direct	9301 May 06 18:38	0°  09'04	
morning max el	9300 Jun 04 22:45	23°  44'40	26°04'08	desc. node	9301 May 16 11:48	5°  17'38	
	9300 Jun 10 12:35	0° 		morning max el	9301 May 18 08:22	7°  05'23	24°41'26
	9300 Jul 01 04:46	0° 			9301 Jun 05 04:24	0° 	
morning set	9300 Jul 11 00:22	17°  21'05		morning set	9301 Jun 23 05:37	29°  10'24	
max. Earth dist.	9300 Jul 14 21:00	24°  29'05	1.35252 AU		9301 Jun 23 17:46	0° 	
	9300 Jul 17 16:28	0° 		max. Earth dist.	9301 Jun 26 20:22	5°  35'12	1.37296 AU
superior conj	9300 Jul 20 06:02	5°  09'48	-0°19'49	superior conj	9301 Jul 03 14:46	18°  20'58	-0°52'11
minimum elong	9300 Jul 20 07:13	5°  15'45	0°19'51	minimum elong	9301 Jul 03 18:04	18°  37'02	0°51'53
asc. node	9300 Jul 22 06:13	9°  16'33		asc. node	9301 Jul 09 03:12	29°  16'29	
evening rise	9300 Jul 28 00:23	21°  01'23			9301 Jul 09 11:53	0° 	
	9300 Aug 01 09:04	0° 		evening rise	9301 Jul 12 03:16	5°  17'42	
evening max el	9300 Aug 15 08:47	21°  19'25	20°28'14		9301 Jul 26 11:13	0° 	
desc. node	9300 Aug 25 13:38	26°  46'58		evening max el	9301 Jul 28 22:52	2°  46'05	19°21'39
retrograde	9300 Aug 26 10:45	26°  48'58		retrograde	9301 Aug 07 08:11	7°  25'06	
evening set	9300 Aug 28 11:35	26°  38'39		evening set	9301 Aug 09 04:29	7°  15'04	
inferior conj	9300 Sep 06 15:12	22°  14'24	-3°34'03	desc. node	9301 Aug 12 10:47	6°  12'57	
minimum elong	9300 Sep 06 06:04	22°  15'39	3°31'09	inferior conj	9301 Aug 17 19:46	3°  07'12	-1°39'29
min. Earth dist.	9300 Sep 07 21:15	21°  15'47	0.54792 AU	minimum elong	9301 Aug 17 15:19	3°  14'28	1°37'54
morning rise	9300 Sep 15 00:05	18°  38'06		min. Earth dist.	9301 Aug 20 09:50	1°  17'04	0.55769 AU
direct	9300 Sep 19 05:12	18°  00'01			9301 Aug 22 19:18	30°  00'00	
morning max el	9300 Oct 02 13:37	24°  27'41	23°33'44	morning rise	9301 Aug 25 23:25	28°  03'52	
	9300 Oct 07 15:27	0° 		direct	9301 Aug 30 23:59	27°  03'28	
asc. node	9300 Oct 18 06:12	16°  17'31			9301 Sep 08 01:35	0° 	
	9300 Oct 25 05:19	0° 		morning max el	9301 Sep 14 01:49	4°  39'41	25°17'54
morning set	9300 Oct 26 08:05	2°  12'18			9301 Oct 02 04:49	0° 	
				asc. node	9301 Oct 05 03:08	5°  13'16	
superior conj	9300 Nov 02 06:18	17°  19'30	1°40'36	morning set	9301 Oct 10 19:41	17°  08'07	
minimum elong	9300 Nov 02 06:03	17°  18'10	1°40'48		9301 Oct 16 17:04	0° 	
max. Earth dist.	9300 Nov 04 22:01	23°  00'34	1.33225 AU				
	9300 Nov 08 06:36	0° 		superior conj	9301 Oct 17 16:03	2°  10'38	1°36'20
evening rise	9300 Nov 09 21:13	3°  15'07		minimum elong	9301 Oct 17 14:46	1°  15'38	1°36'25
desc. node	9300 Nov 21 12:05	24°  32'42		max. Earth dist.	9301 Oct 19 02:01	5°  13'09	1.32210 AU
	9300 Nov 24 20:52	0° 		evening rise	9301 Oct 24 19:18	17°  10'25'44	
evening max el	9300 Dec 14 00:32	24°  34'20	27°23'07		9301 Oct 31 04:32	0° 	
	9300 Dec 20 20:17	0° 		desc. node	9301 Nov 08 09:09	14°  31'25'59	
retrograde	9300 Dec 27 14:15	2°  03'26			9301 Nov 19 11:21	0° 	
	9301 Jan 02 18:49	30°  03'33		evening max el	9301 Nov 26 10:34	7°  38'18	27°28'02
evening set	9301 Jan 03 12:02	29°  32'35		retrograde	9301 Dec 10 05:57	14°  35'25	
min. Earth dist.	9301 Jan 07 07:42	26°  02'11	0.64344 AU	evening set	9301 Dec 17 07:32	12°  31'10	
inferior conj	9301 Jan 09 18:39	23°  32'05	-1°29'04	min. Earth dist.	9301 Dec 21 00:14	9°  31'59	0.62476 AU
minimum elong	9301 Jan 09 21:24	23°  18'46	1°27'38	inferior conj	9301 Dec 23 21:27	6°  48'11	-2°40'20
asc. node	9301 Jan 14 05:37	19°  35'33		minimum elong	9301 Dec 24 02:39	6°  35'50	2°38'03




































































































































morning rise	9301 Dec 31 00:03	1°  41'05		evening set	9302 Nov 29 11:30	24°  59'10	
asc. node	9302 Jan 01 02:43	1°  23'53		min. Earth dist.	9302 Dec 03 06:15	22°  19'06	0.60415 AU
direct	9302 Jan 02 06:33	1°  17'42		inferior conj	9302 Dec 06 09:56	19°  41'46	-3°52'14
morning max el	9302 Jan 09 00:32	4°  44'26	17°48'06	minimum elong	9302 Dec 06 17:10	19°  26'42	3°49'41
morning set	9302 Jan 24 22:33	29°  22'11		morning rise	9302 Dec 14 01:19	14°  54'41	
	9302 Jan 25 07:06	0° 		direct	9302 Dec 16 05:24	14°  36'22	
desc. node	9302 Feb 04 08:31	17°  29'40		asc. node	9302 Dec 18 23:46	15°  07'29	
				morning max el	9302 Dec 23 14:32	18°  17'06	18°02'40
superior conj	9302 Feb 05 10:18	19°  18'24	-0°08'00		9303 Jan 01 00:53	0° 	
minimum elong	9302 Feb 05 09:32	19°  15'11	0°07'40	morning set	9303 Jan 08 05:52	13°  00'14	
behind sun begin	9302 Feb 05 01:35	18°  41'44			9303 Jan 17 12:35	0° 	
behind sun end	9302 Feb 05 17:28	19°  48'33					
	9302 Feb 11 21:59	0° 		superior conj	9303 Jan 18 04:21	1°  10'05	0°30'11
max. Earth dist.	9302 Feb 12 06:57	0°  36'08	1.43785 AU	minimum elong	9303 Jan 18 06:41	1°  20'23	0°30'06
evening rise	9302 Feb 20 04:02	13°  02'51		desc. node	9303 Jan 22 05:24	8°  13'29	
	9302 Mar 03 09:18	0° 		max. Earth dist.	9303 Jan 25 19:08	14°  16'06	1.42028 AU
evening max el	9302 Mar 22 18:26	25°  41'26	21°19'40	evening rise	9303 Jan 31 06:30	23°  12'30	
	9302 Mar 28 05:57	0° 			9303 Feb 04 13:58	0° 	
asc. node	9302 Mar 30 01:20	0°  40'57			9303 Feb 25 10:40	0° 	
retrograde	9302 Mar 31 13:21	0°  52'15		evening max el	9303 Mar 05 11:55	9°  24'57	22°37'06
	9302 Apr 03 15:17	30°  00'00		retrograde	9303 Mar 15 09:53	15°  09'13	
evening set	9302 Apr 04 20:29	29°  09'31		asc. node	9303 Mar 16 22:30	15°  05'40	
inferior conj	9302 Apr 10 03:32	22°  54'47	2°55'51	evening set	9303 Mar 20 04:06	13°  19'30	
minimum elong	9302 Apr 10 01:41	23°  01'15	2°55'23	inferior conj	9303 Mar 25 12:24	6°  56'15	2°28'03
min. Earth dist.	9302 Apr 10 10:20	22°  31'08	0.68326 AU	minimum elong	9303 Mar 25 10:12	7°  03'55	2°27'26
morning rise	9302 Apr 15 06:40	16°  40'35		min. Earth dist.	9303 Mar 25 06:50	7°  15'35	0.68527 AU
direct	9302 Apr 20 10:42	14°  24'47		morning rise	9303 Mar 30 16:09	0°  47'07	
morning max el	9302 Apr 30 18:01	20°  32'21	23°11'44		9303 Mar 31 17:26	30°  00'00	
desc. node	9302 May 03 08:43	23°  20'16		direct	9303 Apr 04 06:27	28°  00'00	
	9302 May 08 19:59	0° 			9303 Apr 08 02:57	0° 	
	9302 May 29 09:37	0° 		morning max el	9303 Apr 13 06:57	4°  07'46	21°44'25
morning set	9302 Jun 04 11:47	9°  56'00		desc. node	9303 Apr 20 05:35	12°  12'54	
max. Earth dist.	9302 Jun 08 16:28	17°  04'08	1.39553 AU		9303 May 02 22:23	0° 	
	9302 Jun 15 22:17	0° 		morning set	9303 May 15 14:55	19°  30'42	
				max. Earth dist.	9303 May 21 16:37	29°  00'00	1.41756 AU
superior conj	9302 Jun 16 08:53	0°  48'53	-1°24'04		9303 May 22 01:29	0° 	
minimum elong	9302 Jun 16 14:14	1°  13'32	1°23'37	superior conj	9303 May 29 07:55	12°  23'26	-1°51'37
evening rise	9302 Jun 25 21:57	18°  56'11		minimum elong	9303 May 29 13:58	12°  49'54	1°51'21
asc. node	9302 Jun 26 00:11	19°  06'54			9303 Jun 08 02:47	0° 	
	9302 Jul 01 19:08	0° 		evening rise	9303 Jun 09 04:42	1°  59'03	
evening max el	9302 Jul 12 00:24	14°  56'11	18°36'06	asc. node	9303 Jun 12 21:11	8°  43'29	
retrograde	9302 Jul 19 23:02	18°  53'38		evening max el	9303 Jun 25 09:33	27°  41'01	18°10'56
evening set	9302 Jul 22 00:20	18°  38'39			9303 Jun 28 07:36	0° 	
inferior conj	9302 Jul 29 20:28	14°  12'12	0°08'41	retrograde	9303 Jul 02 08:42	1°  12'19	
minimum elong	9302 Jul 29 20:48	14°  11'36	0°08'20	evening set	9303 Jul 04 17:36	0°  48'26	
transit middle	9302 Jul 29 20:48	14°  11'36	0°08'20		9303 Jul 06 13:20	30°  00'00	
transit begin	9302 Jul 29 17:41	14°  17'31		inferior conj	9303 Jul 11 18:44	26°  01'09	1°32'51
transit end	9302 Jul 29 23:54	14°  05'40		minimum elong	9303 Jul 11 21:22	25°  55'17	1°31'42
desc. node	9302 Jul 30 07:56	13°  50'15		min. Earth dist.	9303 Jul 15 03:04	23°  03'35	0.59659 AU
min. Earth dist.	9302 Aug 02 03:13	11°  43'03	0.57499 AU	desc. node	9303 Jul 17 05:03	21°  02'50	
morning rise	9302 Aug 06 13:43	8°  58'48		morning rise	9303 Jul 18 22:06	20°  17'11	
direct	9302 Aug 12 09:32	7°  33'43		direct	9303 Jul 25 08:10	18°  21'32	
morning max el	9302 Aug 26 17:49	15°  07'46	26°44'20	morning max el	9303 Aug 08 16:32	26°  13'13	27°39'19
	9302 Sep 07 17:48	0° 			9303 Aug 12 05:37	0° 	
asc. node	9302 Sep 22 00:02	25°  04'36			9303 Sep 01 06:05	0° 	
	9302 Sep 24 09:18	0° 		asc. node	9303 Sep 08 20:55	14°  00'00	
morning set	9302 Sep 25 05:38	1°  47'23		morning set	9303 Sep 09 12:15	16°  00'00	
					9303 Sep 15 20:47	0° 	
superior conj	9302 Oct 02 03:37	16°  56'10	1°26'27	max. Earth dist.	9303 Sep 15 20:27	29°  58'11	1.31585 AU
minimum elong	9302 Oct 02 01:39	16°  45'15	1°26'19				
max. Earth dist.	9302 Oct 02 10:40	17°  35'18	1.31660 AU	superior conj	9303 Sep 16 15:12	1°  42'04	1°11'19
	9302 Oct 08 02:40	0° 		minimum elong	9303 Sep 16 12:57	1°  29'37	1°10'58
evening rise	9302 Oct 08 23:56	1°  53'01		evening rise	9303 Sep 23 08:51	16°  30'05	
	9302 Oct 24 03:01	0° 			9303 Sep 30 00:02	0° 	
desc. node	9302 Oct 26 06:16	3°  18'00		desc. node	9303 Oct 13 03:25	21°  18'33	
evening max el	9302 Nov 08 15:38	19°  53'23	26°59'47		9303 Oct 20 05:31	0° 	
retrograde	9302 Nov 22 13:34	27°  03'26					

evening max el	9303 Oct 21 13:11	1° X 17'47	25°58'00	retrograde	9304 Oct 15 21:11	18° M 48'42	
retrograde	9303 Nov 04 11:07	8° X 20'35		evening set	9304 Oct 21 02:28	17° M 48'14	
evening set	9303 Nov 10 19:08	6° X 45'45		min. Earth dist.	9304 Oct 26 13:49	14° M 59'18	0.56476 AU
min. Earth dist.	9303 Nov 15 01:57	4° X 10'34	0.58332 AU	inferior conj	9304 Oct 29 02:48	13° M 23'16	-5°35'24
inferior conj	9303 Nov 18 04:31	1° X 56'05	-4°55'47	minimum elong	9304 Oct 29 05:53	13° M 18'23	5°35'00
minimum elong	9303 Nov 18 11:44	1° X 42'59	4°54'01	morning rise	9304 Nov 06 11:28	9° M 20'46	
	9303 Nov 20 23:21	30° R M		direct	9304 Nov 09 01:25	9° M 02'48	
morning rise	9303 Nov 26 06:41	27° M 31'30		morning max el	9304 Nov 18 18:06	13° M 38'36	19°34'45
direct	9303 Nov 28 12:55	27° M 14'54		asc. node	9304 Nov 21 17:45	16° M 54'03	
	9303 Dec 05 10:08	0° X			9304 Nov 30 03:30	0° X	
asc. node	9303 Dec 05 20:47	0° X 22'01		morning set	9304 Dec 06 03:48	11° X 40'25	
morning max el	9303 Dec 06 21:34	1° X 18'24	18°37'39				
morning set	9303 Dec 23 00:53	27° X 09'59		superior conj	9304 Dec 14 02:27	27° X 36'57	1°21'24
	9303 Dec 24 11:55	0° Z		minimum elong	9304 Dec 14 05:16	27° X 50'48	1°21'23
					9304 Dec 15 07:41	0° Z	
superior conj	9303 Dec 31 19:24	14° Z 00'53	1°00'08	max. Earth dist.	9304 Dec 20 09:07	9° Z 35'46	1.37749 AU
minimum elong	9303 Dec 31 22:40	14° Z 16'09	1°00'00	evening rise	9304 Dec 24 02:23	16° Z 19'01	
max. Earth dist.	9304 Jan 08 03:07	27° Z 15'46	1.39935 AU	desc. node	9304 Dec 25 23:20	19° Z 35'39	
desc. node	9304 Jan 09 02:20	28° Z 56'40			9305 Jan 01 04:47	0° \approx	
	9304 Jan 09 17:02	0° \approx			9305 Jan 22 07:18	0° H	
evening rise	9304 Jan 12 05:44	4° \approx 17'43		evening max el	9305 Jan 28 15:33	6° H 59'21	25°13'51
	9304 Jan 28 18:26	0° H		retrograde	9305 Feb 09 16:25	13° H 57'22	
evening max el	9304 Feb 16 02:21	23° H 11'08	23°57'21	evening set	9305 Feb 15 11:10	11° H 33'31	
retrograde	9304 Feb 27 03:13	29° H 40'33		asc. node	9305 Feb 17 16:47	9° H 20'11	
asc. node	9304 Mar 02 19:39	27° H 56'37		min. Earth dist.	9305 Feb 19 21:28	6° H 39'13	0.67676 AU
evening set	9304 Mar 03 09:30	27° H 28'46		inferior conj	9305 Feb 21 02:31	5° H 04'47	1°05'36
min. Earth dist.	9304 Mar 08 03:16	21° H 59'40	0.68305 AU	minimum elong	9305 Feb 21 01:01	5° H 09'40	1°05'11
inferior conj	9304 Mar 08 20:40	21° H 00'34	1°51'10		9305 Feb 25 13:18	30° R \approx	
minimum elong	9304 Mar 08 18:34	21° H 07'44	1°50'32	morning rise	9305 Feb 26 15:14	29° \approx 09'59	
morning rise	9304 Mar 14 03:39	14° H 57'50		direct	9305 Mar 02 03:47	27° \approx 58'39	
direct	9304 Mar 18 04:35	13° H 25'29			9305 Mar 07 02:22	0° H	
morning max el	9304 Mar 26 02:32	17° H 54'47	20°26'33	morning max el	9305 Mar 09 06:09	1° H 53'51	19°22'26
	9304 Apr 04 21:26	0° Y		greatest brilliancy	9305 Mar 22 02:14	18° H 48'04	-0.7m
desc. node	9304 Apr 06 02:27	1° Y 41'31		desc. node	9305 Mar 23 23:19	21° H 36'36	
morning set	9304 Apr 23 18:56	28° Y 04'53			9305 Mar 29 11:48	0° Y	
	9304 Apr 25 00:37	0° Z		morning set	9305 Apr 02 18:06	6° Y 33'15	
max. Earth dist.	9304 May 03 00:11	12° Z 37'05	1.43616 AU	max. Earth dist.	9305 Apr 15 14:12	26° Y 33'15	1.44922 AU
					9305 Apr 17 18:29	0° Z	
superior conj	9304 May 09 07:33	22° Z 55'12	-2°09'20				
minimum elong	9304 May 09 11:02	23° Z 09'42	2°09'27	superior conj	9305 Apr 19 06:59	2° Z 25'07	-2°10'47
	9304 May 13 12:49	0° II		minimum elong	9305 Apr 19 03:54	2° Z 12'51	2°10'51
evening rise	9304 May 21 19:01	14° II 15'35		evening rise	9305 May 03 12:13	25° Z 35'52	
asc. node	9304 May 29 18:15	28° II 00'41			9305 May 06 03:41	0° II	
	9304 May 30 23:19	0° E		asc. node	9305 May 16 15:20	16° II 51'15	
evening max el	9304 Jun 07 22:28	10° E 50'33	18°05'15	evening max el	9305 May 22 11:49	24° II 15'43	18°18'16
retrograde	9304 Jun 14 09:41	14° E 11'31		retrograde	9305 May 28 21:14	27° II 40'34	
evening set	9304 Jun 17 02:12	13° E 36'01		evening set	9305 May 31 21:12	26° II 51'41	
inferior conj	9304 Jun 23 11:38	8° E 29'07	2°30'05	inferior conj	9305 Jun 06 19:00	21° II 27'01	3°03'57
minimum elong	9304 Jun 23 14:27	8° E 21'54	2°29'06	minimum elong	9305 Jun 06 20:54	21° II 21'36	3°03'23
min. Earth dist.	9304 Jun 26 11:29	5° E 26'35	0.61910 AU	min. Earth dist.	9305 Jun 09 05:20	18° II 40'44	0.64003 AU
morning rise	9304 Jun 30 00:38	2° E 24'45		morning rise	9305 Jun 12 19:21	15° II 11'48	
desc. node	9304 Jul 03 02:07	0° E 44'03		direct	9305 Jun 19 12:08	12° II 31'55	
direct	9304 Jul 06 17:36	0° E 02'27		desc. node	9305 Jun 19 23:11	12° II 32'37	
morning max el	9304 Jul 20 21:47	8° E 03'51	27°56'25	morning max el	9305 Jul 03 07:10	20° II 33'35	27°36'14
	9304 Aug 06 17:12	0° O			9305 Jul 11 10:05	0° E	
	9304 Aug 23 09:01	0° O			9305 Jul 30 19:12	0° O	
morning set	9304 Aug 23 13:35	0° O 23'18		morning set	9305 Aug 07 07:09	14° O 07'05	
asc. node	9304 Aug 25 17:48	4° O 54'04		max. Earth dist.	9305 Aug 12 03:59	24° O 02'36	1.32864 AU
max. Earth dist.	9304 Aug 29 03:37	12° O 11'30	1.31983 AU	asc. node	9305 Aug 12 14:43	24° O 58'54	
					9305 Aug 14 23:25	0° O	
superior conj	9304 Aug 31 00:59	16° O 19'07	0°51'15				
minimum elong	9304 Aug 30 22:57	16° O 07'59	0°50'47	superior conj	9305 Aug 15 06:59	0° O 40'33	0°26'38
	9304 Sep 06 06:49	0° O		minimum elong	9305 Aug 15 05:44	0° O 33'49	0°26'12
evening rise	9304 Sep 06 20:02	1° O 11'07		evening rise	9305 Aug 22 07:31	15° O 49'18	
	9304 Sep 22 10:20	0° M			9305 Aug 29 07:52	0° O	
desc. node	9304 Sep 29 00:36	8° M 39'21		evening max el	9305 Sep 13 13:55	22° O 04'44	22°50'10
evening max el	9304 Oct 02 02:53	11° M 54'08	24°29'49	desc. node	9305 Sep 15 21:47	24° O 09'46	

retrograde	9305 Sep 26 19:11	28° Ω 40'31		asc. node	9306 Jul 30 11:41	15° Ω 04'54	
evening set	9305 Sep 30 12:25	28° Ω 10'14		evening rise	9306 Aug 06 17:25	0° Π 19'19	
min. Earth dist.	9305 Oct 07 22:10	24° Ω 49'29	0.55153 AU		9306 Aug 06 13:43	0° Π	
inferior conj	9305 Oct 09 06:13	24° Ω 03'34	-5°31'04		9306 Aug 24 00:58	0° Ω	
minimum elong	9305 Oct 09 01:35	24° Ω 10'14	5°30'31	evening max el	9306 Aug 26 07:36	2° Ω 26'44	21°15'40
morning rise	9305 Oct 17 16:40	20° Ω 14'50		desc. node	9306 Sep 02 18:57	7° Ω 33'32	
direct	9305 Oct 20 19:16	19° Ω 52'26		retrograde	9306 Sep 07 07:59	8° Ω 24'13	
morning max el	9305 Nov 01 01:35	25° Ω 09'47	20°54'15	evening set	9306 Sep 09 18:34	8° Ω 10'25	
	9305 Nov 05 10:09	0° Π		inferior conj	9306 Sep 18 23:05	4° Ω 13'55	-4°30'35
asc. node	9305 Nov 08 14:43	4° Π 27'27		minimum elong	9306 Sep 18 13:28	4° Ω 27'26	4°28'08
morning set	9305 Nov 20 11:44	26° Π 22'45		min. Earth dist.	9306 Sep 19 06:33	4° Ω 03'25	0.54650 AU
	9305 Nov 22 05:31	0° Σ		morning rise	9306 Sep 27 08:57	0° Ω 21'35	
					9306 Sep 29 02:22	30° Σ	
superior conj	9305 Nov 27 21:00	11° Σ 44'53	1°34'30	direct	9306 Oct 01 03:47	29° Π 50'40	
minimum elong	9305 Nov 27 22:43	11° Σ 53'43	1°34'39		9306 Oct 03 04:33	0° Ω	
max. Earth dist.	9305 Dec 02 17:43	21° Σ 31'02	1.35714 AU	morning max el	9306 Oct 13 20:47	5° Ω 53'56	22°32'26
evening rise	9305 Dec 06 17:34	29° Σ 08'52		asc. node	9306 Oct 26 11:40	22° Ω 48'20	
	9305 Dec 07 04:35	0° Σ			9306 Oct 30 10:12	0° Π	
desc. node	9305 Dec 12 20:22	10° Σ 06'00		morning set	9306 Nov 04 22:30	11° Π 10'57	
	9305 Dec 25 10:12	0° \approx					
evening max el	9306 Jan 11 04:45	20° \approx 45'51	26°19'34	superior conj	9306 Nov 11 23:31	26° Π 14'24	1°40'16
retrograde	9306 Jan 24 00:41	28° \approx 01'21		minimum elong	9306 Nov 11 23:58	26° Π 16'47	1°40'30
evening set	9306 Jan 30 07:24	25° \approx 29'11			9306 Nov 13 18:13	0° Σ	
min. Earth dist.	9306 Feb 03 11:19	21° \approx 09'20	0.66657 AU	max. Earth dist.	9306 Nov 15 09:34	3° Σ 24'50	1.34015 AU
asc. node	9306 Feb 04 13:55	19° \approx 48'25		evening rise	9306 Nov 19 23:32	12° Σ 37'35	
inferior conj	9306 Feb 05 04:00	19° \approx 05'14	0°11'38	desc. node	9306 Nov 29 17:25	0° Σ 22'28	
minimum elong	9306 Feb 05 03:41	19° \approx 06'12	0°11'44		9306 Nov 29 12:07	0° Σ	
transit middle	9306 Feb 05 03:41	19° \approx 06'12	0°11'44		9306 Dec 20 13:25	0° \approx	
transit begin	9306 Feb 05 01:43	19° \approx 12'14		evening max el	9306 Dec 24 18:05	4° \approx 22'40	27°07'01
transit end	9306 Feb 05 05:39	19° \approx 00'11		retrograde	9307 Jan 07 03:06	11° \approx 44'07	
morning rise	9306 Feb 11 00:47	13° \approx 20'12		evening set	9307 Jan 13 20:06	9° \approx 09'06	
direct	9306 Feb 14 02:24	12° \approx 27'03		min. Earth dist.	9307 Jan 17 18:32	5° \approx 22'57	0.65280 AU
morning max el	9306 Feb 20 16:51	16° \approx 00'41	18°34'10	inferior conj	9307 Jan 19 22:50	2° \approx 56'12	-0°50'16
	9306 Mar 03 05:37	0° Σ		minimum elong	9307 Jan 20 00:19	2° \approx 52'02	0°49'22
desc. node	9306 Mar 10 20:12	11° Σ 51'11		asc. node	9307 Jan 22 11:02	0° \approx 14'48	
morning set	9306 Mar 13 11:51	16° Σ 02'14			9307 Jan 22 17:06	30° Σ	
	9306 Mar 22 08:52	0° Υ		morning rise	9307 Jan 26 05:53	27° Σ 23'18	
				direct	9307 Jan 28 22:23	26° Σ 44'38	
superior conj	9306 Mar 29 14:22	11° Υ 19'01	-1°52'02		9307 Feb 04 05:05	0° \approx	
minimum elong	9306 Mar 29 05:23	10° Υ 43'52	1°51'22	morning max el	9307 Feb 04 08:20	0° \approx 07'56	18°02'35
max. Earth dist.	9306 Mar 29 08:13	10° Υ 54'57	1.45541 AU	morning set	9307 Feb 22 10:48	26° \approx 58'48	
	9306 Apr 10 11:33	0° Σ			9307 Feb 24 07:01	0° Σ	
evening rise	9306 Apr 14 05:43	5° Σ 57'46		desc. node	9307 Feb 25 17:03	2° Σ 19'07	
greatest brilliancy	9306 Apr 22 19:05	19° Σ 32'55	-0.8m				
	9306 Apr 29 16:28	0° Π		superior conj	9307 Mar 08 22:56	20° Σ 23'05	-1°16'09
asc. node	9306 May 03 12:27	5° Π 06'57		minimum elong	9307 Mar 08 14:31	19° Σ 49'48	1°15'05
evening max el	9306 May 05 22:57	7° Π 50'33	18°49'07	max. Earth dist.	9307 Mar 12 03:53	25° Σ 26'09	1.45419 AU
retrograde	9306 May 12 15:20	11° Π 32'01			9307 Mar 15 01:53	0° Υ	
evening set	9306 May 15 23:01	10° Π 28'39		evening rise	9307 Mar 25 02:32	15° Υ 33'18	
inferior conj	9306 May 21 12:57	4° Π 47'51	3°19'04		9307 Apr 03 12:21	0° Σ	
minimum elong	9306 May 21 13:35	4° Π 45'53	3°18'46	greatest brilliancy	9307 Apr 07 12:34	6° Σ 01'54	-0.7m
min. Earth dist.	9306 May 23 08:10	2° Π 33'17	0.65775 AU	evening max el	9307 Apr 19 05:49	21° Σ 29'46	19°36'38
	9306 May 25 13:33	30° Σ		asc. node	9307 Apr 20 09:36	22° Σ 36'23	
morning rise	9306 May 27 03:29	28° Σ 28'41		retrograde	9307 Apr 26 12:51	25° Σ 39'12	
direct	9306 Jun 02 14:17	25° Σ 42'51		evening set	9307 Apr 30 04:56	24° Σ 20'35	
desc. node	9306 Jun 06 20:12	26° Σ 42'54		inferior conj	9307 May 05 14:11	18° Σ 25'08	3°19'19
	9306 Jun 11 22:05	0° Π		minimum elong	9307 May 05 13:37	18° Σ 26'59	3°19'05
morning max el	9306 Jun 15 17:46	3° Π 31'09	26°44'35	min. Earth dist.	9307 May 06 18:27	16° Σ 51'29	0.67129 AU
	9306 Jul 05 18:33	0° Σ		morning rise	9307 May 10 21:58	12° Σ 06'17	
morning set	9306 Jul 21 13:54	27° Σ 17'19		direct	9307 May 16 22:36	9° Σ 25'46	
	9306 Jul 22 23:51	0° Ω		desc. node	9307 May 24 17:11	12° Σ 45'18	
max. Earth dist.	9306 Jul 25 18:14	5° Ω 26'00	1.34241 AU	morning max el	9307 May 29 03:38	16° Σ 44'45	25°30'19
					9307 Jun 09 03:44	0° Π	
superior conj	9306 Jul 30 06:59	14° Ω 40'28	-0°01'58		9307 Jun 28 17:16	0° Σ	
minimum elong	9306 Jul 30 07:06	14° Ω 41'05	0°02'11	morning set	9307 Jul 04 05:48	9° Σ 43'04	
behind sun begin	9306 Jul 30 01:23	14° Ω 11'21		max. Earth dist.	9307 Jul 07 21:55	16° Σ 30'32	1.36081 AU
behind sun end	9306 Jul 30 12:49	15° Ω 10'52					

superior conj	9307 Jul 13 22:13	28°☿11'39	-0°33'26	superior conj	9308 Jun 26 01:14	11°☿05'27	-1°05'58
minimum elong	9307 Jul 14 00:16	28°☿21'51	0°33'18	minimum elong	9308 Jun 26 05:28	11°☿25'36	1°05'34
	9307 Jul 14 19:51	0°♊		asc. node	9308 Jul 03 05:39	25°☿04'22	
asc. node	9307 Jul 17 08:40	5°♊08'04		evening rise	9308 Jul 04 23:19	28°☿29'45	
evening rise	9307 Jul 21 23:32	14°♊35'06			9308 Jul 05 17:42	0°♊	
	9307 Jul 29 23:21	0°♋		evening max el	9308 Jul 21 09:18	25°♊12'13	18°59'39
evening max el	9307 Aug 08 13:59	13°♋26'56	19°57'24	retrograde	9308 Jul 30 02:29	29°♊31'56	
retrograde	9307 Aug 18 22:12	18°♋33'59		evening set	9308 Aug 01 00:24	29°♊20'15	
evening set	9307 Aug 20 19:34	18°♋24'29		desc. node	9308 Aug 06 13:15	26°♊55'42	
desc. node	9307 Aug 20 16:06	18°♋25'52		inferior conj	9308 Aug 09 07:48	25°♊04'39	-0°51'16
inferior conj	9307 Aug 29 19:22	14°♋24'29	-2°46'30	minimum elong	9308 Aug 09 05:36	25°♊08'28	0°50'36
minimum elong	9307 Aug 29 11:52	14°♋35'49	2°43'53	min. Earth dist.	9308 Aug 12 06:50	23°♊01'35	0.56430 AU
min. Earth dist.	9307 Aug 31 16:49	13°♋15'50	0.55100 AU	morning rise	9308 Aug 17 07:40	20°♊12'41	
morning rise	9307 Sep 07 02:39	10°♋08'48		direct	9308 Aug 22 16:45	19°♊04'31	
direct	9307 Sep 11 16:12	9°♋23'21		morning max el	9308 Sep 05 22:12	26°♊23'02	25°58'00
morning max el	9307 Sep 25 09:07	16°♋08'29	24°19'08		9308 Sep 09 09:05	0°♋	
	9307 Oct 06 11:34	0°♌			9308 Sep 28 15:44	0°♌	
asc. node	9307 Oct 13 08:36	11°♌45'07		asc. node	9308 Sep 29 05:30	1°♌07'45	
morning set	9307 Oct 20 10:18	26°♌00'04		morning set	9308 Oct 03 21:24	10°♌44'06	
	9307 Oct 22 06:55	0°♍					
superior conj	9307 Oct 27 07:18	10°♍57'23	1°39'30	superior conj	9308 Oct 10 18:01	25°♌45'50	1°32'49
minimum elong	9307 Oct 27 06:35	10°♍53'29	1°39'40	minimum elong	9308 Oct 10 16:24	25°♌36'54	1°32'48
max. Earth dist.	9307 Oct 29 09:52	15°♍31'28	1.32739 AU	max. Earth dist.	9308 Oct 11 16:26	27°♌49'41	1.31918 AU
evening rise	9307 Nov 03 16:39	26°♍35'54			9308 Oct 12 16:05	0°♍	
	9307 Nov 05 09:22	0°♎		evening rise	9308 Oct 17 17:48	10°♍54'09	
desc. node	9307 Nov 16 14:29	20°♎18'46			9308 Oct 27 15:01	0°♎	
	9307 Nov 22 20:17	0°♏		desc. node	9308 Nov 02 11:35	9°♎45'30	
evening max el	9307 Dec 07 06:11	17°♏38'29	27°29'08		9308 Nov 18 06:44	0°♏	
retrograde	9307 Dec 20 22:42	24°♏57'40		evening max el	9308 Nov 18 14:26	0°♏18'21	27°20'12
evening set	9307 Dec 27 22:46	22°♏27'05		retrograde	9308 Dec 02 10:46	7°♏31'56	
min. Earth dist.	9307 Dec 31 16:58	19°♏12'12	0.63584 AU	evening set	9308 Dec 09 12:07	5°♏14'51	
inferior conj	9308 Jan 03 08:24	16°♏31'40	-1°58'48	min. Earth dist.	9308 Dec 13 04:52	2°♏25'24	0.61622 AU
minimum elong	9308 Jan 03 12:11	16°♏22'04	1°56'59		9308 Dec 15 21:49	30°♏♎	
asc. node	9308 Jan 09 08:07	11°♏35'34		inferior conj	9308 Dec 16 05:31	29°♎42'37	-3°11'06
morning rise	9308 Jan 10 03:32	11°♏13'59		minimum elong	9308 Dec 16 11:43	29°♎28'42	3°08'36
direct	9308 Jan 12 13:02	10°♏45'59		morning rise	9308 Dec 23 13:40	24°♎43'39	
morning max el	9308 Jan 19 01:47	14°♏08'38	17°48'13	direct	9308 Dec 25 18:49	24°♎22'44	
	9308 Jan 30 03:10	0°♐		asc. node	9308 Dec 26 05:09	24°♎23'32	
morning set	9308 Feb 04 12:39	9°♐13'50		morning max el	9309 Jan 01 18:01	27°♎53'54	17°51'55
desc. node	9308 Feb 12 13:57	22°♐56'19			9309 Jan 03 16:06	0°♑	
	9308 Feb 16 20:16	0°♒		morning set	9309 Jan 17 10:56	22°♑26'27	
					9309 Jan 21 15:37	0°♒	
superior conj	9308 Feb 17 01:40	0°♒22'05	-0°32'40	superior conj	9309 Jan 28 05:38	11°♒33'41	0°09'07
minimum elong	9308 Feb 16 22:08	0°♒07'39	0°31'59	minimum elong	9309 Jan 28 06:28	11°♒37'16	0°09'14
max. Earth dist.	9308 Feb 22 22:41	9°♒50'59	1.44576 AU	behind sun begin	9309 Jan 27 23:29	11°♒07'13	
evening rise	9308 Mar 03 13:57	24°♒54'01		behind sun end	9309 Jan 28 13:28	12°♒07'16	
	9308 Mar 06 22:04	0°♓		desc. node	9309 Jan 29 10:50	13°♒38'34	
	9308 Mar 27 19:02	0°♔		max. Earth dist.	9309 Feb 04 13:51	23°♒51'42	1.43099 AU
evening max el	9308 Apr 01 07:14	5°♔10'33	20°38'39		9309 Feb 08 09:09	0°♔	
asc. node	9308 Apr 06 06:44	9°♔05'58		evening rise	9309 Feb 11 07:11	4°♔36'42	
retrograde	9308 Apr 09 11:28	9°♔57'00			9309 Feb 28 06:49	0°♕	
evening set	9308 Apr 13 12:52	8°♔22'53		evening max el	9309 Mar 15 03:10	18°♕52'07	21°51'49
inferior conj	9308 Apr 18 20:05	2°♔14'29	3°07'27	retrograde	9309 Mar 24 09:16	24°♕20'42	
minimum elong	9308 Apr 18 18:36	2°♔19'35	3°07'05	asc. node	9309 Mar 24 03:51	24°♕20'27	
min. Earth dist.	9308 Apr 19 10:20	1°♔25'27	0.68026 AU	evening set	9309 Mar 28 21:05	22°♕31'15	
	9308 Apr 20 11:34	30°♕♔		inferior conj	9309 Apr 03 04:26	16°♕12'21	2°45'11
morning rise	9308 Apr 24 00:06	25°♕58'20		minimum elong	9309 Apr 03 02:22	16°♕19'32	2°44'39
direct	9308 Apr 29 12:01	23°♕31'56		min. Earth dist.	9309 Apr 03 05:47	16°♕07'38	0.68467 AU
	9308 May 10 09:49	0°♖		morning rise	9309 Apr 08 07:31	10°♕00'20	
morning max el	9308 May 10 12:52	0°♖07'41	24°03'28	direct	9309 Apr 13 05:37	7°♕53'30	
desc. node	9308 May 10 14:07	0°♖10'52		morning max el	9309 Apr 22 23:38	13°♕38'25	22°33'51
	9308 Jun 02 00:30	0°♗		desc. node	9309 Apr 27 11:01	18°♕36'43	
morning set	9308 Jun 15 01:48	21°♗11'24			9309 May 06 03:27	0°♘	
max. Earth dist.	9308 Jun 18 19:15	27°♗43'19	1.38252 AU		9309 May 25 22:43	0°♘	
	9308 Jun 20 01:44	0°♙		morning set	9309 May 26 20:46	1°♘29'54	
				max. Earth dist.	9309 May 31 16:54	9°♘33'46	1.40513 AU

superior conj	9309 Jun 08 11:50	23° Π 11'57	-1°36'35		9310 May 18 11:53	0° Π	
minimum elong	9309 Jun 08 17:44	23° Π 38'39	1°36'10				
	9309 Jun 12 05:06	0° \mathfrak{E}		superior conj	9310 May 21 01:16	4° Π 20'02	-2°00'43
evening rise	9309 Jun 18 13:30	11° \mathfrak{E} 54'52		minimum elong	9310 May 21 06:45	4° Π 43'29	2°00'38
asc. node	9309 Jun 20 02:39	14° \mathfrak{E} 49'47		evening rise	9310 Jun 01 13:51	24° Π 39'08	
	9309 Jun 28 17:03	0° Ω			9310 Jun 04 13:17	0° \mathfrak{E}	
evening max el	9309 Jul 04 14:31	7° Ω 38'09	18°22'54	asc. node	9310 Jun 06 23:41	4° \mathfrak{E} 18'43	
retrograde	9309 Jul 12 01:54	11° Ω 23'01		evening max el	9310 Jun 18 01:42	20° \mathfrak{E} 34'25	18°06'13
evening set	9309 Jul 14 06:12	11° Ω 04'43		retrograde	9310 Jun 24 18:36	23° \mathfrak{E} 59'36	
inferior conj	9309 Jul 21 17:57	6° Ω 29'12	0°47'43	evening set	9310 Jun 27 06:40	23° \mathfrak{E} 31'11	
minimum elong	9309 Jul 21 19:34	6° Ω 25'53	0°46'53	inferior conj	9310 Jul 04 00:40	18° \mathfrak{E} 35'38	2°00'13
desc. node	9309 Jul 24 10:22	4° Ω 17'34		minimum elong	9310 Jul 04 03:35	18° \mathfrak{E} 28'44	1°59'05
min. Earth dist.	9309 Jul 25 02:50	3° Ω 45'10	0.58380 AU	min. Earth dist.	9310 Jul 07 06:25	15° \mathfrak{E} 32'45	0.60620 AU
morning rise	9309 Jul 29 05:30	1° Ω 01'18		morning rise	9310 Jul 10 21:47	12° \mathfrak{E} 41'26	
	9309 Jul 31 14:38	30° \mathfrak{R} \mathfrak{E}		desc. node	9310 Jul 11 07:28	12° \mathfrak{E} 26'18	
direct	9309 Aug 04 07:52	29° \mathfrak{E} 23'25		direct	9310 Jul 17 11:43	10° \mathfrak{E} 33'17	
	9309 Aug 08 03:06	0° Ω		morning max el	9310 Jul 31 19:02	18° \mathfrak{E} 31'07	27°51'15
morning max el	9309 Aug 18 17:14	7° Ω 06'20	27°12'15		9310 Aug 10 10:48	0° Ω	
	9309 Sep 04 21:01	0° \mathfrak{M}			9310 Aug 28 15:23	0° \mathfrak{M}	
asc. node	9309 Sep 16 02:25	20° \mathfrak{M} 49'21		morning set	9310 Sep 02 10:46	9° \mathfrak{M} 38'21	
morning set	9309 Sep 18 06:10	25° \mathfrak{M} 18'43		asc. node	9310 Sep 02 23:19	10° \mathfrak{M} 43'40	
	9309 Sep 20 10:42	0° \mathfrak{L}		max. Earth dist.	9310 Sep 08 11:00	22° \mathfrak{M} 32'05	1.31690 AU
superior conj	9309 Sep 25 05:49	10° \mathfrak{L} 34'14	1°20'39	superior conj	9310 Sep 09 16:51	25° \mathfrak{M} 16'46	1°03'24
minimum elong	9309 Sep 25 03:40	10° \mathfrak{L} 22'20	1°20'25	minimum elong	9310 Sep 09 14:39	25° \mathfrak{M} 04'31	1°02'58
max. Earth dist.	9309 Sep 25 02:03	10° \mathfrak{L} 13'20	1.31568 AU		9310 Sep 11 20:02	0° \mathfrak{L}	
evening rise	9309 Oct 02 00:31	25° \mathfrak{L} 25'52		evening rise	9310 Sep 16 10:36	10° \mathfrak{L} 04'42	
	9309 Oct 04 04:48	0° \mathfrak{M}			9310 Sep 26 12:56	0° \mathfrak{M}	
desc. node	9309 Oct 20 08:43	28° \mathfrak{M} 31'06		desc. node	9310 Oct 07 05:53	16° \mathfrak{M} 19'29	
	9309 Oct 21 09:37	0° \mathfrak{J}		evening max el	9310 Oct 13 10:10	23° \mathfrak{M} 13'09	25°23'00
evening max el	9309 Oct 31 16:17	12° \mathfrak{J} 11'06	26°37'14		9310 Oct 24 21:46	0° \mathfrak{J}	
retrograde	9309 Nov 14 14:24	19° \mathfrak{J} 18'35		retrograde	9310 Oct 27 07:45	0° \mathfrak{J} 13'41	
evening set	9309 Nov 21 08:01	17° \mathfrak{J} 25'25			9310 Oct 29 17:41	30° \mathfrak{R} \mathfrak{M}	
min. Earth dist.	9309 Nov 25 06:03	14° \mathfrak{J} 49'48	0.59519 AU	evening set	9310 Nov 02 05:41	28° \mathfrak{M} 53'24	
inferior conj	9309 Nov 28 10:42	12° \mathfrak{J} 19'48	-4°21'00	min. Earth dist.	9310 Nov 06 22:17	26° \mathfrak{M} 14'28	0.57488 AU
minimum elong	9309 Nov 28 18:19	12° \mathfrak{J} 04'52	4°18'38	inferior conj	9310 Nov 09 20:48	24° \mathfrak{M} 14'29	-5°16'45
morning rise	9309 Dec 06 07:08	7° \mathfrak{J} 42'31		minimum elong	9310 Nov 10 02:52	24° \mathfrak{M} 04'07	5°15'35
direct	9309 Dec 08 11:29	7° \mathfrak{J} 25'21		morning rise	9310 Nov 18 02:22	19° \mathfrak{M} 59'42	
asc. node	9309 Dec 13 02:11	8° \mathfrak{J} 46'32		direct	9310 Nov 20 10:55	19° \mathfrak{M} 43'03	
morning max el	9309 Dec 16 05:33	11° \mathfrak{J} 14'23	18°15'01	morning max el	9310 Nov 29 08:36	23° \mathfrak{M} 59'35	18°59'13
	9309 Dec 28 14:58	0° \mathfrak{Z}		asc. node	9310 Nov 29 23:11	24° \mathfrak{M} 35'43	
morning set	9309 Dec 31 23:43	6° \mathfrak{Z} 19'00			9310 Dec 04 08:10	0° \mathfrak{J}	
superior conj	9310 Jan 10 09:15	23° \mathfrak{Z} 52'15	0°43'57	morning set	9310 Dec 15 22:32	20° \mathfrak{J} 38'34	
minimum elong	9310 Jan 10 12:12	24° \mathfrak{Z} 05'36	0°43'48		9310 Dec 20 16:17	0° \mathfrak{Z}	
	9310 Jan 13 19:30	0° \approx		superior conj	9310 Dec 24 07:44	7° \mathfrak{Z} 04'03	1°10'12
desc. node	9310 Jan 16 07:45	4° \approx 22'25		minimum elong	9310 Dec 24 10:56	7° \mathfrak{Z} 19'20	1°10'05
max. Earth dist.	9310 Jan 17 23:53	7° \approx 14'04	1.41161 AU	max. Earth dist.	9310 Dec 31 06:07	19° \mathfrak{Z} 54'03	1.38995 AU
evening rise	9310 Jan 22 17:58	15° \approx 08'28		desc. node	9311 Jan 03 04:43	25° \mathfrak{Z} 04'29	
	9310 Feb 01 05:04	0° \mathfrak{H}		evening rise	9311 Jan 04 02:35	26° \mathfrak{Z} 38'37	
	9310 Feb 23 08:03	0° \mathfrak{Y}			9311 Jan 06 02:02	0° \approx	
evening max el	9310 Feb 25 18:56	2° \mathfrak{Y} 35'54	23°11'15		9311 Jan 25 19:05	0° \mathfrak{H}	
retrograde	9310 Mar 08 04:44	8° \mathfrak{Y} 45'29		evening max el	9311 Feb 08 08:41	16° \mathfrak{H} 23'39	24°30'49
asc. node	9310 Mar 11 01:00	8° \mathfrak{Y} 05'54		retrograde	9311 Feb 19 20:33	23° \mathfrak{H} 06'58	
evening set	9310 Mar 13 03:57	6° \mathfrak{Y} 41'32		evening set	9311 Feb 25 07:59	20° \mathfrak{H} 49'57	
min. Earth dist.	9310 Mar 18 02:34	0° \mathfrak{Y} 52'20	0.68478 AU	asc. node	9311 Feb 25 22:08	20° \mathfrak{H} 18'17	
inferior conj	9310 Mar 18 13:16	0° \mathfrak{Y} 15'23	2°13'29	min. Earth dist.	9311 Mar 01 22:29	15° \mathfrak{H} 35'22	0.68082 AU
minimum elong	9310 Mar 18 11:03	0° \mathfrak{Y} 23'04	2°12'51	inferior conj	9311 Mar 02 20:47	14° \mathfrak{H} 20'48	1°32'55
	9310 Mar 18 17:44	30° \mathfrak{R} \mathfrak{H}		minimum elong	9311 Mar 02 18:52	14° \mathfrak{H} 27'13	1°32'21
morning rise	9310 Mar 23 18:05	24° \mathfrak{H} 08'43		morning rise	9311 Mar 08 05:53	8° \mathfrak{H} 20'56	
direct	9310 Mar 28 02:30	22° \mathfrak{H} 23'46		direct	9311 Mar 12 01:23	6° \mathfrak{H} 57'43	
morning max el	9310 Apr 05 15:12	27° \mathfrak{H} 18'48	21°09'47	morning max el	9311 Mar 19 14:09	11° \mathfrak{H} 11'18	19°57'22
	9310 Apr 08 03:20	0° \mathfrak{Y}		desc. node	9311 Apr 01 04:46	27° \mathfrak{H} 27'09	
desc. node	9310 Apr 14 07:53	7° \mathfrak{Y} 45'57			9311 Apr 02 22:35	0° \mathfrak{Y}	
	9310 Apr 29 16:27	0° \mathfrak{B}		morning set	9311 Apr 15 11:48	18° \mathfrak{Y} 57'54	
morning set	9310 May 06 12:50	10° \mathfrak{B} 34'57			9311 Apr 22 14:00	0° \mathfrak{B}	
max. Earth dist.	9310 May 13 19:43	22° \mathfrak{B} 15'14	1.42598 AU	max. Earth dist.	9311 Apr 26 05:48	5° \mathfrak{B} 47'23	1.44254 AU

superior conj	9311 May 01 14:24	14°  24'50	-2°12'17	max. Earth dist.	9312 Apr 07 22:11	19°  57'39	1.45283 AU
minimum elong	9311 May 01 15:29	14°  29'13	2°12'28				
	9311 May 10 23:35	0°  II		superior conj	9312 Apr 10 05:27	23°  35'01	-2°05'19
evening rise	9311 May 14 19:43	6°  II32'25		minimum elong	9312 Apr 09 23:19	23°  10'53	2°05'07
asc. node	9311 May 24 20:45	23°  II25'22			9312 Apr 14 06:44	0°  8	
	9311 May 29 07:58	0°  ☿		evening rise	9312 Apr 25 02:55	17°  827'31	
evening max el	9311 Jun 01 15:15	3°  ☿51'44	18°08'34		9312 May 02 19:54	0°  II	
retrograde	9311 Jun 08 00:27	7°  ☿12'20		asc. node	9312 May 10 17:50	12°  II02'17	
evening set	9311 Jun 10 20:11	6°  ☿31'17		evening max el	9312 May 15 04:02	17°  II22'10	18°29'14
inferior conj	9311 Jun 17 00:13	1°  ☿16'50	2°46'59	retrograde	9312 May 21 15:11	20°  II52'13	
minimum elong	9311 Jun 17 02:43	1°  ☿10'05	2°46'10	evening set	9312 May 24 18:30	19°  II57'05	
	9311 Jun 18 04:38	30°  R  II		inferior conj	9312 May 30 12:31	14°  II25'18	3°12'23
min. Earth dist.	9311 Jun 19 18:48	28°  II18'48	0.62842 AU	minimum elong	9312 May 30 13:53	14°  II21'13	3°11'57
morning rise	9311 Jun 23 07:34	25°  II07'02		min. Earth dist.	9312 Jun 01 16:26	11°  II51'15	0.64811 AU
desc. node	9311 Jun 28 04:32	22°  II46'54		morning rise	9312 Jun 05 08:22	8°  II07'59	
direct	9311 Jun 30 01:29	22°  II35'37		direct	9312 Jun 11 23:18	5°  II24'20	
	9311 Jul 13 10:38	0°  ☿		desc. node	9312 Jun 14 01:34	5°  II38'52	
morning max el	9311 Jul 14 02:07	0°  ☿38'17	27°51'58	morning max el	9312 Jun 25 12:15	13°  II21'07	27°17'38
	9311 Aug 04 13:41	0°  ♊			9312 Jul 08 21:54	0°  ☿	
morning set	9311 Aug 17 09:07	23°  ♊37'04			9312 Jul 27 04:32	0°  ♊	
	9311 Aug 20 11:30	0°  ♊		morning set	9312 Jul 30 22:32	7°  ♊07'52	
asc. node	9311 Aug 20 20:15	0°  ♊45'55		max. Earth dist.	9312 Aug 04 12:05	16°  ♊16'11	1.33394 AU
max. Earth dist.	9311 Aug 22 15:31	4°  ♊35'38	1.32296 AU	asc. node	9312 Aug 06 17:11	20°  ♊51'55	
superior conj	9311 Aug 25 01:18	9°  ♊47'43	0°41'20	superior conj	9312 Aug 08 05:06	24°  ♊01'16	0°14'57
minimum elong	9311 Aug 24 23:32	9°  ♊38'05	0°40'51	minimum elong	9312 Aug 08 04:21	23°  ♊57'18	0°14'36
evening rise	9311 Aug 31 22:09	24°  ♊44'55		behind sun begin	9312 Aug 08 02:03	23°  ♊45'06	
	9311 Sep 03 09:54	0°  ♋		behind sun end	9312 Aug 08 06:39	24°  ♊09'32	
	9311 Sep 21 13:22	0°  ♋			9312 Aug 11 00:18	0°  ♊	
desc. node	9311 Sep 24 03:04	2°  ♋48'18		evening rise	9312 Aug 15 09:15	9°  ♊20'59	
evening max el	9311 Sep 24 21:59	3°  ♋35'05	23°47'53		9312 Aug 26 02:31	0°  ♋	
retrograde	9311 Oct 08 12:24	10°  ♋23'01		evening max el	9312 Sep 05 10:50	13°  ♋46'34	22°08'29
evening set	9311 Oct 13 02:43	9°  ♋36'54		desc. node	9312 Sep 10 00:15	17°  ♋29'12	
min. Earth dist.	9311 Oct 19 08:23	6°  ♋36'19	0.55824 AU	retrograde	9312 Sep 18 05:18	20°  ♋07'58	
inferior conj	9311 Oct 21 10:35	5°  ♋20'55	-5°40'06	evening set	9312 Sep 21 08:10	19°  ♋46'21	
minimum elong	9311 Oct 21 10:34	5°  ♋20'56	5°39'57	min. Earth dist.	9312 Sep 29 16:04	16°  ♋08'00	0.54829 AU
morning rise	9311 Oct 29 20:23	1°  ♋25'24		inferior conj	9312 Sep 30 08:06	15°  ♋45'32	-5°12'14
direct	9311 Nov 01 15:16	1°  ♋05'52		minimum elong	9312 Sep 30 00:33	15°  ♋56'07	5°10'54
morning max el	9311 Nov 11 23:41	5°  ♋58'53	20°05'56	morning rise	9312 Oct 08 18:29	11°  ♋58'07	
asc. node	9311 Nov 16 20:11	11°  ♋35'29		direct	9312 Oct 12 03:58	11°  ♋32'32	
	9311 Nov 27 13:23	0°  ♌		morning max el	9312 Oct 24 01:29	17°  ♋08'43	21°34'11
morning set	9311 Nov 30 03:54	5°  ♌14'47		asc. node	9312 Nov 02 17:09	29°  ♋30'47	
					9312 Nov 03 00:22	0°  ♋	
superior conj	9311 Dec 07 20:07	20°  ♌54'33	1°27'53	morning set	9312 Nov 13 13:18	20°  ♋00'37	
minimum elong	9311 Dec 07 22:31	21°  ♌06'35	1°27'58		9312 Nov 18 06:56	0°  ♌	
	9311 Dec 12 11:16	0°  ♍					
max. Earth dist.	9311 Dec 13 12:44	2°  ♍01'18	1.36852 AU	superior conj	9312 Nov 20 18:27	5°  ♌12'45	1°37'46
evening rise	9311 Dec 17 07:35	9°  ♍01'43		minimum elong	9312 Nov 20 19:38	5°  ♌18'55	1°38'00
desc. node	9311 Dec 21 01:44	15°  ♍40'13		max. Earth dist.	9312 Nov 25 00:28	13°  ♌55'14	1.34946 AU
	9311 Dec 29 19:35	0°  ♍		evening rise	9312 Nov 29 05:32	22°  ♌09'06	
	9312 Jan 21 16:55	0°  ♎			9312 Dec 03 11:24	0°  ♍	
evening max el	9312 Jan 21 22:02	0°  ♎12'33	25°43'39	desc. node	9312 Dec 06 22:46	6°  ♍05'15	
retrograde	9312 Feb 03 07:39	7°  ♎18'48			9312 Dec 22 14:22	0°  ♍	
evening set	9312 Feb 09 07:33	4°  ♎51'10		evening max el	9313 Jan 03 11:25	13°  ♍55'57	26°42'21
asc. node	9312 Feb 12 19:16	1°  ♎12'44		retrograde	9313 Jan 16 13:16	21°  ♍14'28	
min. Earth dist.	9312 Feb 13 15:09	0°  ♎11'26	0.67290 AU	evening set	9313 Jan 23 00:49	18°  ♍40'13	
	9312 Feb 13 18:47	30°  R  ♍		min. Earth dist.	9313 Jan 27 02:19	14°  ♍35'05	0.66120 AU
inferior conj	9312 Feb 15 01:02	28°  ♍23'57	0°43'46	inferior conj	9313 Jan 28 23:57	12°  ♍20'31	-0°13'40
minimum elong	9312 Feb 14 23:58	28°  ♍27'21	0°43'32	minimum elong	9313 Jan 29 00:20	12°  ♍19'24	0°13'17
morning rise	9312 Feb 20 16:52	22°  ♍32'51		transit middle	9313 Jan 29 00:20	12°  ♍19'24	0°13'17
direct	9312 Feb 24 00:41	21°  ♍29'27		transit begin	9313 Jan 28 22:41	12°  ♍24'17	
morning max el	9312 Mar 01 20:53	25°  ♍13'47	18°59'53	transit end	9313 Jan 29 01:59	12°  ♍14'32	
	9312 Mar 06 00:30	0°  ♎		asc. node	9313 Jan 29 16:24	11°  ♍32'15	
greatest brilliancy	9312 Mar 15 16:15	13°  ♎51'45	-0.8m	morning rise	9313 Feb 04 00:52	6°  ♍40'25	
desc. node	9312 Mar 18 01:38	17°  ♎31'12		direct	9313 Feb 06 22:28	5°  ♍53'47	
morning set	9312 Mar 24 16:34	27°  ♎45'44		morning max el	9313 Feb 13 09:56	9°  ♍21'18	18°18'41
	9312 Mar 26 03:09	0°  ♏			9313 Feb 28 00:36	0°  ♎	

morning set	9313 Mar 04 22:21	7° X 51'11	morning rise	9314 Jan 19 03:12	20° Z 38'42
desc. node	9313 Mar 04 22:30	7° X 51'44	direct	9314 Jan 21 16:25	20° Z 05'07
	9313 Mar 18 21:34	0° Y	morning max el	9314 Jan 28 02:41	23° Z 26'52 17°54'23
				9314 Feb 02 09:21	0° Z
superior conj	9313 Mar 20 10:48	2° Y 25'56 -1°38'25	morning set	9314 Feb 14 09:23	19° Z 22'57
minimum elong	9313 Mar 20 01:12	1° Y 48'20 1°37'29	desc. node	9314 Feb 19 19:22	28° Z 24'00
max. Earth dist.	9313 Mar 21 17:44	4° Y 27'01 1.45584 AU		9314 Feb 20 18:39	0° X
evening rise	9313 Apr 05 10:47	27° Y 27'06			
	9313 Apr 07 01:49	0° Z	superior conj	9314 Feb 28 01:32	11° X 49'32 -0°58'02
greatest brilliancy	9313 Apr 16 05:20	14° Z 14'24 -0.8m	minimum elong	9314 Feb 27 19:00	11° X 23'23 0°57'02
asc. node	9313 Apr 27 14:57	29° Z 59'35	max. Earth dist.	9314 Mar 04 13:10	18° X 56'49 1.45137 AU
	9313 Apr 27 15:06	0° II		9314 Mar 11 15:03	0° Y
evening max el	9313 Apr 28 13:30	0° II 58'57 19°07'20	evening rise	9314 Mar 16 01:47	6° Y 51'32
retrograde	9313 May 05 11:11	4° II 51'08	greatest brilliancy	9314 Mar 30 21:42	29° Y 13'34 -0.6m
evening set	9313 May 08 22:22	3° II 41'12		9314 Mar 31 10:28	0° Z
	9313 May 12 17:38	30° R 8	evening max el	9314 Apr 11 18:01	14° Z 38'45 20°01'23
inferior conj	9313 May 14 09:55	27° Z 53'41 3°20'50	asc. node	9314 Apr 14 12:05	17° Z 05'30
minimum elong	9313 May 14 10:01	27° Z 53'21 3°20'34	retrograde	9314 Apr 19 09:33	19° Z 03'33
min. Earth dist.	9313 May 15 22:34	25° Z 56'04 0.66403 AU	evening set	9314 Apr 23 05:23	17° Z 38'27
morning rise	9313 May 19 21:13	21° Z 34'14	inferior conj	9314 Apr 28 13:27	11° Z 37'04 3°15'40
direct	9313 May 26 03:58	18° Z 49'46	minimum elong	9314 Apr 28 12:28	11° Z 40'25 3°15'23
desc. node	9313 May 31 22:34	20° Z 40'28	min. Earth dist.	9314 Apr 29 11:37	10° Z 22'09 0.67558 AU
morning max el	9313 Jun 07 22:52	26° Z 27'22 26°15'17	morning rise	9314 May 03 19:15	5° Z 18'52
	9313 Jun 11 05:35	0° II	direct	9314 May 09 14:35	2° Z 43'32
	9313 Jul 02 12:09	0° Z	desc. node	9314 May 18 19:29	7° Z 21'29
morning set	9313 Jul 13 23:31	20° Z 00'34	morning max el	9314 May 21 08:31	9° Z 46'26 24°54'23
max. Earth dist.	9313 Jul 17 22:02	27° Z 31'09 1.34976 AU		9314 Jun 06 08:18	0° II
	9313 Jul 19 04:22	0° Z		9314 Jun 25 03:29	0° Z
			morning set	9314 Jun 26 07:40	2° Z 04'13
superior conj	9313 Jul 23 01:42	7° Z 49'37 -0°15'02	max. Earth dist.	9314 Jun 29 22:14	8° Z 35'19 1.36973 AU
minimum elong	9313 Jul 23 02:35	7° Z 54'06 0°15'07			
behind sun begin	9313 Jul 23 00:31	7° Z 43'32	superior conj	9314 Jul 06 12:12	21° Z 06'01 -0°47'14
behind sun end	9313 Jul 23 04:39	8° Z 04'40	minimum elong	9314 Jul 06 15:10	21° Z 20'33 0°46'59
asc. node	9313 Jul 24 14:07	10° Z 56'56		9314 Jul 10 23:38	0° Z
evening rise	9313 Jul 30 17:50	23° Z 45'49	asc. node	9314 Jul 11 11:05	0° Z 57'40
	9313 Aug 02 19:11	0° Z	evening rise	9314 Jul 14 21:38	7° Z 53'38
evening max el	9313 Aug 18 09:20	24° Z 21'45 20°39'54		9314 Jul 27 04:56	0° Z
desc. node	9313 Aug 27 21:25	29° Z 50'25	evening max el	9314 Jul 31 21:27	5° Z 41'15 19°30'13
retrograde	9313 Aug 29 17:28	29° Z 59'01	retrograde	9314 Aug 10 12:35	10° Z 27'13
evening set	9313 Aug 31 20:10	29° Z 48'07	evening set	9314 Aug 12 08:45	10° Z 17'32
inferior conj	9313 Sep 10 00:32	25° Z 51'25 -3°50'01	desc. node	9314 Aug 14 18:32	9° Z 37'47
minimum elong	9313 Sep 09 15:02	26° Z 05'02 3°47'08	inferior conj	9314 Aug 21 02:33	6° Z 12'07 -1°56'59
min. Earth dist.	9313 Sep 11 00:52	25° Z 16'27 0.54724 AU	minimum elong	9314 Aug 20 21:16	6° Z 20'33 1°55'07
morning rise	9313 Sep 18 09:44	21° Z 51'33	min. Earth dist.	9314 Aug 23 12:53	4° Z 39'03 0.55572 AU
direct	9313 Sep 22 12:01	21° Z 15'38	morning rise	9314 Aug 29 07:17	1° Z 41'16
morning max el	9313 Oct 05 16:59	27° Z 37'13 23°17'44	direct	9314 Sep 03 05:01	0° Z 47'09
	9313 Oct 08 01:32	0° Z	morning max el	9314 Sep 17 04:56	7° Z 48'28 25°03'07
asc. node	9313 Oct 20 14:05	18° Z 07'45		9314 Oct 03 12:04	0° Z
	9313 Oct 26 17:20	0° Z	asc. node	9314 Oct 07 11:00	7° Z 16'11
morning set	9313 Oct 29 00:42	4° Z 49'33	morning set	9314 Oct 13 12:22	19° Z 36'43
				9314 Oct 18 06:53	0° Z
superior conj	9313 Nov 04 23:30	19° Z 48'38 1°40'42			
minimum elong	9313 Nov 04 23:26	19° Z 48'16 1°40'55	superior conj	9314 Oct 20 08:48	4° Z 34'42 1°37'22
max. Earth dist.	9313 Nov 07 19:52	25° Z 52'46 1.33413 AU	minimum elong	9314 Oct 20 07:39	4° Z 28'27 1°37'27
	9313 Nov 09 19:18	0° Z	max. Earth dist.	9314 Oct 21 22:53	8° Z 03'14 1.32329 AU
evening rise	9313 Nov 12 16:36	5° Z 50'47	evening rise	9314 Oct 27 13:28	19° Z 58'15
desc. node	9313 Nov 23 19:51	26° Z 13'45		9314 Nov 01 14:57	0° Z
	9313 Nov 26 02:55	0° Z	desc. node	9314 Nov 10 16:56	15° Z 58'24
evening max el	9313 Dec 17 00:11	27° Z 24'09 27°19'50		9314 Nov 20 06:49	0° Z
	9313 Dec 19 22:39	0° Z	evening max el	9314 Nov 29 10:50	10° Z 25'38 27°29'25
retrograde	9313 Dec 30 12:55	4° Z 45'54	retrograde	9314 Dec 13 05:44	17° Z 43'35
evening set	9314 Jan 06 09:35	2° Z 11'23	evening set	9314 Dec 20 07:03	15° Z 17'25
	9314 Jan 08 22:01	30° R 3	min. Earth dist.	9314 Dec 24 00:02	12° Z 14'19 0.62767 AU
min. Earth dist.	9314 Jan 10 05:52	28° Z 39'18 0.64594 AU	inferior conj	9314 Dec 26 19:49	9° Z 30'56 -2°29'21
inferior conj	9314 Jan 12 15:10	26° Z 05'09 -1°18'39	minimum elong	9314 Dec 27 00:39	9° Z 19'15 2°27'10
minimum elong	9314 Jan 12 17:34	25° Z 58'39 1°17'22	morning rise	9315 Jan 02 20:28	4° Z 20'55
asc. node	9314 Jan 16 13:29	22° Z 15'21	asc. node	9315 Jan 03 10:34	4° Z 10'07

direct	9315 Jan 05 03:36	3°♄56'30		inferior conj	9315 Dec 09 10:41	22°♄29'36	-3°41'37
morning max el	9315 Jan 11 20:03	7°♄22'03	17°47'32	minimum elong	9315 Dec 09 17:41	22°♄14'41	3°39'02
	9315 Jan 26 16:22	0°♄		morning rise	9315 Dec 17 00:14	17°♄39'13	
morning set	9315 Jan 27 20:43	2°♄04'32		direct	9315 Dec 19 04:29	17°♄20'18	
desc. node	9315 Feb 06 16:15	19°♄03'32		asc. node	9315 Dec 21 07:36	17°♄39'09	
				morning max el	9315 Dec 26 10:44	20°♄58'16	17°59'13
superior conj	9315 Feb 08 14:47	22°♄18'51	-0°14'22		9316 Jan 02 06:00	0°♄	
minimum elong	9315 Feb 08 13:21	22°♄12'51	0°13'55	morning set	9316 Jan 11 01:55	15°♄36'41	
behind sun begin	9315 Feb 08 08:46	21°♄53'41			9316 Jan 18 23:07	0°♄	
behind sun end	9315 Feb 08 17:56	22°♄31'59					
	9315 Feb 13 06:49	0°♄		superior conj	9316 Jan 21 05:20	4°♄00'23	0°24'53
max. Earth dist.	9315 Feb 15 06:08	3°♄11'07	1.44008 AU	minimum elong	9316 Jan 21 07:20	4°♄09'11	0°24'50
evening rise	9315 Feb 23 13:46	16°♄16'43		desc. node	9316 Jan 24 13:12	9°♄47'06	
	9315 Mar 04 15:00	0°♄		max. Earth dist.	9316 Jan 28 19:13	16°♄57'04	1.42323 AU
evening max el	9315 Mar 25 17:01	28°♄19'36	21°08'45	evening rise	9316 Feb 03 13:37	26°♄18'50	
	9315 Mar 27 11:15	0°♄			9316 Feb 05 21:41	0°♄	
asc. node	9315 Apr 01 09:13	3°♄04'52			9316 Feb 26 10:37	0°♄	
retrograde	9315 Apr 03 08:01	3°♄23'56		evening max el	9316 Mar 07 11:07	12°♄02'25	22°25'13
evening set	9315 Apr 07 13:37	1°♄43'29		retrograde	9316 Mar 17 04:52	17°♄48'21	
	9315 Apr 09 08:54	30°♄		asc. node	9316 Mar 18 06:20	17°♄42'45	
inferior conj	9315 Apr 12 20:39	25°♄30'24	2°59'12	evening set	9316 Mar 21 21:25	15°♄52'44	
minimum elong	9315 Apr 12 18:53	25°♄36'33	2°58'47	inferior conj	9316 Mar 27 05:27	9°♄30'35	2°32'49
min. Earth dist.	9315 Apr 13 05:23	25°♄00'06	0.68264 AU	minimum elong	9316 Mar 27 03:16	9°♄38'10	2°32'15
morning rise	9315 Apr 17 23:55	19°♄15'38		min. Earth dist.	9316 Mar 27 01:39	9°♄43'45	0.68529 AU
direct	9315 Apr 23 06:04	16°♄56'49		morning rise	9316 Apr 01 08:57	3°♄20'43	
morning max el	9315 May 03 17:54	23°♄11'52	23°25'06	direct	9316 Apr 06 01:18	1°♄22'50	
desc. node	9315 May 05 16:24	25°♄14'41		morning max el	9316 Apr 15 06:07	6°♄45'24	21°56'56
	9315 May 09 17:38	0°♄		desc. node	9316 Apr 21 13:19	14°♄00'21	
	9315 May 30 17:04	0°♄			9316 May 03 03:32	0°♄	
morning set	9315 Jun 07 17:34	13°♄04'05		morning set	9316 May 18 00:45	22°♄49'25	
max. Earth dist.	9315 Jun 11 18:16	19°♄58'22	1.39216 AU		9316 May 22 10:29	0°♄	
	9315 Jun 17 08:55	0°♄		max. Earth dist.	9316 May 23 17:44	2°♄09'49	1.41442 AU
superior conj	9315 Jun 19 08:47	3°♄40'59	-1°19'24	superior conj	9316 May 31 10:57	15°♄23'46	-1°47'56
minimum elong	9315 Jun 19 13:52	4°♄04'37	1°18'58	minimum elong	9316 May 31 17:03	15°♄50'42	1°47'38
asc. node	9315 Jun 28 08:05	20°♄49'47			9316 Jun 08 12:51	0°♄	
evening rise	9315 Jun 28 17:44	21°♄36'28		evening rise	9316 Jun 11 02:32	4°♄45'07	
	9315 Jul 03 03:18	0°♄		asc. node	9316 Jun 14 05:06	10°♄28'38	
evening max el	9315 Jul 14 21:33	17°♄45'28	18°41'34		9316 Jun 26 19:44	0°♄	
retrograde	9315 Jul 23 00:33	21°♄48'03		evening max el	9316 Jun 27 05:49	0°♄25'29	18°13'27
evening set	9315 Jul 25 00:55	21°♄34'01		retrograde	9316 Jul 04 07:45	3°♄59'51	
desc. node	9315 Aug 01 15:38	17°♄26'05		evening set	9316 Jul 06 15:28	3°♄37'30	
inferior conj	9315 Aug 02 00:01	17°♄10'32	-0°06'23		9316 Jul 12 12:01	30°♄	
minimum elong	9315 Aug 01 23:45	17°♄11'01	0°06'30	inferior conj	9316 Jul 13 19:14	28°♄53'07	1°21'48
transit middle	9315 Aug 01 23:45	17°♄11'01	0°06'30	minimum elong	9316 Jul 13 21:40	28°♄47'47	1°20'43
transit begin	9315 Aug 01 20:24	17°♄17'15		min. Earth dist.	9316 Jul 17 04:01	25°♄58'26	0.59319 AU
transit end	9315 Aug 02 03:06	17°♄04'46		desc. node	9316 Jul 18 12:45	23°♄53'35	
min. Earth dist.	9315 Aug 05 05:17	14°♄47'37	0.57206 AU	morning rise	9316 Jul 21 00:45	23°♄13'04	
morning rise	9315 Aug 09 19:07	12°♄02'39		direct	9316 Jul 27 09:02	21°♄22'04	
direct	9315 Aug 15 12:23	10°♄42'03		morning max el	9316 Aug 10 17:46	29°♄11'28	27°33'33
morning max el	9315 Aug 29 20:00	18°♄12'13	26°33'15		9316 Aug 11 13:08	0°♄	
	9315 Sep 08 16:46	0°♄			9316 Sep 01 14:35	0°♄	
asc. node	9315 Sep 24 07:55	26°♄47'53		asc. node	9316 Sep 10 04:49	16°♄35'36	
	9315 Sep 25 21:35	0°♄		morning set	9316 Sep 11 05:56	18°♄46'31	
morning set	9315 Sep 27 22:42	4°♄17'35			9316 Sep 16 10:37	0°♄	
				max. Earth dist.	9316 Sep 17 17:09	2°♄48'57	1.31566 AU
superior conj	9315 Oct 04 20:14	19°♄24'23	1°28'19	superior conj	9316 Sep 18 07:56	4°♄11'00	1°13'58
minimum elong	9315 Oct 04 18:21	19°♄13'55	1°28'12	minimum elong	9316 Sep 18 05:42	3°♄58'36	1°13'37
max. Earth dist.	9315 Oct 05 07:10	20°♄25'04	1.31713 AU	evening rise	9316 Sep 25 01:44	18°♄59'40	
	9315 Oct 09 15:53	0°♄			9316 Sep 30 10:14	0°♄	
evening rise	9315 Oct 11 17:19	4°♄23'50		desc. node	9316 Oct 14 11:12	23°♄33'15	
	9315 Oct 25 07:47	0°♄			9316 Oct 19 12:57	0°♄	
desc. node	9315 Oct 28 14:03	5°♄09'35		evening max el	9316 Oct 23 15:40	4°♄19'43	26°09'04
evening max el	9315 Nov 11 16:57	22°♄47'59	27°06'12	retrograde	9316 Nov 06 13:35	11°♄23'32	
retrograde	9315 Nov 25 14:29	29°♄58'41		evening set	9316 Nov 13 00:34	9°♄43'40	
evening set	9315 Dec 02 13:36	27°♄50'55		min. Earth dist.	9316 Nov 17 04:37	7°♄09'01	0.58638 AU
min. Earth dist.	9315 Dec 06 07:38	25°♄08'44	0.60731 AU				

inferior conj	9316 Nov 20 08:07	4° ♊ 50'01	-4°47'16	minimum elong	9317 Nov 01 13:27	16° ♍ 17'27	5°31'13
minimum elong	9316 Nov 20 15:34	4° ♊ 36'15	4°45'19	morning rise	9317 Nov 09 17:30	12° ♍ 18'31	
morning rise	9316 Nov 28 08:56	0° ♊ 22'08		direct	9317 Nov 12 05:48	12° ♍ 01'03	
direct	9316 Nov 30 14:34	0° ♊ 05'27		morning max el	9317 Nov 21 17:23	16° ♍ 31'27	19°24'49
asc. node	9316 Dec 07 04:38	2° ♊ 40'23		asc. node	9317 Nov 24 01:38	19° ♍ 01'22	
morning max el	9316 Dec 08 19:04	4° ♊ 04'46	18°31'06		9317 Dec 01 11:04	0° ♊	
morning set	9316 Dec 24 19:28	29° ♊ 42'23		morning set	9317 Dec 08 21:22	14° ♊ 09'48	
	9316 Dec 24 23:08	0° ♋					
superior conj	9317 Jan 02 17:36	16° ♋ 43'21	0°56'09	superior conj	9317 Dec 16 22:33	0° ♋ 13'15	1°18'42
minimum elong	9317 Jan 02 20:50	16° ♋ 58'20	0°55'59	minimum elong	9317 Dec 17 01:29	0° ♋ 27'37	1°18'40
max. Earth dist.	9317 Jan 10 03:51	0° \approx 03'17	1.40260 AU		9317 Dec 16 19:50	0° ♋	
desc. node	9317 Jan 10 10:10	0° \approx 30'34		max. Earth dist.	9317 Dec 23 09:39	12° ♋ 27'24	1.38068 AU
	9317 Jan 10 03:06	0° \approx		evening rise	9317 Dec 27 03:09	19° ♋ 08'17	
evening rise	9317 Jan 14 09:35	7° \approx 15'14		desc. node	9317 Dec 28 07:09	21° ♋ 10'18	
	9317 Jan 28 23:21	0° ♌			9318 Jan 02 13:07	0° \approx	
evening max el	9317 Feb 18 01:51	25° ♌ 48'01	23°45'26	evening max el	9318 Jan 23 04:17	0° ♌	
	9317 Feb 23 00:10	0° ♍		retrograde	9318 Jan 31 15:04	9° ♌ 35'52	25°03'00
retrograde	9317 Feb 28 22:48	2° ♍ 12'29		evening set	9318 Feb 12 12:48	16° ♌ 30'46	
asc. node	9317 Mar 05 03:29	0° ♍ 48'20		asc. node	9318 Feb 18 05:39	14° ♌ 08'32	
evening set	9317 Mar 06 03:18	0° ♍ 02'33		min. Earth dist.	9318 Feb 20 00:38	12° ♌ 24'05	
	9317 Mar 06 04:29	30° ♌		inferior conj	9318 Feb 22 16:58	9° ♌ 08'58	0.67792 AU
min. Earth dist.	9317 Mar 10 22:14	24° ♌ 28'21	0.68365 AU	minimum elong	9318 Feb 23 20:18	7° ♌ 39'24	1°13'07
inferior conj	9317 Mar 11 13:57	23° ♌ 34'45	1°57'21	morning rise	9318 Feb 23 18:40	7° ♌ 44'45	1°12'38
minimum elong	9317 Mar 11 11:47	23° ♌ 42'06	1°56'42	direct	9318 Mar 01 07:59	1° ♌ 43'16	
morning rise	9317 Mar 16 20:18	17° ♌ 31'03		morning max el	9318 Mar 04 22:16	0° ♌ 29'00	
direct	9317 Mar 20 23:08	15° ♌ 55'31		greatest brilliancy	9318 Mar 12 03:09	4° ♌ 28'41	19°30'59
morning max el	9317 Mar 29 00:42	20° ♌ 31'03	20°37'21	desc. node	9318 Mar 24 20:24	21° ♌ 07'15	-0.7m
	9317 Apr 05 22:32	0° ♍			9318 Mar 26 07:07	23° ♌ 16'05	
desc. node	9317 Apr 08 10:14	3° ♍ 24'21		morning set	9318 Mar 30 18:20	0° ♍	
	9317 Apr 26 08:09	0° ♎		max. Earth dist.	9318 Apr 06 05:49	9° ♍ 55'12	
morning set	9317 Apr 27 07:30	1° ♎ 30'31			9318 Apr 18 13:14	29° ♍ 06'22	1.44770 AU
max. Earth dist.	9317 May 06 00:19	15° ♎ 16'32	1.43367 AU		9318 Apr 19 02:47	0° ♎	
superior conj	9317 May 12 14:15	26° ♎ 05'03	-2°07'34	superior conj	9318 Apr 22 17:06	5° ♎ 43'32	-2°11'50
minimum elong	9317 May 12 18:25	26° ♎ 22'28	2°07'37	minimum elong	9318 Apr 22 15:09	5° ♎ 35'46	2°11'58
	9317 May 14 22:06	0° ♏		evening rise	9318 May 06 16:17	28° ♎ 38'27	
evening rise	9317 May 24 19:39	17° ♏ 09'22			9318 May 07 11:45	0° ♏	
asc. node	9317 Jun 01 02:09	29° ♏ 49'06		asc. node	9318 May 18 23:13	18° ♏ 44'03	
	9317 Jun 01 04:44	0° ♐		evening max el	9318 May 25 07:51	26° ♏ 54'50	18°15'09
evening max el	9317 Jun 10 18:23	13° ♐ 31'42	18°04'55		9318 May 29 20:43	0° ♐	
retrograde	9317 Jun 17 06:48	16° ♐ 53'28		retrograde	9318 May 31 16:59	0° ♐ 18'12	
evening set	9317 Jun 19 22:08	16° ♐ 19'54			9318 Jun 02 13:01	30° ♏	
inferior conj	9317 Jun 26 09:40	11° ♐ 15'49	2°22'58	evening set	9318 Jun 03 15:48	29° ♏ 31'29	
minimum elong	9317 Jun 26 12:33	11° ♐ 08'34	2°21'56	inferior conj	9318 Jun 09 15:07	24° ♏ 09'28	3°00'06
min. Earth dist.	9317 Jun 29 11:12	8° ♐ 12'29	0.61575 AU	minimum elong	9318 Jun 09 17:11	24° ♏ 03'38	2°59'27
morning rise	9317 Jul 03 00:42	5° ♐ 13'39		min. Earth dist.	9318 Jun 12 03:41	21° ♏ 19'28	0.63713 AU
desc. node	9317 Jul 05 09:51	3° ♐ 52'03		morning rise	9318 Jun 15 17:11	17° ♏ 55'20	
direct	9317 Jul 09 17:02	2° ♐ 54'50		direct	9318 Jun 22 10:28	15° ♏ 17'10	
morning max el	9317 Jul 23 22:19	10° ♐ 55'46	27°56'20	desc. node	9318 Jun 22 06:55	15° ♏ 17'14	
	9317 Aug 07 20:42	0° ♑		morning max el	9318 Jul 06 07:11	23° ♏ 19'47	27°41'21
	9317 Aug 24 21:05	0° ♒			9318 Jul 12 05:34	0° ♐	
morning set	9317 Aug 26 08:12	2° ♒ 58'27		morning set	9318 Aug 01 04:14	0° ♑	
asc. node	9317 Aug 28 01:45	6° ♒ 34'09		asc. node	9318 Aug 10 03:05	16° ♑ 46'07	
max. Earth dist.	9317 Sep 01 00:55	15° ♒ 03'54	1.31891 AU	max. Earth dist.	9318 Aug 14 22:41	26° ♑ 38'20	
					9318 Aug 15 02:21	26° ♑ 57'35	1.32697 AU
					9318 Aug 16 12:45	0° ♒	
superior conj	9317 Sep 02 18:06	18° ♒ 49'21	0°54'37	superior conj	9318 Aug 18 00:47	3° ♒ 13'11	0°30'38
minimum elong	9317 Sep 02 16:00	18° ♒ 37'50	0°54'09	minimum elong	9318 Aug 17 23:23	3° ♒ 05'35	0°30'12
	9317 Sep 07 20:03	0° ♓		evening rise	9318 Aug 25 00:14	18° ♒ 18'29	
evening rise	9317 Sep 09 12:42	3° ♓ 39'59			9318 Aug 30 17:06	0° ♓	
	9317 Sep 23 11:24	0° ♔		evening max el	9318 Sep 16 17:10	25° ♓ 13'52	23°05'08
desc. node	9317 Oct 01 08:21	10° ♔ 50'56		desc. node	9318 Sep 18 05:30	26° ♓ 37'34	
evening max el	9317 Oct 05 06:15	15° ♔ 01'33	24°44'04		9318 Sep 23 00:19	0° ♔	
retrograde	9317 Oct 19 01:38	21° ♔ 58'06		retrograde	9318 Sep 30 01:27	1° ♔ 53'33	
evening set	9317 Oct 24 11:39	20° ♔ 52'25		evening set	9318 Oct 04 00:02	1° ♔ 19'38	
min. Earth dist.	9317 Oct 29 17:26	18° ♔ 06'41	0.56726 AU		9318 Oct 07 11:30	30° ♒	
inferior conj	9317 Nov 01 09:26	16° ♔ 23'57	-5°31'47				

min. Earth dist.	9318 Oct 11 02:14	28°♄04'32	0.55298 AU		9319 Aug 24 15:11	0°♄	
inferior conj	9318 Oct 12 15:21	27°♄10'47	-5°35'22	evening max el	9319 Aug 29 09:21	5°♄31'58	21°28'54
minimum elong	9318 Oct 12 11:54	27°♄15'47	5°34'59	desc. node	9319 Sep 05 02:39	10°♄22'22	
morning rise	9318 Oct 21 01:43	23°♄20'43		retrograde	9319 Sep 10 14:51	11°♄35'58	
direct	9318 Oct 24 02:07	22°♄59'12		evening set	9319 Sep 13 05:06	11°♄20'36	
morning max el	9318 Nov 04 02:53	28°♄10'19	20°41'04	inferior conj	9319 Sep 22 08:55	7°♄23'35	-4°43'12
	9318 Nov 05 22:10	0°♄		minimum elong	9319 Sep 21 23:35	7°♄36'39	4°41'00
asc. node	9318 Nov 10 22:37	6°♄26'40		min. Earth dist.	9319 Sep 22 10:19	7°♄21'38	0.54661 AU
morning set	9318 Nov 23 04:43	28°♄50'57		morning rise	9319 Sep 30 18:56	3°♄33'13	
	9318 Nov 23 18:05	0°♄		direct	9319 Oct 04 11:22	3°♄03'46	
				morning max el	9319 Oct 16 23:34	9°♄00'14	22°17'01
superior conj	9318 Nov 30 15:37	14°♄17'16	1°32'58	asc. node	9319 Oct 28 19:35	24°♄41'16	
minimum elong	9318 Nov 30 17:31	14°♄27'01	1°33'08		9319 Oct 31 19:19	0°♄	
max. Earth dist.	9318 Dec 05 17:29	24°♄24'50	1.35998 AU	morning set	9319 Nov 07 15:10	13°♄38'42	
	9318 Dec 08 15:47	0°♄					
evening rise	9318 Dec 09 15:50	1°♄51'53		superior conj	9319 Nov 14 17:07	28°♄44'01	1°39'49
desc. node	9318 Dec 15 04:09	11°♄42'21		minimum elong	9319 Nov 14 17:45	28°♄47'24	1°40'03
	9318 Dec 26 14:33	0°♄			9319 Nov 15 07:30	0°♄	
evening max el	9319 Jan 14 04:19	23°♄23'29	26°10'47	max. Earth dist.	9319 Nov 18 08:15	6°♄18'32	1.34241 AU
	9319 Jan 23 13:51	0°♄		evening rise	9319 Nov 22 19:48	15°♄15'26	
retrograde	9319 Jan 26 21:52	0°♄37'06			9319 Nov 30 20:50	0°♄	
	9319 Jan 30 00:53	30°♄		desc. node	9319 Dec 02 01:10	2°♄01'17	
evening set	9319 Feb 02 02:48	28°♄06'02			9319 Dec 21 06:05	0°♄	
min. Earth dist.	9319 Feb 06 07:39	23°♄40'57	0.66832 AU	evening max el	9319 Dec 27 17:45	7°♄02'42	27°01'24
asc. node	9319 Feb 06 21:45	22°♄57'45		retrograde	9320 Jan 10 01:04	14°♄23'26	
inferior conj	9319 Feb 07 22:33	21°♄40'58	0°20'25	evening set	9320 Jan 16 16:43	11°♄48'32	
minimum elong	9319 Feb 07 22:01	21°♄42'37	0°20'24	min. Earth dist.	9320 Jan 20 15:58	7°♄57'25	0.65512 AU
morning rise	9319 Feb 13 17:58	15°♄54'11		inferior conj	9320 Jan 22 18:31	5°♄33'40	-0°40'22
direct	9319 Feb 16 21:08	14°♄58'30		minimum elong	9320 Jan 22 19:41	5°♄30'21	0°39'37
morning max el	9319 Feb 23 12:51	18°♄34'39	18°40'17	asc. node	9320 Jan 24 18:52	3°♄20'21	
	9319 Mar 04 09:36	0°♄		morning rise	9320 Jan 28 23:54	29°♄58'43	
desc. node	9319 Mar 13 04:00	13°♄28'14			9320 Jan 28 22:51	30°♄	
morning set	9319 Mar 16 19:43	19°♄12'19		direct	9320 Jan 31 17:41	29°♄18'03	
	9319 Mar 23 16:54	0°♄			9320 Feb 03 13:17	0°♄	
max. Earth dist.	9319 Apr 01 06:45	13°♄25'13	1.45501 AU	morning max el	9320 Feb 07 03:44	2°♄42'04	18°06'10
				morning set	9320 Feb 25 14:12	29°♄55'48	
superior conj	9319 Apr 02 02:00	14°♄40'33	-1°56'08		9320 Feb 25 15:14	0°♄	
minimum elong	9319 Apr 01 17:33	14°♄07'30	1°55'37	desc. node	9320 Feb 28 00:50	3°♄54'23	
	9319 Apr 11 19:32	0°♄					
evening rise	9319 Apr 17 13:18	9°♄08'42		superior conj	9320 Mar 11 09:02	23°♄39'22	-1°22'20
greatest brilliancy	9319 Apr 25 05:08	21°♄23'24	-0.9m	minimum elong	9320 Mar 11 00:07	23°♄04'13	1°21'15
	9319 Apr 30 18:22	0°♄		max. Earth dist.	9320 Mar 14 02:33	27°♄56'46	1.45490 AU
asc. node	9319 May 05 20:19	7°♄05'39			9320 Mar 15 10:01	0°♄	
evening max el	9319 May 08 19:30	10°♄28'47	18°43'22	evening rise	9320 Mar 27 12:37	18°♄49'31	
retrograde	9319 May 15 10:13	14°♄06'46			9320 Apr 03 18:19	0°♄	
evening set	9319 May 18 16:46	13°♄05'33		greatest brilliancy	9320 Apr 09 07:18	8°♄25'17	-0.7m
inferior conj	9319 May 24 07:40	7°♄27'08	3°17'47	evening max el	9320 Apr 21 03:06	24°♄07'49	19°28'33
minimum elong	9319 May 24 08:30	7°♄24'36	3°17'26	asc. node	9320 Apr 21 17:25	24°♄43'03	
min. Earth dist.	9319 May 26 05:11	5°♄07'07	0.65545 AU	retrograde	9320 Apr 28 07:25	28°♄12'18	
morning rise	9319 May 29 23:30	1°♄08'20		evening set	9320 May 01 22:15	26°♄55'53	
	9319 May 31 11:22	30°♄		inferior conj	9320 May 07 08:00	21°♄02'26	3°20'06
direct	9319 Jun 05 11:34	28°♄22'36		minimum elong	9320 May 07 07:36	21°♄03'43	3°19'51
desc. node	9319 Jun 09 03:56	29°♄07'45		min. Earth dist.	9320 May 08 14:23	19°♄22'31	0.66958 AU
	9319 Jun 11 00:06	0°♄		morning rise	9320 May 12 16:37	14°♄43'27	
morning max el	9319 Jun 18 17:37	6°♄13'28	26°53'51	direct	9320 May 18 18:57	12°♄01'41	
	9319 Jul 06 23:50	0°♄		desc. node	9320 May 26 00:55	14°♄55'27	
morning set	9319 Jul 24 11:39	0°♄01'38		morning max el	9320 May 31 03:41	19°♄25'42	25°42'27
	9319 Jul 24 11:18	0°♄			9320 Jun 09 03:24	0°♄	
max. Earth dist.	9319 Jul 28 18:09	8°♄24'31	1.34006 AU		9320 Jun 29 02:00	0°♄	
asc. node	9319 Aug 01 19:36	16°♄44'10		morning set	9320 Jul 06 06:03	12°♄35'11	
				max. Earth dist.	9320 Jul 09 23:29	19°♄32'04	1.35785 AU
superior conj	9319 Aug 02 01:50	17°♄16'41	0°02'36		9320 Jul 15 08:00	0°♄	
minimum elong	9319 Aug 02 01:42	17°♄15'59	0°02'22				
behind sun begin	9319 Aug 01 20:03	16°♄46'28		superior conj	9320 Jul 15 18:35	0°♄53'07	-0°28'32
behind sun end	9319 Aug 02 07:21	17°♄45'34		minimum elong	9320 Jul 15 20:19	1°♄01'46	0°28'28
	9319 Aug 08 02:13	0°♄		asc. node	9320 Jul 18 16:33	6°♄48'15	
evening rise	9319 Aug 09 10:28	2°♄49'56		evening rise	9320 Jul 23 17:20	17°♄08'54	

	9320 Jul 30 06:17	0°♎		evening max el	9321 Jul 24 07:11	28°♌04'24	19°06'53
evening max el	9320 Aug 10 13:40	16°♎25'38	20°07'44		9321 Jul 26 12:14	0°♎	
retrograde	9320 Aug 21 04:02	21°♎40'29		retrograde	9321 Aug 02 05:52	2°♎30'44	
desc. node	9320 Aug 21 23:48	21°♎38'41		evening set	9321 Aug 04 03:03	2°♎19'44	
evening set	9320 Aug 23 02:20	21°♎30'49		desc. node	9321 Aug 08 20:57	0°♎27'30	
inferior conj	9320 Sep 01 03:45	17°♎32'01	-3°03'44		9321 Aug 09 15:49	30°♎♌	
minimum elong	9320 Aug 31 19:35	17°♎44'10	3°00'59	inferior conj	9321 Aug 12 13:18	28°♌06'52	-1°08'08
min. Earth dist.	9320 Sep 02 20:02	16°♎32'08	0.54975 AU	minimum elong	9321 Aug 12 10:20	28°♌11'56	1°07'10
morning rise	9320 Sep 09 11:40	13°♎21'05		min. Earth dist.	9321 Aug 15 09:29	26°♌11'15	0.56187 AU
direct	9320 Sep 13 22:17	12°♎38'22		morning rise	9321 Aug 20 14:35	23°♌20'22	
morning max el	9320 Sep 27 12:26	19°♎17'21	24°03'23	direct	9321 Aug 25 20:41	22°♌16'10	
	9320 Oct 06 11:26	0°♏		morning max el	9321 Sep 09 01:07	29°♌30'32	25°44'27
asc. node	9320 Oct 14 16:31	13°♏33'11			9321 Sep 09 13:17	0°♎	
morning set	9320 Oct 22 02:55	28°♏27'53			9321 Sep 30 01:50	0°♏	
	9320 Oct 22 20:09	0°♎		asc. node	9321 Oct 01 13:25	2°♏52'21	
				morning set	9321 Oct 06 14:13	13°♏12'57	
superior conj	9320 Oct 29 00:15	13°♎25'13	1°40'01				
minimum elong	9320 Oct 28 23:42	13°♎22'13	1°40'11	superior conj	9321 Oct 13 10:41	28°♏13'15	1°34'12
max. Earth dist.	9320 Oct 31 07:22	18°♎22'50	1.32898 AU	minimum elong	9321 Oct 13 09:11	28°♏04'59	1°34'12
evening rise	9320 Nov 05 11:27	29°♎09'31			9321 Oct 14 06:01	0°♎	
	9320 Nov 05 21:29	0°♏		max. Earth dist.	9321 Oct 14 13:07	0°♎39'04	1.32009 AU
desc. node	9320 Nov 17 22:14	22°♏00'58		evening rise	9321 Oct 20 11:35	13°♎25'06	
	9320 Nov 22 23:30	0°♏			9321 Oct 28 23:48	0°♏	
evening max el	9320 Dec 09 06:04	20°♏21'57	27°27'40	desc. node	9321 Nov 04 19:21	11°♏32'46	
retrograde	9320 Dec 22 21:37	27°♏41'45			9321 Nov 18 13:10	0°♏	
evening set	9320 Dec 29 21:02	25°♏09'52		evening max el	9321 Nov 21 15:00	3°♏07'34	27°23'39
min. Earth dist.	9321 Jan 02 15:42	21°♏50'45	0.63857 AU	retrograde	9321 Dec 05 11:01	10°♏22'31	
inferior conj	9321 Jan 05 05:37	19°♏11'33	-1°48'06	evening set	9321 Dec 12 12:38	8°♏02'39	
minimum elong	9321 Jan 05 09:01	19°♏02'45	1°46'24	min. Earth dist.	9321 Dec 16 05:12	5°♏10'06	0.61921 AU
asc. node	9321 Jan 10 15:58	14°♏29'36		inferior conj	9321 Dec 19 04:47	2°♏26'36	-3°00'11
morning rise	9321 Jan 11 22:52	13°♏51'31		minimum elong	9321 Dec 19 10:39	2°♏13'11	2°57'44
direct	9321 Jan 14 09:17	13°♏22'08			9321 Dec 22 00:12	30°♎♏	
morning max el	9321 Jan 20 21:05	16°♏44'06	17°49'14	morning rise	9321 Dec 26 11:00	27°♏24'50	
	9321 Jan 30 09:58	0°♏		direct	9321 Dec 28 16:34	27°♏03'07	
morning set	9321 Feb 06 12:23	12°♏00'07		asc. node	9321 Dec 28 13:01	27°♏03'13	
desc. node	9321 Feb 13 21:42	24°♏30'21			9322 Jan 04 00:02	0°♏	
	9321 Feb 17 05:21	0°♏		morning max el	9322 Jan 04 13:47	0°♏32'32	17°50'15
				morning set	9322 Jan 20 08:05	25°♏05'41	
superior conj	9321 Feb 19 08:18	3°♏28'10	-0°39'20		9322 Jan 23 01:46	0°♏	
minimum elong	9321 Feb 19 03:59	3°♏10'37	0°38'32				
max. Earth dist.	9321 Feb 24 21:43	12°♏23'51	1.44745 AU	superior conj	9322 Jan 31 08:34	14°♏29'35	0°03'09
evening rise	9321 Mar 07 00:25	28°♏09'48		minimum elong	9322 Jan 31 08:53	14°♏30'56	0°03'20
	9321 Mar 08 05:11	0°♎		behind sun begin	9322 Jan 31 00:24	13°♏54'41	
	9321 Mar 28 16:49	0°♏		behind sun end	9322 Jan 31 17:23	15°♏07'05	
evening max el	9321 Apr 04 05:17	7°♏48'12	20°28'38	desc. node	9322 Jan 31 18:39	15°♏12'28	
asc. node	9321 Apr 08 14:33	11°♏22'43		max. Earth dist.	9322 Feb 07 13:27	26°♏29'05	1.43347 AU
retrograde	9321 Apr 12 06:02	12°♏28'55			9322 Feb 09 17:42	0°♏	
evening set	9321 Apr 16 06:00	10°♏57'01		evening rise	9322 Feb 14 15:56	7°♏47'29	
inferior conj	9321 Apr 21 13:21	4°♏50'19	3°09'56		9322 Mar 01 10:52	0°♎	
minimum elong	9321 Apr 21 11:59	4°♏54'59	3°09'37	evening max el	9322 Mar 18 01:58	21°♎29'52	21°40'23
min. Earth dist.	9321 Apr 22 05:35	3°♏54'40	0.67918 AU	asc. node	9322 Mar 26 11:41	26°♎49'59	
	9321 Apr 25 07:36	30°♎♎		retrograde	9322 Mar 27 04:09	26°♎52'20	
morning rise	9321 Apr 26 17:45	28°♎33'36		evening set	9322 Mar 31 14:17	25°♎05'13	
direct	9321 May 02 07:34	26°♎04'50		inferior conj	9322 Apr 05 21:29	18°♎47'37	2°49'10
	9321 May 10 12:55	0°♏		minimum elong	9322 Apr 05 19:30	18°♎54'34	2°48'41
desc. node	9321 May 12 21:51	2°♏10'07		min. Earth dist.	9322 Apr 06 00:43	18°♎36'22	0.68427 AU
morning max el	9321 May 13 13:01	2°♏47'53	24°16'50	morning rise	9322 Apr 11 00:32	12°♎34'47	
	9321 Jun 03 06:19	0°♏		direct	9322 Apr 16 00:42	10°♎24'47	
morning set	9321 Jun 18 05:22	24°♏13'13		morning max el	9322 Apr 25 23:24	16°♎17'47	22°46'59
	9321 Jun 21 12:03	0°♏		desc. node	9322 Apr 29 18:46	20°♎28'19	
max. Earth dist.	9321 Jun 21 21:32	0°♏42'28	1.37916 AU		9322 May 07 05:28	0°♏	
					9322 May 27 06:56	0°♏	
superior conj	9321 Jun 28 23:40	13°♏53'07	-1°01'03	morning set	9322 May 30 04:21	4°♏42'57	
minimum elong	9321 Jun 29 03:34	14°♏11'52	1°00'42	max. Earth dist.	9322 Jun 03 18:29	12°♏25'01	1.40182 AU
asc. node	9321 Jul 05 13:31	26°♏45'56					
	9321 Jul 07 04:38	0°♌		superior conj	9322 Jun 11 12:59	26°♏07'20	-1°32'14
evening rise	9321 Jul 07 18:16	1°♌07'28		minimum elong	9322 Jun 11 18:43	26°♏33'28	1°31'48

	9322 Jun 13 15:45	0°☿		evening rise	9323 Jun 04 12:49	27°☿28'34	
evening rise	9322 Jun 21 10:07	14°☿37'34			9323 Jun 05 22:14	0°☿	
asc. node	9322 Jun 22 10:31	16°☿33'21		asc. node	9323 Jun 09 07:33	6°☿05'12	
	9322 Jun 29 20:22	0°♌		evening max el	9323 Jun 20 21:47	23°☿17'43	18°07'30
evening max el	9322 Jul 07 11:13	10°♌25'03	18°27'06	retrograde	9323 Jun 27 16:39	26°☿44'41	
retrograde	9322 Jul 15 02:21	14°♌14'03		evening set	9323 Jun 30 03:36	26°☿17'55	
evening set	9322 Jul 17 05:31	13°♌57'01		inferior conj	9323 Jul 07 00:02	21°☿25'19	1°50'57
inferior conj	9322 Jul 24 20:11	9°♌24'43	0°34'18	minimum elong	9323 Jul 07 02:53	21°☿18'42	1°49'48
minimum elong	9322 Jul 24 21:24	9°♌22'18	0°33'37	min. Earth dist.	9323 Jul 10 06:54	18°☿23'45	0.60283 AU
desc. node	9322 Jul 26 18:05	7°♌52'41		morning rise	9323 Jul 13 23:20	15°☿34'32	
min. Earth dist.	9322 Jul 28 04:36	6°♌45'25	0.58066 AU	desc. node	9323 Jul 13 15:11	15°☿47'35	
morning rise	9322 Aug 01 09:45	4°♌01'38		direct	9323 Jul 20 12:07	13°☿30'34	
direct	9322 Aug 07 09:57	2°♌28'12		morning max el	9323 Aug 03 19:50	21°☿26'29	27°47'53
morning max el	9322 Aug 21 19:07	10°♌08'24	27°03'11		9323 Aug 11 06:48	0°♌	
	9322 Sep 06 01:30	0°♍			9323 Aug 30 01:45	0°♍	
asc. node	9322 Sep 18 10:21	22°♍31'34		morning set	9323 Sep 05 04:51	12°♍12'06	
morning set	9322 Sep 20 23:27	27°♍49'23		asc. node	9323 Sep 05 07:16	12°♍24'47	
	9322 Sep 21 23:58	0°♎		max. Earth dist.	9323 Sep 11 07:46	25°♍23'06	1.31641 AU
superior conj	9322 Sep 27 22:27	13°♎02'18	1°22'51	superior conj	9323 Sep 12 09:46	27°♍46'43	1°06'20
minimum elong	9322 Sep 27 20:22	12°♎50'43	1°22'38	minimum elong	9323 Sep 12 07:31	27°♍34'20	1°05'57
max. Earth dist.	9322 Sep 27 22:26	13°♎02'13	1.31589 AU		9323 Sep 13 09:49	0°♎	
evening rise	9322 Oct 04 17:38	27°♎55'27		evening rise	9323 Sep 19 03:23	12°♎34'20	
	9322 Oct 05 17:14	0°♏			9323 Sep 27 20:34	0°♏	
	9322 Oct 22 09:33	0°♐		desc. node	9323 Oct 09 13:37	18°♏24'18	
desc. node	9322 Oct 22 16:29	0°♐25'35		evening max el	9323 Oct 16 13:13	26°♏18'37	25°35'47
evening max el	9322 Nov 03 17:58	15°♐08'06	26°45'48		9323 Oct 21 01:18	0°♐	
retrograde	9322 Nov 17 16:08	22°♐16'43		retrograde	9323 Oct 30 11:04	3°♐19'55	
evening set	9322 Nov 24 11:27	20°♐19'28		evening set	9323 Nov 05 12:45	1°♐54'33	
min. Earth dist.	9322 Nov 28 08:06	17°♐42'35	0.59827 AU		9323 Nov 08 23:31	30°♑♌	
inferior conj	9322 Dec 01 12:35	15°♐09'40	-4°11'03	min. Earth dist.	9323 Nov 10 01:36	29°♑17'15	0.57777 AU
minimum elong	9322 Dec 01 20:07	14°♐54'34	4°08'36	inferior conj	9323 Nov 13 01:46	27°♑11'56	-5°09'54
morning rise	9322 Dec 09 07:20	10°♐28'57		minimum elong	9323 Nov 13 08:20	27°♑00'27	5°08'31
direct	9322 Dec 11 11:25	10°♐11'31		morning rise	9323 Nov 21 06:15	22°♑53'40	
asc. node	9322 Dec 15 10:05	11°♐12'14		direct	9323 Nov 23 13:51	22°♑37'06	
morning max el	9322 Dec 19 02:16	13°♐57'33	18°10'20	asc. node	9323 Dec 02 07:07	26°♑49'42	
	9322 Dec 29 23:57	0°♑		morning max el	9323 Dec 02 06:50	26°♑49'01	18°51'11
morning set	9323 Jan 03 19:05	8°♑53'26			9323 Dec 05 03:38	0°♑	
				morning set	9323 Dec 18 16:38	23°♑09'59	
superior conj	9323 Jan 13 08:58	26°♑39'05	0°39'12		9323 Dec 22 04:08	0°♑	
minimum elong	9323 Jan 13 11:44	26°♑51'31	0°39'03	superior conj	9323 Dec 27 04:56	9°♑43'52	1°06'45
	9323 Jan 15 05:57	0°♒		minimum elong	9323 Dec 27 08:11	9°♑59'16	1°06'38
desc. node	9323 Jan 18 15:34	5°♒56'24		max. Earth dist.	9324 Jan 03 06:49	22°♑43'51	1.39326 AU
max. Earth dist.	9323 Jan 21 00:05	9°♒57'08	1.41466 AU	desc. node	9324 Jan 05 12:32	26°♑39'04	
evening rise	9323 Jan 25 23:43	18°♒11'21		evening rise	9324 Jan 07 05:05	29°♑33'01	
	9323 Feb 02 11:53	0°♓			9324 Jan 07 11:26	0°♒	
	9323 Feb 24 00:58	0°♓			9324 Jan 26 21:44	0°♓	
evening max el	9323 Feb 28 18:18	5°♓13'37	22°59'16	evening max el	9324 Feb 11 08:19	19°♓01'04	24°19'14
retrograde	9323 Mar 11 00:03	11°♓17'24		retrograde	9324 Feb 22 16:24	25°♓39'35	
asc. node	9323 Mar 13 08:51	10°♓49'51		evening set	9324 Feb 28 02:01	23°♓24'25	
evening set	9323 Mar 15 21:28	9°♓15'39		asc. node	9324 Feb 28 05:59	23°♓15'51	
inferior conj	9323 Mar 21 06:25	2°♓50'25	2°18'54	min. Earth dist.	9324 Mar 03 17:39	18°♓04'45	0.68170 AU
minimum elong	9323 Mar 21 04:11	2°♓58'08	2°18'16	inferior conj	9324 Mar 04 14:14	16°♓55'33	1°39'41
min. Earth dist.	9323 Mar 20 21:31	3°♓21'14	0.68505 AU	minimum elong	9324 Mar 04 12:14	17°♓02'16	1°39'04
	9323 Mar 23 09:03	30°♔♐		morning rise	9324 Mar 09 22:32	10°♔54'38	
morning rise	9323 Mar 26 10:47	26°♔42'46		direct	9324 Mar 13 19:56	9°♔28'10	
direct	9323 Mar 30 21:14	24°♔54'24		morning max el	9324 Mar 21 11:43	13°♔46'55	20°07'15
morning max el	9323 Apr 08 14:00	29°♔56'27	21°21'39	desc. node	9324 Apr 02 12:35	29°♔09'04	
	9323 Apr 08 15:25	0°♕			9324 Apr 03 02:43	0°♕	
desc. node	9323 Apr 16 15:41	9°♕32'05		morning set	9324 Apr 18 00:28	22°♕23'41	
	9323 Apr 30 22:49	0°♖			9324 Apr 22 21:54	0°♖	
morning set	9323 May 10 00:12	13°♖58'08		max. Earth dist.	9324 Apr 28 05:27	8°♖24'24	1.44045 AU
max. Earth dist.	9323 May 16 20:09	24°♖57'58	1.42314 AU				
	9323 May 19 21:01	0°♗		superior conj	9324 May 03 22:41	17°♖39'19	-2°11'37
superior conj	9323 May 24 05:52	7°♗24'58	-1°57'44	minimum elong	9324 May 04 00:42	17°♖47'36	2°11'47
minimum elong	9323 May 24 11:38	7°♗49'49	1°57'34		9324 May 11 08:27	0°♗	

evening rise	9324 May 16 21:43	9° Π 30'15		minimum elong	9325 Apr 13 11:23	26° Υ 35'59	2°07'38
asc. node	9324 May 26 04:36	25° Π 15'47			9325 Apr 15 14:52	0° \mathcal{B}	
	9324 May 29 06:03	0° \mathcal{E}		evening rise	9325 Apr 28 08:30	20° \mathcal{B} 34'44	
evening max el	9324 Jun 03 11:11	6° \mathcal{E} 32'39	18°07'02		9325 May 04 02:16	0° Π	
retrograde	9324 Jun 09 20:50	9° \mathcal{E} 53'00		asc. node	9325 May 13 01:40	13° Π 58'03	
evening set	9324 Jun 12 15:29	9° \mathcal{E} 13'53		evening max el	9325 May 18 00:14	20° Π 01'44	18°24'59
inferior conj	9324 Jun 18 21:19	4° \mathcal{E} 02'01	2°41'22	retrograde	9325 May 24 10:34	23° Π 29'40	
minimum elong	9324 Jun 18 23:57	3° \mathcal{E} 55'03	2°40'29	evening set	9325 May 27 12:42	22° Π 36'44	
min. Earth dist.	9324 Jun 21 17:49	1° \mathcal{E} 02'03	0.62521 AU	inferior conj	9325 Jun 02 07:58	17° Π 07'19	3°09'41
	9324 Jun 22 19:07	30° \mathcal{R} Π		minimum elong	9325 Jun 02 09:32	17° Π 02'44	3°09'12
morning rise	9324 Jun 25 06:37	27° Π 54'01		min. Earth dist.	9325 Jun 04 14:06	14° Π 28'47	0.64537 AU
desc. node	9324 Jun 29 12:16	25° Π 45'38		morning rise	9325 Jun 08 05:21	10° Π 50'35	
direct	9324 Jul 02 00:22	25° Π 25'37		direct	9325 Jun 14 21:00	8° Π 08'07	
	9324 Jul 12 06:47	0° \mathcal{E}		desc. node	9325 Jun 16 09:18	8° Π 15'41	
morning max el	9324 Jul 16 02:17	3° \mathcal{E} 27'53	27°54'18	morning max el	9325 Jun 28 12:13	16° Π 06'45	27°24'46
	9324 Aug 04 19:54	0° \mathcal{Q}			9325 Jul 09 22:42	0° \mathcal{E}	
morning set	9324 Aug 19 04:15	26° \mathcal{Q} 14'29			9325 Jul 28 14:34	0° \mathcal{Q}	
	9324 Aug 21 00:11	0° \mathcal{M}		morning set	9325 Aug 02 19:09	9° \mathcal{Q} 49'57	
asc. node	9324 Aug 22 04:10	2° \mathcal{M} 26'13		max. Earth dist.	9325 Aug 07 11:15	19° \mathcal{Q} 14'46	1.33201 AU
max. Earth dist.	9324 Aug 24 13:18	7° \mathcal{M} 30'19	1.32175 AU	asc. node	9325 Aug 09 01:04	22° \mathcal{Q} 31'51	
superior conj	9324 Aug 26 18:41	12° \mathcal{M} 19'50	0°44'59	superior conj	9325 Aug 10 23:16	26° \mathcal{Q} 36'10	0°19'12
minimum elong	9324 Aug 26 16:48	12° \mathcal{M} 09'36	0°44'31	minimum elong	9325 Aug 10 22:19	26° \mathcal{Q} 31'09	0°18'50
evening rise	9324 Sep 02 14:48	27° \mathcal{M} 14'56			9325 Aug 12 13:23	0° \mathcal{M}	
	9324 Sep 03 21:50	0° \mathcal{A}		evening rise	9325 Aug 18 02:04	11° \mathcal{M} 51'48	
	9324 Sep 21 03:06	0° \mathcal{M}			9325 Aug 27 07:24	0° \mathcal{A}	
desc. node	9324 Sep 25 10:46	5° \mathcal{M} 07'00		evening max el	9325 Sep 08 13:29	16° \mathcal{A} 55'02	22°22'50
evening max el	9324 Sep 27 01:35	6° \mathcal{M} 45'10	24°02'45	desc. node	9325 Sep 12 07:55	20° \mathcal{A} 05'57	
retrograde	9324 Oct 10 17:32	13° \mathcal{M} 35'30		retrograde	9325 Sep 21 12:00	23° \mathcal{A} 21'58	
evening set	9324 Oct 15 13:17	12° \mathcal{M} 44'30		evening set	9325 Sep 24 19:46	22° \mathcal{A} 57'34	
min. Earth dist.	9324 Oct 21 12:11	9° \mathcal{M} 48'24	0.56042 AU	min. Earth dist.	9325 Oct 02 19:54	19° \mathcal{A} 25'41	0.54925 AU
inferior conj	9324 Oct 23 18:28	8° \mathcal{M} 25'36	-5°39'31	inferior conj	9325 Oct 03 17:44	18° \mathcal{A} 54'53	-5°20'11
minimum elong	9324 Oct 23 19:37	8° \mathcal{M} 23'50	5°39'19	minimum elong	9325 Oct 03 11:07	19° \mathcal{A} 04'14	5°19'09
morning rise	9324 Nov 01 03:59	4° \mathcal{M} 27'50		morning rise	9325 Oct 12 04:12	15° \mathcal{A} 07'29	
direct	9324 Nov 03 21:03	4° \mathcal{M} 08'53		direct	9325 Oct 15 11:12	14° \mathcal{A} 43'08	
morning max el	9324 Nov 13 23:48	8° \mathcal{M} 55'38	19°54'30	morning max el	9325 Oct 27 03:30	20° \mathcal{A} 12'32	21°19'52
asc. node	9324 Nov 18 04:07	13° \mathcal{M} 39'54			9325 Nov 04 02:25	0° \mathcal{M}	
	9324 Nov 27 23:49	0° \mathcal{X}		asc. node	9325 Nov 05 01:04	1° \mathcal{M} 27'33	
morning set	9324 Dec 01 21:10	7° \mathcal{X} 44'17		morning set	9325 Nov 16 06:05	22° \mathcal{M} 28'56	
					9325 Nov 19 19:58	0° \mathcal{X}	
superior conj	9324 Dec 09 15:30	23° \mathcal{X} 29'26	1°25'42	superior conj	9325 Nov 23 12:33	7° \mathcal{X} 44'09	1°36'44
minimum elong	9324 Dec 09 18:04	23° \mathcal{X} 42'11	1°25'46	minimum elong	9325 Nov 23 13:55	7° \mathcal{X} 51'17	1°36'56
	9324 Dec 12 23:06	0° \mathcal{Z}		max. Earth dist.	9325 Nov 27 23:45	16° \mathcal{X} 49'28	1.35207 AU
max. Earth dist.	9324 Dec 15 13:13	4° \mathcal{Z} 55'38	1.37164 AU	evening rise	9325 Dec 02 02:49	24° \mathcal{X} 49'47	
evening rise	9324 Dec 19 07:12	11° \mathcal{Z} 48'33			9325 Dec 04 21:44	0° \mathcal{Z}	
desc. node	9324 Dec 22 09:31	17° \mathcal{Z} 15'57		desc. node	9325 Dec 09 06:30	7° \mathcal{Z} 42'46	
	9324 Dec 30 02:27	0° \mathcal{A}			9325 Dec 23 15:26	0° \mathcal{A}	
	9325 Jan 21 03:56	0° \mathcal{X}		evening max el	9326 Jan 06 10:50	16° \mathcal{A} 34'11	26°34'47
evening max el	9325 Jan 23 21:36	2° \mathcal{X} 49'52	25°33'31	retrograde	9326 Jan 19 10:43	23° \mathcal{A} 51'57	
retrograde	9325 Feb 05 04:11	9° \mathcal{X} 53'20		evening set	9326 Jan 25 20:39	21° \mathcal{A} 18'14	
evening set	9325 Feb 11 02:21	7° \mathcal{X} 26'56		min. Earth dist.	9326 Jan 29 22:56	17° \mathcal{A} 08'03	0.66315 AU
asc. node	9325 Feb 14 03:08	4° \mathcal{X} 19'52		inferior conj	9326 Jan 31 18:53	14° \mathcal{A} 56'54	-0°04'28
min. Earth dist.	9325 Feb 15 10:52	2° \mathcal{X} 42'09	0.67433 AU	minimum elong	9326 Jan 31 19:00	14° \mathcal{A} 56'34	0°04'11
inferior conj	9325 Feb 16 19:04	0° \mathcal{X} 59'08	0°51'48	transit middle	9326 Jan 31 19:00	14° \mathcal{A} 56'34	0°04'11
minimum elong	9325 Feb 16 17:50	1° \mathcal{X} 03'07	0°51'28	transit begin	9326 Jan 31 16:11	15° \mathcal{A} 04'59	
	9325 Feb 17 13:40	30° \mathcal{R} \mathcal{A}		transit end	9326 Jan 31 21:49	14° \mathcal{A} 48'10	
morning rise	9325 Feb 22 09:45	25° \mathcal{A} 06'45		asc. node	9326 Feb 01 00:16	14° \mathcal{A} 40'51	
direct	9325 Feb 25 19:13	24° \mathcal{A} 00'37		morning rise	9326 Feb 06 18:19	9° \mathcal{A} 15'08	
morning max el	9325 Mar 04 17:22	27° \mathcal{A} 48'23	19°07'27	direct	9326 Feb 09 17:17	8° \mathcal{A} 26'19	
	9325 Mar 06 18:29	0° \mathcal{X}		morning max el	9326 Feb 16 05:38	11° \mathcal{A} 55'43	18°23'45
greatest brilliancy	9325 Mar 18 00:55	15° \mathcal{X} 35'46	-0.7m		9326 Mar 01 07:03	0° \mathcal{X}	
desc. node	9325 Mar 20 09:27	19° \mathcal{X} 10'14		desc. node	9326 Mar 07 06:19	9° \mathcal{X} 28'36	
	9325 Mar 27 10:21	0° \mathcal{Y}		morning set	9326 Mar 08 04:12	10° \mathcal{X} 55'49	
morning set	9325 Mar 28 02:50	1° \mathcal{Y} 03'49			9326 Mar 20 05:35	0° \mathcal{Y}	
max. Earth dist.	9325 Apr 10 21:15	22° \mathcal{Y} 31'05	1.45171 AU	superior conj	9326 Mar 23 22:04	5° \mathcal{Y} 46'38	-1°43'35

minimum elong	9326 Mar 23 12:32	5°♂09'19	1°42'44			9327 Feb 03 07:50	0°♂	
max. Earth dist.	9326 Mar 24 16:14	6°♂57'40	1.45581 AU	morning set		9327 Feb 17 11:07	22°♂15'49	
	9326 Apr 08 09:02	0°♂		desc. node		9327 Feb 22 03:10	29°♂59'32	
evening rise	9326 Apr 08 19:35	0°♂41'31				9327 Feb 22 03:17	0°♂	
greatest brilliancy	9326 Apr 18 20:29	16°♂26'00	-0.8m					
	9326 Apr 28 06:10	0°♂		superior conj		9327 Mar 03 10:21	15°♂02'52	-1°04'36
asc. node	9326 Apr 29 22:47	2°♂02'10		minimum elong		9327 Mar 03 03:05	14°♂33'56	1°03'33
evening max el	9326 May 01 10:16	3°♂37'43	19°00'36	max. Earth dist.		9327 Mar 07 11:40	21°♂27'58	1.45251 AU
retrograde	9326 May 08 05:58	7°♂26'03				9327 Mar 12 22:42	0°♂	
evening set	9326 May 11 15:54	6°♂18'26		evening rise		9327 Mar 19 12:19	10°♂09'00	
inferior conj	9326 May 17 04:13	0°♂33'12	3°20'26			9327 Apr 01 14:11	0°♂	
minimum elong	9326 May 17 04:30	0°♂32'17	3°20'10	greatest brilliancy		9327 Apr 02 22:53	2°♂00'31	-0.6m
	9326 May 17 14:37	30°♂8		evening max el		9327 Apr 14 15:38	17°♂17'21	19°52'28
min. Earth dist.	9326 May 18 19:09	28°♂29'28	0.66191 AU	asc. node		9327 Apr 16 19:54	19°♂16'48	
morning rise	9326 May 22 16:34	24°♂13'42		retrograde		9327 Apr 22 04:06	21°♂36'38	
direct	9326 May 29 00:46	21°♂28'33		evening set		9327 Apr 25 22:35	20°♂13'51	
desc. node	9326 Jun 03 06:18	22°♂59'33		inferior conj		9327 May 01 07:01	14°♂14'33	3°17'11
morning max el	9326 Jun 10 22:54	29°♂10'24	26°25'58	minimum elong		9327 May 01 06:10	14°♂17'23	3°16'55
	9326 Jun 11 18:09	0°♂		min. Earth dist.		9327 May 02 07:19	12°♂52'56	0.67416 AU
	9326 Jul 03 18:57	0°♂		morning rise		9327 May 06 13:27	7°♂56'01	
morning set	9326 Jul 16 22:15	22°♂49'12		direct		9327 May 12 10:40	5°♂18'39	
	9326 Jul 20 16:05	0°♂		desc. node		9327 May 21 03:18	9°♂27'19	
max. Earth dist.	9326 Jul 20 22:44	0°♂32'40	1.34711 AU	morning max el		9327 May 24 08:38	12°♂27'40	25°07'09
						9327 Jun 07 11:11	0°♂	
superior conj	9326 Jul 25 21:07	10°♂28'46	-0°10'18			9327 Jun 26 12:52	0°♂	
minimum elong	9326 Jul 25 21:43	10°♂31'50	0°10'26	morning set		9327 Jun 29 09:13	5°♂00'58	
behind sun begin	9326 Jul 25 17:11	10°♂08'34		max. Earth dist.		9327 Jul 02 23:57	11°♂35'58	1.36654 AU
behind sun end	9326 Jul 26 02:14	10°♂55'08						
asc. node	9326 Jul 26 21:59	12°♂37'14		superior conj		9327 Jul 09 09:22	23°♂50'40	-0°42'17
evening rise	9326 Aug 02 11:09	26°♂18'38		minimum elong		9327 Jul 09 12:00	24°♂03'39	0°42'05
	9326 Aug 04 06:05	0°♂				9327 Jul 12 11:28	0°♂	
evening max el	9326 Aug 21 10:09	27°♂25'05	20°51'59	asc. node		9327 Jul 13 18:57	2°♂38'52	
	9326 Aug 24 09:49	0°♂		evening rise		9327 Jul 17 15:50	10°♂29'28	
desc. node	9326 Aug 30 05:04	2°♂50'03				9327 Jul 28 04:16	0°♂	
retrograde	9326 Sep 02 00:14	3°♂09'45		evening max el		9327 Aug 03 20:21	8°♂38'12	19°39'18
evening set	9326 Sep 04 05:15	2°♂58'04		retrograde		9327 Aug 13 17:23	13°♂31'17	
	9326 Sep 11 16:36	30°♂8		evening set		9327 Aug 15 13:42	13°♂21'48	
inferior conj	9326 Sep 13 09:59	29°♂01'44	-4°05'14	desc. node		9327 Aug 17 02:14	13°♂00'31	
minimum elong	9326 Sep 13 00:18	29°♂15'32	4°02'27	inferior conj		9327 Aug 24 09:49	9°♂18'35	-2°14'41
min. Earth dist.	9326 Sep 14 04:32	28°♂35'19	0.54675 AU	minimum elong		9327 Aug 24 03:43	9°♂28'08	2°12'31
morning rise	9326 Sep 21 19:27	25°♂04'54		min. Earth dist.		9327 Aug 26 15:59	7°♂53'54	0.55389 AU
direct	9326 Sep 25 19:03	24°♂30'53		morning rise		9327 Sep 01 15:32	4°♂53'13	
	9326 Oct 07 23:46	0°♂		direct		9327 Sep 06 10:28	4°♂02'13	
morning max el	9326 Oct 08 20:12	0°♂46'22	23°01'51	morning max el		9327 Sep 20 08:08	10°♂58'11	24°48'00
asc. node	9326 Oct 22 22:00	19°♂59'11				9327 Oct 04 17:39	0°♂	
	9326 Oct 28 04:40	0°♂		asc. node		9327 Oct 09 18:55	9°♂03'36	
morning set	9326 Oct 31 17:19	7°♂18'05		morning set		9327 Oct 16 05:04	22°♂06'00	
						9327 Oct 19 20:29	0°♂	
superior conj	9326 Nov 07 16:48	22°♂18'28	1°40'40					
minimum elong	9326 Nov 07 16:55	22°♂19'04	1°40'54	superior conj		9327 Oct 23 01:37	7°♂03'36	1°38'15
max. Earth dist.	9326 Nov 10 17:52	28°♂45'44	1.33611 AU	minimum elong		9327 Oct 23 00:37	6°♂58'10	1°38'22
	9326 Nov 11 08:07	0°♂		max. Earth dist.		9327 Oct 24 19:57	10°♂54'40	1.32461 AU
evening rise	9326 Nov 15 12:11	8°♂27'35		evening rise		9327 Oct 30 07:49	22°♂32'06	
desc. node	9326 Nov 26 03:32	27°♂54'25				9327 Nov 03 01:44	0°♂	
	9326 Nov 27 09:42	0°♂		desc. node		9327 Nov 13 00:37	17°♂43'22	
	9326 Dec 19 21:18	0°♂				9327 Nov 21 04:53	0°♂	
evening max el	9326 Dec 19 23:50	0°♂06'03	27°15'54	evening max el		9327 Dec 02 11:04	13°♂12'58	27°30'01
retrograde	9327 Jan 02 11:26	7°♂28'03		retrograde		9327 Dec 16 05:18	20°♂31'29	
evening set	9327 Jan 09 06:52	4°♂53'11		evening set		9327 Dec 23 06:14	18°♂03'41	
min. Earth dist.	9327 Jan 13 03:51	1°♂16'14	0.64841 AU	min. Earth dist.		9327 Dec 26 23:37	14°♂56'31	0.63057 AU
	9327 Jan 14 07:57	30°♂8		inferior conj		9327 Dec 29 17:54	12°♂13'54	-2°18'24
inferior conj	9327 Jan 15 11:26	28°♂44'23	-1°08'23	minimum elong		9327 Dec 29 22:22	12°♂02'55	2°16'20
minimum elong	9327 Jan 15 13:30	28°♂38'44	1°07'14	morning rise		9328 Jan 05 16:36	7°♂01'04	
asc. node	9327 Jan 18 21:23	25°♂17'19		asc. node		9328 Jan 05 18:29	6°♂59'24	
morning rise	9327 Jan 21 21:42	23°♂15'38		direct		9328 Jan 08 00:30	6°♂35'29	
direct	9327 Jan 24 11:59	22°♂40'23		morning max el		9328 Jan 14 15:31	9°♂59'54	17°47'22
morning max el	9327 Jan 30 22:02	26°♂02'33	17°56'52			9328 Jan 28 01:01	0°♂	

morning set	9328 Jan 30 19:19	4° \approx 48'43		morning set	9329 Jan 02 08:23	0° \approx	
desc. node	9328 Feb 09 00:03	20° \approx 38'14		morning set	9329 Jan 12 22:13	18° \approx 14'22	
					9329 Jan 19 09:27	0° \approx	
superior conj	9328 Feb 11 19:51	25° \approx 21'26	-0°20'49	superior conj	9329 Jan 23 06:47	6° \approx 52'37	0°19'24
minimum elong	9328 Feb 11 17:42	25° \approx 12'32	0°20'18	minimum elong	9329 Jan 23 08:25	6° \approx 59'45	0°19'24
	9328 Feb 14 15:37	0° \approx		desc. node	9329 Jan 25 20:59	11° \approx 21'15	
max. Earth dist.	9328 Feb 18 05:17	5° \approx 46'09	1.44223 AU	max. Earth dist.	9329 Jan 30 19:17	19° \approx 38'04	1.42606 AU
evening rise	9328 Feb 26 23:48	19° \approx 31'56		evening rise	9329 Feb 05 21:10	29° \approx 26'54	
	9328 Mar 04 21:01	0° \approx			9329 Feb 06 05:33	0° \approx	
	9328 Mar 26 17:12	0° \approx			9329 Feb 26 11:52	0° \approx	
evening max el	9328 Mar 27 15:30	0° \approx 58'15	20°58'03	evening max el	9329 Mar 10 10:14	14° \approx 40'41	22°13'25
asc. node	9328 Apr 02 17:04	5° \approx 27'21		retrograde	9329 Mar 19 23:50	20° \approx 20'26	
retrograde	9328 Apr 05 02:38	5° \approx 56'09		asc. node	9329 Mar 20 14:14	20° \approx 18'38	
evening set	9328 Apr 09 06:46	4° \approx 17'54		evening set	9329 Mar 24 14:45	18° \approx 26'54	
	9328 Apr 13 04:34	30° \approx 8'17		inferior conj	9329 Mar 29 22:30	12° \approx 05'51	2°37'26
inferior conj	9328 Apr 14 13:49	28° \approx 06'30	3°02'21	minimum elong	9329 Mar 29 20:21	12° \approx 13'19	2°36'52
minimum elong	9328 Apr 14 12:09	28° \approx 12'18	3°01'57	min. Earth dist.	9329 Mar 29 20:29	12° \approx 12'52	0.68519 AU
min. Earth dist.	9328 Apr 15 00:29	27° \approx 29'35	0.68191 AU	morning rise	9329 Apr 04 01:49	5° \approx 55'15	
morning rise	9328 Apr 19 17:18	21° \approx 51'15		direct	9329 Apr 08 20:11	3° \approx 54'14	
direct	9328 Apr 25 01:30	19° \approx 29'37		morning max el	9329 Apr 18 05:31	9° \approx 24'22	22°09'40
morning max el	9328 May 05 17:52	25° \approx 51'57	23°38'31	desc. node	9329 Apr 23 21:09	15° \approx 49'50	
desc. node	9328 May 07 00:14	27° \approx 11'01			9329 May 04 07:49	0° \approx	
	9328 May 09 12:30	0° \approx		morning set	9329 May 21 10:04	26° \approx 07'39	
	9328 May 30 24:00	0° \approx			9329 May 23 19:07	0° \approx	
morning set	9328 Jun 09 22:47	16° \approx 11'08		max. Earth dist.	9329 May 26 19:10	4° \approx 59'00	1.41123 AU
max. Earth dist.	9328 Jun 13 20:17	22° \approx 54'49	1.38875 AU				
	9328 Jun 17 19:21	0° \approx		superior conj	9329 Jun 03 13:30	18° \approx 23'38	-1°44'04
superior conj	9328 Jun 21 08:19	6° \approx 32'42	-1°14'40	minimum elong	9329 Jun 03 19:36	18° \approx 50'44	1°43'42
minimum elong	9328 Jun 21 13:07	6° \approx 55'11	1°14'14		9329 Jun 09 22:59	0° \approx	
asc. node	9328 Jun 29 15:57	22° \approx 32'45		evening rise	9329 Jun 14 00:05	7° \approx 31'11	
evening rise	9328 Jun 30 13:19	24° \approx 16'51		asc. node	9329 Jun 16 12:58	12° \approx 13'53	
	9328 Jul 03 12:24	0° \approx			9329 Jun 27 07:22	0° \approx	
evening max el	9328 Jul 16 18:56	20° \approx 36'29	18°47'32	evening max el	9329 Jun 30 02:11	3° \approx 11'17	18°16'22
retrograde	9328 Jul 25 02:38	24° \approx 44'45		retrograde	9329 Jul 07 07:12	6° \approx 49'06	
evening set	9328 Jul 27 02:07	24° \approx 31'35		evening set	9329 Jul 09 13:42	6° \approx 28'14	
desc. node	9328 Aug 02 23:24	21° \approx 02'29		inferior conj	9329 Jul 16 20:12	1° \approx 46'52	1°10'12
inferior conj	9328 Aug 04 04:08	20° \approx 10'53	-0°22'00	minimum elong	9329 Jul 16 22:24	1° \approx 42'10	1°09'09
minimum elong	9328 Aug 04 03:14	20° \approx 12'32	0°21'52		9329 Jul 18 22:05	30° \approx 8'25	
min. Earth dist.	9328 Aug 07 07:32	17° \approx 54'41	0.56923 AU	min. Earth dist.	9329 Jul 20 05:12	28° \approx 55'30	0.58983 AU
morning rise	9328 Aug 12 01:00	15° \approx 08'37		desc. node	9329 Jul 20 20:32	28° \approx 25'04	
direct	9328 Aug 17 15:32	13° \approx 52'28		morning rise	9329 Jul 24 03:51	26° \approx 10'51	
morning max el	9328 Aug 31 22:25	21° \approx 18'29	26°21'28	direct	9329 Jul 30 10:10	24° \approx 24'31	
	9328 Sep 08 12:26	0° \approx			9329 Aug 11 10:01	0° \approx	
asc. node	9328 Sep 25 15:49	28° \approx 32'18		morning max el	9329 Aug 13 19:15	2° \approx 11'45	27°26'56
	9328 Sep 26 09:14	0° \approx			9329 Sep 02 22:02	0° \approx	
morning set	9328 Sep 29 15:43	6° \approx 48'15		asc. node	9329 Sep 12 12:44	18° \approx 17'50	
				morning set	9329 Sep 13 23:33	21° \approx 19'14	
superior conj	9328 Oct 06 12:53	21° \approx 53'07	1°30'03		9329 Sep 18 00:15	0° \approx	
minimum elong	9328 Oct 06 11:05	21° \approx 43'10	1°29'58	max. Earth dist.	9329 Sep 20 13:47	5° \approx 40'04	1.31558 AU
max. Earth dist.	9328 Oct 07 03:47	23° \approx 15'46	1.31779 AU				
	9328 Oct 10 05:16	0° \approx		superior conj	9329 Sep 21 00:39	6° \approx 40'22	1°16'28
evening rise	9328 Oct 13 10:49	6° \approx 55'28		minimum elong	9329 Sep 20 22:26	6° \approx 28'06	1°16'10
	9328 Oct 25 13:45	0° \approx		evening rise	9329 Sep 27 18:41	21° \approx 29'54	
desc. node	9328 Oct 29 21:45	7° \approx 00'20			9329 Oct 01 21:04	0° \approx	
evening max el	9328 Nov 13 18:05	25° \approx 41'48	27°11'46	desc. node	9329 Oct 16 18:54	25° \approx 13'20	
	9328 Nov 19 03:17	0° \approx			9329 Oct 20 03:02	0° \approx	
retrograde	9328 Nov 27 15:09	2° \approx 53'14		evening max el	9329 Oct 26 17:55	7° \approx 20'50	26°19'31
evening set	9328 Dec 04 15:15	0° \approx 42'05		retrograde	9329 Nov 09 15:50	14° \approx 25'50	
	9328 Dec 05 17:03	30° \approx 8'27		evening set	9329 Nov 16 05:28	12° \approx 41'05	
min. Earth dist.	9328 Dec 08 08:44	27° \approx 57'36	0.61047 AU	min. Earth dist.	9329 Nov 20 07:05	10° \approx 06'30	0.58945 AU
inferior conj	9328 Dec 11 11:02	25° \approx 16'56	-3°30'50	inferior conj	9329 Nov 23 11:14	7° \approx 43'20	-4°38'17
minimum elong	9328 Dec 11 17:46	25° \approx 02'18	3°28'16	minimum elong	9329 Nov 23 18:49	7° \approx 29'01	4°36'10
morning rise	9328 Dec 18 22:42	20° \approx 23'25		morning rise	9329 Dec 01 10:37	3° \approx 12'11	
direct	9328 Dec 21 03:13	20° \approx 03'50		direct	9329 Dec 03 15:42	2° \approx 55'23	
asc. node	9328 Dec 22 15:32	20° \approx 13'32		asc. node	9329 Dec 09 12:33	5° \approx 01'20	
morning max el	9328 Dec 28 06:48	23° \approx 39'13	17°56'15	morning max el	9329 Dec 11 16:20	6° \approx 50'49	18°25'03

	9329 Dec 26 09:47	0°♂		morning set	9330 Dec 11 15:02	16°♂40'24	
morning set	9329 Dec 27 14:12	2°♂15'46			9330 Dec 18 07:47	0°♂	
superior conj	9330 Jan 05 16:09	19°♂27'32	0°51'57	superior conj	9330 Dec 19 18:53	2°♂51'11	1°15'48
minimum elong	9330 Jan 05 19:19	19°♂42'04	0°51'47	minimum elong	9330 Dec 19 21:56	3°♂05'58	1°15'45
	9330 Jan 11 13:08	0°♂		max. Earth dist.	9330 Dec 26 10:09	15°♂19'05	1.38389 AU
desc. node	9330 Jan 12 17:55	2°♂04'58		evening rise	9330 Dec 30 04:19	21°♂59'37	
max. Earth dist.	9330 Jan 13 04:28	2°♂50'25	1.40578 AU	desc. node	9330 Dec 30 14:51	22°♂45'21	
evening rise	9330 Jan 17 13:54	10°♂14'44			9331 Jan 03 21:36	0°♂	
	9330 Jan 30 04:40	0°♂			9331 Jan 24 03:02	0°♂	
evening max el	9330 Feb 21 01:16	28°♂25'47	23°33'27	evening max el	9331 Feb 03 14:34	12°♂13'17	24°51'54
	9330 Feb 22 16:43	0°♂		retrograde	9331 Feb 15 09:02	19°♂04'35	
retrograde	9330 Mar 03 18:21	4°♂45'18		evening set	9331 Feb 20 23:58	16°♂44'07	
asc. node	9330 Mar 07 11:22	3°♂38'54		asc. node	9331 Feb 22 08:31	15°♂27'03	
evening set	9330 Mar 08 21:00	2°♂37'20		min. Earth dist.	9331 Feb 25 12:21	11°♂39'16	0.67900 AU
	9330 Mar 11 09:26	30°♂		inferior conj	9331 Feb 26 13:56	10°♂14'47	1°20'24
min. Earth dist.	9330 Mar 13 17:10	26°♂57'56	0.68415 AU	minimum elong	9331 Feb 26 12:11	10°♂20'33	1°19'53
inferior conj	9330 Mar 14 07:10	26°♂09'59	2°03'20	morning rise	9331 Mar 04 00:39	4°♂17'17	
minimum elong	9330 Mar 14 04:58	26°♂17'30	2°02'41	direct	9331 Mar 07 16:43	2°♂59'58	
morning rise	9330 Mar 19 12:55	20°♂05'16		morning max el	9331 Mar 15 00:15	7°♂04'21	19°39'53
direct	9330 Mar 23 17:41	18°♂26'29		greatest brilliancy	9331 Mar 27 17:27	23°♂37'54	-0.6m
morning max el	9330 Mar 31 23:04	23°♂08'39	20°48'27	desc. node	9331 Mar 28 14:54	24°♂56'55	
	9330 Apr 06 21:18	0°♂			9331 Apr 01 00:09	0°♂	
desc. node	9330 Apr 10 18:03	5°♂08'59		morning set	9331 Apr 09 17:51	13°♂19'07	
	9330 Apr 27 15:12	0°♂			9331 Apr 20 10:48	0°♂	
morning set	9330 Apr 30 19:52	4°♂56'39		max. Earth dist.	9331 Apr 21 12:15	1°♂40'40	1.44605 AU
max. Earth dist.	9330 May 09 00:27	17°♂57'17	1.43112 AU				
superior conj	9330 May 15 20:25	29°♂14'21	-2°05'26	superior conj	9331 Apr 26 02:46	9°♂01'46	-2°12'25
minimum elong	9330 May 16 01:09	29°♂34'17	2°05'26	minimum elong	9331 Apr 26 01:57	8°♂58'27	2°12'35
	9330 May 16 07:15	0°♂			9331 May 08 19:58	0°♂	
evening rise	9330 May 27 19:51	20°♂02'43		evening rise	9331 May 09 19:46	1°♂40'20	
	9330 Jun 02 11:22	0°♂		asc. node	9331 May 21 07:04	20°♂36'48	
asc. node	9330 Jun 03 10:01	1°♂37'27		evening max el	9331 May 28 03:50	29°♂34'58	18°12'26
evening max el	9330 Jun 13 14:17	16°♂13'43	18°04'56		9331 May 28 14:12	0°♂	
retrograde	9330 Jun 20 04:07	19°♂36'27		retrograde	9331 Jun 03 12:48	2°♂57'04	
evening set	9330 Jun 22 18:15	19°♂04'47		evening set	9331 Jun 06 10:31	2°♂12'23	
inferior conj	9330 Jun 29 07:58	14°♂03'38	2°15'20		9331 Jun 09 11:18	30°♂	
minimum elong	9330 Jun 29 10:53	13°♂56'26	2°14'15	inferior conj	9331 Jun 12 11:25	26°♂53'04	2°55'45
min. Earth dist.	9330 Jul 02 11:06	10°♂59'56	0.61243 AU	minimum elong	9331 Jun 12 13:39	26°♂46'52	2°55'04
morning rise	9330 Jul 06 01:06	8°♂03'57		min. Earth dist.	9331 Jun 15 02:12	23°♂59'46	0.63416 AU
desc. node	9330 Jul 07 17:38	7°♂03'54		morning rise	9331 Jun 18 15:17	20°♂40'15	
direct	9330 Jul 12 16:42	5°♂48'41		desc. node	9331 Jun 24 14:41	18°♂06'00	
morning max el	9330 Jul 26 22:53	13°♂48'56	27°55'24	direct	9331 Jun 25 08:57	18°♂04'07	
	9330 Aug 08 22:34	0°♂		morning max el	9331 Jul 09 07:10	26°♂07'11	27°45'45
	9330 Aug 26 08:40	0°♂			9331 Jul 12 21:22	0°♂	
morning set	9330 Aug 29 02:39	5°♂33'39			9331 Aug 02 12:30	0°♂	
asc. node	9330 Aug 30 09:38	8°♂14'41		morning set	9331 Aug 12 22:48	19°♂25'17	
max. Earth dist.	9330 Sep 03 21:58	17°♂55'55	1.31806 AU	asc. node	9331 Aug 17 06:33	28°♂18'14	
				max. Earth dist.	9331 Aug 18 00:29	29°♂52'52	1.32541 AU
					9331 Aug 18 01:49	0°♂	
superior conj	9330 Sep 05 11:07	21°♂19'53	0°57'51				
minimum elong	9330 Sep 05 08:58	21°♂08'03	0°57'25	superior conj	9331 Aug 20 18:28	5°♂46'21	0°34'33
	9330 Sep 09 09:25	0°♂		minimum elong	9331 Aug 20 16:55	5°♂37'57	0°34'06
evening rise	9330 Sep 12 05:20	6°♂09'20		evening rise	9331 Aug 27 16:53	20°♂48'28	
	9330 Sep 24 14:42	0°♂			9331 Sep 01 03:11	0°♂	
desc. node	9330 Oct 03 16:03	13°♂01'11		evening max el	9331 Sep 19 20:36	28°♂24'21	23°20'12
evening max el	9330 Oct 08 09:29	18°♂09'06	24°58'06	desc. node	9331 Sep 20 13:12	29°♂03'39	
retrograde	9330 Oct 22 05:51	25°♂07'25			9331 Sep 21 14:31	0°♂	
evening set	9330 Oct 27 20:19	23°♂56'34		retrograde	9331 Oct 03 07:27	5°♂07'20	
min. Earth dist.	9330 Nov 01 21:01	21°♂13'37	0.56981 AU	evening set	9331 Oct 07 11:31	4°♂29'27	
inferior conj	9330 Nov 04 15:38	19°♂24'29	-5°27'18	min. Earth dist.	9331 Oct 14 06:16	1°♂19'46	0.55463 AU
minimum elong	9330 Nov 04 20:29	19°♂16'30	5°26'31	inferior conj	9331 Oct 16 00:14	0°♂18'17	-5°38'18
morning rise	9330 Nov 12 22:58	15°♂15'57		minimum elong	9331 Oct 15 22:00	0°♂21'33	5°38'04
direct	9330 Nov 15 09:46	14°♂58'53			9331 Oct 16 12:42	30°♂	
morning max el	9330 Nov 24 16:24	19°♂24'15	19°15'23	morning rise	9331 Oct 24 10:27	26°♂26'33	
asc. node	9330 Nov 26 09:33	21°♂11'18		direct	9331 Oct 27 08:48	26°♂05'48	
	9330 Dec 02 16:28	0°♂			9331 Nov 05 19:58	0°♂	

morning max el	9331 Nov 07 03:54	1° \mathbb{M} 10'38	20°28'17	morning rise	9332 Oct 03 04:59	6° \mathbb{A} 45'12	
asc. node	9331 Nov 13 06:32	8° \mathbb{M} 27'57		direct	9332 Oct 06 19:01	6° \mathbb{A} 17'08	
	9331 Nov 25 06:06	0° \mathbb{A}		morning max el	9332 Oct 19 02:11	12° \mathbb{A} 06'31	22°01'47
morning set	9331 Nov 25 21:45	1° \mathbb{A} 20'08		asc. node	9332 Oct 30 03:28	26° \mathbb{A} 35'27	
					9332 Nov 01 02:58	0° \mathbb{M}	
superior conj	9331 Dec 03 10:24	16° \mathbb{A} 50'53	1°31'18	morning set	9332 Nov 09 07:53	16° \mathbb{M} 07'04	
minimum elong	9331 Dec 03 12:29	17° \mathbb{A} 01'29	1°31'25		9332 Nov 15 20:45	0° \mathbb{A}	
max. Earth dist.	9331 Dec 08 17:28	27° \mathbb{A} 19'44	1.36293 AU				
	9331 Dec 10 03:04	0° \mathbb{B}		superior conj	9332 Nov 16 10:51	1° \mathbb{A} 14'27	1°39'13
evening rise	9331 Dec 12 14:25	4° \mathbb{B} 36'32		minimum elong	9332 Nov 16 11:41	1° \mathbb{A} 18'51	1°39'27
desc. node	9331 Dec 17 11:50	13° \mathbb{B} 18'52		max. Earth dist.	9332 Nov 20 07:10	9° \mathbb{A} 13'03	1.34480 AU
	9331 Dec 27 19:36	0° \mathbb{A}		evening rise	9332 Nov 24 16:22	17° \mathbb{A} 54'25	
evening max el	9332 Jan 17 03:53	26° \mathbb{A} 01'32	26°01'35		9332 Dec 01 06:00	0° \mathbb{B}	
	9332 Jan 21 19:09	0° \mathbb{H}		desc. node	9332 Dec 03 08:52	3° \mathbb{B} 39'55	
retrograde	9332 Jan 29 18:49	3° \mathbb{H} 12'44			9332 Dec 21 01:55	0° \mathbb{A}	
evening set	9332 Feb 04 21:58	0° \mathbb{H} 42'51		evening max el	9332 Dec 29 17:23	9° \mathbb{A} 42'31	26°55'12
	9332 Feb 05 17:26	30° \mathbb{R}		retrograde	9333 Jan 11 22:50	17° \mathbb{A} 02'26	
min. Earth dist.	9332 Feb 09 03:48	26° \mathbb{A} 12'33	0.67004 AU	evening set	9333 Jan 18 13:07	14° \mathbb{A} 27'43	
asc. node	9332 Feb 09 05:38	26° \mathbb{A} 06'53		min. Earth dist.	9333 Jan 22 13:10	10° \mathbb{A} 31'42	0.65734 AU
inferior conj	9332 Feb 10 16:56	24° \mathbb{A} 16'51	0°28'57	inferior conj	9333 Jan 24 13:59	8° \mathbb{A} 11'03	-0°30'39
minimum elong	9332 Feb 10 16:11	24° \mathbb{A} 19'10	0°28'51	minimum elong	9333 Jan 24 14:51	8° \mathbb{A} 08'32	0°30'02
morning rise	9332 Feb 16 11:02	18° \mathbb{A} 28'25		asc. node	9333 Jan 26 02:45	6° \mathbb{A} 27'10	
direct	9332 Feb 19 15:47	17° \mathbb{A} 30'04		morning rise	9333 Jan 30 17:46	2° \mathbb{A} 34'12	
morning max el	9332 Feb 26 08:54	21° \mathbb{A} 08'52	18°46'43	direct	9333 Feb 02 12:52	1° \mathbb{A} 51'29	
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desc. node	9332 Mar 14 11:45	15° \mathbb{H} 06'00			9333 Feb 25 23:02	0° \mathbb{H}	
morning set	9332 Mar 19 04:07	22° \mathbb{H} 24'28		morning set	9333 Feb 27 18:14	2° \mathbb{H} 54'58	
	9332 Mar 24 00:41	0° \mathbb{Y}		desc. node	9333 Mar 01 08:37	5° \mathbb{H} 30'16	
max. Earth dist.	9332 Apr 03 05:20	15° \mathbb{Y} 56'18	1.45442 AU				
				superior conj	9333 Mar 14 19:31	26° \mathbb{H} 57'08	-1°28'17
superior conj	9332 Apr 04 13:26	18° \mathbb{Y} 02'06	-1°59'49	minimum elong	9333 Mar 14 10:14	26° \mathbb{H} 20'37	1°27'15
minimum elong	9332 Apr 04 05:41	17° \mathbb{Y} 31'43	1°59'24		9333 Mar 16 18:07	0° \mathbb{Y}	
	9332 Apr 12 03:29	0° \mathbb{B}		max. Earth dist.	9333 Mar 17 01:14	0° \mathbb{Y} 27'53	1.45540 AU
evening rise	9332 Apr 19 20:15	12° \mathbb{B} 18'40		evening rise	9333 Mar 30 22:25	22° \mathbb{Y} 05'41	
greatest brilliancy	9332 Apr 26 09:30	22° \mathbb{B} 51'33	-0.9m		9333 Apr 05 00:39	0° \mathbb{B}	
	9332 Apr 30 21:55	0° \mathbb{H}		greatest brilliancy	9333 Apr 12 00:53	10° \mathbb{B} 45'09	-0.7m
asc. node	9332 May 07 04:10	9° \mathbb{H} 04'01		evening max el	9333 Apr 24 00:15	26° \mathbb{B} 46'16	19°20'49
evening max el	9332 May 10 15:56	13° \mathbb{H} 07'48	18°38'06	asc. node	9333 Apr 24 01:17	26° \mathbb{B} 48'52	
retrograde	9332 May 17 05:12	16° \mathbb{H} 42'38			9333 Apr 28 03:39	0° \mathbb{H}	
evening set	9332 May 20 10:37	15° \mathbb{H} 43'33		retrograde	9333 May 01 02:03	0° \mathbb{H} 46'09	
inferior conj	9332 May 26 02:33	10° \mathbb{H} 07'28	3°16'06		9333 May 03 21:33	30° \mathbb{R}	
minimum elong	9332 May 26 03:34	10° \mathbb{H} 04'21	3°15'45	evening set	9333 May 04 15:37	29° \mathbb{B} 31'57	
min. Earth dist.	9332 May 28 02:18	7° \mathbb{H} 42'20	0.65298 AU	inferior conj	9333 May 10 01:56	23° \mathbb{B} 40'32	3°20'35
morning rise	9332 May 31 19:44	3° \mathbb{H} 49'08		minimum elong	9333 May 10 01:43	23° \mathbb{B} 41'14	3°20'20
direct	9332 Jun 07 08:56	1° \mathbb{H} 03'52		min. Earth dist.	9333 May 11 10:28	21° \mathbb{B} 54'23	0.66773 AU
desc. node	9332 Jun 10 11:42	1° \mathbb{H} 36'09		morning rise	9333 May 15 11:26	17° \mathbb{B} 21'22	
morning max el	9332 Jun 20 17:27	8° \mathbb{H} 57'00	27°02'40	direct	9333 May 21 15:21	14° \mathbb{B} 38'32	
	9332 Jul 07 03:55	0° \mathbb{B}		desc. node	9333 May 28 08:42	17° \mathbb{B} 08'14	
	9332 Jul 24 22:17	0° \mathbb{Q}		morning max el	9333 Jun 03 03:44	22° \mathbb{B} 07'24	25°54'17
morning set	9332 Jul 26 09:05	2° \mathbb{Q} 46'00			9333 Jun 10 01:00	0° \mathbb{H}	
max. Earth dist.	9332 Jul 30 17:55	11° \mathbb{Q} 24'03	1.33782 AU		9333 Jun 30 10:13	0° \mathbb{B}	
asc. node	9332 Aug 03 03:28	18° \mathbb{Q} 23'59		morning set	9333 Jul 09 05:54	15° \mathbb{B} 26'30	
				max. Earth dist.	9333 Jul 13 00:58	22° \mathbb{B} 34'27	1.35498 AU
superior conj	9332 Aug 03 20:30	19° \mathbb{Q} 53'16	0°07'06		9333 Jul 16 20:03	0° \mathbb{Q}	
minimum elong	9332 Aug 03 20:08	19° \mathbb{Q} 51'23	0°06'49				
behind sun begin	9332 Aug 03 15:00	19° \mathbb{Q} 24'22		superior conj	9333 Jul 18 14:42	3° \mathbb{Q} 34'07	-0°23'39
behind sun end	9332 Aug 04 01:17	20° \mathbb{Q} 18'26		minimum elong	9333 Jul 18 16:06	3° \mathbb{Q} 41'15	0°23'39
	9332 Aug 08 14:49	0° \mathbb{H}		asc. node	9333 Jul 21 00:25	8° \mathbb{Q} 28'29	
evening rise	9332 Aug 11 03:28	5° \mathbb{H} 21'25		evening rise	9333 Jul 26 11:01	19° \mathbb{Q} 42'42	
	9332 Aug 24 11:30	0° \mathbb{A}			9333 Jul 31 14:41	0° \mathbb{H}	
evening max el	9332 Aug 31 11:26	8° \mathbb{A} 39'01	21°42'28	evening max el	9333 Aug 13 13:39	19° \mathbb{H} 25'37	20°18'30
desc. node	9332 Sep 06 10:23	13° \mathbb{A} 08'47		retrograde	9333 Aug 24 10:13	24° \mathbb{H} 48'23	
retrograde	9332 Sep 12 21:42	14° \mathbb{A} 49'18		desc. node	9333 Aug 24 07:33	24° \mathbb{H} 48'21	
evening set	9332 Sep 15 16:05	14° \mathbb{A} 32'02		evening set	9333 Aug 26 09:46	24° \mathbb{H} 38'25	
inferior conj	9332 Sep 24 18:50	10° \mathbb{A} 34'03	-4°54'38	inferior conj	9333 Sep 04 12:29	20° \mathbb{H} 40'31	-3°20'41
minimum elong	9332 Sep 24 09:58	10° \mathbb{A} 46'26	4°52'45	minimum elong	9333 Sep 04 03:44	20° \mathbb{H} 53'21	3°17'48
min. Earth dist.	9332 Sep 24 14:06	10° \mathbb{A} 40'39	0.54699 AU	min. Earth dist.	9333 Sep 05 23:22	19° \mathbb{H} 49'21	0.54871 AU


































































































































morning rise	9333 Sep 12 20:56	16° \cap 33'52		minimum elong	9334 Aug 15 15:30	1° \cap 16'23	1°24'03
direct	9333 Sep 17 04:36	15° \cap 53'42			9334 Aug 17 13:13	30° κ 0	
morning max el	9333 Sep 30 15:47	22° \cap 26'34	23°47'31	min. Earth dist.	9334 Aug 18 12:19	29° \cap 22'09	0.55956 AU
	9333 Oct 07 07:36	0° Ω		morning rise	9334 Aug 23 21:51	26° \cap 29'03	
asc. node	9333 Oct 17 00:24	15° Ω 21'53		direct	9334 Aug 29 01:01	25° \cap 28'34	
	9333 Oct 24 09:01	0° \cap			9334 Sep 09 03:02	0° \cap	
morning set	9333 Oct 24 19:33	0° \cap 55'57		morning max el	9334 Sep 12 04:11	2° \cap 38'42	25°30'28
					9334 Oct 01 11:00	0° Ω	
superior conj	9333 Oct 31 17:19	15° \cap 53'35	1°40'22	asc. node	9334 Oct 03 21:20	4° Ω 37'22	
minimum elong	9333 Oct 31 16:56	15° \cap 51'30	1°40'35	morning set	9334 Oct 09 07:03	15° Ω 41'57	
max. Earth dist.	9333 Nov 03 05:02	21° \cap 14'33	1.33068 AU		9334 Oct 15 19:57	0° \cap	
	9333 Nov 07 09:54	0° κ					
evening rise	9333 Nov 08 06:28	1° κ 43'53		superior conj	9334 Oct 16 03:24	0° \cap 41'09	1°35'26
desc. node	9333 Nov 20 05:57	23° κ 42'35		minimum elong	9334 Oct 16 02:02	0° \cap 33'34	1°35'30
	9333 Nov 24 03:56	0° Σ		max. Earth dist.	9334 Oct 17 09:54	3° \cap 28'54	1.32107 AU
evening max el	9333 Dec 12 05:54	23° Σ 04'55	27°25'32	evening rise	9334 Oct 23 05:32	15° \cap 56'48	
	9333 Dec 22 20:57	0° \approx			9334 Oct 30 09:18	0° κ	
retrograde	9333 Dec 25 20:28	0° \approx 25'27		desc. node	9334 Nov 07 03:04	13° κ 19'14	
	9333 Dec 28 17:09	30° κ 3			9334 Nov 19 02:05	0° Σ	
evening set	9334 Jan 01 19:03	27° Σ 52'25		evening max el	9334 Nov 24 15:27	5° Σ 56'21	27°26'24
min. Earth dist.	9334 Jan 05 14:14	24° Σ 28'58	0.64120 AU	retrograde	9334 Dec 08 11:11	13° Σ 12'39	
inferior conj	9334 Jan 08 02:35	21° Σ 51'17	-1°37'28	evening set	9334 Dec 15 12:51	10° Σ 50'18	
minimum elong	9334 Jan 08 05:38	21° Σ 43'18	1°35'55	min. Earth dist.	9334 Dec 19 05:25	7° Σ 54'18	0.62217 AU
asc. node	9334 Jan 12 23:52	17° Σ 25'58		inferior conj	9334 Dec 22 03:47	5° Σ 10'28	-2°49'10
morning rise	9334 Jan 14 18:00	16° Σ 29'00		minimum elong	9334 Dec 22 09:18	4° Σ 57'37	2°46'48
direct	9334 Jan 17 05:22	15° Σ 58'12		morning rise	9334 Dec 29 08:04	0° Σ 05'51	
morning max el	9334 Jan 23 16:27	19° Σ 19'50	17°50'43		9334 Dec 29 15:41	30° κ 3	
	9334 Jan 31 15:25	0° \approx		asc. node	9334 Dec 30 20:57	29° κ 45'36	
morning set	9334 Feb 09 12:41	14° \approx 48'24		direct	9334 Dec 31 14:05	29° κ 43'18	
desc. node	9334 Feb 16 05:29	26° \approx 04'52			9335 Jan 02 11:54	0° Σ	
	9334 Feb 18 14:20	0° X		morning max el	9335 Jan 07 09:30	3° Σ 11'11	17°48'57
				morning set	9335 Jan 23 05:38	27° Σ 46'10	
superior conj	9334 Feb 22 15:38	6° X 36'42	-0°46'00		9335 Jan 24 11:41	0° \approx	
minimum elong	9334 Feb 22 10:31	6° X 16'00	0°45'09	desc. node	9335 Feb 03 02:23	16° \approx 46'05	
max. Earth dist.	9334 Feb 27 20:44	14° X 56'48	1.44896 AU				
	9334 Mar 09 12:30	0° Υ		superior conj	9335 Feb 03 12:07	17° \approx 27'20	-0°03'03
evening rise	9334 Mar 10 11:04	1° Υ 26'40		minimum elong	9335 Feb 03 11:51	17° \approx 26'12	0°02'46
	9334 Mar 29 16:55	0° B		behind sun begin	9335 Feb 03 03:08	16° \approx 49'18	
evening max el	9334 Apr 07 03:16	10° B 26'17	20°18'49	behind sun end	9335 Feb 03 20:33	18° \approx 03'01	
asc. node	9334 Apr 10 22:26	13° B 38'09		max. Earth dist.	9335 Feb 10 12:53	29° \approx 05'26	1.43590 AU
retrograde	9334 Apr 15 00:40	15° B 01'20			9335 Feb 11 02:23	0° X	
evening set	9334 Apr 18 23:11	13° B 31'46		evening rise	9335 Feb 18 01:08	10° X 59'36	
inferior conj	9334 Apr 24 06:43	7° B 26'48	3°12'13		9335 Mar 02 15:39	0° Υ	
minimum elong	9334 Apr 24 05:29	7° B 31'01	3°11'54	evening max el	9335 Mar 21 00:44	24° Υ 07'41	21°29'05
min. Earth dist.	9334 Apr 25 01:00	6° B 24'27	0.67802 AU	asc. node	9335 Mar 28 19:35	29° Υ 17'21	
morning rise	9334 Apr 29 11:33	1° B 09'30		retrograde	9335 Mar 29 23:00	29° Υ 23'54	
	9334 Apr 30 22:50	30° κ 3		evening set	9335 Apr 03 07:30	27° Υ 39'07	
direct	9334 May 05 03:17	28° κ 38'23		inferior conj	9335 Apr 08 14:36	21° Υ 22'59	2°52'59
	9334 May 09 18:27	0° B		minimum elong	9335 Apr 08 12:41	21° Υ 29'41	2°52'30
desc. node	9334 May 15 05:40	4° B 11'18		min. Earth dist.	9335 Apr 08 19:45	21° Υ 05'04	0.68383 AU
morning max el	9334 May 16 13:15	5° B 28'40	24°30'05	morning rise	9335 Apr 13 17:40	15° Υ 09'21	
	9334 Jun 04 11:30	0° II		direct	9335 Apr 18 19:55	12° Υ 56'11	
morning set	9334 Jun 21 08:25	27° II 13'38		morning max el	9335 Apr 28 23:15	18° Υ 57'05	23°00'10
	9334 Jun 22 22:11	0° E		desc. node	9335 May 02 02:36	22° Υ 20'58	
max. Earth dist.	9334 Jun 24 23:42	3° E 42'05	1.37583 AU		9335 May 08 06:12	0° B	
					9335 May 28 14:57	0° II	
superior conj	9334 Jul 01 21:44	16° E 39'46	-0°56'09	morning set	9335 Jun 02 11:18	7° II 53'56	
minimum elong	9334 Jul 02 01:19	16° E 57'03	0°55'49	max. Earth dist.	9335 Jun 06 20:01	15° II 16'22	1.39847 AU
asc. node	9334 Jul 07 21:23	28° E 27'13					
	9334 Jul 08 15:59	0° \cap		superior conj	9335 Jun 14 13:40	29° II 01'09	-1°27'46
evening rise	9334 Jul 10 13:01	3° \cap 44'30		minimum elong	9335 Jun 14 19:12	29° II 26'33	1°27'19
	9334 Jul 26 07:08	0° \cap			9335 Jun 15 02:29	0° E	
evening max el	9334 Jul 27 05:19	0° \cap 57'34	19°14'36	evening rise	9335 Jun 24 06:25	17° E 18'58	
retrograde	9334 Aug 05 09:39	5° \cap 30'40		asc. node	9335 Jun 24 18:23	18° E 16'11	
evening set	9334 Aug 07 06:17	5° \cap 20'14			9335 Jul 01 02:07	0° \cap	
desc. node	9334 Aug 11 04:43	3° \cap 57'07		evening max el	9335 Jul 10 08:03	13° \cap 12'30	18°31'46
inferior conj	9334 Aug 15 19:17	1° \cap 10'05	-1°25'21	retrograde	9335 Jul 18 03:08	17° \cap 05'54	

evening set	9335 Jul 20 05:14	16°Ω50'02		inferior conj	9336 Jul 08 23:45	24°☿15'31	1°41'05
inferior conj	9335 Jul 27 22:51	12°Ω20'55	0°20'21	minimum elong	9336 Jul 09 02:29	24°☿09'16	1°39'55
minimum elong	9335 Jul 27 23:36	12°Ω19'28	0°19'49	min. Earth dist.	9336 Jul 12 07:31	21°☿15'51	0.59944 AU
desc. node	9335 Jul 29 01:52	11°Ω27'59		desc. node	9336 Jul 14 22:58	19°☿11'15	
min. Earth dist.	9335 Jul 31 06:31	9°Ω46'51	0.57755 AU	morning rise	9336 Jul 16 01:14	18°☿28'20	
morning rise	9335 Aug 04 14:24	7°Ω02'59		direct	9336 Jul 22 12:38	16°☿28'46	
direct	9335 Aug 10 12:20	5°Ω33'59		morning max el	9336 Aug 05 20:42	24°☿22'27	27°43'41
morning max el	9335 Aug 24 21:04	13°Ω11'03	26°53'26		9336 Aug 10 23:25	0°Ω	
	9335 Sep 07 04:17	0°♊			9336 Aug 30 11:31	0°♊	
asc. node	9335 Sep 20 18:14	24°♊13'53		morning set	9336 Sep 06 22:43	14°♊44'51	
morning set	9335 Sep 23 16:40	0°♊19'49		asc. node	9336 Sep 06 15:07	14°♊05'13	
	9335 Sep 23 12:55	0°♊		max. Earth dist.	9336 Sep 13 04:28	28°♊13'36	1.31605 AU
					9336 Sep 13 23:41	0°♊	
superior conj	9335 Sep 30 15:05	15°♊30'26	1°24'55				
minimum elong	9335 Sep 30 13:04	15°♊19'12	1°24'45	superior conj	9336 Sep 14 02:32	0°♊15'48	1°09'11
max. Earth dist.	9335 Sep 30 18:50	15°♊51'18	1.31619 AU	minimum elong	9336 Sep 14 00:18	0°♊03'21	1°08'48
evening rise	9335 Oct 07 10:49	0°♋25'25		evening rise	9336 Sep 20 20:08	15°♊03'29	
	9335 Oct 07 06:02	0°♋			9336 Sep 28 05:23	0°♋	
	9335 Oct 23 11:40	0°♌		desc. node	9336 Oct 10 21:21	20°♋26'49	
desc. node	9335 Oct 25 00:12	2°♌18'49		evening max el	9336 Oct 18 16:03	29°♋22'25	25°47'59
evening max el	9335 Nov 06 19:33	18°♌04'29	26°53'42		9336 Oct 19 08:13	0°♌	
retrograde	9335 Nov 20 17:41	25°♌13'59		retrograde	9336 Nov 01 13:58	6°♌24'23	
evening set	9335 Nov 27 14:29	23°♌12'55		evening set	9336 Nov 07 19:11	4°♌53'54	
min. Earth dist.	9335 Dec 01 10:00	20°♌34'26	0.60140 AU	min. Earth dist.	9336 Nov 12 04:38	2°♌17'53	0.58075 AU
inferior conj	9335 Dec 04 14:07	17°♌58'58	-4°00'47	inferior conj	9336 Nov 15 06:11	0°♌07'32	-5°02'27
minimum elong	9335 Dec 04 21:31	17°♌43'49	3°58'16	minimum elong	9336 Nov 15 13:10	29°♋55'06	5°00'50
morning rise	9335 Dec 12 07:06	13°♌14'49			9336 Nov 15 10:25	30°♋♋	
direct	9335 Dec 14 11:06	12°♌56'57		morning rise	9336 Nov 23 09:29	25°♋45'47	
asc. node	9335 Dec 17 18:00	13°♌40'05		direct	9336 Nov 25 16:17	25°♋29'15	
morning max el	9335 Dec 21 22:49	16°♌40'07	18°06'00	asc. node	9336 Dec 03 15:00	29°♋04'33	
	9335 Dec 31 07:48	0°♍		morning max el	9336 Dec 04 04:42	29°♋36'35	18°43'40
morning set	9336 Jan 06 14:39	11°♍28'27			9336 Dec 04 14:12	0°♌	
				morning set	9336 Dec 20 10:50	25°♌41'03	
superior conj	9336 Jan 16 09:06	29°♍26'58	0°34'14		9336 Dec 22 15:53	0°♍	
minimum elong	9336 Jan 16 11:38	29°♍38'16	0°34'08				
	9336 Jan 16 16:31	0°♎		superior conj	9336 Dec 29 02:25	12°♍23'52	1°03'08
desc. node	9336 Jan 20 23:18	7°♎29'45		minimum elong	9336 Dec 29 05:41	12°♍39'14	1°03'00
max. Earth dist.	9336 Jan 24 00:12	12°♎39'12	1.41773 AU	max. Earth dist.	9337 Jan 05 07:34	25°♍32'33	1.39656 AU
evening rise	9336 Jan 29 05:58	21°♎15'24		desc. node	9337 Jan 06 20:14	28°♍12'25	
	9336 Feb 03 19:08	0°♏			9337 Jan 07 21:13	0°♎	
	9336 Feb 24 21:22	0°♐		evening rise	9337 Jan 09 07:59	2°♎27'49	
evening max el	9336 Mar 02 17:40	7°♐51'08	22°47'16		9337 Jan 27 01:29	0°♏	
retrograde	9336 Mar 12 19:14	13°♐48'45		evening max el	9337 Feb 13 07:54	21°♏37'50	24°07'31
asc. node	9336 Mar 14 16:45	13°♐30'58		retrograde	9337 Feb 24 12:06	28°♏11'27	
evening set	9336 Mar 17 14:55	11°♐49'10		evening set	9337 Mar 01 19:56	25°♏58'05	
inferior conj	9336 Mar 22 23:30	5°♐25'00	2°24'06	asc. node	9337 Mar 01 13:53	26°♏10'38	
minimum elong	9336 Mar 22 21:17	5°♐32'41	2°23'28	min. Earth dist.	9337 Mar 06 12:42	20°♏33'22	0.68247 AU
min. Earth dist.	9336 Mar 22 16:25	5°♐49'36	0.68525 AU	inferior conj	9337 Mar 07 07:34	19°♏29'33	1°46'11
	9336 Mar 27 08:15	30°♏♏		minimum elong	9337 Mar 07 05:30	19°♏36'33	1°45'34
morning rise	9336 Mar 28 03:31	29°♏16'29		morning rise	9337 Mar 12 15:07	13°♏27'41	
direct	9336 Apr 01 16:03	27°♏24'41		direct	9337 Mar 16 14:27	11°♏58'01	
	9336 Apr 07 16:18	0°♐		morning max el	9337 Mar 24 09:27	16°♏22'18	20°17'30
morning max el	9336 Apr 10 12:54	2°♐33'46	21°33'45		9337 Apr 04 06:01	0°♐	
desc. node	9336 Apr 17 23:29	11°♐18'29		desc. node	9337 Apr 04 20:20	0°♐50'46	
	9336 May 01 04:49	0°♑		morning set	9337 Apr 21 13:12	25°♐49'26	
morning set	9336 May 12 11:04	17°♑19'40			9337 Apr 24 05:45	0°♑	
max. Earth dist.	9336 May 18 20:50	27°♑41'53	1.42017 AU	max. Earth dist.	9337 May 01 05:21	11°♑02'17	1.43822 AU
	9336 May 20 06:09	0°♒					
superior conj	9336 May 26 09:57	10°♒28'13	-1°54'28	superior conj	9337 May 07 06:27	20°♑52'01	-2°10'31
minimum elong	9336 May 26 15:54	10°♒54'08	1°54'15	minimum elong	9337 May 07 09:19	21°♑03'53	2°10'41
evening rise	9336 Jun 06 11:22	0°♓16'38			9337 May 12 17:33	0°♒	
	9336 Jun 06 07:44	0°♓		evening rise	9337 May 19 23:15	12°♒26'28	
asc. node	9336 Jun 10 15:25	7°♓50'53		asc. node	9337 May 28 12:29	27°♒05'11	
evening max el	9336 Jun 22 17:55	26°♓01'16	18°09'10		9337 May 30 07:59	0°♓	
retrograde	9336 Jun 29 14:58	29°♓30'25		evening max el	9337 Jun 06 07:05	9°♓13'17	18°05'51
evening set	9336 Jul 02 00:49	29°♓05'14		retrograde	9337 Jun 12 17:27	12°♓33'46	
				evening set	9337 Jun 15 10:57	11°♓56'37	

inferior conj	9337 Jun 21 18:42	6°☿47'21	2°35'13	retrograde	9338 May 27 06:05	26°♊06'41	
minimum elong	9337 Jun 21 21:26	6°☿40'13	2°34'17	evening set	9338 May 30 07:02	25°♊15'56	
min. Earth dist.	9337 Jun 24 17:01	3°☿45'51	0.62196 AU	inferior conj	9338 Jun 05 03:38	19°♊49'00	3°06'33
morning rise	9337 Jun 28 05:58	0°☿41'13		minimum elong	9338 Jun 05 05:23	19°♊43'56	3°06'01
	9337 Jun 29 06:44	30°♋♊		min. Earth dist.	9338 Jun 07 12:02	17°♊06'11	0.64257 AU
desc. node	9337 Jul 01 20:03	28°♊47'12		morning rise	9338 Jun 11 02:37	13°♊32'58	
direct	9337 Jul 04 23:23	28°♊16'04		direct	9338 Jun 17 18:53	10°♊51'49	
	9337 Jul 11 02:20	0°☿		desc. node	9338 Jun 18 17:05	10°♊54'39	
morning max el	9337 Jul 19 02:32	6°☿17'51	27°55'48	morning max el	9338 Jul 01 12:14	18°♊52'09	27°31'10
	9337 Aug 06 01:17	0°♊			9338 Jul 10 22:01	0°☿	
morning set	9337 Aug 21 23:09	28°♊50'27			9338 Jul 30 00:21	0°♊	
	9337 Aug 22 12:45	0°♊		morning set	9338 Aug 05 15:32	12°♊30'23	
asc. node	9337 Aug 24 12:00	4°♊05'32		max. Earth dist.	9338 Aug 10 10:09	22°♊11'33	1.33016 AU
max. Earth dist.	9337 Aug 27 10:52	10°♊23'36	1.32067 AU	asc. node	9338 Aug 11 08:56	24°♊10'44	
superior conj	9337 Aug 29 11:55	14°♊50'37	0°48'32	superior conj	9338 Aug 13 17:18	29°♊09'37	0°23'24
minimum elong	9337 Aug 29 09:57	14°♊39'52	0°48'03	minimum elong	9338 Aug 13 16:10	29°♊03'37	0°22'58
evening rise	9337 Sep 05 07:25	29°♊43'54			9338 Aug 14 02:42	0°♊	
	9337 Sep 05 10:25	0°♊		evening rise	9338 Aug 20 18:50	14°♊21'26	
	9337 Sep 21 22:34	0°♊			9338 Aug 28 14:23	0°♊	
desc. node	9337 Sep 27 18:30	7°♊22'24		evening max el	9338 Sep 11 16:20	20°♊03'10	22°37'26
evening max el	9337 Sep 30 05:02	9°♊53'31	24°17'24	desc. node	9338 Sep 14 15:41	22°♊38'57	
retrograde	9337 Oct 13 22:16	16°♊46'08		retrograde	9338 Sep 24 18:38	26°♊35'08	
evening set	9337 Oct 18 23:18	15°♊50'04		evening set	9338 Sep 28 07:27	26°♊07'41	
min. Earth dist.	9337 Oct 24 15:49	12°♊58'01	0.56270 AU	min. Earth dist.	9338 Oct 05 23:48	22°♊41'56	0.55035 AU
inferior conj	9337 Oct 27 01:50	11°♊28'03	-5°37'48	inferior conj	9338 Oct 07 03:13	22°♊02'58	-5°26'48
minimum elong	9337 Oct 27 04:05	11°♊24'32	5°37'30	minimum elong	9338 Oct 06 21:39	22°♊10'54	5°26'04
morning rise	9337 Nov 04 10:57	7°♊27'49		morning rise	9338 Oct 15 13:42	18°♊15'06	
direct	9337 Nov 07 02:18	7°♊09'26		direct	9338 Oct 18 18:17	17°♊51'51	
morning max el	9337 Nov 16 23:34	11°♊50'11	19°43'40	morning max el	9338 Oct 30 05:18	23°♊14'48	21°05'58
asc. node	9337 Nov 20 11:57	15°♊44'28			9338 Nov 05 00:58	0°♊	
	9337 Nov 29 09:28	0°♊		asc. node	9338 Nov 07 08:55	3°♊24'21	
morning set	9337 Dec 04 14:30	10°♊13'11		morning set	9338 Nov 18 22:55	24°♊56'48	
					9338 Nov 21 08:57	0°♊	
superior conj	9337 Dec 12 11:05	26°♊04'15	1°23'22	superior conj	9338 Nov 26 06:49	10°♊15'33	1°35'32
minimum elong	9337 Dec 12 13:48	26°♊17'38	1°23'23	minimum elong	9338 Nov 26 08:24	10°♊23'39	1°35'43
	9337 Dec 14 11:10	0°♊		max. Earth dist.	9338 Nov 30 23:11	19°♊43'12	1.35473 AU
max. Earth dist.	9337 Dec 18 13:43	7°♊48'37	1.37475 AU	evening rise	9338 Dec 05 00:25	27°♊30'53	
evening rise	9337 Dec 22 07:09	14°♊35'36			9338 Dec 06 08:31	0°♊	
desc. node	9337 Dec 24 17:13	18°♊50'28		desc. node	9338 Dec 11 14:13	9°♊19'21	
	9337 Dec 31 10:02	0°♊			9338 Dec 24 18:01	0°♊	
	9338 Jan 21 20:03	0°♊		evening max el	9339 Jan 09 10:18	19°♊11'52	26°26'48
evening max el	9338 Jan 26 21:06	5°♊26'24	25°23'06	retrograde	9339 Jan 22 08:09	26°♊28'37	
retrograde	9338 Feb 08 00:38	12°♊27'06		evening set	9339 Jan 28 16:21	23°♊55'39	
evening set	9338 Feb 13 21:00	10°♊02'01		min. Earth dist.	9339 Feb 01 19:29	19°♊40'20	0.66502 AU
asc. node	9338 Feb 16 11:01	7°♊25'23		asc. node	9339 Feb 03 08:09	17°♊49'38	
min. Earth dist.	9338 Feb 18 06:27	5°♊12'10	0.67566 AU	inferior conj	9339 Feb 03 13:42	17°♊32'49	0°04'36
inferior conj	9338 Feb 19 12:58	3°♊33'41	0°59'36	minimum elong	9339 Feb 03 13:34	17°♊33'13	0°04'47
minimum elong	9338 Feb 19 11:35	3°♊38'11	0°59'13	transit middle	9339 Feb 03 13:34	17°♊33'13	0°04'47
	9338 Feb 22 11:19	30°♋♊		transit begin	9339 Feb 03 10:48	17°♊41'35	
morning rise	9338 Feb 25 02:33	27°♊40'01		transit end	9339 Feb 03 16:20	17°♊24'51	
direct	9338 Feb 28 13:41	26°♊31'06		morning rise	9339 Feb 09 11:41	11°♊49'19	
	9338 Mar 07 04:38	0°♊		direct	9339 Feb 12 12:04	10°♊58'12	
morning max el	9338 Mar 07 14:02	0°♊22'42	19°15'24	morning max el	9339 Feb 19 01:28	14°♊29'46	18°29'11
greatest brilliancy	9338 Mar 20 14:06	17°♊36'27	-0.7m		9339 Mar 02 12:52	0°♊	
desc. node	9338 Mar 22 17:11	20°♊48'39		desc. node	9339 Mar 09 14:01	11°♊04'43	
	9338 Mar 28 17:26	0°♊		morning set	9339 Mar 11 10:47	14°♊02'02	
morning set	9338 Mar 31 13:40	4°♊23'01			9339 Mar 21 13:43	0°♊	
max. Earth dist.	9338 Apr 13 20:17	25°♊03'53	1.45045 AU				
	9338 Apr 16 23:12	0°♊		superior conj	9339 Mar 27 09:32	9°♊07'28	-1°48'25
				minimum elong	9339 Mar 27 00:14	8°♊31'05	1°47'40
superior conj	9338 Apr 17 03:13	0°♊15'58	-2°09'37	max. Earth dist.	9339 Mar 27 14:43	9°♊27'41	1.45567 AU
minimum elong	9338 Apr 16 23:14	0°♊00'06	2°09'37		9339 Apr 09 16:42	0°♊	
evening rise	9338 May 01 13:33	23°♊39'53		evening rise	9339 Apr 12 03:59	3°♊54'19	
	9338 May 05 09:28	0°♊		greatest brilliancy	9339 Apr 21 10:21	18°♊31'49	-0.8m
asc. node	9338 May 15 09:34	15°♊52'25			9339 Apr 29 03:10	0°♊	
evening max el	9338 May 20 20:20	22°♊40'31	18°21'07				

asc. node	9339 May 02 06:42	4° Π 03'06		minimum elong	9340 Mar 05 11:43	17° X 45'08	1°09'58
evening max el	9339 May 04 06:59	6° Π 15'54	18°54'15	max. Earth dist.	9340 Mar 09 10:09	23° X 57'59	1.45351 AU
retrograde	9339 May 11 00:50	10° Π 00'26			9340 Mar 13 06:43	0° Υ	
evening set	9339 May 14 09:32	8° Π 55'07		evening rise	9340 Mar 21 22:44	13° Υ 25'26	
inferior conj	9339 May 19 22:42	3° Π 12'17	3°19'44		9340 Apr 01 19:06	0° B	
minimum elong	9339 May 19 23:10	3° Π 10'46	3°19'27	greatest brilliancy	9340 Apr 04 20:59	4° B 35'37	-0.7m
min. Earth dist.	9339 May 21 15:57	1° Π 02'35	0.65972 AU	evening max el	9340 Apr 16 13:09	19° B 55'09	19°43'51
	9339 May 22 12:34	30° R B		asc. node	9340 Apr 18 03:50	21° B 25'58	
morning rise	9339 May 25 12:12	26° B 52'51		retrograde	9340 Apr 23 22:39	24° B 09'04	
direct	9339 May 31 21:49	24° B 07'15		evening set	9340 Apr 27 15:51	22° B 48'32	
desc. node	9339 Jun 05 14:04	25° B 20'07		inferior conj	9340 May 03 00:41	16° B 51'20	3°18'27
	9339 Jun 12 00:21	0° Π		minimum elong	9340 May 02 24:00	16° B 53'37	3°18'11
morning max el	9339 Jun 13 22:56	1° Π 52'51	26°36'10	min. Earth dist.	9340 May 04 03:07	15° B 23'10	0.67265 AU
	9339 Jul 05 01:22	0° B		morning rise	9340 May 08 07:49	10° B 32'36	
morning set	9339 Jul 19 20:40	25° B 36'03		direct	9340 May 14 06:53	7° B 53'26	
	9339 Jul 22 03:47	0° Ω		desc. node	9340 May 22 11:03	11° B 33'54	
max. Earth dist.	9339 Jul 23 23:10	3° Ω 32'46	1.34453 AU	morning max el	9340 May 26 08:42	15° B 08'02	25°19'43
					9340 Jun 07 13:10	0° Π	
superior conj	9339 Jul 28 16:22	13° Ω 06'40	-0°05'38		9340 Jun 26 22:10	0° B	
minimum elong	9339 Jul 28 16:42	13° Ω 08'21	0°05'48	morning set	9340 Jul 01 10:20	7° B 55'36	
behind sun begin	9339 Jul 28 11:14	12° Ω 40'04		max. Earth dist.	9340 Jul 05 01:38	14° B 36'26	1.36341 AU
behind sun end	9339 Jul 28 22:10	13° Ω 36'40					
asc. node	9339 Jul 29 05:54	14° Ω 16'51		superior conj	9340 Jul 11 06:16	26° B 33'50	-0°37'21
evening rise	9339 Aug 05 04:25	28° Ω 50'27		minimum elong	9340 Jul 11 08:34	26° B 45'16	0°37'11
	9339 Aug 05 17:46	0° M			9340 Jul 12 23:32	0° Ω	
	9339 Aug 23 23:47	0° B		asc. node	9340 Jul 15 02:53	4° Ω 19'32	
evening max el	9339 Aug 24 11:24	0° B 29'15	21°04'34	evening rise	9340 Jul 19 09:55	13° Ω 04'13	
desc. node	9339 Sep 01 12:51	5° B 45'47			9340 Jul 28 07:29	0° M	
retrograde	9339 Sep 05 07:11	6° B 20'57		evening max el	9340 Aug 05 19:36	11° M 35'36	19°48'51
evening set	9339 Sep 07 15:00	6° B 08'14		retrograde	9340 Aug 15 22:36	16° M 36'06	
inferior conj	9339 Sep 16 19:45	2° B 11'59	-4°19'42	evening set	9340 Aug 17 19:22	16° M 26'40	
minimum elong	9339 Sep 16 10:01	2° B 25'43	4°17'03	desc. node	9340 Aug 18 10:02	16° M 19'38	
min. Earth dist.	9339 Sep 17 08:22	1° B 54'08	0.54650 AU	inferior conj	9340 Aug 26 17:34	12° M 25'18	-2°32'20
	9339 Sep 20 21:06	30° R M		minimum elong	9340 Aug 26 10:40	12° M 35'53	2°29'55
morning rise	9339 Sep 25 05:24	28° M 17'46		min. Earth dist.	9340 Aug 28 19:11	11° M 09'12	0.55228 AU
direct	9339 Sep 29 02:26	27° M 45'27		morning rise	9340 Sep 04 00:08	8° M 05'17	
	9339 Oct 06 19:42	0° B		direct	9340 Sep 08 16:14	7° M 17'16	
morning max el	9339 Oct 11 23:22	3° B 54'33	22°46'00	morning max el	9340 Sep 22 11:24	14° M 07'26	24°32'33
asc. node	9339 Oct 25 05:52	21° B 50'25			9340 Oct 04 21:33	0° B	
	9339 Oct 29 15:23	0° M		asc. node	9340 Oct 11 02:48	10° B 50'36	
morning set	9339 Nov 03 09:58	9° M 45'58		morning set	9340 Oct 17 21:46	24° B 34'23	
					9340 Oct 20 10:06	0° M	
superior conj	9339 Nov 10 10:14	24° M 47'53	1°40'29				
minimum elong	9339 Nov 10 10:32	24° M 49'29	1°40'43	superior conj	9340 Oct 24 18:31	9° M 31'44	1°38'59
	9339 Nov 12 21:14	0° X		minimum elong	9340 Oct 24 17:41	9° M 27'10	1°39'08
max. Earth dist.	9339 Nov 13 16:08	1° X 38'31	1.33822 AU	max. Earth dist.	9340 Oct 26 17:13	13° M 45'43	1.32607 AU
evening rise	9339 Nov 18 08:04	11° X 04'27		evening rise	9340 Nov 01 02:22	25° M 05'31	
desc. node	9339 Nov 28 11:19	29° X 34'04			9340 Nov 03 13:12	0° X	
	9339 Nov 28 17:28	0° B		desc. node	9340 Nov 14 08:25	19° X 27'02	
	9339 Dec 20 05:45	0° \approx			9340 Nov 21 05:27	0° B	
evening max el	9339 Dec 22 23:30	2° \approx 46'46	27°11'20	evening max el	9340 Dec 04 11:14	15° B 58'27	27°29'50
retrograde	9340 Jan 05 09:47	10° \approx 08'37		retrograde	9340 Dec 18 04:37	23° B 17'18	
evening set	9340 Jan 12 03:56	7° \approx 33'36		evening set	9340 Dec 25 05:05	20° B 48'02	
min. Earth dist.	9340 Jan 16 01:41	3° \approx 51'41	0.65083 AU	min. Earth dist.	9340 Dec 28 22:54	17° B 36'43	0.63343 AU
inferior conj	9340 Jan 18 07:31	1° \approx 22'27	-0°58'12	inferior conj	9340 Dec 31 15:40	14° B 55'07	-2°07'28
minimum elong	9340 Jan 18 09:15	1° \approx 17'38	0°57'12	minimum elong	9340 Dec 31 19:45	14° B 44'54	2°05'33
	9340 Jan 19 13:40	30° R B		asc. node	9341 Jan 07 02:19	9° B 49'52	
asc. node	9340 Jan 21 05:15	28° B 20'12		morning rise	9341 Jan 07 12:26	9° B 39'37	
morning rise	9340 Jan 24 16:03	25° B 51'25		direct	9341 Jan 09 21:11	9° B 12'46	
direct	9340 Jan 27 07:28	25° B 14'23		morning max el	9341 Jan 16 10:54	12° B 36'09	17°47'38
morning max el	9340 Feb 02 17:25	28° B 37'03	17°59'43		9341 Jan 28 09:14	0° \approx	
	9340 Feb 04 00:47	0° \approx		morning set	9341 Feb 01 18:17	7° \approx 33'04	
morning set	9340 Feb 20 13:25	25° \approx 09'26		desc. node	9341 Feb 10 07:50	22° \approx 12'05	
	9340 Feb 23 11:59	0° X					
desc. node	9340 Feb 24 10:55	1° X 34'05		superior conj	9341 Feb 14 01:29	28° \approx 24'43	-0°27'22
				minimum elong	9341 Feb 13 22:35	28° \approx 12'47	0°26'45
superior conj	9340 Mar 05 19:39	18° X 16'36	-1°11'02		9341 Feb 15 00:42	0° X	

max. Earth dist.	9341 Feb 20 04:27	8° H 20'05	1.44419 AU	behind sun begin	9342 Jan 26 05:39	9° \approx 32'28	
evening rise	9341 Mar 01 10:02	22° H 47'04		behind sun end	9342 Jan 26 14:09	10° \approx 09'14	
	9341 Mar 06 03:36	0° Y		desc. node	9342 Jan 28 04:43	12° \approx 54'49	
	9341 Mar 27 08:09	0° B		max. Earth dist.	9342 Feb 02 19:15	22° \approx 17'39	1.42874 AU
evening max el	9341 Mar 30 13:51	3° B 36'17	20°47'33		9342 Feb 07 13:47	0° H	
asc. node	9341 Apr 05 00:57	7° B 47'28		evening rise	9342 Feb 09 05:07	2° H 35'29	
retrograde	9341 Apr 07 21:13	8° B 27'55			9342 Feb 27 14:25	0° Y	
evening set	9341 Apr 11 23:54	6° B 51'52		evening max el	9342 Mar 13 09:13	17° Y 18'26	22°01'43
inferior conj	9341 Apr 17 07:01	0° B 42'05	3°05'17	retrograde	9342 Mar 22 18:44	22° Y 52'08	
minimum elong	9341 Apr 17 05:26	0° B 47'31	3°04'54	asc. node	9342 Mar 22 22:04	22° Y 52'03	
	9341 Apr 17 19:13	30° R Y		evening set	9342 Mar 27 08:00	21° Y 00'45	
min. Earth dist.	9341 Apr 17 19:37	29° Y 58'38	0.68106 AU	inferior conj	9342 Apr 01 15:31	14° Y 40'49	2°41'50
morning rise	9341 Apr 22 10:46	24° Y 26'22		minimum elong	9342 Apr 01 13:25	14° Y 48'08	2°41'17
direct	9341 Apr 27 20:59	22° Y 02'08		min. Earth dist.	9342 Apr 01 15:17	14° Y 41'36	0.68498 AU
morning max el	9341 May 08 17:54	28° Y 31'42	23°51'58	morning rise	9342 Apr 06 18:41	8° Y 29'28	
desc. node	9341 May 09 08:00	29° Y 07'52		direct	9342 Apr 11 15:04	6° Y 25'19	
	9341 May 10 03:43	0° B		morning max el	9342 Apr 21 05:02	12° Y 03'20	22°22'35
	9341 Jun 01 06:39	0° II		desc. node	9342 Apr 26 04:54	17° Y 39'40	
morning set	9341 Jun 13 03:25	19° II 15'48			9342 May 05 11:27	0° B	
max. Earth dist.	9341 Jun 16 22:30	25° II 52'09	1.38538 AU	morning set	9342 May 24 18:47	29° B 23'51	
	9341 Jun 19 05:53	0° E			9342 May 25 03:40	0° II	
				max. Earth dist.	9342 May 29 20:39	7° II 48'43	1.40800 AU
superior conj	9341 Jun 24 07:27	9° E 22'27	-1°09'51	superior conj	9342 Jun 06 15:31	21° II 21'29	-1°39'59
minimum elong	9341 Jun 24 11:57	9° E 43'41	1°09'26	minimum elong	9342 Jun 06 21:32	21° II 48'28	1°39'36
asc. node	9341 Jul 01 23:52	24° E 15'01			9342 Jun 11 09:24	0° E	
evening rise	9341 Jul 03 08:40	26° E 55'43		evening rise	9342 Jun 16 21:15	10° E 15'39	
	9341 Jul 04 22:27	0° O		asc. node	9342 Jun 18 20:52	13° E 58'25	
evening max el	9341 Jul 19 16:27	23° O 27'06	18°53'52		9342 Jun 28 03:57	0° O	
retrograde	9341 Jul 28 05:09	27° O 41'26		evening max el	9342 Jul 02 22:35	5° O 56'45	18°19'42
evening set	9341 Jul 30 03:45	27° O 29'06		retrograde	9342 Jul 10 06:56	9° O 38'15	
desc. node	9341 Aug 05 07:10	24° O 36'44		evening set	9342 Jul 12 12:13	9° O 18'50	
inferior conj	9341 Aug 07 08:42	23° O 11'09	-0°38'04	inferior conj	9342 Jul 19 21:31	4° O 40'34	0°57'56
minimum elong	9341 Aug 07 07:06	23° O 13'59	0°37'39	minimum elong	9342 Jul 19 23:25	4° O 36'36	0°57'00
min. Earth dist.	9341 Aug 10 09:52	21° O 01'57	0.56654 AU	desc. node	9342 Jul 23 04:17	1° O 57'26	
morning rise	9341 Aug 15 07:12	18° O 14'27		min. Earth dist.	9342 Jul 23 06:32	1° O 52'58	0.58655 AU
direct	9341 Aug 20 18:51	17° O 02'40			9342 Jul 25 20:53	30° R E	
morning max el	9341 Sep 04 01:00	24° O 24'35	26°09'03	morning rise	9342 Jul 27 07:16	29° E 08'50	
	9341 Sep 09 04:13	0° H		direct	9342 Aug 02 11:31	27° E 27'03	
asc. node	9341 Sep 27 23:44	0° A 16'15			9342 Aug 10 09:37	0° O	
	9341 Sep 27 20:28	0° A		morning max el	9342 Aug 16 20:50	5° O 12'05	27°19'27
morning set	9341 Oct 02 08:40	9° A 17'42			9342 Sep 04 04:36	0° H	
superior conj	9341 Oct 09 05:30	24° A 20'45	1°31'38	asc. node	9342 Sep 14 20:39	19° H 59'47	
minimum elong	9341 Oct 09 03:48	24° A 11'21	1°31'36	morning set	9342 Sep 16 17:00	23° H 50'47	
max. Earth dist.	9341 Oct 10 00:26	26° A 05'36	1.31852 AU		9342 Sep 19 13:49	0° A	
	9341 Oct 11 18:59	0° M		superior conj	9342 Sep 23 17:16	9° A 08'47	1°18'52
evening rise	9341 Oct 16 04:24	9° M 26'14		minimum elong	9342 Sep 23 15:06	8° A 56'42	1°18'36
	9341 Oct 26 21:00	0° A		max. Earth dist.	9342 Sep 23 10:15	8° A 29'47	1.31555 AU
desc. node	9341 Nov 01 05:31	8° A 49'29		evening rise	9342 Sep 30 11:38	23° A 59'21	
evening max el	9341 Nov 16 18:59	28° A 33'25	27°16'36		9342 Oct 03 08:39	0° M	
	9341 Nov 18 09:17	0° B		desc. node	9342 Oct 19 02:39	27° M 29'27	
retrograde	9341 Nov 30 15:37	5° B 45'52			9342 Oct 20 21:49	0° A	
evening set	9341 Dec 07 16:28	3° B 31'27		evening max el	9342 Oct 29 19:54	10° A 20'21	26°29'25
min. Earth dist.	9341 Dec 11 09:31	0° B 44'25	0.61356 AU	retrograde	9342 Nov 12 17:56	17° A 26'47	
	9341 Dec 12 06:05	30° R A		evening set	9342 Nov 19 09:52	15° A 37'24	
inferior conj	9341 Dec 14 10:58	28° A 02'32	-3°20'00	min. Earth dist.	9342 Nov 23 09:24	13° A 02'27	0.59251 AU
minimum elong	9341 Dec 14 17:25	27° A 48'15	3°17'27	inferior conj	9342 Nov 26 13:56	10° A 35'25	-4°28'58
morning rise	9341 Dec 21 20:45	23° A 06'02		minimum elong	9342 Nov 26 21:34	10° A 20'42	4°26'41
direct	9341 Dec 24 01:35	22° A 45'46		morning rise	9342 Dec 04 11:47	6° A 01'01	
asc. node	9341 Dec 24 23:23	22° A 49'19		direct	9342 Dec 06 16:24	5° A 44'04	
morning max el	9341 Dec 31 02:43	26° A 18'47	17°53'45	asc. node	9342 Dec 11 20:25	7° A 23'59	
	9342 Jan 03 06:55	0° B		morning max el	9342 Dec 14 13:24	9° A 35'55	18°19'26
morning set	9342 Jan 15 18:45	20° B 52'02			9342 Dec 27 19:56	0° B	
	9342 Jan 20 19:50	0° \approx		morning set	9342 Dec 30 09:05	4° B 49'17	
superior conj	9342 Jan 26 08:42	9° \approx 45'37	0°13'45	superior conj	9343 Jan 08 15:03	22° B 12'25	0°47'33
minimum elong	9342 Jan 26 09:54	9° \approx 50'52	0°13'48				

minimum elong	9343 Jan 08 18:06	22°  26'21	0°47'24	minimum elong	9343 Dec 22 18:40	5°  45'02	1°12'39
	9343 Jan 12 23:21	0° 		max. Earth dist.	9343 Dec 29 10:44	18°  10'18	1.38718 AU
desc. node	9343 Jan 15 01:38	3°  38'58		desc. node	9344 Jan 01 22:36	24°  20'23	
max. Earth dist.	9343 Jan 16 04:51	5°  35'43	1.40894 AU	evening rise	9344 Jan 02 05:58	24°  52'16	
evening rise	9343 Jan 20 18:39	13°  15'08			9344 Jan 05 06:26	0° 	
	9343 Jan 31 10:40	0° 			9344 Jan 25 03:32	0° 	
	9343 Feb 23 00:01	0° 		evening max el	9344 Feb 06 14:09	14°  50'41	24°40'35
evening max el	9343 Feb 24 00:37	1°  03'03	23°21'26	retrograde	9344 Feb 18 05:07	21°  37'49	
retrograde	9343 Mar 06 13:48	7°  17'23		evening set	9344 Feb 23 18:10	19°  31'12	
asc. node	9343 Mar 09 19:13	6°  26'46		asc. node	9344 Feb 24 16:22	18°  32'11	
evening set	9343 Mar 11 14:36	5°  11'31		min. Earth dist.	9344 Feb 28 07:40	14°  09'05	0.68005 AU
	9343 Mar 16 02:23	30° 		inferior conj	9344 Feb 29 07:29	12°  49'51	1°27'28
min. Earth dist.	9343 Mar 16 12:04	29°  26'49	0.68457 AU	minimum elong	9344 Feb 29 05:38	12°  56'00	1°26'56
inferior conj	9343 Mar 17 00:17	28°  44'44	2°09'04	morning rise	9344 Mar 05 17:18	6°  51'03	
minimum elong	9343 Mar 16 22:05	28°  52'21	2°08'26	direct	9344 Mar 09 11:12	5°  30'34	
morning rise	9343 Mar 22 05:31	22°  38'56		morning max el	9344 Mar 16 21:29	9°  39'48	19°49'05
direct	9343 Mar 26 12:13	20°  56'51		desc. node	9344 Mar 29 22:38	26°  37'50	
morning max el	9343 Apr 03 21:30	25°  45'52	20°59'46	greatest brilliancy	9344 Mar 29 20:02	26°  38'21	-0.6m
	9343 Apr 07 17:21	0° 			9344 Apr 01 05:26	0° 	
desc. node	9343 Apr 13 01:46	6°  53'37		morning set	9344 Apr 12 06:08	16°  43'36	
	9343 Apr 28 22:03	0° 			9344 Apr 20 18:47	0° 	
morning set	9343 May 04 07:50	8°  21'24		max. Earth dist.	9344 Apr 23 11:25	4°  15'32	1.44421 AU
max. Earth dist.	9343 May 12 00:32	20°  37'55	1.42845 AU				
	9343 May 17 16:25	0° 		superior conj	9344 Apr 28 11:57	12°  18'40	-2°12'33
superior conj	9343 May 19 01:57	2°  21'39	-2°02'58	minimum elong	9344 Apr 28 12:12	12°  19'41	2°12'44
minimum elong	9343 May 19 07:08	2°  43'41	2°02'55		9344 May 09 04:28	0° 	
evening rise	9343 May 30 19:32	22°  54'14		evening rise	9344 May 11 22:42	4°  40'44	
	9343 Jun 03 19:04	0° 		asc. node	9344 May 22 14:57	22°  58'59	
asc. node	9343 Jun 05 17:53	3°  25'03			9344 May 27 22:44	0° 	
evening max el	9343 Jun 16 10:11	18°  55'49	18°05'25	evening max el	9344 May 29 23:48	2°  15'41	18°10'11
retrograde	9343 Jun 23 01:35	22°  19'46		retrograde	9344 Jun 05 08:47	5°  36'48	
evening set	9343 Jun 25 14:34	21°  49'55		evening set	9344 Jun 08 05:27	4°  54'06	
inferior conj	9343 Jul 02 06:34	16°  51'45	2°07'07		9344 Jun 13 23:42	30° 	
minimum elong	9343 Jul 02 09:29	16°  44'41	2°06'00	inferior conj	9344 Jun 14 08:00	29°  37'27	2°51'00
min. Earth dist.	9343 Jul 05 11:12	13°  48'11	0.60908 AU	minimum elong	9344 Jun 14 10:23	29°  30'55	2°50'14
morning rise	9343 Jul 09 01:49	10°  54'53		min. Earth dist.	9344 Jun 17 00:52	26°  41'23	0.63108 AU
desc. node	9343 Jul 10 01:22	10°  58'50		morning rise	9344 Jun 20 13:43	23°  26'10	
direct	9343 Jul 15 16:35	8°  43'19		desc. node	9344 Jun 25 22:25	20°  58'39	
morning max el	9343 Jul 29 23:28	16°  42'29	27°53'36	direct	9344 Jun 27 07:35	20°  52'27	
	9343 Aug 09 22:38	0° 		morning max el	9344 Jul 11 07:09	28°  55'30	27°49'28
	9343 Aug 27 19:50	0° 			9344 Jul 12 08:16	0° 	
morning set	9343 Aug 31 20:55	8°  08'04		morning set	9344 Aug 02 20:00	0° 	
asc. node	9343 Sep 01 17:32	9°  55'20		asc. node	9344 Aug 14 18:17	22°  03'58	
max. Earth dist.	9343 Sep 06 18:51	20°  47'10	1.31732 AU		9344 Aug 18 14:27	29°  05'29	
					9344 Aug 18 14:44	0° 	
superior conj	9343 Sep 08 04:04	23°  49'59	1°01'00	max. Earth dist.	9344 Aug 19 22:28	2°  48'02	1.32402 AU
minimum elong	9343 Sep 08 01:52	23°  37'53	1°00'34				
	9343 Sep 10 23:00	0° 		superior conj	9344 Aug 22 12:02	8°  19'21	0°38'24
evening rise	9343 Sep 14 21:58	8°  43'31		minimum elong	9344 Aug 22 10:21	8°  10'14	0°37'56
	9343 Sep 25 19:57	0° 		evening rise	9344 Aug 29 09:33	23°  18'37	
desc. node	9343 Oct 05 23:48	15°  09'35			9344 Sep 01 14:06	0° 	
evening max el	9343 Oct 11 12:41	21°  16'01	25°11'47		9344 Sep 20 10:48	0° 	
retrograde	9343 Oct 25 09:51	28°  15'42		desc. node	9344 Sep 21 20:58	1°  27'05	
evening set	9343 Oct 31 04:25	26°  59'46		evening max el	9344 Sep 22 00:06	1°  34'42	23°35'09
min. Earth dist.	9343 Nov 05 00:31	24°  19'12	0.57247 AU	retrograde	9344 Oct 05 13:01	8°  20'26	
inferior conj	9343 Nov 07 21:24	22°  18'44	-5°21'54	evening set	9344 Oct 09 22:38	7°  38'13	
minimum elong	9343 Nov 08 02:59	22°  14'41	5°20'54	min. Earth dist.	9344 Oct 16 10:14	4°  33'35	0.55651 AU
morning rise	9343 Nov 16 03:51	18°  12'12		inferior conj	9344 Oct 18 08:43	3°  24'35	-5°39'54
direct	9343 Nov 18 13:20	17°  55'25		minimum elong	9344 Oct 18 07:43	3°  26'04	5°39'44
morning max el	9343 Nov 27 15:08	22°  16'02	19°06'26		9344 Oct 25 02:32	30° 	
asc. node	9343 Nov 28 17:25	23°  22'40		morning rise	9344 Oct 26 18:46	29°  43'05	
	9343 Dec 03 19:10	0° 		direct	9344 Oct 29 15:10	29°  43'10'50	
morning set	9343 Dec 14 08:51	19°  41'24			9344 Nov 02 22:44	0° 	
	9343 Dec 19 19:44	0° 		morning max el	9344 Nov 09 04:32	4°  09'19	20°16'02
superior conj	9343 Dec 22 15:31	5°  29'56	1°12'43	asc. node	9344 Nov 14 14:24	10°  30'02	
					9344 Nov 25 17:40	0° 	
				morning set	9344 Nov 27 14:53	3°  49'20	

superior conj	9344 Dec 05 05:24	19°♊24'47	1°29'25		9345 Nov 17 09:57	0°♊	
minimum elong	9344 Dec 05 07:40	19°♊36'12	1°29'32				
max. Earth dist.	9344 Dec 10 17:38	0°♊14'20	1.36594 AU	superior conj	9345 Nov 19 04:44	3°♊45'22	1°38'27
	9344 Dec 10 14:38	0°♊		minimum elong	9345 Nov 19 05:46	3°♊50'46	1°38'41
evening rise	9344 Dec 14 13:22	7°♊21'54		max. Earth dist.	9345 Nov 23 06:14	12°♊07'41	1.34724 AU
desc. node	9344 Dec 18 19:37	14°♊55'15		evening rise	9345 Nov 27 13:11	20°♊34'06	
	9344 Dec 28 01:26	0°♊			9345 Dec 02 15:38	0°♊	
evening max el	9345 Jan 19 03:29	28°♊39'29	25°52'04	desc. node	9345 Dec 05 16:41	5°♊18'41	
	9345 Jan 20 13:41	0°♊			9345 Dec 22 00:05	0°♊	
retrograde	9345 Jan 31 15:37	5°♊48'05		evening max el	9346 Jan 01 16:59	12°♊22'16	26°48'33
evening set	9345 Feb 06 17:02	3°♊19'25		retrograde	9346 Jan 14 20:32	19°♊41'30	
	9345 Feb 09 22:50	30°♊		evening set	9346 Jan 21 09:22	17°♊07'01	
asc. node	9345 Feb 10 13:30	29°♊15'49		min. Earth dist.	9346 Jan 25 10:11	13°♊06'10	0.65944 AU
min. Earth dist.	9345 Feb 10 23:49	28°♊44'00	0.67164 AU	inferior conj	9346 Jan 27 09:19	10°♊48'40	-0°21'04
inferior conj	9345 Feb 12 11:12	26°♊52'42	0°37'19	minimum elong	9346 Jan 27 09:54	10°♊46'57	0°20'35
minimum elong	9345 Feb 12 10:16	26°♊55'38	0°37'08	asc. node	9346 Jan 28 10:37	9°♊35'35	
morning rise	9345 Feb 18 04:03	21°♊02'47		morning rise	9346 Feb 02 11:31	5°♊10'05	
direct	9345 Feb 21 10:27	20°♊01'43		direct	9346 Feb 05 07:59	4°♊25'16	
morning max el	9345 Feb 28 05:08	23°♊43'20	18°53'35	morning max el	9346 Feb 11 18:49	7°♊51'25	18°14'35
	9345 Mar 05 11:59	0°♊			9346 Feb 27 06:19	0°♊	
desc. node	9345 Mar 16 19:30	16°♊44'14		morning set	9346 Mar 02 22:58	5°♊56'49	
morning set	9345 Mar 22 13:16	25°♊39'06		desc. node	9346 Mar 03 16:23	7°♊06'52	
	9345 Mar 25 08:15	0°♊					
max. Earth dist.	9345 Apr 06 04:09	18°♊28'31	1.45364 AU	superior conj	9346 Mar 18 06:24	0°♊16'50	-1°34'00
				minimum elong	9346 Mar 17 20:53	29°♊39'29	1°33'01
superior conj	9345 Apr 08 00:49	21°♊23'55	-2°03'02		9346 Mar 18 02:07	0°♊	
minimum elong	9345 Apr 07 17:55	20°♊56'47	2°02'46	max. Earth dist.	9346 Mar 20 00:03	2°♊59'57	1.45572 AU
	9345 Apr 13 11:28	0°♊		evening rise	9346 Apr 03 08:00	25°♊22'04	
evening rise	9345 Apr 23 02:47	15°♊28'00			9346 Apr 06 07:15	0°♊	
	9345 May 02 02:46	0°♊		greatest brilliancy	9346 Apr 14 17:30	13°♊02'08	-0.7m
asc. node	9345 May 09 12:03	11°♊01'47		asc. node	9346 Apr 26 09:11	28°♊53'56	
evening max el	9345 May 13 12:19	15°♊47'21	18°33'11	evening max el	9346 Apr 26 21:18	29°♊25'15	19°13'23
retrograde	9345 May 20 00:21	19°♊19'27			9346 Apr 27 11:28	0°♊	
evening set	9345 May 23 04:38	18°♊22'29		retrograde	9346 May 03 20:47	3°♊20'51	
inferior conj	9345 May 28 21:39	12°♊48'41	3°14'07	evening set	9346 May 07 09:05	2°♊08'54	
minimum elong	9345 May 28 22:52	12°♊45'02	3°13'43		9346 May 09 19:17	30°♊	
min. Earth dist.	9345 May 30 23:38	10°♊18'42	0.65040 AU	inferior conj	9346 May 12 20:02	26°♊19'33	3°20'46
morning rise	9345 Jun 03 16:15	6°♊30'54		minimum elong	9346 May 12 19:59	26°♊19'41	3°20'31
direct	9345 Jun 10 06:26	3°♊46'25		min. Earth dist.	9346 May 14 06:46	24°♊27'11	0.66581 AU
desc. node	9345 Jun 12 19:27	4°♊07'53		morning rise	9346 May 18 06:29	20°♊00'10	
morning max el	9345 Jun 23 17:21	11°♊41'32	27°10'58	direct	9346 May 24 11:55	17°♊16'27	
	9345 Jul 08 06:49	0°♊		desc. node	9346 May 30 16:26	19°♊23'29	
	9345 Jul 26 08:54	0°♊		morning max el	9346 Jun 06 03:52	24°♊50'04	26°05'41
morning set	9345 Jul 29 06:15	5°♊29'55			9346 Jun 10 19:57	0°♊	
max. Earth dist.	9345 Aug 02 17:34	14°♊23'57	1.33571 AU		9346 Jul 01 17:52	0°♊	
asc. node	9345 Aug 05 11:23	20°♊04'20		morning set	9346 Jul 12 05:20	18°♊17'05	
				max. Earth dist.	9346 Jul 16 02:14	25°♊36'59	1.35216 AU
superior conj	9345 Aug 06 15:01	22°♊29'41	0°11'31		9346 Jul 18 07:58	0°♊	
minimum elong	9345 Aug 06 14:26	22°♊26'37	0°11'11				
behind sun begin	9345 Aug 06 10:24	22°♊05'20		superior conj	9346 Jul 21 10:33	6°♊14'39	-0°18'51
behind sun end	9345 Aug 06 18:28	22°♊47'55		minimum elong	9346 Jul 21 11:39	6°♊20'18	0°18'52
	9345 Aug 10 03:37	0°♊		asc. node	9346 Jul 23 08:20	10°♊09'16	
evening rise	9345 Aug 13 20:25	7°♊53'07		evening rise	9346 Jul 29 04:34	22°♊16'25	
	9345 Aug 25 11:57	0°♊			9346 Aug 02 00:10	0°♊	
evening max el	9345 Sep 03 13:44	11°♊46'51	21°56'18	evening max el	9346 Aug 16 13:55	22°♊27'08	20°29'47
desc. node	9345 Sep 08 18:09	15°♊52'01		desc. node	9346 Aug 26 15:19	27°♊54'53	
retrograde	9345 Sep 16 04:28	18°♊03'12		retrograde	9346 Aug 27 16:43	27°♊57'46	
evening set	9345 Sep 19 03:21	17°♊43'42		evening set	9346 Aug 29 17:50	27°♊47'22	
min. Earth dist.	9345 Sep 27 17:53	13°♊59'27	0.54761 AU	inferior conj	9346 Sep 07 21:33	23°♊50'11	-3°37'06
inferior conj	9345 Sep 28 04:41	13°♊44'21	-5°04'55	minimum elong	9346 Sep 07 12:20	24°♊03'32	3°34'12
minimum elong	9345 Sep 27 20:28	13°♊55'51	5°03'19	min. Earth dist.	9346 Sep 09 02:50	23°♊07'44	0.54782 AU
morning rise	9345 Oct 06 14:58	9°♊56'29		morning rise	9346 Sep 16 06:24	19°♊47'23	
direct	9345 Oct 10 02:35	9°♊29'47		direct	9346 Sep 20 11:12	19°♊09'34	
morning max el	9345 Oct 22 04:37	15°♊12'03	21°46'52	morning max el	9346 Oct 03 19:10	25°♊36'25	23°31'36
asc. node	9345 Nov 01 11:22	28°♊30'34			9346 Oct 07 22:20	0°♊	
	9345 Nov 02 08:53	0°♊		asc. node	9346 Oct 19 08:18	17°♊11'54	
morning set	9345 Nov 12 00:39	18°♊35'35			9346 Oct 25 21:17	0°♊	

morning set	9346 Oct 27 12:11	3° \mathbb{M} 24'37			9347 Oct 02 18:50	0° $\underline{\mathfrak{A}}$	
				asc. node	9347 Oct 06 05:14	6° $\underline{\mathfrak{A}}$ 23'56	
superior conj	9346 Nov 03 10:27	18° \mathbb{M} 22'53	1°40'36	morning set	9347 Oct 11 23:47	18° $\underline{\mathfrak{A}}$ 11'40	
minimum elong	9346 Nov 03 10:15	18° \mathbb{M} 21'46	1°40'49		9347 Oct 17 09:39	0° \mathbb{M}	
max. Earth dist.	9346 Nov 06 02:49	24° \mathbb{M} 07'15	1.33245 AU				
	9346 Nov 08 22:26	0° \mathfrak{A}		superior conj	9347 Oct 18 20:08	3° \mathbb{M} 10'04	1°36'34
evening rise	9346 Nov 11 01:41	4° \mathfrak{A} 19'29		minimum elong	9347 Oct 18 18:54	3° \mathbb{M} 03'14	1°36'38
desc. node	9346 Nov 22 13:46	25° \mathfrak{A} 24'43		max. Earth dist.	9347 Oct 20 06:43	6° \mathbb{M} 19'48	1.32219 AU
	9346 Nov 25 09:17	0° \mathfrak{B}		evening rise	9347 Oct 25 23:35	18° \mathbb{M} 29'51	
evening max el	9346 Dec 15 05:39	25° \mathfrak{B} 47'57	27°22'47		9347 Oct 31 19:14	0° \mathfrak{A}	
	9346 Dec 20 07:38	0° \approx		desc. node	9347 Nov 09 10:51	15° \mathfrak{A} 06'01	
retrograde	9346 Dec 28 19:15	3° \approx 09'15			9347 Nov 19 19:14	0° \mathfrak{B}	
evening set	9347 Jan 04 16:51	0° \approx 35'20		evening max el	9347 Nov 27 15:46	8° \mathfrak{B} 44'54	27°28'21
	9347 Jan 05 10:57	30° \mathfrak{R} \mathfrak{B}		retrograde	9347 Dec 11 11:07	16° \mathfrak{B} 02'15	
min. Earth dist.	9347 Jan 08 12:35	27° \mathfrak{B} 07'20	0.64376 AU	evening set	9347 Dec 18 12:38	13° \mathfrak{B} 37'46	
inferior conj	9347 Jan 10 23:20	24° \mathfrak{B} 31'24	-1°26'56	min. Earth dist.	9347 Dec 22 05:23	10° \mathfrak{B} 38'00	0.62515 AU
minimum elong	9347 Jan 11 02:02	24° \mathfrak{B} 24'14	1°25'32	inferior conj	9347 Dec 25 02:25	7° \mathfrak{B} 54'14	-2°38'10
asc. node	9347 Jan 15 07:44	20° \mathfrak{B} 25'08		minimum elong	9347 Dec 25 07:33	7° \mathfrak{B} 42'00	2°35'54
morning rise	9347 Jan 17 12:55	19° \mathfrak{B} 06'53		morning rise	9348 Jan 01 04:44	2° \mathfrak{B} 46'42	
direct	9347 Jan 20 01:16	18° \mathfrak{B} 34'38		asc. node	9348 Jan 02 04:47	2° \mathfrak{B} 30'39	
morning max el	9347 Jan 26 11:50	21° \mathfrak{B} 56'13	17°52'32	direct	9348 Jan 03 11:19	2° \mathfrak{B} 23'12	
	9347 Feb 01 18:49	0° \approx		morning max el	9348 Jan 10 05:05	5° \mathfrak{B} 49'44	17°48'00
morning set	9347 Feb 12 13:29	17° \approx 38'49			9348 Jan 25 21:07	0° \approx	
desc. node	9347 Feb 18 13:16	27° \approx 40'16		morning set	9348 Jan 26 03:27	0° \approx 27'59	
	9347 Feb 19 23:06	0° \mathfrak{H}		desc. node	9348 Feb 05 10:11	18° \approx 20'41	
superior conj	9347 Feb 25 23:33	9° \mathfrak{H} 47'42	-0°52'42	superior conj	9348 Feb 06 16:07	20° \approx 26'52	-0°09'17
minimum elong	9347 Feb 25 17:38	9° \mathfrak{H} 23'57	0°51'45	minimum elong	9348 Feb 06 15:13	20° \approx 23'05	0°08'56
max. Earth dist.	9347 Mar 02 19:35	17° \mathfrak{H} 29'45	1.45035 AU	behind sun begin	9348 Feb 06 07:41	19° \approx 51'23	
	9347 Mar 10 19:51	0° \mathfrak{Y}		behind sun end	9348 Feb 06 22:45	20° \approx 54'42	
evening rise	9347 Mar 13 21:47	4° \mathfrak{Y} 44'37			9348 Feb 12 11:03	0° \mathfrak{H}	
greatest brilliancy	9347 Mar 28 20:00	27° \mathfrak{Y} 12'10	-0.6m	max. Earth dist.	9348 Feb 13 12:01	1° \mathfrak{H} 40'57	1.43823 AU
	9347 Mar 30 18:33	0° \mathfrak{B}		evening rise	9348 Feb 21 10:35	14° \mathfrak{H} 13'00	
evening max el	9347 Apr 10 01:06	13° \mathfrak{B} 05'04	20°09'15		9348 Mar 02 20:54	0° \mathfrak{Y}	
asc. node	9347 Apr 13 06:19	15° \mathfrak{B} 52'35		evening max el	9348 Mar 22 23:22	26° \mathfrak{Y} 46'06	21°18'00
retrograde	9347 Apr 17 19:19	17° \mathfrak{B} 34'32			9348 Mar 26 16:22	0° \mathfrak{B}	
evening set	9347 Apr 21 16:22	16° \mathfrak{B} 07'22		asc. node	9348 Mar 30 03:26	1° \mathfrak{B} 43'09	
inferior conj	9347 Apr 27 00:10	10° \mathfrak{B} 04'17	3°14'11	retrograde	9348 Mar 31 17:42	1° \mathfrak{B} 55'54	
minimum elong	9347 Apr 26 23:04	10° \mathfrak{B} 08'00	3°13'53	evening set	9348 Apr 05 00:38	0° \mathfrak{B} 13'28	
min. Earth dist.	9347 Apr 27 20:31	8° \mathfrak{B} 55'09	0.67680 AU		9348 Apr 05 07:08	30° \mathfrak{R} \mathfrak{Y}	
morning rise	9347 May 02 05:30	3° \mathfrak{B} 46'25		inferior conj	9348 Apr 10 07:41	23° \mathfrak{Y} 58'57	2°56'30
direct	9347 May 07 23:10	1° \mathfrak{B} 13'00		minimum elong	9348 Apr 10 05:50	24° \mathfrak{Y} 05'21	2°56'04
desc. node	9347 May 17 13:23	6° \mathfrak{B} 14'25		min. Earth dist.	9348 Apr 10 14:46	23° \mathfrak{Y} 34'19	0.68327 AU
morning max el	9347 May 19 13:29	8° \mathfrak{B} 10'15	24°43'08	morning rise	9348 Apr 15 10:50	17° \mathfrak{Y} 44'38	
	9347 Jun 05 15:49	0° \mathbb{I}		direct	9348 Apr 20 15:10	15° \mathfrak{Y} 28'23	
morning set	9347 Jun 24 10:56	0° \mathfrak{E} 13'12		morning max el	9348 Apr 30 23:05	21° \mathfrak{Y} 36'56	23°13'30
	9347 Jun 24 07:57	0° \mathfrak{E}		desc. node	9348 May 03 10:19	24° \mathfrak{Y} 15'05	
max. Earth dist.	9347 Jun 28 01:38	6° \mathfrak{E} 42'06	1.37252 AU		9348 May 08 04:58	0° \mathfrak{B}	
					9348 May 28 22:27	0° \mathbb{I}	
superior conj	9347 Jul 04 19:29	19° \mathfrak{E} 26'07	-0°51'12	morning set	9348 Jun 04 17:38	11° \mathbb{I} 04'09	
minimum elong	9347 Jul 04 22:43	19° \mathfrak{E} 41'54	0°50'55	max. Earth dist.	9348 Jun 08 21:40	18° \mathbb{I} 09'54	1.39509 AU
asc. node	9347 Jul 10 05:19	0° \mathfrak{O} 09'13			9348 Jun 15 12:59	0° \mathfrak{E}	
	9347 Jul 10 03:29	0° \mathfrak{O}					
evening rise	9347 Jul 13 07:33	6° \mathfrak{O} 21'33		superior conj	9348 Jun 16 13:57	1° \mathfrak{E} 54'52	-1°23'11
	9347 Jul 26 19:09	0° \mathfrak{M}		minimum elong	9348 Jun 16 19:15	2° \mathfrak{E} 19'22	1°22'44
evening max el	9347 Jul 30 03:42	3° \mathfrak{M} 52'38	19°22'50	evening rise	9348 Jun 26 02:26	20° \mathfrak{E} 00'32	
retrograde	9347 Aug 08 13:51	8° \mathfrak{M} 32'39		asc. node	9348 Jun 26 02:18	19° \mathfrak{E} 59'51	
evening set	9347 Aug 10 10:06	8° \mathfrak{M} 22'42			9348 Jul 01 09:20	0° \mathfrak{O}	
desc. node	9347 Aug 13 12:25	7° \mathfrak{M} 25'11		evening max el	9348 Jul 12 05:03	16° \mathfrak{O} 01'45	18°36'51
inferior conj	9347 Aug 19 01:44	4° \mathfrak{M} 15'11	-1°42'49	retrograde	9348 Jul 20 04:17	19° \mathfrak{O} 59'58	
minimum elong	9347 Aug 18 21:08	4° \mathfrak{M} 22'41	1°41'11	evening set	9348 Jul 22 05:25	19° \mathfrak{O} 45'08	
min. Earth dist.	9347 Aug 21 15:18	2° \mathfrak{M} 35'10	0.55738 AU	inferior conj	9348 Jul 30 02:00	15° \mathfrak{O} 19'06	0°05'44
	9347 Aug 26 09:05	30° \mathfrak{R} \mathfrak{O}		minimum elong	9348 Jul 30 02:12	15° \mathfrak{O} 18'42	0°05'25
morning rise	9347 Aug 27 05:29	29° \mathfrak{O} 39'42		transit middle	9348 Jul 30 02:12	15° \mathfrak{O} 18'42	0°05'25
direct	9347 Sep 01 05:44	28° \mathfrak{O} 42'40		transit begin	9348 Jul 29 22:47	15° \mathfrak{O} 25'12	
	9347 Sep 07 01:26	0° \mathfrak{M}		transit end	9348 Jul 30 05:37	15° \mathfrak{O} 12'12	
morning max el	9347 Sep 15 07:18	5° \mathfrak{M} 48'16	25°15'59	desc. node	9348 Jul 30 09:33	15° \mathfrak{O} 04'42	


































































































































min. Earth dist.	9348 Aug 02 08:32	12° Ω 50'50	0.57454 AU	min. Earth dist.	9349 Jul 15 08:16	24° \mathfrak{D} 10'09	0.59610 AU
morning rise	9348 Aug 06 19:28	10° Ω 06'33		desc. node	9349 Jul 17 06:39	22° \mathfrak{D} 38'27	
direct	9348 Aug 12 14:58	8° Ω 42'03		morning rise	9349 Jul 19 03:32	21° \mathfrak{D} 23'54	
morning max el	9348 Aug 26 23:08	16° Ω 15'32	26°42'56	direct	9349 Jul 25 13:22	19° \mathfrak{D} 28'55	
	9348 Sep 07 04:39	0° \mathfrak{M}		morning max el	9349 Aug 08 21:47	27° \mathfrak{D} 20'16	27°38'35
asc. node	9348 Sep 22 02:08	25° \mathfrak{M} 57'41			9349 Aug 11 10:59	0° Ω	
	9348 Sep 24 01:19	0° $\underline{\mathfrak{A}}$			9349 Aug 31 20:26	0° \mathfrak{M}	
morning set	9348 Sep 25 09:47	2° $\underline{\mathfrak{A}}$ 50'53		asc. node	9349 Sep 08 23:03	15° \mathfrak{M} 46'56	
				morning set	9349 Sep 09 16:29	17° \mathfrak{M} 17'45	
superior conj	9348 Oct 02 07:40	17° $\underline{\mathfrak{A}}$ 59'21	1°26'52		9349 Sep 15 13:28	0° $\underline{\mathfrak{A}}$	
minimum elong	9348 Oct 02 05:44	17° $\underline{\mathfrak{A}}$ 48'31	1°26'43	max. Earth dist.	9349 Sep 16 01:07	1° $\underline{\mathfrak{A}}$ 04'27	1.31580 AU
max. Earth dist.	9348 Oct 02 15:17	18° $\underline{\mathfrak{A}}$ 41'35	1.31663 AU				
	9348 Oct 07 18:57	0° \mathfrak{M}		superior conj	9349 Sep 16 19:16	2° $\underline{\mathfrak{A}}$ 45'08	1°11'53
evening rise	9348 Oct 09 04:05	2° \mathfrak{M} 56'34		minimum elong	9349 Sep 16 17:02	2° $\underline{\mathfrak{A}}$ 32'42	1°11'33
	9348 Oct 23 15:22	0° \mathfrak{X}		evening rise	9349 Sep 23 12:56	17° $\underline{\mathfrak{A}}$ 33'12	
desc. node	9348 Oct 26 07:56	4° \mathfrak{X} 11'48			9349 Sep 29 15:01	0° \mathfrak{M}	
evening max el	9348 Nov 08 20:57	21° \mathfrak{X} 00'27	27°00'46	desc. node	9349 Oct 13 05:03	22° \mathfrak{M} 28'15	
retrograde	9348 Nov 22 18:50	28° \mathfrak{X} 10'33			9349 Oct 19 09:03	0° \mathfrak{X}	
evening set	9348 Nov 29 16:55	26° \mathfrak{X} 05'50		evening max el	9349 Oct 21 18:40	2° \mathfrak{X} 25'35	25°59'36
min. Earth dist.	9348 Dec 03 11:34	23° \mathfrak{X} 25'26	0.60458 AU	retrograde	9349 Nov 04 16:34	9° \mathfrak{X} 28'24	
inferior conj	9348 Dec 06 15:10	20° \mathfrak{X} 47'51	-3°50'19	evening set	9349 Nov 11 01:02	7° \mathfrak{X} 52'50	
minimum elong	9348 Dec 06 22:22	20° \mathfrak{X} 32'48	3°47'44	min. Earth dist.	9349 Nov 15 07:27	5° \mathfrak{X} 17'43	0.58375 AU
morning rise	9348 Dec 14 06:20	16° \mathfrak{X} 00'16		inferior conj	9349 Nov 18 10:08	3° \mathfrak{X} 02'38	-4°54'22
direct	9348 Dec 16 10:24	15° \mathfrak{X} 41'53		minimum elong	9349 Nov 18 17:25	2° \mathfrak{X} 49'24	4°52'34
asc. node	9348 Dec 19 01:50	16° \mathfrak{X} 10'23			9349 Nov 23 01:24	30° \mathfrak{R} \mathfrak{M}	
morning max el	9348 Dec 23 19:07	19° \mathfrak{X} 22'14	18°02'09	morning rise	9349 Nov 26 12:10	28° \mathfrak{M} 37'33	
	9348 Dec 31 13:58	0° \mathfrak{Z}		direct	9349 Nov 28 18:16	28° \mathfrak{M} 20'57	
morning set	9349 Jan 08 10:25	14° \mathfrak{Z} 04'33			9349 Dec 04 02:10	0° \mathfrak{X}	
	9349 Jan 17 02:57	0° \approx		asc. node	9349 Dec 05 22:52	1° \mathfrak{X} 21'49	
				morning max el	9349 Dec 07 02:20	2° \mathfrak{X} 23'52	18°36'41
superior conj	9349 Jan 18 09:36	2° \approx 16'24	0°29'07	morning set	9349 Dec 23 05:12	28° \mathfrak{X} 13'19	
minimum elong	9349 Jan 18 11:52	2° \approx 26'24	0°29'01		9349 Dec 24 03:12	0° \mathfrak{Z}	
desc. node	9349 Jan 22 07:06	9° \approx 04'02					
max. Earth dist.	9349 Jan 26 00:15	15° \approx 21'02	1.42071 AU	superior conj	9350 Jan 01 00:13	15° \mathfrak{Z} 05'38	0°59'18
evening rise	9349 Jan 31 12:36	24° \approx 21'00		minimum elong	9350 Jan 01 03:28	15° \mathfrak{Z} 20'50	0°59'10
	9349 Feb 04 02:31	0° \mathfrak{H}		max. Earth dist.	9350 Jan 08 08:19	28° \mathfrak{Z} 21'20	1.39980 AU
	9349 Feb 24 19:56	0° \mathfrak{Y}		desc. node	9350 Jan 09 04:01	29° \mathfrak{Z} 46'54	
evening max el	9349 Mar 05 16:56	10° \mathfrak{Y} 29'24	22°35'24		9350 Jan 09 07:03	0° \approx	
retrograde	9349 Mar 15 14:17	16° \mathfrak{Y} 20'44		evening rise	9350 Jan 12 11:20	5° \approx 24'33	
asc. node	9349 Mar 17 00:33	16° \mathfrak{Y} 10'38			9350 Jan 28 05:48	0° \mathfrak{H}	
evening set	9349 Mar 20 08:17	14° \mathfrak{Y} 23'17		evening max el	9350 Feb 16 07:24	24° \mathfrak{H} 15'19	23°55'43
inferior conj	9349 Mar 25 16:33	8° \mathfrak{Y} 00'12	2°29'04		9350 Feb 23 23:57	0° \mathfrak{Y}	
minimum elong	9349 Mar 25 14:21	8° \mathfrak{Y} 07'51	2°28'28	retrograde	9350 Feb 27 07:43	0° \mathfrak{Y} 44'07	
min. Earth dist.	9349 Mar 25 11:14	8° \mathfrak{Y} 18'40	0.68531 AU		9350 Mar 02 09:40	30° \mathfrak{R} \mathfrak{H}	
morning rise	9349 Mar 30 20:15	1° \mathfrak{Y} 50'58		asc. node	9350 Mar 03 21:42	29° \mathfrak{H} 04'31	
	9349 Apr 03 13:15	30° \mathfrak{R} \mathfrak{H}		evening set	9350 Mar 04 13:46	28° \mathfrak{H} 32'32	
direct	9349 Apr 04 10:52	29° \mathfrak{H} 55'50		min. Earth dist.	9350 Mar 09 07:41	23° \mathfrak{H} 02'46	0.68314 AU
	9349 Apr 05 08:57	0° \mathfrak{Y}		inferior conj	9350 Mar 10 00:51	22° \mathfrak{H} 04'24	1°52'31
morning max el	9349 Apr 13 11:57	5° \mathfrak{Y} 12'07	21°46'09	minimum elong	9350 Mar 09 22:44	22° \mathfrak{H} 11'36	1°51'53
desc. node	9349 Apr 20 07:14	13° \mathfrak{Y} 06'21		morning rise	9350 Mar 15 07:44	16° \mathfrak{H} 01'33	
	9349 May 02 10:04	0° \mathfrak{B}		direct	9350 Mar 19 08:57	14° \mathfrak{H} 28'42	
morning set	9349 May 15 21:26	20° \mathfrak{B} 40'51		morning max el	9350 Mar 27 07:24	18° \mathfrak{H} 58'53	20°28'04
	9349 May 21 14:58	0° \mathfrak{H}			9350 Apr 05 07:50	0° \mathfrak{Y}	
max. Earth dist.	9349 May 21 21:53	0° \mathfrak{H} 28'42	1.41714 AU	desc. node	9350 Apr 07 04:07	2° \mathfrak{Y} 33'55	
				morning set	9350 Apr 25 01:52	29° \mathfrak{Y} 16'03	
superior conj	9349 May 29 13:29	13° \mathfrak{H} 30'57	-1°50'57		9350 Apr 25 13:13	0° \mathfrak{B}	
minimum elong	9349 May 29 19:33	13° \mathfrak{H} 57'34	1°50'41	max. Earth dist.	9350 May 04 05:24	13° \mathfrak{B} 41'53	1.43586 AU
	9349 Jun 07 17:23	0° \mathfrak{D}					
evening rise	9349 Jun 09 09:33	3° \mathfrak{D} 04'34		superior conj	9350 May 10 13:38	24° \mathfrak{B} 03'59	-2°09'03
asc. node	9349 Jun 12 23:18	9° \mathfrak{D} 37'01		minimum elong	9350 May 10 17:16	24° \mathfrak{B} 19'05	2°09'09
evening max el	9349 Jun 25 14:07	28° \mathfrak{D} 46'05	18°11'14		9350 May 14 02:34	0° \mathfrak{H}	
	9349 Jun 26 23:03	0° Ω		evening rise	9350 May 23 00:18	15° \mathfrak{H} 22'10	
retrograde	9349 Jul 02 13:39	2° Ω 17'51		asc. node	9350 May 30 20:21	28° \mathfrak{H} 54'40	
evening set	9349 Jul 04 22:21	1° Ω 54'12			9350 May 31 12:08	0° \mathfrak{D}	
	9349 Jul 08 11:44	30° \mathfrak{R} \mathfrak{D}		evening max el	9350 Jun 09 03:00	11° \mathfrak{D} 54'53	18°05'07
inferior conj	9349 Jul 11 23:52	27° \mathfrak{D} 07'19	1°30'34	retrograde	9350 Jun 15 14:22	15° \mathfrak{D} 15'54	
minimum elong	9349 Jul 12 02:28	27° \mathfrak{D} 01'33	1°29'26	evening set	9350 Jun 18 06:41	14° \mathfrak{D} 40'42	

inferior conj	9350 Jun 24 16:26	9°☿34'09	2°28'33	inferior conj	9351 Jun 07 23:34	22°♊31'37	3°03'03
minimum elong	9350 Jun 24 19:16	9°☿26'55	2°27'33	minimum elong	9351 Jun 08 01:29	22°♊26'06	3°02'27
min. Earth dist.	9350 Jun 27 16:30	6°☿31'30	0.61868 AU	min. Earth dist.	9351 Jun 10 10:14	19°♊44'44	0.63968 AU
morning rise	9350 Jul 01 05:44	3°☿30'02		morning rise	9351 Jun 14 00:11	16°♊16'27	
desc. node	9350 Jul 04 03:45	1°☿53'04		direct	9351 Jun 20 17:01	13°♊36'50	
direct	9350 Jul 07 22:37	1°☿08'15		desc. node	9351 Jun 21 00:49	13°♊37'11	
morning max el	9350 Jul 22 02:57	9°☿09'31	27°56'25	morning max el	9351 Jul 04 12:17	21°♊38'35	27°36'55
	9350 Aug 07 05:25	0°♊			9351 Jul 11 18:59	0°☿	
	9350 Aug 24 00:55	0°♊			9351 Jul 31 09:33	0°♊	
morning set	9350 Aug 24 17:55	1°♊26'33		morning set	9351 Aug 08 11:42	15°♊10'52	
asc. node	9350 Aug 26 19:58	5°♊46'03		max. Earth dist.	9351 Aug 13 08:50	25°♊08'19	1.32840 AU
max. Earth dist.	9350 Aug 30 08:17	13°♊16'54	1.31967 AU	asc. node	9351 Aug 13 16:53	25°♊50'38	
					9351 Aug 15 15:56	0°♊	
superior conj	9350 Sep 01 05:07	17°♊21'41	0°51'58	superior conj	9351 Aug 16 11:15	1°♊43'28	0°27'28
minimum elong	9350 Sep 01 03:04	17°♊10'28	0°51'30	minimum elong	9351 Aug 16 09:58	1°♊36'33	0°27'03
	9350 Sep 06 23:20	0°♊		evening rise	9351 Aug 23 11:36	16°♊51'39	
evening rise	9350 Sep 08 00:04	2°♊13'25			9351 Aug 29 22:43	0°♊	
	9350 Sep 22 21:37	0°♊		evening max el	9351 Sep 14 19:29	23°♊12'49	22°52'16
desc. node	9350 Sep 30 02:13	9°♊36'15		desc. node	9351 Sep 16 23:24	25°♊09'44	
evening max el	9350 Oct 03 08:28	13°♊02'13	24°31'55	retrograde	9351 Sep 28 01:13	29°♊49'10	
retrograde	9350 Oct 17 02:56	19°♊57'07		evening set	9351 Oct 01 19:13	29°♊18'22	
evening set	9350 Oct 22 08:57	18°♊55'53		min. Earth dist.	9351 Oct 09 03:52	25°♊58'29	0.55166 AU
min. Earth dist.	9350 Oct 27 19:28	16°♊07'27	0.56505 AU	inferior conj	9351 Oct 10 12:36	25°♊11'30	-5°32'12
inferior conj	9350 Oct 30 08:52	14°♊30'31	-5°35'02	minimum elong	9351 Oct 10 08:10	25°♊17'53	5°31'40
minimum elong	9350 Oct 30 12:08	14°♊25'19	5°34'35	morning rise	9351 Oct 18 23:02	21°♊22'39	
morning rise	9350 Nov 07 17:29	10°♊27'39		direct	9351 Oct 22 01:19	21°♊00'23	
direct	9350 Nov 10 07:08	10°♊09'47		morning max el	9351 Nov 02 06:55	26°♊17'02	20°52'26
morning max el	9350 Nov 19 23:08	14°♊44'55	19°33'21		9351 Nov 05 17:49	0°♊	
asc. node	9350 Nov 22 19:53	17°♊51'37		asc. node	9351 Nov 09 16:52	5°♊23'20	
	9350 Nov 30 17:45	0°♊		morning set	9351 Nov 21 15:53	27°♊25'38	
morning set	9350 Dec 07 08:00	12°♊43'27			9351 Nov 22 21:38	0°♊	
superior conj	9350 Dec 15 06:59	28°♊40'57	1°20'47	superior conj	9351 Nov 29 01:21	12°♊48'19	1°34'08
minimum elong	9350 Dec 15 09:50	28°♊54'55	1°20'48	minimum elong	9351 Nov 29 03:07	12°♊57'21	1°34'19
	9350 Dec 15 23:08	0°♊		max. Earth dist.	9351 Dec 03 22:52	22°♊37'49	1.35751 AU
max. Earth dist.	9350 Dec 21 14:20	10°♊42'10	1.37791 AU	evening rise	9351 Dec 07 22:27	0°♊13'51	
evening rise	9350 Dec 25 07:35	17°♊24'54			9351 Dec 07 19:29	0°♊	
desc. node	9350 Dec 27 01:00	20°♊25'59		desc. node	9351 Dec 13 22:01	10°♊56'25	
	9351 Jan 01 17:54	0°♊			9351 Dec 25 21:37	0°♊	
	9351 Jan 22 15:15	0°♊		evening max el	9352 Jan 12 09:49	21°♊50'01	26°18'19
evening max el	9351 Jan 29 20:37	8°♊03'39	25°12'21	retrograde	9352 Jan 25 05:26	29°♊05'16	
retrograde	9351 Feb 10 21:04	15°♊01'21		evening set	9352 Jan 31 11:53	26°♊33'15	
evening set	9351 Feb 16 15:33	12°♊37'43		min. Earth dist.	9352 Feb 04 15:56	22°♊12'41	0.66686 AU
asc. node	9351 Feb 18 18:52	10°♊30'45		asc. node	9352 Feb 05 16:00	20°♊59'22	
min. Earth dist.	9351 Feb 21 01:59	7°♊42'41	0.67693 AU	inferior conj	9352 Feb 06 08:23	20°♊09'05	0°13'31
inferior conj	9351 Feb 22 06:48	6°♊08'52	1°07'16	minimum elong	9352 Feb 06 08:01	20°♊10'12	0°13'35
minimum elong	9351 Feb 22 05:16	6°♊13'51	1°06'49	transit middle	9352 Feb 06 08:01	20°♊10'12	0°13'35
morning rise	9351 Feb 27 19:21	0°♊13'54		transit begin	9352 Feb 06 06:29	20°♊14'55	
	9351 Feb 28 03:59	30°♊		transit end	9352 Feb 06 09:34	20°♊05'29	
direct	9351 Mar 03 08:10	29°♊02'07		morning rise	9352 Feb 12 04:58	14°♊23'47	
	9351 Mar 06 16:21	0°♊		direct	9352 Feb 15 06:49	13°♊30'16	
morning max el	9351 Mar 10 10:52	2°♊57'54	19°23'37	morning max el	9352 Feb 21 21:24	17°♊04'11	18°34'57
greatest brilliancy	9351 Mar 23 06:07	19°♊48'14	-0.7m		9352 Mar 02 17:34	0°♊	
desc. node	9351 Mar 25 01:00	22°♊28'20		desc. node	9352 Mar 10 21:52	12°♊41'54	
	9351 Mar 30 00:05	0°♊		morning set	9352 Mar 13 18:01	17°♊10'28	
morning set	9351 Apr 04 00:56	7°♊44'03			9352 Mar 21 21:44	0°♊	
max. Earth dist.	9351 Apr 16 19:16	27°♊37'07	1.44905 AU	superior conj	9352 Mar 29 21:05	12°♊28'52	-1°52'50
	9351 Apr 18 07:24	0°♊		minimum elong	9352 Mar 29 12:11	11°♊54'02	1°52'13
superior conj	9351 Apr 20 13:36	3°♊35'19	-2°11'02	max. Earth dist.	9352 Mar 29 13:06	11°♊57'36	1.45538 AU
minimum elong	9351 Apr 20 10:44	3°♊23'54	2°11'08		9352 Apr 10 00:31	0°♊	
evening rise	9351 May 04 18:02	26°♊43'56		evening rise	9352 Apr 14 11:54	7°♊06'13	
	9351 May 06 17:06	0°♊		greatest brilliancy	9352 Apr 22 22:33	20°♊31'22	-0.8m
asc. node	9351 May 17 17:26	17°♊46'12			9352 Apr 29 03:28	0°♊	
evening max el	9351 May 23 16:24	25°♊19'55	18°17'43	asc. node	9352 May 03 14:32	6°♊02'57	
retrograde	9351 May 30 01:44	28°♊44'29		evening max el	9352 May 06 03:36	8°♊54'26	18°48'18
evening set	9351 Jun 02 01:32	27°♊55'56					

retrograde	9352 May 12 19:44	12° Π 35'22			9353 Apr 03 00:38	0° \mathcal{B}	
evening set	9352 May 16 03:15	11° Π 32'17		greatest brilliancy	9353 Apr 07 17:04	7° \mathcal{B} 03'53	-0.7m
inferior conj	9352 May 21 17:19	5° Π 51'51	3°18'43	evening max el	9353 Apr 19 10:32	22° \mathcal{B} 33'16	19°35'31
minimum elong	9352 May 21 17:59	5° Π 49'46	3°18'24	asc. node	9353 Apr 20 11:38	23° \mathcal{B} 33'46	
min. Earth dist.	9352 May 23 12:52	3° Π 36'28	0.65741 AU	retrograde	9353 Apr 26 17:10	26° \mathcal{B} 41'58	
	9352 May 26 19:53	30° \mathcal{R} \mathcal{B}		evening set	9353 Apr 30 09:06	25° \mathcal{B} 23'37	
morning rise	9352 May 27 08:03	29° \mathcal{B} 32'42		inferior conj	9353 May 05 18:24	19° \mathcal{B} 28'28	3°19'25
direct	9352 Jun 02 19:01	26° \mathcal{B} 46'54		minimum elong	9353 May 05 17:52	19° \mathcal{B} 30'12	3°19'11
desc. node	9352 Jun 06 21:50	27° \mathcal{B} 43'27		min. Earth dist.	9353 May 06 22:58	17° \mathcal{B} 53'53	0.67103 AU
	9352 Jun 10 18:01	0° Π		morning rise	9353 May 11 02:18	13° \mathcal{B} 09'35	
morning max el	9352 Jun 15 22:53	4° Π 35'41	26°45'58	direct	9353 May 17 03:10	10° \mathcal{B} 28'55	
	9352 Jul 05 06:58	0° \mathcal{B}		desc. node	9353 May 24 18:49	13° \mathcal{B} 42'35	
morning set	9352 Jul 21 18:46	28° \mathcal{B} 22'19		morning max el	9353 May 29 08:43	17° \mathcal{B} 48'41	25°32'05
	9352 Jul 22 15:12	0° Ω			9353 Jun 08 13:46	0° Π	
max. Earth dist.	9352 Jul 25 23:22	6° Ω 32'51	1.34206 AU		9353 Jun 28 07:06	0° \mathcal{B}	
				morning set	9353 Jul 04 10:57	10° \mathcal{B} 48'51	
superior conj	9352 Jul 30 11:26	15° Ω 44'24	-0°01'00	max. Earth dist.	9353 Jul 08 03:16	17° \mathcal{B} 37'40	1.36037 AU
minimum elong	9352 Jul 30 11:30	15° Ω 44'46	0°01'13				
behind sun begin	9352 Jul 30 05:46	15° Ω 14'54		superior conj	9353 Jul 14 02:51	29° \mathcal{B} 16'03	-0°32'25
behind sun end	9352 Jul 30 17:15	16° Ω 14'40		minimum elong	9353 Jul 14 04:50	29° \mathcal{B} 25'57	0°32'19
asc. node	9352 Jul 30 13:50	15° Ω 56'55			9353 Jul 14 11:38	0° Ω	
	9352 Aug 06 05:53	0° \mathcal{M}		asc. node	9353 Jul 17 10:45	5° Ω 59'51	
evening rise	9352 Aug 06 21:36	1° \mathcal{M} 22'22		evening rise	9353 Jul 22 03:48	15° Ω 38'23	
	9352 Aug 23 07:37	0° \mathcal{A}			9353 Jul 29 13:13	0° \mathcal{M}	
evening max el	9352 Aug 26 12:59	3° \mathcal{A} 34'44	21°17'30	evening max el	9353 Aug 08 19:03	14° \mathcal{M} 33'43	19°58'50
desc. node	9352 Sep 02 20:34	8° \mathcal{A} 38'14		retrograde	9353 Aug 19 04:07	19° \mathcal{M} 41'54	
retrograde	9352 Sep 07 14:06	9° \mathcal{A} 33'06		desc. node	9353 Aug 20 17:44	19° \mathcal{M} 35'22	
evening set	9352 Sep 10 01:14	9° \mathcal{A} 19'04		evening set	9353 Aug 21 01:38	19° \mathcal{M} 32'22	
inferior conj	9352 Sep 19 05:37	5° \mathcal{A} 22'32	-4°33'08	inferior conj	9353 Aug 30 01:40	15° \mathcal{M} 32'31	-2°49'48
minimum elong	9352 Sep 18 20:01	5° \mathcal{A} 36'00	4°30'43	minimum elong	9353 Aug 29 18:02	15° \mathcal{M} 44'01	2°47'11
min. Earth dist.	9352 Sep 19 12:14	5° \mathcal{A} 13'14	0.54650 AU	min. Earth dist.	9353 Aug 31 22:23	14° \mathcal{M} 25'08	0.55085 AU
morning rise	9352 Sep 27 15:27	1° \mathcal{A} 30'32		morning rise	9353 Sep 07 08:59	11° \mathcal{M} 17'32	
direct	9352 Oct 01 10:00	0° \mathcal{A} 59'47		direct	9353 Sep 11 22:11	10° \mathcal{M} 32'25	
morning max el	9352 Oct 14 02:21	7° \mathcal{A} 02'07	22°30'16	morning max el	9353 Sep 25 14:42	17° \mathcal{M} 16'33	24°16'54
asc. node	9352 Oct 26 13:49	23° \mathcal{A} 43'00			9353 Oct 05 23:08	0° \mathcal{A}	
	9352 Oct 30 01:09	0° \mathcal{M}		asc. node	9353 Oct 13 10:44	12° \mathcal{A} 38'24	
morning set	9352 Nov 05 02:38	12° \mathcal{M} 13'49		morning set	9353 Oct 20 14:23	27° \mathcal{A} 02'21	
					9353 Oct 21 23:30	0° \mathcal{M}	
superior conj	9352 Nov 12 03:46	27° \mathcal{M} 17'26	1°40'09				
minimum elong	9352 Nov 12 04:15	27° \mathcal{M} 20'03	1°40'23	superior conj	9353 Oct 27 11:25	11° \mathcal{M} 59'35	1°39'36
	9352 Nov 13 10:29	0° \mathcal{A}		minimum elong	9353 Oct 27 10:44	11° \mathcal{M} 55'52	1°39'46
max. Earth dist.	9352 Nov 15 14:33	4° \mathcal{A} 31'28	1.34046 AU	max. Earth dist.	9353 Oct 29 14:36	16° \mathcal{M} 36'55	1.32762 AU
evening rise	9352 Nov 20 04:09	13° \mathcal{A} 41'52		evening rise	9353 Nov 03 21:02	27° \mathcal{M} 38'56	
	9352 Nov 29 01:52	0° \mathcal{B}			9353 Nov 05 01:05	0° \mathcal{A}	
desc. node	9352 Nov 29 19:04	1° \mathcal{B} 13'13		desc. node	9353 Nov 16 16:08	21° \mathcal{A} 09'44	
	9352 Dec 19 19:54	0° \approx			9353 Nov 22 07:47	0° \mathcal{B}	
evening max el	9352 Dec 24 23:09	5° \approx 27'03	27°06'13	evening max el	9353 Dec 07 11:17	18° \mathcal{B} 42'57	27°29'00
retrograde	9353 Jan 07 07:57	12° \approx 48'24		retrograde	9353 Dec 21 03:42	26° \mathcal{B} 02'16	
evening set	9353 Jan 14 00:45	10° \approx 13'28		evening set	9353 Dec 28 03:37	23° \mathcal{B} 31'34	
min. Earth dist.	9353 Jan 17 23:19	6° \approx 26'35	0.65317 AU	min. Earth dist.	9353 Dec 31 21:54	20° \mathcal{B} 16'07	0.63620 AU
inferior conj	9353 Jan 20 03:22	4° \approx 00'12	-0°48'13	inferior conj	9354 Jan 03 13:08	17° \mathcal{B} 35'43	-1°56'42
minimum elong	9353 Jan 20 04:47	3° \approx 56'13	0°47'20	minimum elong	9354 Jan 03 16:51	17° \mathcal{B} 26'16	1°54'53
asc. node	9353 Jan 22 13:07	1° \approx 24'36		asc. node	9354 Jan 09 10:12	12° \mathcal{B} 42'27	
	9353 Jan 24 01:56	30° \mathcal{R} \mathcal{B}		morning rise	9354 Jan 10 08:00	12° \mathcal{B} 17'44	
morning rise	9353 Jan 26 10:11	28° \mathcal{B} 27'00		direct	9354 Jan 12 17:38	11° \mathcal{B} 49'32	
direct	9353 Jan 29 02:52	27° \mathcal{B} 48'03		morning max el	9354 Jan 19 06:14	15° \mathcal{B} 12'05	17°48'20
	9353 Feb 03 05:16	0° \approx			9354 Jan 29 16:37	0° \approx	
morning max el	9353 Feb 04 12:47	1° \approx 11'20	18°02'59	morning set	9354 Feb 04 17:41	10° \approx 18'44	
morning set	9353 Feb 22 16:19	28° \approx 05'00		desc. node	9354 Feb 12 15:37	23° \approx 46'18	
	9353 Feb 23 20:23	0° \mathcal{H}			9354 Feb 16 09:46	0° \mathcal{H}	
desc. node	9353 Feb 25 18:44	3° \mathcal{H} 09'20					
				superior conj	9354 Feb 17 07:42	1° \mathcal{H} 29'51	-0°33'59
superior conj	9353 Mar 09 05:23	21° \mathcal{H} 31'54	-1°17'21	minimum elong	9354 Feb 17 04:01	1° \mathcal{H} 14'49	0°33'17
minimum elong	9353 Mar 08 20:52	20° \mathcal{H} 58'14	1°16'16	max. Earth dist.	9354 Feb 23 03:42	10° \mathcal{H} 54'16	1.44600 AU
max. Earth dist.	9353 Mar 12 08:43	26° \mathcal{H} 28'27	1.45433 AU	evening rise	9354 Mar 04 20:30	26° \mathcal{H} 03'05	
	9353 Mar 14 14:45	0° \mathcal{Y}			9354 Mar 07 10:28	0° \mathcal{Y}	
evening rise	9353 Mar 25 08:59	16° \mathcal{Y} 42'00			9354 Mar 28 03:52	0° \mathcal{B}	

evening max el	9354 Apr 02 12:04	6°♄14'18	20°37'12	desc. node	9355 Jan 30 12:30	14°♁28'24	
asc. node	9354 Apr 07 08:46	10°♄05'49		max. Earth dist.	9355 Feb 05 18:58	24°♁55'43	1.43134 AU
retrograde	9354 Apr 10 15:47	10°♄59'52			9355 Feb 08 22:17	0°♄	
evening set	9354 Apr 14 17:01	9°♄26'01		evening rise	9355 Feb 12 13:31	5°♄45'08	
inferior conj	9354 Apr 20 00:13	3°♄17'53	3°07'55		9355 Feb 28 18:00	0°♄	
minimum elong	9354 Apr 19 22:46	3°♄22'53	3°07'35	evening max el	9355 Mar 16 08:06	19°♄55'52	21°50'07
min. Earth dist.	9354 Apr 20 14:46	2°♄27'52	0.68013 AU	asc. node	9355 Mar 25 05:55	25°♄23'03	
	9354 Apr 22 11:16	30°♄		retrograde	9355 Mar 25 13:38	25°♄23'35	
morning rise	9354 Apr 25 04:18	27°♄01'36		evening set	9355 Mar 30 01:14	23°♄34'25	
direct	9354 Apr 30 16:29	24°♄34'54		inferior conj	9355 Apr 04 08:33	17°♄15'42	2°46'00
	9354 May 10 12:44	0°♄		minimum elong	9355 Apr 04 06:30	17°♄22'49	2°45'29
desc. node	9354 May 11 15:45	1°♄06'05		min. Earth dist.	9355 Apr 04 10:10	17°♄10'03	0.68468 AU
morning max el	9354 May 11 17:59	1°♄11'41	24°05'20	morning rise	9355 Apr 09 11:37	11°♄03'31	
	9354 Jun 02 12:49	0°♄		direct	9355 Apr 14 10:02	8°♄56'14	
morning set	9354 Jun 16 07:23	22°♄18'21		morning max el	9355 Apr 24 04:42	14°♄42'17	22°35'37
max. Earth dist.	9354 Jun 20 00:41	28°♄49'58	1.38205 AU	desc. node	9355 Apr 28 12:40	19°♄30'18	
	9354 Jun 20 16:20	0°♄			9355 May 06 14:13	0°♄	
					9355 May 26 12:04	0°♄	
superior conj	9354 Jun 27 06:07	12°♄10'29	-1°04'59	morning set	9355 May 28 02:53	2°♄38'01	
minimum elong	9354 Jun 27 10:18	12°♄30'23	1°04'37	max. Earth dist.	9355 Jun 01 22:07	10°♄38'35	1.40472 AU
asc. node	9354 Jul 04 07:42	25°♄56'19					
evening rise	9354 Jul 06 03:43	29°♄33'22		superior conj	9355 Jun 09 17:03	24°♄17'35	-1°35'46
	9354 Jul 06 09:08	0°♄		minimum elong	9355 Jun 09 22:57	24°♄44'12	1°35'21
evening max el	9354 Jul 22 14:05	26°♄17'51	19°00'40		9355 Jun 12 20:02	0°♄	
	9354 Jul 27 22:47	0°♄		evening rise	9355 Jun 19 18:06	12°♄58'46	
retrograde	9354 Jul 31 08:03	0°♄38'33		asc. node	9355 Jun 21 04:43	15°♄41'54	
evening set	9354 Aug 02 05:51	0°♄26'58			9355 Jun 29 05:21	0°♄	
	9354 Aug 03 20:49	30°♄		evening max el	9355 Jul 05 19:05	8°♄42'28	18°23'28
desc. node	9354 Aug 07 14:51	28°♄09'00		retrograde	9355 Jul 13 07:01	12°♄27'57	
inferior conj	9354 Aug 10 13:40	26°♄11'45	-0°54'34	evening set	9355 Jul 15 11:06	12°♄09'53	
minimum elong	9354 Aug 10 11:20	26°♄15'48	0°53'50	inferior conj	9355 Jul 22 23:17	7°♄34'49	0°45'04
min. Earth dist.	9354 Aug 13 12:16	24°♄09'46	0.56395 AU	minimum elong	9355 Jul 23 00:49	7°♄31'41	0°44'15
morning rise	9354 Aug 18 13:41	21°♄20'34		desc. node	9355 Jul 25 11:58	5°♄31'04	
direct	9354 Aug 23 22:25	20°♄12'56		min. Earth dist.	9355 Jul 26 08:07	4°♄51'26	0.58331 AU
morning max el	9354 Sep 07 03:42	27°♄30'49	25°56'08	morning rise	9355 Jul 30 11:05	2°♄07'38	
	9354 Sep 09 14:08	0°♄		direct	9355 Aug 05 13:11	0°♄30'20	
	9354 Sep 29 07:02	0°♄		morning max el	9355 Aug 19 22:32	8°♄12'58	27°11'11
asc. node	9354 Sep 30 07:38	2°♄00'22			9355 Sep 05 10:00	0°♄	
morning set	9354 Oct 05 01:31	11°♄46'34		asc. node	9355 Sep 17 04:33	21°♄41'37	
				morning set	9355 Sep 19 10:22	26°♄21'43	
					9355 Sep 21 03:14	0°♄	
superior conj	9354 Oct 11 22:06	26°♄48'01	1°33'07				
minimum elong	9354 Oct 11 20:31	26°♄39'14	1°33'06	superior conj	9355 Sep 26 09:55	11°♄36'51	1°21'09
max. Earth dist.	9354 Oct 12 21:05	28°♄55'05	1.31930 AU	minimum elong	9355 Sep 26 07:47	11°♄25'01	1°20'55
	9354 Oct 13 08:52	0°♄		max. Earth dist.	9355 Sep 26 06:41	11°♄18'56	1.31562 AU
evening rise	9354 Oct 18 22:02	11°♄56'52		evening rise	9355 Oct 03 04:39	26°♄28'42	
	9354 Oct 28 05:15	0°♄			9355 Oct 04 20:49	0°♄	
desc. node	9354 Nov 03 13:14	10°♄37'26		desc. node	9355 Oct 21 10:21	29°♄24'52	
	9354 Nov 18 09:26	0°♄			9355 Oct 21 20:04	0°♄	
evening max el	9354 Nov 19 19:40	1°♄23'44	27°20'45	evening max el	9355 Nov 01 21:42	13°♄18'18	26°38'36
retrograde	9354 Dec 03 15:57	8°♄37'31		retrograde	9355 Nov 15 19:52	20°♄26'01	
evening set	9354 Dec 10 17:19	6°♄20'04		evening set	9355 Nov 22 13:44	18°♄32'17	
min. Earth dist.	9354 Dec 14 10:03	3°♄30'11	0.61661 AU	min. Earth dist.	9355 Nov 26 11:33	15°♄56'29	0.59561 AU
inferior conj	9354 Dec 17 10:34	0°♄47'17	-3°09'04	inferior conj	9355 Nov 29 16:12	13°♄26'02	-4°19'12
minimum elong	9354 Dec 17 16:42	0°♄33'27	3°06'33	minimum elong	9355 Nov 29 23:48	13°♄11'03	4°16'49
	9354 Dec 18 07:42	30°♄		morning rise	9355 Dec 07 12:26	8°♄48'16	
morning rise	9354 Dec 24 18:27	25°♄47'57		direct	9355 Dec 09 16:41	8°♄31'06	
direct	9354 Dec 26 23:38	25°♄26'56		asc. node	9355 Dec 14 04:20	9°♄48'06	
asc. node	9354 Dec 27 07:17	25°♄27'22		morning max el	9355 Dec 17 10:18	12°♄19'42	18°14'17
morning max el	9355 Jan 02 22:33	28°♄57'51	17°51'40		9355 Dec 29 05:32	0°♄	
	9355 Jan 03 22:24	0°♄		morning set	9356 Jan 02 04:13	7°♄22'47	
morning set	9355 Jan 18 15:37	23°♄30'23					
	9355 Jan 22 06:08	0°♄					
				superior conj	9356 Jan 11 14:22	24°♄57'49	0°42'57
superior conj	9355 Jan 29 11:10	12°♄40'04	0°07'55	minimum elong	9356 Jan 11 17:17	25°♄10'58	0°42'49
minimum elong	9355 Jan 29 11:54	12°♄43'13	0°08'02		9356 Jan 14 09:52	0°♄	
behind sun begin	9355 Jan 29 04:29	12°♄11'22		desc. node	9356 Jan 17 09:26	5°♄12'29	
behind sun end	9355 Jan 29 19:18	13°♄15'00		max. Earth dist.	9356 Jan 19 05:04	8°♄19'01	1.41209 AU

evening rise	9356 Jan 23 23:56	16° \approx 16'13		desc. node	9357 Jan 03 06:24	25° \approx 54'27	
	9356 Feb 01 17:22	0° \approx		evening rise	9357 Jan 04 08:04	27° \approx 45'01	
	9356 Feb 23 14:29	0° \approx			9357 Jan 05 15:48	0° \approx	
evening max el	9356 Feb 26 23:58	3° \approx 39'46	23°09'28		9357 Jan 25 05:38	0° \approx	
retrograde	9356 Mar 08 09:12	9° \approx 48'31		evening max el	9357 Feb 08 13:46	17° \approx 27'29	24°29'12
asc. node	9356 Mar 11 03:05	9° \approx 11'37		retrograde	9357 Feb 20 01:06	24° \approx 10'07	
evening set	9356 Mar 13 08:10	7° \approx 44'51		evening set	9357 Feb 25 12:18	21° \approx 53'20	
inferior conj	9356 Mar 18 17:26	1° \approx 18'49	2°14'39	asc. node	9357 Feb 26 00:14	21° \approx 26'47	
minimum elong	9356 Mar 18 15:12	1° \approx 26'30	2°14'00	min. Earth dist.	9357 Mar 02 02:57	16° \approx 38'04	0.68098 AU
min. Earth dist.	9356 Mar 18 06:59	1° \approx 54'54	0.68490 AU	inferior conj	9357 Mar 03 01:01	15° \approx 24'13	1°34'24
	9356 Mar 19 16:24	30° \approx		minimum elong	9357 Mar 02 23:05	15° \approx 30'41	1°33'48
morning rise	9356 Mar 23 22:10	25° \approx 12'00		morning rise	9357 Mar 08 09:59	9° \approx 24'13	
direct	9356 Mar 28 06:53	23° \approx 26'33		direct	9357 Mar 12 05:45	8° \approx 00'30	
morning max el	9356 Apr 05 20:08	28° \approx 22'31	21°11'22	morning max el	9357 Mar 19 18:55	12° \approx 14'47	19°58'41
	9356 Apr 07 09:26	0° \approx		desc. node	9357 Apr 01 06:28	28° \approx 18'57	
desc. node	9356 Apr 14 09:35	8° \approx 38'32			9357 Apr 02 10:14	0° \approx	
	9356 Apr 29 04:48	0° \approx		morning set	9357 Apr 15 18:41	20° \approx 08'26	
morning set	9356 May 06 19:31	11° \approx 44'51			9357 Apr 22 02:53	0° \approx	
max. Earth dist.	9356 May 14 00:49	23° \approx 19'10	1.42563 AU	max. Earth dist.	9357 Apr 26 10:53	6° \approx 51'07	1.44225 AU
	9356 May 18 01:40	0° \approx					
superior conj	9356 May 21 07:01	5° \approx 27'18	-2°00'13	superior conj	9357 May 01 20:41	15° \approx 33'51	-2°12'13
minimum elong	9356 May 21 12:34	5° \approx 51'04	2°00'05	minimum elong	9357 May 01 21:57	15° \approx 38'59	2°12'25
evening rise	9356 Jun 01 18:50	25° \approx 44'17			9357 May 10 13:20	0° \approx	
	9356 Jun 04 03:40	0° \approx		evening rise	9357 May 15 01:10	7° \approx 39'16	
asc. node	9356 Jun 07 01:45	5° \approx 11'35		asc. node	9357 May 24 22:49	24° \approx 19'32	
evening max el	9356 Jun 18 06:13	21° \approx 38'24	18°06'21		9357 May 28 17:35	0° \approx	
retrograde	9356 Jun 24 23:22	25° \approx 03'50		evening max el	9357 Jun 01 19:48	4° \approx 56'03	18°08'19
evening set	9356 Jun 27 11:15	24° \approx 35'40		retrograde	9357 Jun 08 05:02	8° \approx 16'35	
inferior conj	9356 Jul 04 05:36	19° \approx 40'32	1°58'20	evening set	9357 Jun 11 00:37	7° \approx 35'50	
minimum elong	9356 Jul 04 08:30	19° \approx 33'41	1°57'11	inferior conj	9357 Jun 17 04:54	2° \approx 21'45	2°45'44
min. Earth dist.	9356 Jul 07 11:32	16° \approx 37'46	0.60570 AU	minimum elong	9357 Jun 17 07:26	2° \approx 14'57	2°44'54
morning rise	9356 Jul 11 03:01	13° \approx 46'49			9357 Jun 19 09:42	30° \approx	
desc. node	9356 Jul 11 09:05	13° \approx 37'16		min. Earth dist.	9357 Jun 19 23:45	29° \approx 23'26	0.62796 AU
direct	9356 Jul 17 16:49	11° \approx 39'14		morning rise	9357 Jun 23 12:32	26° \approx 12'11	
morning max el	9356 Aug 01 00:11	19° \approx 36'51	27°50'57	desc. node	9357 Jun 28 06:10	23° \approx 15'14	
	9356 Aug 09 20:29	0° \approx		direct	9357 Jun 30 06:25	23° \approx 41'13	
	9356 Aug 28 06:35	0° \approx			9357 Jul 12 12:01	0° \approx	
morning set	9356 Sep 02 15:05	10° \approx 41'42		morning max el	9357 Jul 14 07:14	1° \approx 43'51	27°52'22
asc. node	9356 Sep 03 01:27	11° \approx 35'39			9357 Aug 04 02:54	0° \approx	
max. Earth dist.	9356 Sep 08 15:40	23° \approx 37'50	1.31675 AU	morning set	9357 Aug 17 13:34	24° \approx 41'02	
					9357 Aug 20 03:40	0° \approx	
superior conj	9356 Sep 09 20:59	26° \approx 19'34	1°04'02	asc. node	9357 Aug 20 22:22	1° \approx 37'54	
minimum elong	9356 Sep 09 18:46	26° \approx 07'18	1°03'37	max. Earth dist.	9357 Aug 22 20:19	5° \approx 41'54	1.32278 AU
	9356 Sep 11 12:48	0° \approx					
evening rise	9356 Sep 16 14:41	11° \approx 07'26		superior conj	9357 Aug 25 05:30	10° \approx 50'58	0°42'07
	9356 Sep 26 02:55	0° \approx		minimum elong	9357 Aug 25 03:42	10° \approx 41'12	0°41'39
desc. node	9356 Oct 07 07:30	17° \approx 15'14		evening rise	9357 Sep 01 02:13	25° \approx 47'47	
evening max el	9356 Oct 13 15:47	24° \approx 21'28	25°24'57		9357 Sep 03 01:53	0° \approx	
	9356 Oct 21 14:18	0° \approx			9357 Sep 20 19:59	0° \approx	
retrograde	9356 Oct 27 13:26	1° \approx 22'05		desc. node	9357 Sep 24 04:40	3° \approx 46'41	
evening set	9356 Nov 02 11:55	0° \approx 01'03		evening max el	9357 Sep 25 03:38	4° \approx 43'47	23°50'01
	9356 Nov 02 12:52	30° \approx		retrograde	9357 Oct 08 18:15	11° \approx 31'59	
min. Earth dist.	9356 Nov 07 03:57	27° \approx 22'24	0.57528 AU	evening set	9357 Oct 13 09:24	10° \approx 45'07	
inferior conj	9356 Nov 10 02:42	25° \approx 21'39	-5°15'40	min. Earth dist.	9357 Oct 19 14:05	7° \approx 45'12	0.55854 AU
minimum elong	9356 Nov 10 08:53	25° \approx 11'04	5°14'28	inferior conj	9357 Oct 21 16:49	6° \approx 28'49	-5°40'18
morning rise	9356 Nov 18 08:10	21° \approx 06'21		minimum elong	9357 Oct 21 17:02	6° \approx 28'31	5°40'08
direct	9356 Nov 20 16:32	20° \approx 49'45		morning rise	9357 Oct 30 02:38	2° \approx 32'59	
morning max el	9356 Nov 29 13:34	25° \approx 05'41	18°58'00	direct	9357 Nov 01 21:13	2° \approx 13'33	
asc. node	9356 Nov 30 01:21	25° \approx 34'45		morning max el	9357 Nov 12 04:51	7° \approx 05'43	20°04'17
	9356 Dec 03 18:11	0° \approx		asc. node	9357 Nov 16 22:20	12° \approx 32'25	
morning set	9356 Dec 16 02:50	21° \approx 41'48			9357 Nov 27 04:46	0° \approx	
	9356 Dec 20 07:49	0° \approx		morning set	9357 Nov 30 08:05	6° \approx 17'45	
superior conj	9356 Dec 24 12:28	8° \approx 08'26	1°09'26				
minimum elong	9356 Dec 24 15:40	8° \approx 23'44	1°09'21	superior conj	9357 Dec 08 00:35	21° \approx 58'13	1°27'24
max. Earth dist.	9356 Dec 31 11:22	20° \approx 59'53	1.39047 AU	minimum elong	9357 Dec 08 03:01	22° \approx 10'24	1°27'29
					9357 Dec 12 02:35	0° \approx	
				max. Earth dist.	9357 Dec 13 17:57	3° \approx 07'49	1.36897 AU

evening rise	9357 Dec 17 12:39	10°  07'07		minimum elong	9358 Nov 21 23:57	6°  22'32	1°37'45
desc. node	9357 Dec 21 03:23	16°  30'26		max. Earth dist.	9358 Nov 26 05:30	15°  02'04	1.34976 AU
	9357 Dec 29 08:09	0° 		evening rise	9358 Nov 30 10:16	23°  13'55	
	9358 Jan 20 20:36	0° 			9358 Dec 04 01:51	0° 	
evening max el	9358 Jan 22 03:06	1°  16'31	25°42'15	desc. node	9358 Dec 08 00:23	6°  56'03	
retrograde	9358 Feb 03 12:18	8°  22'25			9358 Dec 23 00:19	0° 	
evening set	9358 Feb 09 11:58	5°  54'58		evening max el	9359 Jan 04 16:30	15°  00'46	26°41'20
asc. node	9358 Feb 12 21:24	2°  23'14		retrograde	9359 Jan 17 18:05	22°  19'16	
min. Earth dist.	9358 Feb 13 19:41	1°  14'33	0.67313 AU	evening set	9359 Jan 24 05:23	19°  45'07	
	9358 Feb 14 19:12	30° 		min. Earth dist.	9359 Jan 28 06:58	15°  39'19	0.66148 AU
inferior conj	9358 Feb 15 05:22	29°  27'37	0°45'30	inferior conj	9359 Jan 30 04:25	13°  25'07	-0°11'42
minimum elong	9358 Feb 15 04:15	29°  31'09	0°45'14	minimum elong	9359 Jan 30 04:44	13°  24'11	0°11'20
morning rise	9358 Feb 20 21:01	23°  36'22		transit middle	9359 Jan 30 04:44	13°  24'11	0°11'20
direct	9358 Feb 24 05:04	22°  32'34		transit begin	9359 Jan 30 02:40	13°  30'20	
morning max el	9358 Mar 03 01:30	26°  17'17	19°00'52	transit end	9359 Jan 30 06:49	13°  18'03	
	9358 Mar 06 09:00	0° 		asc. node	9359 Jan 30 18:30	12°  43'39	
greatest brilliancy	9358 Mar 16 18:29	14°  45'22	-0.8m	morning rise	9359 Feb 05 05:06	7°  44'49	
desc. node	9358 Mar 19 03:20	18°  22'29		direct	9359 Feb 08 02:54	6°  57'52	
morning set	9358 Mar 25 23:04	28°  55'07		morning max el	9359 Feb 14 14:29	10°  25'36	18°19'22
	9358 Mar 26 15:47	0° 			9359 Feb 28 13:17	0° 	
max. Earth dist.	9358 Apr 09 03:10	21°  00'55	1.45270 AU	morning set	9359 Mar 06 04:19	8°  59'33	
				desc. node	9359 Mar 06 00:13	8°  43'06	
superior conj	9358 Apr 11 12:03	24°  44'47	-2°05'48		9359 Mar 19 10:18	0° 	
minimum elong	9358 Apr 11 06:06	24°  21'20	2°05'39				
	9358 Apr 14 19:44	0° 		superior conj	9359 Mar 21 17:32	3°  36'30	-1°39'27
evening rise	9358 Apr 26 08:49	18°  35'33		minimum elong	9359 Mar 21 07:56	2°  58'55	1°38'31
	9358 May 03 08:48	0° 		max. Earth dist.	9359 Mar 22 22:43	5°  30'43	1.45589 AU
asc. node	9358 May 11 19:55	12°  25'34		evening rise	9359 Apr 06 17:11	28°  03'43	
evening max el	9358 May 16 08:36	18°  26'08	18°28'35		9359 Apr 07 14:26	0° 	
retrograde	9358 May 22 19:38	21°  55'51		greatest brilliancy	9359 Apr 17 09:15	15°  15'07	-0.8m
evening set	9358 May 25 22:46	21°  01'02			9359 Apr 27 21:05	0° 	
inferior conj	9358 May 31 16:57	15°  29'33	3°11'42	asc. node	9359 Apr 28 17:01	0° 	
minimum elong	9358 May 31 18:22	15°  25'22	3°11'16	evening max el	9359 Apr 29 18:10	2°  03'10	19°06'18
min. Earth dist.	9358 Jun 02 21:11	12°  25'53	0.64776 AU	retrograde	9359 May 06 15:32	5°  25'44	
morning rise	9358 Jun 06 13:02	9°  21'17		evening set	9359 May 10 02:33	4°  24'50'7	
direct	9358 Jun 13 04:02	6°  28'50			9359 May 14 18:43	30° 	
desc. node	9358 Jun 15 03:14	6°  24'14'0		inferior conj	9359 May 15 14:12	28°  57'55	3°20'38
morning max el	9358 Jun 26 17:17	14°  25'52	27°18'37	minimum elong	9359 May 15 14:21	28°  57'27	3°20'23
	9358 Jul 09 08:44	0° 		min. Earth dist.	9359 May 17 03:12	26°  59'23	0.66379 AU
	9358 Jul 27 19:20	0° 		morning rise	9359 May 21 01:40	22°  38'23	
morning set	9358 Aug 01 03:08	8°  21'01		direct	9359 May 27 08:36	19°  53'52	
max. Earth dist.	9358 Aug 05 17:00	17°  22'27	1.33368 AU	desc. node	9359 Jun 02 00:15	21°  40'03	
asc. node	9358 Aug 07 19:17	21°  24'35		morning max el	9359 Jun 09 03:58	27°  32'05	26°16'44
					9359 Jun 11 11:40	0° 	
superior conj	9358 Aug 09 09:22	25°  24'29	0°15'51		9359 Jul 03 01:11	0° 	
minimum elong	9358 Aug 09 08:35	25°  24'00'18	0°15'29	morning set	9359 Jul 15 04:24	21°  25'05'51	
behind sun begin	9358 Aug 09 07:08	24°  24'52'41		max. Earth dist.	9359 Jul 19 03:10	28°  58'03	1.34939 AU
behind sun end	9358 Aug 09 10:01	25°  24'07'55			9359 Jul 19 19:54	0° 	
	9358 Aug 11 16:45	0° 					
evening rise	9358 Aug 16 13:19	10°  23'34		superior conj	9359 Jul 24 06:09	8°  53'42	-0°14'04
	9358 Aug 26 15:35	0° 		minimum elong	9359 Jul 24 06:59	8°  57'53	0°14'09
evening max el	9358 Sep 06 16:15	14°  25'42'4	22°10'27	behind sun begin	9359 Jul 24 04:07	8°  43'16	
desc. node	9358 Sep 11 01:49	18°  30'53		behind sun end	9359 Jul 24 09:50	9°  21'31	
retrograde	9358 Sep 19 11:17	21°  26'37		asc. node	9359 Jul 25 16:12	11°  24'48'53	
evening set	9358 Sep 22 14:53	20°  25'43'6		evening rise	9359 Jul 31 21:58	24°  48'56	
min. Earth dist.	9358 Sep 30 21:41	17°  25'17'11	0.54837 AU		9359 Aug 03 10:43	0° 	
inferior conj	9358 Oct 01 14:28	16°  25'33'7	-5°13'56	evening max el	9359 Aug 19 14:30	25°  29'10	20°41'34
minimum elong	9358 Oct 01 07:04	17°  25'04'00	5°12'39		9359 Aug 25 20:56	0° 	
morning rise	9358 Oct 10 00:50	13°  25'06'17		desc. node	9359 Aug 28 22:59	0° 	
direct	9358 Oct 13 10:00	12°  25'40'51		retrograde	9359 Aug 30 23:29	1°  25'07'30	
morning max el	9358 Oct 25 06:52	18°  25'16'14	21°32'17	evening set	9359 Sep 02 02:30	0° 	
asc. node	9358 Nov 03 19:17	0° 			9359 Sep 05 09:33	30° 	
	9358 Nov 03 12:44	0° 		inferior conj	9359 Sep 11 06:53	26°  29'54	-3°52'59
morning set	9358 Nov 14 17:25	21°  25'03'36		minimum elong	9359 Sep 10 21:20	27°  29'13'34	3°50'06
	9358 Nov 18 23:10	0° 		min. Earth dist.	9359 Sep 12 06:26	26°  26'07	0.54713 AU
				morning rise	9359 Sep 19 16:03	23°  29'00'32	
superior conj	9358 Nov 21 22:44	6°  29'16'09	1°37'33	direct	9359 Sep 23 18:02	22°  29'24'49	

morning max el	9359 Oct 06 22:30	28° \mathbb{M} 45'39	23°15'37	direct	9360 Sep 03 10:52	1° \mathbb{M} 56'58	
	9359 Oct 08 04:58	0° \mathbb{A}		morning max el	9360 Sep 17 10:28	8° \mathbb{M} 57'32	25°01'03
asc. node	9359 Oct 21 16:13	19° \mathbb{A} 02'16			9360 Oct 03 01:29	0° \mathbb{A}	
	9359 Oct 27 09:04	0° \mathbb{M}		asc. node	9360 Oct 07 13:07	8° \mathbb{A} 10'17	
morning set	9359 Oct 30 04:47	5° \mathbb{M} 52'47		morning set	9360 Oct 13 16:28	20° \mathbb{A} 40'23	
					9360 Oct 17 23:25	0° \mathbb{M}	
superior conj	9359 Nov 06 03:39	20° \mathbb{M} 52'00	1°40'41				
minimum elong	9359 Nov 06 03:38	20° \mathbb{M} 51'50	1°40'55	superior conj	9360 Oct 20 12:53	5° \mathbb{M} 38'15	1°37'32
max. Earth dist.	9359 Nov 09 00:43	26° \mathbb{M} 59'38	1.33435 AU	minimum elong	9360 Oct 20 11:47	5° \mathbb{M} 32'12	1°37'39
	9359 Nov 10 11:16	0° \mathbb{A}		max. Earth dist.	9360 Oct 22 03:36	9° \mathbb{M} 10'06	1.32346 AU
evening rise	9359 Nov 13 21:04	6° \mathbb{A} 55'13		evening rise	9360 Oct 27 17:47	21° \mathbb{M} 02'33	
desc. node	9359 Nov 24 21:25	27° \mathbb{A} 05'09			9360 Nov 01 05:53	0° \mathbb{A}	
	9359 Nov 26 15:43	0° \mathbb{B}		desc. node	9360 Nov 10 18:30	16° \mathbb{A} 50'45	
evening max el	9359 Dec 18 05:15	28° \mathbb{B} 29'32	27°19'20		9360 Nov 19 15:55	0° \mathbb{B}	
	9359 Dec 19 20:44	0° \mathbb{A}		evening max el	9360 Nov 29 16:00	11° \mathbb{B} 31'52	27°29'33
retrograde	9359 Dec 31 17:52	5° \mathbb{A} 51'26		retrograde	9360 Dec 13 10:50	18° \mathbb{B} 49'55	
evening set	9360 Jan 07 14:20	3° \mathbb{A} 16'55		evening set	9360 Dec 20 12:03	16° \mathbb{B} 23'35	
	9360 Jan 11 04:38	30° \mathbb{R} \mathbb{B}		min. Earth dist.	9360 Dec 24 05:07	13° \mathbb{B} 19'53	0.62809 AU
min. Earth dist.	9360 Jan 11 10:43	29° \mathbb{B} 44'09	0.64629 AU	inferior conj	9360 Dec 27 00:42	10° \mathbb{B} 36'34	-2°27'12
inferior conj	9360 Jan 13 19:47	27° \mathbb{B} 10'15	-1°16'33	minimum elong	9360 Dec 27 05:28	10° \mathbb{B} 25'01	2°25'02
minimum elong	9360 Jan 13 22:08	27° \mathbb{B} 03'55	1°15'17	morning rise	9361 Jan 03 01:04	5° \mathbb{B} 26'09	
asc. node	9360 Jan 17 15:36	23° \mathbb{B} 25'03		asc. node	9361 Jan 03 12:41	5° \mathbb{B} 16'59	
morning rise	9360 Jan 20 07:34	21° \mathbb{B} 43'29		direct	9361 Jan 05 08:18	5° \mathbb{B} 01'34	
direct	9360 Jan 22 20:56	21° \mathbb{B} 09'40		morning max el	9361 Jan 12 00:32	8° \mathbb{B} 26'56	17°47'28
morning max el	9360 Jan 29 07:09	24° \mathbb{B} 31'26	17°54'42		9361 Jan 26 06:16	0° \mathbb{A}	
	9360 Feb 02 19:41	0° \mathbb{A}		morning set	9361 Jan 28 01:36	3° \mathbb{A} 10'04	
morning set	9360 Feb 15 14:44	20° \mathbb{A} 29'42		desc. node	9361 Feb 06 17:54	19° \mathbb{A} 54'22	
desc. node	9360 Feb 20 21:03	29° \mathbb{A} 15'03					
	9360 Feb 21 07:57	0° \mathbb{H}		superior conj	9361 Feb 08 20:36	23° \mathbb{A} 27'02	-0°15'38
				minimum elong	9361 Feb 08 19:02	23° \mathbb{A} 20'29	0°15'11
superior conj	9360 Feb 29 07:55	12° \mathbb{H} 59'10	-0°59'18	behind sun begin	9361 Feb 08 16:03	23° \mathbb{A} 08'04	
minimum elong	9360 Feb 29 01:14	12° \mathbb{H} 32'29	0°58'19	behind sun end	9361 Feb 08 22:00	23° \mathbb{A} 32'53	
max. Earth dist.	9360 Mar 04 18:05	20° \mathbb{H} 00'26	1.45160 AU		9361 Feb 12 19:58	0° \mathbb{H}	
	9360 Mar 11 03:34	0° \mathbb{Y}		max. Earth dist.	9361 Feb 15 11:06	4° \mathbb{H} 15'18	1.44042 AU
evening rise	9360 Mar 16 08:23	8° \mathbb{Y} 01'32		evening rise	9361 Feb 23 20:16	17° \mathbb{H} 26'34	
	9360 Mar 30 21:43	0° \mathbb{B}			9361 Mar 04 02:48	0° \mathbb{Y}	
greatest brilliancy	9360 Mar 31 03:01	0° \mathbb{B} 19'20	-0.6m	evening max el	9361 Mar 25 21:54	29° \mathbb{Y} 24'15	21°07'12
evening max el	9360 Apr 11 22:47	15° \mathbb{B} 43'02	20°00'04		9361 Mar 26 12:18	0° \mathbb{B}	
asc. node	9360 Apr 14 14:08	18° \mathbb{B} 04'34		asc. node	9361 Apr 01 11:17	4° \mathbb{B} 06'41	
retrograde	9360 Apr 19 13:53	20° \mathbb{B} 07'00		retrograde	9361 Apr 03 12:21	4° \mathbb{B} 27'37	
evening set	9360 Apr 23 09:32	18° \mathbb{B} 42'12		evening set	9361 Apr 07 17:46	2° \mathbb{B} 47'26	
inferior conj	9360 Apr 28 17:38	12° \mathbb{B} 41'07	3°15'55		9361 Apr 10 11:01	30° \mathbb{R} \mathbb{Y}	
minimum elong	9360 Apr 28 16:41	12° \mathbb{B} 44'21	3°15'39	inferior conj	9361 Apr 13 00:47	26° \mathbb{Y} 34'37	2°59'51
min. Earth dist.	9360 Apr 29 16:07	11° \mathbb{B} 25'12	0.67543 AU	minimum elong	9361 Apr 12 23:02	26° \mathbb{Y} 40'41	2°59'26
morning rise	9360 May 03 23:33	6° \mathbb{B} 22'50		min. Earth dist.	9361 Apr 13 09:48	26° \mathbb{Y} 03'20	0.68258 AU
direct	9360 May 09 19:08	3° \mathbb{B} 47'14		morning rise	9361 Apr 18 04:05	20° \mathbb{Y} 19'45	
desc. node	9360 May 18 21:12	8° \mathbb{B} 18'36		direct	9361 Apr 23 10:31	18° \mathbb{Y} 00'32	
morning max el	9360 May 21 13:38	10° \mathbb{B} 51'02	24°56'08	morning max el	9361 May 03 22:59	24° \mathbb{Y} 16'34	23°26'56
	9360 Jun 05 19:25	0° \mathbb{I}		desc. node	9361 May 05 18:08	26° \mathbb{Y} 10'11	
	9360 Jun 24 17:33	0° \mathbb{B}			9361 May 09 01:37	0° \mathbb{B}	
morning set	9360 Jun 26 12:58	3° \mathbb{B} 10'56			9361 May 30 05:40	0° \mathbb{I}	
max. Earth dist.	9360 Jun 30 03:29	9° \mathbb{B} 42'13	1.36926 AU	morning set	9361 Jun 07 23:23	14° \mathbb{I} 12'28	
				max. Earth dist.	9361 Jun 11 23:37	21° \mathbb{I} 05'10	1.39170 AU
superior conj	9360 Jul 06 16:55	22° \mathbb{B} 11'11	-0°46'14		9361 Jun 16 23:30	0° \mathbb{B}	
minimum elong	9360 Jul 06 19:49	22° \mathbb{B} 25'25	0°46'00				
	9360 Jul 10 15:17	0° \mathbb{Q}		superior conj	9361 Jun 19 13:50	4° \mathbb{B} 47'17	-1°18'30
asc. node	9360 Jul 11 13:09	1° \mathbb{Q} 50'03		minimum elong	9361 Jun 19 18:52	5° \mathbb{B} 10'44	1°18'03
evening rise	9360 Jul 15 01:54	8° \mathbb{Q} 57'33		asc. node	9361 Jun 28 10:08	21° \mathbb{B} 42'36	
	9360 Jul 26 15:25	0° \mathbb{M}		evening rise	9361 Jun 28 22:14	22° \mathbb{B} 41'10	
evening max el	9360 Aug 01 02:23	6° \mathbb{M} 48'20	19°31'32		9361 Jul 02 17:54	0° \mathbb{Q}	
retrograde	9360 Aug 10 18:22	11° \mathbb{M} 35'23		evening max el	9361 Jul 15 02:16	18° \mathbb{Q} 51'36	18°42'23
evening set	9360 Aug 12 14:32	11° \mathbb{M} 25'44		retrograde	9361 Jul 23 05:55	22° \mathbb{Q} 55'02	
desc. node	9360 Aug 14 20:10	10° \mathbb{M} 49'55		evening set	9361 Jul 25 06:08	22° \mathbb{Q} 41'08	
inferior conj	9360 Aug 21 08:40	7° \mathbb{M} 20'39	-2°00'28	desc. node	9361 Aug 01 17:20	18° \mathbb{Q} 40'49	
minimum elong	9360 Aug 21 03:14	7° \mathbb{M} 29'20	1°58'31	inferior conj	9361 Aug 02 05:40	18° \mathbb{Q} 18'01	-0°09'25
min. Earth dist.	9360 Aug 23 18:25	5° \mathbb{M} 48'49	0.55541 AU	minimum elong	9361 Aug 02 05:17	18° \mathbb{Q} 18'44	0°09'30
morning rise	9360 Aug 29 13:29	2° \mathbb{M} 50'42		transit middle	9361 Aug 02 05:17	18° \mathbb{Q} 18'44	0°09'30

transit begin	9361 Aug 02 02:19	18° Ω 24'14		minimum elong	9362 Jul 15 02:50	29° \mathfrak{D} 54'38	1°18'23
transit end	9361 Aug 02 08:15	18° Ω 13'14			9362 Jul 15 00:22	30° \mathfrak{R} \mathfrak{D}	
min. Earth dist.	9361 Aug 05 10:40	15° Ω 56'05	0.57166 AU	min. Earth dist.	9362 Jul 18 09:14	27° \mathfrak{D} 05'38	0.59275 AU
morning rise	9361 Aug 10 00:58	13° Ω 11'00		desc. node	9362 Jul 19 14:27	26° \mathfrak{D} 07'39	
direct	9361 Aug 15 17:54	11° Ω 51'00		morning rise	9362 Jul 22 06:15	24° \mathfrak{D} 20'20	
morning max el	9361 Aug 30 01:24	19° Ω 20'31	26°31'41	direct	9362 Jul 28 14:18	22° \mathfrak{D} 29'58	
	9361 Sep 08 02:31	0° \mathfrak{M}			9362 Aug 11 15:16	0° Ω	
asc. node	9361 Sep 24 10:01	27° \mathfrak{M} 41'09		morning max el	9362 Aug 11 23:04	0° Ω 19'00	27°32'42
	9361 Sep 25 13:23	0° \mathfrak{A}			9362 Sep 02 04:32	0° \mathfrak{M}	
morning set	9361 Sep 28 02:50	5° \mathfrak{A} 21'09		asc. node	9362 Sep 11 06:56	17° \mathfrak{M} 28'23	
				morning set	9362 Sep 12 10:11	19° \mathfrak{M} 50'20	
superior conj	9361 Oct 05 00:18	20° \mathfrak{A} 27'35	1°28'41		9362 Sep 17 03:14	0° \mathfrak{A}	
minimum elong	9361 Oct 04 22:26	20° \mathfrak{A} 17'14	1°28'35	max. Earth dist.	9362 Sep 18 21:46	3° \mathfrak{A} 55'11	1.31562 AU
max. Earth dist.	9361 Oct 05 11:48	21° \mathfrak{A} 31'28	1.31721 AU				
	9361 Oct 09 08:17	0° \mathfrak{M}		superior conj	9362 Sep 19 12:01	5° \mathfrak{A} 14'18	1°14'29
evening rise	9361 Oct 11 21:29	5° \mathfrak{M} 27'28		minimum elong	9362 Sep 19 09:48	5° \mathfrak{A} 01'56	1°14'11
	9361 Oct 24 20:41	0° \mathfrak{A}		evening rise	9362 Sep 26 05:51	20° \mathfrak{A} 03'04	
desc. node	9361 Oct 28 15:38	6° \mathfrak{A} 02'54			9362 Oct 01 01:30	0° \mathfrak{M}	
evening max el	9361 Nov 11 22:14	23° \mathfrak{A} 54'53	27°07'03	desc. node	9362 Oct 15 12:48	24° \mathfrak{M} 28'13	
	9361 Nov 20 16:19	0° \mathfrak{Z}			9362 Oct 19 19:15	0° \mathfrak{A}	
retrograde	9361 Nov 25 19:43	1° \mathfrak{Z} 05'38		evening max el	9362 Oct 24 21:07	5° \mathfrak{A} 27'43	26°10'38
	9361 Nov 30 19:00	30° \mathfrak{R} \mathfrak{A}		retrograde	9362 Nov 07 19:02	12° \mathfrak{A} 31'42	
evening set	9361 Dec 02 18:57	28° \mathfrak{A} 57'26		evening set	9362 Nov 14 06:25	10° \mathfrak{A} 51'08	
min. Earth dist.	9361 Dec 06 12:56	26° \mathfrak{A} 14'55	0.60773 AU	min. Earth dist.	9362 Nov 18 10:06	8° \mathfrak{A} 16'32	0.58677 AU
inferior conj	9361 Dec 09 15:52	23° \mathfrak{A} 35'35	-3°39'38	inferior conj	9362 Nov 21 13:42	5° \mathfrak{A} 56'58	-4°45'47
minimum elong	9361 Dec 09 22:50	23° \mathfrak{A} 20'43	3°37'03	minimum elong	9362 Nov 21 21:11	5° \mathfrak{A} 43'04	4°43'47
morning rise	9361 Dec 17 05:10	18° \mathfrak{A} 44'45		morning rise	9362 Nov 29 14:21	1° \mathfrak{A} 28'38	
direct	9361 Dec 19 09:25	18° \mathfrak{A} 25'46		direct	9362 Dec 01 19:51	1° \mathfrak{A} 11'58	
asc. node	9361 Dec 21 09:45	18° \mathfrak{A} 42'40		asc. node	9362 Dec 08 06:48	3° \mathfrak{A} 41'20	
morning max el	9361 Dec 26 15:17	22° \mathfrak{A} 03'24	17°58'47	morning max el	9362 Dec 09 23:49	5° \mathfrak{A} 10'46	18°30'13
	9362 Jan 01 18:05	0° \mathfrak{Z}		morning set	9362 Dec 25 23:49	0° \mathfrak{Z} 46'29	
morning set	9362 Jan 11 06:28	16° \mathfrak{Z} 41'17			9362 Dec 25 14:09	0° \mathfrak{Z}	
	9362 Jan 18 13:25	0° \mathfrak{A}					
superior conj	9362 Jan 21 10:37	5° \mathfrak{A} 07'07	0°23'46	superior conj	9363 Jan 03 22:29	17° \mathfrak{Z} 49'00	0°55'15
minimum elong	9362 Jan 21 12:33	5° \mathfrak{A} 15'36	0°23'44	minimum elong	9363 Jan 04 01:42	18° \mathfrak{Z} 03'53	0°55'07
desc. node	9362 Jan 24 14:49	10° \mathfrak{A} 37'43			9363 Jan 10 17:03	0° \mathfrak{A}	
max. Earth dist.	9362 Jan 29 00:22	18° \mathfrak{A} 02'28	1.42361 AU	desc. node	9363 Jan 11 11:45	1° \mathfrak{A} 21'08	
evening rise	9362 Feb 03 19:46	27° \mathfrak{A} 27'49		max. Earth dist.	9363 Jan 11 09:04	1° \mathfrak{A} 09'34	1.40303 AU
	9362 Feb 05 10:16	0° \mathfrak{H}		evening rise	9363 Jan 15 15:16	8° \mathfrak{A} 23'02	
	9362 Feb 25 20:21	0° \mathfrak{Y}			9363 Jan 29 10:47	0° \mathfrak{H}	
evening max el	9362 Mar 08 16:08	13° \mathfrak{Y} 07'34	22°23'32	evening max el	9363 Feb 19 06:53	26° \mathfrak{H} 52'57	23°43'44
retrograde	9362 Mar 18 09:17	18° \mathfrak{Y} 52'39			9363 Feb 22 17:55	0° \mathfrak{Y}	
asc. node	9362 Mar 19 08:27	18° \mathfrak{Y} 48'00		retrograde	9363 Mar 02 03:18	3° \mathfrak{Y} 16'49	
evening set	9362 Mar 23 01:38	16° \mathfrak{Y} 57'16		asc. node	9363 Mar 06 05:38	1° \mathfrak{Y} 56'28	
inferior conj	9362 Mar 28 09:35	10° \mathfrak{Y} 35'17	2°33'50	evening set	9363 Mar 07 07:33	1° \mathfrak{Y} 07'08	
minimum elong	9362 Mar 28 07:25	10° \mathfrak{Y} 42'51	2°33'15		9363 Mar 08 11:58	30° \mathfrak{R} \mathfrak{H}	
min. Earth dist.	9362 Mar 28 06:03	10° \mathfrak{Y} 47'36	0.68530 AU	min. Earth dist.	9363 Mar 12 02:39	25° \mathfrak{H} 32'13	0.68375 AU
morning rise	9362 Apr 02 13:03	4° \mathfrak{Y} 25'21		inferior conj	9363 Mar 12 18:07	24° \mathfrak{H} 39'22	1°58'38
direct	9362 Apr 07 05:43	2° \mathfrak{Y} 26'59		minimum elong	9363 Mar 12 15:57	24° \mathfrak{H} 46'46	1°58'00
morning max el	9362 Apr 16 11:11	7° \mathfrak{Y} 50'39	21°58'45	morning rise	9363 Mar 18 00:22	18° \mathfrak{H} 35'32	
desc. node	9362 Apr 22 15:02	14° \mathfrak{Y} 54'54		direct	9363 Mar 22 03:29	16° \mathfrak{H} 59'31	
	9362 May 03 14:47	0° \mathfrak{B}		morning max el	9363 Mar 30 05:35	21° \mathfrak{H} 35'59	20°38'53
morning set	9362 May 19 07:15	24° \mathfrak{B} 00'14			9363 Apr 06 07:59	0° \mathfrak{Y}	
	9362 May 22 23:43	0° \mathfrak{H}		desc. node	9363 Apr 09 11:54	4° \mathfrak{Y} 17'41	
max. Earth dist.	9362 May 24 23:09	3° \mathfrak{H} 16'37	1.41403 AU		9363 Apr 26 20:27	0° \mathfrak{B}	
				morning set	9363 Apr 28 14:23	2° \mathfrak{B} 42'17	
superior conj	9362 Jun 01 16:29	16° \mathfrak{H} 31'54	-1°47'13	max. Earth dist.	9363 May 07 05:28	16° \mathfrak{B} 21'49	1.43337 AU
minimum elong	9362 Jun 01 22:36	16° \mathfrak{H} 58'55	1°46'54				
	9362 Jun 09 03:24	0° \mathfrak{D}		superior conj	9363 May 13 20:15	27° \mathfrak{B} 14'19	-2°07'12
evening rise	9362 Jun 12 07:23	5° \mathfrak{D} 51'17		minimum elong	9363 May 14 00:33	27° \mathfrak{B} 32'16	2°07'16
asc. node	9362 Jun 15 07:11	11° \mathfrak{D} 22'24			9363 May 15 11:41	0° \mathfrak{H}	
	9362 Jun 27 00:19	0° Ω		evening rise	9363 May 26 00:52	18° \mathfrak{H} 16'29	
evening max el	9362 Jun 28 10:24	1° Ω 31'09	18°13'45		9363 Jun 01 17:57	0° \mathfrak{D}	
retrograde	9362 Jul 05 12:45	5° Ω 05'58		asc. node	9363 Jun 02 04:14	0° \mathfrak{D} 43'37	
evening set	9362 Jul 07 20:16	4° Ω 43'51		evening max el	9363 Jun 11 22:54	14° \mathfrak{D} 36'47	18°04'50
inferior conj	9362 Jul 15 00:26	29° \mathfrak{D} 59'51	1°19'29	retrograde	9363 Jun 18 11:30	17° \mathfrak{D} 58'40	
				evening set	9363 Jun 21 02:39	17° \mathfrak{D} 25'24	

inferior conj	9363 Jun 27 14:30	12°☿21'42	2°21'20	inferior conj	9364 Jun 09 19:40	25°♄14'57	2°59'05
minimum elong	9363 Jun 27 17:23	12°☿14'28	2°20'17	minimum elong	9364 Jun 09 21:46	25°♄09'02	2°58'26
min. Earth dist.	9363 Jun 30 16:16	9°☿18'16	0.61530 AU	min. Earth dist.	9364 Jun 12 08:34	22°♄24'26	0.63669 AU
morning rise	9363 Jul 04 05:50	6°☿19'51		morning rise	9364 Jun 15 22:01	19°♄00'57	
desc. node	9363 Jul 06 11:33	5°☿02'24		desc. node	9364 Jun 22 08:36	16°♄23'21	
direct	9363 Jul 10 22:03	4°☿01'31		direct	9364 Jun 22 15:20	16°♄23'06	
morning max el	9363 Jul 25 03:29	12°☿02'23	27°56'17	morning max el	9364 Jul 06 12:17	24°♄25'52	27°42'03
	9363 Aug 08 08:09	0°♌			9364 Jul 11 12:55	0°☿	
	9363 Aug 25 12:39	0°♍			9364 Jul 31 18:03	0°♌	
morning set	9363 Aug 27 12:35	4°♍02'52		morning set	9364 Aug 10 07:38	17°♌51'15	
asc. node	9363 Aug 29 03:51	7°♍26'45		asc. node	9364 Aug 15 00:45	27°♌30'53	
max. Earth dist.	9363 Sep 02 05:37	16°♍10'28	1.31872 AU	max. Earth dist.	9364 Aug 15 07:12	28°♌04'54	1.32672 AU
					9364 Aug 16 04:57	0°♍	
superior conj	9363 Sep 03 22:16	19°♍53'07	0°55'19	superior conj	9364 Aug 18 05:03	4°♍17'31	0°31'30
minimum elong	9363 Sep 03 20:09	19°♍41'31	0°54'51	minimum elong	9364 Aug 18 03:36	4°♍09'45	0°31'02
	9363 Sep 08 12:30	0°♎			9364 Aug 25 04:19	19°♍22'17	
evening rise	9363 Sep 10 16:47	4°♎43'32		evening rise	9364 Aug 30 08:07	0°♎	
	9363 Sep 23 23:24	0°♏			9364 Sep 16 22:49	26°♎23'36	23°07'17
desc. node	9363 Oct 02 09:58	11°♏48'38		evening max el	9364 Sep 18 07:09	27°♎38'32	
evening max el	9363 Oct 06 11:53	16°♏10'59	24°46'11	desc. node	9364 Sep 21 07:49	0°♏	
retrograde	9363 Oct 20 07:27	23°♏07'51		retrograde	9364 Sep 30 07:29	3°♏03'42	
evening set	9363 Oct 25 18:09	22°♏01'25		evening set	9364 Oct 04 06:53	2°♏29'11	
min. Earth dist.	9363 Oct 30 23:07	19°♏16'11	0.56755 AU		9364 Oct 09 23:59	30°♏♎	
inferior conj	9363 Nov 02 15:31	17°♏32'32	-5°31'15	min. Earth dist.	9364 Oct 11 07:58	29°♎14'53	0.55320 AU
minimum elong	9363 Nov 02 19:42	17°♏25'44	5°30'38	inferior conj	9364 Oct 12 21:45	28°♎20'04	-5°36'10
morning rise	9363 Nov 10 23:31	13°♏26'43		minimum elong	9364 Oct 12 18:31	28°♎24'47	5°35'50
direct	9363 Nov 13 11:33	13°♏09'20		morning rise	9364 Oct 21 08:06	24°♎29'46	
morning max el	9363 Nov 22 22:28	17°♏39'08	19°23'27	direct	9364 Oct 24 08:12	24°♎08'22	
asc. node	9363 Nov 25 03:47	20°♏00'35		morning max el	9364 Nov 04 08:13	29°♎18'40	20°39'13
	9363 Dec 02 00:20	0°♐			9364 Nov 05 01:16	0°♏	
morning set	9363 Dec 10 01:38	15°♐14'13		asc. node	9364 Nov 11 00:44	7°♏23'45	
	9363 Dec 17 11:05	0°♑		morning set	9364 Nov 23 08:52	29°♏54'49	
superior conj	9363 Dec 18 03:10	1°♑18'41	1°18'04		9364 Nov 23 09:52	0°♐	
minimum elong	9363 Dec 18 06:08	1°♑33'08	1°18'01	superior conj	9364 Nov 30 20:00	15°♐21'43	1°32'36
max. Earth dist.	9363 Dec 24 14:56	13°♑35'05	1.38114 AU	minimum elong	9364 Nov 30 21:57	15°♐31'39	1°32'44
evening rise	9363 Dec 28 08:28	20°♑15'37		max. Earth dist.	9364 Dec 05 22:38	25°♐32'27	1.36041 AU
desc. node	9363 Dec 29 08:44	22°♑01'19			9364 Dec 08 06:37	0°♑	
	9364 Jan 03 02:10	0°♒		evening rise	9364 Dec 09 20:46	2°♑57'56	
	9364 Jan 23 12:51	0°♓		desc. node	9364 Dec 15 05:44	12°♑33'24	
evening max el	9364 Feb 01 20:08	10°♓40'57	25°01'22		9364 Dec 26 02:07	0°♒	
retrograde	9364 Feb 13 17:25	17°♓35'19		evening max el	9365 Jan 14 09:21	24°♒28'21	26°09'28
evening set	9364 Feb 19 09:59	15°♓13'19			9365 Jan 21 10:31	0°♓	
asc. node	9364 Feb 21 02:46	13°♓34'45		retrograde	9365 Jan 27 02:34	1°♓41'40	
min. Earth dist.	9364 Feb 23 21:26	10°♓13'02	0.67814 AU		9365 Feb 01 05:05	30°♒♎	
inferior conj	9364 Feb 25 00:32	8°♓44'07	1°14'41	evening set	9365 Feb 02 07:14	29°♒10'47	
minimum elong	9364 Feb 24 22:53	8°♓49'33	1°14'12	min. Earth dist.	9365 Feb 06 12:14	24°♒44'58	0.66861 AU
morning rise	9364 Mar 01 12:05	2°♓47'47		asc. node	9365 Feb 06 23:53	24°♒09'17	
direct	9364 Mar 05 02:37	1°♓33'04		inferior conj	9365 Feb 08 02:54	22°♒45'32	0°22'13
morning max el	9364 Mar 12 07:51	5°♓33'20	19°32'08	minimum elong	9365 Feb 08 02:19	22°♒47'20	0°22'12
greatest brilliancy	9364 Mar 25 00:50	22°♓10'11	-0.7m	morning rise	9365 Feb 13 22:07	16°♒58'31	
desc. node	9364 Mar 26 08:46	24°♓08'29		direct	9365 Feb 17 01:30	16°♒02'27	
	9364 Mar 30 06:17	0°♔		morning max el	9365 Feb 23 17:24	19°♒38'53	18°41'05
morning set	9364 Apr 06 12:34	11°♔06'21			9365 Mar 03 20:46	0°♓	
	9364 Apr 18 15:30	0°♕		desc. node	9365 Mar 13 05:38	14°♓19'49	
max. Earth dist.	9364 Apr 18 18:10	0°♕10'31	1.44750 AU	morning set	9365 Mar 17 01:55	20°♓21'33	
superior conj	9364 Apr 22 23:32	6°♕53'51	-2°12'00		9365 Mar 23 05:30	0°♔	
minimum elong	9364 Apr 22 21:48	6°♕46'55	2°12'09	max. Earth dist.	9365 Apr 01 11:34	14°♔28'37	1.45495 AU
evening rise	9364 May 06 21:54	29°♕46'38		superior conj	9365 Apr 02 08:38	15°♔51'06	-1°56'53
	9364 May 07 01:06	0°♖		minimum elong	9365 Apr 02 00:19	15°♔18'29	1°56'22
asc. node	9364 May 19 01:18	19°♖39'38			9365 Apr 11 08:17	0°♕	
evening max el	9364 May 25 12:24	27°♖59'50	18°14'45	evening rise	9365 Apr 17 19:21	10°♕17'45	
	9364 May 27 21:41	0°☿		greatest brilliancy	9365 Apr 25 08:03	22°♕20'39	-0.9m
retrograde	9364 May 31 21:29	1°☿22'59			9365 Apr 30 05:52	0°♖	
evening set	9364 Jun 03 20:09	0°☿36'34		asc. node	9365 May 05 22:23	8°♖02'28	
	9364 Jun 04 20:32	30°♗♖					

evening max el	9365 May 09 00:06	11° Π 33'36	18°42'39	greatest brilliancy	9366 Apr 10 11:34	9° \mathcal{B} 27'31	-0.7m
retrograde	9365 May 15 14:36	15° Π 11'07		evening max el	9366 Apr 22 07:48	25° \mathcal{B} 12'18	19°27'24
evening set	9365 May 18 21:00	14° Π 10'12		asc. node	9366 Apr 22 19:31	25° \mathcal{B} 41'15	
inferior conj	9365 May 24 12:01	8° Π 32'09	3°17'20	retrograde	9366 Apr 29 11:43	29° \mathcal{B} 16'02	
minimum elong	9365 May 24 12:54	8° Π 29'28	3°16'59	evening set	9366 May 03 02:23	27° \mathcal{B} 59'54	
min. Earth dist.	9365 May 26 09:52	6° Π 11'21	0.65507 AU	inferior conj	9366 May 08 12:12	22° \mathcal{B} 06'46	3°20'08
morning rise	9365 May 30 04:04	2° Π 13'23		minimum elong	9366 May 08 11:51	22° \mathcal{B} 07'55	3°19'53
	9365 Jun 02 18:09	30° \mathcal{R} \mathcal{B}		min. Earth dist.	9366 May 09 18:55	20° \mathcal{B} 25'54	0.66935 AU
direct	9365 Jun 05 16:16	29° \mathcal{B} 27'45		morning rise	9366 May 13 20:58	15° \mathcal{B} 47'41	
	9365 Jun 08 18:32	0° Π		direct	9366 May 19 23:30	13° \mathcal{B} 05'49	
desc. node	9365 Jun 09 05:37	0° Π 09'54		desc. node	9366 May 27 02:36	15° \mathcal{B} 54'08	
morning max el	9365 Jun 18 22:41	7° Π 19'01	26°55'11	morning max el	9366 Jun 01 08:45	20° \mathcal{B} 30'30	25°44'05
	9365 Jul 06 11:33	0° \mathcal{E}			9366 Jun 09 12:29	0° Π	
	9365 Jul 24 02:15	0° Ω			9366 Jun 29 15:29	0° \mathcal{E}	
morning set	9365 Jul 24 16:25	1° Ω 07'36		morning set	9366 Jul 07 11:05	13° \mathcal{E} 41'14	
max. Earth dist.	9365 Jul 28 23:15	9° Ω 32'39	1.33972 AU	max. Earth dist.	9366 Jul 11 04:45	20° \mathcal{E} 39'37	1.35744 AU
asc. node	9365 Aug 01 21:40	17° Ω 36'56			9366 Jul 15 23:36	0° Ω	
superior conj	9365 Aug 02 06:13	18° Ω 21'38	0°03'35	superior conj	9366 Jul 16 23:07	1° Ω 57'50	-0°27'32
minimum elong	9365 Aug 02 06:02	18° Ω 20'41	0°03'19	minimum elong	9366 Jul 17 00:47	2° Ω 06'11	0°27'29
behind sun begin	9365 Aug 02 00:27	17° Ω 51'28		asc. node	9366 Jul 19 18:37	7° Ω 40'36	
behind sun end	9365 Aug 02 11:38	18° Ω 49'58		evening rise	9366 Jul 24 21:31	18° Ω 12'33	
	9365 Aug 07 18:15	0° \mathcal{N}			9366 Jul 30 20:40	0° \mathcal{N}	
evening rise	9365 Aug 09 14:36	3° \mathcal{N} 54'06		evening max el	9366 Aug 11 18:43	17° \mathcal{N} 33'01	20°09'14
	9365 Aug 24 00:15	0° $\underline{\mathcal{A}}$		retrograde	9366 Aug 22 09:57	22° \mathcal{N} 49'03	
evening max el	9365 Aug 29 14:47	6° $\underline{\mathcal{A}}$ 41'15	21°30'49	desc. node	9366 Aug 23 01:27	22° \mathcal{N} 47'57	
desc. node	9365 Sep 05 04:18	11° $\underline{\mathcal{A}}$ 27'34		evening set	9366 Aug 24 08:27	22° \mathcal{N} 39'21	
retrograde	9365 Sep 10 20:55	12° $\underline{\mathcal{A}}$ 46'05		inferior conj	9366 Sep 02 10:02	18° \mathcal{N} 40'41	-3°07'03
evening set	9365 Sep 13 11:50	12° $\underline{\mathcal{A}}$ 30'25		minimum elong	9366 Sep 02 01:45	18° \mathcal{N} 52'59	3°04'14
inferior conj	9365 Sep 22 15:28	8° $\underline{\mathcal{A}}$ 33'16	-4°45'31	min. Earth dist.	9366 Sep 04 01:34	17° \mathcal{N} 42'03	0.54957 AU
minimum elong	9365 Sep 22 06:12	8° $\underline{\mathcal{A}}$ 46'14	4°43'22	morning rise	9366 Sep 10 17:58	14° \mathcal{N} 30'27	
min. Earth dist.	9365 Sep 22 16:00	8° $\underline{\mathcal{A}}$ 32'31	0.54669 AU	direct	9366 Sep 15 04:15	13° \mathcal{N} 48'02	
morning rise	9365 Oct 01 01:27	4° $\underline{\mathcal{A}}$ 43'07		morning max el	9366 Sep 28 17:59	20° \mathcal{N} 26'11	24°01'14
direct	9365 Oct 04 17:37	4° $\underline{\mathcal{A}}$ 13'50			9366 Oct 06 21:30	0° $\underline{\mathcal{A}}$	
morning max el	9365 Oct 17 05:05	10° $\underline{\mathcal{A}}$ 09'13	22°14'49	asc. node	9366 Oct 15 18:36	14° $\underline{\mathcal{A}}$ 27'21	
asc. node	9365 Oct 28 21:40	25° $\underline{\mathcal{A}}$ 36'42		morning set	9366 Oct 23 07:01	29° $\underline{\mathcal{A}}$ 31'19	
	9365 Oct 31 09:34	0° \mathcal{M}			9366 Oct 23 12:24	0° \mathcal{M}	
morning set	9365 Nov 07 19:17	14° \mathcal{M} 42'14		superior conj	9366 Oct 30 04:23	14° \mathcal{M} 28'37	1°40'04
superior conj	9365 Nov 14 21:21	29° \mathcal{M} 47'46	1°39'40	minimum elong	9366 Oct 30 03:52	14° \mathcal{M} 25'49	1°40'16
minimum elong	9365 Nov 14 22:02	29° \mathcal{M} 51'23	1°39'54	max. Earth dist.	9366 Nov 01 12:12	19° \mathcal{M} 29'44	1.32919 AU
	9365 Nov 14 23:40	0° \mathcal{A}		evening rise	9366 Nov 06 15:52	0° \mathcal{A} 13'51	
max. Earth dist.	9365 Nov 18 13:12	7° \mathcal{A} 25'37	1.34277 AU		9366 Nov 06 13:08	0° \mathcal{A}	
evening rise	9365 Nov 23 00:27	16° \mathcal{A} 20'28		desc. node	9366 Nov 18 23:50	22° \mathcal{A} 52'49	
	9365 Nov 30 10:40	0° \mathcal{B}			9366 Nov 23 11:12	0° \mathcal{B}	
desc. node	9365 Dec 02 02:46	2° \mathcal{B} 52'32		evening max el	9366 Dec 10 11:13	21° \mathcal{B} 27'44	27°27'27
	9365 Dec 20 13:44	0° \approx		retrograde	9366 Dec 24 02:38	28° \mathcal{B} 47'41	
evening max el	9365 Dec 27 22:49	8° \approx 07'45	27°00'33	evening set	9366 Dec 31 01:54	26° \mathcal{B} 15'40	
retrograde	9366 Jan 10 05:54	15° \approx 28'22		min. Earth dist.	9367 Jan 03 20:40	22° \mathcal{B} 55'57	0.63892 AU
evening set	9366 Jan 16 21:19	12° \approx 53'33		inferior conj	9367 Jan 06 10:22	20° \mathcal{B} 16'56	-1°45'56
min. Earth dist.	9366 Jan 20 20:41	9° \approx 01'46	0.65543 AU	minimum elong	9367 Jan 06 13:43	20° \mathcal{B} 08'17	1°44'16
inferior conj	9366 Jan 22 23:01	6° \approx 38'23	-0°38'21	asc. node	9367 Jan 11 18:05	15° \mathcal{B} 38'19	
minimum elong	9366 Jan 23 00:07	6° \approx 35'14	0°37'37	morning rise	9367 Jan 13 03:21	14° \mathcal{B} 56'34	
asc. node	9366 Jan 24 20:59	4° \approx 31'05		direct	9367 Jan 15 13:54	14° \mathcal{B} 27'00	
morning rise	9366 Jan 29 04:09	1° \approx 03'11		morning max el	9367 Jan 22 01:35	17° \mathcal{B} 48'53	17°49'26
direct	9366 Jan 31 22:08	0° \approx 22'13			9367 Jan 30 22:42	0° \approx	
morning max el	9366 Feb 07 08:12	3° \approx 46'17	18°06'42	morning set	9367 Feb 07 17:34	13° \approx 06'37	
	9366 Feb 25 04:17	0° \mathcal{H}		desc. node	9367 Feb 14 23:21	25° \approx 21'17	
morning set	9366 Feb 25 19:51	1° \mathcal{H} 03'23			9367 Feb 17 18:37	0° \mathcal{H}	
desc. node	9366 Feb 28 02:29	4° \mathcal{H} 45'31		superior conj	9367 Feb 20 14:31	4° \mathcal{H} 37'38	-0°40'39
superior conj	9366 Mar 12 15:36	24° \mathcal{H} 49'33	-1°23'29	minimum elong	9367 Feb 20 10:03	4° \mathcal{H} 19'28	0°39'51
minimum elong	9366 Mar 12 06:36	24° \mathcal{H} 14'07	1°22'25	max. Earth dist.	9367 Feb 26 02:49	13° \mathcal{H} 28'30	1.44769 AU
max. Earth dist.	9366 Mar 15 07:29	29° \mathcal{H} 00'32	1.45499 AU	evening rise	9367 Mar 08 07:06	29° \mathcal{H} 20'21	
	9366 Mar 15 22:40	0° \mathcal{Y}			9367 Mar 08 17:26	0° \mathcal{Y}	
evening rise	9366 Mar 28 19:05	19° \mathcal{Y} 59'27			9367 Mar 29 02:25	0° \mathcal{B}	
	9366 Apr 04 06:31	0° \mathcal{B}		evening max el	9367 Apr 05 10:09	8° \mathcal{B} 52'56	20°27'07

asc. node	9367 Apr 09 16:39	12°♄23'13		max. Earth dist.	9368 Feb 08 18:30	27°♁33'25	1.43387 AU
retrograde	9367 Apr 13 10:23	13°♄32'44			9368 Feb 10 06:46	0°♄	
evening set	9367 Apr 17 10:10	12°♄01'09		evening rise	9368 Feb 15 22:21	8°♄56'46	
inferior conj	9367 Apr 22 17:31	5°♄54'40	3°10'23		9368 Feb 29 22:12	0°♄	
minimum elong	9367 Apr 22 16:11	5°♄59'14	3°10'02	evening max el	9368 Mar 18 06:55	22°♄34'09	21°38'44
min. Earth dist.	9367 Apr 23 10:03	4°♄58'03	0.67910 AU	asc. node	9368 Mar 26 13:50	27°♄52'41	
morning rise	9367 Apr 27 22:00	29°♄37'49		retrograde	9368 Mar 27 08:33	27°♄55'44	
	9367 Apr 27 12:31	30°♄		evening set	9368 Mar 31 18:28	26°♄08'54	
direct	9367 May 03 12:05	27°♄08'44		inferior conj	9368 Apr 06 01:39	19°♄51'31	2°49'58
	9367 May 10 09:29	0°♄		minimum elong	9368 Apr 05 23:40	19°♄58'24	2°49'28
desc. node	9367 May 13 23:33	3°♄06'35		min. Earth dist.	9368 Apr 06 05:09	19°♄39'17	0.68427 AU
morning max el	9367 May 14 18:10	3°♄52'47	24°18'37	morning rise	9368 Apr 11 04:41	13°♄38'31	
	9367 Jun 03 18:14	0°♄		direct	9368 Apr 16 05:09	11°♄28'04	
morning set	9367 Jun 19 10:52	25°♄20'19		morning max el	9368 Apr 26 04:30	17°♄22'11	22°48'46
	9367 Jun 22 02:27	0°♄		desc. node	9368 Apr 29 20:27	21°♄22'42	
max. Earth dist.	9367 Jun 23 02:50	1°♄49'09	1.37873 AU		9368 May 06 15:36	0°♄	
					9368 May 26 20:00	0°♄	
superior conj	9367 Jun 30 04:29	14°♄58'20	-1°00'06	morning set	9368 May 30 10:26	5°♄51'38	
minimum elong	9367 Jun 30 08:19	15°♄16'49	0°59'45	max. Earth dist.	9368 Jun 03 23:44	13°♄30'37	1.40137 AU
asc. node	9367 Jul 06 15:35	27°♄38'19					
	9367 Jul 07 20:08	0°♄		superior conj	9368 Jun 11 18:12	27°♄13'37	-1°31'23
evening rise	9367 Jul 08 22:37	2°♄11'18		minimum elong	9368 Jun 11 23:55	27°♄39'41	1°30'57
evening max el	9367 Jul 25 11:57	29°♄10'23	19°07'56		9368 Jun 13 06:32	0°♄	
	9367 Jul 26 08:59	0°♄		evening rise	9368 Jun 21 14:43	15°♄42'09	
retrograde	9367 Aug 03 11:27	3°♄37'43		asc. node	9368 Jun 22 12:37	17°♄26'07	
evening set	9367 Aug 05 08:31	3°♄26'50			9368 Jun 29 09:32	0°♄	
desc. node	9367 Aug 09 22:38	1°♄40'25		evening max el	9368 Jul 07 15:50	11°♄30'20	18°27'43
	9367 Aug 12 16:00	30°♄		retrograde	9368 Jul 15 07:32	15°♄19'59	
inferior conj	9367 Aug 13 19:10	29°♄14'21	-1°11'26	evening set	9368 Jul 17 10:31	15°♄03'09	
minimum elong	9367 Aug 13 16:02	29°♄19'39	1°10'24	inferior conj	9368 Jul 25 01:37	10°♄31'19	0°31'34
min. Earth dist.	9367 Aug 16 14:55	27°♄19'49	0.56149 AU	minimum elong	9368 Jul 25 02:44	10°♄29'05	0°30'53
morning rise	9367 Aug 21 20:34	24°♄28'41		desc. node	9368 Jul 26 19:47	9°♄07'00	
direct	9367 Aug 27 02:19	23°♄24'58		min. Earth dist.	9368 Jul 28 09:57	7°♄52'42	0.58018 AU
	9367 Sep 09 14:02	0°♄		morning rise	9368 Aug 01 15:26	5°♄08'59	
morning max el	9367 Sep 10 06:36	0°♄38'48	25°42'40	direct	9368 Aug 07 15:20	3°♄36'08	
	9367 Sep 30 16:36	0°♄		morning max el	9368 Aug 22 00:27	11°♄15'56	27°01'59
asc. node	9367 Oct 02 15:31	3°♄45'39			9368 Sep 05 13:43	0°♄	
morning set	9367 Oct 07 18:21	14°♄16'23		asc. node	9368 Sep 18 12:26	23°♄24'14	
				morning set	9368 Sep 21 03:40	28°♄53'00	
superior conj	9367 Oct 14 14:46	29°♄16'28	1°34'27		9368 Sep 21 16:16	0°♄	
minimum elong	9367 Oct 14 13:18	29°♄08'21	1°34'29				
	9367 Oct 14 22:39	0°♄		superior conj	9368 Sep 28 02:33	14°♄05'32	1°23'18
max. Earth dist.	9367 Oct 15 17:48	1°♄45'36	1.32015 AU	minimum elong	9368 Sep 28 00:29	13°♄54'01	1°23'06
evening rise	9367 Oct 21 15:50	14°♄28'53		max. Earth dist.	9368 Sep 28 03:05	14°♄08'32	1.31587 AU
	9367 Oct 29 14:07	0°♄		evening rise	9368 Oct 04 21:47	28°♄58'56	
desc. node	9367 Nov 05 20:57	12°♄25'31			9368 Oct 05 09:20	0°♄	
	9367 Nov 18 18:18	0°♄			9368 Oct 21 20:46	0°♄	
evening max el	9367 Nov 22 20:13	4°♄14'07	27°24'10	desc. node	9368 Oct 22 18:06	1°♄19'38	
retrograde	9367 Dec 06 16:14	11°♄29'21		evening max el	9368 Nov 03 23:23	16°♄15'42	26°47'03
evening set	9367 Dec 13 17:51	9°♄09'09		retrograde	9368 Nov 17 21:35	23°♄24'26	
min. Earth dist.	9367 Dec 17 10:25	6°♄16'07	0.61963 AU	evening set	9368 Nov 24 17:06	21°♄26'38	
inferior conj	9367 Dec 20 09:51	3°♄32'29	-2°58'03	min. Earth dist.	9368 Nov 28 13:34	18°♄49'32	0.59872 AU
minimum elong	9367 Dec 20 15:39	3°♄19'11	2°55'36	inferior conj	9368 Dec 01 18:01	16°♄16'12	-4°09'12
	9367 Dec 24 16:49	30°♄		minimum elong	9368 Dec 02 01:32	16°♄01'04	4°06'42
morning rise	9367 Dec 27 15:49	28°♄30'20		morning rise	9368 Dec 09 12:33	11°♄34'58	
direct	9367 Dec 29 21:25	28°♄08'31		direct	9368 Dec 11 16:34	11°♄17'30	
asc. node	9367 Dec 29 15:11	28°♄08'49		asc. node	9368 Dec 15 12:13	12°♄14'35	
	9368 Jan 03 21:01	0°♄		morning max el	9368 Dec 19 06:58	15°♄03'07	18°09'38
morning max el	9368 Jan 05 18:21	1°♄37'40	17°50'00		9368 Dec 29 14:02	0°♄	
morning set	9368 Jan 21 12:51	26°♄10'41		morning set	9369 Jan 03 23:34	9°♄57'29	
	9368 Jan 23 16:03	0°♄					
superior conj	9368 Feb 01 14:13	15°♄37'06	0°01'53	superior conj	9369 Jan 13 14:07	27°♄44'58	0°38'09
minimum elong	9368 Feb 01 14:25	15°♄37'54	0°02'07	minimum elong	9369 Jan 13 16:50	27°♄57'10	0°38'02
behind sun begin	9368 Feb 01 05:48	15°♄01'12			9369 Jan 14 20:19	0°♄	
behind sun end	9368 Feb 01 23:01	16°♄14'31		desc. node	9369 Jan 18 17:09	6°♄46'20	
desc. node	9368 Feb 01 20:15	16°♄02'45		max. Earth dist.	9369 Jan 21 05:14	11°♄02'08	1.41516 AU
				evening rise	9369 Jan 26 05:43	19°♄19'22	

	9369 Feb 02 00:17	0°♄		evening rise	9370 Jan 07 10:36	0°♄39'32	
	9369 Feb 23 08:50	0°♄			9370 Jan 07 01:19	0°♄	
evening max el	9369 Feb 28 23:21	6°♄17'41	22°57'33		9370 Jan 26 08:38	0°♄	
retrograde	9369 Mar 11 04:30	12°♄20'33		evening max el	9370 Feb 11 13:23	20°♄05'08	24°17'36
asc. node	9369 Mar 13 11:00	11°♄55'11		retrograde	9370 Feb 22 20:56	26°♄42'59	
evening set	9369 Mar 16 01:42	10°♄19'04		evening set	9370 Feb 28 06:19	24°♄28'03	
inferior conj	9369 Mar 21 10:34	3°♄53'59	2°20'00	asc. node	9370 Feb 28 08:07	24°♄24'09	
minimum elong	9369 Mar 21 08:21	4°♄01'41	2°19'22	min. Earth dist.	9370 Mar 04 22:06	19°♄07'41	0.68183 AU
min. Earth dist.	9369 Mar 21 01:56	4°♄23'55	0.68513 AU	inferior conj	9370 Mar 05 18:26	17°♄59'13	1°41'04
	9369 Mar 24 09:53	30°♄		minimum elong	9370 Mar 05 16:26	18°♄06'00	1°40'29
morning rise	9369 Mar 26 14:53	27°♄46'12		morning rise	9370 Mar 11 02:37	11°♄58'10	
direct	9369 Mar 31 01:39	25°♄57'18		direct	9370 Mar 15 00:19	10°♄31'13	
	9369 Apr 07 17:54	0°♄		morning max el	9370 Mar 22 16:31	14°♄50'42	20°08'39
morning max el	9369 Apr 08 18:57	1°♄00'20	21°23'15	desc. node	9370 Apr 03 14:12	0°♄00'52	
desc. node	9369 Apr 16 17:21	10°♄24'52			9370 Apr 03 13:58	0°♄	
	9369 Apr 30 10:55	0°♄		morning set	9370 Apr 19 07:24	23°♄34'33	
morning set	9369 May 10 06:49	15°♄08'09			9370 Apr 23 10:42	0°♄	
max. Earth dist.	9369 May 17 01:20	26°♄02'41	1.42274 AU	max. Earth dist.	9370 Apr 29 10:34	9°♄28'27	1.44018 AU
	9369 May 19 10:41	0°♄					
superior conj	9369 May 24 11:34	8°♄32'28	-1°57'08	superior conj	9370 May 05 04:55	18°♄48'15	-2°11'28
minimum elong	9369 May 24 17:24	8°♄57'35	1°56'59	minimum elong	9370 May 05 07:06	18°♄57'14	2°11'38
evening rise	9369 Jun 04 17:46	28°♄34'03			9370 May 11 22:14	0°♄	
	9369 Jun 05 12:43	0°♄		evening rise	9370 May 18 03:07	10°♄36'59	
asc. node	9369 Jun 09 09:40	6°♄58'29		asc. node	9370 May 27 06:44	26°♄09'55	
evening max el	9369 Jun 21 02:21	24°♄22'19	18°07'40		9370 May 29 17:23	0°♄	
retrograde	9369 Jun 27 21:28	27°♄49'33		evening max el	9370 Jun 04 15:44	7°♄36'50	18°06'47
evening set	9369 Jun 30 08:15	27°♄23'02		retrograde	9370 Jun 11 01:28	10°♄57'09	
inferior conj	9369 Jul 07 05:03	22°♄30'49	1°48'55	evening set	9370 Jun 13 19:55	10°♄18'21	
minimum elong	9369 Jul 07 07:52	22°♄24'16	1°47'45	inferior conj	9370 Jun 20 02:02	5°♄06'48	2°39'59
min. Earth dist.	9369 Jul 10 12:03	19°♄29'31	0.60236 AU	minimum elong	9370 Jun 20 04:41	4°♄59'47	2°39'06
desc. node	9369 Jul 13 16:53	16°♄59'28		min. Earth dist.	9370 Jun 22 22:47	2°♄06'38	0.62478 AU
morning rise	9369 Jul 14 04:39	16°♄40'31			9370 Jun 25 04:51	30°♄	
direct	9369 Jul 20 17:16	14°♄37'10		morning rise	9370 Jun 26 11:37	28°♄59'02	
morning max el	9369 Aug 04 01:00	22°♄32'43	27°47'23	desc. node	9370 Jun 30 13:57	26°♄53'20	
	9369 Aug 10 15:14	0°♄		direct	9370 Jul 03 05:19	26°♄31'06	
	9369 Aug 29 16:41	0°♄			9370 Jul 12 01:46	0°♄	
morning set	9369 Sep 05 09:06	13°♄15'15		morning max el	9370 Jul 17 07:23	4°♄33'12	27°54'31
asc. node	9369 Sep 05 09:20	13°♄16'29			9370 Aug 05 08:50	0°♄	
max. Earth dist.	9369 Sep 11 12:23	26°♄28'35	1.31634 AU	morning set	9370 Aug 20 08:38	27°♄17'45	
					9370 Aug 21 16:20	0°♄	
superior conj	9369 Sep 12 13:51	28°♄49'20	1°06'58	asc. node	9370 Aug 23 06:15	3°♄17'35	
minimum elong	9369 Sep 12 11:36	28°♄36'56	1°06'34	max. Earth dist.	9370 Aug 25 18:00	8°♄35'47	1.32160 AU
	9369 Sep 13 02:36	0°♄					
evening rise	9369 Sep 19 07:27	13°♄36'53		superior conj	9370 Aug 27 22:50	13°♄22'23	0°45'45
	9369 Sep 27 11:04	0°♄		minimum elong	9370 Aug 27 20:56	13°♄12'02	0°45'16
desc. node	9369 Oct 09 15:16	19°♄19'31		evening rise	9370 Sep 03 18:51	28°♄17'09	
evening max el	9369 Oct 16 18:44	27°♄26'14	25°37'33		9370 Sep 04 14:08	0°♄	
	9369 Oct 19 17:50	0°♄			9370 Sep 21 12:10	0°♄	
retrograde	9369 Oct 30 16:35	4°♄27'34		desc. node	9370 Sep 26 12:26	6°♄04'25	
evening set	9369 Nov 05 18:47	3°♄01'29		evening max el	9370 Sep 28 07:09	7°♄52'55	24°04'48
min. Earth dist.	9369 Nov 10 07:10	0°♄24'23	0.57815 AU	retrograde	9370 Oct 11 23:15	14°♄43'32	
	9369 Nov 10 21:29	30°♄		evening set	9370 Oct 16 19:48	13°♄51'48	
inferior conj	9369 Nov 13 07:30	28°♄18'25	-5°08'46	min. Earth dist.	9370 Oct 22 17:46	10°♄56'17	0.56069 AU
minimum elong	9369 Nov 13 14:10	28°♄06'45	5°07'19	inferior conj	9370 Oct 25 00:33	9°♄32'34	-5°39'29
morning rise	9369 Nov 21 11:51	23°♄59'39		minimum elong	9370 Oct 25 01:54	9°♄30'29	5°39'16
direct	9369 Nov 23 19:18	23°♄43'08		morning rise	9370 Nov 02 10:02	5°♄34'29	
asc. node	9369 Dec 02 09:12	27°♄48'35		direct	9370 Nov 05 02:51	5°♄15'37	
morning max el	9369 Dec 02 11:39	27°♄54'28	18°50'07	morning max el	9370 Nov 15 04:52	10°♄01'39	19°53'02
	9369 Dec 04 10:46	0°♄		asc. node	9370 Nov 19 06:11	14°♄36'21	
morning set	9369 Dec 18 20:56	24°♄13'07			9370 Nov 28 14:55	0°♄	
	9369 Dec 21 19:37	0°♄		morning set	9370 Dec 03 01:20	8°♄46'55	
superior conj	9369 Dec 27 09:41	10°♄48'17	1°05'59	superior conj	9370 Dec 10 19:58	24°♄32'53	1°25'12
minimum elong	9369 Dec 27 12:56	11°♄03'39	1°05'51	minimum elong	9370 Dec 10 22:34	24°♄45'46	1°25'15
max. Earth dist.	9370 Jan 03 12:04	23°♄49'40	1.39372 AU		9370 Dec 13 14:31	0°♄	
desc. node	9370 Jan 05 14:08	27°♄28'47		max. Earth dist.	9370 Dec 16 18:25	6°♄01'52	1.37204 AU
				evening rise	9370 Dec 20 12:17	12°♄53'48	

desc. node	9370 Dec 23 11:06	18° ☿ 05'45		9371 Dec 05 12:24	0° ☿	
	9370 Dec 30 15:18	0° ☿		desc. node	9371 Dec 10 08:08	8° ☿ 33'13
	9371 Jan 21 09:49	0° ☿			9371 Dec 24 02:05	0° ☿
evening max el	9371 Jan 25 02:38	3° ☿ 53'48	25°32'03	evening max el	9372 Jan 07 15:54	17° ☿ 38'29 26°33'39
retrograde	9371 Feb 06 08:49	10° ☿ 56'56		retrograde	9372 Jan 20 15:31	24° ☿ 56'11
evening set	9371 Feb 12 06:43	8° ☿ 30'42		evening set	9372 Jan 27 01:11	22° ☿ 22'35
asc. node	9371 Feb 15 05:14	5° ☿ 30'09		min. Earth dist.	9372 Jan 31 03:35	18° ☿ 11'42 0.66346 AU
min. Earth dist.	9371 Feb 16 15:21	3° ☿ 45'16	0.67455 AU	inferior conj	9372 Feb 01 23:19	16° ☿ 00'59 -0°02'30
inferior conj	9371 Feb 17 23:21	2° ☿ 02'48	0°53'28	minimum elong	9372 Feb 01 23:22	16° ☿ 00'48 0°02'15
minimum elong	9371 Feb 17 22:04	2° ☿ 06'53	0°53'09	transit middle	9372 Feb 01 23:22	16° ☿ 00'48 0°02'15
	9371 Feb 19 14:31	30° ☿		transit begin	9372 Feb 01 20:29	16° ☿ 09'26
morning rise	9371 Feb 23 13:51	26° ☿ 10'15		transit end	9372 Feb 02 02:15	15° ☿ 52'10
direct	9371 Feb 26 23:35	25° ☿ 03'42		asc. node	9372 Feb 02 02:20	15° ☿ 51'55
morning max el	9371 Mar 05 22:01	28° ☿ 51'55	19°08'31	morning rise	9372 Feb 07 22:31	10° ☿ 18'57
	9371 Mar 07 00:22	0° ☿		direct	9372 Feb 10 21:41	9° ☿ 29'48
greatest brilliancy	9371 Mar 19 04:23	16° ☿ 33'57	-0.7m	morning max el	9372 Feb 17 10:10	12° ☿ 59'27 18°24'28
desc. node	9371 Mar 21 11:03	20° ☿ 01'04			9372 Feb 29 19:36	0° ☿
	9371 Mar 27 22:56	0° ☿		desc. node	9372 Mar 07 07:55	10° ☿ 19'02
morning set	9371 Mar 29 09:27	2° ☿ 13'24		morning set	9372 Mar 08 10:14	12° ☿ 03'45
max. Earth dist.	9371 Apr 12 02:14	23° ☿ 34'11	1.45160 AU		9372 Mar 19 18:28	0° ☿
superior conj	9371 Apr 14 23:03	28° ☿ 05'35	-2°08'07	superior conj	9372 Mar 24 04:48	6° ☿ 56'32 -1°44'32
minimum elong	9371 Apr 14 18:09	27° ☿ 46'13	2°08'03	minimum elong	9372 Mar 23 19:17	6° ☿ 19'20 1°43'43
	9371 Apr 16 03:56	0° ☿		max. Earth dist.	9372 Mar 24 21:09	8° ☿ 00'29 1.45587 AU
evening rise	9371 Apr 29 14:19	21° ☿ 42'11			9372 Apr 07 21:54	0° ☿
	9371 May 04 15:30	0° ☿		evening rise	9372 Apr 09 01:53	1° ☿ 50'10
asc. node	9371 May 14 03:48	14° ☿ 52'53		greatest brilliancy	9372 Apr 19 00:06	17° ☿ 24'52 -0.8m
evening max el	9371 May 19 04:46	21° ☿ 05'09	18°24'24		9372 Apr 27 15:05	0° ☿
retrograde	9371 May 25 15:00	24° ☿ 32'48		asc. node	9372 Apr 30 00:53	2° ☿ 58'23
evening set	9371 May 28 16:59	23° ☿ 40'11		evening max el	9372 May 01 14:54	4° ☿ 41'08 18°59'39
inferior conj	9371 Jun 03 12:26	18° ☿ 11'06	3°08'56	retrograde	9372 May 08 10:20	8° ☿ 28'52
minimum elong	9371 Jun 03 14:02	18° ☿ 06'24	3°08'26	evening set	9372 May 11 20:05	7° ☿ 21'35
min. Earth dist.	9371 Jun 05 18:54	15° ☿ 31'54	0.64500 AU	inferior conj	9372 May 17 08:31	1° ☿ 36'40 3°20'13
morning rise	9371 Jun 09 10:03	11° ☿ 54'23		minimum elong	9372 May 17 08:50	1° ☿ 35'37 3°19'56
direct	9371 Jun 16 01:45	9° ☿ 12'09			9372 May 18 14:53	30° ☿
desc. node	9371 Jun 17 10:58	9° ☿ 18'30		min. Earth dist.	9372 May 18 23:47	29° ☿ 32'02 0.66164 AU
morning max el	9371 Jun 29 17:18	17° ☿ 11'05	27°25'41	morning rise	9372 May 22 21:03	25° ☿ 17'06
	9371 Jul 10 09:04	0° ☿		direct	9372 May 29 05:26	22° ☿ 31'55
	9371 Jul 29 05:16	0° ☿		desc. node	9372 Jun 03 07:58	23° ☿ 58'45
morning set	9371 Aug 03 23:45	10° ☿ 53'42			9372 Jun 10 22:18	0° ☿
max. Earth dist.	9371 Aug 08 16:11	20° ☿ 20'42	1.33170 AU	morning max el	9372 Jun 11 04:00	0° ☿ 14'21 26°27'22
asc. node	9371 Aug 10 03:10	23° ☿ 23'10			9372 Jul 03 07:55	0° ☿
superior conj	9371 Aug 12 03:32	27° ☿ 39'02	0°20'06	morning set	9372 Jul 17 03:06	23° ☿ 53'44
minimum elong	9371 Aug 12 02:33	27° ☿ 33'49	0°19'42		9372 Jul 20 07:39	0° ☿
	9371 Aug 13 05:54	0° ☿		max. Earth dist.	9372 Jul 21 03:50	1° ☿ 38'48 1.34671 AU
evening rise	9371 Aug 19 06:08	12° ☿ 54'05		superior conj	9372 Jul 26 01:33	11° ☿ 32'11 -0°09'21
	9371 Aug 27 21:19	0° ☿		minimum elong	9372 Jul 26 02:06	11° ☿ 34'57 0°09'29
evening max el	9371 Sep 09 19:00	18° ☿ 03'04	22°24'57	behind sun begin	9372 Jul 25 21:18	11° ☿ 10'16
desc. node	9371 Sep 13 09:35	21° ☿ 07'10		behind sun end	9372 Jul 26 06:53	11° ☿ 59'40
retrograde	9371 Sep 22 18:06	24° ☿ 30'45		asc. node	9372 Jul 27 00:06	13° ☿ 28'42
evening set	9371 Sep 26 02:37	24° ☿ 05'54		evening rise	9372 Aug 02 15:17	27° ☿ 21'10
min. Earth dist.	9371 Oct 04 01:34	20° ☿ 34'56	0.54934 AU		9372 Aug 03 22:00	0° ☿
inferior conj	9371 Oct 05 00:11	20° ☿ 02'59	-5°21'41	evening max el	9372 Aug 21 15:26	28° ☿ 32'26 20°53'48
minimum elong	9371 Oct 04 17:45	20° ☿ 12'06	5°20'43		9372 Aug 23 05:21	0° ☿
morning rise	9371 Oct 13 10:38	16° ☿ 15'36		desc. node	9372 Aug 30 06:46	3° ☿ 55'47
direct	9371 Oct 16 17:18	15° ☿ 51'23		retrograde	9372 Sep 02 06:21	4° ☿ 18'08
morning max el	9371 Oct 28 08:54	21° ☿ 20'00	21°17'56	evening set	9372 Sep 04 11:46	4° ☿ 06'18
	9371 Nov 04 13:32	0° ☿		inferior conj	9372 Sep 13 16:29	0° ☿ 10'01 -4°08'08
asc. node	9371 Nov 06 03:08	2° ☿ 22'38		minimum elong	9372 Sep 13 06:46	0° ☿ 23'50 4°05'21
morning set	9371 Nov 17 10:12	23° ☿ 31'46			9372 Sep 13 23:31	30° ☿
	9371 Nov 20 12:13	0° ☿		min. Earth dist.	9372 Sep 14 10:12	29° ☿ 44'49 0.54669 AU
superior conj	9371 Nov 24 16:52	8° ☿ 47'27	1°36'27	morning rise	9372 Sep 22 01:54	26° ☿ 13'36
minimum elong	9371 Nov 24 18:17	8° ☿ 54'48	1°36'40	direct	9372 Sep 26 01:11	25° ☿ 39'47
max. Earth dist.	9371 Nov 29 04:51	17° ☿ 56'18	1.35241 AU		9372 Oct 06 20:42	0° ☿
evening rise	9371 Dec 03 07:37	25° ☿ 54'33		morning max el	9372 Oct 09 01:46	1° ☿ 54'23 22°59'38
				asc. node	9372 Oct 23 00:05	20° ☿ 52'57

	9372 Oct 27 20:16	0°♍		asc. node	9373 Oct 09 21:02	9°♊56'34	
morning set	9372 Oct 31 21:24	8°♍20'32		morning set	9373 Oct 16 09:10	23°♊08'26	
					9373 Oct 19 13:12	0°♍	
superior conj	9372 Nov 07 20:59	23°♍21'04	1°40'36	superior conj	9373 Oct 23 05:44	8°♍05'56	1°38'23
minimum elong	9372 Nov 07 21:08	23°♍21'53	1°40'51	minimum elong	9373 Oct 23 04:46	8°♍00'41	1°38'32
max. Earth dist.	9372 Nov 10 22:45	29°♍51'44	1.33640 AU	max. Earth dist.	9373 Oct 25 00:42	12°♍00'17	1.32481 AU
	9372 Nov 11 00:20	0°♊		evening rise	9373 Oct 30 12:10	23°♍35'11	
evening rise	9372 Nov 15 16:43	9°♊31'18			9373 Nov 02 17:10	0°♊	
desc. node	9372 Nov 26 05:12	28°♊45'06		desc. node	9373 Nov 13 02:18	18°♊34'40	
	9372 Nov 26 23:06	0°♊			9373 Nov 20 15:17	0°♊	
	9372 Dec 19 00:17	0°♊		evening max el	9373 Dec 02 16:14	14°♊17'45	27°30'03
evening max el	9372 Dec 20 04:53	1°♊10'11	27°15'17	retrograde	9373 Dec 16 10:21	21°♊36'16	
retrograde	9373 Jan 02 16:20	8°♊32'14		evening set	9373 Dec 23 11:11	19°♊08'19	
evening set	9373 Jan 09 11:34	5°♊57'25		min. Earth dist.	9373 Dec 27 04:39	16°♊00'32	0.63095 AU
min. Earth dist.	9373 Jan 13 08:40	2°♊19'45	0.64875 AU	inferior conj	9373 Dec 29 22:44	13°♊18'03	-2°16'16
	9373 Jan 15 11:44	30°♋		minimum elong	9373 Dec 30 03:07	13°♊07'12	2°14'13
inferior conj	9373 Jan 15 16:01	29°♋48'12	-1°06'16	morning rise	9374 Jan 05 21:09	8°♋04'50	
minimum elong	9373 Jan 15 18:01	29°♋42'43	1°05'10	asc. node	9374 Jan 05 20:33	8°♋05'22	
asc. node	9373 Jan 18 23:27	26°♋26'14		direct	9374 Jan 08 05:09	7°♋39'04	
morning rise	9373 Jan 22 02:02	24°♋19'09		morning max el	9374 Jan 14 19:58	11°♋03'20	17°47'22
direct	9373 Jan 24 16:28	23°♋43'39			9374 Jan 27 14:59	0°♋	
morning max el	9373 Jan 31 02:29	27°♋05'50	17°57'14	morning set	9374 Jan 31 00:14	5°♋53'09	
	9373 Feb 02 16:32	0°♋		desc. node	9374 Feb 09 01:41	21°♋27'54	
morning set	9373 Feb 17 16:31	23°♋21'39					
	9373 Feb 21 16:47	0°♋		superior conj	9374 Feb 12 01:44	26°♋28'39	-0°22'07
desc. node	9373 Feb 22 04:48	0°♋49'26		minimum elong	9374 Feb 11 23:26	26°♋19'09	0°21'34
					9374 Feb 14 05:05	0°♋	
superior conj	9373 Mar 03 16:46	16°♋11'38	-1°05'51	max. Earth dist.	9374 Feb 18 10:18	6°♋49'23	1.44249 AU
minimum elong	9373 Mar 03 09:22	15°♋42'11	1°04'48	evening rise	9374 Feb 27 06:18	20°♋40'48	
max. Earth dist.	9373 Mar 07 16:32	22°♋30'27	1.45267 AU		9374 Mar 05 09:13	0°♋	
	9373 Mar 12 11:30	0°♋			9374 Mar 26 22:54	0°♋	
evening rise	9373 Mar 19 18:53	11°♋18'07		evening max el	9374 Mar 28 20:24	2°♋02'09	20°56'31
	9373 Apr 01 02:01	0°♋		asc. node	9374 Apr 03 19:10	6°♋28'03	
greatest brilliancy	9373 Apr 03 03:57	3°♋04'39	-0.6m	retrograde	9374 Apr 06 06:59	6°♋59'07	
evening max el	9373 Apr 14 20:24	18°♋20'59	19°51'12	evening set	9374 Apr 10 10:55	5°♋21'09	
asc. node	9373 Apr 16 22:01	20°♋14'59			9374 Apr 15 03:27	30°♋	
retrograde	9373 Apr 22 08:25	22°♋39'27		inferior conj	9374 Apr 15 17:58	29°♋09'59	3°02'56
evening set	9373 Apr 26 02:44	21°♋16'58		minimum elong	9374 Apr 15 16:19	29°♋15'42	3°02'33
inferior conj	9373 May 01 11:12	15°♋18'01	3°17'25	min. Earth dist.	9374 Apr 16 04:54	28°♋32'08	0.68182 AU
minimum elong	9373 May 01 10:24	15°♋20'42	3°17'08	morning rise	9374 Apr 20 21:29	22°♋54'39	
min. Earth dist.	9373 May 02 11:50	13°♋55'23	0.67398 AU	direct	9374 Apr 26 05:59	20°♋32'40	
morning rise	9373 May 06 17:45	8°♋59'24		morning max el	9374 May 06 22:59	26°♋56'02	23°40'24
direct	9373 May 12 15:14	6°♋21'47		desc. node	9374 May 08 01:52	28°♋05'48	
desc. node	9373 May 21 04:56	10°♋23'58			9374 May 09 19:23	0°♋	
morning max el	9373 May 24 13:44	13°♋31'36	25°08'55		9374 May 31 12:37	0°♋	
	9373 Jun 06 22:04	0°♋		morning set	9374 Jun 11 04:32	17°♋18'28	
	9373 Jun 26 02:58	0°♋		max. Earth dist.	9374 Jun 15 01:43	24°♋01'11	1.38834 AU
morning set	9373 Jun 29 14:29	6°♋06'53			9374 Jun 18 10:05	0°♋	
max. Earth dist.	9373 Jul 03 05:17	12°♋42'33	1.36610 AU				
				superior conj	9374 Jun 22 13:19	7°♋37'57	-1°13'43
superior conj	9373 Jul 09 14:04	24°♋55'04	-0°41'18	minimum elong	9374 Jun 22 18:04	8°♋00'13	1°13'18
minimum elong	9373 Jul 09 16:38	25°♋07'45	0°41'05	asc. node	9374 Jun 30 18:04	23°♋24'56	
	9373 Jul 12 03:17	0°♋		evening rise	9374 Jul 01 17:47	25°♋20'30	
asc. node	9373 Jul 13 21:05	3°♋30'48			9374 Jul 04 03:31	0°♋	
evening rise	9373 Jul 17 20:07	11°♋32'37		evening max el	9374 Jul 17 23:38	21°♋41'26	18°48'19
	9373 Jul 27 16:35	0°♋		retrograde	9374 Jul 26 08:01	25°♋50'31	
evening max el	9373 Aug 04 01:20	9°♋44'32	19°40'37	evening set	9374 Jul 28 07:20	25°♋37'30	
retrograde	9373 Aug 13 23:12	14°♋38'41		desc. node	9374 Aug 04 01:04	22°♋15'35	
evening set	9373 Aug 15 19:35	14°♋29'12		inferior conj	9374 Aug 05 09:48	21°♋17'09	-0°25'05
desc. node	9373 Aug 17 03:55	14°♋11'00		minimum elong	9374 Aug 05 08:46	21°♋19'01	0°24'54
inferior conj	9373 Aug 24 16:00	10°♋26'16	-2°18'05	min. Earth dist.	9374 Aug 08 12:54	19°♋01'55	0.56887 AU
minimum elong	9373 Aug 24 09:45	10°♋36'02	2°15'52	morning rise	9374 Aug 13 06:51	16°♋15'42	
min. Earth dist.	9373 Aug 26 21:33	9°♋02'48	0.55366 AU	direct	9374 Aug 18 21:03	15°♋00'07	
morning rise	9373 Sep 01 21:46	6°♋01'44		morning max el	9374 Sep 02 03:50	22°♋25'32	26°19'53
direct	9373 Sep 06 16:23	5°♋11'05			9374 Sep 08 21:12	0°♋	
morning max el	9373 Sep 20 13:41	12°♋06'12	24°45'52	asc. node	9374 Sep 26 17:58	29°♋24'36	
	9373 Oct 04 06:40	0°♋					

	9374 Sep 27 01:02	0°♄			9375 Sep 03 11:48	0°♄	
morning set	9374 Sep 30 19:53	7°♄50'42		asc. node	9375 Sep 13 14:52	19°♄09'51	
				morning set	9375 Sep 15 03:45	22°♄22'02	
superior conj	9374 Oct 07 16:57	22°♄55'15	1°30'23		9375 Sep 18 16:58	0°♄	
minimum elong	9374 Oct 07 15:11	22°♄45'25	1°30'19				
max. Earth dist.	9374 Oct 08 08:25	24°♄21'02	1.31782 AU	superior conj	9375 Sep 22 04:43	7°♄42'42	1°17'00
	9374 Oct 10 21:57	0°♄		minimum elong	9375 Sep 22 02:31	7°♄30'28	1°16'42
evening rise	9374 Oct 14 15:01	7°♄58'04		max. Earth dist.	9375 Sep 21 18:22	6°♄45'15	1.31551 AU
	9374 Oct 26 03:19	0°♄		evening rise	9375 Sep 28 22:47	22°♄32'22	
desc. node	9374 Oct 30 23:25	7°♄52'50			9375 Oct 02 12:47	0°♄	
evening max el	9374 Nov 14 23:22	26°♄47'51	27°12'38	desc. node	9375 Oct 17 20:34	26°♄26'23	
	9374 Nov 18 18:22	0°♄			9375 Oct 20 11:28	0°♄	
retrograde	9374 Nov 28 20:24	3°♄59'30		evening max el	9375 Oct 27 23:21	8°♄28'07	26°21'05
evening set	9374 Dec 05 20:36	1°♄47'55		retrograde	9375 Nov 10 21:20	15°♄33'24	
	9374 Dec 08 09:56	30°♄47'55		evening set	9375 Nov 17 11:17	13°♄48'00	
min. Earth dist.	9374 Dec 09 14:01	29°♄03'05	0.61085 AU	min. Earth dist.	9375 Nov 21 12:34	11°♄13'27	0.58983 AU
inferior conj	9374 Dec 12 16:13	26°♄22'14	-3°28'50	inferior conj	9375 Nov 24 16:49	8°♄49'41	-4°36'43
minimum elong	9374 Dec 12 22:55	26°♄07'39	3°26'15	minimum elong	9375 Nov 25 00:25	8°♄35'16	4°34'33
morning rise	9374 Dec 20 03:39	21°♄28'19		morning rise	9375 Dec 02 16:01	4°♄18'07	
direct	9374 Dec 22 08:10	21°♄08'39		direct	9375 Dec 04 20:59	4°♄01'20	
asc. node	9374 Dec 23 17:38	21°♄16'55		asc. node	9375 Dec 10 14:40	6°♄02'06	
morning max el	9374 Dec 29 11:23	24°♄43'41	17°55'52	morning max el	9375 Dec 12 21:06	7°♄56'18	18°24'13
	9375 Jan 02 19:15	0°♄			9375 Dec 27 00:46	0°♄	
morning set	9375 Jan 14 02:50	19°♄18'25		morning set	9375 Dec 28 18:36	3°♄19'24	
	9375 Jan 19 23:57	0°♄					
superior conj	9375 Jan 24 12:10	7°♄58'54	0°18'15	superior conj	9376 Jan 06 21:07	20°♄32'45	0°51'01
minimum elong	9375 Jan 24 13:43	8°♄05'39	0°18'16	minimum elong	9376 Jan 07 00:15	20°♄47'10	0°50'52
desc. node	9375 Jan 26 22:36	12°♄11'07			9376 Jan 12 03:21	0°♄	
max. Earth dist.	9375 Feb 01 00:28	20°♄42'43	1.42644 AU	desc. node	9376 Jan 13 19:32	2°♄54'56	
	9375 Feb 06 18:28	0°♄		max. Earth dist.	9376 Jan 14 09:42	3°♄55'54	1.40625 AU
evening rise	9375 Feb 07 03:24	0°♄35'20		evening rise	9376 Jan 18 19:41	11°♄22'03	
	9375 Feb 26 22:22	0°♄			9376 Jan 30 16:36	0°♄	
evening max el	9375 Mar 11 15:14	15°♄44'52	22°11'42	evening max el	9376 Feb 22 06:17	29°♄29'40	23°31'43
retrograde	9375 Mar 21 04:14	21°♄23'46			9376 Feb 22 18:36	0°♄	
asc. node	9375 Mar 21 16:19	21°♄22'30		retrograde	9376 Mar 03 22:50	5°♄48'26	
evening set	9375 Mar 25 18:56	19°♄30'29		asc. node	9376 Mar 07 13:28	4°♄45'30	
inferior conj	9375 Mar 31 02:39	13°♄09'36	2°38'22	evening set	9376 Mar 09 01:14	3°♄40'44	
minimum elong	9375 Mar 31 00:31	13°♄17'02	2°37'48		9376 Mar 12 09:53	30°♄	
min. Earth dist.	9375 Mar 31 00:53	13°♄15'44	0.68521 AU	inferior conj	9376 Mar 14 11:19	27°♄13'26	2°04'33
morning rise	9375 Apr 05 05:56	6°♄58'53		minimum elong	9376 Mar 14 09:07	27°♄20'57	2°03'54
direct	9375 Apr 10 00:35	4°♄57'25		min. Earth dist.	9376 Mar 13 21:34	28°♄00'35	0.68427 AU
morning max el	9375 Apr 19 10:34	10°♄28'39	22°11'27	morning rise	9376 Mar 19 16:59	21°♄08'33	
desc. node	9375 Apr 24 22:46	16°♄43'20		direct	9376 Mar 23 22:02	19°♄29'18	
	9375 May 04 19:04	0°♄		morning max el	9376 Apr 01 03:56	24°♄12'24	20°49'57
morning set	9375 May 22 16:25	27°♄16'58			9376 Apr 06 06:05	0°♄	
	9375 May 24 08:31	0°♄		desc. node	9376 Apr 10 19:39	6°♄01'08	
max. Earth dist.	9375 May 28 00:29	6°♄04'31	1.41084 AU		9376 Apr 27 03:39	0°♄	
				morning set	9376 May 01 02:38	6°♄07'04	
superior conj	9375 Jun 04 18:55	19°♄30'17	-1°43'17	max. Earth dist.	9376 May 09 05:32	19°♄01'25	1.43074 AU
minimum elong	9375 Jun 05 01:01	19°♄57'25	1°42'56		9376 May 15 20:59	0°♄	
	9375 Jun 10 13:48	0°♄		superior conj	9376 May 16 02:17	0°♄22'21	-2°05'01
evening rise	9375 Jun 15 04:50	8°♄35'58		minimum elong	9376 May 16 07:07	0°♄42'44	2°05'01
asc. node	9375 Jun 17 15:05	13°♄06'44		evening rise	9376 May 28 00:56	21°♄08'40	
	9375 Jun 27 16:33	0°♄			9376 Jun 02 01:09	0°♄	
evening max el	9375 Jul 01 06:44	4°♄15'46	18°16'44	asc. node	9376 Jun 03 12:06	2°♄31'13	
retrograde	9375 Jul 08 12:13	7°♄54'05		evening max el	9376 Jun 13 18:49	17°♄18'17	18°05'00
evening set	9375 Jul 10 18:30	7°♄33'27		retrograde	9376 Jun 20 08:51	20°♄41'13	
inferior conj	9375 Jul 18 01:25	2°♄52'28	1°07'43	evening set	9376 Jun 22 22:48	20°♄09'50	
minimum elong	9375 Jul 18 03:33	2°♄47'55	1°06'42	inferior conj	9376 Jun 29 12:51	15°♄09'08	2°13'35
	9375 Jul 21 11:14	30°♄		minimum elong	9376 Jun 29 15:46	15°♄01'57	2°12'29
min. Earth dist.	9375 Jul 21 10:25	0°♄01'37	0.58939 AU	min. Earth dist.	9376 Jul 02 16:12	12°♄05'26	0.61192 AU
desc. node	9375 Jul 21 22:11	29°♄38'16		morning rise	9376 Jul 06 06:17	9°♄09'50	
morning rise	9375 Jul 25 09:21	27°♄17'03		desc. node	9376 Jul 07 19:15	8°♄14'34	
direct	9375 Jul 31 15:24	25°♄31'19		direct	9376 Jul 12 21:45	6°♄55'07	
	9375 Aug 11 06:52	0°♄		morning max el	9376 Jul 27 04:04	14°♄55'17	27°55'15
morning max el	9375 Aug 15 00:31	3°♄18'11	27°25'59		9376 Aug 08 09:27	0°♄	

	9376 Aug 26 00:05	0°♍			9377 Aug 02 02:08	0°♎		
morning set	9376 Aug 29 06:59	6°♍37'35		morning set	9377 Aug 13 03:16	20°♎29'40		
asc. node	9376 Aug 30 11:45	9°♍07'00		asc. node	9377 Aug 17 08:39	29°♎10'29		
max. Earth dist.	9376 Sep 04 02:41	19°♍02'15	1.31793 AU		9377 Aug 17 18:02	0°♍		
				max. Earth dist.	9377 Aug 18 05:18	0°♍59'33	1.32521 AU	
superior conj	9376 Sep 05 15:16	22°♍23'12	0°58'33					
minimum elong	9376 Sep 05 13:06	22°♍11'17	0°58'06	superior conj	9377 Aug 20 22:40	6°♍49'58	0°35'23	
	9376 Sep 09 02:01	0°♎		minimum elong	9377 Aug 20 21:05	6°♍41'25	0°34'56	
evening rise	9376 Sep 12 09:25	7°♎12'28		evening rise	9377 Aug 27 20:57	21°♍51'37		
	9376 Sep 24 03:38	0°♍			9377 Aug 31 18:40	0°♎		
desc. node	9376 Oct 03 17:42	13°♍57'59		evening max el	9377 Sep 20 02:11	29°♎33'07	23°22'17	
evening max el	9376 Oct 08 15:07	19°♍17'47	25°00'05	desc. node	9377 Sep 20 14:51	0°♍03'16		
retrograde	9376 Oct 22 11:36	26°♍16'13			9377 Sep 20 13:27	0°♍		
evening set	9376 Oct 28 02:40	25°♍04'37		retrograde	9377 Oct 03 13:17	6°♍16'22		
min. Earth dist.	9376 Nov 02 02:41	22°♍22'01	0.57018 AU	evening set	9377 Oct 07 18:13	5°♍37'49		
inferior conj	9376 Nov 04 21:37	20°♍32'05	-5°26'30	min. Earth dist.	9377 Oct 14 11:58	2°♍28'50	0.55492 AU	
minimum elong	9376 Nov 05 02:37	20°♍23'49	5°25'42	inferior conj	9377 Oct 16 06:30	1°♍26'23	-5°38'51	
morning rise	9376 Nov 13 04:52	16°♍23'03		minimum elong	9377 Oct 16 04:30	1°♍29'20	5°38'37	
direct	9376 Nov 15 15:25	16°♍06'03			9377 Oct 18 18:47	30°♎♎		
morning max el	9376 Nov 24 21:24	20°♍30'50	19°14'05	morning rise	9377 Oct 24 16:43	27°♎34'21		
asc. node	9376 Nov 26 11:38	22°♍09'47		direct	9377 Oct 27 14:47	27°♎13'42		
	9376 Dec 02 04:58	0°♎			9377 Nov 04 14:04	0°♍		
morning set	9376 Dec 11 19:18	17°♎43'53		morning max el	9377 Nov 07 09:06	2°♍17'41	20°26'33	
	9376 Dec 17 23:15	0°♎		asc. node	9377 Nov 13 08:36	9°♍24'15		
					9377 Nov 24 21:52	0°♎		
superior conj	9376 Dec 19 23:33	3°♎55'47	1°15'07	morning set	9377 Nov 26 01:53	2°♎23'03		
minimum elong	9376 Dec 20 02:37	4°♎10'37	1°15'05					
max. Earth dist.	9376 Dec 26 15:24	16°♎25'32	1.38439 AU	superior conj	9377 Dec 03 14:47	17°♎54'26	1°30'52	
evening rise	9376 Dec 30 09:42	23°♎06'11		minimum elong	9377 Dec 03 16:55	18°♎05'13	1°31'00	
desc. node	9376 Dec 30 16:31	23°♎35'44		max. Earth dist.	9377 Dec 08 22:33	28°♎26'04	1.36335 AU	
	9377 Jan 03 11:03	0°♎			9377 Dec 09 18:12	0°♎		
	9377 Jan 23 12:37	0°♎		evening rise	9377 Dec 12 19:23	5°♎34'48		
evening max el	9377 Feb 03 19:37	13°♎17'23	24°50'16	desc. node	9377 Dec 17 13:31	14°♎09'29		
retrograde	9377 Feb 15 13:36	20°♎08'06			9377 Dec 27 07:41	0°♎		
evening set	9377 Feb 21 04:16	17°♎47'53		evening max el	9378 Jan 17 08:57	27°♎05'58	26°00'19	
asc. node	9377 Feb 22 10:35	16°♎36'34			9378 Jan 20 14:41	0°♎		
min. Earth dist.	9377 Feb 25 16:49	12°♎42'17	0.67921 AU	retrograde	9378 Jan 29 23:32	4°♎16'55		
inferior conj	9377 Feb 26 18:09	11°♎18'30	1°21'56	evening set	9378 Feb 05 02:25	1°♎47'14		
minimum elong	9377 Feb 26 16:23	11°♎24'21	1°21'24		9378 Feb 06 23:43	30°♎♎		
morning rise	9377 Mar 04 04:44	5°♎20'48		asc. node	9378 Feb 09 07:43	27°♎18'17		
direct	9377 Mar 07 21:03	4°♎03'02		min. Earth dist.	9378 Feb 09 08:22	27°♎16'16	0.67024 AU	
morning max el	9377 Mar 15 04:57	8°♎08'02	19°41'05	inferior conj	9378 Feb 10 21:16	25°♎21'07	0°30'46	
greatest brilliancy	9377 Mar 27 22:39	24°♎42'43	-0.6m	minimum elong	9378 Feb 10 20:29	25°♎23'34	0°30'38	
desc. node	9377 Mar 28 16:32	25°♎48'28		morning rise	9378 Feb 16 15:10	19°♎32'30		
	9377 Mar 31 12:09	0°♎		direct	9378 Feb 19 20:11	18°♎33'45		
morning set	9377 Apr 10 00:38	14°♎29'26		morning max el	9378 Feb 26 13:30	22°♎12'53	18°47'41	
	9377 Apr 19 23:41	0°♎			9378 Mar 04 22:22	0°♎		
max. Earth dist.	9377 Apr 21 17:10	2°♎43'55	1.44580 AU	desc. node	9378 Mar 15 13:24	15°♎57'27		
				morning set	9378 Mar 20 10:34	23°♎34'16		
superior conj	9377 Apr 26 09:07	10°♎11'01	-2°12'30		9378 Mar 24 13:18	0°♎		
minimum elong	9377 Apr 26 08:30	10°♎08'31	2°12'41	max. Earth dist.	9378 Apr 04 10:19	17°♎00'05	1.45434 AU	
	9377 May 08 09:35	0°♎						
evening rise	9377 May 10 01:17	2°♎47'28		superior conj	9378 Apr 05 20:11	19°♎12'52	-2°00'28	
asc. node	9377 May 21 09:09	21°♎31'31		minimum elong	9378 Apr 05 12:35	18°♎43'03	2°00'06	
	9377 May 27 17:05	0°♎			9378 Apr 12 16:19	0°♎		
evening max el	9377 May 28 08:21	0°♎39'20	18°12'08	evening rise	9378 Apr 21 02:21	13°♎27'43		
retrograde	9377 Jun 03 17:19	4°♎01'16		greatest brilliancy	9378 Apr 27 10:30	23°♎40'42	-0.9m	
evening set	9377 Jun 06 14:53	3°♎16'54			9378 May 01 10:04	0°♎		
	9377 Jun 10 18:27	30°♎♎		asc. node	9378 May 08 06:15	10°♎00'16		
inferior conj	9377 Jun 12 16:00	27°♎57'58	2°54'43	evening max el	9378 May 11 20:32	14°♎12'20	18°37'20	
minimum elong	9377 Jun 12 18:16	27°♎51'42	2°53'59	retrograde	9378 May 18 09:36	17°♎46'43		
min. Earth dist.	9377 Jun 15 07:05	25°♎04'16	0.63369 AU	evening set	9378 May 21 14:52	16°♎47'55		
morning rise	9377 Jun 18 20:09	21°♎45'21		inferior conj	9378 May 27 06:57	11°♎12'10	3°15'37	
desc. node	9377 Jun 24 16:19	19°♎12'13		minimum elong	9378 May 27 08:00	11°♎08'56	3°15'14	
direct	9377 Jun 25 13:49	19°♎09'36		min. Earth dist.	9378 May 29 07:02	8°♎46'17	0.65264 AU	
morning max el	9377 Jul 09 12:14	27°♎12'44	27°46'22	morning rise	9378 Jun 02 00:21	4°♎53'52		
	9377 Jul 12 03:17	0°♎		direct	9378 Jun 08 13:40	2°♎08'45		

desc. node	9378 Jun 11 13:20	2° Π 38'27		morning rise	9379 May 16 15:51	18° \mathcal{B} 25'40	
morning max el	9378 Jun 21 22:32	10° Π 02'08	27°03'51	direct	9379 May 22 19:59	15° \mathcal{B} 42'46	
	9378 Jul 07 15:23	0° \mathcal{E}		desc. node	9379 May 29 10:20	18° \mathcal{B} 07'10	
	9378 Jul 25 13:13	0° Ω		morning max el	9379 Jun 04 08:52	23° \mathcal{B} 12'19	25°55'50
morning set	9378 Jul 27 13:47	3° Ω 51'04			9379 Jun 10 09:14	0° Π	
max. Earth dist.	9378 Jul 31 22:57	12° Ω 31'17	1.33751 AU		9379 Jun 30 23:33	0° \mathcal{E}	
asc. node	9378 Aug 04 05:35	19° Ω 16'24		morning set	9379 Jul 10 10:54	16° \mathcal{E} 32'20	
				max. Earth dist.	9379 Jul 14 06:10	23° \mathcal{E} 41'37	1.35455 AU
					9379 Jul 17 11:39	0° Ω	
superior conj	9378 Aug 05 00:50	20° Ω 57'22	0°08'02				
minimum elong	9378 Aug 05 00:26	20° Ω 55'13	0°07'44	superior conj	9379 Jul 19 19:13	4° Ω 38'40	-0°22'41
behind sun begin	9378 Aug 04 19:27	20° Ω 29'05		minimum elong	9379 Jul 19 20:34	4° Ω 45'31	0°22'40
behind sun end	9378 Aug 05 05:24	21° Ω 21'22		asc. node	9379 Jul 22 02:33	9° Ω 21'03	
	9378 Aug 09 07:04	0° \mathcal{M}		evening rise	9379 Jul 27 15:11	20° Ω 46'15	
evening rise	9378 Aug 12 07:33	6° \mathcal{M} 24'45			9379 Aug 01 05:35	0° \mathcal{M}	
	9378 Aug 24 22:33	0° \mathcal{A}		evening max el	9379 Aug 14 18:46	20° \mathcal{M} 33'21	20°20'08
evening max el	9378 Sep 01 16:50	9° \mathcal{A} 47'34	21°44'26	desc. node	9379 Aug 25 09:11	25° \mathcal{M} 57'07	
desc. node	9378 Sep 07 12:01	14° \mathcal{A} 12'34		retrograde	9379 Aug 25 16:17	25° \mathcal{M} 57'21	
retrograde	9378 Sep 14 03:45	15° \mathcal{A} 58'43		evening set	9379 Aug 27 16:01	25° \mathcal{M} 47'20	
evening set	9378 Sep 16 22:49	15° \mathcal{A} 41'07		inferior conj	9379 Sep 05 18:52	21° \mathcal{M} 49'36	-3°23'53
inferior conj	9378 Sep 26 01:19	11° \mathcal{A} 42'58	-4°56'48	minimum elong	9379 Sep 05 10:01	22° \mathcal{M} 02'33	3°21'00
minimum elong	9378 Sep 25 16:33	11° \mathcal{A} 55'13	4°54'56	min. Earth dist.	9379 Sep 07 04:57	20° \mathcal{M} 59'42	0.54850 AU
min. Earth dist.	9378 Sep 25 19:44	11° \mathcal{A} 50'47	0.54707 AU	morning rise	9379 Sep 14 03:17	17° \mathcal{M} 43'37	
morning rise	9378 Oct 04 11:27	7° \mathcal{A} 54'19		direct	9379 Sep 18 10:36	17° \mathcal{M} 03'45	
direct	9378 Oct 08 01:13	7° \mathcal{A} 26'26		morning max el	9379 Oct 01 21:23	23° \mathcal{M} 35'52	23°45'22
morning max el	9378 Oct 20 07:39	13° \mathcal{A} 14'49	21°59'40		9379 Oct 07 15:49	0° \mathcal{A}	
asc. node	9378 Oct 31 05:35	27° \mathcal{A} 30'47		asc. node	9379 Oct 18 02:32	16° \mathcal{A} 16'45	
	9378 Nov 01 16:38	0° \mathcal{M}			9379 Oct 25 01:00	0° \mathcal{M}	
morning set	9378 Nov 10 11:58	17° \mathcal{M} 10'12		morning set	9379 Oct 25 23:40	1° \mathcal{M} 59'52	
	9378 Nov 16 12:58	0° \mathcal{X}					
superior conj	9378 Nov 17 15:04	2° \mathcal{X} 17'53	1°39'01	superior conj	9379 Nov 01 21:28	16° \mathcal{M} 57'31	1°40'25
minimum elong	9378 Nov 17 15:57	2° \mathcal{X} 22'30	1°39'16	minimum elong	9379 Nov 01 21:08	16° \mathcal{M} 55'40	1°40'37
max. Earth dist.	9378 Nov 21 12:09	10° \mathcal{X} 19'59	1.34513 AU	max. Earth dist.	9379 Nov 04 09:55	22° \mathcal{M} 22'14	1.33089 AU
evening rise	9378 Nov 25 21:01	18° \mathcal{X} 59'10			9379 Nov 08 01:36	0° \mathcal{X}	
	9378 Dec 01 20:06	0° \mathcal{Z}		evening rise	9379 Nov 09 10:56	2° \mathcal{X} 48'48	
desc. node	9378 Dec 04 10:32	4° \mathcal{Z} 31'11		desc. node	9379 Nov 21 07:37	24° \mathcal{X} 35'03	
	9378 Dec 21 10:39	0° \approx			9379 Nov 24 16:01	0° \mathcal{Z}	
evening max el	9378 Dec 30 22:28	10° \approx 47'28	26°54'19	evening max el	9379 Dec 13 11:01	24° \mathcal{Z} 10'56	27°25'10
retrograde	9379 Jan 13 03:40	18° \approx 07'21			9379 Dec 21 06:36	0° \approx	
evening set	9379 Jan 19 17:44	15° \approx 32'42		retrograde	9379 Dec 27 01:28	1° \approx 31'37	
min. Earth dist.	9379 Jan 23 17:53	11° \approx 36'02	0.65763 AU		9380 Jan 01 10:27	30° \mathcal{R} \mathcal{Z}	
inferior conj	9379 Jan 25 18:29	9° \approx 15'45	-0°28'38	evening set	9380 Jan 02 23:54	28° \mathcal{Z} 58'30	
minimum elong	9379 Jan 25 19:18	9° \approx 13'25	0°28'03	min. Earth dist.	9380 Jan 06 19:10	25° \mathcal{Z} 34'23	0.64161 AU
asc. node	9379 Jan 27 04:51	7° \approx 38'17		inferior conj	9380 Jan 09 07:19	22° \mathcal{Z} 56'53	-1°35'18
morning rise	9379 Jan 31 22:01	3° \approx 38'41		minimum elong	9380 Jan 09 10:18	22° \mathcal{Z} 49'04	1°33'47
direct	9379 Feb 03 17:20	2° \approx 55'40		asc. node	9380 Jan 14 01:57	18° \mathcal{Z} 35'29	
morning max el	9379 Feb 10 03:43	6° \approx 20'42	18°10'46	morning rise	9380 Jan 15 22:28	17° \mathcal{Z} 34'17	
	9379 Feb 26 11:58	0° \mathcal{H}		direct	9380 Jan 18 09:58	17° \mathcal{Z} 03'18	
morning set	9379 Mar 01 00:01	4° \mathcal{H} 02'59		morning max el	9380 Jan 24 20:57	20° \mathcal{Z} 24'49	17°50'53
desc. node	9379 Mar 02 10:16	6° \mathcal{H} 21'26			9380 Feb 01 03:26	0° \approx	
				morning set	9380 Feb 10 17:53	15° \approx 54'57	
superior conj	9379 Mar 16 02:11	28° \mathcal{H} 07'42	-1°29'25	desc. node	9380 Feb 17 07:10	26° \approx 56'04	
minimum elong	9379 Mar 15 16:50	27° \mathcal{H} 30'58	1°28'22		9380 Feb 19 03:36	0° \mathcal{H}	
	9379 Mar 17 06:48	0° \mathcal{Y}		superior conj	9380 Feb 23 21:52	7° \mathcal{H} 46'11	-0°47'19
max. Earth dist.	9379 Mar 18 06:17	1° \mathcal{Y} 32'03	1.45548 AU	minimum elong	9380 Feb 23 16:36	7° \mathcal{H} 24'55	0°46'26
evening rise	9379 Apr 01 04:55	23° \mathcal{Y} 15'47		max. Earth dist.	9380 Feb 29 01:41	16° \mathcal{H} 00'53	1.44922 AU
	9379 Apr 05 13:00	0° \mathcal{B}			9380 Mar 09 00:51	0° \mathcal{Y}	
greatest brilliancy	9379 Apr 13 04:57	11° \mathcal{B} 46'38	-0.7m	evening rise	9380 Mar 10 17:42	2° \mathcal{Y} 37'00	
evening max el	9379 Apr 25 04:58	27° \mathcal{B} 50'48	19°19'41		9380 Mar 29 03:16	0° \mathcal{B}	
asc. node	9379 Apr 25 03:23	27° \mathcal{B} 46'48		evening max el	9380 Apr 07 08:05	11° \mathcal{B} 30'57	20°17'24
	9379 Apr 27 15:25	0° Π		asc. node	9380 Apr 11 00:32	14° \mathcal{B} 38'16	
retrograde	9379 May 02 06:24	1° Π 49'59		retrograde	9380 Apr 15 05:02	16° \mathcal{B} 05'11	
evening set	9379 May 05 19:48	0° Π 36'05		evening set	9380 Apr 19 03:21	14° \mathcal{B} 35'55	
	9379 May 06 14:45	30° \mathcal{R} \mathcal{B}		inferior conj	9380 Apr 24 10:54	8° \mathcal{B} 31'14	3°12'33
inferior conj	9379 May 11 06:12	24° \mathcal{B} 44'56	3°20'32	minimum elong	9380 Apr 24 09:42	8° \mathcal{B} 35'20	3°12'14
minimum elong	9379 May 11 06:01	24° \mathcal{B} 45'31	3°20'17	min. Earth dist.	9380 Apr 25 05:29	7° \mathcal{B} 27'52	0.67790 AU
min. Earth dist.	9379 May 12 15:03	22° \mathcal{B} 57'52	0.66752 AU				

morning rise	9380 Apr 29 15:49	2°♄13'48			9381 Apr 01 09:38	30°♄♂	
	9380 May 03 08:13	30°♄♂		evening set	9381 Apr 03 11:40	28°♄♂43'12	
direct	9380 May 05 07:49	29°♄♂42'22		inferior conj	9381 Apr 08 18:44	22°♄♂27'19	2°53'42
	9380 May 07 09:46	0°♄		minimum elong	9381 Apr 08 16:50	22°♄♂33'56	2°53'14
desc. node	9380 May 15 07:18	5°♄07'59		min. Earth dist.	9381 Apr 09 00:10	22°♄♂08'25	0.68376 AU
morning max el	9380 May 16 18:24	6°♄33'39	24°31'51	morning rise	9381 Apr 13 21:48	16°♄♂13'33	
	9380 Jun 03 23:06	0°♄		direct	9381 Apr 19 00:21	13°♄♂59'58	
morning set	9380 Jun 21 13:53	28°♄♂20'59		morning max el	9381 Apr 29 04:21	20°♄♂02'00	23°02'02
	9380 Jun 22 12:24	0°♄		desc. node	9381 May 02 04:14	23°♄♂16'01	
max. Earth dist.	9380 Jun 25 05:00	4°♄49'07	1.37537 AU		9381 May 07 15:31	0°♄	
					9381 May 28 03:42	0°♄	
superior conj	9380 Jul 02 02:33	17°♄♂45'22	-0°55'09	morning set	9381 Jun 02 17:20	9°♄♂03'19	
minimum elong	9380 Jul 02 06:04	18°♄♂02'23	0°54'51	max. Earth dist.	9381 Jun 07 01:22	16°♄♂23'19	1.39800 AU
asc. node	9380 Jul 07 23:32	29°♄♂20'11					
	9380 Jul 08 07:30	0°♄		superior conj	9381 Jun 14 18:52	0°♄♂08'17	-1°26'53
evening rise	9380 Jul 10 17:22	4°♄♂48'47		minimum elong	9381 Jun 15 00:23	0°♄♂33'33	1°26'26
	9380 Jul 25 12:25	0°♄			9381 Jun 14 17:04	0°♄	
evening max el	9380 Jul 27 10:09	2°♄♂04'18	19°15'43	evening rise	9381 Jun 24 11:01	18°♄♂24'24	
retrograde	9380 Aug 05 15:19	6°♄♂38'27		asc. node	9381 Jun 24 20:31	19°♄♂09'51	
evening set	9380 Aug 07 11:51	6°♄♂28'07			9381 Jun 30 15:50	0°♄	
desc. node	9380 Aug 11 06:20	5°♄♂10'15		evening max el	9381 Jul 10 12:44	14°♄♂18'48	18°32'25
inferior conj	9380 Aug 16 01:14	2°♄♂18'22	-1°28'42	retrograde	9381 Jul 18 08:22	18°♄♂12'53	
minimum elong	9380 Aug 15 21:18	2°♄♂24'54	1°27'20	evening set	9381 Jul 20 10:19	17°♄♂57'11	
min. Earth dist.	9380 Aug 18 17:49	0°♄♂31'31	0.55920 AU	inferior conj	9381 Jul 28 04:23	13°♄♂28'30	0°17'25
	9380 Aug 19 13:44	30°♄♂♄		minimum elong	9381 Jul 28 05:01	13°♄♂27'15	0°16'56
morning rise	9380 Aug 24 03:54	27°♄♂38'10		desc. node	9381 Jul 29 03:28	12°♄♂43'26	
direct	9380 Aug 29 06:42	26°♄♂38'08		min. Earth dist.	9381 Jul 31 11:53	10°♄♂55'15	0.57713 AU
	9380 Sep 07 18:45	0°♄		morning rise	9381 Aug 04 20:10	8°♄♂11'20	
morning max el	9380 Sep 12 09:41	3°♄♂47'41	25°28'35	direct	9381 Aug 10 17:48	6°♄♂42'56	
	9380 Oct 01 01:15	0°♄		morning max el	9381 Aug 25 02:27	14°♄♂19'27	26°52'03
asc. node	9380 Oct 03 23:28	5°♄♂31'28			9381 Sep 06 15:35	0°♄	
morning set	9380 Oct 09 11:10	16°♄♂45'53		asc. node	9381 Sep 20 20:23	25°♄♂07'27	
	9380 Oct 15 12:30	0°♄			9381 Sep 23 04:59	0°♄	
				morning set	9381 Sep 23 20:51	1°♄♂23'48	
superior conj	9380 Oct 16 07:30	1°♄♂44'54	1°35'41				
minimum elong	9380 Oct 16 06:10	1°♄♂37'29	1°35'44	superior conj	9381 Sep 30 19:10	16°♄♂34'02	1°25'21
max. Earth dist.	9380 Oct 17 14:36	4°♄♂35'56	1.32118 AU	minimum elong	9381 Sep 30 17:09	16°♄♂22'53	1°25'11
evening rise	9380 Oct 23 09:48	17°♄♂01'09		max. Earth dist.	9381 Sep 30 23:28	16°♄♂57'56	1.31622 AU
	9380 Oct 29 23:49	0°♄♂			9381 Oct 06 22:11	0°♄	
desc. node	9380 Nov 07 04:43	14°♄♂12'26		evening rise	9381 Oct 07 14:59	1°♄♂29'19	
	9380 Nov 18 09:03	0°♄♂			9381 Oct 22 23:33	0°♄♂	
evening max el	9380 Nov 24 20:38	7°♄♂02'56	27°26'44	desc. node	9381 Oct 25 01:49	3°♄♂12'59	
retrograde	9380 Dec 08 16:20	14°♄♂19'24		evening max el	9381 Nov 07 00:53	19°♄♂12'00	26°54'47
evening set	9380 Dec 15 17:57	11°♄♂56'48		retrograde	9381 Nov 20 22:59	26°♄♂21'34	
min. Earth dist.	9380 Dec 19 10:33	9°♄♂00'15	0.62262 AU	evening set	9381 Nov 27 19:56	24°♄♂20'00	
inferior conj	9380 Dec 22 08:46	6°♄♂16'22	-2°47'03	min. Earth dist.	9381 Dec 01 15:22	21°♄♂41'14	0.60183 AU
minimum elong	9380 Dec 22 14:12	6°♄♂03'38	2°44'41	inferior conj	9381 Dec 04 19:24	19°♄♂05'29	-3°58'54
morning rise	9380 Dec 29 12:47	1°♄♂11'20		minimum elong	9381 Dec 05 02:47	18°♄♂50'20	3°56'21
asc. node	9380 Dec 30 23:02	0°♄♂51'45		morning rise	9381 Dec 12 12:09	14°♄♂20'50	
direct	9380 Dec 31 18:51	0°♄♂48'40		direct	9381 Dec 14 16:07	14°♄♂02'56	
morning max el	9381 Jan 07 14:01	4°♄♂16'19	17°48'43	asc. node	9381 Dec 17 20:05	14°♄♂43'03	
morning set	9381 Jan 23 10:23	28°♄♂51'20		morning max el	9381 Dec 22 03:25	17°♄♂45'42	18°05'25
	9381 Jan 24 01:48	0°♄♂			9381 Dec 30 21:12	0°♄♂	
desc. node	9381 Feb 03 04:04	17°♄♂37'04		morning set	9382 Jan 06 19:08	12°♄♂32'57	
					9382 Jan 16 06:46	0°♄♂	
superior conj	9381 Feb 03 17:45	18°♄♂35'02	-0°04'16				
minimum elong	9381 Feb 03 17:22	18°♄♂33'22	0°04'00	superior conj	9382 Jan 16 14:15	0°♄♂33'22	0°33'11
behind sun begin	9381 Feb 03 08:45	17°♄♂56'57		minimum elong	9382 Jan 16 16:43	0°♄♂44'24	0°33'05
behind sun end	9381 Feb 04 01:58	19°♄♂09'42		desc. node	9382 Jan 21 00:58	8°♄♂20'42	
max. Earth dist.	9381 Feb 10 17:49	0°♄♂09'39	1.43627 AU	max. Earth dist.	9382 Jan 24 05:18	13°♄♂44'37	1.41817 AU
	9381 Feb 10 15:26	0°♄♂		evening rise	9382 Jan 29 11:57	22°♄♂23'58	
evening rise	9381 Feb 18 07:30	12°♄♂09'04			9382 Feb 03 07:29	0°♄♂	
	9381 Mar 02 03:08	0°♄♂			9382 Feb 24 05:59	0°♄♂	
evening max el	9381 Mar 21 05:39	25°♄♂12'22	21°27'31	evening max el	9382 Mar 03 22:38	8°♄♂55'54	22°45'36
	9381 Mar 27 18:07	0°♄♂		retrograde	9382 Mar 13 23:38	14°♄♂52'38	
asc. node	9381 Mar 28 21:39	0°♄♂19'58		asc. node	9382 Mar 15 18:47	14°♄♂36'39	
retrograde	9381 Mar 30 03:22	0°♄♂27'39		evening set	9382 Mar 18 19:06	12°♄♂53'19	

inferior conj	9382 Mar 24 03:38	6°♂29'18	2°25'09	retrograde	9383 Feb 25 16:36	29°♂16'00	
minimum elong	9382 Mar 24 01:25	6°♂36'59	2°24'32	asc. node	9383 Mar 02 15:55	27°♂19'53	
min. Earth dist.	9382 Mar 23 20:47	6°♂53'03	0.68530 AU	evening set	9383 Mar 03 00:11	27°♂02'52	
morning rise	9382 Mar 29 07:35	0°♂20'41		min. Earth dist.	9383 Mar 07 17:07	21°♂37'27	0.68264 AU
	9382 Mar 29 17:59	30°♂♂		inferior conj	9383 Mar 08 11:45	20°♂34'23	1°47'35
direct	9382 Apr 02 20:25	28°♂28'23		minimum elong	9383 Mar 08 09:41	20°♂41'24	1°46'57
	9382 Apr 07 08:46	0°♂		morning rise	9383 Mar 13 19:12	14°♂32'21	
morning max el	9382 Apr 11 17:51	3°♂38'28	21°35'25	direct	9383 Mar 17 18:49	13°♂02'13	
desc. node	9382 Apr 19 01:07	12°♂12'16		morning max el	9383 Mar 25 14:16	17°♂27'13	20°18'54
	9382 May 01 16:30	0°♂			9383 Apr 04 16:31	0°♂	
morning set	9382 May 13 17:35	18°♂30'13		desc. node	9383 Apr 05 22:00	1°♂43'55	
max. Earth dist.	9382 May 20 02:03	28°♂47'39	1.41979 AU	morning set	9383 Apr 22 20:03	27°♂01'00	
	9382 May 20 19:32	0°♂			9383 Apr 24 18:13	0°♂	
				max. Earth dist.	9383 May 02 10:26	12°♂07'11	1.43797 AU
superior conj	9382 May 27 15:31	11°♂36'10	-1°53'50				
minimum elong	9382 May 27 21:31	12°♂02'16	1°53'36	superior conj	9383 May 08 12:31	22°♂01'18	-2°10'18
	9382 Jun 06 22:09	0°♂		minimum elong	9383 May 08 15:33	22°♂13'50	2°10'27
evening rise	9382 Jun 07 16:14	1°♂22'36			9383 May 13 07:08	0°♂	
asc. node	9382 Jun 11 17:30	8°♂44'45		evening rise	9383 May 21 04:30	13°♂33'33	
evening max el	9382 Jun 23 22:28	27°♂06'35	18°09'25	asc. node	9383 May 29 14:32	27°♂59'40	
	9382 Jun 27 23:48	0°♂			9383 May 30 20:10	0°♂	
retrograde	9382 Jun 30 19:50	0°♂36'04		evening max el	9383 Jun 07 11:35	10°♂18'03	18°05'42
evening set	9382 Jul 03 05:30	0°♂11'07		retrograde	9383 Jun 13 22:05	13°♂38'36	
	9382 Jul 03 17:26	30°♂♂		evening set	9383 Jun 16 15:24	13°♂01'44	
inferior conj	9382 Jul 10 04:49	25°♂21'45	1°38'56	inferior conj	9383 Jun 22 23:26	7°♂52'50	2°33'48
minimum elong	9382 Jul 10 07:32	25°♂15'36	1°37'46	minimum elong	9383 Jun 23 02:11	7°♂45'40	2°32'50
min. Earth dist.	9382 Jul 13 12:39	22°♂22'28	0.59900 AU	min. Earth dist.	9383 Jun 25 22:00	4°♂51'08	0.62152 AU
desc. node	9382 Jul 16 00:34	20°♂24'26		morning rise	9383 Jun 29 11:00	1°♂46'56	
morning rise	9382 Jul 17 06:36	19°♂35'06		desc. node	9383 Jul 02 21:40	29°♂56'11	
direct	9382 Jul 23 17:49	17°♂36'09			9383 Jul 02 17:24	30°♂♂	
morning max el	9382 Aug 07 01:54	25°♂29'25	27°43'03	direct	9383 Jul 06 04:19	29°♂22'16	
	9382 Aug 11 06:04	0°♂			9383 Jul 09 19:06	0°♂	
	9382 Aug 31 02:01	0°♂		morning max el	9383 Jul 20 07:38	7°♂23'58	27°55'56
asc. node	9382 Sep 07 17:16	14°♂58'07			9383 Aug 06 13:36	0°♂	
morning set	9382 Sep 08 02:57	15°♂48'37		morning set	9383 Aug 23 03:31	29°♂54'37	
max. Earth dist.	9382 Sep 14 09:03	29°♂19'37	1.31596 AU		9383 Aug 23 04:35	0°♂	
	9382 Sep 14 16:21	0°♂		asc. node	9383 Aug 25 14:09	4°♂58'10	
				max. Earth dist.	9383 Aug 28 15:35	11°♂30'04	1.32048 AU
superior conj	9382 Sep 15 06:37	1°♂19'04	1°09'46				
minimum elong	9382 Sep 15 04:23	1°♂06'37	1°09'24	superior conj	9383 Aug 30 16:04	15°♂54'07	0°49'16
evening rise	9382 Sep 22 00:12	16°♂06'45		minimum elong	9383 Aug 30 14:05	15°♂43'15	0°48'48
	9382 Sep 28 20:07	0°♂		evening rise	9383 Sep 06 11:28	0°♂47'10	
desc. node	9382 Oct 11 22:57	21°♂22'29			9383 Sep 06 02:42	0°♂	
	9382 Oct 19 08:44	0°♂			9383 Sep 22 08:51	0°♂	
evening max el	9382 Oct 19 21:34	0°♂30'53	25°49'46	desc. node	9383 Sep 28 20:07	8°♂20'31	
retrograde	9382 Nov 02 19:29	7°♂33'01		evening max el	9383 Oct 01 10:40	11°♂02'44	24°19'32
evening set	9382 Nov 09 01:11	6°♂01'49		retrograde	9383 Oct 15 04:05	17°♂55'40	
min. Earth dist.	9382 Nov 13 10:11	3°♂25'59	0.58109 AU	evening set	9383 Oct 20 05:53	16°♂58'50	
inferior conj	9382 Nov 16 11:53	1°♂15'00	-5°01'09	min. Earth dist.	9383 Oct 25 21:28	14°♂07'21	0.56296 AU
minimum elong	9382 Nov 16 18:57	1°♂02'24	4°59'30	inferior conj	9383 Oct 28 07:57	12°♂36'26	-5°37'36
	9382 Nov 18 06:46	30°♂♂		minimum elong	9383 Oct 28 10:25	12°♂32'36	5°37'16
morning rise	9382 Nov 24 15:03	26°♂52'49		morning rise	9383 Nov 05 17:02	8°♂35'51	
direct	9382 Nov 26 21:42	26°♂36'18		direct	9383 Nov 08 08:06	8°♂17'34	
asc. node	9382 Dec 04 17:06	0°♂04'59		morning max el	9383 Nov 18 04:40	12°♂57'38	19°42'14
	9382 Dec 04 14:51	0°♂		asc. node	9383 Nov 21 14:06	16°♂42'48	
morning max el	9382 Dec 05 09:31	0°♂43'07	18°42'42		9383 Nov 29 23:52	0°♂	
morning set	9382 Dec 21 15:10	26°♂45'33		morning set	9383 Dec 05 18:44	11°♂17'18	
	9382 Dec 23 07:03	0°♂					
superior conj	9382 Dec 30 07:14	13°♂29'44	1°02'18	superior conj	9383 Dec 13 15:39	27°♂09'16	1°22'47
minimum elong	9382 Dec 30 10:29	13°♂45'04	1°02'11	minimum elong	9383 Dec 13 18:23	27°♂22'46	1°22'49
max. Earth dist.	9383 Jan 06 12:53	26°♂39'45	1.39700 AU		9383 Dec 15 02:25	0°♂	
desc. node	9383 Jan 07 21:54	29°♂03'42		max. Earth dist.	9383 Dec 19 19:01	8°♂56'25	1.37518 AU
	9383 Jan 08 10:56	0°♂		evening rise	9383 Dec 23 12:22	15°♂42'28	
evening rise	9383 Jan 10 13:36	3°♂35'52		desc. node	9383 Dec 25 18:52	19°♂41'41	
	9383 Jan 27 12:23	0°♂			9383 Dec 31 22:49	0°♂	
evening max el	9383 Feb 14 12:57	22°♂43'05	24°05'47	evening max el	9384 Jan 22 03:04	0°♂	
					9384 Jan 28 02:10	6°♂31'26	25°21'31

retrograde	9384 Feb 09 05:16	13° K 31'43		retrograde	9385 Jan 22 12:54	27° \approx 33'23	
evening set	9384 Feb 15 01:21	11° K 06'49		evening set	9385 Jan 28 20:51	25° \approx 00'35	
asc. node	9384 Feb 17 13:05	8° K 36'40		min. Earth dist.	9385 Feb 02 00:07	20° \approx 44'30	0.66530 AU
min. Earth dist.	9384 Feb 19 10:56	6° K 16'16	0.67590 AU	asc. node	9385 Feb 03 10:15	19° \approx 01'20	
inferior conj	9384 Feb 20 17:14	4° K 38'22	1°01'17	inferior conj	9385 Feb 03 18:06	18° \approx 37'28	0°06'30
minimum elong	9384 Feb 20 15:49	4° K 42'58	1°00'53	minimum elong	9385 Feb 03 17:55	18° \approx 38'02	0°06'39
	9384 Feb 24 17:04	30° R \approx		transit middle	9385 Feb 03 17:55	18° \approx 38'02	0°06'39
morning rise	9384 Feb 26 06:40	28° \approx 44'32		transit begin	9385 Feb 03 15:17	18° \approx 46'01	
direct	9384 Feb 29 18:03	27° \approx 35'11		transit end	9385 Feb 03 20:33	18° \approx 30'03	
	9384 Mar 06 04:10	0° K		morning rise	9385 Feb 09 15:52	12° \approx 53'44	
morning max el	9384 Mar 07 18:42	1° K 27'18	19°16'28	direct	9385 Feb 12 16:28	12° \approx 02'16	
greatest brilliancy	9384 Mar 20 18:03	18° K 37'27	-0.7m	morning max el	9385 Feb 19 06:01	15° \approx 34'06	18°29'57
desc. node	9384 Mar 22 18:53	21° K 40'56			9385 Mar 02 00:53	0° K	
	9384 Mar 28 05:41	0° Y		desc. node	9385 Mar 09 15:44	11° K 56'23	
morning set	9384 Mar 31 20:20	5° Y 33'44		morning set	9385 Mar 11 16:54	15° K 10'59	
max. Earth dist.	9384 Apr 14 01:14	26° Y 07'50	1.45031 AU		9385 Mar 21 02:23	0° Y	
	9384 Apr 16 12:00	0° B					
superior conj	9384 Apr 17 09:45	1° B 26'17	-2°09'56	superior conj	9385 Mar 27 16:17	10° Y 18'15	-1°49'18
minimum elong	9384 Apr 17 05:58	1° B 11'14	2°09'58	minimum elong	9385 Mar 27 07:02	9° Y 42'05	1°48'34
evening rise	9384 May 01 19:18	24° B 48'08		max. Earth dist.	9385 Mar 27 19:34	10° Y 31'06	1.45566 AU
	9384 May 04 22:38	0° II			9385 Apr 09 05:25	0° B	
asc. node	9384 May 15 11:36	16° II 47'49		evening rise	9385 Apr 12 10:15	5° B 03'46	
evening max el	9384 May 21 00:52	23° II 45'01	18°20'36	greatest brilliancy	9385 Apr 21 13:56	19° B 31'29	-0.8m
retrograde	9384 May 27 10:32	27° II 10'55			9385 Apr 28 13:18	0° II	
evening set	9384 May 30 11:19	26° II 20'31		asc. node	9385 May 02 08:44	4° II 59'51	
inferior conj	9384 Jun 05 08:07	20° II 53'57	3°05'46	evening max el	9385 May 04 11:37	7° II 20'21	18°53'21
minimum elong	9384 Jun 05 09:54	20° II 48'47	3°05'12	retrograde	9385 May 11 05:12	11° II 04'20	
min. Earth dist.	9384 Jun 07 16:51	18° II 10'30	0.64216 AU	evening set	9385 May 14 13:44	9° II 59'20	
morning rise	9384 Jun 11 07:21	14° II 37'59		inferior conj	9385 May 20 03:00	4° II 16'51	3°19'26
direct	9384 Jun 17 23:40	11° II 57'05		minimum elong	9385 May 20 03:32	4° II 15'12	3°19'08
desc. node	9384 Jun 18 18:43	11° II 59'10		min. Earth dist.	9385 May 21 20:36	2° II 06'16	0.65942 AU
morning max el	9384 Jul 01 17:20	19° II 57'44	27°32'03		9385 May 23 15:28	30° R B	
	9384 Jul 10 07:15	0° B		morning rise	9385 May 25 16:42	27° B 57'23	
	9384 Jul 29 14:35	0° Q		direct	9385 Jun 01 02:30	25° B 11'47	
morning set	9384 Aug 05 20:07	13° Q 35'25		desc. node	9385 Jun 05 15:45	26° B 20'55	
max. Earth dist.	9384 Aug 10 15:04	23° Q 18'48	1.32987 AU		9385 Jun 11 00:13	0° II	
asc. node	9384 Aug 11 11:04	25° Q 03'23		morning max el	9385 Jun 14 04:00	2° II 57'51	26°37'32
					9385 Jul 04 13:48	0° B	
superior conj	9384 Aug 13 21:35	0° P 13'48	0°24'15	morning set	9385 Jul 20 01:29	26° B 41'26	
minimum elong	9384 Aug 13 20:25	0° P 07'36	0°23'51		9385 Jul 21 19:03	0° Q	
	9384 Aug 13 19:00	0° P		max. Earth dist.	9385 Jul 24 04:16	4° Q 39'57	1.34419 AU
evening rise	9384 Aug 20 22:55	15° P 25'03					
	9384 Aug 28 04:39	0° A		superior conj	9385 Jul 28 20:47	14° Q 10'55	-0°04'40
evening max el	9384 Sep 11 21:56	21° A 12'41	22°39'36	minimum elong	9385 Jul 28 21:03	14° Q 12'19	0°04'52
desc. node	9384 Sep 14 17:17	23° A 40'42		behind sun begin	9385 Jul 28 15:29	13° Q 43'28	
retrograde	9384 Sep 25 00:44	27° A 45'17		behind sun end	9385 Jul 29 02:37	14° Q 41'13	
evening set	9384 Sep 28 14:22	27° A 17'19		asc. node	9385 Jul 29 08:00	15° Q 09'05	
min. Earth dist.	9384 Oct 06 05:33	23° A 52'26	0.55052 AU	evening rise	9385 Aug 05 08:32	29° Q 53'49	
inferior conj	9384 Oct 07 09:43	23° A 12'21	-5°28'07		9385 Aug 05 09:43	0° P	
minimum elong	9384 Oct 07 04:20	23° A 20'01	5°27'24		9385 Aug 23 03:34	0° A	
morning rise	9384 Oct 15 20:10	19° A 24'20		evening max el	9385 Aug 24 16:41	1° A 37'18	21°06'21
direct	9384 Oct 19 00:25	19° A 01'14		desc. node	9385 Sep 01 14:29	6° A 51'19	
morning max el	9384 Oct 30 10:43	24° A 23'20	21°04'02	retrograde	9385 Sep 05 13:13	7° A 29'56	
	9384 Nov 04 09:56	0° M		evening set	9385 Sep 07 21:31	7° A 17'02	
asc. node	9384 Nov 07 11:05	4° M 21'04		inferior conj	9385 Sep 17 02:12	3° A 20'48	-4°22'19
morning set	9384 Nov 19 03:05	26° M 00'35		minimum elong	9385 Sep 16 16:28	3° A 34'31	4°19'43
	9384 Nov 21 00:59	0° J		min. Earth dist.	9385 Sep 17 14:01	3° A 04'06	0.54650 AU
superior conj	9384 Nov 26 11:12	11° J 19'50	1°35'12		9385 Sep 23 18:46	30° R P	
minimum elong	9384 Nov 26 12:48	11° J 28'08	1°35'24	morning rise	9385 Sep 25 11:50	29° P 26'55	
max. Earth dist.	9384 Dec 01 04:18	20° J 50'40	1.35513 AU	direct	9385 Sep 29 08:35	28° P 54'48	
evening rise	9384 Dec 05 05:18	28° J 36'40			9385 Oct 04 17:24	0° A	
	9384 Dec 05 23:11	0° Z		morning max el	9385 Oct 12 04:53	5° A 02'58	22°43'49
desc. node	9384 Dec 11 15:52	10° Z 10'31		asc. node	9385 Oct 25 08:03	22° A 45'20	
	9384 Dec 24 04:58	0° \approx			9385 Oct 29 06:31	0° M	
evening max el	9385 Jan 09 15:21	20° \approx 16'46	26°25'36	morning set	9385 Nov 03 14:03	10° M 48'55	
				superior conj	9385 Nov 10 14:25	25° M 51'00	1°40'24

minimum elong	9385 Nov 10 14:46	25° \mathbb{M} 52'50	1°40'38	superior conj	9386 Oct 25 22:36	10° \mathbb{M} 34'25	1°39'07
	9385 Nov 12 13:26	0° \mathbb{A}		minimum elong	9386 Oct 25 21:48	10° \mathbb{M} 30'01	1°39'16
max. Earth dist.	9385 Nov 13 20:59	2° \mathbb{A} 44'51	1.33851 AU	max. Earth dist.	9386 Oct 27 21:57	14° \mathbb{M} 51'47	1.32624 AU
evening rise	9385 Nov 18 12:36	12° \mathbb{A} 08'42		evening rise	9386 Nov 02 06:42	26° \mathbb{M} 09'02	
	9385 Nov 28 07:00	0° \mathbb{B}			9386 Nov 04 04:41	0° \mathbb{A}	
desc. node	9385 Nov 28 12:56	0° \mathbb{B} 25'07		desc. node	9386 Nov 15 10:01	20° \mathbb{A} 18'36	
	9385 Dec 19 10:59	0° \mathbb{A}			9386 Nov 21 16:24	0° \mathbb{B}	
evening max el	9385 Dec 23 04:35	3° \mathbb{A} 51'40	27°10'44	evening max el	9386 Dec 05 16:23	17° \mathbb{B} 03'52	27°29'51
retrograde	9386 Jan 05 14:43	11° \mathbb{A} 13'32		retrograde	9386 Dec 19 09:38	24° \mathbb{B} 22'50	
evening set	9386 Jan 12 08:38	8° \mathbb{A} 38'35		evening set	9386 Dec 26 10:02	21° \mathbb{B} 53'24	
min. Earth dist.	9386 Jan 16 06:30	4° \mathbb{A} 56'00	0.65112 AU	min. Earth dist.	9386 Dec 30 03:55	18° \mathbb{B} 41'31	0.63378 AU
inferior conj	9386 Jan 18 12:06	2° \mathbb{A} 27'06	-0°56'10	inferior conj	9387 Jan 01 20:29	16° \mathbb{B} 00'02	-2°05'23
minimum elong	9386 Jan 18 13:46	2° \mathbb{A} 22'26	0°55'11	minimum elong	9387 Jan 02 00:30	15° \mathbb{B} 49'58	2°03'27
	9386 Jan 20 19:10	30° \mathbb{K} \mathbb{B}		asc. node	9387 Jan 08 04:29	10° \mathbb{B} 57'07	
asc. node	9386 Jan 21 07:23	29° \mathbb{B} 30'13		morning rise	9387 Jan 08 16:59	10° \mathbb{B} 44'12	
morning rise	9386 Jan 24 20:22	26° \mathbb{B} 55'46		direct	9387 Jan 11 01:50	10° \mathbb{B} 17'10	
direct	9386 Jan 27 11:58	26° \mathbb{B} 18'27		morning max el	9387 Jan 17 15:22	13° \mathbb{B} 40'23	17°47'42
morning max el	9386 Feb 02 21:53	29° \mathbb{B} 41'12	18°00'10		9387 Jan 28 22:46	0° \mathbb{A}	
	9386 Feb 03 05:23	0° \mathbb{A}		morning set	9387 Feb 02 23:17	8° \mathbb{A} 38'29	
morning set	9386 Feb 20 18:57	26° \mathbb{A} 16'36		desc. node	9387 Feb 11 09:28	23° \mathbb{A} 02'31	
	9386 Feb 23 01:13	0° \mathbb{K}					
desc. node	9386 Feb 24 12:36	2° \mathbb{K} 25'09		superior conj	9387 Feb 15 07:27	29° \mathbb{A} 32'55	-0°28'40
				minimum elong	9387 Feb 15 04:24	29° \mathbb{A} 20'23	0°28'02
superior conj	9386 Mar 07 02:10	19° \mathbb{K} 26'42	-1°12'17		9387 Feb 15 14:02	0° \mathbb{K}	
minimum elong	9386 Mar 06 18:07	18° \mathbb{K} 54'48	1°11'12	max. Earth dist.	9387 Feb 21 09:31	9° \mathbb{K} 24'12	1.44446 AU
max. Earth dist.	9386 Mar 10 15:08	25° \mathbb{K} 01'56	1.45361 AU	evening rise	9387 Mar 02 16:36	23° \mathbb{K} 56'46	
	9386 Mar 13 19:18	0° \mathbb{Y}			9387 Mar 06 15:46	0° \mathbb{Y}	
evening rise	9386 Mar 23 05:20	14° \mathbb{Y} 35'47			9387 Mar 27 15:53	0° \mathbb{B}	
	9386 Apr 02 06:56	0° \mathbb{B}		evening max el	9387 Mar 31 18:45	4° \mathbb{B} 40'44	20°46'02
greatest brilliancy	9386 Apr 06 01:48	5° \mathbb{B} 39'52	-0.7m	asc. node	9387 Apr 06 03:03	8° \mathbb{B} 48'21	
evening max el	9386 Apr 17 17:57	21° \mathbb{B} 00'02	19°42'36	retrograde	9387 Apr 09 01:34	9° \mathbb{B} 31'27	
asc. node	9386 Apr 19 05:53	22° \mathbb{B} 24'52		evening set	9387 Apr 13 04:04	7° \mathbb{B} 55'40	
retrograde	9386 Apr 25 03:00	25° \mathbb{B} 13'06		inferior conj	9387 Apr 18 11:10	1° \mathbb{B} 46'08	3°05'46
evening set	9386 Apr 28 20:01	23° \mathbb{B} 52'51		minimum elong	9387 Apr 18 09:37	1° \mathbb{B} 51'27	3°05'25
inferior conj	9386 May 04 04:54	17° \mathbb{B} 55'58	3°18'34	min. Earth dist.	9387 Apr 19 00:03	1° \mathbb{B} 01'44	0.68098 AU
minimum elong	9386 May 04 04:15	17° \mathbb{B} 58'07	3°18'19		9387 Apr 19 18:07	30° \mathbb{K} \mathbb{Y}	
min. Earth dist.	9386 May 05 07:40	16° \mathbb{B} 26'50	0.67246 AU	morning rise	9387 Apr 23 14:58	25° \mathbb{Y} 30'18	
morning rise	9386 May 09 12:10	11° \mathbb{B} 37'09		direct	9387 Apr 29 01:27	23° \mathbb{Y} 05'43	
direct	9386 May 15 11:30	8° \mathbb{B} 57'48		morning max el	9387 May 09 23:01	29° \mathbb{Y} 36'17	23°53'48
desc. node	9386 May 23 12:44	12° \mathbb{B} 32'04		desc. node	9387 May 10 09:39	0° \mathbb{B} 03'29	
morning max el	9386 May 27 13:50	16° \mathbb{B} 13'06	25°21'26		9387 May 10 08:18	0° \mathbb{B}	
	9386 Jun 07 23:17	0° \mathbb{I}			9387 Jun 01 18:57	0° \mathbb{I}	
	9386 Jun 27 11:56	0° \mathbb{E}		morning set	9387 Jun 14 09:04	20° \mathbb{I} 23'18	
morning set	9386 Jul 02 15:31	9° \mathbb{E} 02'00		max. Earth dist.	9387 Jun 18 03:51	26° \mathbb{I} 58'48	1.38495 AU
max. Earth dist.	9386 Jul 06 06:57	15° \mathbb{E} 43'53	1.36304 AU		9387 Jun 19 20:25	0° \mathbb{E}	
superior conj	9386 Jul 12 10:55	27° \mathbb{E} 38'44	-0°36'20	superior conj	9387 Jun 25 12:23	10° \mathbb{E} 27'59	-1°08'54
minimum elong	9386 Jul 12 13:09	27° \mathbb{E} 49'52	0°36'12	minimum elong	9387 Jun 25 16:49	10° \mathbb{E} 48'59	1°08'29
	9386 Jul 13 15:13	0° \mathbb{Q}		asc. node	9387 Jul 03 01:56	25° \mathbb{E} 07'20	
asc. node	9386 Jul 16 04:57	5° \mathbb{Q} 11'45		evening rise	9387 Jul 04 13:05	27° \mathbb{E} 59'45	
evening rise	9386 Jul 20 14:09	14° \mathbb{Q} 07'51			9387 Jul 05 13:41	0° \mathbb{Q}	
	9386 Jul 28 20:46	0° \mathbb{M}		evening max el	9387 Jul 20 21:10	24° \mathbb{Q} 32'44	18°54'45
evening max el	9386 Aug 07 00:34	12° \mathbb{M} 42'19	19°50'09	retrograde	9387 Jul 29 10:36	28° \mathbb{Q} 47'58	
retrograde	9386 Aug 17 04:23	17° \mathbb{M} 43'51		evening set	9387 Jul 31 09:03	28° \mathbb{Q} 35'46	
evening set	9386 Aug 19 01:15	17° \mathbb{M} 34'24		desc. node	9387 Aug 06 08:46	25° \mathbb{Q} 50'16	
desc. node	9386 Aug 19 11:38	17° \mathbb{M} 29'37		inferior conj	9387 Aug 08 14:25	24° \mathbb{Q} 18'10	-0°41'17
inferior conj	9386 Aug 27 23:43	13° \mathbb{M} 33'14	-2°35'39	minimum elong	9387 Aug 08 12:41	24° \mathbb{Q} 21'15	0°40'48
minimum elong	9386 Aug 27 16:41	13° \mathbb{M} 44'01	2°33'11	min. Earth dist.	9387 Aug 11 15:14	22° \mathbb{Q} 09'59	0.56616 AU
min. Earth dist.	9386 Aug 30 00:41	12° \mathbb{M} 18'20	0.55209 AU	morning rise	9387 Aug 16 13:05	19° \mathbb{Q} 22'18	
morning rise	9386 Sep 05 06:20	9° \mathbb{M} 13'59		direct	9387 Aug 22 00:23	18° \mathbb{Q} 11'03	
direct	9386 Sep 09 22:08	8° \mathbb{M} 26'19		morning max el	9387 Sep 05 06:25	25° \mathbb{Q} 32'22	26°07'24
morning max el	9386 Sep 23 16:55	15° \mathbb{M} 15'37	24°30'27		9387 Sep 09 10:51	0° \mathbb{M}	
	9386 Oct 05 09:38	0° \mathbb{E}			9387 Sep 28 11:50	0° \mathbb{E}	
asc. node	9386 Oct 12 04:57	11° \mathbb{E} 44'19		asc. node	9387 Sep 29 01:51	1° \mathbb{E} 09'11	
morning set	9386 Oct 19 01:50	25° \mathbb{E} 37'09		morning set	9387 Oct 03 12:48	10° \mathbb{E} 20'47	
	9386 Oct 21 02:39	0° \mathbb{M}					
				superior conj	9387 Oct 10 09:34	25° \mathbb{E} 23'34	1°31'57

minimum elong	9387 Oct 10 07:54	25°♄14'19	1°31'55	morning set	9388 Sep 16 21:12	24°♄54'03	
max. Earth dist.	9387 Oct 11 05:05	27°♄11'37	1.31857 AU		9388 Sep 19 06:21	0°♄	
	9387 Oct 12 11:37	0°♄					
evening rise	9387 Oct 17 08:36	10°♄29'34		superior conj	9388 Sep 23 21:21	10°♄11'34	1°19'22
	9387 Oct 27 10:50	0°♄		minimum elong	9388 Sep 23 19:11	9°♄59'32	1°19'06
desc. node	9387 Nov 02 07:07	9°♄42'14		max. Earth dist.	9388 Sep 23 14:53	9°♄35'39	1.31554 AU
evening max el	9387 Nov 18 00:14	29°♄39'53	27°17'18	evening rise	9388 Sep 30 15:45	25°♄02'18	
	9387 Nov 18 08:50	0°♄			9388 Oct 03 00:31	0°♄	
retrograde	9387 Dec 01 20:50	6°♄52'35		desc. node	9388 Oct 19 04:14	28°♄23'18	
evening set	9387 Dec 08 21:45	4°♄37'47			9388 Oct 20 07:36	0°♄	
min. Earth dist.	9387 Dec 12 14:45	1°♄50'21	0.61398 AU	evening max el	9388 Oct 30 01:16	11°♄27'19	26°30'44
	9387 Dec 14 16:56	30°♄♂		retrograde	9388 Nov 12 23:19	18°♄33'53	
inferior conj	9387 Dec 15 16:06	29°♄08'15	-3°17'54	evening set	9388 Nov 19 15:31	16°♄43'53	
minimum elong	9387 Dec 15 22:30	28°♄54'04	3°15'21	min. Earth dist.	9388 Nov 23 14:50	14°♄08'47	0.59295 AU
morning rise	9387 Dec 23 01:39	24°♄11'22		inferior conj	9388 Nov 26 19:22	11°♄41'18	-4°27'13
direct	9387 Dec 25 06:30	23°♄51'01		minimum elong	9388 Nov 27 03:01	11°♄26'31	4°24'55
asc. node	9387 Dec 26 01:31	23°♄53'44		morning rise	9388 Dec 04 17:02	7°♄06'24	
morning max el	9388 Jan 01 07:18	27°♄23'42	17°53'24	direct	9388 Dec 06 21:33	6°♄49'28	
	9388 Jan 03 15:17	0°♄		asc. node	9388 Dec 11 22:32	8°♄24'50	
morning set	9388 Jan 16 23:26	21°♄56'32		morning max el	9388 Dec 14 18:06	10°♄40'53	18°18'41
	9388 Jan 21 10:15	0°♄			9388 Dec 27 10:45	0°♄	
				morning set	9388 Dec 30 13:29	5°♄52'36	
superior conj	9388 Jan 27 14:11	10°♄52'24	0°12'33				
minimum elong	9388 Jan 27 15:17	10°♄57'13	0°12'38	superior conj	9389 Jan 08 20:03	23°♄17'27	0°46'35
behind sun begin	9388 Jan 27 10:07	10°♄34'50		minimum elong	9389 Jan 08 23:05	23°♄31'13	0°46'27
behind sun end	9388 Jan 27 20:28	11°♄19'34			9389 Jan 12 13:43	0°♄	
desc. node	9388 Jan 29 06:23	13°♄45'05		desc. node	9389 Jan 15 03:18	4°♄28'49	
max. Earth dist.	9388 Feb 04 00:21	23°♄22'05	1.42916 AU	max. Earth dist.	9389 Jan 16 09:59	6°♄40'27	1.40941 AU
	9388 Feb 08 02:47	0°♄		evening rise	9389 Jan 21 00:29	14°♄22'16	
evening rise	9388 Feb 10 11:24	3°♄44'12			9389 Jan 30 22:54	0°♄	
	9388 Feb 28 01:19	0°♄			9389 Feb 22 05:15	0°♄	
evening max el	9388 Mar 13 14:11	18°♄22'25	22°00'02	evening max el	9389 Feb 24 05:37	2°♄06'42	23°19'46
retrograde	9388 Mar 22 23:07	23°♄55'14		retrograde	9389 Mar 06 18:16	8°♄20'16	
asc. node	9388 Mar 23 00:10	23°♄55'13		asc. node	9389 Mar 09 21:18	7°♄32'42	
evening set	9388 Mar 27 12:10	22°♄04'06		evening set	9389 Mar 11 18:49	6°♄14'40	
inferior conj	9388 Apr 01 19:39	15°♄44'20	2°42'42	min. Earth dist.	9389 Mar 16 16:28	0°♄29'15	0.68464 AU
minimum elong	9388 Apr 01 17:33	15°♄51'36	2°42'10	inferior conj	9389 Mar 17 04:27	29°♄47'59	2°10'18
min. Earth dist.	9388 Apr 01 19:41	15°♄44'11	0.68498 AU	minimum elong	9389 Mar 17 02:14	29°♄55'37	2°09'39
morning rise	9388 Apr 06 22:48	9°♄32'51			9389 Mar 17 00:57	30°♄♂	
direct	9388 Apr 11 19:28	7°♄28'15		morning rise	9389 Mar 22 09:36	23°♄42'03	
morning max el	9388 Apr 21 10:06	13°♄07'24	22°24'22	direct	9389 Mar 26 16:35	21°♄59'28	
desc. node	9388 Apr 26 06:34	18°♄33'23		morning max el	9389 Apr 04 02:26	26°♄49'28	21°01'21
	9388 May 04 22:23	0°♄			9389 Apr 07 00:44	0°♄	
	9388 May 24 16:57	0°♄		desc. node	9389 Apr 13 03:29	7°♄46'05	
morning set	9388 May 25 01:02	0°♄32'51			9389 Apr 28 10:27	0°♄	
max. Earth dist.	9388 May 30 01:56	8°♄54'10	1.40753 AU	morning set	9389 May 04 14:37	9°♄31'44	
				max. Earth dist.	9389 May 12 05:40	21°♄42'09	1.42802 AU
					9389 May 17 06:09	0°♄	
superior conj	9388 Jun 06 20:51	22°♄27'59	-1°39'13				
minimum elong	9388 Jun 07 02:52	22°♄54'58	1°38'48				
	9388 Jun 11 00:12	0°♄		superior conj	9389 May 19 07:47	3°♄29'27	-2°02'30
evening rise	9388 Jun 17 01:56	11°♄20'24		minimum elong	9389 May 19 13:04	3°♄51'54	2°02'26
asc. node	9388 Jun 18 22:55	14°♄51'07		evening rise	9389 May 31 00:35	24°♄00'00	
	9388 Jun 27 15:13	0°♄			9389 Jun 03 09:11	0°♄	
evening max el	9388 Jul 03 03:10	7°♄01'46	18°20'12	asc. node	9389 Jun 05 19:57	4°♄18'26	
retrograde	9388 Jul 10 12:02	10°♄43'54		evening max el	9389 Jun 16 14:45	20°♄00'32	18°05'34
evening set	9388 Jul 12 17:07	10°♄24'41		retrograde	9389 Jun 23 06:25	23°♄24'43	
inferior conj	9388 Jul 20 02:51	5°♄46'52	0°55'21	evening set	9389 Jun 25 19:13	22°♄55'08	
minimum elong	9388 Jul 20 04:40	5°♄43'04	0°54'26	inferior conj	9389 Jul 02 11:33	17°♄57'25	2°05'16
desc. node	9388 Jul 23 05:54	3°♄11'37		minimum elong	9389 Jul 02 14:28	17°♄50'23	2°04'08
min. Earth dist.	9388 Jul 23 11:50	2°♄59'52	0.58606 AU	min. Earth dist.	9389 Jul 05 16:21	14°♄54'00	0.60855 AU
morning rise	9388 Jul 27 12:51	0°♄15'46		morning rise	9389 Jul 09 07:07	12°♄01'00	
	9388 Jul 28 01:01	30°♄♂		desc. node	9389 Jul 10 03:00	11°♄30'18	
direct	9388 Aug 02 16:48	28°♄34'37		direct	9389 Jul 15 21:45	9°♄50'01	
	9388 Aug 08 13:13	0°♄		morning max el	9389 Jul 30 04:41	17°♄49'00	27°53'19
morning max el	9388 Aug 17 02:09	6°♄19'18	27°18'24		9389 Aug 09 08:45	0°♄	
	9388 Sep 03 17:46	0°♄			9389 Aug 27 11:05	0°♄	
asc. node	9388 Sep 14 22:43	20°♄52'05		morning set	9389 Sep 01 01:14	9°♄11'44	

asc. node	9389 Sep 01 19:38	10° \cap 47'23			9390 Aug 19 07:03	0° \cap	
max. Earth dist.	9389 Sep 06 23:33	21° \cap 53'15	1.31724 AU	asc. node	9390 Aug 19 16:33	0° \cap 49'52	
				max. Earth dist.	9390 Aug 21 03:14	3° \cap 53'37	1.32379 AU
superior conj	9389 Sep 08 08:12	24° \cap 53'03	1°01'39	superior conj	9390 Aug 23 16:13	9° \cap 22'00	0°39'11
minimum elong	9389 Sep 08 06:00	24° \cap 40'54	1°01'15	minimum elong	9390 Aug 23 14:31	9° \cap 12'44	0°38'44
	9389 Sep 10 15:42	0° $\underline{\cap}$		evening rise	9390 Aug 30 13:36	24° \cap 20'52	
evening rise	9389 Sep 15 02:03	9° $\underline{\cap}$ 41'23			9390 Sep 02 06:02	0° $\underline{\cap}$	
	9389 Sep 25 09:38	0° \cap			9390 Sep 20 15:28	0° \cap	
desc. node	9389 Oct 06 01:23	16° \cap 05'19		desc. node	9390 Sep 22 22:33	2° \cap 25'28	
evening max el	9389 Oct 11 18:15	22° \cap 23'56	25°13'38	evening max el	9390 Sep 23 05:45	2° \cap 43'02	23°37'21
retrograde	9389 Oct 25 15:26	29° \cap 23'37		retrograde	9390 Oct 06 18:55	9° \cap 29'06	
evening set	9389 Oct 31 10:37	28° \cap 06'56		evening set	9390 Oct 11 05:24	8° \cap 46'11	
min. Earth dist.	9389 Nov 05 06:10	25° \cap 26'35	0.57290 AU	min. Earth dist.	9390 Oct 17 15:55	5° \cap 42'18	0.55675 AU
inferior conj	9389 Nov 08 03:16	23° \cap 30'42	-5°20'58	inferior conj	9390 Oct 19 15:01	4° \cap 32'16	-5°40'19
minimum elong	9389 Nov 08 08:58	23° \cap 21'06	5°19'55	minimum elong	9390 Oct 19 14:14	4° \cap 33'26	5°40'07
morning rise	9389 Nov 16 09:38	19° \cap 18'19		morning rise	9390 Oct 28 01:02	0° \cap 38'18	
direct	9389 Nov 18 18:55	19° \cap 01'36		direct	9390 Oct 30 21:10	0° \cap 18'20	
morning max el	9389 Nov 27 20:02	23° \cap 21'34	19°05'12	morning max el	9390 Nov 10 09:45	5° \cap 16'01	20°14'21
asc. node	9389 Nov 28 19:32	24° \cap 20'50		asc. node	9390 Nov 15 16:33	11° \cap 26'28	
	9389 Dec 03 06:27	0° \sphericalcap			9390 Nov 26 09:16	0° \sphericalcap	
morning set	9389 Dec 14 13:05	20° \sphericalcap 14'00		morning set	9390 Nov 28 19:02	4° \sphericalcap 52'03	
	9389 Dec 19 11:20	0° \sphericalcap					
superior conj	9389 Dec 22 20:10	6° \sphericalcap 33'41	1°12'01	superior conj	9390 Dec 06 09:50	20° \sphericalcap 28'11	1°28'59
minimum elong	9389 Dec 22 23:19	6° \sphericalcap 48'49	1°11'57	minimum elong	9390 Dec 06 12:08	20° \sphericalcap 39'46	1°29'05
max. Earth dist.	9389 Dec 29 15:52	19° \sphericalcap 15'27	1.38765 AU		9390 Dec 11 05:56	0° \sphericalcap	
evening rise	9390 Jan 02 11:21	25° \sphericalcap 58'01		max. Earth dist.	9390 Dec 11 22:50	1° \sphericalcap 20'49	1.36637 AU
desc. node	9390 Jan 02 00:15	25° \sphericalcap 10'02		evening rise	9390 Dec 15 18:25	8° \sphericalcap 27'05	
	9390 Jan 04 20:11	0° \approx		desc. node	9390 Dec 19 21:13	15° \sphericalcap 45'11	
	9390 Jan 24 13:50	0° X			9390 Dec 28 13:54	0° \approx	
evening max el	9390 Feb 06 19:10	15° X 54'16	24°39'01	evening max el	9391 Jan 20 08:35	29° \approx 43'34	25°50'40
retrograde	9390 Feb 18 09:40	22° X 40'50			9391 Jan 20 15:23	0° X	
evening set	9390 Feb 23 22:27	20° X 22'28		retrograde	9391 Feb 01 20:19	6° X 51'48	
asc. node	9390 Feb 24 18:28	19° X 36'50		evening set	9391 Feb 07 21:28	4° X 23'18	
min. Earth dist.	9390 Feb 28 12:07	15° X 11'40	0.68020 AU	asc. node	9391 Feb 11 15:37	0° X 26'31	
inferior conj	9390 Mar 01 11:42	13° X 53'10	1°29'00	min. Earth dist.	9391 Feb 12 04:22	29° \approx 47'13	0.67188 AU
minimum elong	9390 Mar 01 09:50	13° X 59'23	1°28'26		9391 Feb 12 00:15	30° R	
morning rise	9390 Mar 06 21:23	7° X 54'11		inferior conj	9391 Feb 13 15:32	27° \approx 56'28	0°39'05
direct	9390 Mar 10 15:33	6° X 33'13		minimum elong	9391 Feb 13 14:33	27° \approx 59'32	0°38'53
morning max el	9390 Mar 18 02:13	10° X 43'06	19°50'23	morning rise	9391 Feb 19 08:12	22° \approx 06'23	
greatest brilliancy	9390 Mar 31 02:56	27° X 38'55	-0.6m	direct	9391 Feb 22 14:51	21° \approx 04'54	
desc. node	9390 Mar 31 00:21	27° X 29'26		morning max el	9391 Mar 01 09:45	24° \approx 46'53	18°54'35
	9390 Apr 01 17:19	0° Y			9391 Mar 05 21:28	0° X	
morning set	9390 Apr 13 12:59	17° Y 53'49		desc. node	9391 Mar 17 21:13	17° X 35'25	
	9390 Apr 21 07:45	0° B		morning set	9391 Mar 23 19:47	26° X 48'31	
max. Earth dist.	9390 Apr 24 16:25	5° B 18'44	1.44398 AU		9391 Mar 25 20:59	0° Y	
				max. Earth dist.	9391 Apr 07 09:13	19° Y 31'54	1.45358 AU
superior conj	9390 Apr 29 18:16	13° B 27'24	-2°12'32	superior conj	9391 Apr 09 07:33	22° Y 33'55	-2°03'37
minimum elong	9390 Apr 29 18:42	13° B 29'12	2°12'44	minimum elong	9391 Apr 09 00:49	22° Y 07'25	2°03'22
	9390 May 09 18:16	0° II			9391 Apr 14 00:31	0° B	
evening rise	9390 May 13 04:11	5° II 47'13		evening rise	9391 Apr 24 08:50	16° B 36'09	
asc. node	9390 May 23 17:01	23° II 22'47			9391 May 02 15:32	0° II	
	9390 May 28 06:55	0° E		asc. node	9391 May 10 14:08	11° II 56'50	
evening max el	9390 May 31 04:20	3° E 19'22	18°09'53	evening max el	9391 May 14 16:55	16° II 50'58	18°32'26
retrograde	9390 Jun 06 13:20	6° E 40'22		retrograde	9391 May 21 04:46	20° II 22'36	
evening set	9390 Jun 09 09:50	5° E 57'57		evening set	9391 May 24 08:54	19° II 25'57	
inferior conj	9390 Jun 15 12:38	0° E 41'39	2°49'50	inferior conj	9391 May 30 02:04	13° II 52'28	3°13'30
minimum elong	9390 Jun 15 15:03	0° E 35'03	2°49'03	minimum elong	9391 May 30 03:20	13° II 48'41	3°13'05
	9390 Jun 16 03:52	30° R II		min. Earth dist.	9391 Jun 01 04:23	11° II 21'45	0.65009 AU
min. Earth dist.	9390 Jun 18 05:48	27° II 45'14	0.63065 AU	morning rise	9391 Jun 04 20:54	7° II 34'39	
morning rise	9390 Jun 21 18:38	24° II 30'34		direct	9391 Jun 11 11:11	4° II 50'22	
desc. node	9390 Jun 27 00:06	22° II 04'43		desc. node	9391 Jun 13 21:09	5° II 09'46	
direct	9390 Jun 28 12:30	21° II 57'15		morning max el	9391 Jun 24 22:26	12° II 45'45	27°12'02
morning max el	9390 Jul 12 12:14	0° E 00'13	27°49'55		9391 Jul 08 18:08	0° E	
	9390 Jul 12 12:09	0° E			9391 Jul 26 23:54	0° Ω	
	9390 Aug 03 09:33	0° Ω		morning set	9391 Jul 30 10:56	6° Ω 33'49	
morning set	9390 Aug 15 22:43	23° Ω 07'20					

max. Earth dist.	9391 Aug 03 22:32	15°Ω29'50	1.33538 AU		9392 Jul 01 07:10	0°☿	
asc. node	9391 Aug 06 13:29	20°Ω55'32		morning set	9392 Jul 12 10:21	19°☿22'12	
				max. Earth dist.	9392 Jul 16 07:27	26°☿43'31	1.35174 AU
superior conj	9391 Aug 07 19:21	23°Ω32'40	0°12'26		9392 Jul 17 23:39	0°Ω	
minimum elong	9391 Aug 07 18:44	23°Ω29'22	0°12'05				
behind sun begin	9391 Aug 07 15:02	23°Ω09'51		superior conj	9392 Jul 21 15:05	7°Ω18'31	-0°17'50
behind sun end	9391 Aug 07 22:25	23°Ω48'54		minimum elong	9392 Jul 21 16:08	7°Ω23'52	0°17'54
	9391 Aug 10 20:07	0°☿		asc. node	9392 Jul 23 10:25	11°Ω00'41	
evening rise	9391 Aug 15 00:31	8°☿55'24		evening rise	9392 Jul 29 08:46	23°Ω19'18	
	9391 Aug 26 00:30	0°Ω			9392 Aug 01 15:37	0°☿	
evening max el	9391 Sep 04 19:13	12°Ω54'47	21°58'22	evening max el	9392 Aug 16 19:06	23°☿34'17	20°31'27
desc. node	9391 Sep 09 19:45	16°Ω54'18		desc. node	9392 Aug 26 16:56	29°☿02'07	
retrograde	9391 Sep 17 10:36	19°Ω12'02		retrograde	9392 Aug 27 22:50	29°☿06'07	
evening set	9391 Sep 20 10:11	18°Ω52'10		evening set	9392 Aug 30 00:11	28°☿55'38	
inferior conj	9391 Sep 29 11:12	14°Ω52'40	-5°06'51	inferior conj	9392 Sep 08 03:59	24°☿58'35	-3°40'15
minimum elong	9391 Sep 29 03:07	15°Ω03'59	5°05'19	minimum elong	9392 Sep 07 18:41	25°☿12'02	3°37'20
min. Earth dist.	9391 Sep 28 23:33	15°Ω08'59	0.54764 AU	min. Earth dist.	9392 Sep 09 08:28	24°☿17'22	0.54767 AU
morning rise	9391 Oct 07 21:27	11°Ω04'59		morning rise	9392 Sep 16 12:48	20°☿56'22	
direct	9391 Oct 11 08:45	10°Ω38'27		direct	9392 Sep 20 17:14	20°☿18'49	
morning max el	9391 Oct 23 10:05	16°Ω19'50	21°44'50	morning max el	9392 Oct 04 00:47	26°☿44'53	23°29'24
asc. node	9391 Nov 02 13:31	29°Ω25'44			9392 Oct 07 04:16	0°Ω	
	9391 Nov 02 21:52	0°☿		asc. node	9392 Oct 19 10:27	18°Ω06'00	
morning set	9391 Nov 13 04:47	19°☿38'29			9392 Oct 25 13:15	0°☿	
	9391 Nov 18 02:16	0°☿		morning set	9392 Oct 27 16:18	4°☿27'36	
superior conj	9391 Nov 20 09:01	4°☿48'34	1°38'14	superior conj	9392 Nov 03 14:38	19°☿25'54	1°40'36
minimum elong	9391 Nov 20 10:05	4°☿54'11	1°38'28	minimum elong	9392 Nov 03 14:28	19°☿24'59	1°40'50
max. Earth dist.	9391 Nov 24 11:21	13°☿14'44	1.34758 AU	max. Earth dist.	9392 Nov 06 07:42	25°☿13'48	1.33269 AU
evening rise	9391 Nov 28 17:55	21°☿38'40			9392 Nov 08 14:27	0°☿	
	9391 Dec 03 06:03	0°☿		evening rise	9392 Nov 11 06:10	5°☿23'28	
desc. node	9391 Dec 06 18:14	6°☿08'55		desc. node	9392 Nov 22 15:18	26°☿15'30	
	9391 Dec 22 09:48	0°☿			9392 Nov 24 22:02	0°☿	
evening max el	9392 Jan 02 22:02	13°☿26'28	26°47'29	evening max el	9392 Dec 15 10:43	26°☿52'36	27°22'18
retrograde	9392 Jan 16 01:18	20°☿45'36			9392 Dec 19 01:14	0°☿	
evening set	9392 Jan 22 13:56	18°☿11'10		retrograde	9392 Dec 29 00:12	4°☿14'01	
min. Earth dist.	9392 Jan 26 14:52	14°☿09'37	0.65980 AU	evening set	9393 Jan 04 21:37	1°☿40'03	
inferior conj	9392 Jan 28 13:47	11°☿52'31	-0°19'08		9393 Jan 06 21:20	30°☿☿	
minimum elong	9392 Jan 28 14:18	11°☿50'58	0°18'38	min. Earth dist.	9393 Jan 08 17:27	28°☿11'23	0.64417 AU
asc. node	9392 Jan 29 12:46	10°☿45'55		inferior conj	9393 Jan 11 04:00	25°☿35'38	-1°24'49
morning rise	9392 Feb 03 15:45	6°☿13'41		minimum elong	9393 Jan 11 06:37	25°☿28'38	1°23'26
direct	9392 Feb 06 12:24	5°☿28'34		asc. node	9393 Jan 15 09:52	21°☿33'36	
morning max el	9392 Feb 12 23:19	8°☿54'49	18°15'10	morning rise	9393 Jan 17 17:19	20°☿10'48	
	9392 Feb 27 19:20	0°☿		direct	9393 Jan 20 05:48	19°☿38'20	
morning set	9392 Mar 03 04:47	7°☿03'50		morning max el	9393 Jan 26 16:17	22°☿59'51	17°52'44
desc. node	9392 Mar 03 18:03	7°☿57'12			9393 Feb 01 06:11	0°☿	
	9392 Mar 17 15:04	0°☿		morning set	9393 Feb 12 18:41	18°☿44'10	
				desc. node	9393 Feb 18 14:53	28°☿30'10	
superior conj	9392 Mar 18 13:03	1°☿26'13	-1°35'04		9393 Feb 19 12:37	0°☿	
minimum elong	9392 Mar 18 03:30	0°☿48'47	1°34'05				
max. Earth dist.	9392 Mar 20 04:56	4°☿02'28	1.45580 AU	superior conj	9393 Feb 26 05:45	10°☿55'54	-0°53'58
evening rise	9392 Apr 03 14:24	26°☿30'47		minimum elong	9393 Feb 25 23:42	10°☿31'35	0°53'01
	9392 Apr 05 20:00	0°☿		max. Earth dist.	9393 Mar 03 00:24	18°☿32'09	1.45057 AU
greatest brilliancy	9392 Apr 14 21:33	14°☿02'32	-0.7m		9393 Mar 10 08:33	0°☿	
asc. node	9392 Apr 26 11:15	29°☿50'30		evening rise	9393 Mar 14 04:18	5°☿53'26	
	9392 Apr 26 14:51	0°☿		greatest brilliancy	9393 Mar 29 03:06	28°☿23'29	-0.6m
evening max el	9392 Apr 27 01:58	0°☿28'40	19°12'20		9393 Mar 30 05:46	0°☿	
retrograde	9392 May 04 01:08	4°☿23'41		evening max el	9393 Apr 10 05:52	14°☿08'29	20°07'57
evening set	9392 May 07 13:15	3°☿12'03		asc. node	9393 Apr 13 08:23	16°☿51'10	
	9392 May 10 22:01	30°☿☿		retrograde	9393 Apr 17 23:37	18°☿37'10	
inferior conj	9392 May 13 00:17	27°☿23'01	3°20'39	evening set	9393 Apr 21 20:30	17°☿10'18	
minimum elong	9392 May 13 00:17	27°☿23'00	3°20'24	inferior conj	9393 Apr 27 04:19	11°☿07'31	3°14'30
min. Earth dist.	9392 May 14 11:22	25°☿29'43	0.66555 AU	minimum elong	9393 Apr 27 03:15	11°☿11'08	3°14'13
morning rise	9392 May 18 10:54	21°☿03'34		min. Earth dist.	9393 Apr 28 00:59	9°☿57'22	0.67662 AU
direct	9392 May 24 16:31	18°☿19'45		morning rise	9393 May 02 09:45	4°☿49'34	
desc. node	9392 May 30 18:09	20°☿22'06		direct	9393 May 08 03:39	2°☿15'51	
morning max el	9392 Jun 06 08:59	25°☿54'06	26°07'16	desc. node	9393 May 17 15:06	7°☿10'34	
	9392 Jun 10 03:14	0°☿		morning max el	9393 May 19 18:35	9°☿14'06	24°44'57

	9393 Jun 05 03:19	0°♂	direct	9394 Apr 21 19:37	16°♂31'28	
	9393 Jun 23 22:13	0°♂	morning max el	9394 May 02 04:11	22°♂41'06	23°15'20
morning set	9393 Jun 24 16:19	1°♂19'28	desc. node	9394 May 04 12:00	25°♂09'43	
max. Earth dist.	9393 Jun 28 06:59	7°♂48'46 1.37208 AU		9394 May 08 13:44	0°♂	
				9394 May 29 11:17	0°♂	
superior conj	9393 Jul 05 00:14	20°♂30'43 -0°50'12	morning set	9394 Jun 05 23:31	12°♂12'08	
minimum elong	9393 Jul 05 03:25	20°♂46'12 0°49'56	max. Earth dist.	9394 Jun 10 03:01	19°♂16'02	1.39466 AU
	9393 Jul 09 19:14	0°♂		9394 Jun 16 03:43	0°♂	
asc. node	9393 Jul 10 07:22	1°♂00'47				
evening rise	9393 Jul 13 11:52	7°♂24'51	superior conj	9394 Jun 17 19:02	3°♂00'39 -1°22'17	
	9393 Jul 26 04:28	0°♂	minimum elong	9394 Jun 18 00:17	3°♂25'00	1°21'50
evening max el	9393 Jul 30 08:35	4°♂58'33 19°23'59	evening rise	9394 Jun 27 06:58	21°♂04'41	
retrograde	9393 Aug 08 19:32	9°♂39'34	asc. node	9394 Jun 27 04:21	20°♂52'05	
evening set	9393 Aug 10 15:45	9°♂29'39		9394 Jul 01 23:49	0°♂	
desc. node	9393 Aug 13 14:06	8°♂36'35	evening max el	9394 Jul 13 09:43	17°♂06'59	18°37'34
inferior conj	9393 Aug 19 07:46	5°♂22'30 -1°46'11	retrograde	9394 Jul 21 09:34	21°♂05'55	
minimum elong	9393 Aug 19 03:00	5°♂30'14 1°44'30	evening set	9394 Jul 23 10:33	20°♂51'13	
min. Earth dist.	9393 Aug 21 20:48	3°♂43'37 0.55711 AU	inferior conj	9394 Jul 31 07:34	16°♂25'34	0°02'48
morning rise	9393 Aug 27 11:35	0°♂47'49	minimum elong	9394 Jul 31 07:39	16°♂25'23	0°02'31
	9393 Aug 30 12:41	30°♂♂	transit middle	9394 Jul 31 07:39	16°♂25'23	0°02'31
direct	9393 Sep 01 11:32	29°♂51'12	transit begin	9394 Jul 31 04:04	16°♂32'11	
	9393 Sep 03 10:20	0°♂	transit end	9394 Jul 31 11:15	16°♂18'34	
morning max el	9393 Sep 15 12:49	6°♂56'05 25°13'59	desc. node	9394 Jul 31 11:14	16°♂18'35	
	9393 Oct 02 08:53	0°♂	min. Earth dist.	9394 Aug 03 13:52	13°♂58'12	0.57416 AU
asc. node	9393 Oct 06 07:20	7°♂16'39	morning rise	9394 Aug 08 01:15	11°♂13'49	
morning set	9393 Oct 12 03:53	19°♂14'08	direct	9394 Aug 13 20:28	9°♂49'53	
	9393 Oct 17 02:25	0°♂	morning max el	9394 Aug 28 04:29	17°♂22'42	26°41'26
				9394 Sep 07 15:22	0°♂	
superior conj	9393 Oct 19 00:13	4°♂12'22 1°36'46	asc. node	9394 Sep 23 04:13	26°♂49'46	
minimum elong	9393 Oct 18 23:01	4°♂05'43 1°36'51		9394 Sep 24 17:25	0°♂	
max. Earth dist.	9393 Oct 20 11:22	7°♂25'13 1.32232 AU	morning set	9394 Sep 26 13:55	3°♂53'30	
evening rise	9393 Oct 26 03:52	19°♂32'49				
	9393 Oct 31 10:17	0°♂	superior conj	9394 Oct 03 11:45	19°♂01'39	1°27'15
desc. node	9393 Nov 09 12:25	15°♂57'26	minimum elong	9394 Oct 03 09:49	18°♂50'56	1°27'08
	9393 Nov 19 03:59	0°♂	max. Earth dist.	9394 Oct 03 19:52	19°♂46'45	1.31668 AU
evening max el	9393 Nov 27 20:56	9°♂50'11 27°28'39		9394 Oct 08 11:28	0°♂	
retrograde	9393 Dec 11 16:14	17°♂07'43	evening rise	9394 Oct 10 08:16	3°♂59'16	
evening set	9393 Dec 18 17:41	14°♂43'01		9394 Oct 24 04:09	0°♂	
min. Earth dist.	9393 Dec 22 10:29	11°♂42'43 0.62552 AU	desc. node	9394 Oct 27 09:33	5°♂04'32	
inferior conj	9393 Dec 25 07:20	8°♂58'58 -2°36'01	evening max el	9394 Nov 10 02:17	22°♂06'50	27°01'47
minimum elong	9393 Dec 25 12:24	8°♂46'51 2°33'46	retrograde	9394 Nov 24 00:07	29°♂17'04	
morning rise	9394 Jan 01 09:23	3°♂51'02	evening set	9394 Nov 30 22:21	27°♂11'56	
asc. node	9394 Jan 02 06:55	3°♂36'10	min. Earth dist.	9394 Dec 04 16:55	24°♂31'14	0.60496 AU
direct	9394 Jan 03 16:01	3°♂27'25	inferior conj	9394 Dec 07 20:25	21°♂53'25	-3°48'22
morning max el	9394 Jan 10 09:34	6°♂53'47 17°47'54	minimum elong	9394 Dec 08 03:36	21°♂38'23	3°45'47
	9394 Jan 25 11:19	0°♂	morning rise	9394 Dec 15 11:20	17°♂05'24	
morning set	9394 Jan 26 08:16	1°♂32'31	direct	9394 Dec 17 15:24	16°♂46'57	
desc. node	9394 Feb 05 11:46	19°♂10'29	asc. node	9394 Dec 20 03:58	17°♂13'01	
			morning max el	9394 Dec 24 23:43	20°♂26'58	18°01'41
superior conj	9394 Feb 06 21:50	21°♂34'01 -0°10'33		9395 Jan 01 02:48	0°♂	
minimum elong	9394 Feb 06 20:49	21°♂29'42 0°10'11	morning set	9395 Jan 09 14:58	15°♂08'40	
behind sun begin	9394 Feb 06 13:47	21°♂00'10		9395 Jan 17 17:24	0°♂	
behind sun end	9394 Feb 07 03:51	21°♂59'12				
	9394 Feb 12 00:21	0°♂	superior conj	9395 Jan 19 14:53	3°♂22'33	0°27'59
max. Earth dist.	9394 Feb 13 17:02	2°♂44'38 1.43855 AU	minimum elong	9395 Jan 19 17:04	3°♂32'14	0°27'56
evening rise	9394 Feb 21 17:01	15°♂21'57	desc. node	9395 Jan 23 08:41	9°♂53'54	
	9394 Mar 03 08:46	0°♂	max. Earth dist.	9395 Jan 27 05:26	16°♂26'04	1.42113 AU
evening max el	9394 Mar 24 04:16	27°♂50'07 21°16'27	evening rise	9395 Feb 01 18:44	25°♂29'23	
	9394 Mar 26 12:10	0°♂		9395 Feb 04 15:12	0°♂	
asc. node	9394 Mar 31 05:32	2°♂44'42		9395 Feb 25 05:31	0°♂	
retrograde	9394 Apr 01 22:03	2°♂58'59	evening max el	9395 Mar 06 21:55	11°♂33'36	22°33'38
evening set	9394 Apr 06 04:47	1°♂16'50	retrograde	9395 Mar 16 18:41	17°♂24'00	
	9394 Apr 07 13:57	30°♂♂	asc. node	9395 Mar 18 02:41	17°♂15'10	
inferior conj	9394 Apr 11 11:48	25°♂02'35 2°57'13	evening set	9395 Mar 21 12:28	15°♂26'48	
minimum elong	9394 Apr 11 09:59	25°♂08'54 2°56'46	inferior conj	9395 Mar 26 20:40	9°♂03'52	2°30'05
min. Earth dist.	9394 Apr 11 19:10	24°♂36'58 0.68322 AU	minimum elong	9395 Mar 26 18:29	9°♂11'30	2°29'29
morning rise	9394 Apr 16 14:59	18°♂48'09	min. Earth dist.	9395 Mar 26 15:37	9°♂21'28	0.68539 AU

morning rise	9395 Apr 01 00:21	2°♄54'31		min. Earth dist.	9396 Mar 09 12:06	24°♄06'06	0.68331 AU
direct	9395 Apr 05 15:15	0°♄58'55		inferior conj	9396 Mar 10 05:03	23°♄08'28	1°53'51
morning max el	9395 Apr 14 16:55	6°♄16'08	21°47'49	minimum elong	9396 Mar 10 02:55	23°♄15'43	1°53'12
desc. node	9395 Apr 21 08:54	13°♄59'35		morning rise	9396 Mar 15 11:49	17°♄05'29	
	9395 May 02 21:45	0°♄		direct	9396 Mar 19 13:20	15°♄32'10	
morning set	9395 May 17 03:50	21°♄50'08		morning max el	9396 Mar 27 12:16	20°♄03'09	20°29'30
	9395 May 22 04:29	0°♄			9396 Apr 04 17:58	0°♄	
max. Earth dist.	9395 May 23 03:03	1°♄33'23	1.41676 AU	desc. node	9396 Apr 07 05:46	3°♄26'24	
				morning set	9396 Apr 25 08:43	0°♄26'51	
superior conj	9395 May 30 18:57	14°♄37'38	-1°50'17		9396 Apr 25 01:47	0°♄	
minimum elong	9395 May 31 01:03	15°♄04'24	1°50'00	max. Earth dist.	9396 May 04 10:30	14°♄46'07	1.43556 AU
	9395 Jun 08 08:06	0°♄					
evening rise	9395 Jun 10 14:19	4°♄09'21		superior conj	9396 May 10 19:38	25°♄12'23	-2°08'45
asc. node	9395 Jun 14 01:22	10°♄29'51		minimum elong	9396 May 10 23:25	25°♄28'04	2°08'52
	9395 Jun 26 22:32	0°♄			9396 May 13 16:19	0°♄	
evening max el	9395 Jun 26 18:38	29°♄50'31	18°11'34	evening rise	9396 May 23 05:29	16°♄28'25	
retrograde	9395 Jul 03 18:35	3°♄22'44		asc. node	9396 May 30 22:26	29°♄48'34	
evening set	9395 Jul 06 03:05	2°♄59'20			9396 May 31 01:11	0°♄	
	9395 Jul 11 02:52	30°♄		evening max el	9396 Jun 09 07:29	12°♄59'08	18°05'03
inferior conj	9395 Jul 13 04:59	28°♄12'50	1°28'20	retrograde	9396 Jun 15 19:01	16°♄20'16	
minimum elong	9395 Jul 13 07:32	28°♄07'10	1°27'13	evening set	9396 Jun 18 11:09	15°♄45'22	
min. Earth dist.	9395 Jul 16 13:26	25°♄16'05	0.59560 AU	inferior conj	9396 Jun 24 21:12	10°♄39'12	2°27'01
desc. node	9395 Jul 18 08:20	23°♄51'04		minimum elong	9396 Jun 25 00:02	10°♄31'58	2°26'00
morning rise	9395 Jul 20 08:56	22°♄30'00		min. Earth dist.	9396 Jun 27 21:31	7°♄36'25	0.61818 AU
direct	9395 Jul 26 18:30	20°♄35'39		morning rise	9396 Jul 01 10:47	4°♄35'22	
morning max el	9395 Aug 10 03:00	28°♄26'42	27°37'55	desc. node	9396 Jul 04 05:27	3°♄02'07	
	9395 Aug 11 15:34	0°♄		direct	9396 Jul 08 03:34	2°♄14'06	
	9395 Sep 01 10:42	0°♄		morning max el	9396 Jul 22 08:05	10°♄15'26	27°56'32
asc. node	9395 Sep 10 01:07	16°♄38'58			9396 Aug 06 17:19	0°♄	
morning set	9395 Sep 10 20:44	18°♄21'11			9396 Aug 23 16:38	0°♄	
	9395 Sep 16 06:11	0°♄		morning set	9396 Aug 24 22:17	2°♄30'35	
max. Earth dist.	9395 Sep 17 05:46	2°♄10'26	1.31571 AU	asc. node	9396 Aug 26 22:01	6°♄38'05	
				max. Earth dist.	9396 Aug 30 13:02	14°♄23'25	1.31948 AU
superior conj	9395 Sep 17 23:23	3°♄48'05	1°12'28				
minimum elong	9395 Sep 17 21:08	3°♄35'39	1°12'08	superior conj	9396 Sep 01 09:15	18°♄25'04	0°52'42
evening rise	9395 Sep 24 17:03	18°♄36'16		minimum elong	9396 Sep 01 07:12	18°♄13'45	0°52'14
	9395 Sep 30 06:11	0°♄			9396 Sep 06 15:47	0°♄	
desc. node	9395 Oct 14 06:42	23°♄23'20		evening rise	9396 Sep 08 04:08	3°♄16'34	
	9395 Oct 19 13:47	0°♄			9396 Sep 22 09:08	0°♄	
evening max el	9395 Oct 23 00:13	3°♄33'44	26°01'18	desc. node	9396 Sep 30 03:53	10°♄33'56	
retrograde	9395 Nov 05 22:07	10°♄36'44		evening max el	9396 Oct 03 14:07	14°♄11'11	24°34'01
evening set	9395 Nov 12 07:01	9°♄00'26		retrograde	9396 Oct 17 08:43	21°♄06'20	
min. Earth dist.	9395 Nov 16 13:01	6°♄25'26	0.58413 AU	evening set	9396 Oct 22 15:28	20°♄04'19	
inferior conj	9395 Nov 19 15:50	4°♄09'44	-4°52'57	min. Earth dist.	9396 Oct 28 01:09	17°♄16'22	0.56540 AU
minimum elong	9395 Nov 19 23:11	3°♄56'21	4°51'05	inferior conj	9396 Oct 30 14:58	15°♄38'30	-5°34'36
	9395 Nov 26 19:38	30°♄		minimum elong	9396 Oct 30 18:25	15°♄33'00	5°34'07
morning rise	9395 Nov 27 17:43	29°♄44'11		morning rise	9396 Nov 07 23:33	11°♄35'12	
direct	9395 Nov 29 23:40	29°♄27'37		direct	9396 Nov 10 12:54	11°♄17'27	
	9395 Dec 03 01:01	0°♄		morning max el	9396 Nov 20 04:13	15°♄51'51	19°31'54
asc. node	9395 Dec 07 00:59	2°♄22'16		asc. node	9396 Nov 22 22:00	18°♄49'42	
morning max el	9395 Dec 08 07:10	3°♄30'01	18°35'46		9396 Nov 30 07:40	0°♄	
morning set	9395 Dec 24 09:36	29°♄17'29		morning set	9396 Dec 07 12:14	13°♄46'55	
	9395 Dec 24 18:23	0°♄					
superior conj	9396 Jan 02 05:09	16°♄11'18	0°58'26	superior conj	9396 Dec 15 11:35	29°♄45'23	1°20'12
minimum elong	9396 Jan 02 08:24	16°♄26'25	0°58'18	minimum elong	9396 Dec 15 14:26	29°♄59'27	1°20'12
max. Earth dist.	9396 Jan 09 13:40	29°♄27'56	1.40028 AU		9396 Dec 15 14:33	0°♄	
	9396 Jan 09 21:03	0°♄		max. Earth dist.	9396 Dec 21 19:33	11°♄48'47	1.37838 AU
desc. node	9396 Jan 10 05:38	0°♄37'14		evening rise	9396 Dec 25 12:50	18°♄31'11	
evening rise	9396 Jan 13 17:05	6°♄32'22		desc. node	9396 Dec 27 02:37	21°♄16'20	
	9396 Jan 28 17:13	0°♄			9397 Jan 01 07:04	0°♄	
evening max el	9396 Feb 17 12:28	25°♄19'53	23°53'55		9397 Jan 21 23:32	0°♄	
	9396 Feb 23 03:57	0°♄		evening max el	9397 Jan 30 01:40	9°♄08'03	25°10'49
retrograde	9396 Feb 28 12:13	1°♄47'55		retrograde	9397 Feb 11 01:42	16°♄05'24	
asc. node	9396 Mar 03 23:50	0°♄12'29		evening set	9397 Feb 16 19:55	13°♄41'59	
	9396 Mar 04 06:29	30°♄		asc. node	9397 Feb 18 21:00	11°♄41'09	
evening set	9396 Mar 04 18:01	29°♄36'35		min. Earth dist.	9397 Feb 21 06:29	8°♄46'14	0.67712 AU
				inferior conj	9397 Feb 22 11:04	7°♄13'04	1°08'51

minimum elong	9397 Feb 22 09:31	7° H 18'09	1°08'25	asc. node	9398 Feb 05 18:09	22° \approx 10'47	
morning rise	9397 Feb 27 23:27	1° H 17'55		inferior conj	9398 Feb 06 12:46	21° \approx 13'33	0°15'21
direct	9397 Mar 03 12:31	0° H 05'43		minimum elong	9398 Feb 06 12:22	21° \approx 14'48	0°15'24
morning max el	9397 Mar 10 15:34	4° H 02'06	19°24'47	transit middle	9398 Feb 06 12:22	21° \approx 14'48	0°15'24
greatest brilliancy	9397 Mar 23 10:12	20° H 49'24	-0.7m	transit begin	9398 Feb 06 11:32	21° \approx 17'19	
desc. node	9397 Mar 25 02:38	23° H 20'12		transit end	9398 Feb 06 13:11	21° \approx 12'17	
	9397 Mar 29 12:16	0° Y		morning rise	9398 Feb 12 09:08	15° \approx 28'02	
morning set	9397 Apr 04 07:43	8° Y 54'54		direct	9398 Feb 15 11:12	14° \approx 34'08	
max. Earth dist.	9397 Apr 17 00:14	28° Y 41'01	1.44885 AU	morning max el	9398 Feb 22 01:57	18° \approx 08'22	18°35'46
	9397 Apr 17 20:14	0° B			9398 Mar 03 05:07	0° H	
				desc. node	9398 Mar 11 23:29	13° H 33'19	
superior conj	9397 Apr 20 20:08	4° B 45'37	-2°11'17	morning set	9398 Mar 15 00:14	18° H 19'48	
minimum elong	9397 Apr 20 17:29	4° B 35'01	2°11'24		9398 Mar 22 10:22	0° Y	
evening rise	9397 May 04 23:45	27° B 52'07					
	9397 May 06 06:26	0° II		superior conj	9398 Mar 31 03:51	13° Y 39'52	-1°53'39
asc. node	9397 May 17 19:32	18° II 41'41		minimum elong	9398 Mar 30 19:02	13° Y 05'25	1°53'03
evening max el	9397 May 23 20:57	26° II 24'33	18°17'14	max. Earth dist.	9398 Mar 30 18:03	13° Y 01'30	1.45533 AU
retrograde	9397 May 30 06:14	29° II 48'53			9398 Apr 10 13:14	0° B	
evening set	9397 Jun 02 05:51	29° II 00'39		evening rise	9398 Apr 15 18:08	8° B 15'51	
inferior conj	9397 Jun 08 04:05	23° II 36'43	3°02'07	greatest brilliancy	9398 Apr 24 01:59	21° B 30'34	-0.8m
minimum elong	9397 Jun 08 06:03	23° II 31'07	3°01'30		9398 Apr 29 14:32	0° II	
min. Earth dist.	9397 Jun 10 15:05	20° II 49'17	0.63927 AU	asc. node	9398 May 04 16:39	6° II 59'59	
morning rise	9397 Jun 14 04:59	17° II 21'41		evening max el	9398 May 07 08:15	9° II 59'12	18°47'24
direct	9397 Jun 20 21:52	14° II 42'19		retrograde	9398 May 14 00:05	13° II 39'32	
desc. node	9397 Jun 21 02:30	14° II 42'26		evening set	9398 May 17 07:28	12° II 36'46	
morning max el	9397 Jul 04 17:23	22° II 44'15	27°37'41	inferior conj	9398 May 22 21:39	6° II 56'42	3°18'19
	9397 Jul 11 03:13	0° E		minimum elong	9398 May 22 22:22	6° II 54'28	3°18'00
	9397 Jul 30 23:34	0° O		min. Earth dist.	9398 May 24 17:32	4° II 40'29	0.65714 AU
morning set	9397 Aug 08 16:15	16° O 15'37		morning rise	9398 May 28 12:35	0° II 37'31	
max. Earth dist.	9397 Aug 13 13:41	26° O 15'13	1.32814 AU		9398 May 29 07:00	30° R B	
asc. node	9397 Aug 13 18:58	26° O 42'56		direct	9398 Jun 03 23:43	27° B 51'47	
	9397 Aug 15 08:12	0° np		desc. node	9398 Jun 07 23:30	28° B 44'58	
					9398 Jun 10 08:37	0° II	
superior conj	9397 Aug 16 15:29	2° np 47'20	0°28'20	morning max el	9398 Jun 17 03:56	5° II 40'53	26°47'12
minimum elong	9397 Aug 16 14:10	2° np 40'14	0°27'54		9398 Jul 05 19:02	0° E	
evening rise	9397 Aug 23 15:40	17° np 54'58		morning set	9398 Jul 22 23:30	29° E 27'26	
	9397 Aug 29 13:33	0° A			9398 Jul 23 06:20	0° O	
evening max el	9397 Sep 15 01:03	24° A 21'58	22°54'25	max. Earth dist.	9398 Jul 27 04:22	7° O 39'41	1.34175 AU
desc. node	9397 Sep 17 01:03	26° A 10'42					
	9397 Sep 23 05:46	0° M		superior conj	9398 Jul 31 15:48	16° O 48'29	-0°00'03
retrograde	9397 Sep 28 07:12	0° M 58'50		minimum elong	9398 Jul 31 15:48	16° O 48'33	0°00'17
evening set	9397 Oct 02 02:03	0° M 27'29		behind sun begin	9398 Jul 31 10:04	16° O 18'43	
	9397 Oct 03 12:57	30° R A		behind sun end	9398 Jul 31 21:32	17° O 18'26	
min. Earth dist.	9397 Oct 09 09:35	27° A 08'25	0.55187 AU	asc. node	9398 Jul 31 15:54	16° O 49'03	
inferior conj	9397 Oct 10 19:01	26° A 20'22	-5°33'11		9398 Aug 06 21:58	0° np	
minimum elong	9397 Oct 10 14:47	26° A 26'27	5°32'42	evening rise	9398 Aug 08 01:40	2° np 25'32	
morning rise	9397 Oct 19 05:26	22° A 31'19			9398 Aug 23 15:21	0° A	
direct	9397 Oct 22 07:24	22° A 09'10		evening max el	9398 Aug 27 18:16	4° A 42'46	21°19'19
morning max el	9397 Nov 02 12:15	27° A 24'59	20°50'31	desc. node	9398 Sep 03 22:13	9° A 43'00	
	9397 Nov 04 23:57	0° M		retrograde	9398 Sep 08 20:06	10° A 42'03	
asc. node	9397 Nov 09 18:58	6° M 19'42		evening set	9398 Sep 11 07:46	10° A 27'48	
morning set	9397 Nov 21 20:00	28° M 28'53		inferior conj	9398 Sep 20 12:00	6° A 31'17	-4°35'38
	9397 Nov 22 13:35	0° A		minimum elong	9398 Sep 20 02:27	6° A 44'41	4°33'15
				min. Earth dist.	9398 Sep 20 17:49	6° A 23'07	0.54648 AU
superior conj	9397 Nov 29 05:41	13° A 52'07	1°33'47	morning rise	9398 Sep 28 21:49	2° A 39'38	
minimum elong	9397 Nov 29 07:29	14° A 01'20	1°33'58	direct	9398 Oct 02 16:06	2° A 09'03	
max. Earth dist.	9397 Dec 04 03:54	23° A 44'33	1.35792 AU	morning max el	9398 Oct 15 07:48	8° A 10'33	22°28'12
	9397 Dec 07 10:21	0° B		asc. node	9398 Oct 27 15:54	24° A 38'06	
evening rise	9397 Dec 08 03:19	1° B 19'12			9398 Oct 30 15:44	0° M	
desc. node	9397 Dec 13 23:37	11° B 47'08		morning set	9398 Nov 06 06:43	13° M 17'18	
	9397 Dec 25 09:04	0° \approx					
evening max el	9398 Jan 12 14:53	22° \approx 54'40	26°17'09	superior conj	9398 Nov 13 07:57	28° M 21'09	1°40'01
	9398 Jan 23 17:46	0° H		minimum elong	9398 Nov 13 08:29	28° M 23'59	1°40'17
retrograde	9398 Jan 25 10:12	0° H 09'44			9398 Nov 14 02:37	0° A	
	9398 Jan 27 01:20	30° R \approx		max. Earth dist.	9398 Nov 16 19:30	5° A 38'50	1.34072 AU
evening set	9398 Jan 31 16:23	27° \approx 37'55		evening rise	9398 Nov 21 08:44	14° A 46'51	
min. Earth dist.	9398 Feb 04 20:33	23° \approx 16'38	0.66710 AU		9398 Nov 29 15:30	0° B	

desc. node	9398 Nov 30 20:39	2° Z 04'45		desc. node	9399 Nov 17 17:44	22° Z 02'08	
	9398 Dec 20 02:37	0° \approx			9399 Nov 22 19:04	0° Z	
evening max el	9398 Dec 26 04:16	6° \approx 32'39	27°05'30	evening max el	9399 Dec 08 16:24	19° Z 49'10	27°28'52
retrograde	9399 Jan 08 12:50	13° \approx 53'59		retrograde	9399 Dec 22 08:42	27° Z 08'38	
evening set	9399 Jan 15 05:25	11° \approx 19'06		evening set	9399 Dec 29 08:31	24° Z 37'48	
min. Earth dist.	9399 Jan 19 04:06	7° \approx 31'32	0.65349 AU	min. Earth dist.	9400 Jan 02 02:52	21° Z 21'46	0.63659 AU
inferior conj	9399 Jan 21 07:56	5° \approx 05'31	-0°46'08	inferior conj	9400 Jan 04 17:55	18° Z 41'29	-1°54'30
minimum elong	9399 Jan 21 09:17	5° \approx 01'42	0°45'18	minimum elong	9400 Jan 04 21:33	18° Z 32'11	1°52'44
asc. node	9399 Jan 23 15:14	2° \approx 35'45		asc. node	9400 Jan 10 12:18	13° Z 51'11	
	9399 Jan 26 18:07	30° R Z		morning rise	9400 Jan 11 12:31	13° Z 23'10	
morning rise	9399 Jan 27 14:30	29° Z 32'01		direct	9400 Jan 13 22:17	12° Z 54'47	
direct	9399 Jan 30 07:22	28° Z 52'47		morning max el	9400 Jan 20 10:42	16° Z 17'09	17°48'26
	9399 Feb 02 21:35	0° \approx			9400 Jan 30 05:35	0° \approx	
morning max el	9399 Feb 05 17:17	2° \approx 16'08	18°03'28	morning set	9400 Feb 05 22:45	11° \approx 25'01	
morning set	9399 Feb 23 21:56	29° \approx 12'57		desc. node	9400 Feb 13 17:12	24° \approx 37'12	
	9399 Feb 24 09:26	0° X			9400 Feb 16 23:00	0° X	
desc. node	9399 Feb 26 20:20	4° X 00'40					
				superior conj	9400 Feb 18 13:45	2° X 38'53	-0°35'18
superior conj	9399 Mar 10 11:59	22° X 42'39	-1°18'33	minimum elong	9400 Feb 18 09:55	2° X 23'16	0°34'34
minimum elong	9399 Mar 10 03:22	22° X 08'37	1°17'29	max. Earth dist.	9400 Feb 24 08:40	11° X 58'30	1.44630 AU
max. Earth dist.	9399 Mar 13 13:44	27° X 32'54	1.45446 AU	evening rise	9400 Mar 06 03:03	27° X 13'15	
	9399 Mar 15 03:17	0° Y			9400 Mar 07 22:37	0° Y	
evening rise	9399 Mar 26 15:35	17° Y 52'45			9400 Mar 28 12:50	0° Z	
	9399 Apr 03 12:37	0° Z		evening max el	9400 Apr 03 16:55	7° Z 19'04	20°35'46
greatest brilliancy	9399 Apr 08 21:33	8° Z 07'18	-0.7m	asc. node	9400 Apr 08 10:53	11° Z 06'44	
evening max el	9399 Apr 20 15:18	23° Z 38'23	19°34'16	retrograde	9400 Apr 11 20:07	12° Z 03'48	
asc. node	9399 Apr 21 13:46	24° Z 32'48		evening set	9400 Apr 15 21:10	10° Z 30'14	
retrograde	9399 Apr 27 21:31	27° Z 46'17		inferior conj	9400 Apr 21 04:23	4° Z 22'20	3°08'26
evening set	9399 May 01 13:16	26° Z 28'14		minimum elong	9400 Apr 21 02:57	4° Z 27'15	3°08'04
inferior conj	9399 May 06 22:38	20° Z 33'22	3°19'30	min. Earth dist.	9400 Apr 21 19:13	3° Z 31'21	0.68001 AU
minimum elong	9399 May 06 22:09	20° Z 34'58	3°19'15		9400 Apr 24 12:40	30° R Y	
min. Earth dist.	9399 May 08 03:31	18° Z 57'52	0.67085 AU	morning rise	9400 Apr 26 08:32	28° Y 05'57	
morning rise	9399 May 12 06:41	14° Z 14'25		direct	9400 May 01 20:57	25° Y 38'57	
direct	9399 May 18 07:46	11° Z 33'36			9400 May 10 13:22	0° Z	
desc. node	9399 May 25 20:29	14° Z 41'24		desc. node	9400 May 12 17:25	2° Z 02'29	
morning max el	9399 May 30 13:50	18° Z 54'03	25°33'43	morning max el	9400 May 12 23:07	2° Z 16'49	24°07'12
	9399 Jun 08 23:11	0° II			9400 Jun 03 00:43	0° II	
	9399 Jun 28 20:37	0° III		morning set	9400 Jun 17 13:01	23° II 26'38	
morning set	9399 Jul 05 16:04	11° III 55'22			9400 Jun 21 06:36	0° III	
max. Earth dist.	9399 Jul 09 08:31	18° III 45'13	1.35999 AU	max. Earth dist.	9400 Jun 21 06:06	29° II 57'46	1.38156 AU
superior conj	9399 Jul 15 07:27	0° II 21'11	-0°31'25	superior conj	9400 Jun 28 11:03	13° III 16'54	-1°04'01
minimum elong	9399 Jul 15 09:22	0° II 30'46	0°31'20	minimum elong	9400 Jun 28 15:10	13° III 36'33	1°03'38
	9399 Jul 15 03:13	0° II		asc. node	9400 Jul 05 09:49	26° III 49'42	
asc. node	9399 Jul 18 12:50	6° II 52'34		evening rise	9400 Jul 07 08:08	0° II 38'24	
evening rise	9399 Jul 23 08:01	16° II 42'20			9400 Jul 07 00:21	0° II	
	9399 Jul 30 03:12	0° III		evening max el	9400 Jul 23 18:53	27° II 24'56	19°01'41
evening max el	9399 Aug 10 00:03	15° III 41'00	20°00'12		9400 Jul 26 22:53	0° III	
retrograde	9399 Aug 20 09:57	20° III 50'16		retrograde	9400 Aug 01 13:40	1° III 46'40	
desc. node	9399 Aug 21 19:23	20° III 45'07		evening set	9400 Aug 03 11:19	1° III 35'12	
evening set	9399 Aug 22 07:35	20° III 40'44			9400 Aug 07 15:04	30° R II	
inferior conj	9399 Aug 31 07:51	16° III 41'02	-2°53'07	desc. node	9400 Aug 08 16:32	29° II 23'38	
minimum elong	9399 Aug 31 00:05	16° III 52'43	2°50'26	inferior conj	9400 Aug 11 19:34	27° II 20'21	-0°57'52
min. Earth dist.	9399 Sep 02 03:52	15° III 34'51	0.55065 AU	minimum elong	9400 Aug 11 17:05	27° II 24'40	0°57'05
morning rise	9399 Sep 08 15:10	12° III 26'49		min. Earth dist.	9400 Aug 14 17:45	25° II 19'28	0.56358 AU
direct	9399 Sep 13 04:03	11° III 42'01		morning rise	9400 Aug 19 19:43	22° II 30'01	
morning max el	9399 Sep 26 20:11	18° III 25'19	24°14'51	direct	9400 Aug 25 04:04	21° II 22'54	
	9399 Oct 06 09:58	0° IV		morning max el	9400 Sep 08 09:14	28° II 40'10	25°54'17
asc. node	9399 Oct 14 12:48	13° IV 32'39			9400 Sep 09 17:24	0° III	
morning set	9399 Oct 21 18:29	28° IV 06'03			9400 Sep 29 21:52	0° IV	
	9399 Oct 22 15:46	0° V		asc. node	9400 Oct 01 09:43	2° IV 54'13	
				morning set	9400 Oct 06 05:39	12° IV 50'43	
superior conj	9399 Oct 28 15:31	13° V 03'13	1°39'41	superior conj	9400 Oct 13 02:11	27° IV 51'52	1°33'24
minimum elong	9399 Oct 28 14:52	12° V 59'43	1°39'52	minimum elong	9400 Oct 13 00:38	27° IV 43'14	1°33'24
max. Earth dist.	9399 Oct 30 19:23	17° V 44'05	1.32777 AU	max. Earth dist.	9400 Oct 14 01:47	0° V 02'12	1.31940 AU
evening rise	9399 Nov 05 01:24	28° V 43'29			9400 Oct 14 01:23	0° V	
	9399 Nov 05 16:34	0° VI					

evening rise	9400 Oct 20 02:17	13° \mathbb{M} 01'14		max. Earth dist.	9401 Sep 27 11:18	12° \mathbb{A} 25'26	1.31566 AU
	9400 Oct 28 19:15	0° \mathbb{A}		evening rise	9401 Oct 04 08:48	27° \mathbb{A} 32'25	
desc. node	9400 Nov 04 14:51	11° \mathbb{A} 30'54			9401 Oct 05 12:45	0° \mathbb{M}	
	9400 Nov 18 12:49	0° \mathbb{B}			9401 Oct 22 06:43	0° \mathbb{A}	
evening max el	9400 Nov 21 00:53	2° \mathbb{B} 30'43	27°21'16	desc. node	9401 Oct 22 12:01	0° \mathbb{A} 19'24	
retrograde	9400 Dec 04 21:08	9° \mathbb{B} 44'42		evening max el	9401 Nov 03 03:04	14° \mathbb{A} 25'48	26°39'50
evening set	9400 Dec 11 22:30	7° \mathbb{B} 26'52		retrograde	9401 Nov 17 01:13	21° \mathbb{A} 33'39	
min. Earth dist.	9400 Dec 15 15:14	4° \mathbb{B} 36'32	0.61704 AU	evening set	9401 Nov 23 19:19	19° \mathbb{A} 39'21	
inferior conj	9400 Dec 18 15:37	1° \mathbb{B} 53'31	-3°06'57	min. Earth dist.	9401 Nov 27 16:59	17° \mathbb{A} 03'19	0.59602 AU
minimum elong	9400 Dec 18 21:41	1° \mathbb{B} 39'46	3°04'27	inferior conj	9401 Nov 30 21:34	14° \mathbb{A} 32'31	-4°17'28
	9400 Dec 20 19:34	30° \mathbb{R} \mathbb{A}		minimum elong	9401 Dec 01 05:11	14° \mathbb{A} 17'29	4°15'02
morning rise	9400 Dec 25 23:14	26° \mathbb{A} 53'46		morning rise	9401 Dec 08 17:36	9° \mathbb{A} 54'16	
direct	9400 Dec 28 04:27	26° \mathbb{A} 32'40		direct	9401 Dec 10 21:46	9° \mathbb{A} 37'05	
asc. node	9400 Dec 28 09:21	26° \mathbb{A} 32'51		asc. node	9401 Dec 15 06:24	10° \mathbb{A} 50'04	
morning max el	9401 Jan 04 03:05	0° \mathbb{B} 03'19	17°51'24	morning max el	9401 Dec 18 14:57	13° \mathbb{A} 25'19	18°13'38
	9401 Jan 04 01:44	0° \mathbb{B}			9401 Dec 29 19:48	0° \mathbb{B}	
morning set	9401 Jan 19 20:19	24° \mathbb{B} 35'39		morning set	9402 Jan 03 08:39	8° \mathbb{B} 27'07	
	9401 Jan 22 20:21	0° \mathbb{A}					
superior conj	9401 Jan 30 16:42	13° \mathbb{A} 47'44	0°06'42	superior conj	9402 Jan 12 19:26	26° \mathbb{B} 04'01	0°41'58
minimum elong	9401 Jan 30 17:19	13° \mathbb{A} 50'25	0°06'51	minimum elong	9402 Jan 12 22:18	26° \mathbb{B} 16'58	0°41'49
behind sun begin	9401 Jan 30 09:34	13° \mathbb{A} 17'06			9402 Jan 15 00:04	0° \mathbb{A}	
behind sun end	9401 Jan 31 01:05	14° \mathbb{A} 23'40		desc. node	9402 Jan 18 11:03	6° \mathbb{A} 03'11	
desc. node	9401 Jan 31 14:06	15° \mathbb{A} 19'12		max. Earth dist.	9402 Jan 20 10:12	9° \mathbb{A} 24'42	1.41250 AU
max. Earth dist.	9401 Feb 07 00:02	26° \mathbb{A} 00'42	1.43174 AU	evening rise	9402 Jan 25 05:51	17° \mathbb{A} 24'41	
	9401 Feb 09 11:11	0° \mathbb{A}			9402 Feb 02 05:29	0° \mathbb{A}	
evening rise	9401 Feb 13 19:50	6° \mathbb{A} 54'39			9402 Feb 23 21:09	0° \mathbb{Y}	
	9401 Mar 01 05:00	0° \mathbb{Y}		evening max el	9402 Feb 28 05:00	4° \mathbb{Y} 44'52	23°07'46
evening max el	9401 Mar 17 13:02	21° \mathbb{Y} 00'36	21°48'30	retrograde	9402 Mar 10 13:40	10° \mathbb{Y} 52'51	
asc. node	9401 Mar 26 08:01	26° \mathbb{Y} 26'33		asc. node	9402 Mar 13 05:11	10° \mathbb{Y} 18'33	
retrograde	9401 Mar 26 18:01	26° \mathbb{Y} 27'25		evening set	9402 Mar 15 12:23	8° \mathbb{Y} 49'28	
evening set	9401 Mar 31 05:24	24° \mathbb{Y} 38'32		inferior conj	9402 Mar 20 21:35	2° \mathbb{Y} 23'34	2°15'48
inferior conj	9401 Apr 05 12:41	18° \mathbb{Y} 20'01	2°46'50	minimum elong	9402 Mar 20 19:22	2° \mathbb{Y} 31'15	2°15'10
minimum elong	9401 Apr 05 10:39	18° \mathbb{Y} 27'04	2°46'19	min. Earth dist.	9402 Mar 20 11:24	2° \mathbb{Y} 58'46	0.68496 AU
min. Earth dist.	9401 Apr 05 14:34	18° \mathbb{Y} 13'25	0.68466 AU		9402 Mar 22 16:00	30° \mathbb{R} \mathbb{A}	
morning rise	9401 Apr 10 15:45	12° \mathbb{Y} 07'42		morning rise	9402 Mar 26 02:16	26° \mathbb{A} 16'35	
direct	9401 Apr 15 14:27	9° \mathbb{Y} 59'57		direct	9402 Mar 30 11:16	24° \mathbb{A} 30'37	
morning max el	9401 Apr 25 09:47	15° \mathbb{Y} 47'11	22°37'25	morning max el	9402 Apr 08 01:06	29° \mathbb{A} 27'35	21°13'01
desc. node	9401 Apr 29 14:20	20° \mathbb{Y} 24'58			9402 Apr 08 13:53	0° \mathbb{Y}	
	9401 May 07 00:30	0° \mathbb{B}		desc. node	9402 Apr 16 11:13	9° \mathbb{Y} 32'14	
	9401 May 27 01:01	0° \mathbb{II}			9402 Apr 30 16:44	0° \mathbb{B}	
morning set	9401 May 29 09:02	3° \mathbb{II} 47'39		morning set	9402 May 09 02:16	12° \mathbb{B} 56'13	
max. Earth dist.	9401 Jun 03 03:26	11° \mathbb{II} 45'12	1.40424 AU	max. Earth dist.	9402 May 16 05:59	24° \mathbb{B} 24'43	1.42527 AU
					9402 May 19 15:07	0° \mathbb{II}	
superior conj	9401 Jun 10 22:19	25° \mathbb{II} 24'49	-1°34'56	superior conj	9402 May 23 12:47	6° \mathbb{II} 35'58	-1°59'39
minimum elong	9401 Jun 11 04:12	25° \mathbb{II} 51'24	1°34'32	minimum elong	9402 May 23 18:25	7° \mathbb{II} 00'03	1°59'33
	9401 Jun 13 10:38	0° \mathbb{B}		evening rise	9402 Jun 03 23:51	26° \mathbb{II} 50'49	
evening rise	9401 Jun 20 22:45	14° \mathbb{B} 04'19			9402 Jun 05 17:50	0° \mathbb{B}	
asc. node	9401 Jun 22 06:49	16° \mathbb{B} 35'36		asc. node	9402 Jun 09 03:52	6° \mathbb{B} 05'53	
	9401 Jun 29 17:44	0° \mathbb{Q}		evening max el	9402 Jun 20 10:46	22° \mathbb{B} 43'47	18°06'28
evening max el	9401 Jul 06 23:44	9° \mathbb{Q} 48'41	18°24'05	retrograde	9402 Jun 27 04:12	26° \mathbb{B} 09'27	
retrograde	9401 Jul 14 12:13	13° \mathbb{Q} 34'47		evening set	9402 Jun 29 15:53	25° \mathbb{B} 41'33	
evening set	9401 Jul 16 16:07	13° \mathbb{Q} 16'55		inferior conj	9402 Jul 06 10:37	20° \mathbb{B} 46'48	1°56'21
inferior conj	9401 Jul 24 04:44	8° \mathbb{Q} 42'19	0°42'22	minimum elong	9402 Jul 06 13:29	20° \mathbb{B} 40'00	1°55'12
minimum elong	9401 Jul 24 06:11	8° \mathbb{Q} 39'21	0°41'34	min. Earth dist.	9402 Jul 09 16:42	17° \mathbb{B} 44'14	0.60525 AU
desc. node	9401 Jul 26 13:41	6° \mathbb{Q} 46'25		morning rise	9402 Jul 13 08:20	14° \mathbb{B} 53'33	
min. Earth dist.	9401 Jul 27 13:28	5° \mathbb{Q} 59'40	0.58285 AU	desc. node	9402 Jul 13 10:47	14° \mathbb{B} 49'41	
morning rise	9401 Jul 31 16:47	3° \mathbb{Q} 15'51		direct	9402 Jul 19 21:58	12° \mathbb{B} 46'33	
direct	9401 Aug 06 18:37	1° \mathbb{Q} 39'09		morning max el	9402 Aug 03 05:23	20° \mathbb{B} 43'50	27°50'31
morning max el	9401 Aug 21 03:55	9° \mathbb{Q} 21'22	27°09'56		9402 Aug 11 05:27	0° \mathbb{Q}	
	9401 Sep 05 22:26	0° \mathbb{P}			9402 Aug 29 21:31	0° \mathbb{P}	
asc. node	9401 Sep 18 06:38	22° \mathbb{P} 34'44		morning set	9402 Sep 04 19:23	11° \mathbb{P} 45'46	
morning set	9401 Sep 20 14:33	27° \mathbb{P} 25'41		asc. node	9402 Sep 05 03:33	12° \mathbb{P} 28'21	
	9401 Sep 21 19:31	0° \mathbb{A}		max. Earth dist.	9402 Sep 10 20:18	24° \mathbb{P} 44'10	1.31666 AU
superior conj	9401 Sep 27 13:59	12° \mathbb{A} 40'22	1°21'37	superior conj	9402 Sep 12 01:06	27° \mathbb{P} 23'06	1°04'41
minimum elong	9401 Sep 27 11:52	12° \mathbb{A} 28'37	1°21'24	minimum elong	9402 Sep 11 22:53	27° \mathbb{P} 10'47	1°04'16

	9402 Sep 13 05:26	0°♄		superior conj	9403 Aug 27 09:42	11°♄54'41	0°42'55
evening rise	9402 Sep 18 18:46	12°♄10'52		minimum elong	9403 Aug 27 07:53	11°♄44'47	0°42'26
	9402 Sep 27 16:59	0°♄		evening rise	9403 Sep 03 06:17	26°♄51'09	
desc. node	9402 Oct 09 09:11	18°♄11'37			9403 Sep 04 17:51	0°♄	
evening max el	9402 Oct 15 21:21	25°♄30'06	25°26'48		9403 Sep 22 03:18	0°♄	
	9402 Oct 21 15:41	0°♄		desc. node	9403 Sep 26 06:20	4°♄46'01	
retrograde	9402 Oct 29 19:02	2°♄30'46		evening max el	9403 Sep 27 09:20	5°♄53'26	23°52'15
evening set	9402 Nov 04 18:04	1°♄09'00		retrograde	9403 Oct 11 00:11	12°♄41'59	
	9402 Nov 07 00:05	30°♄		evening set	9403 Oct 15 16:11	11°♄54'23	
min. Earth dist.	9402 Nov 09 09:33	28°♄30'36	0.57565 AU	min. Earth dist.	9403 Oct 21 19:47	8°♄55'13	0.55879 AU
inferior conj	9402 Nov 12 08:31	26°♄29'09	-5°14'38	inferior conj	9403 Oct 23 23:08	7°♄37'47	-5°40'26
minimum elong	9402 Nov 12 14:48	26°♄18'20	5°13'22	minimum elong	9403 Oct 23 23:33	7°♄37'09	5°40'16
morning rise	9402 Nov 20 13:52	22°♄13'20		morning rise	9403 Nov 01 08:55	3°♄41'40	
direct	9402 Nov 22 22:03	21°♄56'46		direct	9403 Nov 04 03:12	3°♄22'20	
morning max el	9402 Dec 01 18:26	26°♄12'08	18°56'52	morning max el	9403 Nov 14 10:04	8°♄13'42	20°02'38
asc. node	9402 Dec 02 03:26	26°♄34'12		asc. node	9403 Nov 19 00:26	13°♄30'13	
	9402 Dec 05 03:02	0°♄			9403 Nov 28 19:49	0°♄	
morning set	9402 Dec 18 07:06	22°♄45'40		morning set	9403 Dec 02 12:16	7°♄21'47	
	9402 Dec 21 23:10	0°♄					
superior conj	9402 Dec 26 17:10	9°♄13'31	1°08'42	superior conj	9403 Dec 10 05:04	23°♄02'59	1°26'54
minimum elong	9402 Dec 26 20:23	9°♄28'49	1°08'36	minimum elong	9403 Dec 10 07:32	23°♄15'19	1°26'59
max. Earth dist.	9403 Jan 02 16:35	22°♄06'29	1.39092 AU		9403 Dec 13 17:44	0°♄	
desc. node	9403 Jan 05 08:00	26°♄45'06		max. Earth dist.	9403 Dec 15 23:15	4°♄15'46	1.36943 AU
evening rise	9403 Jan 06 13:31	28°♄52'12		evening rise	9403 Dec 19 17:46	11°♄13'39	
	9403 Jan 07 05:26	0°♄		desc. node	9403 Dec 23 05:00	17°♄21'28	
	9403 Jan 26 16:04	0°♄			9403 Dec 30 20:36	0°♄	
evening max el	9403 Feb 10 18:50	18°♄32'21	24°27'33		9404 Jan 22 00:57	0°♄	
retrograde	9403 Feb 22 05:39	25°♄14'19		evening max el	9404 Jan 24 08:10	2°♄21'23	25°40'45
evening set	9403 Feb 27 16:34	22°♄57'48		retrograde	9404 Feb 05 16:55	9°♄26'52	
asc. node	9403 Feb 28 02:21	22°♄36'14		evening set	9404 Feb 11 16:21	6°♄59'34	
min. Earth dist.	9403 Mar 04 07:22	17°♄41'50	0.68114 AU	asc. node	9404 Feb 14 23:29	3°♄34'33	
inferior conj	9403 Mar 05 05:12	16°♄28'41	1°35'49	min. Earth dist.	9404 Feb 16 00:12	2°♄18'26	0.67341 AU
minimum elong	9403 Mar 05 03:15	16°♄35'14	1°35'15	inferior conj	9404 Feb 17 09:39	0°♄32'06	0°47'13
morning rise	9403 Mar 10 14:03	10°♄28'33		minimum elong	9404 Feb 17 08:30	0°♄35'45	0°46'56
direct	9403 Mar 14 10:07	9°♄04'21			9404 Feb 17 19:46	30°♄	
morning max el	9403 Mar 21 23:41	13°♄19'17	20°00'02	morning rise	9404 Feb 23 01:08	24°♄40'39	
desc. node	9403 Apr 03 08:05	29°♄11'23		direct	9404 Feb 26 09:26	23°♄36'27	
	9403 Apr 03 21:29	0°♄		morning max el	9404 Mar 04 06:07	27°♄21'33	19°01'50
morning set	9403 Apr 18 01:35	21°♄19'54			9404 Mar 06 16:22	0°♄	
	9403 Apr 23 15:31	0°♄		greatest brilliancy	9404 Mar 17 21:11	15°♄41'27	-0.8m
max. Earth dist.	9403 Apr 28 15:57	7°♄55'40	1.44203 AU	desc. node	9404 Mar 20 04:56	19°♄14'02	
				morning set	9404 Mar 27 05:35	0°♄05'12	
superior conj	9403 May 04 02:57	16°♄43'29	-2°12'08		9404 Mar 27 04:14	0°♄	
minimum elong	9403 May 04 04:24	16°♄49'22	2°12'19	max. Earth dist.	9404 Apr 10 08:07	22°♄04'43	1.45260 AU
	9403 May 12 02:55	0°♄					
evening rise	9403 May 17 06:35	8°♄46'36		superior conj	9404 Apr 12 18:40	25°♄55'10	-2°06'18
asc. node	9403 May 27 00:56	25°♄14'21		minimum elong	9404 Apr 12 12:55	25°♄32'26	2°06'09
	9403 May 30 03:51	0°♄			9404 Apr 15 08:35	0°♄	
evening max el	9403 Jun 04 00:19	6°♄00'36	18°08'02	evening rise	9404 Apr 27 14:43	19°♄44'02	
retrograde	9403 Jun 10 09:35	9°♄21'03			9404 May 03 21:39	0°♄	
evening set	9403 Jun 13 04:59	8°♄40'35		asc. node	9404 May 12 22:01	13°♄53'24	
inferior conj	9403 Jun 19 09:33	3°♄26'50	2°44'29	evening max el	9404 May 17 13:09	19°♄30'29	18°27'57
minimum elong	9403 Jun 19 12:06	3°♄20'00	2°43'38	retrograde	9404 May 24 00:02	22°♄59'51	
min. Earth dist.	9403 Jun 22 04:41	0°♄28'13	0.62752 AU	evening set	9404 May 27 03:01	22°♄05'21	
	9403 Jun 22 15:49	30°♄		inferior conj	9404 Jun 01 21:22	16°♄34'11	3°11'03
morning rise	9403 Jun 25 17:28	27°♄17'29		minimum elong	9404 Jun 01 22:49	16°♄29'53	3°10'35
desc. node	9403 Jun 30 07:50	25°♄01'46		min. Earth dist.	9404 Jun 04 01:55	13°♄58'50	0.64738 AU
direct	9403 Jul 02 11:19	24°♄46'58		morning rise	9404 Jun 07 17:41	10°♄16'56	
	9403 Jul 13 11:25	0°♄		direct	9404 Jun 14 08:46	7°♄33'42	
morning max el	9403 Jul 16 12:20	2°♄49'35	27°52'46	desc. node	9404 Jun 16 04:52	7°♄44'54	
	9403 Aug 05 15:54	0°♄		morning max el	9404 Jun 27 22:22	15°♄31'01	27°19'39
morning set	9403 Aug 19 18:01	25°♄45'26			9404 Jul 09 19:13	0°♄	
	9403 Aug 21 19:42	0°♄			9404 Jul 28 09:56	0°♄	
asc. node	9403 Aug 23 00:29	2°♄30'22		morning set	9404 Aug 02 07:46	9°♄16'50	
max. Earth dist.	9403 Aug 25 01:05	6°♄48'34	1.32253 AU	max. Earth dist.	9404 Aug 06 21:57	18°♄29'25	1.33336 AU
				asc. node	9404 Aug 08 21:23	22°♄35'51	

superior conj	9404 Aug 10 13:40	26°♌08'23	0°16'45			9405 Jul 20 11:20	0°♌	
minimum elong	9404 Aug 10 12:50	26°♌03'58	0°16'23	max. Earth dist.		9405 Jul 20 08:22	29°♍45'33	1.34901 AU
	9404 Aug 12 09:05	0°♎						
evening rise	9404 Aug 17 17:24	11°♎26'51		superior conj		9405 Jul 25 10:38	9°♌58'05	-0°13'05
	9404 Aug 27 04:50	0°♏		minimum elong		9405 Jul 25 11:23	10°♌01'59	0°13'11
evening max el	9404 Sep 07 21:45	16°♏03'18	22°12'32	behind sun begin		9405 Jul 25 07:57	9°♌44'21	
desc. node	9404 Sep 12 03:31	19°♏33'31		behind sun end		9405 Jul 25 14:50	10°♌19'38	
retrograde	9404 Sep 20 17:22	22°♏26'20		asc. node		9405 Jul 26 18:19	12°♌41'15	
evening set	9404 Sep 23 21:44	22°♏03'53		evening rise		9405 Aug 02 02:08	25°♌52'23	
min. Earth dist.	9404 Oct 02 03:22	18°♏27'25	0.54848 AU			9405 Aug 04 02:20	0°♎	
inferior conj	9404 Oct 02 20:58	18°♏02'41	-5°15'39	evening max el		9405 Aug 20 19:42	26°♎36'53	20°43'14
minimum elong	9404 Oct 02 13:44	18°♏12'52	5°14'25			9405 Aug 24 23:43	0°♏	
morning rise	9404 Oct 11 07:20	14°♏15'24		desc. node		9405 Aug 30 00:39	2°♏03'56	
direct	9404 Oct 14 16:08	13°♏50'10		retrograde		9405 Sep 01 05:31	2°♏16'15	
morning max el	9404 Oct 26 12:18	19°♏24'37	21°30'14	evening set		9405 Sep 03 08:53	2°♏05'08	
	9404 Nov 04 00:30	0°♐				9405 Sep 09 04:19	30°♎♎	
asc. node	9404 Nov 04 21:23	1°♐21'53		inferior conj		9405 Sep 12 13:18	28°♎08'35	-3°55'57
morning set	9404 Nov 15 21:32	22°♐06'59		minimum elong		9405 Sep 12 03:42	28°♎22'19	3°53'04
	9404 Nov 19 15:21	0°♑		min. Earth dist.		9405 Sep 13 12:03	27°♎35'59	0.54707 AU
				morning rise		9405 Sep 20 22:26	24°♎09'39	
superior conj	9404 Nov 23 03:01	7°♑19'52	1°37'16	direct		9405 Sep 25 00:07	23°♎34'09	
minimum elong	9404 Nov 23 04:17	7°♑26'28	1°37'30	morning max el		9405 Oct 08 04:04	29°♎54'09	23°13'25
max. Earth dist.	9404 Nov 27 10:34	16°♑09'13	1.35014 AU			9405 Oct 08 06:34	0°♏	
evening rise	9404 Dec 01 15:01	24°♑18'59		asc. node		9405 Oct 22 18:18	19°♏56'28	
	9404 Dec 04 16:20	0°♒				9405 Oct 28 00:46	0°♐	
desc. node	9404 Dec 09 02:02	7°♒47'04		morning set		9405 Oct 31 08:53	6°♐55'41	
	9404 Dec 23 10:33	0°♓						
evening max el	9405 Jan 05 21:30	16°♓05'10	26°40'15	superior conj		9405 Nov 07 07:50	21°♐55'02	1°40'39
retrograde	9405 Jan 18 22:50	23°♓23'36		minimum elong		9405 Nov 07 07:51	21°♐55'05	1°40'53
evening set	9405 Jan 25 09:54	20°♓49'33		max. Earth dist.		9405 Nov 10 05:34	28°♐05'57	1.33462 AU
min. Earth dist.	9405 Jan 29 11:36	16°♓43'03	0.66180 AU			9405 Nov 11 03:22	0°♑	
inferior conj	9405 Jan 31 08:50	14°♓29'14	-0°09'45	evening rise		9405 Nov 15 01:35	7°♑59'16	
minimum elong	9405 Jan 31 09:06	14°♓28'28	0°09'25	desc. node		9405 Nov 25 23:06	27°♑56'27	
transit middle	9405 Jan 31 09:06	14°♓28'28	0°09'25			9405 Nov 27 04:49	0°♒	
transit begin	9405 Jan 31 06:44	14°♓35'30		evening max el		9405 Dec 19 10:20	29°♒34'15	27°18'49
transit end	9405 Jan 31 11:28	14°♓21'27				9405 Dec 19 21:14	0°♓	
asc. node	9405 Jan 31 20:35	13°♓54'34		retrograde		9406 Jan 01 22:48	6°♓56'13	
morning rise	9405 Feb 06 09:18	8°♓48'44		evening set		9406 Jan 08 19:04	4°♓21'41	
direct	9405 Feb 09 07:18	8°♓01'28		min. Earth dist.		9406 Jan 12 15:32	0°♓48'15	0.64663 AU
morning max el	9405 Feb 15 18:57	11°♓29'22	18°19'59			9406 Jan 13 09:38	30°♎♒	
	9405 Mar 01 01:56	0°♈		inferior conj		9406 Jan 15 00:24	28°♒14'36	-1°14'26
morning set	9405 Mar 07 10:09	10°♈07'13		minimum elong		9406 Jan 15 02:41	28°♒08'27	1°13'12
desc. node	9405 Mar 07 01:48	9°♈33'48		asc. node		9406 Jan 18 17:41	24°♒34'11	
	9405 Mar 19 23:05	0°♉		morning rise		9406 Jan 21 11:56	22°♒47'31	
				direct		9406 Jan 24 01:26	22°♒13'29	
superior conj	9405 Mar 23 00:08	4°♉46'23	-1°40'25	morning max el		9406 Jan 30 11:37	25°♒35'16	17°55'00
minimum elong	9405 Mar 22 14:33	4°♉08'49	1°39'32			9406 Feb 03 05:32	0°♊	
max. Earth dist.	9405 Mar 24 03:32	6°♉33'34	1.45590 AU	morning set		9406 Feb 16 20:02	21°♊35'42	
evening rise	9405 Apr 07 23:28	29°♉45'48		desc. node		9406 Feb 21 22:41	0°♈05'23	
	9405 Apr 08 03:05	0°♊				9406 Feb 21 21:23	0°♈	
greatest brilliancy	9405 Apr 18 13:17	16°♊16'15	-0.8m					
	9405 Apr 28 04:22	0°♋		superior conj		9406 Mar 02 14:13	14°♈08'05	-1°00'35
asc. node	9405 Apr 29 19:06	1°♋53'47		minimum elong		9406 Mar 02 07:25	13°♈40'52	0°59'34
evening max el	9405 Apr 30 22:48	3°♋07'20	19°05'21	max. Earth dist.		9406 Mar 06 22:59	21°♈03'33	1.45177 AU
retrograde	9405 May 07 19:53	6°♋58'20				9406 Mar 12 16:13	0°♉	
evening set	9405 May 11 06:44	5°♋49'02		evening rise		9406 Mar 18 14:55	9°♉10'55	
inferior conj	9405 May 16 18:28	0°♋02'10	3°20'29			9406 Apr 01 09:13	0°♊	
minimum elong	9405 May 16 18:39	0°♋01'35	3°20'12	greatest brilliancy		9406 Apr 02 08:32	1°♊25'27	-0.6m
	9405 May 16 19:09	30°♎♋		evening max el		9406 Apr 14 03:33	16°♊46'59	19°58'47
min. Earth dist.	9405 May 18 07:48	28°♋02'42	0.66348 AU	asc. node		9406 Apr 16 16:13	19°♋03'18	
morning rise	9405 May 22 06:06	23°♋42'35		retrograde		9406 Apr 21 18:11	21°♋10'07	
direct	9405 May 28 13:11	20°♋58'00		evening set		9406 Apr 25 13:40	19°♋45'37	
desc. node	9405 Jun 03 01:50	22°♋39'41		inferior conj		9406 Apr 30 21:48	13°♋44'51	3°16'11
morning max el	9405 Jun 10 09:03	28°♋36'54	26°18'16	minimum elong		9406 Apr 30 20:53	13°♋47'58	3°15'54
	9405 Jun 11 16:57	0°♌		min. Earth dist.		9406 May 01 20:36	12°♋27'56	0.67526 AU
	9405 Jul 03 14:03	0°♍		morning rise		9406 May 06 03:49	7°♋26'28	
morning set	9405 Jul 16 09:19	22°♍11'29		direct		9406 May 11 23:39	4°♋50'35	

desc. node	9406 May 20 22:49	9°♄15'13		desc. node	9407 May 07 19:46	27°♑04'51	
morning max el	9406 May 23 18:44	11°♄55'17	24°57'52		9407 May 10 09:20	0°♄	
	9406 Jun 07 06:27	0°♄			9407 May 31 18:24	0°♄	
	9406 Jun 26 07:38	0°♄		morning set	9407 Jun 10 05:09	15°♄19'46	
morning set	9406 Jun 28 18:13	4°♄17'04		max. Earth dist.	9407 Jun 14 04:53	22°♄10'45	1.39128 AU
max. Earth dist.	9406 Jul 02 08:45	10°♄48'50	1.36884 AU		9407 Jun 18 14:14	0°♄	
superior conj	9406 Jul 08 21:35	23°♄15'43	-0°45'15	superior conj	9407 Jun 21 18:50	5°♄52'29	-1°17'34
minimum elong	9406 Jul 09 00:26	23°♄29'40	0°45'01	minimum elong	9407 Jun 21 23:49	6°♄15'45	1°17'09
	9406 Jul 12 07:01	0°♄		asc. node	9407 Jun 30 12:15	22°♄34'50	
asc. node	9406 Jul 13 15:16	2°♄42'11		evening rise	9407 Jul 01 02:41	23°♄44'47	
evening rise	9406 Jul 17 06:10	10°♄00'49			9407 Jul 04 08:49	0°♄	
	9406 Jul 28 02:47	0°♄		evening max el	9407 Jul 17 06:56	19°♄56'34	18°43'11
evening max el	9406 Aug 03 07:16	7°♄54'26	19°32'45	retrograde	9407 Jul 25 11:14	24°♄00'50	
retrograde	9406 Aug 13 00:04	12°♄42'27		evening set	9407 Jul 27 11:18	23°♄47'04	
evening set	9406 Aug 14 20:15	12°♄32'50		desc. node	9407 Aug 03 18:57	19°♄54'18	
desc. node	9406 Aug 16 21:47	12°♄00'43		inferior conj	9407 Aug 04 11:16	19°♄24'19	-0°12'27
inferior conj	9406 Aug 23 14:42	8°♄28'04	-2°03'47	minimum elong	9407 Aug 04 10:45	19°♄25'15	0°12'29
minimum elong	9406 Aug 23 09:07	8°♄36'57	2°01'48	transit middle	9407 Aug 04 10:45	19°♄25'15	0°12'29
min. Earth dist.	9406 Aug 25 23:53	6°♄57'23	0.55516 AU	transit begin	9407 Aug 04 08:26	19°♄29'32	
morning rise	9406 Aug 31 19:34	3°♄58'55		transit end	9407 Aug 04 13:05	19°♄20'57	
direct	9406 Sep 05 16:41	3°♄05'31		min. Earth dist.	9407 Aug 07 16:01	17°♄03'18	0.57124 AU
morning max el	9406 Sep 19 15:57	10°♄05'20	24°59'05	morning rise	9407 Aug 12 06:46	14°♄18'07	
	9406 Oct 04 14:54	0°♄		direct	9407 Aug 17 23:22	12°♄58'41	
asc. node	9406 Oct 09 15:14	9°♄03'23		morning max el	9407 Sep 01 06:45	20°♄27'35	26°30'12
morning set	9406 Oct 15 20:35	21°♄43'07			9407 Sep 09 12:06	0°♄	
	9406 Oct 19 16:07	0°♄		asc. node	9407 Sep 26 12:09	28°♄33'38	
superior conj	9406 Oct 22 17:00	6°♄40'53	1°37'43		9407 Sep 27 05:15	0°♄	
minimum elong	9406 Oct 22 15:56	6°♄35'01	1°37'51	morning set	9407 Sep 30 06:59	6°♄23'52	
max. Earth dist.	9406 Oct 24 08:19	10°♄15'55	1.32358 AU	superior conj	9407 Oct 07 04:22	21°♄30'01	1°29'03
evening rise	9406 Oct 29 22:06	22°♄05'57		minimum elong	9407 Oct 07 02:31	21°♄19'47	1°28'58
	9406 Nov 02 21:07	0°♄		max. Earth dist.	9407 Oct 07 16:26	22°♄37'01	1.31722 AU
desc. node	9406 Nov 12 20:11	17°♄42'44			9407 Oct 11 00:53	0°♄	
	9406 Nov 21 01:37	0°♄		evening rise	9407 Oct 14 01:40	6°♄30'20	
evening max el	9406 Dec 01 21:12	12°♄37'35	27°29'46		9407 Oct 26 09:56	0°♄	
retrograde	9406 Dec 15 15:58	19°♄55'50		desc. node	9407 Oct 30 17:18	6°♄55'50	
evening set	9406 Dec 22 17:06	17°♄29'20		evening max el	9407 Nov 14 03:35	25°♄01'24	27°07'59
min. Earth dist.	9406 Dec 26 10:14	14°♄25'03	0.62844 AU		9407 Nov 20 15:36	0°♄	
inferior conj	9406 Dec 29 05:37	11°♄41'49	-2°25'02	retrograde	9407 Nov 28 01:00	2°♄12'18	
minimum elong	9406 Dec 29 10:19	11°♄30'24	2°22'53	evening set	9407 Dec 05 00:21	0°♄03'39	
morning rise	9407 Jan 05 05:43	6°♄31'01			9407 Dec 05 02:46	30°♄♂	
asc. node	9407 Jan 05 14:46	6°♄23'39		min. Earth dist.	9407 Dec 08 18:15	27°♄20'50	0.60814 AU
direct	9407 Jan 07 13:02	6°♄06'17		inferior conj	9407 Dec 11 21:06	24°♄41'15	-3°37'39
morning max el	9407 Jan 14 05:03	9°♄31'28	17°47'27	minimum elong	9407 Dec 12 04:02	24°♄26'26	3°35'03
	9407 Jan 27 20:14	0°♄		morning rise	9407 Dec 19 10:10	19°♄49'59	
morning set	9407 Jan 30 06:34	4°♄15'28		direct	9407 Dec 21 14:25	19°♄30'55	
desc. node	9407 Feb 08 19:35	20°♄44'49		asc. node	9407 Dec 23 11:51	19°♄45'53	
superior conj	9407 Feb 11 02:31	24°♄35'08	-0°16'57	morning max el	9407 Dec 28 19:55	23°♄08'12	17°58'21
minimum elong	9407 Feb 11 00:48	24°♄28'00	0°16'29		9408 Jan 03 05:50	0°♄	
	9407 Feb 14 09:17	0°♄		morning set	9408 Jan 13 11:06	17°♄45'29	
max. Earth dist.	9407 Feb 17 16:11	5°♄19'31	1.44076 AU		9408 Jan 20 03:56	0°♄	
evening rise	9407 Feb 26 02:52	18°♄36'18		superior conj	9408 Jan 23 16:00	6°♄13'26	0°22'38
	9407 Mar 05 14:47	0°♄		minimum elong	9408 Jan 23 17:51	6°♄21'34	0°22'36
	9407 Mar 27 15:46	0°♄		desc. node	9408 Jan 26 16:30	11°♄27'48	
evening max el	9407 Mar 28 02:50	0°♄28'27	21°05'34	max. Earth dist.	9408 Jan 31 05:36	19°♄07'18	1.42405 AU
asc. node	9407 Apr 03 13:21	5°♄07'54		evening rise	9408 Feb 06 01:59	28°♄36'15	
retrograde	9407 Apr 05 16:41	5°♄30'47			9408 Feb 06 23:09	0°♄	
evening set	9407 Apr 09 21:55	3°♄50'53			9408 Feb 27 06:37	0°♄	
	9407 Apr 13 11:14	30°♄♂		evening max el	9408 Mar 09 21:09	14°♄11'30	22°21'47
inferior conj	9407 Apr 15 04:57	27°♄38'19	3°00'28	retrograde	9408 Mar 19 13:42	19°♄55'37	
minimum elong	9407 Apr 15 03:13	27°♄44'18	3°00'03	asc. node	9408 Mar 20 10:31	19°♄51'52	
min. Earth dist.	9407 Apr 15 14:15	27°♄06'03	0.68257 AU	evening set	9408 Mar 24 05:49	18°♄00'30	
morning rise	9407 Apr 20 08:17	21°♄23'20		inferior conj	9408 Mar 29 13:44	11°♄38'41	2°34'47
direct	9407 Apr 25 15:01	19°♄03'43		minimum elong	9408 Mar 29 11:35	11°♄46'12	2°34'13
morning max el	9407 May 06 04:05	25°♄20'42	23°28'43	min. Earth dist.	9408 Mar 29 10:27	11°♄50'07	0.68536 AU

morning rise	9408 Apr 03 17:11	5° Υ 28'36		min. Earth dist.	9409 Mar 13 07:04	26° X 34'48	0.68386 AU
direct	9408 Apr 08 10:08	3° Υ 29'48		morning rise	9409 Mar 19 04:27	19° X 38'45	
morning max el	9408 Apr 17 16:13	8° Υ 54'28	22°00'26	direct	9409 Mar 23 07:51	18° X 02'15	
desc. node	9408 Apr 23 16:41	15° Υ 47'58		morning max el	9409 Mar 31 10:29	22° X 39'38	20°40'23
	9408 May 04 02:19	0° B			9409 Apr 06 17:29	0° Υ	
morning set	9408 May 20 13:37	25° B 09'13		desc. node	9409 Apr 10 13:34	5° Υ 09'44	
	9408 May 23 13:14	0° Π			9409 Apr 27 09:03	0° B	
max. Earth dist.	9408 May 26 04:24	4° Π 21'25	1.41361 AU	morning set	9409 Apr 29 21:15	3° B 52'43	
				max. Earth dist.	9409 May 08 10:36	17° B 25'49	1.43304 AU
superior conj	9408 Jun 02 21:55	17° Π 38'18	-1°46'29				
minimum elong	9408 Jun 03 04:03	18° Π 05'24	1°46'11	superior conj	9409 May 15 02:14	28° B 22'17	-2°06'50
	9408 Jun 09 18:13	0° B		minimum elong	9409 May 15 06:39	28° B 40'45	2°06'53
evening rise	9408 Jun 13 12:08	6° B 55'48			9409 May 16 01:31	0° Π	
asc. node	9408 Jun 16 09:16	12° B 15'04		evening rise	9409 May 27 06:03	19° Π 22'20	
	9408 Jun 27 07:24	0° Ω			9409 Jun 02 07:36	0° B	
evening max el	9408 Jun 29 14:58	2° Ω 35'34	18°14'10	asc. node	9409 Jun 03 06:19	1° B 36'55	
retrograde	9408 Jul 06 17:45	6° Ω 10'55		evening max el	9409 Jun 13 03:25	15° B 40'41	18°04'46
evening set	9408 Jul 09 01:04	5° Ω 49'02		retrograde	9409 Jun 19 16:12	19° B 02'41	
inferior conj	9408 Jul 16 05:38	1° Ω 05'28	1°17'05	evening set	9409 Jun 22 07:08	18° B 29'43	
minimum elong	9408 Jul 16 07:59	1° Ω 00'23	1°16'00	inferior conj	9409 Jun 28 19:19	13° B 26'25	2°19'42
	9408 Jul 17 11:39	30° R B		minimum elong	9409 Jun 28 22:12	13° B 19'11	2°18'38
min. Earth dist.	9408 Jul 19 14:28	28° B 11'43	0.59223 AU	min. Earth dist.	9409 Jul 01 21:18	10° B 22'56	0.61485 AU
desc. node	9408 Jul 20 16:05	27° B 20'48		morning rise	9409 Jul 05 10:57	7° B 24'53	
morning rise	9408 Jul 23 11:44	25° B 26'33		desc. node	9409 Jul 07 13:10	6° B 11'47	
direct	9408 Jul 29 19:30	23° B 36'51		direct	9409 Jul 12 03:04	5° B 07'03	
	9408 Aug 11 16:06	0° Ω		morning max el	9409 Jul 26 08:38	13° B 07'50	27°56'12
morning max el	9408 Aug 13 04:20	1° Ω 25'37	27°31'54		9409 Aug 08 19:40	0° Ω	
	9408 Sep 02 18:28	0° B			9409 Aug 26 04:20	0° B	
asc. node	9408 Sep 12 09:04	18° B 20'41		morning set	9409 Aug 28 16:53	5° B 05'49	
morning set	9408 Sep 13 14:24	20° B 53'32		asc. node	9409 Aug 30 05:58	8° B 18'20	
	9408 Sep 17 19:56	0° B		max. Earth dist.	9409 Sep 03 10:16	17° B 15'39	1.31859 AU
max. Earth dist.	9408 Sep 20 02:27	5° B 01'08	1.31555 AU				
superior conj	9408 Sep 20 16:06	6° B 16'59	1°15'03	superior conj	9409 Sep 05 02:21	20° B 55'23	0°56'01
minimum elong	9408 Sep 20 13:53	6° B 04'39	1°14'44	minimum elong	9409 Sep 05 00:14	20° B 43'43	0°55'33
evening rise	9408 Sep 27 09:57	21° B 05'52			9409 Sep 09 05:12	0° B	
	9408 Oct 01 17:00	0° B		evening rise	9409 Sep 11 20:48	5° B 45'34	
desc. node	9408 Oct 16 14:26	25° B 22'41			9409 Sep 24 12:05	0° B	
	9408 Oct 20 02:34	0° A		desc. node	9409 Oct 03 11:35	12° B 44'41	
evening max el	9408 Oct 26 02:37	6° A 35'12	26°12'13	evening max el	9409 Oct 07 17:25	17° B 18'28	24°48'11
retrograde	9408 Nov 09 00:30	13° A 39'18		retrograde	9409 Oct 21 13:07	24° B 15'33	
evening set	9408 Nov 15 12:17	11° A 58'01		evening set	9409 Oct 27 00:28	23° B 08'22	
min. Earth dist.	9408 Nov 19 15:38	9° A 23'25	0.58720 AU	min. Earth dist.	9409 Nov 01 04:44	20° B 23'30	0.56789 AU
inferior conj	9408 Nov 22 19:19	7° A 03'16	-4°44'14	inferior conj	9409 Nov 03 21:27	18° B 39'01	-5°30'38
minimum elong	9408 Nov 23 02:51	6° A 49'15	4°42'11	minimum elong	9409 Nov 04 01:48	18° B 31'57	5°29'59
morning rise	9408 Nov 30 19:49	2° A 34'27		morning rise	9409 Nov 12 05:24	14° B 32'45	
direct	9408 Dec 03 01:11	2° A 17'48		direct	9409 Nov 14 17:10	14° B 15'28	
asc. node	9408 Dec 09 08:54	4° A 41'29		morning max el	9409 Nov 24 03:26	18° B 44'38	19°22'08
morning max el	9408 Dec 11 04:36	6° A 16'02	18°29'19	asc. node	9409 Nov 26 05:54	20° B 57'54	
	9408 Dec 26 05:19	0° B			9409 Dec 02 13:40	0° A	
morning set	9408 Dec 27 04:11	1° B 49'45		morning set	9409 Dec 11 05:49	16° A 16'36	
					9409 Dec 18 02:43	0° B	
superior conj	9409 Jan 05 03:25	18° B 53'50	0°54'22	superior conj	9409 Dec 19 07:44	2° B 22'07	1°17'25
minimum elong	9409 Jan 05 06:36	19° B 08'37	0°54'13	minimum elong	9409 Dec 19 10:43	2° B 36'38	1°17'24
	9409 Jan 11 07:18	0° \approx		max. Earth dist.	9409 Dec 25 20:03	14° B 40'22	1.38157 AU
max. Earth dist.	9409 Jan 12 14:19	2° \approx 14'51	1.40351 AU	evening rise	9409 Dec 29 13:42	21° B 20'58	
desc. node	9409 Jan 12 13:26	2° \approx 11'01		desc. node	9409 Dec 30 10:23	22° B 51'03	
evening rise	9409 Jan 16 21:01	9° \approx 29'59			9410 Jan 03 15:42	0° \approx	
	9409 Jan 29 22:40	0° X			9410 Jan 23 22:10	0° X	
evening max el	9409 Feb 20 11:56	27° X 56'42	23°42'01	evening max el	9410 Feb 03 01:10	11° X 44'40	24°59'53
	9409 Feb 22 16:26	0° Υ		retrograde	9410 Feb 14 22:02	18° X 38'41	
retrograde	9409 Mar 03 07:48	4° Υ 19'54		evening set	9410 Feb 20 14:20	16° X 16'56	
asc. node	9409 Mar 07 07:42	3° Υ 03'23		asc. node	9410 Feb 22 04:50	14° X 44'23	
evening set	9409 Mar 08 11:48	2° Υ 10'26		min. Earth dist.	9410 Feb 25 01:55	11° X 15'55	0.67827 AU
	9409 Mar 10 15:13	30° R X		inferior conj	9410 Feb 26 04:47	9° X 47'40	1°16'16
inferior conj	9409 Mar 13 22:18	25° X 42'44	1°59'55	minimum elong	9410 Feb 26 03:06	9° X 53'12	1°15'47
minimum elong	9409 Mar 13 20:08	25° X 50'09	1°59'17	morning rise	9410 Mar 03 16:10	3° X 51'10	

direct	9410 Mar 07 06:58	2° X 35'59		asc. node	9411 Feb 09 01:58	25° \approx 19'57	
morning max el	9410 Mar 14 12:34	6° X 36'55	19°33'25	inferior conj	9411 Feb 10 07:15	23° \approx 49'08	0°24'03
greatest brilliancy	9410 Mar 27 05:04	23° X 11'17	-0.7m	minimum elong	9411 Feb 10 06:37	23° \approx 51'05	0°24'00
desc. node	9410 Mar 28 10:25	24° X 59'55		morning rise	9411 Feb 16 02:15	18° \approx 01'54	
	9410 Mar 31 18:27	0° Y		direct	9411 Feb 19 05:53	17° \approx 05'25	
morning set	9410 Apr 08 19:29	12° Y 17'05		morning max el	9411 Feb 25 21:57	20° \approx 42'12	18°41'59
	9410 Apr 20 04:26	0° Z			9411 Mar 05 07:56	0° X	
max. Earth dist.	9410 Apr 20 23:14	1° Z 14'13	1.44728 AU	desc. node	9411 Mar 15 07:15	15° X 10'28	
				morning set	9411 Mar 19 08:14	21° X 30'13	
superior conj	9410 Apr 25 06:06	8° Z 03'43	-2°12'09		9411 Mar 24 18:20	0° Y	
minimum elong	9410 Apr 25 04:35	7° Z 57'38	2°12'19	max. Earth dist.	9411 Apr 03 16:32	15° Y 31'39	1.45489 AU
	9410 May 08 14:42	0° II					
evening rise	9410 May 09 03:38	0° II 54'16		superior conj	9411 Apr 04 15:22	17° Y 01'03	-1°57'36
asc. node	9410 May 21 03:24	20° II 34'11		minimum elong	9411 Apr 04 07:09	16° Y 28'54	1°57'07
evening max el	9410 May 27 16:58	29° II 03'53	18°14'15		9411 Apr 12 21:16	0° Z	
	9410 May 28 17:04	0° III		evening rise	9411 Apr 20 01:29	11° Z 26'09	
retrograde	9410 Jun 03 01:59	2° III 26'46		greatest brilliancy	9411 Apr 27 10:49	23° Z 16'13	-0.9m
evening set	9410 Jun 06 00:29	1° III 40'40			9411 May 01 17:52	0° II	
	9410 Jun 08 10:06	30° R II		asc. node	9411 May 08 00:28	8° II 58'11	
inferior conj	9410 Jun 12 00:14	26° II 19'26	2°58'05	evening max el	9411 May 11 04:44	12° II 37'26	18°41'51
minimum elong	9410 Jun 12 02:23	26° II 13'26	2°57'24	retrograde	9411 May 17 19:00	16° II 14'27	
min. Earth dist.	9410 Jun 14 13:28	23° II 28'24	0.63633 AU	evening set	9411 May 21 01:14	15° II 13'49	
morning rise	9410 Jun 18 02:52	20° II 05'33		inferior conj	9411 May 26 16:25	9° II 36'06	3°16'53
desc. node	9410 Jun 24 10:13	17° II 28'35		minimum elong	9411 May 26 17:19	9° II 33'18	3°16'31
direct	9410 Jun 24 20:13	17° II 28'01		min. Earth dist.	9411 May 28 14:34	7° II 14'34	0.65475 AU
morning max el	9410 Jul 08 17:23	25° II 30'46	27°42'37	morning rise	9411 Jun 01 08:40	3° II 17'21	
	9410 Jul 12 20:07	0° III		direct	9411 Jun 07 21:01	0° II 31'50	
	9410 Aug 02 08:03	0° I		desc. node	9411 Jun 11 07:13	1° II 11'00	
morning set	9410 Aug 12 12:07	18° I 54'39		morning max el	9411 Jun 21 03:46	8° II 23'27	26°56'25
asc. node	9410 Aug 17 02:52	28° I 22'19			9411 Jul 07 23:29	0° III	
max. Earth dist.	9410 Aug 17 11:59	29° I 10'18	1.32652 AU		9411 Jul 25 17:25	0° I	
	9410 Aug 17 21:23	0° II		morning set	9411 Jul 26 21:10	2° I 12'03	
				max. Earth dist.	9411 Jul 31 04:17	10° I 38'56	1.33940 AU
superior conj	9410 Aug 20 09:15	5° II 20'05	0°32'19	asc. node	9411 Aug 03 23:48	18° I 28'35	
minimum elong	9410 Aug 20 07:46	5° II 12'09	0°31'52				
evening rise	9410 Aug 27 08:21	20° II 24'18		superior conj	9411 Aug 04 10:36	19° I 25'04	0°04'31
	9410 Aug 31 23:35	0° III		minimum elong	9411 Aug 04 10:22	19° I 23'53	0°04'15
evening max el	9410 Sep 19 04:20	27° III 31'17	23°09'22	behind sun begin	9411 Aug 04 04:52	18° I 55'04	
desc. node	9410 Sep 20 08:45	28° III 37'28		behind sun end	9411 Aug 04 15:53	19° I 52'45	
	9410 Sep 22 00:10	0° IV			9411 Aug 09 10:35	0° II	
retrograde	9410 Oct 02 13:22	4° IV 11'47		evening rise	9411 Aug 11 18:43	4° II 56'44	
evening set	9410 Oct 06 13:35	3° IV 36'42			9411 Aug 25 10:29	0° III	
min. Earth dist.	9410 Oct 13 13:36	0° IV 23'11	0.55339 AU	evening max el	9411 Aug 31 20:10	7° III 49'01	21°32'43
	9410 Oct 14 05:38	30° R III		desc. node	9411 Sep 07 05:55	12° III 31'08	
inferior conj	9410 Oct 15 04:02	29° III 27'22	-5°36'59	retrograde	9411 Sep 13 03:00	13° III 54'45	
minimum elong	9410 Oct 15 01:00	29° III 31'46	5°36'39	evening set	9411 Sep 15 18:32	13° III 38'48	
morning rise	9410 Oct 23 14:22	25° III 36'51		inferior conj	9411 Sep 24 21:57	9° III 41'36	-4°47'51
direct	9410 Oct 26 14:10	25° III 15'34		minimum elong	9411 Sep 24 12:45	9° III 54'28	4°45'44
	9410 Nov 06 02:31	0° IV		min. Earth dist.	9411 Sep 24 21:39	9° III 42'01	0.54671 AU
morning max el	9410 Nov 06 13:26	0° IV 25'08	20°37'29	morning rise	9411 Oct 03 07:55	5° III 51'44	
asc. node	9410 Nov 13 02:52	8° IV 19'24		direct	9411 Oct 06 23:47	5° III 22'37	
	9410 Nov 25 01:52	0° V		morning max el	9411 Oct 19 10:34	11° III 17'05	22°12'43
morning set	9410 Nov 25 12:58	0° V 57'06		asc. node	9411 Oct 30 23:48	26° III 31'26	
					9411 Nov 01 23:45	0° IV	
superior conj	9410 Dec 03 00:20	16° V 24'37	1°32'12	morning set	9411 Nov 09 23:23	15° IV 45'05	
minimum elong	9410 Dec 03 02:19	16° V 34'43	1°32'22		9411 Nov 16 15:58	0° V	
max. Earth dist.	9410 Dec 08 03:43	26° V 38'31	1.36078 AU				
	9410 Dec 09 21:47	0° VI		superior conj	9411 Nov 17 01:35	0° V 50'51	1°39'31
evening rise	9410 Dec 12 01:38	4° VI 02'27		minimum elong	9411 Nov 17 02:18	0° V 54'41	1°39'45
desc. node	9410 Dec 17 07:22	13° VI 23'24		max. Earth dist.	9411 Nov 20 18:13	8° V 32'26	1.34307 AU
	9410 Dec 27 14:08	0° VII		evening rise	9411 Nov 25 05:06	17° V 24'52	
evening max el	9411 Jan 16 14:24	25° \approx 32'13	26°08'15		9411 Dec 02 00:44	0° VI	
	9411 Jan 21 22:23	0° X		desc. node	9411 Dec 04 04:25	3° VI 43'24	
retrograde	9411 Jan 29 07:16	2° X 45'16			9411 Dec 21 22:00	0° VII	
evening set	9411 Feb 04 11:41	0° X 14'34		evening max el	9411 Dec 30 03:54	9° \approx 12'16	26°59'41
	9411 Feb 04 18:35	30° R \approx		retrograde	9412 Jan 12 10:43	16° \approx 32'49	
min. Earth dist.	9411 Feb 08 16:48	25° \approx 48'03	0.66884 AU	evening set	9412 Jan 19 01:57	13° \approx 58'04	

min. Earth dist.	9412 Jan 23 01:26	10°05'35	0.65578 AU	min. Earth dist.	9413 Jan 05 01:33	24°00'04	0.63931 AU
inferior conj	9412 Jan 25 03:32	7°42'34	-0°36'18	inferior conj	9413 Jan 07 15:04	21°21'13	-1°43'48
minimum elong	9412 Jan 25 04:34	7°39'35	0°35'36	minimum elong	9413 Jan 07 18:20	21°12'44	1°42'09
asc. node	9412 Jan 26 23:04	5°41'30		asc. node	9413 Jan 12 20:10	16°34'05	
morning rise	9412 Jan 31 08:26	2°07'06		morning rise	9413 Jan 14 07:47	16°00'34	
direct	9412 Feb 03 02:37	1°25'50		direct	9413 Jan 16 18:29	15°30'48	
morning max el	9412 Feb 09 12:41	4°49'55	18°07'11	morning max el	9413 Jan 23 06:02	18°52'35	17°49'36
	9412 Feb 26 17:30	0°			9413 Jan 31 11:26	0°	
morning set	9412 Feb 28 01:29	2°10'09		morning set	9413 Feb 08 22:41	14°11'51	
desc. node	9412 Mar 01 04:08	5°35'56		desc. node	9413 Feb 16 01:03	26°11'34	
					9413 Feb 18 08:08	0°	
superior conj	9412 Mar 13 22:08	25°58'51	-1°24'38	superior conj	9413 Feb 21 20:38	5°45'44	-0°41'57
minimum elong	9412 Mar 13 13:04	25°23'09	1°23'34	minimum elong	9413 Feb 21 16:01	5°26'59	0°41'08
	9412 Mar 16 11:32	0°			9413 Feb 27 07:46	14°31'37	1.44792 AU
max. Earth dist.	9412 Mar 16 12:21	0°03'12	1.45512 AU	max. Earth dist.	9413 Mar 09 05:58	0°	
evening rise	9412 Mar 30 01:32	21°08'26		evening rise	9413 Mar 09 13:38	0°29'28	
	9412 Apr 04 18:59	0°			9413 Mar 29 12:35	0°	
greatest brilliancy	9412 Apr 11 15:49	10°28'52	-0.7m		9413 Apr 06 14:58	9°56'46	20°25'45
evening max el	9412 Apr 23 12:31	26°16'02	19°26'19	evening max el	9413 Apr 10 18:42	13°22'44	
asc. node	9412 Apr 23 21:35	26°38'33		asc. node	9413 Apr 14 14:43	14°35'45	
	9412 Apr 28 19:16	0°		retrograde	9413 Apr 18 14:19	13°04'27	
retrograde	9412 Apr 30 16:04	0°19'05		evening set	9413 Apr 23 21:41	6°58'15	3°10'47
	9412 May 02 11:37	30°03'14		inferior conj	9413 Apr 23 20:23	7°02'43	3°10'28
evening set	9412 May 04 06:35	29°03'14		minimum elong	9413 Apr 24 14:31	6°00'37	0.67892 AU
inferior conj	9412 May 09 16:28	23°10'23	3°20'08	min. Earth dist.	9413 Apr 29 02:13	0°41'17	
minimum elong	9412 May 09 16:09	23°11'25	3°19'53	morning rise	9413 Apr 29 21:54	30°01'53	
min. Earth dist.	9412 May 10 23:29	21°28'36	0.66909 AU		9413 May 04 16:34	28°01'53	
morning rise	9412 May 15 01:21	16°51'16		direct	9413 May 10 01:16	0°	
direct	9412 May 21 04:05	14°09'17			9413 May 15 01:12	4°02'22	
desc. node	9412 May 28 04:13	16°52'04		desc. node	9413 May 15 23:19	4°57'04	24°20'31
morning max el	9412 Jun 02 13:52	21°34'42	25°45'46	morning max el	9413 Jun 04 06:07	0°	
	9412 Jun 09 21:28	0°			9413 Jun 20 16:26	26°27'38	
	9412 Jun 30 05:02	0°		morning set	9413 Jun 22 16:48	0°	
morning set	9412 Jul 08 16:12	14°46'59			9413 Jun 24 08:18	2°56'27	1.37822 AU
max. Earth dist.	9412 Jul 12 10:05	21°46'53	1.35701 AU	max. Earth dist.			
	9412 Jul 16 15:18	0°					
superior conj	9412 Jul 18 03:44	3°02'17	-0°26'31	superior conj	9413 Jul 01 09:22	16°03'52	-0°59'06
minimum elong	9412 Jul 18 05:19	3°10'20	0°26'29	minimum elong	9413 Jul 01 13:09	16°22'05	0°58'46
asc. node	9412 Jul 20 20:43	8°32'36		asc. node	9413 Jul 07 17:42	28°30'51	
evening rise	9412 Jul 26 01:46	19°15'58		evening rise	9413 Jul 08 11:39	0°	
	9412 Jul 31 11:22	0°			9413 Jul 10 03:01	3°15'29	
evening max el	9412 Aug 12 23:51	18°40'16	20°10'46	evening max el	9413 Jul 26 10:05	0°	
retrograde	9412 Aug 23 15:58	23°57'30		retrograde	9413 Jul 26 16:50	0°16'59	19°09'02
desc. node	9412 Aug 24 03:05	23°56'56		retrograde	9413 Aug 04 17:09	4°45'21	
evening set	9412 Aug 25 14:39	23°47'44		evening set	9413 Aug 06 14:07	4°34'32	
inferior conj	9412 Sep 03 16:25	19°49'13	-3°10'18	desc. node	9413 Aug 11 00:14	2°54'07	
minimum elong	9412 Sep 03 08:01	20°01'39	3°07'30	inferior conj	9413 Aug 15 01:11	0°22'27	-1°14'51
min. Earth dist.	9412 Sep 05 07:10	18°51'50	0.54942 AU	minimum elong	9413 Aug 14 21:54	0°28'00	1°13'44
morning rise	9412 Sep 12 00:21	15°39'37			9413 Aug 15 14:23	30°00'	
direct	9412 Sep 16 10:15	14°57'33		min. Earth dist.	9413 Aug 17 20:27	28°29'04	0.56116 AU
morning max el	9412 Sep 29 23:35	21°34'46	23°58'59	morning rise	9413 Aug 23 02:42	25°37'37	
	9412 Oct 07 07:07	0°		direct	9413 Aug 28 08:06	24°34'22	
asc. node	9412 Oct 16 20:44	15°21'10			9413 Sep 09 12:23	0°	
morning set	9412 Oct 24 11:07	0°34'08		morning max el	9413 Sep 11 12:11	1°47'33	25°40'41
	9412 Oct 24 04:42	0°			9413 Oct 01 07:16	0°	
superior conj	9412 Oct 31 08:32	15°31'24	1°40'09	asc. node	9413 Oct 03 17:40	4°39'02	
minimum elong	9412 Oct 31 08:03	15°28'49	1°40'20	morning set	9413 Oct 08 22:30	15°19'34	
max. Earth dist.	9412 Nov 02 17:01	20°35'56	1.32944 AU	superior conj	9413 Oct 15 18:53	0°19'24	1°34'43
	9412 Nov 07 05:00	0°		minimum elong	9413 Oct 15 17:26	0°11'27	1°34'45
evening rise	9412 Nov 07 20:19	1°17'32			9413 Oct 15 15:22	0°	
desc. node	9412 Nov 20 01:30	23°44'09		max. Earth dist.	9413 Oct 16 22:31	2°51'44	1.32032 AU
	9412 Nov 23 23:20	0°		evening rise	9413 Oct 22 20:08	15°32'23	
evening max el	9412 Dec 11 16:19	22°32'28	27°27'08		9413 Oct 30 04:42	0°	
retrograde	9412 Dec 25 07:36	29°52'31		desc. node	9413 Nov 06 22:35	13°17'44	
evening set	9413 Jan 01 06:43	27°20'24		evening max el	9413 Nov 19 00:34	0°	
					9413 Nov 24 01:24	5°19'42	27°24'31

retrograde	9413 Dec 07 21:22	12° ☿ 35'06		evening max el	9414 Nov 06 04:46	17° ☿ 23'04	26°48'18
evening set	9413 Dec 14 22:57	10° ☿ 14'36		retrograde	9414 Nov 20 03:00	24° ☿ 31'58	
min. Earth dist.	9413 Dec 18 15:34	7° ☿ 21'01	0.62004 AU	evening set	9414 Nov 26 22:42	22° ☿ 33'41	
inferior conj	9413 Dec 21 14:50	4° ☿ 37'22	-2°55'58	min. Earth dist.	9414 Nov 30 19:01	19° ☿ 56'22	0.59913 AU
minimum elong	9413 Dec 21 20:34	4° ☿ 24'10	2°53'31	inferior conj	9414 Dec 03 23:25	17° ☿ 22'39	-4°07'19
	9413 Dec 27 18:52	30° ☿		minimum elong	9414 Dec 04 06:56	17° ☿ 07'30	4°04'49
morning rise	9413 Dec 28 20:32	29° ☿ 34'49		morning rise	9414 Dec 11 17:44	12° ☿ 40'57	
asc. node	9413 Dec 30 17:16	29° ☿ 13'32		direct	9414 Dec 13 21:42	12° ☿ 23'26	
direct	9413 Dec 31 02:10	29° ☿ 12'55		asc. node	9414 Dec 17 14:21	13° ☿ 17'03	
	9414 Jan 03 07:35	0° ☿		morning max el	9414 Dec 21 11:39	16° ☿ 08'42	18°08'58
morning max el	9414 Jan 06 22:51	2° ☿ 41'50	17°49'47		9414 Dec 31 03:53	0° ☿	
morning set	9414 Jan 22 17:34	27° ☿ 14'58		morning set	9415 Jan 06 04:03	11° ☿ 01'49	
	9414 Jan 24 06:26	0° ☿					
superior conj	9414 Feb 02 19:48	16° ☿ 43'53	0°00'41	superior conj	9415 Jan 15 19:16	28° ☿ 51'11	0°37'07
minimum elong	9414 Feb 02 19:53	16° ☿ 44'15	0°00'53	minimum elong	9415 Jan 15 21:56	29° ☿ 03'08	0°37'00
behind sun begin	9414 Feb 02 11:13	16° ☿ 07'19			9415 Jan 16 10:38	0° ☿	
behind sun end	9414 Feb 03 04:33	17° ☿ 21'05		desc. node	9415 Jan 20 18:50	7° ☿ 37'00	
desc. node	9414 Feb 02 21:56	16° ☿ 53'00		max. Earth dist.	9415 Jan 23 10:23	12° ☿ 07'33	1.41561 AU
max. Earth dist.	9414 Feb 09 23:31	28° ☿ 37'16	1.43420 AU	evening rise	9415 Jan 28 11:44	20° ☿ 27'51	
	9414 Feb 10 19:57	0° ☿			9415 Feb 03 12:39	0° ☿	
evening rise	9414 Feb 17 04:42	10° ☿ 05'32			9415 Feb 24 16:56	0° ☿	
	9414 Mar 02 09:40	0° ☿		evening max el	9415 Mar 03 04:22	7° ☿ 22'19	22°55'46
evening max el	9414 Mar 20 11:50	23° ☿ 38'14	21°37'07	retrograde	9415 Mar 13 08:56	13° ☿ 24'17	
asc. node	9414 Mar 28 15:52	28° ☿ 55'05		asc. node	9415 Mar 15 13:02	13° ☿ 01'05	
retrograde	9414 Mar 29 12:54	28° ☿ 58'56		evening set	9415 Mar 18 05:53	11° ☿ 23'06	
evening set	9414 Apr 02 22:37	27° ☿ 12'24		inferior conj	9415 Mar 23 14:42	4° ☿ 58'10	2°21'07
inferior conj	9414 Apr 08 05:46	20° ☿ 55'14	2°50'45	minimum elong	9415 Mar 23 12:29	5° ☿ 05'52	2°20'29
minimum elong	9414 Apr 08 03:48	21° ☿ 02'04	2°50'15	min. Earth dist.	9415 Mar 23 06:19	5° ☿ 27'13	0.68522 AU
min. Earth dist.	9414 Apr 08 09:33	20° ☿ 42'02	0.68424 AU		9415 Mar 27 13:07	30° ☿	
morning rise	9414 Apr 13 08:49	14° ☿ 42'06		morning rise	9415 Mar 28 18:58	28° ☿ 50'14	
direct	9414 Apr 18 09:34	12° ☿ 31'12		direct	9415 Apr 02 06:02	27° ☿ 00'51	
morning max el	9414 Apr 28 09:35	18° ☿ 26'27	22°50'35		9415 Apr 08 17:29	0° ☿	
desc. node	9414 May 01 22:08	22° ☿ 17'02		morning max el	9415 Apr 10 23:54	2° ☿ 04'48	21°24'53
	9414 May 08 01:33	0° ☿		desc. node	9415 Apr 18 19:02	11° ☿ 18'23	
	9414 May 28 09:02	0° ☿			9415 May 01 22:50	0° ☿	
morning set	9414 Jun 01 16:28	7° ☿ 00'07		morning set	9415 May 12 13:25	16° ☿ 18'30	
max. Earth dist.	9414 Jun 06 04:59	14° ☿ 36'13	1.40093 AU	max. Earth dist.	9415 May 19 06:30	27° ☿ 07'39	1.42239 AU
					9415 May 21 00:12	0° ☿	
superior conj	9414 Jun 13 23:23	28° ☿ 19'42	-1°30'32	superior conj	9415 May 26 17:12	9° ☿ 40'06	-1°56'33
minimum elong	9414 Jun 14 05:04	28° ☿ 45'39	1°30'06	minimum elong	9415 May 26 23:05	10° ☿ 05'28	1°56'23
	9414 Jun 14 21:19	0° ☿		evening rise	9415 Jun 06 22:40	29° ☿ 39'34	
evening rise	9414 Jun 23 19:18	16° ☿ 46'32			9415 Jun 07 03:10	0° ☿	
asc. node	9414 Jun 24 14:42	18° ☿ 18'43		asc. node	9415 Jun 11 11:43	7° ☿ 51'46	
	9414 Jun 30 23:03	0° ☿		evening max el	9415 Jun 23 06:51	25° ☿ 26'54	18°07'51
evening max el	9414 Jul 09 20:27	12° ☿ 35'26	18°28'21	retrograde	9415 Jun 30 02:16	28° ☿ 54'26	
retrograde	9414 Jul 17 12:43	16° ☿ 25'44		evening set	9415 Jul 02 12:52	28° ☿ 28'08	
evening set	9414 Jul 19 15:31	16° ☿ 09'06		inferior conj	9415 Jul 09 10:02	23° ☿ 36'19	1°46'53
inferior conj	9414 Jul 27 07:03	11° ☿ 37'42	0°28'45	minimum elong	9415 Jul 09 12:50	23° ☿ 29'51	1°45'43
minimum elong	9414 Jul 27 08:05	11° ☿ 35'39	0°28'08	min. Earth dist.	9415 Jul 12 17:10	20° ☿ 35'15	0.60188 AU
desc. node	9414 Jul 28 21:23	10° ☿ 21'17		desc. node	9415 Jul 15 18:30	18° ☿ 11'32	
min. Earth dist.	9414 Jul 30 15:17	8° ☿ 59'50	0.57972 AU	morning rise	9415 Jul 16 09:56	17° ☿ 46'31	
morning rise	9414 Aug 03 21:06	6° ☿ 16'09		direct	9415 Jul 22 22:22	15° ☿ 43'46	
direct	9414 Aug 09 20:44	4° ☿ 43'52		morning max el	9415 Aug 06 06:10	23° ☿ 39'01	27°46'56
morning max el	9414 Aug 24 05:48	12° ☿ 23'15	27°00'45		9415 Aug 11 23:05	0° ☿	
	9414 Sep 07 01:42	0° ☿			9415 Aug 31 07:25	0° ☿	
asc. node	9414 Sep 20 14:36	24° ☿ 17'07		asc. node	9415 Sep 07 11:28	14° ☿ 09'04	
morning set	9414 Sep 23 07:51	29° ☿ 56'20		morning set	9415 Sep 07 13:22	14° ☿ 18'56	
	9414 Sep 23 08:33	0° ☿		max. Earth dist.	9415 Sep 13 17:01	27° ☿ 34'42	1.31619 AU
superior conj	9414 Sep 30 06:38	15° ☿ 08'31	1°23'45	superior conj	9415 Sep 14 17:56	29° ☿ 52'31	1°07'34
minimum elong	9414 Sep 30 04:35	14° ☿ 57'05	1°23'34	minimum elong	9415 Sep 14 15:42	29° ☿ 40'06	1°07'11
max. Earth dist.	9414 Sep 30 07:42	15° ☿ 14'26	1.31584 AU		9415 Sep 14 19:18	0° ☿	
evening rise	9414 Oct 07 01:56	0° ☿		evening rise	9415 Sep 21 11:31	14° ☿ 40'04	
	9414 Oct 07 01:32	0° ☿			9415 Sep 29 01:34	0° ☿	
	9414 Oct 23 08:21	0° ☿		desc. node	9415 Oct 11 16:51	20° ☿ 15'22	
desc. node	9414 Oct 24 19:42	2° ☿ 13'23		evening max el	9415 Oct 19 00:21	28° ☿ 35'06	25°39'29

	9415 Oct 20 13:51	0°♊		desc. node	9416 Sep 27 14:00	7°♍03'05	
retrograde	9415 Nov 01 22:14	5°♊36'34		evening max el	9416 Sep 29 12:49	9°♍02'32	24°07'00
evening set	9415 Nov 08 00:58	4°♊09'43		retrograde	9416 Oct 13 05:05	15°♍53'28	
min. Earth dist.	9415 Nov 12 12:48	1°♊32'53	0.57853 AU	evening set	9416 Oct 18 02:29	15°♍00'57	
	9415 Nov 14 18:11	30°♋♌		min. Earth dist.	9416 Oct 23 23:28	12°♍06'05	0.56099 AU
inferior conj	9415 Nov 15 13:20	29°♍26'12	-5°07'32	inferior conj	9416 Oct 26 06:46	10°♍41'22	-5°39'27
minimum elong	9415 Nov 15 20:07	29°♍14'19	5°06'03	minimum elong	9416 Oct 26 08:21	10°♍38'57	5°39'12
morning rise	9415 Nov 23 17:35	25°♍06'56		morning rise	9416 Nov 03 16:15	6°♍42'56	
direct	9415 Nov 26 00:50	24°♍50'27		direct	9416 Nov 06 08:46	6°♍24'11	
asc. node	9415 Dec 04 11:22	28°♍48'50		morning max el	9416 Nov 16 10:02	11°♍09'24	19°51'28
morning max el	9415 Dec 04 16:34	29°♍01'11	18°48'59	asc. node	9416 Nov 20 08:20	15°♍34'36	
	9415 Dec 05 15:44	0°♊			9416 Nov 29 05:36	0°♊	
morning set	9415 Dec 21 01:14	25°♊17'14		morning set	9416 Dec 04 05:33	9°♊50'57	
	9415 Dec 23 10:54	0°♋					
superior conj	9415 Dec 29 14:28	11°♋53'40	1°05'10	superior conj	9416 Dec 12 00:30	25°♊37'43	1°24'39
minimum elong	9415 Dec 29 17:43	12°♋09'01	1°05'04	minimum elong	9416 Dec 12 03:07	25°♊50'44	1°24'43
max. Earth dist.	9416 Jan 05 17:24	24°♋56'35	1.39424 AU		9416 Dec 14 05:47	0°♋	
desc. node	9416 Jan 07 15:45	28°♋19'28		max. Earth dist.	9416 Dec 17 23:41	7°♋09'28	1.37252 AU
	9416 Jan 08 15:05	0°♌		evening rise	9416 Dec 21 17:27	14°♋00'25	
evening rise	9416 Jan 09 16:10	1°♌47'01		desc. node	9416 Dec 24 12:44	18°♋56'40	
	9416 Jan 27 19:30	0°♌			9416 Dec 31 04:01	0°♌	
evening max el	9416 Feb 13 18:26	21°♌09'40	24°15'52	evening max el	9417 Jan 21 16:07	0°♌	
retrograde	9416 Feb 25 01:26	27°♌46'46			9417 Jan 26 07:41	4°♌58'29	25°30'31
evening set	9416 Mar 01 10:34	25°♌32'03		retrograde	9417 Feb 07 13:26	12°♌01'13	
asc. node	9416 Mar 01 10:12	25°♌32'49		evening set	9417 Feb 13 11:05	9°♌35'11	
min. Earth dist.	9416 Mar 06 02:30	20°♌10'59	0.68203 AU	asc. node	9417 Feb 16 07:21	6°♌41'07	
inferior conj	9416 Mar 06 22:37	19°♌03'15	1°42'29	min. Earth dist.	9417 Feb 17 19:51	4°♌49'02	0.67481 AU
minimum elong	9416 Mar 06 20:35	19°♌10'05	1°41'52	inferior conj	9417 Feb 19 03:37	3°♌07'08	0°55'09
morning rise	9416 Mar 12 06:41	13°♌02'05		minimum elong	9417 Feb 19 02:19	3°♌11'20	0°54'49
direct	9416 Mar 16 04:39	11°♌34'40			9417 Feb 21 16:47	30°♌	
morning max el	9416 Mar 23 21:17	15°♌54'51	20°09'59	morning rise	9417 Feb 24 17:58	27°♌14'25	
	9416 Apr 04 00:55	0°♍		direct	9417 Feb 28 03:56	26°♌07'28	
desc. node	9416 Apr 04 15:53	0°♍53'24		morning max el	9417 Mar 07 02:38	29°♌56'07	19°09'31
morning set	9416 Apr 20 14:14	24°♍45'31			9417 Mar 07 04:13	0°♌	
	9416 Apr 23 23:19	0°♎		greatest brilliancy	9417 Mar 20 07:46	17°♌32'36	-0.7m
max. Earth dist.	9416 Apr 30 15:37	10°♎32'44	1.43990 AU	desc. node	9417 Mar 22 12:45	20°♌53'03	
					9417 Mar 28 11:18	0°♍	
superior conj	9416 May 06 11:03	19°♎57'22	-2°11'18	morning set	9417 Mar 30 16:00	3°♍23'35	
minimum elong	9416 May 06 13:25	20°♎07'03	2°11'29	max. Earth dist.	9417 Apr 13 07:08	24°♍37'47	1.45145 AU
	9416 May 12 11:51	0°♏					
evening rise	9416 May 19 08:26	11°♏43'57		superior conj	9417 Apr 16 05:36	29°♍15'48	-2°08'30
asc. node	9416 May 28 08:45	27°♏04'15		minimum elong	9417 Apr 16 00:54	28°♍57'10	2°08'28
	9416 May 30 05:01	0°♐			9417 Apr 16 16:46	0°♎	
evening max el	9416 Jun 05 20:13	8°♐41'27	18°06'36	evening rise	9417 Apr 30 20:08	22°♎50'32	
retrograde	9416 Jun 12 06:02	12°♐01'48			9417 May 05 04:32	0°♏	
evening set	9416 Jun 15 00:19	11°♐23'17		asc. node	9417 May 15 05:50	15°♏48'28	
inferior conj	9416 Jun 21 06:42	6°♐12'05	2°38'40	evening max el	9417 May 20 09:18	22°♏09'42	18°23'49
minimum elong	9416 Jun 21 09:23	6°♐05'03	2°37'45	retrograde	9417 May 26 19:27	25°♏37'06	
min. Earth dist.	9416 Jun 24 03:42	3°♐11'42	0.62431 AU	evening set	9417 May 29 21:15	24°♏44'47	
morning rise	9416 Jun 27 16:35	0°♐04'33		inferior conj	9417 Jun 04 16:52	19°♏16'04	3°08'11
	9416 Jun 27 19:06	30°♑♒		minimum elong	9417 Jun 04 18:30	19°♏11'16	3°07'40
desc. node	9416 Jul 01 15:34	28°♒01'42		min. Earth dist.	9417 Jun 06 23:40	16°♒36'14	0.64461 AU
direct	9416 Jul 04 10:13	27°♒37'07		morning rise	9417 Jun 10 14:44	12°♒59'24	
	9416 Jul 11 15:30	0°♓		direct	9417 Jun 17 06:29	10°♒17'24	
morning max el	9416 Jul 18 12:28	5°♓39'13	27°54'51	desc. node	9417 Jun 18 12:38	10°♒22'38	
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morning set	9416 Aug 21 13:02	28°♑22'14			9417 Jul 10 18:46	0°♓	
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asc. node	9416 Aug 24 08:21	4°♒10'10		morning set	9417 Aug 05 04:19	11°♑58'33	
max. Earth dist.	9416 Aug 26 22:46	9°♒42'37	1.32139 AU	max. Earth dist.	9417 Aug 09 21:05	21°♑27'47	1.33145 AU
				asc. node	9417 Aug 11 05:14	24°♑15'24	
superior conj	9416 Aug 29 03:00	14°♒26'13	0°46'31				
minimum elong	9416 Aug 29 01:05	14°♒15'44	0°46'03	superior conj	9417 Aug 13 07:47	28°♑42'58	0°20'59
evening rise	9416 Sep 04 22:55	29°♒20'41		minimum elong	9417 Aug 13 06:46	28°♑37'31	0°20'35
	9416 Sep 05 06:15	0°♓			9417 Aug 13 22:13	0°♒	
	9416 Sep 21 21:28	0°♓		evening rise	9417 Aug 20 10:11	13°♒57'24	
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































































































































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desc. node	9417 Sep 14 11:11	22° Ω 08'50		behind sun end	9418 Jul 28 11:29	13° Ω 05'09	
retrograde	9417 Sep 24 00:04	25° Ω 40'06		asc. node	9418 Jul 29 02:10	14° Ω 21'04	
evening set	9417 Sep 27 09:21	25° Ω 14'48		evening rise	9418 Aug 04 19:25	28° Ω 24'48	
min. Earth dist.	9417 Oct 05 07:11	21° Ω 44'40	0.54948 AU		9418 Aug 05 13:47	0° Π	
inferior conj	9417 Oct 06 06:33	21° Ω 11'39	-5°23'07	evening max el	9418 Aug 23 20:39	29° Π 40'28	20°55'29
minimum elong	9417 Oct 06 00:16	21° Ω 20'31	5°22'11		9418 Aug 24 04:40	0° Ω	
morning rise	9417 Oct 14 16:58	17° Ω 24'13		desc. node	9418 Sep 01 08:22	5° Ω 01'58	
direct	9417 Oct 17 23:20	17° Ω 00'09		retrograde	9418 Sep 04 12:21	5° Ω 27'06	
morning max el	9417 Oct 29 14:16	22° Ω 27'58	21°16'04	evening set	9418 Sep 06 18:11	5° Ω 15'07	
	9417 Nov 04 23:50	0° Π		inferior conj	9418 Sep 15 22:51	1° Ω 18'51	-4°10'52
asc. node	9417 Nov 07 05:16	3° Π 18'45		minimum elong	9418 Sep 15 13:07	1° Ω 32'41	4°08'07
morning set	9417 Nov 18 14:20	24° Π 35'13		min. Earth dist.	9418 Sep 16 15:47	0° Ω 54'48	0.54665 AU
	9417 Nov 21 04:19	0° Σ			9418 Sep 18 07:00	30° Π	
				morning rise	9418 Sep 24 08:15	27° Π 22'49	
superior conj	9417 Nov 25 21:10	9° Σ 51'22	1°36'10	direct	9418 Sep 28 07:15	26° Π 49'11	
minimum elong	9417 Nov 25 22:38	9° Σ 58'55	1°36'22		9418 Oct 07 12:50	0° Ω	
max. Earth dist.	9417 Nov 30 09:53	19° Σ 03'22	1.35274 AU	morning max el	9418 Oct 11 07:16	3° Ω 02'57	22°57'31
evening rise	9417 Dec 04 12:24	26° Σ 59'54		asc. node	9418 Oct 25 02:12	21° Ω 47'52	
	9417 Dec 06 03:01	0° Σ			9418 Oct 29 11:33	0° Π	
desc. node	9417 Dec 11 09:45	9° Σ 24'18		morning set	9418 Nov 03 01:29	9° Π 23'54	
	9417 Dec 24 12:44	0° \approx					
evening max el	9418 Jan 08 20:57	18° \approx 43'35	26°32'36	superior conj	9418 Nov 10 01:09	24° Π 24'36	1°40'33
retrograde	9418 Jan 21 20:19	26° \approx 01'15		minimum elong	9418 Nov 10 01:21	24° Π 25'39	1°40'48
evening set	9418 Jan 28 05:43	23° \approx 27'46			9418 Nov 12 16:24	0° Σ	
min. Earth dist.	9418 Feb 01 08:14	19° \approx 16'12	0.66371 AU	max. Earth dist.	9418 Nov 13 03:36	0° Σ 58'37	1.33663 AU
inferior conj	9418 Feb 03 03:45	17° \approx 05'54	-0°00'36	evening rise	9418 Nov 17 21:14	10° Σ 35'58	
minimum elong	9418 Feb 03 03:45	17° \approx 05'53	0°00'21	desc. node	9418 Nov 28 06:48	29° Σ 36'42	
transit middle	9418 Feb 03 03:45	17° \approx 05'53	0°00'21		9418 Nov 28 12:20	0° Σ	
transit begin	9418 Feb 03 00:51	17° \approx 14'37			9418 Dec 20 03:52	0° \approx	
transit end	9418 Feb 03 06:40	16° \approx 57'10		evening max el	9418 Dec 22 09:58	2° \approx 15'51	27°14'46
asc. node	9418 Feb 03 04:28	17° \approx 03'44		retrograde	9419 Jan 04 21:17	9° \approx 38'03	
morning rise	9418 Feb 09 02:44	11° \approx 23'40		evening set	9419 Jan 11 16:18	7° \approx 03'15	
direct	9418 Feb 12 02:07	10° \approx 34'11		min. Earth dist.	9419 Jan 15 13:31	3° \approx 24'55	0.64905 AU
morning max el	9418 Feb 18 14:44	14° \approx 04'06	18°25'13	inferior conj	9419 Jan 17 20:39	0° \approx 53'39	-1°04'13
	9418 Mar 02 07:48	0° X		minimum elong	9419 Jan 17 22:35	0° \approx 48'20	1°03'06
desc. node	9418 Mar 09 09:36	11° X 10'50			9419 Jan 18 16:19	30° X	
morning set	9418 Mar 10 16:18	13° X 12'52		asc. node	9419 Jan 21 01:36	27° Σ 36'46	
	9418 Mar 21 07:04	0° Υ		morning rise	9419 Jan 24 06:24	25° Σ 24'17	
				direct	9419 Jan 26 21:00	24° Σ 48'33	
superior conj	9418 Mar 26 11:33	8° Υ 07'40	-1°45'29	morning max el	9419 Feb 02 06:59	28° Σ 10'46	17°57'38
minimum elong	9418 Mar 26 02:04	7° Υ 30'37	1°44'40		9419 Feb 03 23:31	0° \approx	
max. Earth dist.	9418 Mar 27 02:07	9° Υ 04'38	1.45587 AU	morning set	9419 Feb 19 22:00	24° \approx 29'13	
	9418 Apr 09 10:29	0° X			9419 Feb 23 05:57	0° X	
evening rise	9418 Apr 11 08:13	3° X 00'11		desc. node	9419 Feb 24 06:28	1° X 40'53	
greatest brilliancy	9418 Apr 21 03:53	18° X 25'38	-0.8m				
	9418 Apr 29 00:15	0° Π		superior conj	9419 Mar 05 23:14	17° X 22'02	-1°07'07
asc. node	9418 May 02 02:57	3° Π 55'48		minimum elong	9419 Mar 05 15:43	16° X 52'07	1°06'03
evening max el	9418 May 03 19:34	5° Π 46'04	18°58'42	max. Earth dist.	9419 Mar 09 21:31	23° X 34'50	1.45285 AU
retrograde	9418 May 10 14:43	9° Π 33'10			9419 Mar 13 23:58	0° Υ	
evening set	9418 May 14 00:18	8° Π 26'13		evening rise	9419 Mar 22 01:30	12° Υ 28'44	
inferior conj	9418 May 19 12:50	2° Π 41'40	3°19'57		9419 Apr 02 13:37	0° X	
minimum elong	9418 May 19 13:12	2° Π 40'29	3°19'40	greatest brilliancy	9419 Apr 05 08:45	4° X 08'59	-0.6m
min. Earth dist.	9418 May 21 04:27	0° Π 36'08	0.66137 AU	evening max el	9419 Apr 17 01:10	19° X 25'50	19°49'54
	9418 May 21 16:09	30° X		asc. node	9419 Apr 19 00:06	21° X 14'14	
morning rise	9418 May 25 01:34	26° X 22'03		retrograde	9419 Apr 24 12:45	23° X 43'27	
direct	9418 May 31 10:07	23° X 36'51		evening set	9419 Apr 28 06:54	22° X 21'15	
desc. node	9418 Jun 05 09:39	24° X 59'35		inferior conj	9419 May 03 15:26	16° X 22'36	3°17'34
	9418 Jun 12 00:37	0° Π		minimum elong	9419 May 03 14:40	16° X 25'10	3°17'18
morning max el	9418 Jun 13 09:06	1° Π 19'50	26°28'45	min. Earth dist.	9419 May 04 16:22	14° X 59'00	0.67384 AU
	9418 Jul 04 20:26	0° X		morning rise	9419 May 08 22:06	10° X 03'54	
morning set	9418 Jul 19 07:57	24° X 59'29		direct	9419 May 14 19:49	7° X 26'04	
	9418 Jul 21 22:54	0° Ω		desc. node	9419 May 23 06:38	11° X 21'53	
max. Earth dist.	9418 Jul 23 08:57	2° Ω 46'19	1.34638 AU	morning max el	9419 May 26 18:51	14° X 36'37	25°10'34
					9419 Jun 08 08:28	0° Π	
superior conj	9418 Jul 28 05:59	12° Ω 36'45	-0°08'22		9419 Jun 27 16:46	0° X	
minimum elong	9418 Jul 28 06:28	12° Ω 39'14	0°08'32	morning set	9419 Jul 01 19:41	7° X 13'31	

max. Earth dist.	9419 Jul 05 10:29	13° $\overline{54}$ 49'38	1.36568 AU		9420 Jun 19 00:33	0° $\overline{56}$	
superior conj	9419 Jul 11 18:42	26° $\overline{50}$ 00'15	-0°40'17	superior conj	9420 Jun 23 18:18	8° $\overline{56}$ 44'04	-1°12'47
minimum elong	9419 Jul 11 21:13	26° $\overline{50}$ 12'38	0°40'07	minimum elong	9420 Jun 23 22:59	9° $\overline{56}$ 06'07	1°12'22
	9419 Jul 13 18:53	0° $\overline{59}$		asc. node	9420 Jul 01 20:08	24° $\overline{56}$ 17'49	
asc. node	9419 Jul 15 23:09	4° $\overline{59}$ 23'21		evening rise	9420 Jul 02 22:13	26° $\overline{56}$ 25'06	
evening rise	9419 Jul 20 00:21	12° $\overline{59}$ 36'35			9420 Jul 04 18:30	0° $\overline{59}$	
	9419 Jul 29 05:08	0° $\overline{59}$		evening max el	9420 Jul 19 04:21	22° $\overline{59}$ 47'40	18°49'11
evening max el	9419 Aug 06 06:18	10° $\overline{59}$ 51'48	19°41'58	retrograde	9420 Jul 27 13:26	26° $\overline{59}$ 57'42	
retrograde	9419 Aug 16 05:01	15° $\overline{59}$ 47'04		evening set	9420 Jul 29 12:36	26° $\overline{59}$ 44'48	
evening set	9419 Aug 18 01:27	15° $\overline{59}$ 37'36		desc. node	9420 Aug 05 02:42	23° $\overline{59}$ 30'07	
desc. node	9419 Aug 19 05:33	15° $\overline{59}$ 22'19		inferior conj	9420 Aug 06 15:30	22° $\overline{59}$ 24'51	-0°28'14
inferior conj	9419 Aug 26 22:09	11° $\overline{59}$ 34'56	-2°21'29	minimum elong	9420 Aug 06 14:20	22° $\overline{59}$ 26'58	0°27'59
minimum elong	9419 Aug 26 15:45	11° $\overline{59}$ 44'55	2°19'12	min. Earth dist.	9420 Aug 09 18:16	20° $\overline{59}$ 10'38	0.56845 AU
min. Earth dist.	9419 Aug 29 03:04	10° $\overline{59}$ 12'41	0.55339 AU	morning rise	9420 Aug 14 12:43	17° $\overline{59}$ 24'15	
morning rise	9419 Sep 04 03:58	7° $\overline{59}$ 11'15		direct	9420 Aug 20 02:33	16° $\overline{59}$ 09'16	
direct	9419 Sep 08 22:15	6° $\overline{59}$ 20'58		morning max el	9420 Sep 03 09:14	23° $\overline{59}$ 34'06	26°18'14
morning max el	9419 Sep 22 19:12	13° $\overline{59}$ 15'16	24°43'48		9420 Sep 09 04:51	0° $\overline{59}$	
	9419 Oct 05 19:04	0° $\overline{59}$		asc. node	9420 Sep 27 20:03	0° $\overline{59}$ 18'07	
asc. node	9419 Oct 11 23:08	10° $\overline{59}$ 50'52			9420 Sep 27 16:25	0° $\overline{59}$	
morning set	9419 Oct 18 13:16	24° $\overline{59}$ 12'15		morning set	9420 Oct 01 23:59	8° $\overline{59}$ 54'29	
	9419 Oct 21 05:38	0° $\overline{59}$					
superior conj	9419 Oct 25 09:50	9° $\overline{59}$ 09'40	1°38'33	superior conj	9420 Oct 08 21:00	23° $\overline{59}$ 58'42	1°30'43
minimum elong	9419 Oct 25 08:55	9° $\overline{59}$ 04'37	1°38'41	minimum elong	9420 Oct 08 19:15	23° $\overline{59}$ 49'00	1°30'40
max. Earth dist.	9419 Oct 27 05:27	13° $\overline{59}$ 07'25	1.32496 AU	max. Earth dist.	9420 Oct 09 13:05	25° $\overline{59}$ 27'51	1.31790 AU
evening rise	9419 Nov 01 16:31	24° $\overline{59}$ 39'45			9420 Oct 11 14:26	0° $\overline{59}$	
	9419 Nov 04 08:22	0° $\overline{59}$		evening rise	9420 Oct 15 19:12	9° $\overline{59}$ 02'00	
desc. node	9419 Nov 15 03:54	19° $\overline{59}$ 27'16			9420 Oct 26 16:48	0° $\overline{59}$	
	9419 Nov 22 01:33	0° $\overline{59}$		desc. node	9420 Nov 01 01:00	8° $\overline{59}$ 46'11	
evening max el	9419 Dec 04 21:25	15° $\overline{59}$ 24'19	27°30'07	evening max el	9420 Nov 16 04:37	27° $\overline{59}$ 54'41	27°13'19
retrograde	9419 Dec 18 15:27	22° $\overline{59}$ 42'56			9420 Nov 18 13:22	0° $\overline{59}$	
evening set	9419 Dec 25 16:11	20° $\overline{59}$ 14'50		retrograde	9420 Nov 30 01:33	5° $\overline{59}$ 06'25	
min. Earth dist.	9419 Dec 29 09:42	17° $\overline{59}$ 06'28	0.63135 AU	evening set	9420 Dec 07 01:51	2° $\overline{59}$ 54'24	
inferior conj	9420 Jan 01 03:35	14° $\overline{59}$ 24'04	-2°14'05		9420 Dec 10 23:36	30° $\overline{59}$ 42'11	
minimum elong	9420 Jan 01 07:55	14° $\overline{59}$ 13'22	2°12'03	min. Earth dist.	9420 Dec 10 19:15	0° $\overline{59}$ 09'10	0.61130 AU
asc. node	9420 Jan 07 22:41	9° $\overline{59}$ 13'19		inferior conj	9420 Dec 13 21:19	27° $\overline{59}$ 28'09	-3°26'47
morning rise	9420 Jan 08 01:44	9° $\overline{59}$ 10'28		minimum elong	9420 Dec 14 03:58	27° $\overline{59}$ 13'38	3°24'12
direct	9420 Jan 10 09:51	8° $\overline{59}$ 44'31		morning rise	9420 Dec 21 08:30	22° $\overline{59}$ 33'48	
morning max el	9420 Jan 17 00:28	12° $\overline{59}$ 08'37	17°47'24	direct	9420 Dec 23 13:02	22° $\overline{59}$ 14'04	
	9420 Jan 29 04:31	0° $\overline{59}$		asc. node	9420 Dec 24 19:45	22° $\overline{59}$ 21'02	
morning set	9420 Feb 02 05:14	6° $\overline{59}$ 59'26		morning max el	9420 Dec 30 15:54	25° $\overline{59}$ 48'45	17°55'30
desc. node	9420 Feb 11 03:22	22° $\overline{59}$ 19'10			9421 Jan 03 05:05	0° $\overline{59}$	
				morning set	9421 Jan 15 07:25	20° $\overline{59}$ 23'03	
superior conj	9420 Feb 14 07:42	27° $\overline{59}$ 37'39	-0°23'25		9421 Jan 20 14:18	0° $\overline{59}$	
minimum elong	9420 Feb 14 05:16	27° $\overline{59}$ 27'34	0°22'51	superior conj	9421 Jan 25 17:32	9° $\overline{59}$ 05'46	0°17'05
	9420 Feb 15 18:16	0° $\overline{59}$		minimum elong	9421 Jan 25 19:00	9° $\overline{59}$ 12'08	0°17'08
max. Earth dist.	9420 Feb 20 15:21	7° $\overline{59}$ 54'12	1.44283 AU	desc. node	9421 Jan 28 00:15	13° $\overline{59}$ 01'49	
evening rise	9420 Feb 29 12:55	21° $\overline{59}$ 51'19		max. Earth dist.	9421 Feb 02 05:34	21° $\overline{59}$ 47'43	1.42682 AU
	9420 Mar 05 21:09	0° $\overline{59}$			9421 Feb 07 07:15	0° $\overline{59}$	
	9420 Mar 27 05:17	0° $\overline{59}$		evening rise	9421 Feb 08 09:35	1° $\overline{59}$ 44'19	
evening max el	9420 Mar 30 01:18	3° $\overline{59}$ 07'06	20°54'57		9421 Feb 27 08:49	0° $\overline{59}$	
asc. node	9420 Apr 04 21:16	7° $\overline{59}$ 29'40		evening max el	9421 Mar 12 20:12	16° $\overline{59}$ 49'43	22°10'04
retrograde	9420 Apr 07 11:19	8° $\overline{59}$ 03'04		retrograde	9421 Mar 22 08:38	22° $\overline{59}$ 27'46	
evening set	9420 Apr 11 15:05	6° $\overline{59}$ 25'22		asc. node	9421 Mar 22 18:25	22° $\overline{59}$ 26'56	
inferior conj	9420 Apr 16 22:07	0° $\overline{59}$ 14'27	3°03'30	evening set	9421 Mar 26 23:07	20° $\overline{59}$ 34'45	
minimum elong	9420 Apr 16 20:29	0° $\overline{59}$ 20'04	3°03'06	inferior conj	9421 Apr 01 06:46	14° $\overline{59}$ 14'01	2°39'19
	9420 Apr 17 02:18	30° $\overline{59}$ 42'11		minimum elong	9421 Apr 01 04:39	14° $\overline{59}$ 21'25	2°38'45
min. Earth dist.	9420 Apr 17 09:21	29° $\overline{59}$ 35'37	0.68178 AU	min. Earth dist.	9421 Apr 01 05:16	14° $\overline{59}$ 19'17	0.68519 AU
morning rise	9420 Apr 22 01:41	23° $\overline{59}$ 59'00		morning rise	9421 Apr 06 10:02	8° $\overline{59}$ 03'13	
direct	9420 Apr 27 10:28	21° $\overline{59}$ 36'39		direct	9421 Apr 11 04:59	6° $\overline{59}$ 01'17	
morning max el	9420 May 08 04:05	28° $\overline{59}$ 00'58	23°42'11	morning max el	9421 Apr 20 15:38	11° $\overline{59}$ 33'41	22°13'17
desc. node	9420 May 09 03:35	29° $\overline{59}$ 01'44		desc. node	9421 Apr 26 00:29	17° $\overline{59}$ 37'56	
	9420 May 10 01:13	0° $\overline{59}$			9421 May 05 05:58	0° $\overline{59}$	
	9420 Jun 01 00:56	0° $\overline{59}$		morning set	9421 May 23 22:49	28° $\overline{59}$ 27'23	
morning set	9420 Jun 12 10:15	18° $\overline{59}$ 26'32			9421 May 24 21:38	0° $\overline{59}$	
max. Earth dist.	9420 Jun 16 07:02	25° $\overline{59}$ 08'02	1.38788 AU	max. Earth dist.	9421 May 29 05:51	7° $\overline{59}$ 11'11	1.41039 AU

superior conj	9421 Jun 06 00:22	20° Π 38'05	-1°42'32		9422 May 17 10:32	0° Π	
minimum elong	9421 Jun 06 06:27	21° Π 05'14	1°42'10				
	9421 Jun 11 04:23	0° \mathfrak{E}		superior conj	9422 May 18 08:11	1° Π 31'08	-2°04'34
evening rise	9421 Jun 16 09:36	9° \mathfrak{E} 41'54		minimum elong	9422 May 18 13:08	1° Π 51'59	2°04'34
asc. node	9421 Jun 18 17:09	14° \mathfrak{E} 00'25		evening rise	9422 May 30 06:03	22° Π 15'19	
	9421 Jun 28 02:25	0° Ω			9422 Jun 03 14:56	0° \mathfrak{E}	
evening max el	9421 Jul 02 11:19	5° Ω 21'33	18°17'09	asc. node	9422 Jun 05 14:11	3° \mathfrak{E} 25'19	
retrograde	9421 Jul 09 17:17	9° Ω 00'24		evening max el	9422 Jun 15 23:19	18° \mathfrak{E} 23'10	18°04'59
evening set	9421 Jul 11 23:21	8° Ω 40'01		retrograde	9422 Jun 22 13:34	21° \mathfrak{E} 46'15	
inferior conj	9421 Jul 19 06:42	3° Ω 59'27	1°05'14	evening set	9422 Jun 25 03:20	21° \mathfrak{E} 15'09	
minimum elong	9421 Jul 19 08:46	3° Ω 55'03	1°04'13	inferior conj	9422 Jul 01 17:43	16° \mathfrak{E} 14'49	2°11'49
min. Earth dist.	9421 Jul 22 15:41	1° Ω 09'10	0.58893 AU	minimum elong	9422 Jul 01 20:38	16° \mathfrak{E} 07'40	2°10'43
desc. node	9421 Jul 22 23:50	0° Ω 52'58		min. Earth dist.	9422 Jul 04 21:17	13° \mathfrak{E} 11'07	0.61149 AU
	9421 Jul 24 03:45	30° \mathfrak{R} \mathfrak{E}		morning rise	9422 Jul 08 11:28	10° \mathfrak{E} 15'53	
morning rise	9421 Jul 26 14:54	28° \mathfrak{E} 24'39		desc. node	9422 Jul 09 20:56	9° \mathfrak{E} 25'24	
direct	9421 Aug 01 20:41	26° \mathfrak{E} 39'33		direct	9422 Jul 15 02:49	8° \mathfrak{E} 01'39	
	9421 Aug 10 23:17	0° Ω		morning max el	9422 Jul 29 09:13	16° \mathfrak{E} 01'37	27°55'01
morning max el	9421 Aug 16 05:50	4° Ω 26'04	27°25'00		9422 Aug 09 20:03	0° Ω	
	9421 Sep 04 01:06	0° \mathfrak{M}			9422 Aug 27 15:26	0° \mathfrak{M}	
asc. node	9421 Sep 14 16:57	20° \mathfrak{M} 02'51		morning set	9422 Aug 31 11:18	7° \mathfrak{M} 41'17	
morning set	9421 Sep 16 07:57	23° \mathfrak{M} 25'57		asc. node	9422 Sep 01 13:50	9° \mathfrak{M} 59'14	
	9421 Sep 19 09:26	0° \mathfrak{L}		max. Earth dist.	9422 Sep 06 07:18	20° \mathfrak{M} 08'04	1.31778 AU
superior conj	9421 Sep 23 08:46	8° \mathfrak{L} 46'05	1°17'30	superior conj	9422 Sep 07 19:22	23° \mathfrak{M} 26'16	0°59'13
minimum elong	9421 Sep 23 06:35	8° \mathfrak{L} 33'54	1°17'13	minimum elong	9422 Sep 07 17:12	23° \mathfrak{M} 14'19	0°58'47
max. Earth dist.	9421 Sep 22 22:59	7° \mathfrak{L} 51'41	1.31549 AU		9422 Sep 10 18:39	0° \mathfrak{L}	
evening rise	9421 Sep 30 02:52	23° \mathfrak{L} 35'51		evening rise	9422 Sep 14 13:27	8° \mathfrak{L} 15'21	
	9421 Oct 03 04:23	0° \mathfrak{M}			9422 Sep 25 16:50	0° \mathfrak{M}	
desc. node	9421 Oct 18 22:08	27° \mathfrak{M} 20'58		desc. node	9422 Oct 05 19:17	14° \mathfrak{M} 54'32	
	9421 Oct 20 20:15	0° \mathfrak{J}		evening max el	9422 Oct 10 20:42	20° \mathfrak{M} 26'23	25°02'07
evening max el	9421 Oct 29 04:43	9° \mathfrak{J} 35'43	26°22'29	retrograde	9422 Oct 24 17:20	27° \mathfrak{M} 25'03	
retrograde	9421 Nov 12 02:42	16° \mathfrak{J} 41'10		evening set	9422 Oct 30 08:59	26° \mathfrak{M} 12'43	
evening set	9421 Nov 18 16:59	14° \mathfrak{J} 55'07		min. Earth dist.	9422 Nov 04 08:18	23° \mathfrak{M} 30'31	0.57049 AU
min. Earth dist.	9421 Nov 22 18:00	12° \mathfrak{J} 20'28	0.59026 AU	inferior conj	9422 Nov 07 03:33	21° \mathfrak{M} 39'45	-5°25'47
inferior conj	9421 Nov 25 22:16	9° \mathfrak{J} 56'11	-4°35'05	minimum elong	9422 Nov 07 08:42	21° \mathfrak{M} 31'14	5°24'54
minimum elong	9421 Nov 26 05:55	9° \mathfrak{J} 41'41	4°32'53	morning rise	9422 Nov 15 10:43	17° \mathfrak{M} 30'17	
morning rise	9421 Dec 03 21:19	5° \mathfrak{J} 24'09		direct	9422 Nov 17 21:02	17° \mathfrak{M} 13'22	
direct	9421 Dec 06 02:10	5° \mathfrak{J} 07'23		morning max el	9422 Nov 27 02:22	21° \mathfrak{M} 37'35	19°12'49
asc. node	9421 Dec 11 16:47	7° \mathfrak{J} 03'11		asc. node	9422 Nov 28 13:46	23° \mathfrak{M} 08'45	
morning max el	9421 Dec 14 01:47	9° \mathfrak{J} 01'50	18°23'23		9422 Dec 03 16:53	0° \mathfrak{J}	
	9421 Dec 27 15:35	0° \mathfrak{Z}		morning set	9422 Dec 13 23:32	18° \mathfrak{J} 47'38	
morning set	9421 Dec 29 22:55	4° \mathfrak{Z} 23'05			9422 Dec 19 14:39	0° \mathfrak{Z}	
superior conj	9422 Jan 08 02:00	21° \mathfrak{Z} 38'05	0°50'06	superior conj	9422 Dec 22 04:10	5° \mathfrak{Z} 00'39	1°14'27
minimum elong	9422 Jan 08 05:06	21° \mathfrak{Z} 52'21	0°49'58	minimum elong	9422 Dec 22 07:15	5° \mathfrak{Z} 15'32	1°14'24
	9422 Jan 12 17:30	0° \approx		max. Earth dist.	9422 Dec 28 20:38	17° \mathfrak{Z} 32'23	1.38484 AU
desc. node	9422 Jan 14 21:08	3° \approx 45'15		evening rise	9423 Jan 01 15:02	24° \mathfrak{Z} 13'02	
max. Earth dist.	9422 Jan 15 14:46	5° \approx 01'10	1.40668 AU	desc. node	9423 Jan 01 18:05	24° \mathfrak{Z} 26'16	
evening rise	9422 Jan 20 01:22	12° \approx 29'29			9423 Jan 05 00:27	0° \approx	
	9422 Jan 31 04:29	0° \mathfrak{H}			9423 Jan 24 22:15	0° \mathfrak{H}	
	9422 Feb 22 21:47	0° \mathfrak{Y}		evening max el	9423 Feb 06 00:41	14° \mathfrak{H} 22'07	24°48'40
evening max el	9422 Feb 23 11:16	0° \mathfrak{Y} 34'09	23°30'05	retrograde	9423 Feb 17 18:11	21° \mathfrak{H} 12'16	
retrograde	9422 Mar 06 03:18	6° \mathfrak{Y} 52'18		evening set	9423 Feb 23 08:35	18° \mathfrak{H} 52'18	
asc. node	9422 Mar 09 15:34	5° \mathfrak{Y} 52'43		asc. node	9423 Feb 24 12:42	17° \mathfrak{H} 46'34	
evening set	9422 Mar 11 05:27	4° \mathfrak{Y} 44'52		min. Earth dist.	9423 Feb 27 21:16	13° \mathfrak{H} 45'58	0.67939 AU
	9422 Mar 15 09:28	30° \mathfrak{R} \mathfrak{H}		inferior conj	9423 Feb 28 22:22	12° \mathfrak{H} 22'53	1°23'28
min. Earth dist.	9422 Mar 16 01:57	29° \mathfrak{H} 03'59	0.68431 AU	minimum elong	9423 Feb 28 20:35	12° \mathfrak{H} 28'49	1°22'56
inferior conj	9422 Mar 16 15:27	28° \mathfrak{H} 17'38	2°05'48	morning rise	9423 Mar 06 08:49	6° \mathfrak{H} 25'00	
minimum elong	9422 Mar 16 13:15	28° \mathfrak{H} 25'11	2°05'09	direct	9423 Mar 10 01:25	5° \mathfrak{H} 06'44	
morning rise	9422 Mar 21 21:02	22° \mathfrak{H} 12'37		morning max el	9423 Mar 17 09:41	9° \mathfrak{H} 12'23	19°42'20
direct	9422 Mar 26 02:21	20° \mathfrak{H} 32'53		greatest brilliancy	9423 Mar 30 03:39	25° \mathfrak{H} 47'25	-0.6m
morning max el	9422 Apr 03 08:49	25° \mathfrak{H} 16'57	20°51'33	desc. node	9423 Mar 30 18:11	26° \mathfrak{H} 40'47	
	9422 Apr 07 14:06	0° \mathfrak{Y}			9423 Apr 01 23:54	0° \mathfrak{Y}	
desc. node	9422 Apr 12 21:20	6° \mathfrak{Y} 54'25		morning set	9423 Apr 12 07:28	15° \mathfrak{Y} 40'37	
	9422 Apr 28 15:52	0° \mathfrak{B}			9423 Apr 21 12:25	0° \mathfrak{B}	
morning set	9422 May 03 09:28	7° \mathfrak{B} 18'28		max. Earth dist.	9423 Apr 23 22:11	3° \mathfrak{B} 48'08	1.44558 AU
max. Earth dist.	9422 May 11 10:41	20° \mathfrak{B} 06'35	1.43040 AU				

superior conj	9423 Apr 28 15:31	11°♄21'01	-2°12'33			9424 Mar 25 02:00	0°♄	
minimum elong	9423 Apr 28 15:06	11°♄19'19	2°12'46	max. Earth dist.		9424 Apr 05 15:10	18°♄03'02	1.45426 AU
	9423 May 09 23:05	0°♄						
evening rise	9423 May 12 06:51	3°♄55'13		superior conj		9424 Apr 07 02:49	20°♄22'50	-2°01'07
asc. node	9423 May 23 11:14	22°♄26'30		minimum elong		9424 Apr 06 19:22	19°♄53'35	2°00'45
	9423 May 28 22:28	0°♄				9424 Apr 13 05:14	0°♄	
evening max el	9423 May 30 12:55	1°♄44'02	18°11'47	evening rise		9424 Apr 22 08:21	14°♄36'02	
retrograde	9423 Jun 05 21:51	5°♄05'47		greatest brilliancy		9424 Apr 28 10:45	24°♄26'27	-0.9m
evening set	9423 Jun 08 19:15	4°♄21'41				9424 May 01 22:27	0°♄	
	9423 Jun 13 23:48	30°♄		asc. node		9424 May 09 08:20	10°♄56'09	
inferior conj	9423 Jun 14 20:37	29°♄03'08	2°53'35	evening max el		9424 May 13 01:08	15°♄16'33	18°36'40
minimum elong	9423 Jun 14 22:55	28°♄56'48	2°52'51	retrograde		9424 May 19 14:01	18°♄50'32	
min. Earth dist.	9423 Jun 17 12:00	26°♄09'01	0.63328 AU	evening set		9424 May 22 19:08	17°♄52'02	
morning rise	9423 Jun 21 01:03	22°♄50'40		inferior conj		9424 May 28 11:21	12°♄16'37	3°15'05
desc. node	9423 Jun 26 18:00	20°♄18'45		minimum elong		9424 May 28 12:27	12°♄13'16	3°14'41
direct	9423 Jun 27 18:44	20°♄15'17		min. Earth dist.		9424 May 30 11:46	9°♄50'01	0.65224 AU
morning max el	9423 Jul 11 17:20	28°♄18'23	27°46'53	morning rise		9424 Jun 03 04:58	5°♄58'22	
	9423 Jul 13 08:24	0°♄		direct		9424 Jun 09 18:24	3°♄13'24	
	9423 Aug 03 15:41	0°♄		desc. node		9424 Jun 12 15:03	3°♄40'40	
morning set	9423 Aug 15 07:45	21°♄33'59		morning max el		9424 Jun 23 03:36	11°♄07'09	27°05'07
asc. node	9423 Aug 19 10:44	0°♄02'30				9424 Jul 08 02:42	0°♄	
	9423 Aug 19 10:15	0°♄				9424 Jul 26 04:05	0°♄	
max. Earth dist.	9423 Aug 20 10:05	2°♄05'54	1.32498 AU	morning set		9424 Jul 28 18:33	4°♄56'24	
				max. Earth dist.		9424 Aug 02 04:03	13°♄38'50	1.33717 AU
superior conj	9423 Aug 23 02:54	7°♄53'33	0°36'13	asc. node		9424 Aug 05 07:39	20°♄08'32	
minimum elong	9423 Aug 23 01:17	7°♄44'50	0°35'45					
evening rise	9423 Aug 30 01:01	22°♄54'41		superior conj		9424 Aug 06 05:15	22°♄01'45	0°08'59
	9423 Sep 02 10:18	0°♄		minimum elong		9424 Aug 06 04:47	21°♄59'20	0°08'40
	9423 Sep 21 14:48	0°♄		behind sun begin		9424 Aug 06 00:01	21°♄34'15	
evening max el	9423 Sep 22 07:50	0°♄42'14	23°24'28	behind sun end		9424 Aug 06 09:33	22°♄24'27	
desc. node	9423 Sep 22 16:29	1°♄02'54				9424 Aug 09 23:20	0°♄	
retrograde	9423 Oct 05 19:14	7°♄25'51		evening rise		9424 Aug 13 11:43	7°♄28'24	
evening set	9423 Oct 10 01:01	6°♄46'40				9424 Aug 25 10:07	0°♄	
min. Earth dist.	9423 Oct 16 17:41	3°♄38'27	0.55513 AU	evening max el		9424 Sep 02 22:21	10°♄56'32	21°46'25
inferior conj	9423 Oct 18 12:51	2°♄34'59	-5°39'26	desc. node		9424 Sep 08 13:40	15°♄16'29	
minimum elong	9423 Oct 18 11:04	2°♄37'37	5°39'13	retrograde		9424 Sep 15 09:51	17°♄08'31	
	9423 Oct 23 07:09	30°♄		evening set		9424 Sep 18 05:39	16°♄50'34	
morning rise	9423 Oct 26 23:03	28°♄42'41		inferior conj		9424 Sep 27 07:53	12°♄52'15	-4°58'53
direct	9423 Oct 29 20:49	28°♄22'09		minimum elong		9424 Sep 26 23:14	13°♄04'21	4°57'05
	9423 Nov 04 23:36	0°♄		min. Earth dist.		9424 Sep 27 01:27	13°♄01'15	0.54716 AU
morning max el	9423 Nov 09 14:21	3°♄25'21	20°24'49	morning rise		9424 Oct 05 18:01	9°♄03'46	
asc. node	9423 Nov 15 10:44	10°♄21'16		direct		9424 Oct 09 07:28	8°♄36'02	
	9423 Nov 26 13:28	0°♄		morning max el		9424 Oct 21 13:10	14°♄23'24	21°57'32
morning set	9423 Nov 28 06:04	3°♄26'40		asc. node		9424 Nov 01 07:42	28°♄26'08	
						9424 Nov 02 06:02	0°♄	
superior conj	9423 Dec 05 19:13	18°♄58'41	1°30'27	morning set		9424 Nov 11 16:07	18°♄13'33	
minimum elong	9423 Dec 05 21:23	19°♄09'38	1°30'34			9424 Nov 17 05:15	0°♄	
max. Earth dist.	9423 Dec 11 03:47	29°♄33'38	1.36378 AU					
	9423 Dec 11 09:18	0°♄		superior conj		9424 Nov 18 19:22	3°♄21'29	1°38'50
evening rise	9423 Dec 15 00:24	6°♄47'46		minimum elong		9424 Nov 18 20:18	3°♄26'19	1°39'05
desc. node	9423 Dec 19 15:05	15°♄00'03		max. Earth dist.		9424 Nov 22 17:12	11°♄27'02	1.34550 AU
	9423 Dec 28 19:48	0°♄		evening rise		9424 Nov 27 01:45	20°♄04'04	
evening max el	9424 Jan 19 14:00	28°♄10'32	25°58'54			9424 Dec 02 10:21	0°♄	
	9424 Jan 21 13:12	0°♄		desc. node		9424 Dec 05 12:08	5°♄21'51	
retrograde	9424 Feb 01 04:11	5°♄21'05				9424 Dec 21 19:49	0°♄	
evening set	9424 Feb 07 06:50	2°♄51'35		evening max el		9425 Jan 01 03:32	11°♄52'03	26°53'20
	9424 Feb 10 03:25	30°♄		retrograde		9425 Jan 14 08:28	19°♄11'48	
asc. node	9424 Feb 11 09:50	28°♄29'22		evening set		9425 Jan 20 22:18	16°♄37'13	
min. Earth dist.	9424 Feb 11 12:56	28°♄19'52	0.67055 AU	min. Earth dist.		9425 Jan 24 22:34	12°♄39'53	0.65798 AU
inferior conj	9424 Feb 13 01:36	26°♄25'18	0°32'32	inferior conj		9425 Jan 26 22:58	10°♄19'58	-0°26'39
minimum elong	9424 Feb 13 00:46	26°♄27'52	0°32'24	minimum elong		9425 Jan 26 23:43	10°♄17'47	0°26'04
morning rise	9424 Feb 18 19:19	20°♄36'27		asc. node		9425 Jan 28 06:59	8°♄48'50	
direct	9424 Feb 22 00:34	19°♄37'18		morning rise		9425 Feb 02 02:16	4°♄42'40	
morning max el	9424 Feb 28 18:04	23°♄16'43	18°48'32	direct		9425 Feb 04 21:47	3°♄59'20	
	9424 Mar 05 08:30	0°♄		morning max el		9425 Feb 11 08:12	7°♄24'27	18°11'19
desc. node	9424 Mar 16 15:03	16°♄48'41				9425 Feb 27 01:01	0°♄	
morning set	9424 Mar 21 16:53	24°♄43'21		morning set		9425 Mar 02 05:45	5°♄10'10	

desc. node	9425 Mar 03 11:55	7° K 12'02			9426 Feb 01 15:23	0° \approx	
			morning set		9426 Feb 11 23:07	17° \approx 00'44	
superior conj	9425 Mar 17 08:46	29° K 17'16 -1°30'30	desc. node		9426 Feb 18 08:46	27° \approx 46'11	
minimum elong	9425 Mar 16 23:23	28° K 40'23 1°29'29			9426 Feb 19 17:04	0° K	
	9425 Mar 17 19:39	0° Y					
max. Earth dist.	9425 Mar 19 11:11	2° Y 34'55 1.45557 AU	superior conj		9426 Feb 25 04:07	8° K 54'59 -0°48'38	
evening rise	9425 Apr 02 11:20	24° Y 24'48	minimum elong		9426 Feb 24 22:42	8° K 33'08 0°47'44	
	9425 Apr 06 01:34	0° B	max. Earth dist.		9426 Mar 02 06:42	17° K 04'28 1.44942 AU	
greatest brilliancy	9425 Apr 14 09:05	12° B 47'42 -0.7m			9426 Mar 10 13:24	0° Y	
asc. node	9425 Apr 26 05:28	28° B 43'56	evening rise		9426 Mar 13 00:20	3° Y 46'43	
evening max el	9425 Apr 26 09:38	28° B 54'34 19°18'38			9426 Mar 30 14:01	0° B	
	9425 Apr 27 13:04	0° II	evening max el		9426 Apr 09 12:54	12° B 35'00 20°15'58	
retrograde	9425 May 03 10:44	2° II 53'06	asc. node		9426 Apr 13 02:37	15° B 37'41	
evening set	9425 May 06 23:58	1° II 39'30	retrograde		9426 Apr 17 09:22	17° B 08'23	
	9425 May 08 22:24	30° R B	evening set		9426 Apr 21 07:29	15° B 39'27	
inferior conj	9425 May 12 10:26	25° B 48'40 3°20'30	inferior conj		9426 Apr 26 15:04	9° B 35'01 3°12'56	
minimum elong	9425 May 12 10:18	25° B 49'06 3°20'14	minimum elong		9426 Apr 26 13:54	9° B 39'00 3°12'37	
min. Earth dist.	9425 May 13 19:37	24° B 00'39 0.66724 AU	min. Earth dist.		9426 Apr 27 09:57	8° B 30'39 0.67778 AU	
morning rise	9425 May 17 20:14	19° B 29'19	morning rise		9426 May 01 20:04	3° B 17'27	
direct	9425 May 24 00:33	16° B 46'20	direct		9426 May 07 12:20	0° B 45'42	
desc. node	9425 May 30 12:03	19° B 05'47	desc. node		9426 May 17 08:59	6° B 04'16	
morning max el	9425 Jun 05 13:58	24° B 16'38 25°57'29	morning max el		9426 May 18 23:32	7° B 38'00 24°33'39	
	9425 Jun 10 17:11	0° II			9426 Jun 05 10:44	0° II	
	9425 Jul 01 12:51	0° B	morning set		9426 Jun 23 19:17	29° II 27'27	
morning set	9425 Jul 11 15:56	17° B 37'56			9426 Jun 24 02:42	0° B	
max. Earth dist.	9425 Jul 15 11:28	24° B 49'01 1.35413 AU	max. Earth dist.		9426 Jun 27 10:18	5° B 55'32 1.37493 AU	
	9425 Jul 18 03:15	0° B					
superior conj	9425 Jul 20 23:45	5° B 42'59 -0°21'40	superior conj		9426 Jul 04 07:19	18° B 50'02 -0°54'11	
minimum elong	9425 Jul 21 01:03	5° B 49'32 0°21'42	minimum elong		9426 Jul 04 10:46	19° B 06'45 0°53'52	
asc. node	9425 Jul 23 04:36	10° B 12'48	asc. node		9426 Jul 09 23:11	0° B	
evening rise	9425 Jul 28 19:23	21° B 49'34	evening rise		9426 Jul 10 01:34	0° B 11'55	
	9425 Aug 01 20:42	0° B			9426 Jul 12 21:41	5° B 52'07	
evening max el	9425 Aug 15 23:54	21° B 40'41 20°21'44	evening max el		9426 Jul 26 19:44	0° B	
desc. node	9425 Aug 26 10:52	27° B 05'14	retrograde		9426 Jul 29 14:59	3° B 10'05 19°16'51	
retrograde	9425 Aug 26 22:18	27° B 05'49	evening set		9426 Aug 07 20:59	7° B 45'14	
evening set	9425 Aug 28 22:17	26° B 55'44	desc. node		9426 Aug 09 17:26	7° B 34'59	
inferior conj	9425 Sep 07 01:16	22° B 58'05 -3°27'06	inferior conj		9426 Aug 13 08:02	6° B 22'08	
minimum elong	9425 Sep 06 16:19	23° B 11'09 3°24'11	minimum elong		9426 Aug 18 07:12	3° B 25'35 -1°32'03	
min. Earth dist.	9425 Sep 08 10:32	22° B 09'27 0.54838 AU	min. Earth dist.		9426 Aug 18 03:07	3° B 32'22 1°30'38	
morning rise	9425 Sep 15 09:41	18° B 52'41			9426 Aug 20 23:18	1° B 39'52 0.55888 AU	
direct	9425 Sep 19 16:40	18° B 13'06	morning rise		9426 Aug 23 18:16	30° R B	
morning max el	9425 Oct 03 02:59	24° B 44'19 23°43'08	direct		9426 Aug 26 09:58	28° B 46'14	
	9425 Oct 07 23:31	0° B			9426 Aug 31 12:26	27° B 46'36	
asc. node	9425 Oct 19 04:38	17° B 10'27	morning max el		9426 Sep 08 04:39	0° B	
	9425 Oct 25 17:08	0° B			9426 Sep 14 15:11	4° B 55'30 25°26'39	
morning set	9425 Oct 27 03:47	3° B 02'35	asc. node		9426 Oct 02 15:34	0° B	
			morning set		9426 Oct 06 01:32	6° B 24'08	
superior conj	9425 Nov 03 01:38	18° B 00'13 1°40'26			9426 Oct 11 15:16	17° B 48'29	
minimum elong	9425 Nov 03 01:19	17° B 58'34 1°40'39			9426 Oct 17 05:16	0° B	
max. Earth dist.	9425 Nov 05 14:45	23° B 28'18 1.33113 AU	superior conj		9426 Oct 18 11:35	2° B 47'19 1°35'54	
	9425 Nov 08 17:37	0° B	minimum elong		9426 Oct 18 10:16	2° B 40'04 1°35'59	
evening rise	9425 Nov 10 15:23	3° B 52'26	max. Earth dist.		9426 Oct 19 19:15	5° B 41'29 1.32129 AU	
desc. node	9425 Nov 22 09:13	25° B 25'56	evening rise		9426 Oct 25 14:04	18° B 04'11	
	9425 Nov 25 04:36	0° B			9426 Oct 31 14:43	0° B	
evening max el	9425 Dec 14 16:07	25° B 15'38 27°24'50	desc. node		9426 Nov 09 06:19	15° B 24'11	
	9425 Dec 20 14:00	0° \approx			9426 Nov 19 17:00	0° B	
retrograde	9425 Dec 28 06:27	2° \approx 36'31	evening max el		9426 Nov 27 01:49	8° B 08'26 27°27'07	
evening set	9426 Jan 04 04:43	0° \approx 03'18	retrograde		9426 Dec 10 21:30	15° B 25'09	
	9426 Jan 04 06:30	30° R B	evening set		9426 Dec 17 23:04	13° B 02'16	
min. Earth dist.	9426 Jan 08 00:04	26° B 38'34 0.64194 AU	min. Earth dist.		9426 Dec 21 15:42	10° B 05'12 0.62300 AU	
inferior conj	9426 Jan 10 12:01	24° B 01'15 -1°33'11	inferior conj		9426 Dec 24 13:44	7° B 21'16 -2°44'54	
minimum elong	9426 Jan 10 14:55	23° B 53'36 1°31'40	minimum elong		9426 Dec 24 19:07	7° B 08'38 2°42'33	
asc. node	9426 Jan 15 04:06	19° B 43'44	morning rise		9426 Dec 31 17:29	2° B 15'50	
morning rise	9426 Jan 17 02:54	18° B 38'22	asc. node		9427 Jan 02 01:11	1° B 57'01	
direct	9426 Jan 19 14:32	18° B 07'11	direct		9427 Jan 02 23:37	1° B 53'03	
morning max el	9426 Jan 26 01:25	21° B 28'41 17°51'08	morning max el		9427 Jan 09 18:32	5° B 20'30 17°48'33	

morning set	9427 Jan 25 15:10	29°  55'46		morning rise	9427 Dec 14 17:17	15°  26'23	
	9427 Jan 25 16:07	0° 		direct	9427 Dec 16 21:13	15°  08'25	
desc. node	9427 Feb 05 05:38	18°  26'41		asc. node	9427 Dec 19 22:12	15°  45'34	
				morning max el	9427 Dec 24 08:05	18°  50'49	18°04'49
superior conj	9427 Feb 05 23:26	19°  42'01	-0°05'33		9428 Jan 01 10:32	0° 	
minimum elong	9427 Feb 05 22:55	19°  39'52	0°05'14	morning set	9428 Jan 08 23:40	13°  36'53	
behind sun begin	9427 Feb 05 14:29	19°  04'12			9428 Jan 17 21:17	0° 	
behind sun end	9427 Feb 06 07:22	20°  15'27					
	9427 Feb 12 04:44	0° 		superior conj	9428 Jan 18 19:29	1°  39'14	0°32'06
max. Earth dist.	9427 Feb 12 22:50	1°  13'18	1.43662 AU	minimum elong	9428 Jan 18 21:54	1°  49'59	0°32'01
evening rise	9427 Feb 20 13:56	13°  17'55		desc. node	9428 Jan 23 02:33	9°  10'20	
	9427 Mar 03 14:55	0° 		max. Earth dist.	9428 Jan 26 10:30	14°  49'26	1.41866 AU
evening max el	9427 Mar 23 10:33	26°  16'10	21°25'52	evening rise	9428 Jan 31 18:03	23°  32'00	
	9427 Mar 27 21:03	0° 			9428 Feb 04 20:11	0° 	
asc. node	9427 Mar 30 23:47	1°  21'38			9428 Feb 25 15:17	0° 	
retrograde	9427 Apr 01 07:42	1°  30'30		evening max el	9428 Mar 05 03:40	9°  59'40	22°43'50
	9427 Apr 05 08:49	30°  17'00		retrograde	9428 Mar 15 04:02	15°  55'24	
evening set	9427 Apr 05 15:48	29°  46'20		asc. node	9428 Mar 16 20:56	15°  41'04	
inferior conj	9427 Apr 10 22:51	23°  30'42	2°54'25	evening set	9428 Mar 19 23:17	13°  56'22	
minimum elong	9427 Apr 10 20:58	23°  37'15	2°53'57	inferior conj	9428 Mar 25 07:46	7°  32'29	2°26'11
min. Earth dist.	9427 Apr 11 04:34	23°  10'48	0.68377 AU	minimum elong	9428 Mar 25 05:33	7°  40'09	2°25'34
morning rise	9427 Apr 16 01:56	17°  16'47		min. Earth dist.	9428 Mar 25 01:10	7°  55'22	0.68539 AU
direct	9427 Apr 21 04:46	15°  02'46		morning rise	9428 Mar 30 11:41	1°  23'46	
morning max el	9427 May 01 09:24	21°  05'49	23°03'48		9428 Apr 01 16:47	30°  17'00	
desc. node	9427 May 04 05:53	24°  10'05		direct	9428 Apr 04 00:49	29°  13'05	
	9427 May 09 00:53	0° 			9428 Apr 06 12:02	0° 	
	9427 May 29 16:43	0° 		morning max el	9428 Apr 12 22:49	4°  42'01	21°37'03
morning set	9427 Jun 04 23:15	10°  10'55		desc. node	9428 Apr 20 02:45	13°  50'45	
max. Earth dist.	9427 Jun 09 06:34	17°  28'18	1.39757 AU		9428 May 02 04:27	0° 	
	9427 Jun 16 07:54	0° 		morning set	9428 May 15 00:06	19°  39'29	
					9428 May 21 09:10	0° 	
superior conj	9427 Jun 16 23:58	1°  13'36	-1°26'01	max. Earth dist.	9428 May 21 07:15	29°  52'01	1.41940 AU
minimum elong	9427 Jun 17 05:26	1°  38'44	1°25'34				
evening rise	9427 Jun 26 15:32	19°  28'02		superior conj	9428 May 28 21:05	12°  42'52	-1°53'11
asc. node	9427 Jun 26 22:35	20°  01'50		minimum elong	9428 May 29 03:08	13°  09'10	1°52'58
	9427 Jul 02 06:05	0° 			9428 Jun 07 12:52	0° 	
evening max el	9427 Jul 12 17:20	15°  23'23	18°33'06	evening rise	9428 Jun 08 21:05	2°  27'19	
retrograde	9427 Jul 20 13:33	19°  18'10		asc. node	9428 Jun 12 19:36	9°  27'28	
evening set	9427 Jul 22 15:20	19°  02'38		evening max el	9428 Jun 25 02:59	28°  10'40	18°09'39
inferior conj	9427 Jul 30 09:49	14°  34'24	0°14'36		9428 Jun 27 06:45	0° 	
minimum elong	9427 Jul 30 10:22	14°  33'21	0°14'08	retrograde	9428 Jul 02 00:42	1°  40'31	
transit middle	9427 Jul 30 10:22	14°  33'21	0°14'08	evening set	9428 Jul 04 10:10	1°  15'49	
transit begin	9427 Jul 30 08:38	14°  36'43			9428 Jul 06 23:28	30°  17'00	
transit end	9427 Jul 30 12:05	14°  30'00		inferior conj	9428 Jul 11 09:51	26°  26'50	1°36'46
desc. node	9427 Jul 31 05:08	13°  25'56		minimum elong	9428 Jul 11 12:32	26°  20'46	1°35'37
min. Earth dist.	9427 Aug 02 17:12	12°  01'56	0.57666 AU	min. Earth dist.	9428 Jul 14 17:47	23°  27'54	0.59850 AU
morning rise	9427 Aug 07 01:50	9°  18'03		desc. node	9428 Jul 17 02:15	21°  23'36	
direct	9427 Aug 12 23:11	7°  50'13		morning rise	9428 Jul 18 11:56	20°  28'43	
morning max el	9427 Aug 27 07:45	15°  26'18	26°50'47	direct	9428 Jul 24 22:56	18°  22'25	
	9427 Sep 08 02:52	0° 		morning max el	9428 Aug 08 07:05	26°  35'24	27°42'29
asc. node	9427 Sep 22 22:26	25°  17'59			9428 Aug 11 12:18	0° 	
	9427 Sep 24 21:09	0° 			9428 Aug 31 16:34	0° 	
morning set	9427 Sep 26 01:01	2°  26'45		asc. node	9428 Sep 08 19:19	15°  17'41	
				morning set	9428 Sep 09 07:12	16°  17'37	
superior conj	9427 Oct 02 23:14	17°  23'40	1°25'46		9428 Sep 15 09:09	0° 	
minimum elong	9427 Oct 02 21:14	17°  25'36	1°25'37	max. Earth dist.	9428 Sep 15 13:42	0°  25'08	1.31587 AU
max. Earth dist.	9427 Oct 03 04:05	18°  23'40	1.31619 AU				
	9427 Oct 08 14:35	0° 		superior conj	9428 Sep 16 10:42	2°  21'32	1°10'22
evening rise	9427 Oct 09 19:08	2°  32'17		minimum elong	9428 Sep 16 08:28	2°  09'06	1°10'00
	9427 Oct 24 11:53	0° 		evening rise	9428 Sep 23 04:17	17°  09'17	
desc. node	9427 Oct 27 03:27	4°  19'06			9428 Sep 29 11:10	0° 	
evening max el	9427 Nov 09 06:17	20°  19'04	26°55'56	desc. node	9428 Oct 13 00:36	22°  17'19	
retrograde	9427 Nov 23 04:22	27°  28'44			9428 Oct 19 11:24	0° 	
evening set	9427 Nov 30 01:30	25°  26'40		evening max el	9428 Oct 21 03:05	1°  38'26	25°51'30
min. Earth dist.	9427 Dec 03 20:47	22°  47'38	0.60227 AU	retrograde	9428 Nov 04 00:58	8°  40'38	
inferior conj	9427 Dec 07 00:46	20°  11'33	-3°56'57	evening set	9428 Nov 10 07:10	7°  08'42	
minimum elong	9427 Dec 07 08:07	19°  56'24	3°54'23	min. Earth dist.	9428 Nov 14 15:44	4°  33'00	0.58150 AU

inferior conj	9428 Nov 17 17:35	2°♊21'23	-4°59'49	min. Earth dist.	9429 Oct 27 03:05	15°♍15'19	0.56328 AU
minimum elong	9428 Nov 18 00:43	2°♊08'37	4°58'07	inferior conj	9429 Oct 29 14:02	13°♍43'28	-5°37'18
	9428 Nov 21 05:35	30°♍		minimum elong	9429 Oct 29 16:41	13°♍39'20	5°36'57
morning rise	9428 Nov 25 20:37	27°♍58'43		morning rise	9429 Nov 06 23:05	9°♍42'32	
direct	9428 Nov 28 03:07	27°♍42'13		direct	9429 Nov 09 13:53	9°♍24'21	
	9428 Dec 04 11:14	0°♊		morning max el	9429 Nov 19 09:44	14°♍03'42	19°40'47
asc. node	9428 Dec 05 19:11	1°♊04'13		asc. node	9429 Nov 22 16:10	17°♍39'38	
morning max el	9428 Dec 06 14:20	1°♊48'25	18°41'41		9429 Nov 30 14:19	0°♊	
morning set	9428 Dec 22 19:30	27°♊48'34		morning set	9429 Dec 06 22:55	12°♊19'55	
	9428 Dec 23 22:29	0°♋					
superior conj	9428 Dec 31 12:03	14°♋34'06	1°01'29	superior conj	9429 Dec 14 20:10	28°♊12'47	1°22'14
minimum elong	9428 Dec 31 15:18	14°♋49'22	1°01'21	minimum elong	9429 Dec 14 22:56	28°♊26'25	1°22'15
max. Earth dist.	9429 Jan 07 18:07	27°♋45'05	1.39749 AU		9429 Dec 15 17:58	0°♋	
desc. node	9429 Jan 08 23:30	29°♋53'10		max. Earth dist.	9429 Dec 21 00:13	10°♋02'19	1.37562 AU
	9429 Jan 09 01:05	0°♌		evening rise	9429 Dec 24 17:32	16°♋47'47	
evening rise	9429 Jan 11 19:12	4°♌42'18		desc. node	9429 Dec 26 20:30	20°♋31'23	
	9429 Jan 27 23:52	0°♌			9430 Jan 01 12:02	0°♌	
evening max el	9429 Feb 15 17:59	23°♌46'38	24°04'07		9430 Jan 22 10:59	0°♌	
	9429 Feb 24 17:27	0°♍		evening max el	9430 Jan 29 07:13	7°♌35'10	25°20'03
retrograde	9429 Feb 26 21:06	0°♍18'53		retrograde	9430 Feb 10 09:55	14°♌35'06	
	9429 Feb 28 22:13	30°♌		evening set	9430 Feb 16 05:44	12°♌10'23	
asc. node	9429 Mar 03 18:03	28°♌27'12		asc. node	9430 Feb 18 15:12	9°♌46'35	
evening set	9429 Mar 04 04:27	28°♌05'58		min. Earth dist.	9430 Feb 20 15:26	7°♌19'10	0.67609 AU
min. Earth dist.	9429 Mar 08 21:32	22°♌39'52	0.68277 AU	inferior conj	9430 Feb 21 21:31	5°♌41'49	1°02'54
inferior conj	9429 Mar 09 15:57	21°♌37'31	1°48'55	minimum elong	9430 Feb 21 20:04	5°♌46'32	1°02'31
minimum elong	9429 Mar 09 13:51	21°♌44'36	1°48'18	morning rise	9430 Feb 27 10:47	29°♌47'50	
morning rise	9429 Mar 14 23:17	15°♌35'23			9430 Feb 27 03:46	30°♌	
direct	9429 Mar 18 23:11	14°♌04'47		direct	9430 Mar 02 22:25	28°♌38'04	
morning max el	9429 Mar 26 19:06	18°♌30'34	20°20'20		9430 Mar 06 22:27	0°♌	
	9429 Apr 05 03:15	0°♍		morning max el	9430 Mar 09 23:23	2°♌30'43	19°17'35
desc. node	9429 Apr 06 23:38	2°♍35'28		greatest brilliancy	9430 Mar 22 21:52	19°♌36'49	-0.7m
morning set	9429 Apr 24 02:57	28°♍11'24		desc. node	9430 Mar 24 20:30	22°♌31'51	
	9429 Apr 25 06:59	0°♎			9430 Mar 29 18:10	0°♍	
max. Earth dist.	9429 May 03 15:33	13°♎10'57	1.43764 AU	morning set	9430 Apr 03 03:01	6°♍43'27	
				max. Earth dist.	9430 Apr 16 06:14	27°♍10'59	1.45015 AU
superior conj	9429 May 09 18:38	23°♎09'37	-2°10'03		9430 Apr 18 01:03	0°♎	
minimum elong	9429 May 09 21:49	23°♎22'46	2°10'13	superior conj	9430 Apr 19 16:17	2°♎35'36	-2°10'15
	9429 May 13 20:57	0°♏		minimum elong	9430 Apr 19 12:42	2°♎21'21	2°10'18
evening rise	9429 May 22 09:48	14°♏39'45		evening rise	9430 May 04 01:03	25°♎55'26	
asc. node	9429 May 30 16:40	28°♏53'30			9430 May 06 12:05	0°♏	
	9429 May 31 08:54	0°♐		asc. node	9430 May 17 13:45	17°♏42'34	
evening max el	9429 Jun 08 16:07	11°♐22'08	18°05'34	evening max el	9430 May 23 05:25	24°♏48'38	18°20'05
retrograde	9429 Jun 15 02:45	14°♐42'46		retrograde	9430 May 29 15:02	28°♏14'16	
evening set	9429 Jun 17 19:53	14°♐06'12		evening set	9430 Jun 01 15:38	27°♏24'11	
inferior conj	9429 Jun 24 04:12	8°♐57'39	2°32'17	inferior conj	9430 Jun 07 12:38	21°♏57'59	3°04'54
minimum elong	9429 Jun 24 06:58	8°♐50'29	2°31'20	minimum elong	9430 Jun 07 14:28	21°♏52'43	3°04'19
min. Earth dist.	9429 Jun 27 03:01	5°♐55'49	0.62105 AU	min. Earth dist.	9430 Jun 09 21:42	19°♏13'56	0.64179 AU
morning rise	9429 Jun 30 16:04	2°♐52'02		morning rise	9430 Jun 13 12:07	15°♏42'04	
desc. node	9429 Jul 03 23:20	1°♐04'39		direct	9430 Jun 20 04:29	13°♏01'27	
direct	9429 Jul 07 09:17	0°♐27'52		desc. node	9430 Jun 20 20:23	13°♏02'54	
morning max el	9429 Jul 21 12:47	8°♐29'29	27°56'04	morning max el	9430 Jul 03 22:25	21°♏02'18	27°32'49
	9429 Aug 07 01:55	0°♑			9430 Jul 11 16:27	0°♐	
	9429 Aug 23 20:30	0°♑			9430 Jul 31 04:58	0°♑	
morning set	9429 Aug 24 07:54	0°♑58'00		morning set	9430 Aug 08 00:39	14°♑38'59	
asc. node	9429 Aug 26 16:14	5°♑49'40		max. Earth dist.	9430 Aug 12 19:56	24°♑24'28	1.32961 AU
max. Earth dist.	9429 Aug 29 20:19	12°♑35'48	1.32033 AU	asc. node	9430 Aug 13 13:10	25°♑54'42	
					9430 Aug 15 11:30	0°♑	
superior conj	9429 Aug 31 20:13	16°♑56'48	0°50'01	superior conj	9430 Aug 16 01:49	1°♑16'31	0°25'07
minimum elong	9429 Aug 31 18:13	16°♑45'50	0°49'32	minimum elong	9430 Aug 16 00:37	1°♑10'07	0°24'42
	9429 Sep 06 19:12	0°♒		evening rise	9430 Aug 23 02:59	16°♑27'12	
evening rise	9429 Sep 07 15:32	1°♒49'34			9430 Aug 29 19:25	0°♒	
	9429 Sep 22 19:55	0°♒		evening max el	9430 Sep 14 03:28	22°♒20'35	22°41'42
desc. node	9429 Sep 29 21:46	9°♒17'35		desc. node	9430 Sep 16 18:57	24°♒41'00	
evening max el	9429 Oct 02 16:16	12°♒10'40	24°21'35	retrograde	9430 Sep 27 06:47	28°♒53'48	
retrograde	9429 Oct 16 09:50	19°♒03'53		evening set	9430 Sep 30 21:10	28°♒25'21	
evening set	9429 Oct 21 12:23	18°♒06'17					

min. Earth dist.	9430 Oct 08 11:13	25°♄01'19	0.55065 AU	evening rise	9431 Aug 07 12:39	0°♄56'21	
inferior conj	9430 Oct 09 16:05	24°♄20'10	-5°29'20		9431 Aug 24 09:19	0°♄	
minimum elong	9430 Oct 09 10:55	24°♄27'33	5°28'40	evening max el	9431 Aug 26 21:59	2°♄44'47	21°08'11
morning rise	9430 Oct 18 02:32	20°♄32'03		desc. node	9431 Sep 03 16:08	7°♄56'10	
direct	9430 Oct 21 06:27	20°♄09'05		retrograde	9431 Sep 07 19:16	8°♄38'24	
morning max el	9430 Nov 01 16:03	25°♄30'27	21°02'12	evening set	9431 Sep 10 04:04	8°♄25'18	
	9430 Nov 05 18:19	0°♄		inferior conj	9431 Sep 19 08:39	4°♄29'06	-4°25'01
asc. node	9430 Nov 09 13:09	5°♄16'21		minimum elong	9431 Sep 18 22:56	4°♄42'47	4°22'26
morning set	9430 Nov 21 07:13	27°♄03'22		min. Earth dist.	9431 Sep 19 19:39	4°♄13'34	0.54644 AU
	9430 Nov 22 17:08	0°♄		morning rise	9431 Sep 27 18:14	0°♄35'36	
				direct	9431 Oct 01 14:41	0°♄03'40	
superior conj	9430 Nov 28 15:33	12°♄23'12	1°34'53	morning max el	9431 Oct 14 10:23	6°♄10'58	22°41'41
minimum elong	9430 Nov 28 17:12	12°♄31'42	1°35'05	asc. node	9431 Oct 27 10:07	23°♄39'38	
max. Earth dist.	9430 Dec 03 09:26	21°♄57'25	1.35546 AU		9431 Oct 30 21:31	0°♄	
evening rise	9430 Dec 07 10:10	29°♄41'37		morning set	9431 Nov 05 18:09	11°♄51'47	
	9430 Dec 07 14:06	0°♄					
desc. node	9430 Dec 13 17:31	11°♄01'00		superior conj	9431 Nov 12 18:37	26°♄54'04	1°40'17
	9430 Dec 25 16:17	0°♄		minimum elong	9431 Nov 12 19:00	26°♄56'07	1°40'33
evening max el	9431 Jan 11 20:26	21°♄21'16	26°24'26		9431 Nov 14 05:40	0°♄	
retrograde	9431 Jan 24 17:43	28°♄37'48		max. Earth dist.	9431 Nov 16 01:55	3°♄51'29	1.33879 AU
evening set	9431 Jan 31 01:23	26°♄05'09		evening rise	9431 Nov 20 17:11	13°♄13'00	
min. Earth dist.	9431 Feb 04 04:46	21°♄48'21	0.66558 AU		9431 Nov 29 20:40	0°♄	
inferior conj	9431 Feb 05 22:32	19°♄41'48	0°08'26	desc. node	9431 Nov 30 14:34	1°♄16'08	
minimum elong	9431 Feb 05 22:18	19°♄42'30	0°08'33		9431 Dec 20 17:01	0°♄	
transit middle	9431 Feb 05 22:18	19°♄42'30	0°08'33	evening max el	9431 Dec 25 09:40	4°♄56'28	27°10'02
transit begin	9431 Feb 05 19:51	19°♄49'56		retrograde	9432 Jan 07 19:36	12°♄18'20	
transit end	9431 Feb 06 00:44	19°♄35'05		evening set	9432 Jan 14 13:18	9°♄43'28	
asc. node	9431 Feb 05 12:19	20°♄12'52		min. Earth dist.	9432 Jan 18 11:17	6°♄00'10	0.65147 AU
morning rise	9431 Feb 11 20:04	13°♄57'48		inferior conj	9432 Jan 20 16:40	3°♄31'35	-0°54'03
direct	9431 Feb 14 20:53	13°♄05'59		minimum elong	9432 Jan 20 18:16	3°♄27'07	0°53'06
morning max el	9431 Feb 21 10:36	16°♄38'06	18°30'44	asc. node	9432 Jan 23 09:27	0°♄40'21	
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desc. node	9431 Mar 11 17:23	12°♄47'15		morning rise	9432 Jan 27 00:40	27°♄59'58	
morning set	9431 Mar 13 23:05	16°♄19'39		direct	9432 Jan 29 16:28	27°♄22'22	
	9431 Mar 22 15:13	0°♄			9432 Feb 04 07:04	0°♄	
				morning max el	9432 Feb 05 02:21	0°♄45'09	18°00'36
superior conj	9431 Mar 29 23:05	11°♄28'37	-1°50'09	morning set	9432 Feb 23 00:28	27°♄23'22	
minimum elong	9431 Mar 29 13:54	10°♄52'45	1°49'28		9432 Feb 24 14:32	0°♄	
max. Earth dist.	9431 Mar 30 00:32	11°♄34'19	1.45570 AU	desc. node	9432 Feb 26 14:14	3°♄15'38	
	9431 Apr 10 18:18	0°♄					
evening rise	9431 Apr 14 16:32	6°♄12'43		superior conj	9432 Mar 08 08:40	20°♄36'15	-1°13'30
greatest brilliancy	9431 Apr 23 17:23	20°♄29'55	-0.8m	minimum elong	9432 Mar 08 00:31	20°♄03'56	1°12'26
	9431 Apr 30 00:04	0°♄		max. Earth dist.	9432 Mar 11 20:02	26°♄05'00	1.45379 AU
asc. node	9431 May 04 10:51	5°♄56'06			9432 Mar 14 08:03	0°♄	
evening max el	9431 May 06 16:16	8°♄24'08	18°52'26	evening rise	9432 Mar 24 11:55	15°♄45'22	
retrograde	9431 May 13 09:35	12°♄07'29			9432 Apr 02 19:01	0°♄	
evening set	9431 May 16 17:57	11°♄02'49		greatest brilliancy	9432 Apr 07 06:21	6°♄42'33	-0.7m
inferior conj	9431 May 22 07:21	5°♄20'39	3°19'07	evening max el	9432 Apr 18 22:41	22°♄03'58	19°41'21
minimum elong	9431 May 22 07:54	5°♄18'53	3°18'48	asc. node	9432 Apr 20 07:58	23°♄22'56	
min. Earth dist.	9431 May 24 01:16	3°♄09'14	0.65916 AU	retrograde	9432 Apr 26 07:18	26°♄16'12	
	9431 May 26 20:07	30°♄		evening set	9432 Apr 30 00:09	24°♄56'15	
morning rise	9431 May 27 21:15	29°♄01'10		inferior conj	9432 May 05 09:06	18°♄59'41	3°18'44
direct	9431 Jun 03 07:13	26°♄15'34		minimum elong	9432 May 05 08:30	19°♄01'42	3°18'27
desc. node	9431 Jun 07 17:25	27°♄20'58		min. Earth dist.	9432 May 06 12:11	17°♄29'34	0.67228 AU
	9431 Jun 11 21:57	0°♄		morning rise	9432 May 10 16:30	12°♄40'48	
morning max el	9431 Jun 16 09:05	4°♄02'04	26°38'50	direct	9432 May 16 16:03	10°♄01'16	
	9431 Jul 06 02:18	0°♄		desc. node	9432 May 24 14:23	13°♄29'27	
morning set	9431 Jul 22 06:17	27°♄45'55		morning max el	9432 May 28 18:55	17°♄17'17	25°23'09
	9431 Jul 23 10:25	0°♄			9432 Jun 08 09:22	0°♄	
max. Earth dist.	9431 Jul 26 09:17	5°♄45'58	1.34382 AU		9432 Jun 28 01:45	0°♄	
				morning set	9432 Jul 03 20:42	10°♄07'59	
superior conj	9431 Jul 31 01:11	15°♄14'21	-0°03'43	max. Earth dist.	9432 Jul 07 12:14	16°♄50'44	1.36259 AU
minimum elong	9431 Jul 31 01:24	15°♄15'28	0°03'55				
behind sun begin	9431 Jul 30 19:45	14°♄46'10		superior conj	9432 Jul 13 15:33	28°♄43'18	-0°35'21
behind sun end	9431 Jul 31 07:03	15°♄44'49		minimum elong	9432 Jul 13 17:44	28°♄54'07	0°35'13
asc. node	9431 Jul 31 10:07	16°♄00'44			9432 Jul 14 06:56	0°♄	
	9431 Aug 07 01:53	0°♄		asc. node	9432 Jul 17 07:04	6°♄03'57	

evening rise	9432 Jul 21 18:24	15°♎11'14			9433 Jul 06 04:57	0°♎	
	9432 Jul 29 10:25	0°♎		evening max el	9433 Jul 22 01:54	25°♎38'30	18°55'39
evening max el	9432 Aug 08 05:34	13°♎49'14	19°51'34	retrograde	9433 Jul 30 16:05	29°♎54'40	
retrograde	9432 Aug 18 10:16	18°♎51'57		evening set	9433 Aug 01 14:23	29°♎42'35	
evening set	9432 Aug 20 07:14	18°♎42'29		desc. node	9433 Aug 07 10:27	27°♎03'45	
desc. node	9432 Aug 20 13:18	18°♎39'49		inferior conj	9433 Aug 09 20:11	25°♎25'20	-0°44'26
inferior conj	9432 Aug 29 05:58	14°♎41'35	-2°39'03	minimum elong	9433 Aug 09 18:18	25°♎28'39	0°43'55
minimum elong	9432 Aug 28 22:48	14°♎52'33	2°36'32	min. Earth dist.	9433 Aug 12 20:37	23°♎18'12	0.56581 AU
min. Earth dist.	9432 Aug 31 06:14	13°♎27'57	0.55184 AU	morning rise	9433 Aug 17 19:01	20°♎30'18	
morning rise	9432 Sep 06 12:37	10°♎23'09		direct	9433 Aug 23 05:58	19°♎19'34	
direct	9432 Sep 11 04:04	9°♎35'51		morning max el	9433 Sep 06 11:52	26°♎40'16	26°05'39
morning max el	9432 Sep 24 22:29	16°♎24'18	24°28'18		9433 Sep 09 16:34	0°♎	
	9432 Oct 05 21:15	0°♎			9433 Sep 29 03:05	0°♎	
asc. node	9432 Oct 13 07:03	12°♎38'06		asc. node	9433 Sep 30 03:57	2°♎02'07	
morning set	9432 Oct 20 05:56	26°♎40'18		morning set	9433 Oct 04 16:54	11°♎23'42	
	9432 Oct 21 19:05	0°♎					
				superior conj	9433 Oct 11 13:36	26°♎26'09	1°32'16
superior conj	9432 Oct 27 02:42	11°♎37'27	1°39'13	minimum elong	9433 Oct 11 11:57	26°♎17'02	1°32'14
minimum elong	9432 Oct 27 01:56	11°♎33'15	1°39'24	max. Earth dist.	9433 Oct 12 09:42	28°♎17'23	1.31865 AU
max. Earth dist.	9432 Oct 29 02:44	15°♎58'23	1.32644 AU		9433 Oct 13 04:18	0°♎	
evening rise	9432 Nov 03 11:04	27°♎12'55		evening rise	9433 Oct 18 12:47	11°♎32'38	
	9432 Nov 04 20:13	0°♎			9433 Oct 28 00:52	0°♎	
desc. node	9432 Nov 16 11:38	21°♎10'23		desc. node	9433 Nov 03 08:45	10°♎34'57	
	9432 Nov 22 03:34	0°♎			9433 Nov 18 10:22	0°♎	
evening max el	9432 Dec 06 21:31	18°♎09'16	27°29'45	evening max el	9433 Nov 19 05:26	0°♎45'57	27°17'59
retrograde	9432 Dec 20 14:38	25°♎28'17		retrograde	9433 Dec 03 02:00	7°♎58'54	
evening set	9432 Dec 27 14:55	22°♎58'42		evening set	9433 Dec 10 02:58	5°♎43'42	
min. Earth dist.	9432 Dec 31 08:53	19°♎46'13	0.63419 AU	min. Earth dist.	9433 Dec 13 19:56	2°♎55'53	0.61437 AU
inferior conj	9433 Jan 03 01:15	17°♎04'52	-2°03'13	inferior conj	9433 Dec 16 21:10	0°♎13'37	-3°15'53
minimum elong	9433 Jan 03 05:12	16°♎54'57	2°01'18	minimum elong	9433 Dec 17 03:31	29°♎59'30	3°13'19
asc. node	9433 Jan 09 06:33	12°♎04'28			9433 Dec 17 03:18	30°♎	
morning rise	9433 Jan 09 21:29	11°♎48'40		morning rise	9433 Dec 24 06:27	25°♎16'22	
direct	9433 Jan 12 06:27	11°♎21'27		direct	9433 Dec 26 11:19	24°♎55'56	
morning max el	9433 Jan 18 19:48	14°♎44'31	17°47'45	asc. node	9433 Dec 27 03:36	24°♎57'56	
	9433 Jan 29 12:10	0°♎		morning max el	9434 Jan 02 11:48	28°♎28'20	17°53'06
morning set	9433 Feb 04 04:16	9°♎43'47			9434 Jan 03 22:11	0°♎	
desc. node	9433 Feb 12 11:05	23°♎52'48		morning set	9434 Jan 18 04:03	23°♎00'59	
	9433 Feb 16 03:26	0°♎			9434 Jan 22 00:38	0°♎	
superior conj	9433 Feb 16 13:25	0°♎41'01	-0°29'59	superior conj	9434 Jan 28 19:36	11°♎59'15	0°11'22
minimum elong	9433 Feb 16 10:13	0°♎27'54	0°29'19	minimum elong	9434 Jan 28 20:37	12°♎03'39	0°11'28
max. Earth dist.	9433 Feb 22 14:30	10°♎27'59	1.44473 AU	behind sun begin	9434 Jan 28 14:43	11°♎38'11	
evening rise	9433 Mar 03 23:08	25°♎06'18		behind sun end	9434 Jan 29 02:31	12°♎29'05	
	9433 Mar 07 04:00	0°♎		desc. node	9434 Jan 30 07:58	14°♎35'22	
	9433 Mar 28 00:16	0°♎		max. Earth dist.	9434 Feb 05 05:25	24°♎26'47	1.42950 AU
evening max el	9433 Apr 01 23:36	5°♎44'59	20°44'32		9434 Feb 08 15:43	0°♎	
asc. node	9433 Apr 07 05:06	9°♎48'58		evening rise	9434 Feb 11 07:39	4°♎53'11	
retrograde	9433 Apr 10 05:53	10°♎34'48			9434 Feb 28 12:10	0°♎	
evening set	9433 Apr 14 08:11	8°♎59'18		evening max el	9434 Mar 15 19:08	19°♎27'12	21°58'23
inferior conj	9433 Apr 19 15:17	2°♎50'01	3°06'19	retrograde	9434 Mar 25 03:31	24°♎59'14	
minimum elong	9433 Apr 19 13:47	2°♎55'14	3°05'56	asc. node	9434 Mar 25 02:15	24°♎59'13	
min. Earth dist.	9433 Apr 20 04:27	2°♎04'39	0.68087 AU	evening set	9434 Mar 29 16:21	23°♎08'22	
	9433 Apr 21 17:32	30°♎		inferior conj	9434 Apr 03 23:46	16°♎48'49	2°43'34
morning rise	9433 Apr 24 19:09	26°♎34'05		minimum elong	9434 Apr 03 21:42	16°♎56'01	2°43'02
direct	9433 Apr 30 05:55	24°♎09'10		min. Earth dist.	9434 Apr 04 00:05	16°♎47'44	0.68496 AU
	9433 May 10 11:42	0°♎		morning rise	9434 Apr 09 02:54	10°♎37'10	
morning max el	9433 May 11 04:08	0°♎40'48	23°55'40	direct	9434 Apr 13 23:52	8°♎32'08	
desc. node	9433 May 11 11:18	0°♎59'05		morning max el	9434 Apr 23 15:11	14°♎12'27	22°26'12
	9433 Jun 02 07:08	0°♎		desc. node	9434 Apr 28 08:11	19°♎27'51	
morning set	9433 Jun 15 14:42	21°♎30'50			9434 May 06 08:55	0°♎	
max. Earth dist.	9433 Jun 19 09:16	28°♎05'46	1.38451 AU		9434 May 26 05:59	0°♎	
	9433 Jun 20 10:53	0°♎		morning set	9434 May 27 07:18	1°♎42'47	
				max. Earth dist.	9434 Jun 01 07:17	10°♎00'44	1.40713 AU
superior conj	9433 Jun 26 17:18	11°♎33'34	-1°07'56	superior conj	9434 Jun 09 02:12	23°♎35'16	-1°38'23
minimum elong	9433 Jun 26 21:41	11°♎54'19	1°07'33	minimum elong	9434 Jun 09 08:12	24°♎02'14	1°38'00
asc. node	9433 Jul 04 04:01	25°♎59'54			9434 Jun 12 14:50	0°♎	
evening rise	9433 Jul 05 17:30	29°♎03'52					

































































































































evening rise	9434 Jun 19 06:39	12°♌25'52		minimum elong	9435 May 21 18:57	5°♐00'46	2°01'56
asc. node	9434 Jun 21 01:01	15°♌44'33		evening rise	9435 Jun 02 05:37	25°♐06'25	
	9434 Jun 29 02:58	0°♌			9435 Jun 04 23:14	0°♌	
evening max el	9434 Jul 05 07:45	8°♌07'07	18°20'38	asc. node	9435 Jun 07 22:04	5°♌12'41	
retrograde	9434 Jul 12 17:07	11°♌49'48		evening max el	9435 Jun 18 19:17	21°♌05'40	18°05'39
evening set	9434 Jul 14 21:59	11°♌30'48		retrograde	9435 Jun 25 11:10	24°♌30'02	
inferior conj	9434 Jul 22 08:09	6°♌53'23	0°52'45	evening set	9435 Jun 27 23:47	24°♌00'44	
minimum elong	9434 Jul 22 09:54	6°♌49'45	0°51'51	inferior conj	9435 Jul 04 16:29	19°♌03'26	2°03'22
desc. node	9434 Jul 25 07:34	4°♌25'54		minimum elong	9435 Jul 04 19:24	18°♌56'27	2°02'14
min. Earth dist.	9434 Jul 25 17:07	4°♌06'59	0.58566 AU	min. Earth dist.	9435 Jul 07 21:29	16°♌00'07	0.60808 AU
morning rise	9434 Jul 29 18:26	1°♌22'55		morning rise	9435 Jul 11 12:21	13°♌07'27	
	9434 Aug 02 08:19	30°♌♌		desc. node	9435 Jul 12 04:38	12°♌42'08	
direct	9434 Aug 04 22:07	29°♌42'20		direct	9435 Jul 18 02:51	10°♌57'02	
	9434 Aug 07 12:57	0°♌		morning max el	9435 Aug 01 09:52	18°♌55'49	27°53'01
morning max el	9434 Aug 19 07:27	7°♌26'36	27°17'16		9435 Aug 10 18:23	0°♌	
	9434 Sep 05 06:44	0°♌			9435 Aug 29 02:09	0°♌	
asc. node	9434 Sep 17 00:50	21°♌44'39		morning set	9435 Sep 03 05:34	10°♌15'58	
morning set	9434 Sep 19 01:23	25°♌57'16		asc. node	9435 Sep 03 21:45	11°♌40'08	
	9434 Sep 20 22:50	0°♌		max. Earth dist.	9435 Sep 09 04:13	22°♌59'44	1.31712 AU
superior conj	9434 Sep 26 01:25	11°♌14'20	1°19'51	superior conj	9435 Sep 10 12:20	25°♌56'43	1°02'20
minimum elong	9434 Sep 25 23:15	11°♌02'22	1°19'36	minimum elong	9435 Sep 10 10:08	25°♌44'32	1°01'54
max. Earth dist.	9434 Sep 25 19:27	10°♌41'11	1.31551 AU		9435 Sep 12 08:20	0°♌	
evening rise	9434 Oct 02 19:51	26°♌05'15		evening rise	9435 Sep 17 06:10	10°♌44'56	
	9434 Oct 04 16:28	0°♌			9435 Sep 26 23:21	0°♌	
desc. node	9434 Oct 21 05:54	29°♌17'38		desc. node	9435 Oct 08 03:04	17°♌02'13	
	9434 Oct 21 17:44	0°♌		evening max el	9435 Oct 13 23:53	23°♌33'03	25°15'36
evening max el	9434 Nov 01 06:39	12°♌34'39	26°32'09		9435 Oct 24 02:59	0°♌	
retrograde	9434 Nov 15 04:46	19°♌41'29		retrograde	9435 Oct 27 21:09	0°♌32'51	
evening set	9434 Nov 21 21:12	17°♌50'54			9435 Oct 31 15:25	30°♌♌	
min. Earth dist.	9434 Nov 25 20:15	15°♌15'43	0.59331 AU	evening set	9435 Nov 02 16:54	29°♌15'25	
inferior conj	9434 Nov 29 00:49	12°♌47'45	-4°25'35	min. Earth dist.	9435 Nov 07 11:50	26°♌35'23	0.57324 AU
minimum elong	9434 Nov 29 08:29	12°♌32'53	4°23'13	inferior conj	9435 Nov 10 09:11	24°♌38'46	-5°20'00
morning rise	9434 Dec 06 22:18	8°♌12'25		minimum elong	9435 Nov 10 15:01	24°♌28'56	5°18'55
direct	9434 Dec 09 02:42	7°♌55'29		morning rise	9435 Nov 18 15:28	20°♌25'54	
asc. node	9434 Dec 14 00:38	9°♌26'24		direct	9435 Nov 21 00:30	20°♌09'14	
morning max el	9434 Dec 16 22:48	11°♌46'31	18°17'57	morning max el	9435 Nov 30 01:01	24°♌28'39	19°04'00
	9434 Dec 29 01:16	0°♌		asc. node	9435 Nov 30 21:38	25°♌20'23	
morning set	9435 Jan 01 17:54	6°♌56'43			9435 Dec 04 16:38	0°♌	
superior conj	9435 Jan 11 01:04	24°♌23'18	0°45'38	morning set	9435 Dec 16 17:24	21°♌18'21	
minimum elong	9435 Jan 11 04:03	24°♌36'53	0°45'29		9435 Dec 21 02:42	0°♌	
	9435 Jan 14 03:56	0°♌		superior conj	9435 Dec 25 00:55	7°♌39'12	1°11'17
desc. node	9435 Jan 17 04:54	5°♌19'16		minimum elong	9435 Dec 25 04:04	7°♌54'22	1°11'13
max. Earth dist.	9435 Jan 18 15:10	7°♌46'12	1.40984 AU	max. Earth dist.	9435 Dec 31 21:11	20°♌22'47	1.38813 AU
evening rise	9435 Jan 23 06:19	15°♌30'17		desc. node	9436 Jan 04 01:54	26°♌01'06	
	9435 Feb 01 10:57	0°♌		evening rise	9436 Jan 04 16:50	27°♌05'35	
	9435 Feb 23 11:00	0°♌			9436 Jan 06 09:42	0°♌	
evening max el	9435 Feb 26 10:38	3°♌11'22	23°18'03		9436 Jan 25 23:58	0°♌	
retrograde	9435 Mar 08 22:45	9°♌24'10		evening max el	9436 Feb 09 00:15	16°♌59'12	24°37'20
asc. node	9435 Mar 11 23:24	8°♌39'32		retrograde	9436 Feb 20 14:14	23°♌45'06	
evening set	9435 Mar 13 23:03	7°♌18'52		evening set	9436 Feb 26 02:46	21°♌26'58	
inferior conj	9435 Mar 19 08:36	0°♌52'16	2°11'27	asc. node	9436 Feb 26 20:33	20°♌46'42	
minimum elong	9435 Mar 19 06:23	0°♌59'54	2°10'49	min. Earth dist.	9436 Mar 01 16:35	16°♌15'26	0.68040 AU
min. Earth dist.	9435 Mar 18 20:52	1°♌32'42	0.68473 AU	inferior conj	9436 Mar 02 15:55	14°♌57'40	1°30'28
	9435 Mar 19 23:49	30°♌♌		minimum elong	9436 Mar 02 14:02	15°♌03'57	1°29'54
morning rise	9435 Mar 24 13:40	24°♌46'11		morning rise	9436 Mar 08 01:28	8°♌58'30	
direct	9435 Mar 28 20:57	23°♌03'06		direct	9436 Mar 11 19:56	7°♌37'04	
morning max el	9435 Apr 06 07:20	27°♌54'04	21°02'56	morning max el	9436 Mar 19 06:58	11°♌47'35	19°51'39
	9435 Apr 08 06:57	0°♌		desc. node	9436 Apr 01 01:58	28°♌21'46	
desc. node	9435 Apr 15 05:04	8°♌39'10		greatest brilliancy	9436 Apr 01 11:11	28°♌55'27	-0.6m
	9435 Apr 29 22:34	0°♌			9436 Apr 02 04:47	0°♌	
morning set	9435 May 06 21:22	10°♌42'48		morning set	9436 Apr 14 19:50	19°♌05'03	
max. Earth dist.	9435 May 14 10:47	22°♌47'15	1.42767 AU		9436 Apr 21 20:24	0°♌	
	9435 May 18 19:39	0°♌		max. Earth dist.	9436 Apr 25 21:23	6°♌22'53	1.44373 AU
superior conj	9435 May 21 13:36	4°♌37'58	-2°02'00	superior conj	9436 May 01 00:33	14°♌37'11	-2°12'32

minimum elong	9436 May 01 01:12	14°♄39'46	2°12'43	superior conj	9437 Apr 10 14:12	23°♄44'37	-2°04'10
	9436 May 10 07:46	0°♄		minimum elong	9437 Apr 10 07:38	23°♄18'46	2°03'57
evening rise	9436 May 14 09:38	6°♄54'49			9437 Apr 14 13:17	0°♄	
asc. node	9436 May 24 19:07	24°♄17'59		evening rise	9437 Apr 25 14:46	17°♄45'06	
	9436 May 28 15:48	0°♄			9437 May 03 04:06	0°♄	
evening max el	9436 Jun 01 08:52	4°♄24'24	18°09'39	asc. node	9437 May 11 16:13	12°♄53'13	
retrograde	9436 Jun 07 17:54	7°♄45'19		evening max el	9437 May 15 21:30	17°♄55'52	18°31'47
evening set	9436 Jun 10 14:14	7°♄03'11		retrograde	9437 May 22 09:11	21°♄27'09	
inferior conj	9436 Jun 16 17:17	1°♄47'15	2°48'39	evening set	9437 May 25 13:09	20°♄30'48	
minimum elong	9436 Jun 16 19:43	1°♄40'36	2°47'51	inferior conj	9437 May 31 06:29	14°♄57'39	3°12'55
	9436 Jun 18 08:37	30°♄		minimum elong	9437 May 31 07:47	14°♄53'46	3°12'29
min. Earth dist.	9436 Jun 19 10:43	28°♄50'32	0.63017 AU	min. Earth dist.	9437 Jun 02 09:08	12°♄26'14	0.64968 AU
morning rise	9436 Jun 22 23:34	25°♄36'25		morning rise	9437 Jun 06 01:33	8°♄39'53	
desc. node	9436 Jun 28 01:44	23°♄12'24		direct	9437 Jun 12 15:54	5°♄55'48	
direct	9436 Jun 29 17:24	23°♄03'33		desc. node	9437 Jun 14 22:45	6°♄13'11	
	9436 Jul 12 14:08	0°♄		morning max el	9437 Jun 26 03:31	13°♄51'31	27°13'11
morning max el	9436 Jul 13 17:20	1°♄06'31	27°50'26		9437 Jul 09 04:45	0°♄	
	9436 Aug 03 22:36	0°♄			9437 Jul 27 14:27	0°♄	
morning set	9436 Aug 17 03:12	24°♄12'22		morning set	9437 Jul 31 15:36	7°♄39'30	
	9436 Aug 19 23:02	0°♄		max. Earth dist.	9437 Aug 05 03:36	16°♄37'58	1.33507 AU
asc. node	9436 Aug 20 18:40	1°♄42'47		asc. node	9437 Aug 07 15:36	21°♄48'35	
max. Earth dist.	9436 Aug 22 08:04	5°♄01'02	1.32360 AU				
				superior conj	9437 Aug 08 23:40	24°♄37'23	0°13'21
superior conj	9436 Aug 24 20:27	10°♄26'19	0°40'01	minimum elong	9437 Aug 08 23:00	24°♄33'50	0°13'01
minimum elong	9436 Aug 24 18:43	10°♄16'55	0°39'32	behind sun begin	9437 Aug 08 19:43	24°♄16'29	
evening rise	9436 Aug 31 17:42	25°♄24'46		behind sun end	9437 Aug 09 02:17	24°♄51'12	
	9436 Sep 02 21:48	0°♄			9437 Aug 11 12:17	0°♄	
	9436 Sep 20 20:59	0°♄		evening rise	9437 Aug 16 04:37	9°♄59'27	
desc. node	9436 Sep 24 00:15	3°♄25'19			9437 Aug 26 13:03	0°♄	
evening max el	9436 Sep 24 11:24	3°♄52'40	23°39'28	evening max el	9437 Sep 06 00:41	14°♄04'10	22°00'23
retrograde	9436 Oct 08 00:45	10°♄38'59		desc. node	9437 Sep 10 21:24	17°♄57'58	
evening set	9436 Oct 12 12:07	9°♄55'21		retrograde	9437 Sep 18 16:40	20°♄22'14	
min. Earth dist.	9436 Oct 18 21:38	6°♄52'09	0.55706 AU	evening set	9437 Sep 21 17:01	20°♄01'58	
inferior conj	9436 Oct 20 21:18	5°♄41'08	-5°40'34	min. Earth dist.	9437 Sep 30 05:12	16°♄19'45	0.54778 AU
minimum elong	9436 Oct 20 20:45	5°♄41'57	5°40'24	inferior conj	9437 Sep 30 17:43	16°♄02'14	-5°08'45
morning rise	9436 Oct 29 07:20	1°♄46'49		minimum elong	9437 Sep 30 09:46	16°♄13'22	5°07'15
direct	9436 Nov 01 03:12	1°♄26'57		morning rise	9437 Oct 09 03:58	12°♄14'38	
morning max el	9436 Nov 11 14:57	6°♄23'46	20°12'38	direct	9437 Oct 12 14:57	11°♄48'15	
asc. node	9436 Nov 16 18:38	12°♄23'48		morning max el	9437 Oct 24 15:33	17°♄28'37	21°42'43
	9436 Nov 27 00:34	0°♄			9437 Nov 03 10:15	0°♄	
morning set	9436 Nov 29 23:13	5°♄55'43		asc. node	9437 Nov 03 15:36	0°♄21'39	
				morning set	9437 Nov 14 08:52	20°♄41'59	
superior conj	9436 Dec 07 14:17	21°♄32'30	1°28'30		9437 Nov 18 18:25	0°♄	
minimum elong	9436 Dec 07 16:37	21°♄44'15	1°28'37				
	9436 Dec 11 21:07	0°♄		superior conj	9437 Nov 21 13:16	5°♄52'24	1°38'00
max. Earth dist.	9436 Dec 13 03:59	2°♄27'52	1.36681 AU	minimum elong	9437 Nov 21 14:22	5°♄58'13	1°38'15
evening rise	9436 Dec 16 23:26	9°♄33'06		max. Earth dist.	9437 Nov 25 16:21	14°♄21'52	1.34796 AU
desc. node	9436 Dec 20 22:55	16°♄36'20		evening rise	9437 Nov 29 22:37	22°♄43'49	
	9436 Dec 29 02:16	0°♄			9437 Dec 03 20:25	0°♄	
	9437 Jan 20 18:10	0°♄		desc. node	9437 Dec 07 19:56	7°♄00'25	
evening max el	9437 Jan 21 13:38	0°♄48'20	25°49'19		9437 Dec 22 19:35	0°♄	
retrograde	9437 Feb 03 00:58	7°♄56'14		evening max el	9438 Jan 04 03:05	14°♄31'22	26°46'31
evening set	9437 Feb 09 01:52	5°♄27'56		retrograde	9438 Jan 17 06:05	21°♄50'28	
asc. node	9437 Feb 12 17:41	1°♄38'01		evening set	9438 Jan 23 18:29	19°♄16'06	
min. Earth dist.	9437 Feb 13 08:54	0°♄51'11	0.67211 AU	min. Earth dist.	9438 Jan 27 19:31	15°♄13'53	0.66007 AU
	9437 Feb 14 01:11	30°♄		inferior conj	9438 Jan 29 18:13	12°♄57'11	-0°17'08
inferior conj	9437 Feb 14 19:51	29°♄00'58	0°40'51	minimum elong	9438 Jan 29 18:41	12°♄55'48	0°16'42
minimum elong	9437 Feb 14 18:50	29°♄04'09	0°40'37	asc. node	9438 Jan 30 14:50	11°♄57'15	
morning rise	9437 Feb 20 12:19	23°♄10'43		morning rise	9438 Feb 04 19:58	7°♄18'08	
direct	9437 Feb 23 19:14	22°♄08'50		direct	9438 Feb 07 16:49	6°♄32'43	
morning max el	9437 Mar 02 14:20	25°♄51'11	18°55'33	morning max el	9438 Feb 14 03:48	9°♄59'10	18°15'49
	9437 Mar 06 06:03	0°♄			9438 Feb 28 08:00	0°♄	
desc. node	9437 Mar 18 22:51	18°♄27'14		morning set	9438 Mar 05 10:37	8°♄12'11	
morning set	9437 Mar 25 02:15	27°♄58'37		desc. node	9438 Mar 05 19:42	8°♄48'42	
	9437 Mar 26 09:27	0°♄			9438 Mar 19 03:41	0°♄	
max. Earth dist.	9437 Apr 08 14:09	20°♄35'50	1.45345 AU				
				superior conj	9438 Mar 20 19:42	2°♄36'58	-1°36'07

minimum elong	9438 Mar 20 10:08	1° Υ 59'28	1°35'09	desc. node	9439 Feb 20 16:34	29° \approx 21'38	
max. Earth dist.	9438 Mar 22 09:56	5° Υ 06'40	1.45583 AU		9439 Feb 21 01:50	0° H	
evening rise	9438 Apr 05 20:48	27° Υ 40'53					
	9438 Apr 07 08:25	0° B		superior conj	9439 Feb 28 12:06	12° H 05'58	-0°55'17
greatest brilliancy	9438 Apr 17 01:33	15° B 04'07	-0.8m	minimum elong	9439 Feb 28 05:54	11° H 41'06	0°54'18
	9438 Apr 27 19:51	0° II		max. Earth dist.	9439 Mar 05 05:20	19° H 36'22	1.45079 AU
asc. node	9438 Apr 28 13:20	0° II 48'20			9439 Mar 11 20:56	0° Υ	
evening max el	9438 Apr 29 06:37	1° II 33'24	19°11'16	evening rise	9439 Mar 16 10:57	7° Υ 04'09	
retrograde	9438 May 06 05:28	5° II 27'46		greatest brilliancy	9439 Mar 31 09:42	29° Υ 34'26	-0.6m
evening set	9438 May 09 17:25	4° II 16'27			9439 Mar 31 16:45	0° B	
	9438 May 13 23:33	30° R B		evening max el	9439 Apr 12 10:40	15° B 13'24	20°06'33
inferior conj	9438 May 15 04:32	28° B 27'42	3°20'32	asc. node	9439 Apr 15 10:27	17° B 51'02	
minimum elong	9438 May 15 04:34	28° B 27'34	3°20'16	retrograde	9439 Apr 20 03:57	19° B 41'13	
min. Earth dist.	9438 May 16 15:56	26° B 33'31	0.66530 AU	evening set	9439 Apr 24 00:38	18° B 14'40	
morning rise	9438 May 20 15:18	22° B 08'10		inferior conj	9439 Apr 29 08:29	12° B 12'10	3°14'47
direct	9438 May 26 21:07	19° B 24'17		minimum elong	9439 Apr 29 07:28	12° B 15'40	3°14'29
desc. node	9438 Jun 01 19:45	21° B 21'50		min. Earth dist.	9439 Apr 30 05:29	11° B 01'00	0.67650 AU
morning max el	9438 Jun 08 14:04	26° B 59'18	26°08'46	morning rise	9439 May 04 14:01	5° B 54'05	
	9438 Jun 11 09:30	0° II		direct	9439 May 10 08:11	3° B 20'04	
	9438 Jul 02 20:05	0° B		desc. node	9439 May 19 16:43	8° B 07'49	
morning set	9438 Jul 14 15:15	20° B 28'05		morning max el	9439 May 21 23:42	10° B 19'12	24°46'41
max. Earth dist.	9438 Jul 18 12:34	27° B 50'54	1.35135 AU		9439 Jun 06 14:24	0° II	
	9438 Jul 19 15:02	0° Ω			9439 Jun 25 12:13	0° B	
				morning set	9439 Jun 26 21:39	2° B 26'30	
superior conj	9438 Jul 23 19:32	8° Ω 23'08	-0°16'53	max. Earth dist.	9439 Jun 30 12:13	8° B 55'42	1.37165 AU
minimum elong	9438 Jul 23 20:31	8° Ω 28'11	0°16'56				
asc. node	9438 Jul 25 12:32	11° Ω 53'26		superior conj	9439 Jul 07 04:57	21° B 36'02	-0°49'13
evening rise	9438 Jul 31 12:53	24° Ω 22'57		minimum elong	9439 Jul 07 08:04	21° B 51'15	0°48'58
	9438 Aug 03 06:57	0° H			9439 Jul 11 10:49	0° Ω	
evening max el	9438 Aug 19 00:13	24° H 42'15	20°33'07	asc. node	9439 Jul 12 09:29	1° Ω 53'38	
	9438 Aug 27 18:42	0° B		evening rise	9439 Jul 15 16:09	8° Ω 28'51	
desc. node	9438 Aug 28 18:32	0° B 09'57			9439 Jul 27 14:27	0° H	
retrograde	9438 Aug 30 04:52	0° B 15'13		evening max el	9439 Aug 01 13:25	6° H 05'14	19°25'10
evening set	9438 Sep 01 06:29	0° B 04'40		retrograde	9439 Aug 11 01:11	10° H 47'16	
	9438 Sep 01 16:37	30° R H		evening set	9439 Aug 12 21:22	10° H 37'25	
inferior conj	9438 Sep 10 10:21	26° H 07'44	-3°43'19	desc. node	9439 Aug 15 15:41	9° H 48'42	
minimum elong	9438 Sep 10 00:59	26° H 21'16	3°40'24	inferior conj	9439 Aug 21 13:44	6° H 30'39	-1°49'32
min. Earth dist.	9438 Sep 11 14:02	25° H 27'44	0.54753 AU	minimum elong	9439 Aug 21 08:49	6° H 38'37	1°47'48
morning rise	9438 Sep 18 19:08	22° H 06'05		min. Earth dist.	9439 Aug 24 02:17	4° H 52'52	0.55677 AU
direct	9438 Sep 22 23:14	21° H 28'47		morning rise	9439 Aug 29 17:38	1° H 56'49	
morning max el	9438 Oct 06 06:19	27° H 54'05	23°27'14	direct	9439 Sep 03 17:14	1° H 00'36	
	9438 Oct 08 08:35	0° B		morning max el	9439 Sep 17 18:17	8° H 04'52	25°12'04
asc. node	9438 Oct 21 12:33	19° B 01'00			9439 Oct 03 22:24	0° B	
	9438 Oct 27 04:55	0° H		asc. node	9439 Oct 08 09:27	8° B 10'51	
morning set	9438 Oct 29 20:23	5° H 31'26		morning set	9439 Oct 14 07:59	20° B 17'58	
					9439 Oct 18 18:56	0° H	
superior conj	9438 Nov 05 18:47	20° H 29'48	1°40'36				
minimum elong	9438 Nov 05 18:39	20° H 29'07	1°40'50	superior conj	9439 Oct 21 04:18	5° H 16'05	1°36'58
max. Earth dist.	9438 Nov 08 12:33	26° H 21'15	1.33292 AU	minimum elong	9439 Oct 21 03:07	5° H 09'36	1°37'04
	9438 Nov 10 06:19	0° H		max. Earth dist.	9439 Oct 22 16:04	8° H 32'16	1.32243 AU
evening rise	9438 Nov 13 10:38	6° H 28'24		evening rise	9439 Oct 28 08:08	20° H 37'13	
desc. node	9438 Nov 24 16:58	27° H 07'50			9439 Nov 02 01:09	0° H	
	9438 Nov 26 10:41	0° B		desc. node	9439 Nov 11 14:02	16° H 50'26	
evening max el	9438 Dec 17 15:48	27° B 58'30	27°21'52		9439 Nov 20 12:46	0° B	
	9438 Dec 19 21:44	0° \approx		evening max el	9439 Nov 30 02:06	10° B 56'52	27°28'54
retrograde	9438 Dec 31 05:11	5° \approx 20'06		retrograde	9439 Dec 13 21:23	18° B 14'32	
evening set	9439 Jan 07 02:25	2° \approx 46'05		evening set	9439 Dec 20 22:45	15° B 49'37	
	9439 Jan 10 05:23	30° R B		min. Earth dist.	9439 Dec 24 15:36	12° B 48'45	0.62596 AU
min. Earth dist.	9439 Jan 10 22:20	29° B 16'44	0.64452 AU	inferior conj	9439 Dec 27 12:16	10° B 04'59	-2°33'54
inferior conj	9439 Jan 13 08:40	26° B 41'12	-1°22'41	minimum elong	9439 Dec 27 17:16	9° B 53'01	2°31'38
minimum elong	9439 Jan 13 11:13	26° B 34'23	1°21'19	morning rise	9440 Jan 03 14:03	4° B 56'38	
asc. node	9439 Jan 17 11:56	22° B 43'39		asc. node	9440 Jan 04 09:01	4° B 43'06	
morning rise	9439 Jan 19 21:44	21° B 16'04		direct	9440 Jan 05 20:45	4° B 32'52	
direct	9439 Jan 22 10:21	20° B 43'23		morning max el	9440 Jan 12 14:04	7° B 59'02	17°47'45
morning max el	9439 Jan 28 20:46	24° B 04'53	17°53'00		9440 Jan 27 01:16	0° \approx	
	9439 Feb 02 16:41	0° \approx		morning set	9440 Jan 28 13:06	2° \approx 38'03	
morning set	9439 Feb 14 23:59	19° \approx 51'13		desc. node	9440 Feb 07 13:26	20° \approx 01'26	

superior conj	9440 Feb 09 03:36	22° \approx 42'06	-0°11'49	asc. node	9440 Dec 21 06:04	18° \approx 16'40	
minimum elong	9440 Feb 09 02:26	22° \approx 37'14	0°11'26	morning max el	9440 Dec 26 04:20	21° \approx 32'34	18°01'08
behind sun begin	9440 Feb 08 20:02	22° \approx 10'22			9441 Jan 01 15:03	0° \approx	
behind sun end	9440 Feb 09 08:50	23° \approx 04'03		morning set	9441 Jan 10 19:30	16° \approx 13'16	
	9440 Feb 13 13:30	0° \approx			9441 Jan 18 07:46	0° \approx	
max. Earth dist.	9440 Feb 15 22:00	3° \approx 48'54	1.43893 AU				
evening rise	9440 Feb 23 23:28	16° \approx 31'39		superior conj	9441 Jan 20 20:08	4° \approx 29'08	0°26'54
	9440 Mar 03 20:32	0° \approx		minimum elong	9441 Jan 20 22:15	4° \approx 38'30	0°26'51
evening max el	9440 Mar 25 09:10	28° \approx 54'44	21°14'53	desc. node	9441 Jan 24 10:21	10° \approx 44'38	
	9440 Mar 26 11:57	0° \approx		max. Earth dist.	9441 Jan 28 10:34	17° \approx 31'17	1.42160 AU
asc. node	9440 Apr 01 07:35	3° \approx 46'41		evening rise	9441 Feb 03 00:50	26° \approx 38'04	
retrograde	9440 Apr 03 02:24	4° \approx 02'37			9441 Feb 05 03:50	0° \approx	
evening set	9440 Apr 07 08:56	2° \approx 20'45			9441 Feb 25 15:15	0° \approx	
	9440 Apr 09 17:06	30° \approx 8'00		evening max el	9441 Mar 08 02:55	12° \approx 38'05	22°31'58
inferior conj	9440 Apr 12 15:57	26° \approx 06'45	2°57'51	retrograde	9441 Mar 17 23:04	18° \approx 27'34	
minimum elong	9440 Apr 12 14:09	26° \approx 13'00	2°57'25	asc. node	9441 Mar 19 04:45	18° \approx 19'59	
min. Earth dist.	9440 Apr 12 23:36	25° \approx 40'10	0.68316 AU	evening set	9441 Mar 22 16:39	16° \approx 30'37	
morning rise	9440 Apr 17 19:09	19° \approx 52'14		inferior conj	9441 Mar 28 00:49	10° \approx 07'51	2°31'04
direct	9440 Apr 23 00:05	17° \approx 35'08		minimum elong	9441 Mar 27 22:38	10° \approx 15'27	2°30'29
morning max el	9440 May 03 09:16	23° \approx 45'50	23°17'11	min. Earth dist.	9441 Mar 27 20:00	10° \approx 24'34	0.68543 AU
desc. node	9440 May 05 13:39	26° \approx 04'53		morning rise	9441 Apr 02 04:27	3° \approx 58'23	
	9440 May 08 21:55	0° \approx		direct	9441 Apr 06 19:39	2° \approx 02'19	
	9440 May 29 23:53	0° \approx		morning max el	9441 Apr 15 21:55	7° \approx 20'33	21°49'31
morning set	9440 Jun 07 05:25	13° \approx 20'52		desc. node	9441 Apr 22 10:34	14° \approx 53'15	
max. Earth dist.	9440 Jun 11 08:21	20° \approx 22'48	1.39418 AU		9441 May 03 09:14	0° \approx	
	9440 Jun 16 18:16	0° \approx		morning set	9441 May 18 10:18	23° \approx 00'12	
					9441 May 22 17:50	0° \approx	
superior conj	9440 Jun 19 00:08	4° \approx 07'16	-1°21'21	max. Earth dist.	9441 May 24 08:19	2° \approx 39'06	1.41634 AU
minimum elong	9440 Jun 19 05:21	4° \approx 31'26	1°20'56				
evening rise	9440 Jun 28 11:29	22° \approx 09'38		superior conj	9441 Jun 01 00:28	15° \approx 45'11	-1°49'35
asc. node	9440 Jun 28 06:27	21° \approx 45'21		minimum elong	9441 Jun 01 06:36	16° \approx 12'04	1°49'18
	9440 Jul 02 14:16	0° \approx			9441 Jun 08 22:40	0° \approx	
evening max el	9440 Jul 14 14:25	18° \approx 13'12	18°38'19	evening rise	9441 Jun 11 19:09	5° \approx 15'01	
retrograde	9440 Jul 22 14:52	22° \approx 12'53		asc. node	9441 Jun 15 03:28	11° \approx 23'21	
evening set	9440 Jul 24 15:42	21° \approx 05'21			9441 Jun 27 01:44	0° \approx	
inferior conj	9440 Aug 01 13:09	17° \approx 03'06	-0°00'14	evening max el	9441 Jun 27 23:13	0° \approx 55'49	18°11'54
minimum elong	9440 Aug 01 13:08	17° \approx 03'08	0°00'27	retrograde	9441 Jul 04 23:33	4° \approx 28'29	
transit middle	9440 Aug 01 13:08	17° \approx 03'08	0°00'27	evening set	9441 Jul 07 07:51	4° \approx 05'18	
transit begin	9440 Aug 01 09:29	17° \approx 40'00			9441 Jul 13 15:29	30° \approx 8'00	
transit end	9440 Aug 01 16:46	17° \approx 26'15		inferior conj	9441 Jul 14 10:09	29° \approx 19'10	1°26'03
desc. node	9440 Aug 01 12:50	17° \approx 03'41		minimum elong	9441 Jul 14 12:39	29° \approx 13'36	1°24'55
min. Earth dist.	9440 Aug 04 19:15	15° \approx 06'39	0.57371 AU	min. Earth dist.	9441 Jul 17 18:38	26° \approx 22'52	0.59514 AU
morning rise	9440 Aug 09 07:03	12° \approx 22'12		desc. node	9441 Jul 19 09:59	25° \approx 04'42	
direct	9440 Aug 15 01:58	10° \approx 58'51		morning rise	9441 Jul 21 14:23	23° \approx 36'53	
morning max el	9440 Aug 29 09:53	18° \approx 31'07	26°40'00	direct	9441 Jul 27 23:44	21° \approx 43'10	
	9440 Sep 08 01:21	0° \approx		morning max el	9441 Aug 11 08:14	29° \approx 33'46	27°37'09
asc. node	9440 Sep 24 06:22	27° \approx 43'26			9441 Aug 11 18:47	0° \approx	
	9440 Sep 25 09:12	0° \approx			9441 Sep 02 00:46	0° \approx	
morning set	9440 Sep 27 18:06	4° \approx 57'31		asc. node	9441 Sep 11 03:16	17° \approx 31'37	
				morning set	9441 Sep 12 00:57	19° \approx 24'39	
superior conj	9440 Oct 04 15:50	20° \approx 05'19	1°27'39		9441 Sep 16 22:51	0° \approx	
minimum elong	9440 Oct 04 13:55	19° \approx 54'42	1°27'32	max. Earth dist.	9441 Sep 18 10:23	3° \approx 16'18	1.31567 AU
max. Earth dist.	9440 Oct 05 00:32	20° \approx 53'39	1.31671 AU				
	9440 Oct 09 03:48	0° \approx		superior conj	9441 Sep 19 03:28	4° \approx 51'03	1°13'01
evening rise	9440 Oct 11 12:26	5° \approx 03'18		minimum elong	9441 Sep 19 01:13	4° \approx 38'38	1°12'41
	9440 Oct 24 16:51	0° \approx		evening rise	9441 Sep 25 21:08	19° \approx 39'18	
desc. node	9440 Oct 28 11:10	5° \approx 58'29			9441 Sep 30 21:28	0° \approx	
evening max el	9440 Nov 11 07:37	23° \approx 14'24	27°02'45	desc. node	9441 Oct 15 08:19	24° \approx 18'12	
	9440 Nov 22 02:16	0° \approx			9441 Oct 19 19:36	0° \approx	
retrograde	9440 Nov 25 05:23	0° \approx 24'42		evening max el	9441 Oct 24 05:41	4° \approx 41'26	26°02'55
	9440 Nov 28 06:59	30° \approx 8'00		retrograde	9441 Nov 07 03:34	11° \approx 44'35	
evening set	9440 Dec 02 03:47	28° \approx 19'05		evening set	9441 Nov 13 12:53	10° \approx 07'36	
min. Earth dist.	9440 Dec 05 22:17	25° \approx 38'04	0.60542 AU	min. Earth dist.	9441 Nov 17 18:30	7° \approx 32'41	0.58451 AU
inferior conj	9440 Dec 09 01:42	23° \approx 00'00	-3°46'24	inferior conj	9441 Nov 20 21:26	5° \approx 16'23	-4°51'30
minimum elong	9440 Dec 09 08:50	22° \approx 44'59	3°43'47	minimum elong	9441 Nov 21 04:50	5° \approx 02'52	4°49'36
morning rise	9440 Dec 16 16:23	18° \approx 11'29		morning rise	9441 Nov 28 23:10	0° \approx 50'25	
direct	9440 Dec 18 20:26	17° \approx 52'59		direct	9441 Dec 01 05:00	0° \approx 33'52	

asc. node	9441 Dec 08 03:06	3°♊22'33		asc. node	9442 Nov 25 00:07	19°♍47'33	
morning max el	9441 Dec 09 11:57	4°♊35'45	18°34'52		9442 Dec 01 21:19	0°♊	
	9441 Dec 25 09:32	0°♊		morning set	9442 Dec 09 16:27	14°♊50'15	
morning set	9441 Dec 25 13:57	0°♊21'20			9442 Dec 17 06:01	0°♊	
superior conj	9442 Jan 03 10:01	17°♊16'38	0°57'34	superior conj	9442 Dec 17 16:09	0°♊49'44	1°19'35
minimum elong	9442 Jan 03 13:15	17°♊31'41	0°57'26	minimum elong	9442 Dec 17 19:02	1°♊03'53	1°19'36
	9442 Jan 10 11:06	0°♊		max. Earth dist.	9442 Dec 24 00:48	12°♊55'36	1.37879 AU
max. Earth dist.	9442 Jan 10 18:55	0°♊34'05	1.40072 AU	evening rise	9442 Dec 27 18:05	19°♊37'26	
desc. node	9442 Jan 11 07:18	1°♊27'50		desc. node	9442 Dec 29 04:16	22°♊06'51	
evening rise	9442 Jan 14 22:45	7°♊39'50			9443 Jan 02 20:18	0°♊	
	9442 Jan 29 04:42	0°♊			9443 Jan 23 08:09	0°♊	
evening max el	9442 Feb 18 17:31	26°♊24'32	23°52'13	evening max el	9443 Feb 01 06:43	10°♊12'30	25°09'16
	9442 Feb 22 19:21	0°♊		retrograde	9443 Feb 13 06:19	17°♊09'26	
retrograde	9442 Mar 01 16:44	2°♊51'54		evening set	9443 Feb 19 00:15	14°♊46'14	
asc. node	9442 Mar 06 01:54	1°♊20'40		asc. node	9443 Feb 20 23:04	12°♊51'37	
evening set	9442 Mar 06 22:18	0°♊40'48		min. Earth dist.	9443 Feb 23 10:57	9°♊49'47	0.67733 AU
	9442 Mar 07 16:13	30°♊		inferior conj	9443 Feb 24 15:19	8°♊17'13	1°10'29
min. Earth dist.	9442 Mar 11 16:31	25°♊09'37	0.68343 AU	minimum elong	9443 Feb 24 13:44	8°♊22'24	1°10'01
inferior conj	9442 Mar 12 09:14	24°♊12'43	1°55'11	morning rise	9443 Mar 02 03:33	2°♊21'53	
minimum elong	9442 Mar 12 07:06	24°♊20'00	1°54'32	direct	9443 Mar 05 16:52	1°♊09'14	
morning rise	9442 Mar 17 15:55	18°♊09'36		morning max el	9443 Mar 12 20:16	5°♊06'13	19°25'56
direct	9442 Mar 21 17:42	16°♊35'49		greatest brilliancy	9443 Mar 25 14:38	21°♊51'41	-0.7m
morning max el	9442 Mar 29 17:09	21°♊07'39	20°30'59	desc. node	9443 Mar 27 04:19	24°♊12'02	
	9442 Apr 06 03:45	0°♊			9443 Mar 31 00:28	0°♊	
desc. node	9442 Apr 09 07:27	4°♊19'12		morning set	9443 Apr 06 14:28	10°♊05'20	
	9442 Apr 26 14:14	0°♊		max. Earth dist.	9443 Apr 19 05:12	29°♊44'30	1.44871 AU
morning set	9442 Apr 27 15:37	1°♊38'08			9443 Apr 19 09:07	0°♊	
max. Earth dist.	9442 May 06 15:39	15°♊50'56	1.43526 AU				
superior conj	9442 May 13 01:41	26°♊21'16	-2°08'26	superior conj	9443 Apr 23 02:37	5°♊55'14	-2°11'30
minimum elong	9442 May 13 05:36	26°♊37'32	2°08'32	minimum elong	9443 Apr 23 00:10	5°♊45'29	2°11'38
	9442 May 15 05:57	0°♊		evening rise	9443 May 07 05:25	28°♊59'33	
evening rise	9442 May 25 10:44	17°♊35'09			9443 May 07 19:55	0°♊	
	9442 Jun 01 14:22	0°♊		asc. node	9443 May 19 21:35	19°♊36'17	
asc. node	9442 Jun 02 00:31	0°♊42'38		evening max el	9443 May 26 01:28	27°♊28'25	18°16'47
evening max el	9442 Jun 11 12:02	14°♊03'46	18°04'56		9443 May 29 07:09	0°♊	
retrograde	9442 Jun 17 23:43	17°♊25'00		retrograde	9443 Jun 01 10:43	0°♊52'30	
evening set	9442 Jun 20 15:40	16°♊50'23		evening set	9443 Jun 04 10:09	0°♊04'36	
inferior conj	9442 Jun 27 02:01	11°♊44'36	2°25'28		9443 Jun 04 13:33	30°♊	
minimum elong	9442 Jun 27 04:52	11°♊37'22	2°24'25	inferior conj	9443 Jun 10 08:36	24°♊41'02	3°01'13
min. Earth dist.	9442 Jun 30 02:34	8°♊41'41	0.61774 AU	minimum elong	9443 Jun 10 10:36	24°♊35'21	3°00'34
morning rise	9442 Jul 03 15:54	5°♊41'02		min. Earth dist.	9443 Jun 12 19:56	21°♊53'02	0.63887 AU
desc. node	9442 Jul 06 07:05	4°♊11'43		morning rise	9443 Jun 16 09:45	18°♊26'06	
direct	9442 Jul 10 08:34	3°♊20'15		direct	9443 Jun 23 02:42	15°♊47'01	
morning max el	9442 Jul 24 13:15	11°♊21'29	27°56'30	desc. node	9443 Jun 23 04:08	15°♊47'02	
	9442 Aug 08 05:02	0°♊		morning max el	9443 Jul 06 22:28	23°♊49'11	27°38'27
	9442 Aug 25 08:19	0°♊			9443 Jul 12 11:13	0°♊	
morning set	9442 Aug 27 02:39	3°♊34'13			9443 Aug 01 13:37	0°♊	
asc. node	9442 Aug 29 00:10	7°♊30'14		morning set	9443 Aug 10 20:47	17°♊19'47	
max. Earth dist.	9442 Sep 01 17:44	15°♊29'17	1.31933 AU	asc. node	9443 Aug 15 21:05	27°♊34'52	
				max. Earth dist.	9443 Aug 15 18:31	27°♊21'24	1.32784 AU
					9443 Aug 17 00:34	0°♊	
superior conj	9442 Sep 03 13:24	19°♊28'00	0°53'24	superior conj	9443 Aug 18 19:44	3°♊50'41	0°29'11
minimum elong	9442 Sep 03 11:20	19°♊16'37	0°52'57	minimum elong	9443 Aug 18 18:22	3°♊43'23	0°28'45
	9442 Sep 08 08:21	0°♊		evening rise	9443 Aug 25 19:44	18°♊57'46	
evening rise	9442 Sep 10 08:12	4°♊19'17			9443 Aug 31 04:39	0°♊	
	9442 Sep 23 21:10	0°♊		evening max el	9443 Sep 17 06:40	25°♊30'49	22°56'37
desc. node	9442 Oct 02 05:29	11°♊30'46		desc. node	9443 Sep 19 02:39	27°♊11'04	
evening max el	9442 Oct 05 19:42	15°♊19'25	24°36'02		9443 Sep 23 01:45	0°♊	
retrograde	9442 Oct 19 14:27	22°♊14'48		retrograde	9443 Sep 30 13:14	2°♊08'14	
evening set	9442 Oct 24 21:54	21°♊12'01		evening set	9443 Oct 04 08:56	1°♊36'19	
min. Earth dist.	9442 Oct 30 06:45	18°♊24'33	0.56568 AU		9443 Oct 08 11:39	30°♊	
inferior conj	9442 Nov 01 20:57	16°♊45'49	-5°34'10	min. Earth dist.	9443 Oct 11 15:19	28°♊18'05	0.55204 AU
minimum elong	9442 Nov 02 00:36	16°♊40'01	5°33'39	inferior conj	9443 Oct 13 01:26	27°♊28'58	-5°34'13
morning rise	9442 Nov 10 05:29	12°♊42'07		minimum elong	9443 Oct 12 21:26	27°♊34'46	5°33'45
direct	9442 Nov 12 18:34	12°♊24'27		morning rise	9443 Oct 21 11:51	23°♊39'43	
morning max el	9442 Nov 22 09:14	16°♊58'15	19°30'35				

direct	9443 Oct 24 13:29	23°  17'43		evening set	9444 Sep 12 14:26	11°  36'27	
morning max el	9443 Nov 04 17:35	28°  32'43	20°48'40	inferior conj	9444 Sep 21 18:32	7°  39'53	-4°38'05
	9443 Nov 06 04:34	0°  11		minimum elong	9444 Sep 21 09:01	7°  53'14	4°35'45
asc. node	9443 Nov 11 21:06	7°  16'02		min. Earth dist.	9444 Sep 21 23:28	7°  32'57	0.54649 AU
morning set	9443 Nov 24 00:09	29°  13'27		morning rise	9444 Sep 30 04:19	3°  48'33	
	9443 Nov 24 05:32	0°  17		direct	9444 Oct 03 22:19	3°  18'08	
				morning max el	9444 Oct 16 13:19	9°  18'40	22°25'59
superior conj	9443 Dec 01 10:03	14°  55'56	1°33'25	asc. node	9444 Oct 28 18:02	25°  32'47	
minimum elong	9443 Dec 01 11:54	15°  05'20	1°33'36		9444 Oct 31 06:16	0°  11	
max. Earth dist.	9443 Dec 06 09:03	24°  51'37	1.35831 AU	morning set	9444 Nov 07 10:47	14°  11'53	
	9443 Dec 09 01:19	0°  03					
evening rise	9443 Dec 10 08:13	2°  32'43		superior conj	9444 Nov 14 12:08	29°  11'23'56	1°39'54
desc. node	9443 Dec 16 01:16	12°  37'51		minimum elong	9444 Nov 14 12:43	29°  11'26'58	1°40'09
	9443 Dec 26 20:44	0°  08			9444 Nov 14 18:57	0°  17	
evening max el	9444 Jan 14 19:55	23°  59'08	26°15'52	max. Earth dist.	9444 Nov 18 00:25	6°  17'45'04	1.34106 AU
	9444 Jan 22 19:32	0°  18		evening rise	9444 Nov 22 13:19	15°  17'50'50	
retrograde	9444 Jan 27 14:56	1°  18'59			9444 Nov 30 05:31	0°  03	
	9444 Feb 01 00:27	30°  08		desc. node	9444 Dec 01 22:17	2°  35'52'21	
evening set	9444 Feb 02 20:50	28°  42'20			9444 Dec 20 10:19	0°  08	
min. Earth dist.	9444 Feb 07 01:08	24°  20'19	0.66739 AU	evening max el	9444 Dec 27 09:19	7°  36'51	27°04'44
asc. node	9444 Feb 07 20:12	23°  22'09		retrograde	9445 Jan 09 17:40	14°  35'58'05	
inferior conj	9444 Feb 08 17:08	22°  22'44	0°17'14	evening set	9445 Jan 16 10:02	12°  33'23'15	
minimum elong	9444 Feb 08 16:40	22°  22'19'09	0°17'16	min. Earth dist.	9445 Jan 20 08:50	8°  35'35'00	0.65381 AU
morning rise	9444 Feb 14 13:17	16°  31'59		inferior conj	9445 Jan 22 12:26	6°  33'09'21	-0°44'07
direct	9444 Feb 17 15:35	15°  37'42		minimum elong	9445 Jan 22 13:44	6°  33'05'42	0°43'18
morning max el	9444 Feb 24 06:30	19°  31'12'13	18°36'35	asc. node	9445 Jan 24 17:20	3°  33'45'26	
	9444 Mar 03 16:35	0°  18		morning rise	9445 Jan 28 18:45	0°  33'35'36	
desc. node	9444 Mar 13 01:10	14°  18'24'30			9445 Jan 30 15:20	30°  08'18'30	
morning set	9444 Mar 16 06:27	19°  18'28'32		direct	9445 Jan 31 11:48	29°  08'35'60'4	
	9444 Mar 22 23:09	0°  09			9445 Feb 01 08:21	0°  08	
				morning max el	9445 Feb 06 21:43	3°  33'19'28	18°03'57
superior conj	9444 Apr 01 10:34	14°  09'50'02	-1°54'27		9445 Feb 24 22:43	0°  18	
minimum elong	9444 Apr 01 01:51	14°  09'15'57	1°53'52	morning set	9445 Feb 25 03:29	0°  18'19'31	
max. Earth dist.	9444 Mar 31 22:53	14°  09'04'20	1.45534 AU	desc. node	9445 Feb 27 22:01	4°  18'51'09	
	9444 Apr 11 02:07	0°  08					
evening rise	9444 Apr 17 00:18	9°  08'24'26		superior conj	9445 Mar 11 18:30	23°  08'51'59	-1°19'45
greatest brilliancy	9444 Apr 25 05:05	22°  08'27'41	-0.8m	minimum elong	9445 Mar 11 09:48	23°  08'17'38	1°18'40
	9444 Apr 30 02:06	0°  02		max. Earth dist.	9445 Mar 14 18:40	28°  08'35'55	1.45455 AU
asc. node	9444 May 05 18:41	7°  02'55'46			9445 Mar 15 16:07	0°  09	
evening max el	9444 May 08 12:49	11°  02'02'54	18°46'34	evening rise	9445 Mar 27 22:06	19°  09'02'06	
retrograde	9444 May 15 04:25	14°  02'42'42			9445 Apr 04 00:54	0°  08	
evening set	9444 May 18 11:38	13°  02'40'14		greatest brilliancy	9445 Apr 10 01:59	9°  08'09'33	-0.7m
inferior conj	9444 May 24 01:58	8°  02'00'30	3°17'56	evening max el	9445 Apr 21 20:02	24°  08'42'23	19°33'06
minimum elong	9444 May 24 02:43	7°  02'58'09	3°17'36	asc. node	9445 Apr 22 15:48	25°  08'30'31	
min. Earth dist.	9444 May 25 22:12	5°  02'43'28	0.65683 AU	retrograde	9445 Apr 29 01:50	28°  08'49'30	
morning rise	9444 May 29 17:06	1°  02'41'19		evening set	9445 May 02 17:25	27°  08'31'45	
	9444 Jun 01 02:40	30°  08'18'30		inferior conj	9445 May 08 02:50	21°  08'37'12	3°19'33
direct	9444 Jun 05 04:23	28°  08'55'39		minimum elong	9445 May 08 02:24	21°  08'38'40	3°19'18
desc. node	9444 Jun 09 01:09	29°  08'45'34		min. Earth dist.	9445 May 09 08:02	20°  08'00'46	0.67062 AU
	9444 Jun 09 14:23	0°  02		morning rise	9445 May 13 11:01	15°  08'18'10	
morning max el	9444 Jun 18 08:58	6°  02'45'05	26°48'30	direct	9445 May 19 12:20	12°  08'37'14	
	9444 Jul 06 07:09	0°  08		desc. node	9445 May 26 22:07	15°  08'39'15	
	9444 Jul 23 21:31	0°  08		morning max el	9445 May 31 18:56	19°  08'58'24	25°35'26
morning set	9444 Jul 24 04:15	0°  08'32'02			9445 Jun 09 08:35	0°  02	
max. Earth dist.	9444 Jul 28 09:24	8°  08'46'11	1.34139 AU		9445 Jun 29 10:15	0°  08	
				morning set	9445 Jul 06 21:11	13°  08'01'05	
superior conj	9444 Aug 01 20:09	17°  08'52'03	0°00'55	max. Earth dist.	9445 Jul 10 13:50	19°  08'52'20	1.35960 AU
minimum elong	9444 Aug 01 20:07	17°  08'51'52	0°00'40		9445 Jul 15 18:55	0°  08	
behind sun begin	9444 Aug 01 14:24	17°  08'22'02					
behind sun end	9444 Aug 02 01:51	18°  08'21'45		superior conj	9445 Jul 16 12:02	1°  08'25'30	-0°30'25
asc. node	9444 Aug 01 17:59	17°  08'40'40		minimum elong	9445 Jul 16 13:54	1°  08'34'47	0°30'21
	9444 Aug 07 14:12	0°  08		asc. node	9445 Jul 19 14:55	7°  08'44'21	
evening rise	9444 Aug 09 05:46	3°  08'28'18		evening rise	9445 Jul 24 12:14	17°  08'45'31	
	9444 Aug 24 00:11	0°  08			9445 Jul 30 17:35	0°  08	
evening max el	9444 Aug 28 23:38	5°  08'50'44	21°21'15	evening max el	9445 Aug 11 05:05	16°  08'47'40	20°01'38
desc. node	9444 Sep 04 23:50	10°  08'47'27		retrograde	9445 Aug 21 15:52	21°  08'58'03	
retrograde	9444 Sep 10 02:11	11°  08'50'57		desc. node	9445 Aug 22 20:59	21°  08'54'09	

evening set	9445 Aug 23 13:38	21° \mathbb{M} 48'29	desc. node	9446 Aug 09 18:08	0° \mathbb{M} 36'03
inferior conj	9445 Sep 01 14:07	17° \mathbb{M} 48'57 -2°56'25		9446 Aug 10 17:40	30° \mathbb{R} 0
minimum elong	9445 Sep 01 06:14	18° \mathbb{M} 00'47 2°53'43	inferior conj	9446 Aug 13 01:21	28° \mathbb{Q} 26'54 -1°01'08
min. Earth dist.	9445 Sep 03 09:24	16° \mathbb{M} 44'01 0.55048 AU	minimum elong	9446 Aug 12 22:43	28° \mathbb{Q} 31'27 1°00'17
morning rise	9445 Sep 09 21:28	13° \mathbb{M} 35'27	min. Earth dist.	9446 Aug 15 23:10	26° \mathbb{Q} 27'02 0.56325 AU
direct	9445 Sep 14 10:01	12° \mathbb{M} 50'58	morning rise	9446 Aug 21 01:39	23° \mathbb{Q} 37'22
morning max el	9445 Sep 28 01:44	19° \mathbb{M} 33'21 24°12'40	direct	9446 Aug 26 09:39	22° \mathbb{Q} 30'44
	9445 Oct 06 20:36	0° \mathbb{L}	morning max el	9446 Sep 09 14:40	29° \mathbb{Q} 47'25 25°52'33
asc. node	9445 Oct 15 14:57	14° \mathbb{L} 26'08		9446 Sep 09 19:54	0° \mathbb{M}
morning set	9445 Oct 22 22:34	29° \mathbb{L} 08'29		9446 Sep 30 12:55	0° \mathbb{L}
	9445 Oct 23 08:13	0° \mathbb{M}	asc. node	9446 Oct 02 11:52	3° \mathbb{L} 46'47
			morning set	9446 Oct 07 09:47	13° \mathbb{L} 53'12
superior conj	9445 Oct 29 19:38	14° \mathbb{M} 05'33 1°39'47			
minimum elong	9445 Oct 29 19:01	14° \mathbb{M} 02'15 1°39'58	superior conj	9446 Oct 14 06:17	28° \mathbb{L} 54'07 1°33'41
max. Earth dist.	9445 Nov 01 00:10	18° \mathbb{M} 49'54 1.32799 AU	minimum elong	9446 Oct 14 04:45	28° \mathbb{L} 45'38 1°33'42
evening rise	9445 Nov 06 05:47	29° \mathbb{M} 46'42		9446 Oct 14 18:12	0° \mathbb{M}
	9445 Nov 06 08:25	0° \mathbb{X}	max. Earth dist.	9446 Oct 15 06:26	1° \mathbb{M} 07'32 1.31945 AU
desc. node	9445 Nov 18 19:21	22° \mathbb{X} 53'05	evening rise	9446 Oct 21 06:32	14° \mathbb{M} 04'02
	9445 Nov 23 06:59	0° \mathbb{Z}		9446 Oct 29 09:44	0° \mathbb{X}
evening max el	9445 Dec 09 21:30	20° \mathbb{Z} 53'42 27°28'42	desc. node	9446 Nov 05 16:27	12° \mathbb{X} 22'52
retrograde	9445 Dec 23 13:39	28° \mathbb{Z} 13'17		9446 Nov 18 17:44	0° \mathbb{Z}
evening set	9445 Dec 30 13:22	25° \mathbb{Z} 42'18	evening max el	9446 Nov 22 06:08	3° \mathbb{Z} 36'32 27°21'53
min. Earth dist.	9446 Jan 03 07:48	22° \mathbb{Z} 25'39 0.63695 AU	retrograde	9446 Dec 06 02:23	10° \mathbb{Z} 50'50
inferior conj	9446 Jan 05 22:39	19° \mathbb{Z} 45'32 -1°52'25	evening set	9446 Dec 13 03:45	8° \mathbb{Z} 32'40
minimum elong	9446 Jan 06 02:14	19° \mathbb{Z} 36'24 1°50'38	min. Earth dist.	9446 Dec 16 20:26	5° \mathbb{Z} 41'55 0.61742 AU
asc. node	9446 Jan 11 14:26	14° \mathbb{Z} 58'12	inferior conj	9446 Dec 19 20:42	2° \mathbb{Z} 58'43 -3°04'50
morning rise	9446 Jan 12 16:59	14° \mathbb{Z} 26'54	minimum elong	9446 Dec 20 02:43	2° \mathbb{Z} 45'05 3°02'20
direct	9446 Jan 15 02:52	13° \mathbb{Z} 58'20		9446 Dec 23 09:50	30° \mathbb{R} 2
morning max el	9446 Jan 21 15:09	17° \mathbb{Z} 20'33 17°48'34	morning rise	9446 Dec 27 04:04	27° \mathbb{X} 58'36
	9446 Jan 30 18:43	0° \mathbb{M}	direct	9446 Dec 29 09:19	27° \mathbb{X} 37'24
morning set	9446 Feb 07 03:48	12° \mathbb{M} 29'52	asc. node	9446 Dec 29 11:31	27° \mathbb{X} 37'27
desc. node	9446 Feb 14 18:52	25° \mathbb{M} 27'12		9447 Jan 04 01:39	0° \mathbb{Z}
	9446 Feb 17 12:33	0° \mathbb{X}	morning max el	9447 Jan 05 07:40	1° \mathbb{Z} 07'49 17°51'08
			morning set	9447 Jan 21 01:03	25° \mathbb{Z} 40'02
superior conj	9446 Feb 19 19:47	3° \mathbb{X} 46'39 -0°36'35		9447 Jan 23 10:49	0° \mathbb{M}
minimum elong	9446 Feb 19 15:48	3° \mathbb{X} 30'25 0°35'51			
max. Earth dist.	9446 Feb 25 13:40	13° \mathbb{X} 01'45 1.44651 AU	superior conj	9447 Jan 31 22:17	14° \mathbb{M} 54'31 0°05'29
evening rise	9446 Mar 07 09:36	28° \mathbb{X} 22'20	minimum elong	9447 Jan 31 22:48	14° \mathbb{M} 56'46 0°05'38
	9446 Mar 08 11:06	0° \mathbb{Y}	behind sun begin	9447 Jan 31 14:45	14° \mathbb{M} 22'14
	9446 Mar 28 22:29	0° \mathbb{B}	behind sun end	9447 Feb 01 06:52	15° \mathbb{M} 31'13
evening max el	9446 Apr 04 21:45	8° \mathbb{B} 22'56 20°34'18	desc. node	9447 Feb 01 15:46	16° \mathbb{M} 09'14
asc. node	9446 Apr 09 12:57	12° \mathbb{B} 06'37	max. Earth dist.	9447 Feb 08 05:09	27° \mathbb{M} 04'48 1.43211 AU
retrograde	9446 Apr 13 00:27	13° \mathbb{B} 06'51		9447 Feb 10 00:23	0° \mathbb{X}
evening set	9446 Apr 17 01:19	11° \mathbb{B} 33'33	evening rise	9447 Feb 15 02:13	8° \mathbb{X} 03'22
inferior conj	9446 Apr 22 08:32	5° \mathbb{B} 25'55 3°08'52		9447 Mar 01 16:23	0° \mathbb{Y}
minimum elong	9446 Apr 22 07:08	5° \mathbb{B} 30'43 3°08'31	evening max el	9447 Mar 18 18:00	22° \mathbb{Y} 04'33 21°46'50
min. Earth dist.	9446 Apr 22 23:40	4° \mathbb{B} 33'58 0.67988 AU	asc. node	9447 Mar 27 10:06	27° \mathbb{Y} 29'08
	9446 Apr 26 15:54	30° \mathbb{R} Y	retrograde	9447 Mar 27 22:26	27° \mathbb{Y} 30'27
morning rise	9446 Apr 27 12:44	29° \mathbb{Y} 09'25	evening set	9447 Apr 01 09:35	25° \mathbb{Y} 41'53
direct	9446 May 03 01:25	26° \mathbb{Y} 42'05	inferior conj	9447 Apr 06 16:50	19° \mathbb{Y} 23'31 2°47'40
	9446 May 10 11:50	0° \mathbb{B}	minimum elong	9447 Apr 06 14:49	19° \mathbb{Y} 30'32 2°47'08
desc. node	9446 May 13 19:05	2° \mathbb{B} 58'01	min. Earth dist.	9447 Apr 06 19:00	19° \mathbb{Y} 15'59 0.68465 AU
morning max el	9446 May 14 04:15	3° \mathbb{B} 21'00 24°09'03	morning rise	9447 Apr 11 19:54	13° \mathbb{Y} 11'04
	9446 Jun 03 12:48	0° \mathbb{I}	direct	9447 Apr 16 18:53	11° \mathbb{Y} 02'53
morning set	9446 Jun 18 18:35	24° \mathbb{I} 33'26	morning max el	9447 Apr 26 14:53	16° \mathbb{Y} 51'15 22°39'13
	9446 Jun 21 21:06	0° \mathbb{S}	desc. node	9447 Apr 30 16:01	21° \mathbb{Y} 18'53
max. Earth dist.	9446 Jun 22 11:29	1° \mathbb{S} 04'10 1.38115 AU		9447 May 07 10:53	0° \mathbb{B}
				9447 May 27 14:11	0° \mathbb{I}
superior conj	9446 Jun 29 15:55	14° \mathbb{S} 21'46 -1°03'02	morning set	9447 May 30 15:12	4° \mathbb{I} 56'14
minimum elong	9446 Jun 29 19:59	14° \mathbb{S} 41'09 1°02'41	max. Earth dist.	9447 Jun 04 08:46	12° \mathbb{I} 50'41 1.40380 AU
asc. node	9446 Jul 06 11:53	27° \mathbb{S} 41'28			
	9446 Jul 07 15:54	0° \mathbb{Q}	superior conj	9447 Jun 12 03:36	26° \mathbb{I} 30'54 -1°34'06
evening rise	9446 Jul 08 12:32	1° \mathbb{Q} 41'49	minimum elong	9447 Jun 12 09:27	26° \mathbb{I} 57'24 1°33'41
evening max el	9446 Jul 24 23:38	28° \mathbb{Q} 30'04 19°02'36		9447 Jun 14 01:29	0° \mathbb{S}
	9446 Jul 26 15:35	0° \mathbb{M}	evening rise	9447 Jun 22 03:24	15° \mathbb{S} 08'39
retrograde	9446 Aug 02 19:11	2° \mathbb{M} 52'44	asc. node	9447 Jun 23 08:53	17° \mathbb{S} 27'52
evening set	9446 Aug 04 16:41	2° \mathbb{M} 41'23		9447 Jun 30 06:49	0° \mathbb{Q}

evening max el	9447 Jul 08 04:21	10°Ω53'24	18°24'37	retrograde	9448 Jun 27 09:03	27°Ω14'17	
retrograde	9447 Jul 15 17:21	14°Ω40'07		evening set	9448 Jun 29 20:33	26°Ω46'39	
evening set	9447 Jul 17 21:04	14°Ω22'26		inferior conj	9448 Jul 06 15:38	21°Ω52'20	1°54'23
inferior conj	9447 Jul 25 10:07	9°Ω48'17	0°39'39	minimum elong	9448 Jul 06 18:30	21°Ω45'36	1°53'13
minimum elong	9447 Jul 25 11:30	9°Ω45'30	0°38'53	min. Earth dist.	9448 Jul 09 21:52	18°Ω50'01	0.60471 AU
desc. node	9447 Jul 27 15:18	8°Ω00'19		morning rise	9448 Jul 13 13:40	15°Ω59'37	
min. Earth dist.	9447 Jul 28 18:47	7°Ω06'17	0.58240 AU	desc. node	9448 Jul 13 12:25	16°Ω01'36	
morning rise	9447 Aug 01 22:25	4°Ω22'30		direct	9448 Jul 20 03:08	13°Ω53'13	
direct	9447 Aug 07 23:59	2°Ω46'23		morning max el	9448 Aug 03 10:35	21°Ω50'15	27°50'07
morning max el	9447 Aug 22 09:15	10°Ω28'13	27°08'45		9448 Aug 10 14:09	0°Ω	
	9447 Sep 06 10:57	0°Π			9448 Aug 29 12:26	0°Π	
asc. node	9447 Sep 19 08:45	23°Π26'51		morning set	9448 Sep 04 23:41	12°Π49'22	
morning set	9447 Sep 21 18:45	28°Π28'31		asc. node	9448 Sep 05 05:39	13°Π20'26	
	9447 Sep 22 11:58	0°Ω		max. Earth dist.	9448 Sep 11 01:00	25°Π50'15	1.31658 AU
superior conj	9447 Sep 28 18:04	13°Ω42'48	1°22'05	superior conj	9448 Sep 12 05:14	28°Π26'10	1°05'18
minimum elong	9447 Sep 28 15:58	13°Ω31'07	1°21'52	minimum elong	9448 Sep 12 03:00	28°Π13'50	1°04'55
max. Earth dist.	9447 Sep 28 15:55	13°Ω30'49	1.31563 AU		9448 Sep 12 22:11	0°Ω	
evening rise	9447 Oct 05 12:56	28°Ω35'04		evening rise	9448 Sep 18 22:52	13°Ω13'50	
	9447 Oct 06 04:59	0°Π			9448 Sep 27 07:21	0°Π	
	9447 Oct 22 17:57	0°♂		desc. node	9448 Oct 09 10:45	19°Π07'03	
desc. node	9447 Oct 23 13:36	1°♂12'44		evening max el	9448 Oct 16 02:57	26°Π38'13	25°28'38
evening max el	9447 Nov 04 08:29	15°♂32'44	26°41'09		9448 Oct 20 03:47	0°♂	
retrograde	9447 Nov 18 06:41	22°♂40'45		retrograde	9448 Oct 30 00:36	3°♂38'53	
evening set	9447 Nov 25 00:59	20°♂45'55		evening set	9448 Nov 05 00:14	2°♂16'23	
min. Earth dist.	9447 Nov 28 22:27	18°♂09'43	0.59643 AU		9448 Nov 09 01:55	30°♂	
inferior conj	9447 Dec 02 03:01	15°♂38'30	-4°15'38	min. Earth dist.	9448 Nov 09 15:12	29°Π38'10	0.57608 AU
minimum elong	9447 Dec 02 10:38	15°♂23'26	4°13'11	inferior conj	9448 Nov 12 14:22	27°Π36'02	-5°13'31
morning rise	9447 Dec 09 22:50	10°♂59'45		minimum elong	9448 Nov 12 20:46	27°Π25'00	5°12'11
direct	9447 Dec 12 02:55	10°♂42'34		morning rise	9448 Nov 20 19:37	23°Π19'42	
asc. node	9447 Dec 16 08:34	11°♂51'39		direct	9448 Nov 23 03:37	23°Π03'10	
morning max el	9447 Dec 19 19:40	14°♂30'25	18°12'56	morning max el	9448 Dec 01 23:20	27°Π17'54	18°55'41
	9447 Dec 30 10:06	0°♂		asc. node	9448 Dec 02 05:34	27°Π33'06	
morning set	9448 Jan 04 13:08	9°♂30'45			9448 Dec 04 10:54	0°♂	
				morning set	9448 Dec 18 11:23	23°♂48'44	
superior conj	9448 Jan 14 00:34	27°♂09'27	0°40'56		9448 Dec 21 14:43	0°♂	
minimum elong	9448 Jan 14 03:23	27°♂22'11	0°40'49				
	9448 Jan 15 14:33	0°≈		superior conj	9448 Dec 26 21:55	10°♂17'48	1°07'56
desc. node	9448 Jan 19 12:42	6°≈53'00		minimum elong	9448 Dec 27 01:08	10°♂33'07	1°07'51
max. Earth dist.	9448 Jan 21 15:25	10°≈29'37	1.41298 AU	max. Earth dist.	9449 Jan 02 21:48	23°♂12'04	1.39142 AU
evening rise	9448 Jan 26 11:48	18°≈32'14		desc. node	9449 Jan 05 09:39	27°♂34'54	
	9448 Feb 02 17:58	0°♂		evening rise	9449 Jan 06 19:02	29°♂58'34	
	9448 Feb 24 04:52	0°♀			9449 Jan 06 19:22	0°≈	
evening max el	9448 Feb 29 10:01	5°♀48'30	23°06'03		9449 Jan 26 02:58	0°♂	
retrograde	9448 Mar 10 18:07	11°♀55'37		evening max el	9449 Feb 10 23:53	19°♂36'06	24°25'52
asc. node	9448 Mar 13 07:16	11°♀23'48		retrograde	9449 Feb 22 10:10	26°♂17'23	
evening set	9448 Mar 15 16:37	9°♀52'30		evening set	9449 Feb 27 20:51	24°♂01'06	
min. Earth dist.	9448 Mar 20 15:49	4°♀01'04	0.68505 AU	asc. node	9449 Feb 28 04:27	23°♂44'30	
inferior conj	9448 Mar 21 01:45	3°♀26'44	2°16'58	min. Earth dist.	9449 Mar 04 11:48	18°♂44'26	0.68131 AU
minimum elong	9448 Mar 20 23:32	3°♀34'25	2°16'19	inferior conj	9449 Mar 05 09:24	17°♂32'01	1°37'18
	9448 Mar 23 16:09	30°♂♂		minimum elong	9449 Mar 05 07:26	17°♂38'38	1°36'41
morning rise	9448 Mar 26 06:22	27°♂19'36		morning rise	9449 Mar 10 18:07	11°♂31'45	
direct	9448 Mar 30 15:40	25°♂33'07		direct	9449 Mar 14 14:29	10°♂07'04	
	9448 Apr 07 17:22	0°♀		morning max el	9449 Mar 22 04:26	14°♂22'39	20°01'21
morning max el	9448 Apr 08 06:03	0°♀31'04	21°14'36	desc. node	9449 Apr 03 09:48	0°♀03'10	
desc. node	9448 Apr 16 12:56	10°♀24'43			9449 Apr 03 08:55	0°♀	
	9448 Apr 30 04:59	0°♂		morning set	9449 Apr 18 08:26	22°♀30'08	
morning set	9448 May 09 08:56	14°♂05'59			9449 Apr 23 04:23	0°♂	
max. Earth dist.	9448 May 16 11:06	25°♂28'45	1.42485 AU	max. Earth dist.	9449 Apr 28 20:57	8°♂58'56	1.44175 AU
	9448 May 19 04:49	0°Π					
superior conj	9448 May 23 18:31	7°Π43'14	-1°59'07	superior conj	9449 May 04 09:10	17°♂52'01	-2°12'01
minimum elong	9448 May 24 00:12	8°Π07'38	1°58'59	minimum elong	9449 May 04 10:47	17°♂58'39	2°12'14
evening rise	9448 Jun 04 04:49	27°Π56'05			9449 May 11 16:43	0°Π	
	9448 Jun 05 08:16	0°♂		evening rise	9449 May 17 11:58	9°Π52'57	
asc. node	9448 Jun 09 05:55	6°♂58'49		asc. node	9449 May 27 02:58	26°Π08'00	
evening max el	9448 Jun 20 15:20	23°♂48'20	18°06'42		9449 May 29 14:56	0°♂	
				evening max el	9449 Jun 04 04:49	7°♂04'29	18°07'48

retrograde	9449 Jun 10 14:09	10°☿24'54		asc. node	9450 May 14 00:04	14°♊48'33	
evening set	9449 Jun 13 09:23	9°☿44'44		evening max el	9450 May 18 17:43	20°♊34'28	18°27'16
inferior conj	9449 Jun 19 14:12	4°☿31'20	2°43'13	retrograde	9450 May 25 04:28	24°♊03'27	
minimum elong	9449 Jun 19 16:46	4°☿24'27	2°42'21	evening set	9450 May 28 07:16	23°♊09'16	
min. Earth dist.	9449 Jun 22 09:36	1°☿32'27	0.62706 AU	inferior conj	9450 Jun 03 01:48	17°♊38'27	3°10'21
	9449 Jun 23 23:32	30°♋♊		minimum elong	9450 Jun 03 03:17	17°♊34'02	3°09'52
morning rise	9449 Jun 25 22:24	28°♊22'13		min. Earth dist.	9450 Jun 05 06:40	15°♊02'25	0.64703 AU
desc. node	9449 Jun 30 09:31	26°♊08'52		morning rise	9450 Jun 08 22:22	11°♊21'11	
direct	9449 Jul 02 16:12	25°♊52'11		direct	9450 Jun 15 13:31	8°♊38'11	
	9449 Jul 12 08:32	0°☿		desc. node	9450 Jun 17 06:34	8°♊47'53	
morning max el	9449 Jul 16 17:24	3°☿54'42	27°53'09	morning max el	9450 Jun 29 03:27	16°♊35'47	27°20'38
	9449 Aug 05 04:52	0°♊			9450 Jul 10 05:35	0°☿	
morning set	9449 Aug 19 22:25	26°♊49'01			9450 Jul 29 00:34	0°♊	
	9449 Aug 21 11:47	0°♎		morning set	9450 Aug 03 12:22	10°♊20'55	
asc. node	9449 Aug 23 02:32	3°♎21'53		max. Earth dist.	9450 Aug 08 02:52	19°♊35'37	1.33307 AU
max. Earth dist.	9449 Aug 25 05:51	7°♎54'34	1.32235 AU	asc. node	9450 Aug 09 23:26	23°♊27'16	
superior conj	9449 Aug 27 13:51	12°♎57'32	0°43'41	superior conj	9450 Aug 11 17:56	27°♊11'32	0°17'39
minimum elong	9449 Aug 27 12:00	12°♎47'30	0°43'13	minimum elong	9450 Aug 11 17:03	27°♊06'54	0°17'16
evening rise	9449 Sep 03 10:19	27°♎53'40			9450 Aug 13 01:31	0°♎	
	9449 Sep 04 10:02	0°♏		evening rise	9450 Aug 18 21:27	12°♎29'21	
	9449 Sep 21 11:47	0°♌			9450 Aug 27 18:31	0°♏	
desc. node	9449 Sep 26 07:55	5°♌43'51		evening max el	9450 Sep 09 03:12	17°♏11'20	22°14'35
evening max el	9449 Sep 27 14:56	7°♌01'39	23°54'21	desc. node	9450 Sep 13 05:06	20°♏35'05	
retrograde	9449 Oct 11 05:57	13°♌50'29		retrograde	9450 Sep 21 23:24	23°♏35'11	
evening set	9449 Oct 15 22:48	13°♌02'09		evening set	9450 Sep 25 04:31	23°♏12'18	
min. Earth dist.	9449 Oct 22 01:24	10°♌03'37	0.55910 AU	min. Earth dist.	9450 Oct 03 08:58	19°♏36'47	0.54857 AU
inferior conj	9449 Oct 24 05:18	8°♌45'11	-5°40'34	inferior conj	9450 Oct 04 03:23	19°♏10'54	-5°17'17
minimum elong	9449 Oct 24 05:56	8°♌44'13	5°40'21	minimum elong	9450 Oct 03 20:18	19°♏20'52	5°16'07
morning rise	9449 Nov 01 15:05	4°♌48'45		morning rise	9450 Oct 12 13:44	15°♏23'39	
direct	9449 Nov 04 09:05	4°♌29'30		direct	9450 Oct 15 22:12	14°♏58'35	
morning max el	9449 Nov 14 15:11	9°♌20'04	20°01'02	morning max el	9450 Oct 27 17:41	20°♏32'10	21°28'15
asc. node	9449 Nov 19 02:33	14°♌26'51			9450 Nov 04 11:54	0°♌	
	9449 Nov 28 10:59	0°♏		asc. node	9450 Nov 05 23:30	2°♌17'15	
morning set	9449 Dec 02 16:25	8°♏24'23		morning set	9450 Nov 17 01:37	23°♌09'46	
					9450 Nov 20 07:35	0°♏	
superior conj	9449 Dec 10 09:31	24°♏06'22	1°26'24	superior conj	9450 Nov 24 07:16	8°♏23'04	1°37'01
minimum elong	9449 Dec 10 12:00	24°♏18'50	1°26'29	minimum elong	9450 Nov 24 08:34	8°♏29'52	1°37'15
	9449 Dec 13 09:11	0°♐		max. Earth dist.	9450 Nov 28 15:36	17°♏15'55	1.35048 AU
max. Earth dist.	9449 Dec 16 04:24	5°♐21'53	1.36985 AU	evening rise	9450 Dec 02 19:44	25°♏23'36	
evening rise	9449 Dec 19 22:49	12°♐18'47			9450 Dec 05 06:59	0°♐	
desc. node	9449 Dec 23 06:36	18°♐11'18		desc. node	9450 Dec 10 03:35	8°♐37'22	
	9449 Dec 30 09:27	0°♑			9450 Dec 23 21:04	0°♑	
	9450 Jan 21 06:30	0°♏		evening max el	9451 Jan 07 02:31	17°♑09'30	26°39'12
evening max el	9450 Jan 24 13:13	3°♏25'24	25°39'21	retrograde	9451 Jan 20 03:36	24°♑27'56	
retrograde	9450 Feb 05 21:34	10°♏30'34		evening set	9451 Jan 26 14:26	21°♑53'59	
evening set	9450 Feb 11 20:44	8°♏03'27		min. Earth dist.	9451 Jan 30 16:14	17°♑46'47	0.66209 AU
asc. node	9450 Feb 15 01:35	4°♏45'04		inferior conj	9451 Feb 01 13:15	15°♑33'23	-0°07'51
min. Earth dist.	9450 Feb 16 04:42	3°♏21'40	0.67360 AU	minimum elong	9451 Feb 01 13:28	15°♑32'46	0°07'30
inferior conj	9450 Feb 17 13:56	1°♏35'53	0°48'56	transit middle	9451 Feb 01 13:28	15°♑32'46	0°07'30
minimum elong	9450 Feb 17 12:45	1°♏39'39	0°48'39	transit begin	9451 Feb 01 10:53	15°♑40'27	
	9450 Feb 18 20:29	30°♋♑		transit end	9451 Feb 01 16:03	15°♑25'06	
morning rise	9450 Feb 23 05:14	25°♑44'18		asc. node	9451 Feb 01 22:43	15°♑05'21	
direct	9450 Feb 26 13:47	24°♑39'41		morning rise	9451 Feb 07 13:30	9°♑52'39	
morning max el	9450 Mar 05 10:44	28°♑25'15	19°02'56	direct	9451 Feb 10 11:42	9°♑05'04	
	9450 Mar 06 22:48	0°♏		morning max el	9451 Feb 16 23:28	12°♑33'11	18°20'40
greatest brilliancy	9450 Mar 18 23:52	16°♏36'55	-0.8m		9451 Mar 01 14:31	0°♏	
desc. node	9450 Mar 21 06:38	20°♏05'30		desc. node	9451 Mar 08 03:27	10°♏24'39	
	9450 Mar 27 16:48	0°♑		morning set	9451 Mar 08 16:06	11°♏15'12	
morning set	9450 Mar 28 12:13	1°♑15'14			9451 Mar 20 11:54	0°♑	
max. Earth dist.	9450 Apr 11 13:12	23°♑08'32	1.45248 AU	superior conj	9451 Mar 24 06:50	5°♑56'35	-1°41'26
superior conj	9450 Apr 14 01:23	27°♑05'26	-2°06'46	minimum elong	9451 Mar 23 21:16	5°♑19'04	1°40'32
minimum elong	9450 Apr 13 19:48	26°♑43'26	2°06'39	max. Earth dist.	9451 Mar 25 08:27	7°♑36'48	1.45595 AU
	9450 Apr 15 21:32	0°♏			9451 Apr 08 15:48	0°♏	
evening rise	9450 Apr 28 20:41	20°♏52'23		evening rise	9451 Apr 09 05:50	0°♏55'03	
	9450 May 04 10:41	0°♊					

greatest brilliancy	9451 Apr 19 17:06	17°♄16'23	-0.8m	superior conj	9452 Mar 02 20:33	15°♄17'16	-1°01'50
	9451 Apr 28 12:42	0°♄		minimum elong	9452 Mar 02 13:36	14°♄49'32	1°00'49
asc. node	9451 Apr 30 21:11	2°♄50'34		max. Earth dist.	9452 Mar 07 03:49	22°♄06'39	1.45199 AU
evening max el	9451 May 02 03:27	4°♄11'16	19°04'21		9452 Mar 12 04:51	0°♄	
retrograde	9451 May 09 00:14	8°♄01'40		evening rise	9452 Mar 18 21:28	10°♄20'30	
evening set	9451 May 12 10:54	6°♄52'41			9452 Mar 31 20:48	0°♄	
inferior conj	9451 May 17 22:45	1°♄06'10	3°20'16	greatest brilliancy	9452 Apr 02 13:58	2°♄31'25	-0.6m
minimum elong	9451 May 17 22:59	1°♄05'26	3°19'59	evening max el	9452 Apr 14 08:19	17°♄51'05	19°57'30
	9451 May 18 19:22	30°♄		asc. node	9452 Apr 16 18:20	20°♄02'08	
min. Earth dist.	9451 May 19 12:25	29°♄05'47	0.66323 AU	retrograde	9452 Apr 21 22:31	22°♄13'21	
morning rise	9451 May 23 10:33	24°♄46'30		evening set	9452 Apr 25 17:49	20°♄49'10	
direct	9451 May 29 17:50	22°♄01'51		inferior conj	9452 May 01 02:00	14°♄48'44	3°16'24
desc. node	9451 Jun 04 03:33	23°♄39'15		minimum elong	9452 May 01 01:07	14°♄51'43	3°16'07
morning max el	9451 Jun 11 14:09	29°♄41'22	26°19'43	min. Earth dist.	9452 May 02 01:07	13°♄30'48	0.67510 AU
	9451 Jun 11 21:27	0°♄		morning rise	9452 May 06 08:06	8°♄30'15	
	9451 Jul 04 02:55	0°♄		direct	9452 May 12 04:12	5°♄54'07	
morning set	9451 Jul 17 14:14	23°♄16'38		desc. node	9452 May 21 00:31	10°♄12'16	
	9451 Jul 21 02:48	0°♄		morning max el	9452 May 23 23:50	12°♄59'41	24°59'37
max. Earth dist.	9451 Jul 21 13:28	0°♄52'05	1.34861 AU		9452 Jun 06 17:16	0°♄	
					9452 Jun 25 21:37	0°♄	
superior conj	9451 Jul 26 15:05	11°♄02'02	-0°12'06	morning set	9452 Jun 28 23:31	5°♄23'36	
minimum elong	9451 Jul 26 15:47	11°♄05'38	0°12'14	max. Earth dist.	9452 Jul 02 14:03	11°♄55'48	1.36839 AU
behind sun begin	9451 Jul 26 11:54	10°♄45'40					
behind sun end	9451 Jul 26 19:41	11°♄25'37		superior conj	9452 Jul 09 02:19	24°♄20'44	-0°44'15
asc. node	9451 Jul 27 20:23	13°♄32'54		minimum elong	9452 Jul 09 05:05	24°♄34'23	0°44'03
evening rise	9451 Aug 03 06:17	26°♄55'24			9452 Jul 11 22:42	0°♄	
	9451 Aug 04 18:06	0°♄		asc. node	9452 Jul 13 17:20	3°♄34'21	
evening max el	9451 Aug 22 00:54	27°♄44'29	20°44'59	evening rise	9452 Jul 17 10:28	11°♄04'34	
	9451 Aug 24 14:22	0°♄			9452 Jul 27 14:39	0°♄	
desc. node	9451 Aug 31 02:17	3°♄10'32		evening max el	9452 Aug 03 12:12	9°♄01'14	19°34'00
retrograde	9451 Sep 02 11:36	3°♄25'01		retrograde	9452 Aug 13 05:50	13°♄50'17	
evening set	9451 Sep 04 15:19	3°♄13'47		evening set	9452 Aug 15 02:02	13°♄40'42	
	9451 Sep 12 13:45	30°♄		desc. node	9452 Aug 16 23:28	13°♄12'08	
inferior conj	9451 Sep 13 19:45	29°♄17'21	-3°58'54	inferior conj	9452 Aug 23 20:49	9°♄36'16	-2°07'12
minimum elong	9451 Sep 13 10:06	29°♄31'08	3°56'03	minimum elong	9452 Aug 23 15:04	9°♄45'22	2°05'09
min. Earth dist.	9451 Sep 14 17:42	28°♄45'56	0.54693 AU	min. Earth dist.	9452 Aug 26 05:24	8°♄06'46	0.55488 AU
morning rise	9451 Sep 22 04:51	25°♄18'56		morning rise	9452 Sep 01 01:45	5°♄07'57	
direct	9451 Sep 26 06:11	24°♄43'41		direct	9452 Sep 05 22:34	4°♄14'56	
	9451 Oct 08 05:37	0°♄		morning max el	9452 Sep 19 21:30	11°♄14'00	24°57'02
morning max el	9451 Oct 09 09:38	1°♄02'55	23°11'14		9452 Oct 04 03:53	0°♄	
asc. node	9451 Oct 23 20:25	20°♄51'05		asc. node	9452 Oct 09 17:20	9°♄56'58	
	9451 Oct 28 16:15	0°♄		morning set	9452 Oct 16 00:42	22°♄46'26	
morning set	9451 Nov 01 12:59	7°♄59'06			9452 Oct 19 08:41	0°♄	
superior conj	9451 Nov 08 12:00	22°♄58'33	1°40'37	superior conj	9452 Oct 22 21:06	7°♄44'05	1°37'53
minimum elong	9451 Nov 08 12:04	22°♄58'51	1°40'51	minimum elong	9452 Oct 22 20:04	7°♄38'24	1°38'01
max. Earth dist.	9451 Nov 11 10:27	29°♄13'04	1.33487 AU	max. Earth dist.	9452 Oct 24 13:03	11°♄22'29	1.32374 AU
	9451 Nov 11 19:25	0°♄		evening rise	9452 Oct 30 02:26	23°♄09'53	
evening rise	9451 Nov 16 06:06	9°♄03'53			9452 Nov 02 12:20	0°♄	
desc. node	9451 Nov 27 00:40	28°♄47'47		desc. node	9452 Nov 12 21:47	18°♄34'48	
	9451 Nov 27 17:56	0°♄			9452 Nov 20 11:35	0°♄	
	9451 Dec 19 23:07	0°♄		evening max el	9452 Dec 02 02:21	13°♄43'23	27°29'52
evening max el	9451 Dec 20 15:25	0°♄39'31	27°18'15	retrograde	9452 Dec 15 21:02	21°♄01'41	
retrograde	9452 Jan 03 03:45	8°♄01'34		evening set	9452 Dec 22 22:05	18°♄35'02	
evening set	9452 Jan 09 23:48	5°♄27'02		min. Earth dist.	9452 Dec 26 15:18	15°♄30'09	0.62886 AU
min. Earth dist.	9452 Jan 13 20:23	1°♄52'54	0.64703 AU	inferior conj	9452 Dec 29 10:29	12°♄47'00	-2°22'52
	9452 Jan 15 14:11	30°♄		minimum elong	9452 Dec 29 15:06	12°♄35'43	2°20'45
inferior conj	9452 Jan 16 05:02	29°♄19'29	-1°12'20	morning rise	9453 Jan 05 10:18	7°♄35'47	
minimum elong	9452 Jan 16 07:15	29°♄13'30	1°11'07	asc. node	9453 Jan 05 16:54	7°♄30'17	
asc. node	9452 Jan 19 19:49	25°♄43'49		direct	9453 Jan 07 17:43	7°♄10'55	
morning rise	9452 Jan 22 16:19	23°♄52'05		morning max el	9453 Jan 14 09:32	10°♄35'55	17°47'23
direct	9452 Jan 25 05:58	23°♄17'48			9453 Jan 27 10:06	0°♄	
morning max el	9452 Jan 31 16:05	26°♄39'34	17°55'16	morning set	9453 Jan 30 11:26	5°♄20'33	
	9452 Feb 03 14:24	0°♄		desc. node	9453 Feb 08 21:12	21°♄35'11	
morning set	9452 Feb 18 01:21	22°♄42'02					
	9452 Feb 22 10:45	0°♄		superior conj	9453 Feb 11 08:19	25°♄42'52	-0°18'13
desc. node	9452 Feb 23 00:18	0°♄55'56		minimum elong	9453 Feb 11 06:28	25°♄35'10	0°17'44

	9453 Feb 13 22:35	0° H			9454 Jan 19 18:20	0° \approx	
max. Earth dist.	9453 Feb 17 21:09	6° H 23'22	1.44108 AU				
evening rise	9453 Feb 26 09:19	19° H 45'39		superior conj	9454 Jan 23 21:19	7° \approx 20'05	0°21'30
	9453 Mar 05 02:46	0° Y		minimum elong	9454 Jan 23 23:05	7° \approx 27'52	0°21'30
	9453 Mar 26 20:40	0° B		desc. node	9454 Jan 26 18:06	12° \approx 18'14	
evening max el	9453 Mar 28 07:43	1° B 32'53	21°04'04	max. Earth dist.	9454 Jan 31 10:43	20° \approx 12'24	1.42444 AU
asc. node	9453 Apr 03 15:28	6° B 09'25		evening rise	9454 Feb 06 08:08	29° \approx 45'02	
retrograde	9453 Apr 05 21:02	6° B 34'19			9454 Feb 06 11:54	0° H	
evening set	9453 Apr 10 02:05	4° B 54'41			9454 Feb 26 16:50	0° Y	
	9453 Apr 14 10:32	30° R Y		evening max el	9454 Mar 11 02:07	15° Y 16'07	22°20'06
inferior conj	9453 Apr 15 09:05	28° Y 42'22	3°01'06	retrograde	9454 Mar 20 18:04	20° Y 59'21	
minimum elong	9453 Apr 15 07:23	28° Y 48'16	3°00'40	asc. node	9454 Mar 21 12:38	20° Y 56'23	
min. Earth dist.	9453 Apr 15 18:40	28° Y 09'09	0.68247 AU	evening set	9454 Mar 25 09:59	19° Y 04'30	
morning rise	9453 Apr 20 12:27	22° Y 27'20		inferior conj	9454 Mar 30 17:52	12° Y 42'50	2°35'46
direct	9453 Apr 25 19:28	20° Y 07'19		minimum elong	9454 Mar 30 15:42	12° Y 50'20	2°35'10
morning max el	9453 May 06 09:12	26° Y 25'24	23°30'36	min. Earth dist.	9454 Mar 30 14:49	12° Y 53'25	0.68539 AU
desc. node	9453 May 07 21:27	28° Y 00'16		morning rise	9454 Apr 04 21:17	6° Y 32'39	
	9453 May 09 16:18	0° B		direct	9454 Apr 09 14:30	4° Y 33'25	
	9453 May 31 06:50	0° II		morning max el	9454 Apr 18 21:13	9° Y 59'06	22°02'10
morning set	9453 Jun 10 11:00	16° II 28'19		desc. node	9454 Apr 24 18:21	16° Y 42'02	
max. Earth dist.	9453 Jun 14 10:18	23° II 17'56	1.39081 AU		9454 May 04 13:28	0° B	
	9453 Jun 18 04:43	0° E		morning set	9454 May 21 19:57	26° B 19'00	
					9454 May 24 02:28	0° II	
superior conj	9453 Jun 21 23:55	6° E 59'02	-1°16'39	max. Earth dist.	9454 May 27 09:39	5° II 27'15	1.41321 AU
minimum elong	9453 Jun 22 04:51	7° E 22'05	1°16'13				
asc. node	9453 Jun 30 14:21	23° E 27'54		superior conj	9454 Jun 04 03:19	18° II 45'30	-1°45'46
evening rise	9453 Jul 01 07:13	24° E 49'45		minimum elong	9454 Jun 04 09:28	19° II 12'40	1°45'26
	9453 Jul 03 23:37	0° O			9454 Jun 10 08:50	0° E	
evening max el	9453 Jul 17 11:41	21° O 02'54	18°43'58	evening rise	9454 Jun 14 16:52	8° E 01'10	
retrograde	9453 Jul 25 16:39	25° O 07'58		asc. node	9454 Jun 17 11:21	13° E 08'27	
evening set	9453 Jul 27 16:34	24° O 54'21			9454 Jun 27 15:45	0° O	
desc. node	9453 Aug 03 20:37	21° O 09'07		evening max el	9454 Jun 30 19:30	3° O 40'41	18°14'32
inferior conj	9453 Aug 04 16:57	20° O 31'57	-0°15'33	retrograde	9454 Jul 07 22:45	7° O 16'33	
minimum elong	9453 Aug 04 16:19	20° O 33'07	0°15'32	evening set	9454 Jul 10 05:51	6° O 54'54	
transit middle	9453 Aug 04 16:19	20° O 33'07	0°15'32	inferior conj	9454 Jul 17 10:49	2° O 11'43	1°14'43
transit begin	9453 Aug 04 15:21	20° O 34'55		minimum elong	9454 Jul 17 13:07	2° O 06'46	1°13'39
transit end	9453 Aug 04 17:17	20° O 31'19			9454 Jul 19 23:43	30° R E	
min. Earth dist.	9453 Aug 07 21:24	18° O 11'56	0.57086 AU	min. Earth dist.	9454 Jul 20 19:41	29° E 18'27	0.59178 AU
morning rise	9453 Aug 12 12:40	15° O 26'36		desc. node	9454 Jul 21 17:46	28° E 34'28	
direct	9453 Aug 18 04:56	14° O 07'43		morning rise	9454 Jul 24 17:12	26° E 33'23	
morning max el	9453 Sep 01 12:11	21° O 35'56	26°28'35	direct	9454 Jul 31 00:41	24° E 44'18	
	9453 Sep 08 20:53	0° M			9454 Aug 11 14:34	0° O	
asc. node	9453 Sep 26 14:15	29° M 26'41		morning max el	9454 Aug 14 09:35	2° O 32'45	27°31'04
	9453 Sep 26 20:53	0° E			9454 Sep 03 08:07	0° M	
morning set	9453 Sep 30 11:09	7° E 27'25		asc. node	9454 Sep 13 11:10	19° M 13'17	
				morning set	9454 Sep 14 18:38	21° M 57'14	
					9454 Sep 18 12:30	0° E	
superior conj	9453 Oct 07 08:27	22° E 33'14	1°29'24				
minimum elong	9453 Oct 07 06:38	22° E 23'07	1°29'20				
max. Earth dist.	9453 Oct 07 21:04	23° E 43'14	1.31730 AU	superior conj	9454 Sep 21 20:11	7° E 20'12	1°15'34
	9453 Oct 10 17:24	0° M		minimum elong	9454 Sep 21 17:58	7° E 07'53	1°15'17
evening rise	9453 Oct 14 05:53	7° M 33'58		max. Earth dist.	9454 Sep 21 07:03	6° E 07'16	1.31547 AU
	9453 Oct 25 23:15	0° A		evening rise	9454 Sep 28 14:03	22° E 09'12	
desc. node	9453 Oct 30 18:55	7° A 49'01			9454 Oct 02 08:31	0° M	
evening max el	9453 Nov 14 08:51	26° A 08'09	27°08'49	desc. node	9454 Oct 17 16:03	26° M 17'43	
	9453 Nov 19 02:16	0° Z			9454 Oct 20 10:21	0° A	
retrograde	9453 Nov 28 06:12	3° Z 19'11		evening max el	9454 Oct 27 08:05	7° A 43'25	26°13'50
evening set	9453 Dec 05 05:41	1° Z 10'07		retrograde	9454 Nov 10 06:01	14° A 47'46	
	9453 Dec 06 23:42	30° R A		evening set	9454 Nov 16 18:09	13° A 05'47	
min. Earth dist.	9453 Dec 08 23:31	28° A 26'56	0.60854 AU	min. Earth dist.	9454 Nov 20 21:07	10° A 31'15	0.58756 AU
inferior conj	9453 Dec 12 02:16	25° A 47'10	-3°35'38	inferior conj	9454 Nov 24 00:54	8° A 10'31	-4°42'42
minimum elong	9453 Dec 12 09:09	25° A 32'23	3°33'02	minimum elong	9454 Nov 24 08:29	7° A 56'23	4°40'36
morning rise	9453 Dec 19 15:05	20° A 55'28		morning rise	9454 Dec 02 01:14	3° A 41'16	
direct	9453 Dec 21 19:21	20° A 36'20		direct	9454 Dec 04 06:28	3° A 24'38	
asc. node	9453 Dec 23 13:58	20° A 49'32		asc. node	9454 Dec 10 11:00	5° A 42'49	
morning max el	9453 Dec 29 00:28	24° A 13'15	17°57'57	morning max el	9454 Dec 12 09:22	7° A 22'25	18°28'30
	9454 Jan 02 16:50	0° Z			9454 Dec 26 20:11	0° Z	
morning set	9454 Jan 13 15:40	18° Z 50'02		morning set	9454 Dec 28 08:35	2° Z 54'24	

superior conj	9455 Jan 06 08:22	20° Z 00'05	0°53'27	superior conj	9455 Dec 20 12:21	3° Z 27'24	1°16'46
minimum elong	9455 Jan 06 11:32	20° Z 14'45	0°53'19	minimum elong	9455 Dec 20 15:21	3° Z 42'00	1°16'45
	9455 Jan 11 21:19	0° \approx		max. Earth dist.	9455 Dec 27 01:18	15° Z 47'46	1.38204 AU
desc. node	9455 Jan 13 15:01	3° \approx 01'55		evening rise	9455 Dec 30 19:02	22° Z 28'13	
max. Earth dist.	9455 Jan 13 19:38	3° \approx 21'49	1.40396 AU	desc. node	9455 Dec 31 11:58	23° Z 41'58	
evening rise	9455 Jan 18 02:47	10° \approx 38'24			9456 Jan 04 04:57	0° \approx	
	9455 Jan 30 10:16	0° H			9456 Jan 24 07:20	0° H	
evening max el	9455 Feb 21 16:58	29° H 01'50	23°40'14	evening max el	9456 Feb 04 06:12	12° H 49'38	24°58'15
	9455 Feb 22 16:54	0° Y		retrograde	9456 Feb 16 02:36	19° H 43'10	
retrograde	9455 Mar 04 12:17	5° Y 24'17		evening set	9456 Feb 21 18:38	17° H 21'39	
asc. node	9455 Mar 08 09:47	4° Y 11'29		asc. node	9456 Feb 23 06:56	15° H 54'56	
evening set	9455 Mar 09 16:02	3° Y 15'05		min. Earth dist.	9456 Feb 26 06:23	12° H 19'53	0.67849 AU
	9455 Mar 12 16:44	30° R H		inferior conj	9456 Feb 27 09:00	10° H 52'19	1°17'49
min. Earth dist.	9455 Mar 14 11:27	27° H 38'43	0.68401 AU	minimum elong	9456 Feb 27 07:18	10° H 57'56	1°17'19
inferior conj	9455 Mar 15 02:27	26° H 47'25	2°01'13	morning rise	9456 Mar 03 20:14	4° H 55'37	
minimum elong	9455 Mar 15 00:17	26° H 54'51	2°00'33	direct	9456 Mar 07 11:18	3° H 39'59	
morning rise	9455 Mar 20 08:32	20° H 43'17		morning max el	9456 Mar 14 17:16	7° H 41'32	19°34'36
direct	9455 Mar 24 12:12	19° H 06'18		greatest brilliancy	9456 Mar 27 09:45	24° H 15'09	-0.7m
morning max el	9455 Apr 01 15:22	23° H 44'34	20°41'52	desc. node	9456 Mar 28 12:04	25° H 52'22	
	9455 Apr 07 02:11	0° Y			9456 Mar 31 06:17	0° Y	
desc. node	9455 Apr 11 15:13	6° Y 03'03		morning set	9456 Apr 09 02:15	13° Y 28'17	
	9455 Apr 27 21:18	0° B			9456 Apr 19 17:06	0° B	
morning set	9455 May 01 04:02	5° B 03'59		max. Earth dist.	9456 Apr 21 04:07	2° B 18'12	1.44709 AU
max. Earth dist.	9455 May 09 15:41	18° B 30'42	1.43274 AU				
				superior conj	9456 Apr 25 12:31	9° B 13'56	-2°12'17
superior conj	9455 May 16 08:08	29° B 30'58	-2°06'26	minimum elong	9456 Apr 25 11:12	9° B 08'40	2°12'28
minimum elong	9455 May 16 12:39	29° B 49'56	2°06'31		9456 May 08 04:04	0° II	
	9455 May 16 15:03	0° II		evening rise	9456 May 09 09:13	2° II 02'17	
evening rise	9455 May 28 11:08	20° II 28'51		asc. node	9456 May 21 05:27	21° II 29'34	
	9455 Jun 02 21:09	0° E			9456 May 27 18:00	0° E	
asc. node	9455 Jun 04 08:23	2° E 31'07		evening max el	9456 May 27 21:27	0° E 08'39	18°13'52
evening max el	9455 Jun 14 07:53	16° E 45'25	18°04'46	retrograde	9456 Jun 03 06:27	3° E 31'22	
retrograde	9455 Jun 20 20:53	20° E 07'33		evening set	9456 Jun 06 04:47	2° E 45'33	
evening set	9455 Jun 23 11:37	19° E 34'53			9456 Jun 09 18:35	30° R II	
inferior conj	9455 Jun 30 00:07	14° E 32'00	2°18'02	inferior conj	9456 Jun 12 04:46	27° II 24'42	2°57'03
minimum elong	9455 Jun 30 03:01	14° E 24'46	2°16'57	minimum elong	9456 Jun 12 06:56	27° II 18'38	2°56'22
min. Earth dist.	9455 Jul 03 02:20	11° E 28'27	0.61437 AU	min. Earth dist.	9456 Jun 14 18:19	24° II 33'11	0.63590 AU
morning rise	9455 Jul 06 16:03	8° E 30'47		morning rise	9456 Jun 18 07:40	21° II 10'59	
desc. node	9455 Jul 08 14:51	7° E 22'02		desc. node	9456 Jun 24 11:54	18° II 34'46	
direct	9455 Jul 13 08:04	6° E 13'28		direct	9456 Jun 25 01:03	18° II 33'47	
morning max el	9455 Jul 27 13:46	14° E 14'13	27°56'08	morning max el	9456 Jul 08 22:25	26° II 36'38	27°43'17
	9455 Aug 09 06:37	0° Q			9456 Jul 12 02:17	0° E	
	9455 Aug 26 19:42	0° P			9456 Aug 01 21:36	0° Q	
morning set	9455 Aug 29 21:12	6° P 10'03		morning set	9456 Aug 12 16:36	19° Q 59'40	
asc. node	9455 Aug 31 08:02	9° P 10'52		asc. node	9456 Aug 17 04:56	29° Q 14'59	
max. Earth dist.	9455 Sep 04 14:56	18° P 22'12	1.31841 AU	max. Earth dist.	9456 Aug 17 16:48	0° P 17'31	1.32625 AU
					9456 Aug 17 13:29	0° P	
superior conj	9455 Sep 06 06:28	21° P 59'01	0°56'43				
minimum elong	9455 Sep 06 04:20	21° P 47'16	0°56'15	superior conj	9456 Aug 20 13:27	6° P 24'20	0°33'10
	9455 Sep 09 21:42	0° A		minimum elong	9456 Aug 20 11:57	6° P 16'13	0°32'42
evening rise	9455 Sep 13 00:50	6° A 49'00		evening rise	9456 Aug 27 12:24	21° P 28'04	
	9455 Sep 25 00:43	0° M			9456 Aug 31 14:52	0° A	
desc. node	9455 Oct 04 13:13	13° M 42'17		evening max el	9456 Sep 19 09:58	28° A 41'07	23°11'35
evening max el	9455 Oct 08 23:03	18° M 27'51	24°50'18	desc. node	9456 Sep 20 10:23	29° A 38'19	
retrograde	9455 Oct 22 18:53	25° M 25'11			9456 Sep 20 20:08	0° M	
evening set	9455 Oct 28 06:55	24° M 17'13		retrograde	9456 Oct 02 19:20	5° M 22'03	
min. Earth dist.	9455 Nov 02 10:25	21° M 32'48	0.56821 AU	evening set	9456 Oct 06 20:26	4° M 46'21	
inferior conj	9455 Nov 05 03:29	19° M 47'26	-5°30'02	min. Earth dist.	9456 Oct 13 19:21	1° M 33'38	0.55363 AU
minimum elong	9455 Nov 05 08:00	19° M 40'05	5°29'18	inferior conj	9456 Oct 15 10:26	0° M 36'45	-5°37'43
morning rise	9455 Nov 13 11:22	15° M 40'43		minimum elong	9456 Oct 15 07:38	0° M 40'50	5°37'24
direct	9455 Nov 15 22:52	15° M 23'32			9456 Oct 16 11:47	30° R A	
morning max el	9455 Nov 25 08:27	19° M 52'04	19°20'47	morning rise	9456 Oct 23 20:45	26° A 45'59	
asc. node	9455 Nov 27 08:00	21° M 57'01		direct	9456 Oct 26 20:16	26° A 24'48	
	9455 Dec 03 02:12	0° X			9456 Nov 04 23:29	0° M	
morning set	9455 Dec 12 10:03	17° X 20'49		morning max el	9456 Nov 06 18:44	1° M 33'32	20°35'38
	9455 Dec 18 18:03	0° Z		asc. node	9456 Nov 13 04:57	9° M 16'37	
					9456 Nov 24 17:30	0° X	

morning set	9456 Nov 25 17:07	2°♄01'00		asc. node	9457 Oct 31 01:53	27°♂26'48	
					9457 Nov 01 13:31	0°♄	
superior conj	9456 Dec 03 04:43	17°♄29'06	1°31'48	morning set	9457 Nov 10 03:29	16°♄48'30	
minimum elong	9456 Dec 03 06:45	17°♄39'22	1°31'58		9457 Nov 16 08:11	0°♄	
max. Earth dist.	9456 Dec 08 08:50	27°♄45'58	1.36122 AU				
	9456 Dec 09 12:46	0°♄		superior conj	9457 Nov 17 05:48	1°♄54'31	1°39'20
evening rise	9456 Dec 12 06:35	5°♄08'34		minimum elong	9457 Nov 17 06:34	1°♄58'34	1°39'36
desc. node	9456 Dec 17 08:58	14°♄14'26		max. Earth dist.	9457 Nov 20 23:12	9°♄39'39	1.34337 AU
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evening max el	9457 Jan 16 19:28	26°♄37'15	26°06'57		9457 Dec 01 14:46	0°♄	
	9457 Jan 20 15:47	0°♄		desc. node	9457 Dec 04 06:01	4°♄34'40	
retrograde	9457 Jan 29 11:59	3°♄49'58			9457 Dec 21 06:28	0°♄	
evening set	9457 Feb 04 16:07	1°♄19'26		evening max el	9457 Dec 30 08:59	10°♄17'35	26°58'54
	9457 Feb 06 02:48	30°♄		retrograde	9458 Jan 12 15:33	17°♄38'06	
min. Earth dist.	9457 Feb 08 21:22	26°♄52'12	0.66910 AU	evening set	9458 Jan 19 06:35	15°♄03'24	
asc. node	9457 Feb 09 04:05	26°♄31'37		min. Earth dist.	9458 Jan 23 06:11	11°♄10'16	0.65606 AU
inferior conj	9457 Feb 10 11:35	24°♄53'51	0°25'50	inferior conj	9458 Jan 25 08:03	8°♄47'37	-0°34'18
minimum elong	9457 Feb 10 10:55	24°♄55'55	0°25'47	minimum elong	9458 Jan 25 09:02	8°♄44'48	0°33'36
morning rise	9457 Feb 16 06:23	19°♄06'23		asc. node	9458 Jan 27 01:12	6°♄52'42	
direct	9457 Feb 19 10:16	18°♄09'30		morning rise	9458 Jan 31 12:43	3°♄11'55	
morning max el	9457 Feb 26 02:30	21°♄46'36	18°42'51	direct	9458 Feb 03 07:06	2°♄30'21	
	9457 Mar 04 18:29	0°♄		morning max el	9458 Feb 09 17:11	5°♄54'32	18°07'45
desc. node	9457 Mar 15 08:53	16°♄02'16			9458 Feb 26 06:25	0°♄	
morning set	9457 Mar 19 14:32	22°♄40'00		morning set	9458 Feb 28 07:13	3°♄18'24	
	9457 Mar 24 06:53	0°♄		desc. node	9458 Mar 02 05:44	6°♄27'17	
max. Earth dist.	9457 Apr 03 21:28	16°♄35'39	1.45481 AU				
				superior conj	9458 Mar 15 04:47	27°♄09'47	-1°25'47
superior conj	9457 Apr 04 22:05	18°♄12'06	-1°58'19	minimum elong	9458 Mar 14 19:39	26°♄33'49	1°24'44
minimum elong	9457 Apr 04 14:00	17°♄40'27	1°57'52		9458 Mar 17 00:07	0°♄	
	9457 Apr 12 09:58	0°♄		max. Earth dist.	9458 Mar 17 17:24	1°♄07'45	1.45518 AU
evening rise	9457 Apr 20 07:36	12°♄35'38		evening rise	9458 Mar 31 08:06	22°♄19'11	
greatest brilliancy	9457 Apr 27 13:34	24°♄12'54	-0.9m		9458 Apr 05 07:08	0°♄	
	9457 May 01 05:46	0°♄		greatest brilliancy	9458 Apr 12 20:07	11°♄31'47	-0.7m
asc. node	9457 May 08 02:34	9°♄55'00		evening max el	9458 Apr 24 17:16	27°♄21'18	19°25'09
evening max el	9457 May 11 09:20	13°♄42'20	18°41'03	asc. node	9458 Apr 24 23:42	27°♄37'22	
retrograde	9457 May 17 23:22	17°♄18'49			9458 Apr 27 20:15	0°♄	
evening set	9457 May 21 05:26	16°♄18'30		retrograde	9458 May 01 20:27	1°♄23'39	
inferior conj	9457 May 26 20:45	10°♄41'07	3°16'25	evening set	9458 May 05 10:46	0°♄08'06	
minimum elong	9457 May 26 21:42	10°♄38'12	3°16'02		9458 May 05 15:18	30°♄	
min. Earth dist.	9457 May 28 19:15	8°♄18'49	0.65442 AU	inferior conj	9458 May 10 20:44	24°♄15'32	3°20'09
morning rise	9457 Jun 01 13:13	4°♄22'23		minimum elong	9458 May 10 20:27	24°♄16'25	3°19'53
direct	9457 Jun 08 01:42	1°♄36'59		min. Earth dist.	9458 May 12 04:04	22°♄32'50	0.66887 AU
desc. node	9457 Jun 11 08:56	2°♄13'22		morning rise	9458 May 16 05:46	17°♄56'19	
morning max el	9457 Jun 21 08:49	9°♄28'52	26°57'38	direct	9458 May 22 08:43	15°♄14'13	
	9457 Jul 07 10:56	0°♄		desc. node	9458 May 29 05:54	17°♄51'35	
	9457 Jul 25 08:17	0°♄		morning max el	9458 Jun 03 19:00	22°♄40'19	25°47'24
morning set	9457 Jul 27 01:52	3°♄17'22			9458 Jun 10 05:42	0°♄	
max. Earth dist.	9457 Jul 31 09:17	11°♄46'17	1.33911 AU		9458 Jun 30 18:15	0°♄	
asc. node	9457 Aug 04 01:51	19°♄20'57		morning set	9458 Jul 09 21:15	15°♄53'25	
				max. Earth dist.	9458 Jul 13 15:21	22°♄54'44	1.35666 AU
superior conj	9457 Aug 04 14:56	20°♄29'24	0°05'28		9458 Jul 17 06:47	0°♄	
minimum elong	9457 Aug 04 14:39	20°♄27'56	0°05'10				
behind sun begin	9457 Aug 04 09:15	19°♄59'38		superior conj	9458 Jul 19 08:17	4°♄07'20	-0°25'32
behind sun end	9457 Aug 04 20:04	20°♄56'17		minimum elong	9458 Jul 19 09:50	4°♄15'05	0°25'30
	9457 Aug 09 02:45	0°♄		asc. node	9458 Jul 21 22:48	9°♄25'12	
evening rise	9457 Aug 11 22:48	6°♄00'13		evening rise	9458 Jul 27 05:58	20°♄19'55	
	9457 Aug 24 21:08	0°♄			9458 Aug 01 02:08	0°♄	
evening max el	9457 Sep 01 01:31	8°♄57'29	21°34'35	evening max el	9458 Aug 14 04:53	19°♄47'38	20°12'11
desc. node	9457 Sep 07 07:34	13°♄35'22		retrograde	9458 Aug 24 21:53	25°♄05'57	
retrograde	9457 Sep 13 09:00	15°♄04'04		desc. node	9458 Aug 25 04:46	25°♄05'44	
evening set	9457 Sep 16 01:09	14°♄47'49		evening set	9458 Aug 26 20:44	24°♄56'09	
inferior conj	9457 Sep 25 04:22	10°♄50'31	-4°50'05	inferior conj	9458 Sep 04 22:40	20°♄57'43	-3°13'31
minimum elong	9457 Sep 24 19:15	11°♄03'16	4°48'01	minimum elong	9458 Sep 04 14:09	21°♄10'18	3°10'40
min. Earth dist.	9457 Sep 25 03:14	10°♄52'06	0.54676 AU	min. Earth dist.	9458 Sep 06 12:41	20°♄01'31	0.54928 AU
morning rise	9457 Oct 03 14:19	7°♄00'55		morning rise	9458 Sep 13 06:36	16°♄48'46	
direct	9457 Oct 07 05:54	6°♄31'58		direct	9458 Sep 17 16:10	16°♄06'59	
morning max el	9457 Oct 19 16:01	12°♄25'30	22°10'39	morning max el	9458 Oct 01 05:06	22°♄43'22	23°56'53

































































































































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asc. node	9458 Oct 17 22:49	16°♄15'18		direct	9459 Aug 29 13:47	25°♄43'53	
	9458 Oct 24 20:49	0°♄			9459 Sep 09 07:31	0°♄	
morning set	9458 Oct 25 15:13	1°♄37'29		morning max el	9459 Sep 12 17:42	2°♄56'28	25°38'49
					9459 Oct 01 21:38	0°♄	
superior conj	9458 Nov 01 12:39	16°♄34'43	1°40'11	asc. node	9459 Oct 04 19:44	5°♄32'32	
minimum elong	9458 Nov 01 12:13	16°♄32'21	1°40'24	morning set	9459 Oct 10 02:38	16°♄23'21	
max. Earth dist.	9458 Nov 03 21:47	21°♄42'39	1.32961 AU		9459 Oct 16 07:58	0°♄	
	9458 Nov 07 20:47	0°♄					
evening rise	9458 Nov 09 00:42	2°♄21'46		superior conj	9459 Oct 16 22:59	1°♄22'57	1°34'58
desc. node	9458 Nov 21 03:07	24°♄36'06		minimum elong	9459 Oct 16 21:34	1°♄15'10	1°35'02
	9458 Nov 24 11:26	0°♄		max. Earth dist.	9459 Oct 18 03:13	3°♄58'32	1.32041 AU
evening max el	9458 Dec 12 21:25	23°♄38'15	27°26'56	evening rise	9459 Oct 24 00:24	16°♄36'31	
	9458 Dec 21 22:17	0°♄			9459 Oct 30 19:13	0°♄	
retrograde	9458 Dec 26 12:37	0°♄58'33		desc. node	9459 Nov 08 00:15	14°♄10'52	
	9458 Dec 30 20:38	30°♄			9459 Nov 19 07:12	0°♄	
evening set	9459 Jan 02 11:36	28°♄26'19		evening max el	9459 Nov 25 06:38	6°♄26'27	27°24'58
min. Earth dist.	9459 Jan 06 06:30	25°♄05'25	0.63966 AU	retrograde	9459 Dec 09 02:35	13°♄42'06	
inferior conj	9459 Jan 08 19:50	22°♄26'39	-1°41'39	evening set	9459 Dec 16 04:08	11°♄21'17	
minimum elong	9459 Jan 08 23:02	22°♄18'21	1°40'02	min. Earth dist.	9459 Dec 19 20:45	8°♄27'13	0.62046 AU
asc. node	9459 Jan 13 22:19	17°♄55'06		inferior conj	9459 Dec 22 19:52	5°♄43'28	-2°53'47
morning rise	9459 Jan 15 12:17	17°♄05'44		minimum elong	9459 Dec 23 01:32	5°♄30'22	2°51'22
direct	9459 Jan 17 23:06	16°♄35'47		morning rise	9459 Dec 30 01:18	0°♄40'30	
morning max el	9459 Jan 24 10:32	19°♄57'27	17°49'46	asc. node	9459 Dec 31 19:22	0°♄19'33	
	9459 Jan 31 23:40	0°♄		direct	9460 Jan 01 06:58	0°♄18'30	
morning set	9459 Feb 10 03:50	15°♄18'14		morning max el	9460 Jan 08 03:24	3°♄47'12	17°49'34
desc. node	9459 Feb 17 02:37	27°♄02'17		morning set	9460 Jan 23 22:21	28°♄20'18	
	9459 Feb 18 21:26	0°♄			9460 Jan 24 20:38	0°♄	
				desc. node	9460 Feb 03 23:32	17°♄43'33	
superior conj	9459 Feb 23 02:47	6°♄54'58	-0°43'16				
minimum elong	9459 Feb 22 22:01	6°♄35'38	0°42'26	superior conj	9460 Feb 04 01:28	17°♄51'46	-0°00'36
max. Earth dist.	9459 Feb 28 12:46	15°♄35'50	1.44817 AU	minimum elong	9460 Feb 04 01:25	17°♄51'35	0°00'21
	9459 Mar 09 18:17	0°♄		behind sun begin	9460 Feb 03 16:44	17°♄14'36	
evening rise	9459 Mar 10 20:14	1°♄39'42		behind sun end	9460 Feb 04 10:07	18°♄28'29	
	9459 Mar 29 22:46	0°♄		max. Earth dist.	9460 Feb 11 04:35	29°♄41'59	1.43461 AU
evening max el	9459 Apr 07 19:48	11°♄01'31	20°24'20		9460 Feb 11 09:02	0°♄	
asc. node	9459 Apr 11 20:52	14°♄23'12		evening rise	9460 Feb 18 11:07	11°♄15'08	
retrograde	9459 Apr 15 19:05	15°♄39'39			9460 Mar 01 21:07	0°♄	
evening set	9459 Apr 19 18:30	14°♄08'40		evening max el	9460 Mar 20 16:46	24°♄42'41	21°35'28
inferior conj	9459 Apr 25 01:52	8°♄02'43	3°11'12	asc. node	9460 Mar 28 18:00	29°♄57'42	
minimum elong	9459 Apr 25 00:36	8°♄07'04	3°10'52		9460 Mar 29 00:41	0°♄	
min. Earth dist.	9459 Apr 25 19:01	7°♄04'05	0.67880 AU	retrograde	9460 Mar 29 17:17	0°♄02'25	
morning rise	9459 Apr 30 06:29	1°♄45'36			9460 Mar 30 09:38	30°♄	
	9459 May 02 18:56	30°♄		evening set	9460 Apr 03 02:47	28°♄16'11	
direct	9459 May 05 21:05	29°♄15'54		inferior conj	9460 Apr 08 09:54	21°♄59'14	2°51'30
	9459 May 09 05:02	0°♄		minimum elong	9460 Apr 08 07:58	22°♄05'59	2°51'01
desc. node	9459 May 16 02:51	4°♄58'58		min. Earth dist.	9460 Apr 08 13:58	21°♄45'03	0.68423 AU
morning max el	9459 May 17 04:28	6°♄02'07	24°22'19	morning rise	9460 Apr 13 12:58	15°♄45'57	
	9459 Jun 04 17:43	0°♄		direct	9460 Apr 18 14:00	13°♄34'35	
morning set	9459 Jun 21 21:57	27°♄35'17		morning max el	9460 Apr 28 14:40	19°♄30'58	22°52'22
	9459 Jun 23 06:59	0°♄		desc. node	9460 May 01 23:46	23°♄11'31	
max. Earth dist.	9459 Jun 25 13:40	4°♄03'54	1.37775 AU		9460 May 07 11:09	0°♄	
					9460 May 27 21:55	0°♄	
superior conj	9459 Jul 02 14:13	17°♄09'42	-0°58'08	morning set	9460 Jun 01 22:31	8°♄08'59	
minimum elong	9459 Jul 02 17:56	17°♄27'38	0°57'47	max. Earth dist.	9460 Jun 06 10:14	15°♄42'12	1.40044 AU
asc. node	9459 Jul 08 19:48	29°♄23'46					
	9459 Jul 09 03:05	0°♄		superior conj	9460 Jun 14 04:34	29°♄26'18	-1°29'40
evening rise	9459 Jul 11 07:24	4°♄19'57		minimum elong	9460 Jun 14 10:14	29°♄52'09	1°29'15
	9459 Jul 26 14:02	0°♄			9460 Jun 14 11:57	0°♄	
evening max el	9459 Jul 27 21:39	1°♄23'41	19°10'07	evening rise	9460 Jun 23 23:53	17°♄51'28	
retrograde	9459 Aug 05 22:47	5°♄53'05		asc. node	9460 Jun 24 16:48	19°♄11'57	
evening set	9459 Aug 07 19:39	5°♄42'23			9460 Jun 30 12:42	0°♄	
desc. node	9459 Aug 12 01:55	4°♄07'33		evening max el	9460 Jul 10 01:07	13°♄41'21	18°29'02
inferior conj	9459 Aug 16 07:07	1°♄30'40	-1°18'11	retrograde	9460 Jul 17 17:57	17°♄32'19	
minimum elong	9459 Aug 16 03:41	1°♄36'28	1°17'01	evening set	9460 Jul 19 20:34	17°♄15'52	
	9459 Aug 18 12:48	30°♄		inferior conj	9460 Jul 27 12:32	12°♄44'55	0°25'57
min. Earth dist.	9459 Aug 19 01:56	29°♄38'22	0.56081 AU	minimum elong	9460 Jul 27 13:28	12°♄43'04	0°25'20

desc. node	9460 Jul 28 23:04	11°♊36'19		desc. node	9461 Jul 15 20:10	19°♊24'19	
min. Earth dist.	9460 Jul 30 20:37	10°♊07'52	0.57925 AU	morning rise	9461 Jul 16 15:18	18°♊53'07	
morning rise	9460 Aug 04 02:50	7°♊24'09		direct	9461 Jul 23 03:32	16°♊50'59	
direct	9460 Aug 10 02:11	5°♊52'28		morning max el	9461 Aug 06 11:22	24°♊45'52	27°46'24
morning max el	9460 Aug 24 11:09	13°♊31'22	26°59'26		9461 Aug 11 06:12	0°♊	
	9460 Sep 06 13:14	0°♊			9461 Aug 30 21:59	0°♊	
asc. node	9460 Sep 20 16:38	25°♊09'56		morning set	9461 Sep 07 17:37	15°♊22'40	
	9460 Sep 23 00:39	0°♊		asc. node	9461 Sep 07 13:33	15°♊01'28	
morning set	9460 Sep 23 12:01	1°♊00'03		max. Earth dist.	9461 Sep 13 21:40	28°♊40'56	1.31612 AU
					9461 Sep 14 11:58	0°♊	
superior conj	9460 Sep 30 10:42	16°♊11'50	1°24'12	superior conj	9461 Sep 14 22:02	0°♊55'41	1°08'11
minimum elong	9460 Sep 30 08:40	16°♊00'29	1°24'01	minimum elong	9461 Sep 14 19:47	0°♊43'16	1°07'48
max. Earth dist.	9460 Sep 30 12:19	16°♊20'50	1.31589 AU	evening rise	9461 Sep 21 15:35	15°♊43'13	
	9460 Oct 06 17:44	0°♊			9461 Sep 28 16:18	0°♊	
evening rise	9460 Oct 07 06:05	1°♊05'45		desc. node	9461 Oct 11 18:30	21°♊10'56	
	9460 Oct 22 20:12	0°♊		evening max el	9461 Oct 19 05:51	29°♊43'07	25°41'14
desc. node	9460 Oct 24 21:22	3°♊07'25			9461 Oct 19 13:02	0°♊	
evening max el	9460 Nov 06 10:05	18°♊30'07	26°49'22	retrograde	9461 Nov 02 03:43	6°♊44'32	
retrograde	9460 Nov 20 08:17	25°♊39'03		evening set	9461 Nov 08 06:58	5°♊16'58	
evening set	9460 Nov 27 04:11	23°♊40'16		min. Earth dist.	9461 Nov 12 18:20	2°♊40'17	0.57895 AU
min. Earth dist.	9460 Dec 01 00:24	21°♊02'38	0.59958 AU	inferior conj	9461 Nov 15 19:03	0°♊32'55	-5°06'18
inferior conj	9460 Dec 04 04:43	18°♊28'38	-4°05'28	minimum elong	9461 Nov 16 01:54	0°♊20'52	5°04'45
minimum elong	9460 Dec 04 12:13	18°♊13'28	4°02'56		9461 Nov 16 13:52	30°♊	
morning rise	9460 Dec 11 22:48	13°♊46'25		morning rise	9461 Nov 23 23:10	26°♊13'08	
direct	9460 Dec 14 02:44	13°♊28'53		direct	9461 Nov 26 06:16	25°♊56'40	
asc. node	9460 Dec 17 16:23	14°♊19'04		asc. node	9461 Dec 04 13:25	29°♊47'59	
morning max el	9460 Dec 21 16:15	17°♊13'45	18°08'22		9461 Dec 04 18:31	0°♊	
	9460 Dec 30 17:33	0°♊		morning max el	9461 Dec 04 21:21	0°♊06'48	18°47'54
morning set	9461 Jan 06 08:31	12°♊05'43		morning set	9461 Dec 21 05:29	26°♊20'23	
					9461 Dec 23 02:19	0°♊	
superior conj	9461 Jan 16 00:23	29°♊56'59	0°36'06	superior conj	9461 Dec 29 19:11	12°♊58'05	1°04'24
minimum elong	9461 Jan 16 03:00	0°♊08'41	0°35'59	minimum elong	9461 Dec 29 22:25	13°♊13'25	1°04'17
	9461 Jan 16 01:04	0°♊		max. Earth dist.	9462 Jan 05 22:33	26°♊02'08	1.39469 AU
desc. node	9461 Jan 20 20:28	8°♊27'12		desc. node	9462 Jan 07 17:23	29°♊09'29	
max. Earth dist.	9461 Jan 23 15:28	13°♊12'20	1.41605 AU		9462 Jan 08 05:04	0°♊	
evening rise	9461 Jan 28 17:42	21°♊35'51		evening rise	9462 Jan 09 21:38	2°♊53'31	
	9461 Feb 03 01:09	0°♊			9462 Jan 27 06:39	0°♊	
	9461 Feb 24 01:31	0°♊		evening max el	9462 Feb 13 23:28	22°♊13'46	24°14'14
evening max el	9461 Mar 03 09:22	8°♊26'37	22°54'05	retrograde	9462 Feb 25 05:55	28°♊50'13	
retrograde	9461 Mar 13 13:20	14°♊27'43		evening set	9462 Mar 02 14:48	26°♊35'45	
asc. node	9461 Mar 15 15:08	14°♊06'33		asc. node	9462 Mar 02 12:16	26°♊41'05	
evening set	9461 Mar 18 10:04	12°♊26'49		min. Earth dist.	9462 Mar 07 06:53	21°♊14'01	0.68215 AU
inferior conj	9461 Mar 23 18:50	6°♊02'02	2°22'12	inferior conj	9462 Mar 08 02:46	20°♊06'59	1°43'52
minimum elong	9461 Mar 23 16:37	6°♊09'44	2°21'35	minimum elong	9462 Mar 08 00:44	20°♊13'52	1°43'16
min. Earth dist.	9461 Mar 23 10:43	6°♊30'13	0.68527 AU	morning rise	9462 Mar 13 10:43	14°♊05'42	
morning rise	9461 Mar 28 23:03	29°♊54'00		direct	9462 Mar 17 09:00	12°♊37'48	
	9461 Mar 28 20:11	30°♊		morning max el	9462 Mar 25 02:04	16°♊58'44	20°11'24
direct	9461 Apr 02 10:24	28°♊04'06			9462 Apr 04 11:48	0°♊	
	9461 Apr 07 12:54	0°♊		desc. node	9462 Apr 05 17:30	1°♊45'24	
morning max el	9461 Apr 11 04:51	3°♊09'01	21°26'35	morning set	9462 Apr 21 21:07	25°♊56'25	
desc. node	9461 Apr 18 20:39	12°♊11'31			9462 Apr 24 11:59	0°♊	
	9461 May 01 10:42	0°♊		max. Earth dist.	9462 May 01 20:45	11°♊37'03	1.43964 AU
morning set	9461 May 12 20:03	17°♊28'55					
max. Earth dist.	9461 May 19 11:39	28°♊12'38	1.42198 AU	superior conj	9462 May 07 17:13	21°♊06'10	-2°11'07
	9461 May 20 13:40	0°♊		minimum elong	9462 May 07 19:44	21°♊16'32	2°11'18
superior conj	9461 May 26 22:53	10°♊47'56	-1°55'56		9462 May 13 01:34	0°♊	
minimum elong	9461 May 27 04:48	11°♊13'32	1°55'46	evening rise	9462 May 20 13:45	12°♊50'29	
	9461 Jun 06 17:37	0°♊		asc. node	9462 May 29 10:52	27°♊58'18	
evening rise	9461 Jun 07 03:35	0°♊45'20			9462 May 30 17:12	0°♊	
asc. node	9461 Jun 11 13:49	8°♊45'28		evening max el	9462 Jun 07 00:43	9°♊45'27	18°06'23
evening max el	9461 Jun 23 11:24	26°♊31'58	18°08'05	retrograde	9462 Jun 13 10:37	13°♊05'46	
retrograde	9461 Jun 30 07:08	29°♊59'51		evening set	9462 Jun 16 04:44	12°♊27'33	
evening set	9461 Jul 02 17:33	29°♊33'48		inferior conj	9462 Jun 22 11:24	7°♊16'42	2°37'16
inferior conj	9461 Jul 09 15:05	24°♊42'22	1°44'46	minimum elong	9462 Jun 22 14:05	7°♊09'38	2°36'21
minimum elong	9461 Jul 09 17:52	24°♊35'58	1°43'36	min. Earth dist.	9462 Jun 25 08:39	4°♊16'04	0.62388 AU
min. Earth dist.	9461 Jul 12 22:20	21°♊41'37	0.60138 AU				

morning rise	9462 Jun 28 21:34	1°☿09'22		minimum elong	9463 Jun 05 23:01	20°♊15'16	3°06'52
	9462 Jun 30 17:29	30°♊11		min. Earth dist.	9463 Jun 08 04:27	17°♊39'43	0.64426 AU
desc. node	9462 Jul 02 17:14	29°♊09'26		morning rise	9463 Jun 11 19:27	14°♊03'32	
direct	9462 Jul 05 15:08	28°♊42'26		direct	9463 Jun 18 11:16	11°♊21'45	
	9462 Jul 10 20:43	0°☿		desc. node	9463 Jun 19 14:16	11°♊25'57	
morning max el	9462 Jul 19 17:35	6°☿44'28	27°55'05	morning max el	9463 Jul 02 03:26	19°♊21'12	27°27'28
	9462 Aug 06 09:58	0°♊			9463 Jul 11 04:29	0°☿	
morning set	9462 Aug 22 17:25	29°♊25'43			9463 Jul 30 10:05	0°♊	
	9462 Aug 23 00:09	0°♊		morning set	9463 Aug 06 08:54	13°♊02'27	
asc. node	9462 Aug 25 10:28	5°♊01'58		max. Earth dist.	9463 Aug 11 01:58	22°♊33'36	1.33114 AU
max. Earth dist.	9462 Aug 28 03:29	10°♊48'22	1.32116 AU	asc. node	9463 Aug 12 07:22	25°♊07'02	
superior conj	9462 Aug 30 07:09	15°♊29'00	0°47'16	superior conj	9463 Aug 14 12:04	29°♊45'58	0°21'51
minimum elong	9462 Aug 30 05:13	15°♊18'25	0°46'48	minimum elong	9463 Aug 14 11:00	29°♊40'19	0°21'27
	9462 Sep 05 22:37	0°♊			9463 Aug 14 14:41	0°♊	
evening rise	9462 Sep 06 02:56	0°♊23'11		evening rise	9463 Aug 21 14:16	14°♊59'50	
	9462 Sep 22 07:36	0°♊			9463 Aug 29 01:39	0°♊	
desc. node	9462 Sep 28 15:40	8°♊00'59		evening max el	9463 Sep 12 06:00	20°♊20'03	22°29'07
evening max el	9462 Sep 30 18:28	10°♊11'13	24°09'13	desc. node	9463 Sep 15 12:51	23°♊10'01	
retrograde	9462 Oct 14 10:56	17°♊02'31		retrograde	9463 Sep 25 06:10	26°♊49'13	
evening set	9462 Oct 19 09:09	16°♊09'12		evening set	9463 Sep 28 16:15	26°♊23'27	
min. Earth dist.	9462 Oct 25 05:08	13°♊15'00	0.56124 AU	min. Earth dist.	9463 Oct 06 12:54	22°♊54'15	0.54957 AU
inferior conj	9462 Oct 27 12:58	11°♊49'17	-5°39'21	inferior conj	9463 Oct 07 13:02	22°♊20'07	-5°24'36
minimum elong	9462 Oct 27 14:45	11°♊46'32	5°39'05	minimum elong	9463 Oct 07 06:57	22°♊28'44	5°23'42
morning rise	9462 Nov 04 22:25	7°♊50'32		morning rise	9463 Oct 15 23:26	18°♊32'39	
direct	9462 Nov 07 14:38	7°♊31'53		direct	9463 Oct 19 05:26	18°♊08'46	
morning max el	9462 Nov 17 15:10	12°♊16'20	19°49'55	morning max el	9463 Oct 30 19:41	23°♊35'47	21°14'07
asc. node	9462 Nov 21 10:24	16°♊31'54			9463 Nov 05 09:32	0°♊	
	9462 Nov 29 20:13	0°♊		asc. node	9463 Nov 08 07:23	4°♊14'22	
morning set	9462 Dec 05 09:44	10°♊54'16		morning set	9463 Nov 19 18:29	25°♊38'19	
					9463 Nov 21 20:29	0°♊	
superior conj	9462 Dec 13 05:00	26°♊41'52	1°24'06	superior conj	9463 Nov 27 01:31	10°♊54'55	1°35'51
minimum elong	9462 Dec 13 07:39	26°♊55'00	1°24'10	minimum elong	9463 Nov 27 03:01	11°♊02'41	1°36'05
	9462 Dec 14 21:11	0°♊		max. Earth dist.	9463 Dec 01 15:01	20°♊10'24	1.35312 AU
max. Earth dist.	9462 Dec 19 04:58	8°♊16'36	1.37296 AU	evening rise	9463 Dec 05 17:14	28°♊04'56	
evening rise	9462 Dec 22 22:36	15°♊06'23			9463 Dec 06 17:50	0°♊	
desc. node	9462 Dec 25 14:21	19°♊47'05		desc. node	9463 Dec 12 11:23	10°♊14'50	
	9462 Dec 31 16:58	0°♊			9463 Dec 24 23:48	0°♊	
	9463 Jan 21 23:08	0°♊		evening max el	9464 Jan 10 02:00	19°♊47'45	26°31'24
evening max el	9463 Jan 27 12:45	6°♊02'48	25°29'00	retrograde	9464 Jan 23 01:05	27°♊05'17	
retrograde	9463 Feb 08 18:03	13°♊05'10		evening set	9464 Jan 29 10:14	24°♊31'56	
evening set	9463 Feb 14 15:27	10°♊39'17		min. Earth dist.	9464 Feb 02 12:52	20°♊19'38	0.66404 AU
asc. node	9463 Feb 17 09:24	7°♊51'50		inferior conj	9464 Feb 04 08:10	18°♊09'45	0°01'20
min. Earth dist.	9463 Feb 19 00:21	5°♊52'26	0.67505 AU	minimum elong	9464 Feb 04 08:07	18°♊09'53	0°01'33
inferior conj	9463 Feb 20 07:54	4°♊11'08	0°56'50	transit middle	9464 Feb 04 08:07	18°♊09'53	0°01'33
minimum elong	9463 Feb 20 06:33	4°♊15'26	0°56'29	transit begin	9464 Feb 04 05:13	18°♊18'35	
	9463 Feb 23 21:06	30°♊		transit end	9464 Feb 04 11:00	18°♊01'12	
morning rise	9463 Feb 25 22:05	28°♊18'14		asc. node	9464 Feb 04 06:33	18°♊14'36	
direct	9463 Mar 01 08:17	27°♊10'52		morning rise	9464 Feb 10 06:56	12°♊27'17	
	9463 Mar 07 05:32	0°♊		direct	9464 Feb 13 06:32	11°♊37'28	
morning max el	9463 Mar 08 07:17	1°♊00'00	19°10'35	morning max el	9464 Feb 19 19:15	15°♊07'34	18°25'53
greatest brilliancy	9463 Mar 21 11:14	18°♊31'10	-0.7m		9464 Mar 01 20:10	0°♊	
desc. node	9463 Mar 23 14:21	21°♊44'20		desc. node	9464 Mar 09 11:14	12°♊01'14	
	9463 Mar 28 23:45	0°♊		morning set	9464 Mar 10 22:17	14°♊20'31	
morning set	9463 Mar 31 22:39	4°♊33'38			9464 Mar 20 19:59	0°♊	
max. Earth dist.	9463 Apr 14 12:08	25°♊41'17	1.45134 AU	superior conj	9464 Mar 26 18:13	9°♊17'16	-1°46'23
	9463 Apr 17 05:43	0°♊		minimum elong	9464 Mar 26 08:47	8°♊40'23	1°45'37
superior conj	9463 Apr 17 12:13	0°♊25'43	-2°08'53	max. Earth dist.	9464 Mar 27 06:55	10°♊06'57	1.45589 AU
minimum elong	9463 Apr 17 07:43	0°♊07'53	2°08'52		9464 Apr 08 23:23	0°♊	
evening rise	9463 May 02 01:59	23°♊58'26		evening rise	9464 Apr 11 14:29	4°♊08'40	
	9463 May 05 17:48	0°♊		greatest brilliancy	9464 Apr 21 07:44	19°♊25'27	-0.8m
asc. node	9463 May 16 07:56	16°♊43'29			9464 Apr 28 10:22	0°♊	
evening max el	9463 May 21 13:51	23°♊13'28	18°23'13	asc. node	9464 May 02 05:03	4°♊52'01	
retrograde	9463 May 27 23:54	26°♊40'33		evening max el	9464 May 04 00:12	6°♊49'39	18°57'47
evening set	9463 May 31 01:31	25°♊48'35		retrograde	9464 May 10 19:04	10°♊36'11	
inferior conj	9463 Jun 05 21:20	20°♊20'10	3°07'25				

evening set	9464 May 14 04:29	9° Π 29'33		evening rise	9465 Mar 22 08:01	13° Υ 37'35	
inferior conj	9464 May 19 17:08	3° Π 45'22	3°19'43		9465 Apr 02 01:40	0° δ	
minimum elong	9464 May 19 17:33	3° Π 44'03	3°19'24	greatest brilliancy	9465 Apr 05 13:41	5° δ 12'33	-0.6m
min. Earth dist.	9464 May 21 09:06	1° Π 38'55	0.66106 AU	evening max el	9465 Apr 17 05:55	20° δ 29'20	19°48'41
	9464 May 22 17:55	30° κ δ		asc. node	9465 Apr 19 02:10	22° δ 12'06	
morning rise	9464 May 25 06:02	27° δ 25'42		retrograde	9465 Apr 24 17:04	24° δ 46'08	
direct	9464 May 31 14:46	24° δ 40'29		evening set	9465 Apr 28 11:03	23° δ 24'14	
desc. node	9464 Jun 05 11:17	25° δ 59'13		inferior conj	9465 May 03 19:37	17° δ 25'53	3°17'46
	9464 Jun 11 01:51	0° Π		minimum elong	9465 May 03 18:53	17° δ 28'21	3°17'29
morning max el	9464 Jun 13 14:12	2° Π 24'04	26°30'12	min. Earth dist.	9465 May 04 20:52	16° δ 01'20	0.67364 AU
	9464 Jul 04 09:05	0° δ		morning rise	9465 May 09 02:24	11° δ 07'08	
morning set	9464 Jul 19 12:51	26° δ 04'28		direct	9465 May 15 00:22	8° δ 29'05	
	9464 Jul 21 14:18	0° Ω		desc. node	9465 May 23 08:16	12° δ 18'35	
max. Earth dist.	9464 Jul 23 14:07	3° Ω 53'04	1.34600 AU	morning max el	9465 May 26 23:56	15° δ 40'28	25°12'19
					9465 Jun 07 18:58	0° Π	
superior conj	9464 Jul 28 10:28	13° Ω 40'35	-0°07'24		9465 Jun 27 06:44	0° δ	
minimum elong	9464 Jul 28 10:53	13° Ω 42'48	0°07'34	morning set	9465 Jul 02 00:54	8° δ 19'12	
behind sun begin	9464 Jul 28 05:40	13° Ω 15'54		max. Earth dist.	9465 Jul 05 15:47	14° δ 56'12	1.36527 AU
behind sun end	9464 Jul 28 16:06	14° Ω 09'44					
asc. node	9464 Jul 29 04:19	15° Ω 12'55		superior conj	9465 Jul 11 23:22	27° δ 04'27	-0°39'18
evening rise	9464 Aug 04 23:36	29° Ω 27'43		minimum elong	9465 Jul 12 01:49	27° δ 16'32	0°39'08
	9464 Aug 05 05:49	0° η			9465 Jul 13 10:41	0° Ω	
	9464 Aug 23 07:06	0° $\underline{\alpha}$		asc. node	9465 Jul 16 01:15	5° Ω 15'04	
evening max el	9464 Aug 24 01:57	0° $\underline{\alpha}$ 48'03	20°57'15	evening rise	9465 Jul 20 04:37	13° Ω 39'34	
desc. node	9464 Sep 01 10:01	6° $\underline{\alpha}$ 07'35			9465 Jul 28 18:22	0° η	
retrograde	9464 Sep 04 18:27	6° $\underline{\alpha}$ 35'42		evening max el	9465 Aug 06 11:15	11° η 57'49	19°43'14
evening set	9464 Sep 07 00:42	6° $\underline{\alpha}$ 23'33		retrograde	9465 Aug 16 10:47	16° η 54'05	
inferior conj	9464 Sep 16 05:21	2° $\underline{\alpha}$ 27'22	-4°13'43	evening set	9465 Aug 18 07:16	16° η 44'37	
minimum elong	9464 Sep 15 19:36	2° $\underline{\alpha}$ 41'12	4°10'58	desc. node	9465 Aug 19 07:12	16° η 32'03	
min. Earth dist.	9464 Sep 16 21:28	2° $\underline{\alpha}$ 04'29	0.54659 AU	inferior conj	9465 Aug 27 04:17	12° η 42'10	-2°24'47
	9464 Sep 20 18:46	30° κ η		minimum elong	9465 Aug 26 21:44	12° η 52'21	2°22'29
morning rise	9464 Sep 24 14:42	28° η 31'45		min. Earth dist.	9465 Aug 29 08:33	11° η 21'07	0.55320 AU
direct	9464 Sep 28 13:25	27° η 58'18		morning rise	9465 Sep 04 10:08	8° η 19'16	
	9464 Oct 05 21:56	0° $\underline{\alpha}$		direct	9465 Sep 09 04:09	7° η 29'19	
morning max el	9464 Oct 11 12:51	4° $\underline{\alpha}$ 11'14	22°55'19	morning max el	9465 Sep 23 00:42	14° η 22'44	24°41'44
asc. node	9464 Oct 25 04:21	22° $\underline{\alpha}$ 42'07			9465 Oct 05 07:32	0° $\underline{\alpha}$	
	9464 Oct 29 02:50	0° \mathbb{M}		asc. node	9465 Oct 12 01:16	11° $\underline{\alpha}$ 43'41	
morning set	9464 Nov 03 05:37	10° \mathbb{M} 26'44		morning set	9465 Oct 18 17:23	25° $\underline{\alpha}$ 14'25	
					9465 Oct 20 22:19	0° \mathbb{M}	
superior conj	9464 Nov 10 05:23	25° \mathbb{M} 27'35	1°40'28	superior conj	9465 Oct 25 13:56	10° \mathbb{M} 11'43	1°38'41
minimum elong	9464 Nov 10 05:37	25° \mathbb{M} 28'51	1°40'44	minimum elong	9465 Oct 25 13:03	10° \mathbb{M} 06'52	1°38'50
	9464 Nov 12 08:40	0° Z		max. Earth dist.	9465 Oct 27 10:09	14° \mathbb{M} 12'40	1.32512 AU
max. Earth dist.	9464 Nov 13 08:32	2° Z 05'04	1.33692 AU	evening rise	9465 Nov 01 20:51	25° \mathbb{M} 42'37	
evening rise	9464 Nov 18 01:49	11° Z 40'03			9465 Nov 03 24:00	0° Z	
desc. node	9464 Nov 28 08:27	0° Z 27'31		desc. node	9465 Nov 15 05:33	20° Z 18'30	
	9464 Nov 28 01:57	0° Z			9465 Nov 21 12:33	0° Z	
	9464 Dec 19 08:51	0° \approx		evening max el	9465 Dec 05 02:34	16° Z 29'15	27°30'13
evening max el	9464 Dec 22 15:04	3° \approx 20'19	27°14'07	retrograde	9465 Dec 18 20:31	23° Z 48'02	
retrograde	9465 Jan 05 02:12	10° \approx 42'28		evening set	9465 Dec 25 21:09	21° Z 19'48	
evening set	9465 Jan 11 21:01	8° \approx 07'41		min. Earth dist.	9465 Dec 29 14:45	18° Z 10'53	0.63169 AU
min. Earth dist.	9465 Jan 15 18:20	4° \approx 28'39	0.64942 AU	inferior conj	9466 Jan 01 08:26	15° Z 28'34	-2°11'56
inferior conj	9465 Jan 18 01:14	1° \approx 57'42	-1°02'06	minimum elong	9466 Jan 01 12:41	15° Z 18'01	2°09'55
minimum elong	9465 Jan 18 03:06	1° \approx 52'34	1°01'01	morning rise	9466 Jan 08 06:18	10° Z 14'38	
	9465 Jan 19 21:12	30° κ Z		asc. node	9466 Jan 08 00:46	10° Z 19'56	
asc. node	9465 Jan 21 03:40	28° Z 46'06		direct	9466 Jan 10 14:32	9° Z 48'31	
morning rise	9465 Jan 24 10:44	26° Z 28'00		morning max el	9466 Jan 17 04:57	13° Z 12'26	17°47'26
direct	9465 Jan 27 01:30	25° Z 52'00			9466 Jan 28 18:15	0° \approx	
morning max el	9465 Feb 02 11:27	29° Z 14'14	17°57'58	morning set	9466 Feb 02 10:12	8° \approx 04'24	
	9465 Feb 03 05:17	0° \approx		desc. node	9466 Feb 11 04:59	23° \approx 09'06	
morning set	9465 Feb 20 03:23	25° \approx 35'03					
	9465 Feb 22 19:27	0° X		superior conj	9466 Feb 14 13:38	28° \approx 45'22	-0°24'44
desc. node	9465 Feb 24 08:06	2° X 30'51		minimum elong	9466 Feb 14 11:03	28° \approx 34'42	0°24'09
					9466 Feb 15 07:44	0° X	
superior conj	9465 Mar 06 05:37	18° X 30'39	-1°08'21	max. Earth dist.	9466 Feb 20 20:24	8° X 57'53	1.44311 AU
minimum elong	9465 Mar 05 21:58	18° X 00'17	1°07'17	evening rise	9466 Mar 01 19:28	23° X 00'36	
max. Earth dist.	9465 Mar 10 02:23	24° X 37'19	1.45302 AU		9466 Mar 06 09:24	0° Υ	
	9465 Mar 13 12:49	0° Υ					

	9466 Mar 27 12:48	0°♄		max. Earth dist.	9467 Feb 03 10:46	22°♊52'19	1.42721 AU
evening max el	9466 Mar 31 06:11	4°♄11'03	20°53'24		9467 Feb 07 20:19	0°♋	
asc. node	9466 Apr 05 23:19	8°♄30'13		evening rise	9467 Feb 09 15:51	2°♋52'43	
retrograde	9466 Apr 08 15:38	9°♄06'03			9467 Feb 27 19:41	0°♌	
evening set	9466 Apr 12 19:13	7°♄28'38		evening max el	9467 Mar 14 01:10	17°♌53'31	22°08'19
inferior conj	9466 Apr 18 02:15	1°♄17'57	3°04'04	retrograde	9467 Mar 23 13:00	23°♌30'38	
minimum elong	9466 Apr 18 00:39	1°♄23'29	3°03'40	asc. node	9467 Mar 23 20:28	23°♌30'09	
min. Earth dist.	9466 Apr 18 13:46	0°♄38'10	0.68171 AU	evening set	9467 Mar 28 03:16	21°♌37'53	
	9466 Apr 19 00:52	30°♌		inferior conj	9467 Apr 02 10:53	15°♌17'19	2°40'11
morning rise	9466 Apr 23 05:53	25°♌02'24		minimum elong	9467 Apr 02 08:46	15°♌24'39	2°39'38
direct	9466 Apr 28 14:56	22°♌39'42		min. Earth dist.	9467 Apr 02 09:37	15°♌21'41	0.68525 AU
morning max el	9466 May 09 09:11	29°♌04'59	23°44'00	morning rise	9467 Apr 07 14:07	9°♌06'22	
desc. node	9466 May 10 05:12	29°♌56'34		direct	9467 Apr 12 09:22	7°♌03'59	
	9466 May 10 06:30	0°♄		morning max el	9467 Apr 21 20:40	12°♌37'26	22°14'59
	9466 Jun 01 13:24	0°♅		desc. node	9467 Apr 27 02:05	18°♌31'04	
morning set	9466 Jun 13 15:55	19°♅33'33			9467 May 05 17:04	0°♄	
max. Earth dist.	9466 Jun 17 12:23	26°♅14'03	1.38746 AU	morning set	9467 May 25 05:02	29°♄35'48	
	9466 Jun 19 15:10	0°♅			9467 May 25 11:00	0°♅	
				max. Earth dist.	9467 May 30 11:04	8°♅15'54	1.40998 AU
superior conj	9466 Jun 24 23:14	9°♅49'03	-1°11'50				
minimum elong	9466 Jun 25 03:52	10°♅10'53	1°11'26	superior conj	9467 Jun 07 05:39	21°♅43'56	-1°41'45
asc. node	9466 Jul 02 22:13	25°♅09'47		minimum elong	9467 Jun 07 11:45	22°♅11'07	1°41'24
evening rise	9466 Jul 04 02:38	27°♅28'33			9467 Jun 11 19:13	0°♅	
	9466 Jul 05 09:46	0°♄		evening rise	9467 Jun 17 14:15	10°♅45'57	
evening max el	9466 Jul 20 09:02	23°♄52'36	18°50'02	asc. node	9467 Jun 19 19:14	14°♅52'46	
retrograde	9466 Jul 28 18:50	28°♄03'30			9467 Jun 28 13:28	0°♄	
evening set	9466 Jul 30 17:51	27°♄50'44		evening max el	9467 Jul 03 15:51	6°♄25'43	18°17'37
desc. node	9466 Aug 06 04:21	24°♄43'06		retrograde	9467 Jul 10 22:17	10°♄05'09	
inferior conj	9466 Aug 07 21:10	23°♄31'07	-0°31'21	evening set	9467 Jul 13 04:09	9°♄44'59	
minimum elong	9466 Aug 07 19:52	23°♄33'28	0°31'03	inferior conj	9467 Jul 20 11:54	5°♄04'53	1°02'44
min. Earth dist.	9466 Aug 10 23:37	21°♄17'53	0.56810 AU	minimum elong	9467 Jul 20 13:55	5°♄00'37	1°01'45
morning rise	9466 Aug 15 18:35	18°♄31'19		min. Earth dist.	9467 Jul 23 20:54	2°♄15'07	0.58843 AU
direct	9466 Aug 21 08:03	17°♄16'52		desc. node	9467 Jul 24 01:26	2°♄06'05	
morning max el	9466 Sep 04 14:37	24°♄41'02	26°16'35		9467 Jul 27 00:18	30°♌♄	
	9466 Sep 09 12:19	0°♌		morning rise	9467 Jul 27 20:23	29°♄30'42	
	9466 Sep 28 07:59	0°♌		direct	9467 Aug 03 01:53	27°♄46'13	
asc. node	9466 Sep 28 22:10	1°♌10'15			9467 Aug 10 10:38	0°♄	
morning set	9466 Oct 03 04:05	9°♌56'38		morning max el	9467 Aug 17 11:05	5°♄32'31	27°24'05
					9467 Sep 04 14:28	0°♌	
superior conj	9466 Oct 10 01:02	25°♌00'34	1°31'03	asc. node	9467 Sep 15 19:03	20°♌54'57	
minimum elong	9466 Oct 09 23:19	24°♌50'59	1°31'00	morning set	9467 Sep 17 12:08	24°♌28'52	
max. Earth dist.	9466 Oct 10 17:41	26°♌32'46	1.31796 AU		9467 Sep 20 02:01	0°♌	
	9466 Oct 12 07:13	0°♌		max. Earth dist.	9467 Sep 24 03:36	8°♌57'16	1.31544 AU
evening rise	9466 Oct 16 23:22	10°♌04'20					
	9466 Oct 27 06:46	0°♌		superior conj	9467 Sep 24 12:50	9°♌48'34	1°18'01
desc. node	9466 Nov 02 02:40	9°♌38'26		minimum elong	9467 Sep 24 10:39	9°♌36'25	1°17'45
evening max el	9466 Nov 17 09:53	29°♌00'26	27°14'08	evening rise	9467 Oct 01 06:58	24°♌38'30	
	9466 Nov 18 11:52	0°♄			9467 Oct 03 20:16	0°♌	
retrograde	9466 Dec 01 06:48	6°♄12'24		desc. node	9467 Oct 19 23:47	28°♌15'09	
evening set	9466 Dec 08 07:09	3°♄59'58			9467 Oct 21 05:46	0°♌	
min. Earth dist.	9466 Dec 12 00:28	1°♄14'25	0.61166 AU	evening max el	9467 Oct 30 10:09	10°♌42'57	26°23'58
	9466 Dec 13 11:02	30°♌		retrograde	9467 Nov 13 08:08	17°♌48'36	
inferior conj	9466 Dec 15 02:27	28°♌33'12	-3°24'48	evening set	9467 Nov 19 22:46	16°♌01'53	
minimum elong	9466 Dec 15 09:04	28°♌18'45	3°22'11	min. Earth dist.	9467 Nov 23 23:29	13°♌27'10	0.59067 AU
morning rise	9466 Dec 22 13:23	23°♌38'27		inferior conj	9467 Nov 27 03:48	11°♌02'23	-4°33'26
direct	9466 Dec 24 17:56	23°♌18'39		minimum elong	9467 Nov 27 11:28	10°♌47'47	4°31'11
asc. node	9466 Dec 25 21:50	23°♌24'25		morning rise	9467 Dec 05 02:39	6°♌29'52	
morning max el	9466 Dec 31 20:28	26°♌53'02	17°55'10	direct	9467 Dec 07 07:24	6°♌13'07	
	9467 Jan 03 14:11	0°♄		asc. node	9467 Dec 12 18:52	8°♌03'54	
morning set	9467 Jan 16 12:03	21°♄27'05		morning max el	9467 Dec 15 06:31	10°♌07'06	18°22'35
	9467 Jan 21 04:51	0°♄			9467 Dec 28 06:26	0°♄	
				morning set	9467 Dec 31 03:19	5°♄26'39	
superior conj	9467 Jan 26 22:57	10°♄12'05	0°15'56				
minimum elong	9467 Jan 27 00:20	10°♄18'03	0°15'58	superior conj	9468 Jan 09 07:01	22°♄43'21	0°49'10
behind sun begin	9467 Jan 26 23:57	10°♄16'25		minimum elong	9468 Jan 09 10:05	22°♄57'29	0°49'01
behind sun end	9467 Jan 27 00:42	10°♄19'41			9468 Jan 13 07:52	0°♄	
desc. node	9467 Jan 29 01:53	13°♄51'40		desc. node	9468 Jan 15 22:48	4°♄35'20	

max. Earth dist.	9468 Jan 16 20:00	6°  06'32	1.40716 AU	desc. node	9469 Jan 01 19:46	25°  16'15	
evening rise	9468 Jan 21 07:13	13°  36'56			9469 Jan 04 14:11	0° 	
	9468 Jan 31 16:38	0° 			9469 Jan 24 08:25	0° 	
	9468 Feb 23 02:27	0° 		evening max el	9469 Feb 06 05:43	15°  25'55	24°47'09
evening max el	9468 Feb 24 16:18	1°  38'04	23°28'19	retrograde	9469 Feb 17 22:46	22°  15'35	
retrograde	9468 Mar 06 07:46	7°  55'29		evening set	9469 Feb 23 12:54	19°  55'53	
asc. node	9468 Mar 09 17:37	6°  59'13		asc. node	9469 Feb 24 14:46	18°  55'49	
evening set	9468 Mar 11 09:40	5°  48'19		min. Earth dist.	9469 Feb 28 01:44	14°  48'52	0.67952 AU
	9468 Mar 16 08:17	30° 		inferior conj	9469 Mar 01 02:36	13°  26'28	1°25'00
inferior conj	9468 Mar 16 19:36	29°  21'09	2°07'01	minimum elong	9469 Mar 01 00:47	13°  32'29	1°24'27
minimum elong	9468 Mar 16 17:24	29°  28'43	2°06'23	morning rise	9469 Mar 06 12:53	7°  28'26	
min. Earth dist.	9468 Mar 16 06:21	0°  06'41	0.68444 AU	direct	9469 Mar 10 05:46	6°  09'42	
morning rise	9468 Mar 22 01:06	23°  15'58		morning max el	9469 Mar 17 14:24	10°  16'01	19°43'38
direct	9468 Mar 26 06:42	21°  35'44		greatest brilliancy	9469 Mar 30 08:34	26°  51'06	-0.6m
morning max el	9468 Apr 03 13:43	26°  20'45	20°53'05	desc. node	9469 Mar 30 19:50	27°  32'29	
	9468 Apr 06 21:47	0° 			9469 Apr 01 11:45	0° 	
desc. node	9468 Apr 12 22:58	7°  46'43		morning set	9469 Apr 12 14:23	16°  51'29	
	9468 Apr 28 04:17	0° 			9469 Apr 21 01:14	0° 	
morning set	9468 May 03 16:15	8°  28'45		max. Earth dist.	9469 Apr 24 03:13	4°  51'58	1.44532 AU
max. Earth dist.	9468 May 11 15:45	21°  10'27	1.43005 AU				
	9468 May 17 00:16	0° 		superior conj	9469 Apr 28 21:58	12°  30'43	-2°12'37
				minimum elong	9469 Apr 28 21:45	12°  29'52	2°12'49
superior conj	9468 May 18 14:03	2°  38'49	-2°04'08		9469 May 09 12:42	0° 	
minimum elong	9468 May 18 19:05	3°  00'05	2°04'07	evening rise	9469 May 12 12:27	5°  02'43	
evening rise	9468 May 30 11:07	23°  20'52		asc. node	9469 May 23 13:19	23°  21'11	
	9468 Jun 03 05:00	0° 			9469 May 28 05:45	0° 	
asc. node	9468 Jun 05 16:15	4°  18'34		evening max el	9469 May 30 17:28	2°  48'27	18°11'24
evening max el	9468 Jun 16 03:48	19°  27'11	18°05'02	retrograde	9469 Jun 06 02:22	6°  26'13	
retrograde	9468 Jun 22 18:17	22°  50'27		evening set	9469 Jun 08 23:37	5°  26'13	
evening set	9468 Jun 25 07:51	22°  19'38		inferior conj	9469 Jun 15 01:14	0°  08'03	2°52'29
inferior conj	9468 Jul 01 22:34	17°  19'44	2°10'04	minimum elong	9469 Jun 15 03:33	0°  01'38	2°51'43
minimum elong	9468 Jul 02 01:29	17°  12'36	2°08'56		9469 Jun 15 04:09	30° 	
min. Earth dist.	9468 Jul 05 02:21	14°  16'03	0.61099 AU	min. Earth dist.	9469 Jun 17 16:55	27°  13'31	0.63286 AU
morning rise	9468 Jul 08 16:37	11°  21'12		morning rise	9469 Jun 21 05:57	23°  55'45	
desc. node	9468 Jul 09 22:33	10°  35'41		desc. node	9469 Jun 26 19:37	21°  25'12	
direct	9468 Jul 15 07:51	9°  20'30		direct	9469 Jun 27 23:38	21°  20'45	
morning max el	9468 Jul 29 14:21	17°  20'72	27°54'51	morning max el	9469 Jul 11 22:25	29°  23'49	27°47'24
	9468 Aug 09 06:28	0° 			9469 Jul 12 12:38	0° 	
	9468 Aug 27 06:46	0° 			9469 Aug 03 05:09	0° 	
morning set	9468 Aug 31 15:35	8°  44'37		morning set	9469 Aug 15 12:13	22°  37'55	
asc. node	9468 Sep 01 15:56	10°  11'11			9469 Aug 19 02:28	0° 	
max. Earth dist.	9468 Sep 06 11:56	21°  13'44	1.31765 AU	asc. node	9469 Aug 19 12:52	0°  54'32	
				max. Earth dist.	9469 Aug 20 14:53	3°  12'04	1.32479 AU
superior conj	9468 Sep 07 23:28	24°  29'00	0°59'54				
minimum elong	9468 Sep 07 21:17	24°  16'59	0°59'27	superior conj	9469 Aug 23 07:06	8°  56'42	0°37'01
	9468 Sep 10 11:22	0° 		minimum elong	9469 Aug 23 05:27	8°  47'50	0°36'34
evening rise	9468 Sep 14 17:29	9°  17'54		evening rise	9469 Aug 30 05:04	23°  57'22	
	9468 Sep 25 06:23	0° 			9469 Sep 02 02:06	0° 	
desc. node	9468 Oct 05 20:56	15°  50'43			9469 Sep 20 18:14	0° 	
evening max el	9468 Oct 11 02:14	21°  34'19	25°04'05	evening max el	9469 Sep 22 13:26	1°  50'40	23°26'34
retrograde	9468 Oct 24 22:58	28°  33'06		desc. node	9469 Sep 22 18:06	2°  01'54	
evening set	9468 Oct 30 15:15	27°  20'02		retrograde	9469 Oct 06 01:06	8°  34'35	
min. Earth dist.	9468 Nov 04 13:55	24°  38'08	0.57088 AU	evening set	9469 Oct 10 07:44	7°  54'45	
inferior conj	9468 Nov 07 09:27	22°  46'35	-5°24'55	min. Earth dist.	9469 Oct 16 23:20	4°  47'17	0.55538 AU
minimum elong	9468 Nov 07 14:45	22°  37'48	5°24'01	inferior conj	9469 Oct 18 19:07	3°  42'49	-5°39'56
morning rise	9468 Nov 15 16:33	18°  36'36		minimum elong	9469 Oct 18 17:33	3°  45'07	5°39'43
direct	9468 Nov 18 02:38	18°  19'45			9469 Oct 26 13:54	30° 	
morning max el	9468 Nov 27 07:19	22°  43'21	19°11'31	morning rise	9469 Oct 27 05:19	29°  50'14	
asc. node	9468 Nov 28 15:52	24°  06'47		direct	9469 Oct 30 02:48	29°  52'48	
	9468 Dec 03 04:28	0° 			9469 Nov 02 12:41	0° 	
morning set	9468 Dec 14 03:45	19°  50'21		morning max el	9469 Nov 09 19:33	4°  32'11	20°23'05
	9468 Dec 19 06:17	0° 		asc. node	9469 Nov 15 12:51	11°  17'37	
					9469 Nov 26 05:07	0° 	
superior conj	9468 Dec 22 08:47	6°  30'42	1°13'46	morning set	9469 Nov 28 10:11	4°  29'18	
minimum elong	9468 Dec 22 11:53	6°  19'23	1°13'43				
max. Earth dist.	9468 Dec 29 01:44	18°  37'39	1.38530 AU	superior conj	9469 Dec 05 23:36	20°  50'15	1°30'00
evening rise	9469 Jan 01 20:21	25°  18'48		minimum elong	9469 Dec 06 01:47	20°  51'03	1°30'09

	9469 Dec 11 00:36	0°♄		superior conj	9470 Nov 19 23:38	4°♄25'04	1°38'38
max. Earth dist.	9469 Dec 11 08:54	0°♄39'53	1.36419 AU	minimum elong	9470 Nov 20 00:35	4°♄30'07	1°38'53
evening rise	9469 Dec 15 05:19	7°♄52'41		max. Earth dist.	9470 Nov 23 22:15	12°♄34'20	1.34579 AU
desc. node	9469 Dec 19 16:46	15°♄50'23		evening rise	9470 Nov 28 06:26	21°♄09'01	
	9469 Dec 28 08:13	0°♄			9470 Dec 03 00:39	0°♄	
evening max el	9470 Jan 19 19:04	29°♄14'37	25°57'39	desc. node	9470 Dec 06 13:48	6°♄13'10	
	9470 Jan 20 14:04	0°♄			9470 Dec 22 05:12	0°♄	
retrograde	9470 Feb 01 08:53	6°♄24'52		evening max el	9471 Jan 02 08:37	12°♄57'06	26°52'24
evening set	9470 Feb 07 11:16	3°♄55'32		retrograde	9471 Jan 15 13:18	20°♄16'50	
asc. node	9470 Feb 11 11:56	29°♄40'15		evening set	9471 Jan 22 02:55	17°♄42'19	
	9470 Feb 11 05:27	30°♄		min. Earth dist.	9471 Jan 26 03:18	13°♄44'18	0.65830 AU
min. Earth dist.	9470 Feb 11 17:30	29°♄23'09	0.67076 AU	inferior conj	9471 Jan 28 03:29	11°♄24'45	-0°24'37
inferior conj	9470 Feb 13 05:56	27°♄29'08	0°34'19	minimum elong	9471 Jan 28 04:10	11°♄22'45	0°24'04
minimum elong	9470 Feb 13 05:04	27°♄31'51	0°34'10	asc. node	9471 Jan 29 09:03	10°♄00'13	
morning rise	9470 Feb 18 23:27	21°♄40'07		morning rise	9471 Feb 03 06:33	5°♄47'14	
direct	9470 Feb 22 04:57	20°♄40'33		direct	9471 Feb 06 02:16	5°♄03'36	
morning max el	9470 Feb 28 22:39	24°♄20'21	18°49'30	morning max el	9471 Feb 12 12:43	8°♄28'47	18°11'53
	9470 Mar 05 18:12	0°♄			9471 Feb 27 13:54	0°♄	
desc. node	9470 Mar 17 16:42	17°♄39'54		morning set	9471 Mar 03 11:32	6°♄18'05	
morning set	9470 Mar 22 23:18	25°♄52'45		desc. node	9471 Mar 04 13:36	8°♄03'17	
	9470 Mar 25 14:39	0°♄			9471 Mar 18 08:23	0°♄	
max. Earth dist.	9470 Apr 06 20:13	19°♄06'49	1.45416 AU				
				superior conj	9471 Mar 18 15:25	0°♄27'39	-1°31'36
superior conj	9470 Apr 08 09:32	21°♄33'14	-2°01'44	minimum elong	9471 Mar 18 05:59	29°♄50'37	1°30'35
minimum elong	9470 Apr 08 02:14	21°♄04'33	2°01'25	max. Earth dist.	9471 Mar 20 16:08	3°♄38'34	1.45566 AU
	9470 Apr 13 18:07	0°♄		evening rise	9471 Apr 03 17:48	25°♄34'41	
evening rise	9470 Apr 23 14:26	15°♄44'51			9471 Apr 06 14:01	0°♄	
	9470 May 02 10:57	0°♄		greatest brilliancy	9471 Apr 15 13:17	13°♄49'36	-0.7m
asc. node	9470 May 10 10:26	11°♄52'12		asc. node	9471 Apr 27 07:33	29°♄41'38	
evening max el	9470 May 14 05:46	16°♄21'00	18°35'55	evening max el	9471 Apr 27 14:21	29°♄59'03	19°17'32
retrograde	9470 May 20 18:27	19°♄54'31			9471 Apr 27 14:44	0°♄	
evening set	9470 May 23 23:24	18°♄56'20		retrograde	9471 May 04 15:06	3°♄56'57	
inferior conj	9470 May 29 15:46	13°♄21'13	3°14'32	evening set	9471 May 08 04:10	2°♄43'39	
minimum elong	9470 May 29 16:55	13°♄17'44	3°14'07		9471 May 11 02:30	30°♄	
min. Earth dist.	9470 May 31 16:30	10°♄53'55	0.65192 AU	inferior conj	9471 May 13 14:43	26°♄53'08	3°20'25
morning rise	9470 Jun 04 09:37	7°♄02'59		minimum elong	9471 May 13 14:37	26°♄53'26	3°20'09
direct	9470 Jun 10 23:10	4°♄18'11		min. Earth dist.	9471 May 15 00:14	25°♄04'11	0.66700 AU
desc. node	9470 Jun 13 16:39	4°♄43'02		morning rise	9471 May 19 00:40	20°♄33'41	
morning max el	9470 Jun 24 08:42	12°♄12'11	27°06'14	direct	9471 May 25 05:09	17°♄50'37	
	9470 Jul 08 13:52	0°♄		desc. node	9471 May 31 13:40	20°♄04'57	
	9470 Jul 26 18:56	0°♄		morning max el	9471 Jun 06 19:06	25°♄21'37	25°59'03
morning set	9470 Jul 29 23:14	6°♄01'01			9471 Jun 11 00:27	0°♄	
max. Earth dist.	9470 Aug 03 09:02	14°♄45'22	1.33688 AU		9471 Jul 02 01:58	0°♄	
asc. node	9470 Aug 06 09:48	21°♄00'39		morning set	9471 Jul 12 20:57	18°♄43'57	
				max. Earth dist.	9471 Jul 16 16:43	25°♄56'32	1.35374 AU
					9471 Jul 18 18:45	0°♄	
superior conj	9470 Aug 07 09:34	23°♄05'24	0°09'54				
minimum elong	9470 Aug 07 09:04	23°♄02'45	0°09'35	superior conj	9471 Jul 22 04:18	6°♄47'43	-0°20'41
behind sun begin	9470 Aug 07 04:32	22°♄38'51		minimum elong	9471 Jul 22 05:32	6°♄53'57	0°20'42
behind sun end	9470 Aug 07 13:37	23°♄26'40		asc. node	9471 Jul 24 06:44	11°♄05'20	
	9470 Aug 10 15:41	0°♄		evening rise	9471 Jul 29 23:36	22°♄53'16	
evening rise	9470 Aug 14 15:49	8°♄31'19			9471 Aug 02 11:55	0°♄	
	9470 Aug 25 22:18	0°♄		evening max el	9471 Aug 17 05:02	22°♄48'17	20°23'17
evening max el	9470 Sep 04 03:45	12°♄04'38	21°48'21	desc. node	9471 Aug 27 12:27	28°♄13'27	
desc. node	9470 Sep 09 15:16	16°♄19'28		retrograde	9471 Aug 28 04:19	28°♄14'35	
retrograde	9470 Sep 16 15:53	18°♄17'30		evening set	9471 Aug 30 04:31	28°♄04'26	
evening set	9470 Sep 19 12:22	17°♄59'12		inferior conj	9471 Sep 08 07:37	24°♄06'54	-3°30'14
inferior conj	9470 Sep 28 14:20	14°♄00'47	-5°00'58	minimum elong	9471 Sep 07 22:35	24°♄20'05	3°27'20
minimum elong	9470 Sep 28 05:47	14°♄12'45	4°59'12	min. Earth dist.	9471 Sep 09 16:07	23°♄19'28	0.54823 AU
min. Earth dist.	9470 Sep 28 07:05	14°♄10'55	0.54719 AU	morning rise	9471 Sep 16 16:00	20°♄02'06	
morning rise	9470 Oct 07 00:26	10°♄12'30		direct	9471 Sep 20 22:39	19°♄22'49	
direct	9470 Oct 10 13:34	9°♄44'58		morning max el	9471 Oct 04 08:33	25°♄53'14	23°40'58
morning max el	9470 Oct 22 18:37	15°♄31'26	21°55'31		9471 Oct 08 06:03	0°♄	
asc. node	9470 Nov 02 09:50	29°♄21'30		asc. node	9471 Oct 20 06:46	18°♄05'02	
	9470 Nov 02 19:07	0°♄			9471 Oct 26 09:01	0°♄	
morning set	9470 Nov 12 20:14	19°♄16'50		morning set	9471 Oct 28 07:52	4°♄06'05	
	9470 Nov 17 21:30	0°♄					

superior conj	9471 Nov 04 05:46	19°♍03'45	1°40'28		9472 Oct 16 21:48	0°♍	
minimum elong	9471 Nov 04 05:31	19°♍02'19	1°40'41				
max. Earth dist.	9471 Nov 06 19:34	24°♍35'18	1.33135 AU	superior conj	9472 Oct 18 15:40	3°♍51'03	1°36'08
	9471 Nov 09 09:30	0°♌		minimum elong	9472 Oct 18 14:23	3°♍43'59	1°36'13
evening rise	9471 Nov 11 19:50	4°♌56'55		max. Earth dist.	9472 Oct 19 23:57	6°♍48'30	1.32146 AU
desc. node	9471 Nov 23 10:51	26°♌17'51		evening rise	9472 Oct 25 18:21	19°♍08'32	
	9471 Nov 25 17:07	0°♋			9472 Oct 31 05:29	0°♌	
evening max el	9471 Dec 15 21:12	26°♋21'09	27°24'27	desc. node	9472 Nov 09 07:56	15°♌56'58	
	9471 Dec 20 04:37	0°♊			9472 Nov 19 01:10	0°♋	
retrograde	9471 Dec 29 11:25	3°♊42'11		evening max el	9472 Nov 27 06:58	9°♋14'43	27°27'22
evening set	9472 Jan 05 09:30	1°♊08'53		retrograde	9472 Dec 11 02:36	16°♋31'34	
	9472 Jan 06 19:43	30°♊♋		evening set	9472 Dec 18 04:06	14°♋08'28	
min. Earth dist.	9472 Jan 09 04:56	27°♋43'31	0.64233 AU	min. Earth dist.	9472 Dec 21 20:49	11°♋10'48	0.62343 AU
inferior conj	9472 Jan 11 16:41	25°♋06'22	-1°31'03	inferior conj	9472 Dec 24 18:39	8°♋26'52	-2°42'47
minimum elong	9472 Jan 11 19:31	24°♋58'53	1°29'34	minimum elong	9472 Dec 24 23:58	8°♋14'22	2°40'26
asc. node	9472 Jan 16 06:10	20°♋52'57		morning rise	9472 Dec 31 22:08	3°♋21'02	
morning rise	9472 Jan 18 07:19	19°♋43'11		asc. node	9473 Jan 02 03:15	3°♋03'06	
direct	9472 Jan 20 19:05	19°♋11'47		direct	9473 Jan 03 04:19	2°♋58'08	
morning max el	9472 Jan 27 05:53	22°♋33'14	17°51'20	morning max el	9473 Jan 09 23:00	6°♋25'22	17°48'24
	9472 Feb 02 02:46	0°♊			9473 Jan 25 06:13	0°♋	
morning set	9472 Feb 13 04:18	18°♊06'56		morning set	9473 Jan 25 19:55	1°♊00'54	
desc. node	9472 Feb 19 10:28	28°♊37'13		desc. node	9473 Feb 05 07:19	19°♊17'39	
	9472 Feb 20 06:26	0°♑					
superior conj	9472 Feb 26 10:19	10°♑04'03	-0°49'55	superior conj	9473 Feb 06 05:06	20°♊49'45	-0°06'47
minimum elong	9472 Feb 26 04:45	9°♑41'37	0°49'01	minimum elong	9473 Feb 06 04:27	20°♊47'03	0°06'28
max. Earth dist.	9472 Mar 02 11:36	18°♑08'02	1.44966 AU	behind sun begin	9473 Feb 05 20:15	20°♊12'26	
	9472 Mar 10 01:52	0°♑		behind sun end	9473 Feb 06 12:39	21°♊21'36	
evening rise	9472 Mar 13 06:52	4°♑56'28			9473 Feb 11 17:53	0°♑	
	9472 Mar 30 00:51	0°♐		max. Earth dist.	9473 Feb 13 03:46	2°♑17'29	1.43697 AU
evening max el	9472 Apr 09 17:40	13°♐39'19	20°14'38	evening rise	9473 Feb 20 20:19	14°♑27'24	
asc. node	9472 Apr 13 04:39	16°♐37'14			9473 Mar 03 02:32	0°♑	
retrograde	9472 Apr 17 13:42	18°♐11'52		evening max el	9473 Mar 23 15:26	27°♑20'43	21°24'18
evening set	9472 Apr 21 11:38	16°♐43'15			9473 Mar 26 13:42	0°♐	
inferior conj	9472 Apr 26 19:14	10°♐39'07	3°13'16	asc. node	9473 Mar 31 01:48	2°♐23'56	
minimum elong	9472 Apr 26 18:06	10°♐42'59	3°12'57	retrograde	9473 Apr 01 12:01	2°♐34'07	
min. Earth dist.	9472 Apr 27 14:26	9°♐33'44	0.67760 AU	evening set	9473 Apr 05 19:55	0°♐50'15	
morning rise	9472 May 02 00:19	4°♐21'27			9473 Apr 06 18:25	30°♐♑	
direct	9472 May 07 16:50	1°♐49'24		inferior conj	9473 Apr 11 02:57	24°♑34'52	2°55'08
desc. node	9472 May 17 10:39	7°♐00'58		minimum elong	9473 Apr 11 01:05	24°♑41'21	2°54'40
morning max el	9472 May 19 04:41	8°♐42'48	24°35'30	min. Earth dist.	9473 Apr 11 08:57	24°♑13'59	0.68371 AU
	9472 Jun 04 22:03	0°♑		morning rise	9473 Apr 16 06:04	18°♑20'50	
	9472 Jun 23 16:45	0°♐		direct	9473 Apr 21 09:11	16°♑06'22	
morning set	9472 Jun 24 00:45	0°♐35'04		morning max el	9473 May 01 14:27	22°♑10'31	23°05'39
max. Earth dist.	9472 Jun 27 15:41	7°♐03'13	1.37442 AU	desc. node	9473 May 04 07:34	25°♑05'14	
					9473 May 08 09:39	0°♐	
superior conj	9472 Jul 04 12:08	19°♐55'57	-0°53'10		9473 May 29 05:22	0°♑	
minimum elong	9472 Jul 04 15:31	20°♐12'24	0°52'53	morning set	9473 Jun 05 05:11	11°♑19'46	
	9472 Jul 09 14:40	0°♑		max. Earth dist.	9473 Jun 09 11:50	18°♑34'45	1.39711 AU
asc. node	9472 Jul 10 03:40	1°♑04'57			9473 Jun 15 22:26	0°♐	
evening rise	9472 Jul 13 02:02	6°♑56'44		superior conj	9473 Jun 17 05:04	2°♐20'13	-1°25'07
	9472 Jul 26 03:59	0°♑		minimum elong	9473 Jun 17 10:30	2°♐45'13	1°24'42
evening max el	9472 Jul 29 19:53	4°♑17'29	19°18'03	evening rise	9473 Jun 26 20:03	20°♐33'00	
retrograde	9472 Aug 08 02:44	8°♑53'41		asc. node	9473 Jun 27 00:38	20°♐54'56	
evening set	9472 Aug 09 23:07	8°♑43'30			9473 Jul 01 20:15	0°♑	
desc. node	9472 Aug 13 09:36	7°♑35'48		evening max el	9473 Jul 12 21:59	16°♑29'30	18°33'50
inferior conj	9472 Aug 18 13:17	4°♑34'31	-1°35'31	retrograde	9473 Jul 20 18:50	20°♑25'01	
minimum elong	9472 Aug 18 09:02	4°♑41'32	1°34'01	evening set	9473 Jul 22 20:26	20°♑09'39	
min. Earth dist.	9472 Aug 21 04:50	2°♑49'59	0.55855 AU	inferior conj	9473 Jul 30 15:22	15°♑41'49	0°11'39
morning rise	9472 Aug 26 16:09	29°♑56'01		minimum elong	9473 Jul 30 15:48	15°♑40'59	0°11'15
	9472 Aug 26 12:00	30°♑♒		transit middle	9473 Jul 30 15:48	15°♑40'59	0°11'15
direct	9472 Aug 31 18:16	28°♑56'50		transit begin	9473 Jul 30 13:13	15°♑45'58	
	9472 Sep 06 00:07	0°♑		transit end	9473 Jul 30 18:23	15°♑36'00	
morning max el	9472 Sep 14 20:45	6°♑05'03	25°24'35	desc. node	9473 Jul 31 06:46	15°♑12'00	
	9472 Oct 02 05:23	0°♑		min. Earth dist.	9473 Aug 02 22:33	13°♑10'14	0.57623 AU
asc. node	9472 Oct 06 03:41	7°♑18'25		morning rise	9473 Aug 07 07:37	10°♑26'19	
morning set	9472 Oct 11 19:23	18°♑52'26		direct	9473 Aug 13 04:39	8°♑59'04	

morning max el	9473 Aug 27 13:06	16° Ω 34'33	26°49'20		9474 Aug 11 17:18	0° Ω	
	9473 Sep 07 13:31	0° \mathbb{M}			9474 Sep 01 06:46	0° \mathbb{M}	
asc. node	9473 Sep 23 00:34	26° \mathbb{M} 52'58		asc. node	9474 Sep 09 21:27	16° \mathbb{M} 42'39	
	9473 Sep 24 13:03	0° $\underline{\Omega}$		morning set	9474 Sep 10 11:27	17° \mathbb{M} 55'34	
morning set	9473 Sep 26 05:09	3° $\underline{\Omega}$ 30'29			9474 Sep 16 01:45	0° $\underline{\Omega}$	
				max. Earth dist.	9474 Sep 16 18:20	1° $\underline{\Omega}$ 31'35	1.31578 AU
superior conj	9473 Oct 03 03:17	18° $\underline{\Omega}$ 40'03	1°26'10				
minimum elong	9473 Oct 03 01:19	18° $\underline{\Omega}$ 29'05	1°26'02	superior conj	9474 Sep 17 14:48	3° $\underline{\Omega}$ 25'00	1°10'56
max. Earth dist.	9473 Oct 03 08:41	19° $\underline{\Omega}$ 10'02	1.31624 AU	minimum elong	9474 Sep 17 12:33	3° $\underline{\Omega}$ 12'33	1°10'35
	9473 Oct 08 06:53	0° \mathbb{M}		evening rise	9474 Sep 24 08:22	18° $\underline{\Omega}$ 12'48	
evening rise	9473 Oct 09 23:17	3° \mathbb{M} 35'59			9474 Sep 30 02:10	0° \mathbb{M}	
	9473 Oct 24 00:20	0° \mathbb{X}		desc. node	9474 Oct 14 02:12	23° \mathbb{M} 12'56	
desc. node	9473 Oct 27 05:03	5° \mathbb{X} 00'09			9474 Oct 19 15:06	0° \mathbb{X}	
evening max el	9473 Nov 09 11:36	21° \mathbb{X} 26'23	26°56'59	evening max el	9474 Oct 22 08:38	2° \mathbb{X} 47'09	25°53'15
retrograde	9473 Nov 23 09:40	28° \mathbb{X} 36'08		retrograde	9474 Nov 05 06:31	9° \mathbb{X} 49'27	
evening set	9473 Nov 30 06:56	26° \mathbb{X} 33'37		evening set	9474 Nov 11 13:11	8° \mathbb{X} 16'47	
min. Earth dist.	9473 Dec 04 02:08	23° \mathbb{X} 54'17	0.60269 AU	min. Earth dist.	9474 Nov 15 21:18	5° \mathbb{X} 41'15	0.58188 AU
inferior conj	9473 Dec 07 06:02	21° \mathbb{X} 17'55	-3°55'02	inferior conj	9474 Nov 18 23:19	3° \mathbb{X} 29'00	-4°58'27
minimum elong	9473 Dec 07 13:22	21° \mathbb{X} 02'47	3°52'27	minimum elong	9474 Nov 19 06:31	3° \mathbb{X} 16'03	4°56'42
morning rise	9473 Dec 14 22:19	16° \mathbb{X} 32'16			9474 Nov 24 13:17	30° \mathbb{R} \mathbb{M}	
direct	9473 Dec 17 02:14	16° \mathbb{X} 14'16		morning rise	9474 Nov 27 02:12	29° \mathbb{M} 05'51	
asc. node	9473 Dec 20 00:18	16° \mathbb{X} 48'37		direct	9474 Nov 29 08:32	28° \mathbb{M} 49'23	
morning max el	9473 Dec 24 12:41	19° \mathbb{X} 56'18	18°04'16		9474 Dec 03 21:31	0° \mathbb{X}	
	9473 Dec 31 23:21	0° \mathbb{Z}		asc. node	9474 Dec 06 21:21	2° \mathbb{X} 05'00	
morning set	9474 Jan 09 04:09	14° \mathbb{Z} 41'28		morning max el	9474 Dec 07 19:10	2° \mathbb{X} 55'01	18°40'41
	9474 Jan 17 11:36	0° \approx		morning set	9474 Dec 23 23:49	28° \mathbb{X} 52'57	
					9474 Dec 24 13:36	0° \mathbb{Z}	
superior conj	9474 Jan 19 00:39	2° \approx 45'47	0°31'02				
minimum elong	9474 Jan 19 03:01	2° \approx 56'16	0°30'57	superior conj	9475 Jan 01 16:52	15° \mathbb{Z} 39'53	1°00'38
desc. node	9474 Jan 23 04:12	10° \approx 01'18		minimum elong	9475 Jan 01 20:07	15° \mathbb{Z} 55'06	1°00'32
max. Earth dist.	9474 Jan 26 15:36	15° \approx 54'55	1.41906 AU	max. Earth dist.	9475 Jan 08 23:25	28° \mathbb{Z} 52'07	1.39797 AU
evening rise	9474 Feb 01 00:05	24° \approx 40'51			9475 Jan 09 14:58	0° \approx	
	9474 Feb 04 08:39	0° \mathbb{X}		desc. node	9475 Jan 10 01:08	0° \approx 44'07	
	9474 Feb 25 00:27	0° \mathbb{Y}		evening rise	9475 Jan 13 00:49	5° \approx 50'11	
evening max el	9474 Mar 06 08:40	11° \mathbb{Y} 04'48	22°42'07		9475 Jan 28 11:05	0° \mathbb{X}	
retrograde	9474 Mar 16 08:26	16° \mathbb{Y} 59'39		evening max el	9475 Feb 16 23:02	24° \mathbb{X} 51'36	24°02'23
asc. node	9474 Mar 17 22:58	16° \mathbb{Y} 46'55			9475 Feb 23 09:29	0° \mathbb{Y}	
evening set	9474 Mar 21 03:28	15° \mathbb{Y} 00'52		retrograde	9475 Feb 28 01:35	1° \mathbb{Y} 23'10	
inferior conj	9474 Mar 26 11:53	8° \mathbb{Y} 37'11	2°27'15		9475 Mar 04 06:45	30° \mathbb{R} \mathbb{X}	
minimum elong	9474 Mar 26 09:41	8° \mathbb{Y} 44'49	2°26'38	asc. node	9475 Mar 04 20:09	29° \mathbb{X} 35'52	
min. Earth dist.	9474 Mar 26 05:32	8° \mathbb{Y} 59'11	0.68543 AU	evening set	9475 Mar 05 08:42	29° \mathbb{X} 10'28	
morning rise	9474 Mar 31 15:45	2° \mathbb{Y} 28'20		min. Earth dist.	9475 Mar 10 01:56	23° \mathbb{X} 43'39	0.68293 AU
direct	9474 Apr 05 05:12	0° \mathbb{Y} 35'03		inferior conj	9475 Mar 10 20:07	22° \mathbb{X} 42'03	1°50'17
morning max el	9474 Apr 14 03:47	5° \mathbb{Y} 47'04	21°38'47	minimum elong	9475 Mar 10 18:01	22° \mathbb{X} 49'10	1°49'39
desc. node	9474 Apr 21 04:26	13° \mathbb{Y} 59'07		morning rise	9475 Mar 16 03:21	16° \mathbb{X} 39'47	
	9474 May 02 15:54	0° \mathbb{Z}		direct	9475 Mar 20 03:31	15° \mathbb{X} 08'42	
morning set	9474 May 16 06:38	20° \mathbb{Z} 50'19		morning max el	9475 Mar 27 23:55	19° \mathbb{X} 35'17	20°21'45
	9474 May 21 22:26	0° \mathbb{H}			9475 Apr 05 13:21	0° \mathbb{Y}	
max. Earth dist.	9474 May 22 12:30	0° \mathbb{H} 58'06	1.41904 AU	desc. node	9475 Apr 08 01:19	3° \mathbb{Y} 28'32	
				morning set	9475 Apr 25 09:48	29° \mathbb{Y} 22'53	
superior conj	9474 May 30 02:40	13° \mathbb{H} 51'00	-1°52'32		9475 Apr 25 19:24	0° \mathbb{Z}	
minimum elong	9474 May 30 08:45	14° \mathbb{H} 17'28	1°52'18	max. Earth dist.	9475 May 04 20:39	14° \mathbb{Z} 15'51	1.43736 AU
	9474 Jun 08 03:18	0° \mathbb{E}					
evening rise	9474 Jun 10 01:56	3° \mathbb{E} 33'23		superior conj	9475 May 11 00:42	24° \mathbb{Z} 18'53	-2°09'49
asc. node	9474 Jun 13 21:38	10° \mathbb{E} 31'10		minimum elong	9475 May 11 04:02	24° \mathbb{Z} 32'41	2°09'57
evening max el	9474 Jun 26 07:31	29° \mathbb{E} 16'01	18°09'54		9475 May 14 10:29	0° \mathbb{H}	
	9474 Jun 27 02:20	0° Ω		evening rise	9475 May 23 15:03	15° \mathbb{H} 46'52	
retrograde	9474 Jul 03 05:34	2° Ω 46'15		asc. node	9475 May 31 18:42	29° \mathbb{H} 47'57	
evening set	9474 Jul 05 14:52	2° Ω 21'46			9475 May 31 21:37	0° \mathbb{E}	
	9474 Jul 09 17:45	30° \mathbb{R} \mathbb{E}		evening max el	9475 Jun 09 20:37	12° \mathbb{E} 27'00	18°05'26
inferior conj	9474 Jul 12 14:56	27° \mathbb{E} 33'10	1°34'36	retrograde	9475 Jun 16 07:23	15° \mathbb{E} 47'41	
minimum elong	9474 Jul 12 17:35	27° \mathbb{E} 27'12	1°33'26	evening set	9475 Jun 19 00:19	15° \mathbb{E} 11'26	
min. Earth dist.	9474 Jul 15 22:57	24° \mathbb{E} 34'35	0.59805 AU	inferior conj	9475 Jun 25 08:56	10° \mathbb{E} 03'15	2°30'51
desc. node	9474 Jul 18 03:53	22° \mathbb{E} 49'41		minimum elong	9475 Jun 25 11:43	9° \mathbb{E} 56'04	2°29'51
morning rise	9474 Jul 19 17:19	21° \mathbb{E} 47'34		min. Earth dist.	9475 Jun 28 07:59	7° \mathbb{E} 01'14	0.62058 AU
direct	9474 Jul 26 04:06	19° \mathbb{E} 49'55		morning rise	9475 Jul 01 21:05	3° \mathbb{E} 57'52	
morning max el	9474 Aug 09 12:18	27° \mathbb{E} 42'32	27°41'51	desc. node	9475 Jul 05 00:58	2° \mathbb{E} 13'58	

direct	9475 Jul 08 14:13	1°☿34'13		desc. node	9476 Jun 20 22:03	14°♄07'50	
morning max el	9475 Jul 22 17:55	9°☿35'50	27°56'16	morning max el	9476 Jul 04 03:29	22°♄08'00	27°33'41
	9475 Aug 07 13:47	0°♄			9476 Jul 11 00:53	0°☿	
	9475 Aug 24 12:07	0°♄			9476 Jul 30 18:57	0°♄	
morning set	9475 Aug 25 12:19	2°♄02'40		morning set	9476 Aug 08 05:14	15°♄44'06	
asc. node	9475 Aug 27 18:21	6°♄42'29		max. Earth dist.	9476 Aug 13 00:50	25°♄31'47	1.32933 AU
max. Earth dist.	9475 Aug 31 01:04	13°♄42'44	1.32011 AU	asc. node	9476 Aug 13 15:15	26°♄47'14	
					9476 Aug 15 03:43	0°♄	
superior conj	9475 Sep 02 00:24	18°♄00'48	0°50'45				
minimum elong	9475 Sep 01 22:23	17°♄49'44	0°50'17	superior conj	9476 Aug 16 06:05	2°♄20'45	0°26'00
	9475 Sep 07 11:31	0°♄		minimum elong	9476 Aug 16 04:51	2°♄14'09	0°25'34
evening rise	9475 Sep 08 19:37	2°♄53'19		evening rise	9476 Aug 23 07:04	17°♄30'51	
	9475 Sep 23 07:02	0°♄			9476 Aug 29 10:06	0°♄	
desc. node	9475 Sep 30 23:22	10°♄16'01		evening max el	9476 Sep 14 09:02	23°♄29'59	22°43'49
evening max el	9475 Oct 03 21:57	13°♄20'31	24°23'47	desc. node	9476 Sep 16 20:34	25°♄42'30	
retrograde	9475 Oct 17 15:41	20°♄14'06			9476 Sep 26 05:55	0°♄	
evening set	9475 Oct 22 19:01	19°♄15'43		retrograde	9476 Sep 27 12:49	0°♄03'47	
min. Earth dist.	9475 Oct 28 08:49	16°♄25'20	0.56357 AU		9476 Sep 28 19:59	30°♄	
inferior conj	9475 Oct 30 20:14	14°♄52'31	-5°37'01	evening set	9476 Oct 01 04:01	29°♄34'50	
minimum elong	9475 Oct 30 23:05	14°♄48'03	5°36'38	min. Earth dist.	9476 Oct 08 16:55	26°♄11'39	0.55082 AU
morning rise	9475 Nov 08 05:15	10°♄51'13		inferior conj	9476 Oct 09 22:32	25°♄29'24	-5°30'31
direct	9475 Nov 10 19:45	10°♄33'08		minimum elong	9476 Oct 09 17:33	25°♄36'31	5°29'52
morning max el	9475 Nov 20 14:53	15°♄11'46	19°39'18	morning rise	9476 Oct 18 08:58	21°♄41'09	
asc. node	9475 Nov 23 18:21	18°♄38'36		direct	9476 Oct 21 12:34	21°♄18'20	
	9475 Dec 01 04:10	0°♄		morning max el	9476 Nov 01 21:27	26°♄38'54	21°00'17
morning set	9475 Dec 08 03:10	13°♄24'25			9476 Nov 05 01:11	0°♄	
				asc. node	9476 Nov 09 15:19	6°♄13'06	
superior conj	9475 Dec 16 00:46	29°♄18'11	1°21'37	morning set	9476 Nov 21 11:22	28°♄07'05	
minimum elong	9475 Dec 16 03:33	29°♄31'55	1°21'40		9476 Nov 22 09:05	0°♄	
	9475 Dec 16 09:15	0°♄					
max. Earth dist.	9475 Dec 22 05:31	11°♄10'17	1.37610 AU	superior conj	9476 Nov 28 19:54	13°♄27'25	1°34'33
evening rise	9475 Dec 25 22:47	17°♄55'00		minimum elong	9476 Nov 28 21:35	13°♄36'07	1°34'44
desc. node	9475 Dec 27 22:07	21°♄22'36		max. Earth dist.	9476 Dec 03 14:31	23°♄04'44	1.35586 AU
	9476 Jan 02 01:00	0°♄			9476 Dec 07 04:55	0°♄	
	9476 Jan 22 18:52	0°♄		evening rise	9476 Dec 07 15:01	0°♄47'18	
evening max el	9476 Jan 30 12:16	8°♄40'09	25°18'27	desc. node	9476 Dec 13 19:09	11°♄52'07	
retrograde	9476 Feb 11 14:31	15°♄39'40			9476 Dec 25 03:36	0°♄	
evening set	9476 Feb 17 10:05	13°♄15'10		evening max el	9477 Jan 12 01:29	22°♄26'11	26°23'15
asc. node	9476 Feb 19 17:19	10°♄57'36		retrograde	9477 Jan 24 22:29	29°♄42'32	
min. Earth dist.	9476 Feb 21 19:56	8°♄23'11	0.67635 AU	evening set	9477 Jan 31 05:53	27°♄10'02	
inferior conj	9476 Feb 23 01:47	6°♄46'28	1°04'33	min. Earth dist.	9477 Feb 04 09:23	22°♄52'32	0.66586 AU
minimum elong	9476 Feb 23 00:18	6°♄51'17	1°04'08	asc. node	9477 Feb 05 14:27	21°♄24'29	
morning rise	9476 Feb 28 14:54	0°♄52'17		inferior conj	9477 Feb 06 02:55	20°♄46'27	0°10'18
	9476 Mar 01 08:16	30°♄		minimum elong	9477 Feb 06 02:38	20°♄47'18	0°10'25
direct	9476 Mar 03 02:47	29°♄42'06		transit middle	9477 Feb 06 02:38	20°♄47'18	0°10'25
	9476 Mar 04 22:30	0°♄		transit begin	9477 Feb 06 00:27	20°♄54'00	
morning max el	9476 Mar 10 04:03	3°♄35'15	19°18'38	transit end	9477 Feb 06 04:50	20°♄40'37	
greatest brilliancy	9476 Mar 23 01:48	20°♄37'45	-0.7m	morning rise	9477 Feb 12 00:16	15°♄02'13	
desc. node	9476 Mar 24 22:11	23°♄24'07		direct	9477 Feb 15 01:17	14°♄10'03	
	9476 Mar 29 06:19	0°♄		morning max el	9477 Feb 21 15:08	17°♄42'27	18°31'28
morning set	9476 Apr 03 09:39	7°♄54'05			9477 Mar 03 00:34	0°♄	
max. Earth dist.	9476 Apr 16 11:07	28°♄14'42	1.44999 AU	desc. node	9477 Mar 11 19:03	13°♄38'52	
	9476 Apr 17 13:48	0°♄		morning set	9477 Mar 14 05:10	17°♄28'34	
					9477 Mar 22 03:51	0°♄	
superior conj	9476 Apr 19 22:47	3°♄45'51	-2°10'32				
minimum elong	9476 Apr 19 19:24	3°♄32'24	2°10'37	superior conj	9477 Mar 30 05:45	12°♄39'18	-1°51'01
evening rise	9476 May 04 06:46	27°♄03'41		minimum elong	9477 Mar 29 20:39	12°♄03'42	1°50'20
	9476 May 06 01:18	0°♄		max. Earth dist.	9477 Mar 30 05:23	12°♄37'53	1.45566 AU
asc. node	9476 May 17 15:48	18°♄38'03			9477 Apr 10 06:58	0°♄	
evening max el	9476 May 23 09:57	25°♄53'18	18°19'36	evening rise	9477 Apr 14 22:44	7°♄22'08	
retrograde	9476 May 29 19:29	29°♄18'42		greatest brilliancy	9477 Apr 23 20:58	21°♄29'50	-0.8m
evening set	9476 Jun 01 19:56	28°♄28'56			9477 Apr 29 10:54	0°♄	
inferior conj	9476 Jun 07 17:08	23°♄03'06	3°04'03	asc. node	9477 May 04 12:54	6°♄53'06	
minimum elong	9476 Jun 07 18:59	22°♄57'45	3°03'27	evening max el	9477 May 06 20:53	9°♄28'53	18°51'35
min. Earth dist.	9476 Jun 10 02:31	20°♄18'27	0.64136 AU	retrograde	9477 May 13 13:56	13°♄11'41	
morning rise	9476 Jun 13 16:51	16°♄47'17		evening set	9477 May 16 22:09	12°♄07'19	
direct	9476 Jun 20 09:16	14°♄06'53		inferior conj	9477 May 22 11:40	6°♄25'32	3°18'45

minimum elong	9477 May 22 12:16	6° Π 23'38	3°18'27	asc. node	9478 Apr 21 10:02	24° \mathcal{B} 21'29	
min. Earth dist.	9477 May 24 05:56	4° Π 13'16	0.65883 AU	retrograde	9478 Apr 27 11:36	27° \mathcal{B} 19'52	
morning rise	9477 May 28 01:45	0° Π 06'02		evening set	9478 May 01 04:17	26° \mathcal{B} 00'12	
	9477 May 28 04:33	30° \mathcal{R} 8		inferior conj	9478 May 06 13:17	20° \mathcal{B} 03'55	3°18'48
direct	9477 Jun 03 11:53	27° \mathcal{B} 20'28		minimum elong	9478 May 06 12:43	20° \mathcal{B} 05'49	3°18'32
desc. node	9477 Jun 07 19:04	28° \mathcal{B} 22'16		min. Earth dist.	9478 May 07 16:41	18° \mathcal{B} 32'52	0.67211 AU
	9477 Jun 10 15:18	0° Π		morning rise	9478 May 11 20:49	13° \mathcal{B} 44'58	
morning max el	9477 Jun 16 14:10	5° Π 07'27	26°40'13	direct	9478 May 17 20:36	11° \mathcal{B} 05'15	
	9477 Jul 05 14:21	0° \mathcal{E}		desc. node	9478 May 25 16:03	14° \mathcal{B} 27'30	
morning set	9477 Jul 22 11:05	28° \mathcal{E} 51'41		morning max el	9478 May 29 23:59	18° \mathcal{B} 21'57	25°24'47
	9477 Jul 23 01:28	0° \mathcal{O}			9478 Jun 08 19:02	0° Π	
max. Earth dist.	9477 Jul 26 14:23	6° \mathcal{O} 53'39	1.34349 AU		9478 Jun 28 15:21	0° \mathcal{E}	
				morning set	9478 Jul 05 01:47	11° \mathcal{E} 13'59	
superior conj	9477 Jul 31 05:35	16° \mathcal{O} 19'00	-0°02'45	max. Earth dist.	9478 Jul 08 17:25	17° \mathcal{E} 57'38	1.36219 AU
minimum elong	9477 Jul 31 05:45	16° \mathcal{O} 19'51	0°02'58				
behind sun begin	9477 Jul 31 00:02	15° \mathcal{O} 50'13		superior conj	9478 Jul 14 20:07	29° \mathcal{E} 47'55	-0°34'21
behind sun end	9477 Jul 31 11:28	16° \mathcal{O} 49'31		minimum elong	9478 Jul 14 22:13	29° \mathcal{E} 58'26	0°34'14
asc. node	9477 Jul 31 12:10	16° \mathcal{O} 53'11			9478 Jul 14 22:32	0° \mathcal{O}	
	9477 Aug 06 17:51	0° \mathcal{M}		asc. node	9478 Jul 18 09:07	6° \mathcal{O} 56'08	
evening rise	9477 Aug 07 16:47	2° \mathcal{M} 00'07		evening rise	9478 Jul 22 22:35	16° \mathcal{O} 14'41	
	9477 Aug 23 16:08	0° \mathcal{E}			9478 Jul 30 00:18	0° \mathcal{M}	
evening max el	9477 Aug 27 03:18	3° \mathcal{E} 53'17	21°09'59	evening max el	9478 Aug 09 10:31	14° \mathcal{M} 56'06	19°52'57
desc. node	9477 Sep 03 17:44	9° \mathcal{E} 01'44		retrograde	9478 Aug 19 16:04	19° \mathcal{M} 59'56	
retrograde	9477 Sep 08 01:18	9° \mathcal{E} 47'45		evening set	9478 Aug 21 13:09	19° \mathcal{M} 50'27	
evening set	9477 Sep 10 10:37	9° \mathcal{E} 34'27		desc. node	9478 Aug 21 14:53	19° \mathcal{M} 49'43	
inferior conj	9477 Sep 19 15:06	5° \mathcal{E} 38'12	-4°27'34	inferior conj	9478 Aug 30 12:07	15° \mathcal{M} 49'45	-2°42'23
minimum elong	9477 Sep 19 05:24	5° \mathcal{E} 51'51	4°25'02	minimum elong	9478 Aug 30 04:48	16° \mathcal{M} 00'53	2°39'49
min. Earth dist.	9477 Sep 20 01:16	5° \mathcal{E} 23'51	0.54645 AU	min. Earth dist.	9478 Sep 01 11:43	14° \mathcal{M} 37'18	0.55162 AU
morning rise	9477 Sep 28 00:39	1° \mathcal{E} 45'01		morning rise	9478 Sep 07 18:47	11° \mathcal{M} 32'05	
direct	9477 Oct 01 20:50	1° \mathcal{E} 13'14		direct	9478 Sep 12 09:54	10° \mathcal{M} 45'07	
morning max el	9477 Oct 14 15:53	7° \mathcal{E} 19'37	22°39'31	morning max el	9478 Sep 26 03:57	17° \mathcal{M} 32'42	24°26'15
asc. node	9477 Oct 27 12:14	24° \mathcal{E} 34'42			9478 Oct 06 08:27	0° \mathcal{E}	
	9477 Oct 30 12:14	0° \mathcal{M}		asc. node	9478 Oct 14 09:09	13° \mathcal{E} 32'04	
morning set	9477 Nov 05 22:14	12° \mathcal{M} 55'04		morning set	9478 Oct 21 10:01	27° \mathcal{E} 43'36	
					9478 Oct 22 11:27	0° \mathcal{M}	
superior conj	9477 Nov 12 22:48	27° \mathcal{M} 57'33	1°40'12	superior conj	9478 Oct 28 06:48	12° \mathcal{M} 40'42	1°39'20
minimum elong	9477 Nov 12 23:14	27° \mathcal{M} 59'49	1°40'27	minimum elong	9478 Oct 28 06:05	12° \mathcal{M} 36'43	1°39'31
	9477 Nov 13 21:52	0° \mathcal{X}		max. Earth dist.	9478 Oct 30 07:29	17° \mathcal{M} 05'03	1.32659 AU
max. Earth dist.	9477 Nov 16 06:48	4° \mathcal{X} 58'20	1.33908 AU	evening rise	9478 Nov 04 15:25	28° \mathcal{M} 17'04	
evening rise	9477 Nov 20 21:45	14° \mathcal{X} 17'41			9478 Nov 05 11:47	0° \mathcal{X}	
	9477 Nov 29 10:22	0° \mathcal{Z}		desc. node	9478 Nov 17 13:14	22° \mathcal{X} 02'27	
desc. node	9477 Nov 30 16:11	2° \mathcal{Z} 07'29			9478 Nov 22 14:52	0° \mathcal{Z}	
	9477 Dec 19 23:34	0° \approx		evening max el	9478 Dec 08 02:41	19° \mathcal{Z} 15'23	27°29'43
evening max el	9477 Dec 25 14:44	6° \approx 01'39	27°09'22	retrograde	9478 Dec 21 19:42	26° \mathcal{Z} 34'33	
retrograde	9478 Jan 08 00:29	13° \approx 23'31		evening set	9478 Dec 28 19:51	24° \mathcal{Z} 04'49	
evening set	9478 Jan 14 17:58	10° \approx 48'42		min. Earth dist.	9479 Jan 01 13:53	20° \mathcal{Z} 51'46	0.63455 AU
min. Earth dist.	9478 Jan 18 16:05	7° \approx 04'43	0.65178 AU	inferior conj	9479 Jan 04 06:04	18° \mathcal{Z} 10'31	-2°01'02
inferior conj	9478 Jan 20 21:13	4° \approx 36'29	-0°52'01	minimum elong	9479 Jan 04 09:57	18° \mathcal{Z} 00'45	1°59'09
minimum elong	9478 Jan 20 22:46	4° \approx 32'11	0°51'05	asc. node	9479 Jan 10 08:39	13° \mathcal{Z} 12'45	
asc. node	9478 Jan 23 11:34	1° \approx 50'49		morning rise	9479 Jan 11 02:01	12° \mathcal{Z} 53'59	
	9478 Jan 25 15:36	30° \mathcal{R} 3		direct	9479 Jan 13 11:07	12° \mathcal{Z} 26'35	
morning rise	9478 Jan 27 04:59	29° \mathcal{Z} 04'35		morning max el	9479 Jan 20 00:18	15° \mathcal{Z} 49'29	17°47'52
direct	9478 Jan 29 20:57	28° \mathcal{Z} 26'43			9479 Jan 30 01:18	0° \approx	
	9478 Feb 03 03:15	0° \approx		morning set	9479 Feb 05 09:21	10° \approx 50'06	
morning max el	9478 Feb 05 06:49	1° \approx 49'31	18°01'02	desc. node	9479 Feb 13 12:46	24° \approx 43'57	
morning set	9478 Feb 23 05:58	28° \approx 30'38			9479 Feb 16 16:44	0° \mathcal{X}	
	9478 Feb 24 03:42	0° \mathcal{X}					
desc. node	9478 Feb 26 15:54	4° \mathcal{X} 06'50		superior conj	9479 Feb 17 19:30	1° \mathcal{X} 50'11	-0°31'17
				minimum elong	9479 Feb 17 16:10	1° \mathcal{X} 36'28	0°30'38
superior conj	9478 Mar 09 15:09	21° \mathcal{X} 46'17	-1°14'43	max. Earth dist.	9479 Feb 23 19:37	11° \mathcal{X} 32'44	1.44504 AU
minimum elong	9478 Mar 09 06:53	21° \mathcal{X} 13'33	1°13'39	evening rise	9479 Mar 05 05:48	26° \mathcal{X} 16'48	
max. Earth dist.	9478 Mar 13 00:59	27° \mathcal{X} 08'50	1.45393 AU		9479 Mar 07 16:09	0° \mathcal{Y}	
	9478 Mar 14 20:40	0° \mathcal{Y}			9479 Mar 28 09:02	0° \mathcal{B}	
evening rise	9478 Mar 25 18:27	16° \mathcal{Y} 55'28		evening max el	9479 Apr 03 04:28	6° \mathcal{B} 49'37	20°42'57
	9478 Apr 03 07:01	0° \mathcal{B}		asc. node	9479 Apr 08 07:10	10° \mathcal{B} 49'46	
greatest brilliancy	9478 Apr 08 10:54	7° \mathcal{B} 45'46	-0.7m	retrograde	9479 Apr 11 10:12	11° \mathcal{B} 38'26	
evening max el	9478 Apr 20 03:24	23° \mathcal{B} 08'27	19°40'07				

evening set	9479 Apr 15 12:19	10°♄03'13	evening rise	9480 Feb 12 23:58	6°♄02'14	
inferior conj	9479 Apr 20 19:26	3°♄54'09 3°06'49		9480 Feb 28 23:14	0°♄	
minimum elong	9479 Apr 20 17:57	3°♄59'17 3°06'26	evening max el	9480 Mar 16 00:06	20°♄31'30	21°56'42
min. Earth dist.	9479 Apr 21 08:53	3°♄07'49 0.68083 AU	retrograde	9480 Mar 25 07:55	26°♄02'40	
	9479 Apr 23 18:07	30°♄	asc. node	9480 Mar 25 04:20	26°♄02'33	
morning rise	9479 Apr 25 23:21	27°♄38'05	evening set	9480 Mar 29 20:31	24°♄12'05	
direct	9479 May 01 10:23	25°♄12'51	inferior conj	9480 Apr 04 03:55	17°♄52'41	2°44'28
	9479 May 10 13:27	0°♄	minimum elong	9480 Apr 04 01:51	17°♄59'51	2°43'55
morning max el	9479 May 12 09:14	1°♄45'26 23°57'26	min. Earth dist.	9480 Apr 04 04:29	17°♄50'41	0.68497 AU
desc. node	9479 May 12 13:00	1°♄55'00	morning rise	9480 Apr 09 07:02	11°♄40'55	
	9479 Jun 02 19:15	0°♄	direct	9480 Apr 14 04:17	9°♄35'25	
morning set	9479 Jun 16 20:17	22°♄38'04	morning max el	9480 Apr 23 20:16	15°♄16'55	22°27'59
max. Earth dist.	9479 Jun 20 14:34	29°♄12'12 1.38407 AU	desc. node	9480 Apr 28 09:55	20°♄22'08	
	9479 Jun 21 01:19	0°♄		9480 May 05 19:28	0°♄	
				9480 May 25 19:06	0°♄	
superior conj	9479 Jun 27 22:10	12°♄38'51 -1°06'59	morning set	9480 May 27 13:32	2°♄51'58	
minimum elong	9479 Jun 28 02:30	12°♄59'23 1°06'36	max. Earth dist.	9480 Jun 01 12:34	11°♄06'25	1.40669 AU
asc. node	9479 Jul 05 06:04	26°♄52'10				
evening rise	9479 Jul 06 21:51	0°♄07'41	superior conj	9480 Jun 09 07:31	24°♄41'56	-1°37'35
	9479 Jul 06 20:17	0°♄	minimum elong	9480 Jun 09 13:30	25°♄08'51	1°37'11
evening max el	9479 Jul 23 06:36	26°♄44'10 18°56'36		9480 Jun 12 05:34	0°♄	
	9479 Jul 27 16:07	0°♄	evening rise	9480 Jun 19 11:19	13°♄30'44	
retrograde	9479 Jul 31 21:32	1°♄01'18	asc. node	9480 Jun 21 03:04	16°♄37'20	
evening set	9479 Aug 02 19:42	0°♄49'21		9480 Jun 28 15:17	0°♄	
	9479 Aug 05 08:34	30°♄	evening max el	9480 Jul 05 12:21	9°♄12'18	18°21'10
desc. node	9479 Aug 08 12:03	28°♄17'12	retrograde	9480 Jul 12 22:14	12°♄55'34	
inferior conj	9479 Aug 11 01:55	26°♄32'30 -0°47'40	evening set	9480 Jul 15 02:54	12°♄36'48	
minimum elong	9479 Aug 10 23:53	26°♄36'03 0°47'04	inferior conj	9480 Jul 22 13:30	7°♄59'51	0°50'09
min. Earth dist.	9479 Aug 14 01:59	24°♄26'22 0.56540 AU	minimum elong	9480 Jul 22 15:10	7°♄56'22	0°49'15
morning rise	9479 Aug 19 00:53	21°♄38'17	desc. node	9480 Jul 25 09:13	5°♄40'12	
direct	9479 Aug 24 11:29	20°♄28'06	min. Earth dist.	9480 Jul 25 22:25	5°♄14'04	0.58517 AU
morning max el	9479 Sep 07 17:17	27°♄48'17 26°03'59	morning rise	9480 Jul 30 00:02	2°♄30'04	
	9479 Sep 09 21:10	0°♄	direct	9480 Aug 05 03:27	0°♄50'05	
	9479 Sep 29 18:07	0°♄	morning max el	9480 Aug 19 12:46	8°♄34'02	27°16'12
asc. node	9479 Oct 01 06:02	2°♄55'18		9480 Sep 04 19:27	0°♄	
morning set	9479 Oct 05 21:00	12°♄27'02	asc. node	9480 Sep 17 02:56	22°♄37'19	
			morning set	9480 Sep 19 05:34	27°♄00'47	
				9480 Sep 20 15:13	0°♄	
superior conj	9479 Oct 12 17:39	27°♄29'11 1°32'33				
minimum elong	9479 Oct 12 16:02	27°♄20'12 1°32'34	superior conj	9480 Sep 26 05:29	12°♄17'23	1°20'19
max. Earth dist.	9479 Oct 13 14:22	29°♄23'49 1.31869 AU	minimum elong	9480 Sep 26 03:20	12°♄05'29	1°20'06
	9479 Oct 13 20:55	0°♄	max. Earth dist.	9480 Sep 26 00:04	11°♄47'19	1.31549 AU
evening rise	9479 Oct 19 16:58	12°♄36'12	evening rise	9480 Oct 02 23:58	27°♄08'27	
	9479 Oct 28 14:57	0°♄		9480 Oct 04 08:27	0°♄	
desc. node	9479 Nov 04 10:19	11°♄27'44	desc. node	9480 Oct 21 07:28	0°♄11'36	
	9479 Nov 18 13:12	0°♄		9480 Oct 21 04:16	0°♄	
evening max el	9479 Nov 20 10:40	1°♄52'30 27°18'39	evening max el	9480 Nov 01 12:03	13°♄41'59	26°33'31
retrograde	9479 Dec 04 07:12	9°♄05'41	retrograde	9480 Nov 15 10:10	20°♄48'58	
evening set	9479 Dec 11 08:13	6°♄50'04	evening set	9480 Nov 22 02:53	18°♄57'46	
min. Earth dist.	9479 Dec 15 01:09	4°♄01'49 0.61479 AU	min. Earth dist.	9480 Nov 26 01:43	16°♄22'26	0.59376 AU
inferior conj	9479 Dec 18 02:15	1°♄19'24 -3°13'46	inferior conj	9480 Nov 29 06:17	13°♄53'59	-4°23'49
minimum elong	9479 Dec 18 08:33	1°♄05'22 3°11'13	minimum elong	9480 Nov 29 13:57	13°♄39'04	4°21'26
	9479 Dec 19 14:33	30°♄	morning rise	9480 Dec 07 03:34	9°♄18'09	
morning rise	9479 Dec 25 11:17	26°♄21'44	direct	9480 Dec 09 07:53	9°♄01'12	
direct	9479 Dec 27 16:11	26°♄01'13	asc. node	9480 Dec 14 02:47	10°♄27'47	
asc. node	9479 Dec 28 05:43	26°♄02'36	morning max el	9480 Dec 17 03:29	12°♄51'47	18°17'11
morning max el	9480 Jan 03 16:21	29°♄33'18 17°52'48		9480 Dec 28 15:46	0°♄	
	9480 Jan 04 02:57	0°♄	morning set	9481 Jan 01 22:18	8°♄00'17	
morning set	9480 Jan 19 08:44	24°♄05'42				
	9480 Jan 22 15:02	0°♄				
			superior conj	9481 Jan 11 06:04	25°♄28'35	0°44'39
superior conj	9480 Jan 30 01:07	13°♄06'20 0°10'10	minimum elong	9481 Jan 11 09:01	25°♄42'00	0°44'32
minimum elong	9480 Jan 30 02:02	13°♄10'18 0°10'17		9481 Jan 13 18:20	0°♄	
behind sun begin	9480 Jan 29 19:32	12°♄42'16	desc. node	9481 Jan 17 06:31	6°♄09'13	
behind sun end	9480 Jan 30 08:31	13°♄38'16	max. Earth dist.	9481 Jan 18 20:15	8°♄50'58	1.41030 AU
desc. node	9480 Jan 31 09:38	15°♄25'50	evening rise	9481 Jan 23 12:10	16°♄37'43	
max. Earth dist.	9480 Feb 06 10:32	25°♄31'27 1.42990 AU		9481 Jan 31 23:16	0°♄	
	9480 Feb 09 04:45	0°♄		9481 Feb 22 17:41	0°♄	

evening max el	9481 Feb 26 15:40	4° Υ 15'28	23°16'23		9482 Jan 25 10:33	0° H	
retrograde	9481 Mar 09 03:13	10° Υ 27'31		evening max el	9482 Feb 09 05:20	18° H 03'22	24°35'46
asc. node	9481 Mar 12 01:31	9° Υ 45'44		retrograde	9482 Feb 20 18:49	24° H 48'40	
evening set	9481 Mar 14 03:17	8° Υ 22'30		evening set	9482 Feb 26 07:05	22° H 30'47	
min. Earth dist.	9481 Mar 19 01:17	2° Υ 35'36	0.68479 AU	asc. node	9482 Feb 26 22:41	21° H 55'42	
inferior conj	9481 Mar 19 12:46	1° Υ 56'01	2°12'40	min. Earth dist.	9482 Mar 02 21:03	17° H 18'33	0.68053 AU
minimum elong	9481 Mar 19 10:33	2° Υ 03'40	2°12'01	inferior conj	9482 Mar 03 20:09	16° H 01'29	1°31'57
	9481 Mar 20 22:53	30° R H		minimum elong	9482 Mar 03 18:15	16° H 07'51	1°31'23
morning rise	9481 Mar 24 17:45	25° H 49'47		morning rise	9482 Mar 09 05:34	10° H 02'11	
direct	9481 Mar 29 01:20	24° H 06'12		direct	9482 Mar 13 00:18	8° H 40'14	
morning max el	9481 Apr 06 12:17	28° H 58'08	21°04'33	morning max el	9482 Mar 20 11:45	12° H 51'28	19°53'01
	9481 Apr 07 12:20	0° Υ		desc. node	9482 Apr 02 03:38	29° H 13'46	
desc. node	9481 Apr 15 06:47	9° Υ 32'10			9482 Apr 02 16:19	0° Υ	
	9481 Apr 29 10:45	0° B		morning set	9482 Apr 16 02:48	20° Υ 16'12	
morning set	9481 May 07 04:09	11° B 53'29			9482 Apr 22 09:11	0° B	
max. Earth dist.	9481 May 14 15:59	23° B 52'00	1.42731 AU	max. Earth dist.	9482 Apr 27 02:32	7° B 27'12	1.44348 AU
	9481 May 18 09:16	0° II					
superior conj	9481 May 21 19:26	5° II 46'02	-2°01'29	superior conj	9482 May 02 06:58	15° B 46'50	-2°12'28
minimum elong	9481 May 22 00:53	6° II 09'13	2°01'25	minimum elong	9482 May 02 07:48	15° B 50'13	2°12'42
evening rise	9481 Jun 02 10:41	26° II 12'21			9482 May 10 21:26	0° II	
	9481 Jun 04 13:29	0° E		evening rise	9482 May 15 15:12	8° II 02'13	
asc. node	9481 Jun 08 00:07	6° E 05'59		asc. node	9482 May 25 21:13	25° II 12'19	
evening max el	9481 Jun 18 23:49	22° E 10'10	18°05'42		9482 May 29 01:48	0° E	
retrograde	9481 Jun 25 15:57	25° E 34'43		evening max el	9482 Jun 02 13:27	5° E 28'46	18°09'17
evening set	9481 Jun 28 04:23	25° E 05'40		retrograde	9482 Jun 08 22:29	8° E 49'31	
inferior conj	9481 Jul 04 21:26	20° E 08'46	2°01'31	evening set	9482 Jun 11 18:39	8° E 07'41	
minimum elong	9481 Jul 05 00:20	20° E 01'50	2°00'21	inferior conj	9482 Jun 17 21:57	2° E 52'05	2°47'24
min. Earth dist.	9481 Jul 08 02:37	17° E 05'34	0.60765 AU	minimum elong	9482 Jun 18 00:25	2° E 45'23	2°46'35
morning rise	9481 Jul 11 17:37	14° E 13'13		min. Earth dist.	9482 Jun 20 15:40	29° II 55'03	0.62979 AU
desc. node	9481 Jul 12 06:21	13° E 53'16			9482 Jun 20 13:45	30° R II	
direct	9481 Jul 18 07:58	12° E 03'21		morning rise	9482 Jun 24 04:32	26° II 41'26	
morning max el	9481 Aug 01 15:02	20° E 01'48	27°52'38	desc. node	9482 Jun 29 03:26	24° II 19'21	
	9481 Aug 10 03:52	0° Ω		direct	9482 Jun 30 22:22	24° II 08'59	
	9481 Aug 28 17:17	0° M			9482 Jul 12 14:55	0° E	
morning set	9481 Sep 03 09:50	11° M 18'58		morning max el	9482 Jul 14 22:27	2° E 11'48	27°50'47
asc. node	9481 Sep 03 23:50	12° M 31'45			9482 Aug 04 11:50	0° Ω	
max. Earth dist.	9481 Sep 09 08:49	24° M 04'54	1.31702 AU	morning set	9482 Aug 18 07:39	25° Ω 15'47	
					9482 Aug 20 15:14	0° M	
superior conj	9481 Sep 10 16:26	26° M 59'08	1°02'58	asc. node	9482 Aug 21 20:44	2° M 34'03	
minimum elong	9481 Sep 10 14:13	26° M 46'55	1°02'33	max. Earth dist.	9482 Aug 23 12:49	6° M 06'27	1.32343 AU
	9481 Sep 12 01:07	0° A					
evening rise	9481 Sep 17 10:12	11° A 47'12		superior conj	9482 Aug 26 00:38	11° M 29'00	0°40'48
	9481 Sep 26 13:32	0° M		minimum elong	9482 Aug 25 22:53	11° M 19'27	0°40'19
desc. node	9481 Oct 08 04:39	17° M 57'34		evening rise	9482 Sep 01 21:45	26° M 27'01	
evening max el	9481 Oct 14 05:25	24° M 40'41	25°17'31		9482 Sep 03 13:56	0° A	
	9481 Oct 21 11:51	0° J		desc. node	9482 Sep 25 01:51	4° M 23'16	
retrograde	9481 Oct 28 02:47	1° J 40'36		evening max el	9482 Sep 25 17:00	5° M 00'35	23°41'32
evening set	9481 Nov 02 23:05	0° J 22'27		retrograde	9482 Oct 09 06:34	11° M 47'11	
	9481 Nov 03 18:42	30° R M		evening set	9482 Oct 13 18:45	11° M 02'52	
min. Earth dist.	9481 Nov 07 17:26	27° M 42'42	0.57358 AU	min. Earth dist.	9482 Oct 20 03:17	8° M 00'22	0.55729 AU
inferior conj	9481 Nov 10 15:01	25° M 45'22	-5°19'05	inferior conj	9482 Oct 22 03:29	6° M 48'24	-5°40'53
minimum elong	9481 Nov 10 20:59	25° M 35'16	5°17'56	minimum elong	9482 Oct 22 03:09	6° M 48'55	5°40'42
morning rise	9481 Nov 18 21:12	21° M 32'00		morning rise	9482 Oct 30 13:30	2° M 53'50	
direct	9481 Nov 21 06:02	21° M 15'23		direct	9482 Nov 02 09:05	2° M 34'04	
morning max el	9481 Nov 30 05:54	25° M 34'15	19°02'50	morning max el	9482 Nov 12 20:06	7° M 30'07	20°11'03
asc. node	9481 Nov 30 23:47	26° M 18'52		asc. node	9482 Nov 17 20:46	13° M 20'11	
	9481 Dec 04 02:16	0° J			9482 Nov 27 15:57	0° J	
morning set	9481 Dec 16 21:38	22° J 21'15		morning set	9482 Dec 01 03:22	6° J 58'26	
	9481 Dec 20 18:16	0° B					
superior conj	9481 Dec 25 05:34	8° B 43'17	1°10'34	superior conj	9482 Dec 08 18:42	22° J 35'54	1°28'02
minimum elong	9481 Dec 25 08:44	8° B 58'27	1°10'30	minimum elong	9482 Dec 08 21:04	22° J 47'48	1°28'09
max. Earth dist.	9482 Jan 01 02:24	21° B 28'34	1.38857 AU		9482 Dec 12 12:32	0° B	
desc. node	9482 Jan 04 03:29	26° B 50'47		max. Earth dist.	9482 Dec 14 09:12	3° B 34'27	1.36720 AU
evening rise	9482 Jan 04 22:13	28° B 11'42		evening rise	9482 Dec 18 04:27	10° B 38'15	
	9482 Jan 05 23:32	0° \approx		desc. node	9482 Dec 22 00:28	17° B 26'03	
					9482 Dec 29 14:57	0° \approx	

	9483 Jan 20 22:23	0°♄				9483 Dec 04 11:01	0°♄	
evening max el	9483 Jan 22 18:41	1°♄52'18	25°47'55	desc. node		9483 Dec 08 21:30	7°♄50'36	
retrograde	9483 Feb 04 05:36	8°♄59'51				9483 Dec 23 05:50	0°♄	
evening set	9483 Feb 10 06:16	6°♄31'43		evening max el		9484 Jan 05 08:07	15°♄35'29	26°45'28
asc. node	9483 Feb 13 19:50	2°♄48'25		retrograde		9484 Jan 18 10:52	22°♄54'30	
min. Earth dist.	9483 Feb 14 13:26	1°♄54'16	0.67236 AU	evening set		9484 Jan 24 23:01	20°♄20'13	
inferior conj	9483 Feb 16 00:08	0°♄04'37	0°42'33	min. Earth dist.		9484 Jan 29 00:09	16°♄17'19	0.66040 AU
minimum elong	9483 Feb 15 23:06	0°♄07'56	0°42'20	inferior conj		9484 Jan 30 22:39	14°♄00'59	-0°15'12
	9483 Feb 16 01:36	30°♄		minimum elong		9484 Jan 30 23:04	13°♄59'45	0°14'45
morning rise	9483 Feb 21 16:26	24°♄14'11		transit middle		9484 Jan 30 23:04	13°♄59'45	0°14'45
direct	9483 Feb 24 23:36	23°♄11'53		transit begin		9484 Jan 30 21:54	14°♄03'09	
morning max el	9483 Mar 03 18:56	26°♄54'34	18°56'31	transit end		9484 Jan 31 00:13	13°♄56'22	
	9483 Mar 06 14:08	0°♄		asc. node		9484 Jan 31 16:56	13°♄07'39	
greatest brilliancy	9483 Mar 17 22:46	16°♄07'21	-0.8m	morning rise		9484 Feb 06 00:10	8°♄21'43	
desc. node	9483 Mar 20 00:28	19°♄18'04		direct		9484 Feb 08 21:13	7°♄35'58	
morning set	9483 Mar 26 08:43	29°♄07'47		morning max el		9484 Feb 15 08:17	11°♄02'33	18°16'25
	9483 Mar 26 22:09	0°♄				9484 Feb 28 20:52	0°♄	
max. Earth dist.	9483 Apr 09 19:05	21°♄38'44	1.45335 AU	morning set		9484 Mar 05 16:25	9°♄19'13	
				desc. node		9484 Mar 05 21:19	9°♄38'54	
superior conj	9483 Apr 11 20:50	24°♄54'17	-2°04'43			9484 Mar 18 16:38	0°♄	
minimum elong	9483 Apr 11 14:26	24°♄29'06	2°04'30					
	9483 Apr 15 02:17	0°♄		superior conj		9484 Mar 21 02:17	3°♄46'12	-1°37'08
evening rise	9483 Apr 26 20:43	18°♄52'59		minimum elong		9484 Mar 20 16:43	3°♄08'40	1°36'11
	9483 May 03 17:02	0°♄		max. Earth dist.		9484 Mar 22 14:46	6°♄09'02	1.45590 AU
asc. node	9483 May 12 18:18	13°♄48'26		evening rise		9484 Apr 06 03:07	28°♄49'17	
evening max el	9483 May 17 02:05	18°♄59'38	18°31'08			9484 Apr 06 21:12	0°♄	
retrograde	9483 May 23 13:37	22°♄30'35		greatest brilliancy		9484 Apr 17 05:30	16°♄04'10	-0.8m
evening set	9483 May 26 17:26	21°♄34'32				9484 Apr 27 02:48	0°♄	
inferior conj	9483 Jun 01 10:55	16°♄01'43	3°12'16	asc. node		9484 Apr 28 15:24	1°♄44'43	
minimum elong	9483 Jun 01 12:15	15°♄57'43	3°11'50	evening max el		9484 Apr 29 11:15	2°♄36'42	19°10'18
min. Earth dist.	9483 Jun 03 13:53	13°♄29'37	0.64930 AU	retrograde		9484 May 06 09:47	6°♄30'27	
morning rise	9483 Jun 07 06:13	9°♄43'59		evening set		9484 May 09 21:34	5°♄19'27	
direct	9483 Jun 13 20:39	7°♄00'06				9484 May 14 23:47	30°♄	
desc. node	9483 Jun 16 00:27	7°♄15'37		inferior conj		9484 May 15 08:46	29°♄31'02	3°20'25
morning max el	9483 Jun 27 08:36	14°♄56'08	27°14'18	minimum elong		9484 May 15 08:51	29°♄30'46	3°20'08
	9483 Jul 09 15:31	0°♄		min. Earth dist.		9484 May 16 20:31	27°♄35'53	0.66499 AU
	9483 Jul 28 05:11	0°♄		morning rise		9484 May 20 19:42	23°♄11'25	
morning set	9483 Aug 01 20:18	8°♄43'57		direct		9484 May 27 01:42	20°♄27'28	
max. Earth dist.	9483 Aug 06 08:38	17°♄44'38	1.33476 AU	desc. node		9484 Jun 01 21:27	22°♄20'29	
asc. node	9483 Aug 08 17:39	22°♄40'00		morning max el		9484 Jun 08 19:10	28°♄03'15	26°10'22
						9484 Jun 10 15:30	0°♄	
superior conj	9483 Aug 10 04:01	25°♄40'54	0°14'17			9484 Jul 02 09:09	0°♄	
minimum elong	9483 Aug 10 03:18	25°♄37'06	0°13'55	morning set		9484 Jul 14 20:13	21°♄33'15	
behind sun begin	9483 Aug 10 00:31	25°♄22'22		max. Earth dist.		9484 Jul 18 17:49	28°♄57'56	1.35091 AU
behind sun end	9483 Aug 10 06:05	25°♄51'51				9484 Jul 19 06:34	0°♄	
	9483 Aug 12 04:43	0°♄						
evening rise	9483 Aug 17 08:44	11°♄02'17		superior conj		9484 Jul 24 00:01	9°♄27'05	-0°15'52
	9483 Aug 27 02:16	0°♄		minimum elong		9484 Jul 24 00:57	9°♄31'51	0°15'58
evening max el	9483 Sep 07 06:10	15°♄12'22	22°02'23	behind sun begin		9484 Jul 24 00:11	9°♄27'55	
desc. node	9483 Sep 11 23:02	19°♄00'16		behind sun end		9484 Jul 24 01:44	9°♄35'46	
retrograde	9483 Sep 19 22:44	21°♄31'16		asc. node		9484 Jul 25 14:34	12°♄44'53	
evening set	9483 Sep 22 23:50	21°♄10'36		evening rise		9484 Jul 31 17:03	25°♄25'58	
min. Earth dist.	9483 Oct 01 10:53	17°♄29'22	0.54787 AU			9484 Aug 02 22:35	0°♄	
inferior conj	9483 Oct 02 00:13	17°♄10'41	-5°10'33	evening max el		9484 Aug 19 05:26	25°♄49'40	20°34'49
minimum elong	9483 Oct 01 16:24	17°♄21'37	5°09'08			9484 Aug 24 19:25	0°♄	
morning rise	9483 Oct 10 10:28	13°♄23'11		desc. node		9484 Aug 28 20:13	1°♄17'05	
direct	9483 Oct 13 21:07	12°♄57'00		retrograde		9484 Aug 30 10:58	1°♄23'46	
morning max el	9483 Oct 25 21:00	18°♄36'26	21°40'39	evening set		9484 Sep 01 12:53	1°♄13'06	
	9483 Nov 03 22:26	0°♄				9484 Sep 05 12:07	30°♄	
asc. node	9483 Nov 04 17:42	1°♄16'39		inferior conj		9484 Sep 10 16:49	27°♄16'15	-3°46'24
morning set	9483 Nov 15 12:58	21°♄44'47		minimum elong		9484 Sep 10 07:23	27°♄29'51	3°43'29
	9483 Nov 19 10:44	0°♄		min. Earth dist.		9484 Sep 11 19:39	26°♄37'31	0.54744 AU
				morning rise		9484 Sep 19 01:36	23°♄15'07	
superior conj	9483 Nov 22 17:32	6°♄55'32	1°37'46	direct		9484 Sep 23 05:22	22°♄38'04	
minimum elong	9483 Nov 22 18:41	7°♄01'34	1°38'01	morning max el		9484 Oct 06 11:56	29°♄02'28	23°24'55
max. Earth dist.	9483 Nov 26 21:24	15°♄28'30	1.34831 AU			9484 Oct 07 11:43	0°♄	
evening rise	9483 Dec 01 03:21	23°♄48'18		asc. node		9484 Oct 21 14:37	19°♄54'36	

	9484 Oct 26 20:44	0°♌		asc. node	9485 Oct 08 11:32	9°♌03'40	
morning set	9484 Oct 30 00:27	6°♌33'51		morning set	9485 Oct 14 12:06	21°♌20'36	
					9485 Oct 18 11:40	0°♌	
superior conj	9484 Nov 05 22:55	21°♌32'17	1°40'35	superior conj	9485 Oct 21 08:24	6°♌18'36	1°37'09
minimum elong	9484 Nov 05 22:50	21°♌31'49	1°40'50	minimum elong	9485 Oct 21 07:15	6°♌12'18	1°37'17
max. Earth dist.	9484 Nov 08 17:23	27°♌27'05	1.33323 AU	max. Earth dist.	9485 Oct 22 20:46	9°♌37'57	1.32262 AU
	9484 Nov 09 22:31	0°♌		evening rise	9485 Oct 28 12:27	21°♌40'24	
evening rise	9484 Nov 13 15:06	7°♌31'52			9485 Nov 01 16:25	0°♌	
desc. node	9484 Nov 24 18:34	27°♌58'19		desc. node	9485 Nov 11 15:40	17°♌41'53	
	9484 Nov 25 23:53	0°♌			9485 Nov 19 22:25	0°♌	
evening max el	9484 Dec 17 20:50	29°♌02'31	27°21'22	evening max el	9485 Nov 30 07:16	12°♌01'53	27°29'03
	9484 Dec 18 21:33	0°♌		retrograde	9485 Dec 14 02:29	19°♌19'38	
retrograde	9484 Dec 31 10:05	6°♌24'15		evening set	9485 Dec 21 03:46	16°♌54'33	
evening set	9485 Jan 07 07:07	3°♌50'13		min. Earth dist.	9485 Dec 24 20:41	13°♌53'05	0.62636 AU
min. Earth dist.	9485 Jan 11 03:09	0°♌20'10	0.64487 AU	inferior conj	9485 Dec 27 17:09	11°♌09'22	-2°31'44
	9485 Jan 11 10:52	30°♌		minimum elong	9485 Dec 27 22:05	10°♌57'32	2°29'30
inferior conj	9485 Jan 13 13:16	27°♌44'54	-1°20'34	morning rise	9486 Jan 03 18:40	6°♌00'37	
minimum elong	9485 Jan 13 15:45	27°♌38'15	1°19'15	asc. node	9486 Jan 04 11:07	5°♌48'31	
asc. node	9485 Jan 17 14:01	23°♌51'44		direct	9486 Jan 06 01:27	5°♌36'43	
morning rise	9485 Jan 20 02:04	22°♌19'29		morning max el	9486 Jan 12 18:32	9°♌02'42	17°47'39
direct	9485 Jan 22 14:50	21°♌46'35			9486 Jan 26 15:26	0°♌	
morning max el	9485 Jan 29 01:11	25°♌08'05	17°53'18	morning set	9486 Jan 28 17:55	3°♌42'17	
	9485 Feb 02 03:01	0°♌		desc. node	9486 Feb 07 15:02	20°♌51'01	
morning set	9485 Feb 15 05:13	20°♌56'33					
desc. node	9485 Feb 20 18:11	0°♌11'25		superior conj	9486 Feb 09 09:20	23°♌49'00	-0°13'06
	9485 Feb 20 15:25	0°♌		minimum elong	9486 Feb 09 08:02	23°♌43'35	0°12'40
superior conj	9485 Feb 28 18:21	13°♌14'16	-0°56'32	behind sun begin	9486 Feb 09 02:26	23°♌20'05	
minimum elong	9485 Feb 28 12:01	12°♌48'51	0°55'35	behind sun end	9486 Feb 09 13:39	24°♌07'04	
max. Earth dist.	9485 Mar 05 10:13	20°♌38'59	1.45096 AU		9486 Feb 13 02:58	0°♌	
	9485 Mar 11 09:41	0°♌		max. Earth dist.	9486 Feb 16 02:57	4°♌52'06	1.43924 AU
evening rise	9485 Mar 16 17:29	8°♌13'07		evening rise	9486 Feb 24 05:55	17°♌40'22	
	9485 Mar 31 04:13	0°♌			9486 Mar 04 08:35	0°♌	
greatest brilliancy	9485 Mar 31 15:54	0°♌42'36	-0.6m	evening max el	9486 Mar 26 14:04	29°♌58'30	21°13'18
evening max el	9485 Apr 12 15:25	16°♌17'00	20°05'15		9486 Mar 26 14:40	0°♌	
asc. node	9485 Apr 15 12:32	18°♌49'38		asc. node	9486 Apr 02 09:42	4°♌47'50	
retrograde	9485 Apr 20 08:15	20°♌44'00		retrograde	9486 Apr 04 06:43	5°♌05'25	
evening set	9485 Apr 24 04:46	19°♌17'46		evening set	9486 Apr 08 13:04	3°♌23'51	
inferior conj	9485 Apr 29 12:38	13°♌15'35	3°15'06		9486 Apr 11 17:45	30°♌	
minimum elong	9485 Apr 29 11:39	13°♌18'57	3°14'47	inferior conj	9486 Apr 13 20:03	27°♌10'06	2°58'32
min. Earth dist.	9485 Apr 30 09:57	12°♌03'23	0.67631 AU	minimum elong	9486 Apr 13 18:17	27°♌16'17	2°58'05
morning rise	9485 May 04 18:15	6°♌57'23		min. Earth dist.	9486 Apr 14 03:59	26°♌42'33	0.68312 AU
direct	9485 May 10 12:41	4°♌23'04		morning rise	9486 Apr 18 23:17	20°♌55'28	
desc. node	9485 May 19 18:24	9°♌04'08		direct	9486 Apr 24 04:30	18°♌37'58	
morning max el	9485 May 22 04:48	11°♌23'12	24°48'32	morning max el	9486 May 04 14:19	24°♌49'40	23°19'00
	9485 Jun 06 01:34	0°♌		desc. node	9486 May 06 15:19	26°♌59'18	
	9485 Jun 25 02:20	0°♌			9486 May 09 05:57	0°♌	
morning set	9485 Jun 27 03:00	3°♌32'53			9486 May 30 12:39	0°♌	
max. Earth dist.	9485 Jun 30 17:32	10°♌02'19	1.37117 AU	morning set	9486 Jun 08 11:15	14°♌28'16	
				max. Earth dist.	9486 Jun 12 13:38	21°♌28'17	1.39376 AU
superior conj	9485 Jul 07 09:41	22°♌40'45	-0°48'14		9486 Jun 17 08:59	0°♌	
minimum elong	9485 Jul 07 12:45	22°♌55'39	0°47'58	superior conj	9486 Jun 20 05:11	5°♌12'29	-1°20'28
	9485 Jul 11 02:31	0°♌		minimum elong	9486 Jun 20 10:21	5°♌36'29	1°20'02
asc. node	9485 Jul 12 11:32	2°♌45'27		asc. node	9486 Jun 29 08:32	22°♌37'20	
evening rise	9485 Jul 15 20:27	9°♌32'18		evening rise	9486 Jun 29 15:58	23°♌13'11	
	9485 Jul 27 01:24	0°♌			9486 Jul 03 05:07	0°♌	
evening max el	9485 Aug 01 18:20	7°♌11'37	19°26'26	evening max el	9486 Jul 15 19:03	19°♌17'56	18°39'04
retrograde	9485 Aug 11 06:58	11°♌54'42		retrograde	9486 Jul 23 20:08	23°♌18'24	
evening set	9485 Aug 13 03:07	11°♌44'54		evening set	9486 Jul 25 20:48	23°♌04'00	
desc. node	9485 Aug 15 17:22	11°♌00'24		inferior conj	9486 Aug 02 18:41	18°♌39'10	-0°03'11
inferior conj	9485 Aug 21 19:51	7°♌38'27	-1°52'59	minimum elong	9486 Aug 02 18:33	18°♌39'25	0°03'22
minimum elong	9485 Aug 21 14:46	7°♌46'39	1°51'10	transit middle	9486 Aug 02 18:33	18°♌39'25	0°03'22
min. Earth dist.	9485 Aug 24 07:50	6°♌01'54	0.55649 AU	transit begin	9486 Aug 02 14:59	18°♌46'07	
morning rise	9485 Aug 29 23:50	3°♌05'29		transit end	9486 Aug 02 22:07	18°♌32'42	
direct	9485 Sep 03 23:06	2°♌09'38		desc. node	9486 Aug 02 14:31	18°♌47'00	
morning max el	9485 Sep 17 23:50	9°♌13'07	25°09'59	min. Earth dist.	9486 Aug 06 00:35	16°♌13'34	0.57328 AU
	9485 Oct 03 11:56	0°♌					

morning rise	9486 Aug 10 12:48	13°♌29'06		desc. node	9487 Jul 20 11:39	26°♊17'14	
direct	9486 Aug 16 07:23	12°♌06'20		morning rise	9487 Jul 22 19:47	24°♊42'47	
morning max el	9486 Aug 30 15:14	19°♌38'04	26°38'37	direct	9487 Jul 29 04:53	22°♊49'42	
	9486 Sep 08 11:15	0°♍			9487 Aug 11 20:54	0°♌	
asc. node	9486 Sep 25 08:27	28°♍35'39		morning max el	9487 Aug 12 13:28	0°♌40'02	27°36'30
	9486 Sep 26 01:06	0°♎			9487 Sep 02 14:47	0°♍	
morning set	9486 Sep 28 22:16	6°♎00'25		asc. node	9487 Sep 12 05:21	18°♍23'35	
				morning set	9487 Sep 13 05:13	20°♍27'56	
					9487 Sep 17 15:33	0°♎	
superior conj	9486 Oct 05 19:55	21°♎07'54	1°28'02	max. Earth dist.	9487 Sep 19 15:02	4°♎22'08	1.31554 AU
minimum elong	9486 Oct 05 18:01	20°♎57'23	1°27'56				
max. Earth dist.	9486 Oct 06 05:11	21°♎59'23	1.31670 AU	superior conj	9487 Sep 20 07:33	5°♎53'50	1°13'35
	9486 Oct 09 20:23	0°♏		minimum elong	9487 Sep 20 05:19	5°♎41'27	1°13'16
evening rise	9486 Oct 12 16:38	6°♏06'19		evening rise	9487 Sep 27 01:14	20°♎42'11	
	9486 Oct 25 06:00	0°♐			9487 Oct 01 12:54	0°♏	
desc. node	9486 Oct 29 12:47	6°♐51'32		desc. node	9487 Oct 16 09:58	25°♏13'10	
evening max el	9486 Nov 12 13:01	24°♐21'17	27°03'47		9487 Oct 20 02:17	0°♑	
	9486 Nov 20 07:45	0°♑		evening max el	9487 Oct 25 11:13	5°♑49'32	26°04'39
retrograde	9486 Nov 26 10:44	1°♑31'43		retrograde	9487 Nov 08 09:07	12°♑52'54	
	9486 Dec 02 08:26	30°♒		evening set	9487 Nov 14 18:53	11°♑15'10	
evening set	9486 Dec 03 09:16	29°♒25'38		min. Earth dist.	9487 Nov 19 00:05	8°♒40'23	0.58491 AU
min. Earth dist.	9486 Dec 07 03:40	26°♒44'21	0.60584 AU	inferior conj	9487 Nov 22 03:09	6°♒23'26	-4°50'02
inferior conj	9486 Dec 10 07:00	24°♒06'00	-3°44'23	minimum elong	9487 Nov 22 10:37	6°♒09'47	4°48'04
minimum elong	9486 Dec 10 14:07	23°♒51'00	3°41'45	morning rise	9487 Nov 30 04:44	1°♒57'00	
morning rise	9486 Dec 17 21:27	19°♒17'01		direct	9487 Dec 02 10:25	1°♒40'29	
direct	9486 Dec 20 01:29	18°♒58'27		asc. node	9487 Dec 09 05:13	4°♒23'05	
asc. node	9486 Dec 22 08:11	19°♒19'50		morning max el	9487 Dec 10 16:47	5°♒41'48	18°33'54
morning max el	9486 Dec 27 08:59	22°♒37'39	18°00'38		9487 Dec 26 00:41	0°♓	
	9487 Jan 02 03:00	0°♓		morning set	9487 Dec 26 18:20	1°♓25'09	
morning set	9487 Jan 12 00:06	17°♓17'31					
	9487 Jan 18 22:18	0°♈		superior conj	9488 Jan 04 14:56	18°♓21'55	0°56'41
				minimum elong	9488 Jan 04 18:09	18°♓36'51	0°56'33
superior conj	9487 Jan 22 01:27	5°♈35'26	0°25'46		9488 Jan 11 01:17	0°♈	
minimum elong	9487 Jan 22 03:30	5°♈44'28	0°25'44	max. Earth dist.	9488 Jan 12 00:12	1°♈40'06	1.40124 AU
desc. node	9487 Jan 25 11:57	11°♈34'33		desc. node	9488 Jan 12 08:54	2°♈17'47	
max. Earth dist.	9487 Jan 29 15:48	18°♈36'23	1.42205 AU	evening rise	9488 Jan 16 04:28	8°♈47'10	
evening rise	9487 Feb 04 07:01	27°♈46'32			9488 Jan 29 16:26	0°♉	
	9487 Feb 05 16:40	0°♉		evening max el	9488 Feb 19 22:33	27°♉28'28	23°50'28
	9487 Feb 26 01:21	0°♊			9488 Feb 22 16:15	0°♊	
evening max el	9487 Mar 09 07:57	13°♊42'12	22°30'11	retrograde	9488 Mar 01 21:13	3°♊55'09	
retrograde	9487 Mar 19 03:29	19°♊30'42		asc. node	9488 Mar 06 04:02	2°♊27'52	
asc. node	9487 Mar 20 06:52	19°♊24'15		evening set	9488 Mar 07 02:33	1°♊44'17	
evening set	9487 Mar 23 20:50	17°♊34'01			9488 Mar 08 20:49	30°♋	
inferior conj	9487 Mar 29 04:57	11°♊11'24	2°32'04	min. Earth dist.	9488 Mar 11 20:56	26°♋12'23	0.68358 AU
minimum elong	9487 Mar 29 02:46	11°♊18'59	2°31'28	inferior conj	9488 Mar 12 13:25	25°♋16'15	1°56'28
min. Earth dist.	9487 Mar 29 00:23	11°♊27'16	0.68551 AU	minimum elong	9488 Mar 12 11:16	25°♋23'34	1°55'49
morning rise	9487 Apr 03 08:33	5°♋01'50		morning rise	9488 Mar 17 20:00	19°♋12'59	
direct	9487 Apr 08 00:03	3°♋05'18		direct	9488 Mar 21 22:03	17°♋38'45	
morning max el	9487 Apr 17 02:56	8°♋24'33	21°51'12	morning max el	9488 Mar 29 22:00	22°♋11'25	20°32'24
desc. node	9487 Apr 23 12:13	15°♋46'24			9488 Apr 05 13:23	0°♌	
	9487 May 03 20:45	0°♌		desc. node	9488 Apr 09 09:05	5°♌11'17	
morning set	9487 May 19 16:44	24°♌09'31			9488 Apr 26 02:46	0°♍	
	9487 May 23 07:18	0°♍		morning set	9488 Apr 27 22:25	2°♌48'36	
max. Earth dist.	9487 May 25 13:34	3°♍44'02	1.41596 AU	max. Earth dist.	9488 May 06 20:42	16°♌54'48	1.43493 AU
				superior conj	9488 May 13 07:40	27°♌29'29	-2°08'06
superior conj	9487 Jun 02 05:58	16°♍51'53	-1°48'53	minimum elong	9488 May 13 11:43	27°♌46'18	2°08'13
minimum elong	9487 Jun 02 12:07	17°♍18'53	1°48'36		9488 May 14 19:40	0°♎	
	9487 Jun 09 13:25	0°♎		evening rise	9488 May 25 15:55	18°♎41'20	
evening rise	9487 Jun 12 23:57	6°♎19'46			9488 Jun 01 03:47	0°♏	
asc. node	9487 Jun 16 05:34	12°♎16'09		asc. node	9488 Jun 02 02:37	1°♎36'32	
	9487 Jun 27 07:49	0°♏		evening max el	9488 Jun 11 16:32	15°♎08'06	18°04'54
evening max el	9487 Jun 29 03:45	2°♏00'06	18°12'12	retrograde	9488 Jun 18 04:24	18°♎29'30	
retrograde	9487 Jul 06 04:28	5°♏33'12		evening set	9488 Jun 20 09:17	17°♎55'11	
evening set	9487 Jul 08 12:34	5°♏10'16		inferior conj	9488 Jun 27 06:49	12°♎49'48	2°23'50
inferior conj	9487 Jul 15 15:15	0°♏24'31	1°23'46	minimum elong	9488 Jun 27 09:40	12°♎42'34	2°22'48
minimum elong	9487 Jul 15 17:43	0°♏19'04	1°22'39	min. Earth dist.	9488 Jun 30 07:36	9°♎46'47	0.61724 AU
	9487 Jul 16 02:21	30°♏					
min. Earth dist.	9487 Jul 18 23:48	27°♏28'37	0.59465 AU				

morning rise	9488 Jul 03 20:59	6°♄46'32		morning rise	9489 Jun 16 14:32	19°♂30'51	
desc. node	9488 Jul 06 08:45	5°♄21'13		direct	9489 Jun 23 07:30	16°♂52'05	
direct	9488 Jul 10 13:32	4°♄26'16		desc. node	9489 Jun 23 05:48	16°♂52'06	
morning max el	9488 Jul 24 18:23	12°♄27'28	27°56'34	morning max el	9489 Jul 07 03:30	24°♂54'23	27°39'08
	9488 Aug 07 16:29	0°♂			9489 Jul 11 18:34	0°♄	
	9488 Aug 24 23:52	0°♂			9489 Aug 01 03:29	0°♂	
morning set	9488 Aug 27 07:01	4°♂38'11		morning set	9489 Aug 11 01:16	18°♂23'52	
asc. node	9488 Aug 29 02:15	8°♂22'20		asc. node	9489 Aug 15 23:08	28°♂26'42	
max. Earth dist.	9488 Sep 01 22:27	16°♂35'36	1.31916 AU	max. Earth dist.	9489 Aug 15 23:19	28°♂27'37	1.32763 AU
					9489 Aug 16 16:50	0°♂	
superior conj	9488 Sep 03 17:33	20°♂31'16	0°54'08	superior conj	9489 Aug 18 23:55	4°♂53'56	0°30'02
minimum elong	9488 Sep 03 15:27	20°♂19'48	0°53'40	minimum elong	9489 Aug 18 22:32	4°♂46'28	0°29'35
	9488 Sep 08 00:53	0°♂		evening rise	9489 Aug 25 23:45	20°♂00'28	
evening rise	9488 Sep 10 12:16	5°♂22'19			9489 Aug 30 19:54	0°♂	
	9488 Sep 23 09:27	0°♂		evening max el	9489 Sep 17 12:11	26°♂39'10	22°58'42
desc. node	9488 Oct 02 07:08	12°♂28'07		desc. node	9489 Sep 19 04:18	28°♂11'08	
evening max el	9488 Oct 06 01:19	16°♂28'13	24°38'08		9489 Sep 21 12:08	0°♂	
retrograde	9488 Oct 19 20:14	23°♂23'53		retrograde	9489 Sep 30 19:10	3°♂17'02	
evening set	9488 Oct 25 04:23	22°♂20'20		evening set	9489 Oct 04 15:38	2°♂44'35	
min. Earth dist.	9488 Oct 30 12:25	19°♂33'20	0.56601 AU		9489 Oct 10 21:40	30°♂♂	
inferior conj	9488 Nov 02 03:02	17°♂53'40	-5°33'39	min. Earth dist.	9489 Oct 11 20:57	29°♂27'06	0.55222 AU
minimum elong	9488 Nov 02 06:51	17°♂47'34	5°33'06	inferior conj	9489 Oct 13 07:43	28°♂37'00	-5°35'07
morning rise	9488 Nov 10 11:31	13°♂49'33		minimum elong	9489 Oct 13 03:55	28°♂42'30	5°34'41
direct	9488 Nov 13 00:20	13°♂31'59		morning rise	9489 Oct 21 18:07	24°♂47'33	
morning max el	9488 Nov 22 14:18	18°♂05'07	19°29'10	direct	9489 Oct 24 19:26	24°♂25'39	
asc. node	9488 Nov 25 02:12	20°♂45'37		morning max el	9489 Nov 04 22:50	29°♂39'56	20°46'55
	9488 Dec 01 10:37	0°♂			9489 Nov 05 07:15	0°♂	
morning set	9488 Dec 09 20:41	15°♂53'43		asc. node	9489 Nov 11 23:09	8°♂12'00	
	9488 Dec 16 21:31	0°♂			9489 Nov 23 21:26	0°♂	
superior conj	9488 Dec 17 20:44	1°♂54'12	1°18'58	morning set	9489 Nov 24 04:16	0°♂35'14	
minimum elong	9488 Dec 17 23:39	2°♂08'26	1°18'58	superior conj	9489 Dec 01 14:24	15°♂59'39	1°33'03
max. Earth dist.	9488 Dec 24 06:01	14°♂02'11	1.37927 AU	minimum elong	9489 Dec 01 16:17	16°♂09'15	1°33'14
evening rise	9488 Dec 27 23:21	20°♂43'45		max. Earth dist.	9489 Dec 06 14:08	25°♂58'30	1.35866 AU
desc. node	9488 Dec 29 05:52	22°♂57'06			9489 Dec 08 16:21	0°♂	
	9489 Jan 02 09:39	0°♂		evening rise	9489 Dec 10 13:06	3°♂29'58	
	9489 Jan 22 17:10	0°♂		desc. node	9489 Dec 16 02:52	13°♂28'34	
evening max el	9489 Feb 01 11:45	11°♂16'41	25°07'41		9489 Dec 26 08:29	0°♂	
retrograde	9489 Feb 13 10:56	18°♂13'10		evening max el	9490 Jan 15 00:59	25°♂03'59	26°14'41
evening set	9489 Feb 19 04:36	15°♂50'11			9490 Jan 21 02:14	0°♂	
asc. node	9489 Feb 21 01:10	14°♂01'35		retrograde	9490 Jan 27 19:40	2°♂18'40	
min. Earth dist.	9489 Feb 23 15:25	10°♂53'00	0.67755 AU		9490 Feb 02 18:58	30°♂♂	
inferior conj	9489 Feb 24 19:34	9°♂21'04	1°12'03	evening set	9490 Feb 03 01:19	29°♂47'12	
minimum elong	9489 Feb 24 17:57	9°♂26'21	1°11'36	min. Earth dist.	9490 Feb 07 05:45	25°♂24'29	0.66763 AU
morning rise	9489 Mar 02 07:38	3°♂25'34		asc. node	9490 Feb 07 22:17	24°♂33'59	
direct	9489 Mar 05 21:14	2°♂12'29		inferior conj	9490 Feb 08 21:30	23°♂22'25	0°19'06
morning max el	9489 Mar 13 00:57	6°♂10'02	19°27'02	minimum elong	9490 Feb 08 21:00	23°♂23'59	0°19'07
greatest brilliancy	9489 Mar 25 18:49	22°♂52'53	-0.7m	morning rise	9490 Feb 14 17:27	17°♂36'26	
desc. node	9489 Mar 27 05:56	25°♂03'32		direct	9490 Feb 17 19:59	16°♂41'46	
	9489 Mar 30 12:38	0°♂		morning max el	9490 Feb 24 11:04	20°♂16'36	18°37'27
morning set	9489 Apr 06 21:09	11°♂15'30			9490 Mar 04 03:39	0°♂	
	9489 Apr 18 21:59	0°♂		desc. node	9490 Mar 14 02:47	15°♂15'57	
max. Earth dist.	9489 Apr 19 10:08	0°♂47'55	1.44851 AU	morning set	9490 Mar 17 12:44	20°♂38'06	
					9490 Mar 23 11:47	0°♂	
superior conj	9489 Apr 23 09:03	7°♂04'48	-2°11'42	max. Earth dist.	9490 Apr 02 03:51	15°♂08'15	1.45532 AU
minimum elong	9489 Apr 23 06:49	6°♂55'51	2°11'51	superior conj	9490 Apr 02 17:21	16°♂01'02	-1°55'13
evening rise	9489 May 07 11:04	0°♂07'04		minimum elong	9490 Apr 02 08:44	15°♂27'22	1°54'40
	9489 May 07 09:22	0°♂			9490 Apr 11 14:52	0°♂	
asc. node	9489 May 19 23:41	20°♂31'16		evening rise	9490 Apr 18 06:30	10°♂33'53	
evening max el	9489 May 26 05:59	28°♂32'35	18°16'19	greatest brilliancy	9490 Apr 26 08:08	23°♂25'13	-0.9m
	9489 May 27 21:12	0°♂			9490 Apr 30 13:44	0°♂	
retrograde	9489 Jun 01 15:10	1°♂56'25		asc. node	9490 May 06 20:47	8°♂52'24	
evening set	9489 Jun 04 14:27	1°♂08'50		evening max el	9490 May 09 17:27	12°♂07'25	18°45'42
	9489 Jun 06 07:57	30°♂♂		retrograde	9490 May 16 08:47	15°♂46'39	
inferior conj	9489 Jun 10 13:07	25°♂45'40	3°00'15	evening set	9490 May 19 15:51	14°♂44'29	
minimum elong	9489 Jun 10 15:09	25°♂39'54	2°59'36				
min. Earth dist.	9489 Jun 13 00:46	22°♂57'08	0.63846 AU				

inferior conj	9490 May 25 06:18	9° Π 05'04	3°17'32	inferior conj	9491 May 09 07:04	22° \mathcal{B} 41'32	3°19'37
minimum elong	9490 May 25 07:06	9° Π 02'36	3°17'10	minimum elong	9491 May 09 06:39	22° \mathcal{B} 42'53	3°19'21
min. Earth dist.	9490 May 27 02:52	6° Π 47'16	0.65656 AU	min. Earth dist.	9491 May 10 12:35	21° \mathcal{B} 04'09	0.67044 AU
morning rise	9490 May 30 21:40	2° Π 45'54		morning rise	9491 May 14 15:23	16° \mathcal{B} 22'26	
direct	9490 Jun 06 09:06	0° Π 00'18		direct	9491 May 20 16:55	13° \mathcal{B} 41'23	
desc. node	9490 Jun 10 02:49	0° Π 47'03		desc. node	9491 May 27 23:47	16° \mathcal{B} 37'43	
morning max el	9490 Jun 19 14:01	7° Π 50'03	26°49'43	morning max el	9491 Jun 02 00:02	21° \mathcal{B} 03'13	25°37'03
	9490 Jul 06 18:57	0° \mathcal{E}			9491 Jun 09 17:32	0° Π	
	9490 Jul 24 12:32	0° \mathcal{O}			9491 Jun 29 23:40	0° \mathcal{E}	
morning set	9490 Jul 25 08:58	1° \mathcal{O} 36'57		morning set	9491 Jul 08 02:15	14° \mathcal{E} 07'12	
max. Earth dist.	9490 Jul 29 14:22	9° \mathcal{O} 52'50	1.34108 AU	max. Earth dist.	9491 Jul 11 19:04	20° \mathcal{E} 59'38	1.35917 AU
asc. node	9490 Aug 02 20:03	18° \mathcal{O} 32'44			9491 Jul 16 10:28	0° \mathcal{O}	
superior conj	9490 Aug 03 00:30	18° \mathcal{O} 55'58	0°01'52	superior conj	9491 Jul 17 16:36	2° \mathcal{O} 30'18	-0°29'26
minimum elong	9490 Aug 03 00:25	18° \mathcal{O} 55'30	0°01'36	minimum elong	9491 Jul 17 18:24	2° \mathcal{O} 39'16	0°29'22
behind sun begin	9490 Aug 02 18:42	18° \mathcal{O} 25'46		asc. node	9491 Jul 20 17:01	8° \mathcal{O} 36'55	
behind sun end	9490 Aug 03 06:07	19° \mathcal{O} 25'17		evening rise	9491 Jul 25 16:26	18° \mathcal{O} 49'13	
	9490 Aug 08 06:22	0° \mathcal{M}			9491 Jul 31 08:03	0° \mathcal{M}	
evening rise	9490 Aug 10 09:51	4° \mathcal{M} 31'21		evening max el	9491 Aug 12 10:07	17° \mathcal{M} 55'10	20°03'08
	9490 Aug 24 09:48	0° \mathcal{L}		retrograde	9491 Aug 22 21:48	23° \mathcal{M} 06'47	
evening max el	9490 Aug 30 04:55	6° \mathcal{L} 58'41	21°23'05	desc. node	9491 Aug 23 22:39	23° \mathcal{M} 03'56	
desc. node	9490 Sep 06 01:29	11° \mathcal{L} 51'48		evening set	9491 Aug 24 19:43	22° \mathcal{M} 57'11	
retrograde	9490 Sep 11 08:08	12° \mathcal{L} 59'47		inferior conj	9491 Sep 02 20:24	18° \mathcal{M} 57'51	-2°59'44
evening set	9490 Sep 13 20:59	12° \mathcal{L} 45'00		minimum elong	9491 Sep 02 12:23	19° \mathcal{M} 09'51	2°57'00
inferior conj	9490 Sep 23 00:55	8° \mathcal{L} 48'25	-4°40'31	min. Earth dist.	9491 Sep 04 14:56	17° \mathcal{M} 54'11	0.55026 AU
minimum elong	9490 Sep 22 15:27	9° \mathcal{L} 01'40	4°38'12	morning rise	9491 Sep 11 03:45	14° \mathcal{M} 45'07	
min. Earth dist.	9490 Sep 23 05:04	8° \mathcal{L} 42'35	0.54649 AU	direct	9491 Sep 15 15:57	14° \mathcal{M} 01'00	
morning rise	9490 Oct 01 10:40	4° \mathcal{L} 57'21		morning max el	9491 Sep 29 07:18	20° \mathcal{M} 42'34	24°10'31
direct	9490 Oct 05 04:23	4° \mathcal{L} 27'07			9491 Oct 07 06:22	0° \mathcal{L}	
morning max el	9490 Oct 17 18:44	10° \mathcal{L} 26'43	22°23'56	asc. node	9491 Oct 16 17:01	15° \mathcal{L} 20'32	
asc. node	9490 Oct 29 20:05	26° \mathcal{L} 27'36		morning set	9491 Oct 24 02:39	0° \mathcal{M} 12'15	
	9490 Oct 31 20:28	0° \mathcal{M}			9491 Oct 24 00:21	0° \mathcal{M}	
morning set	9490 Nov 08 14:51	15° \mathcal{M} 23'02		superior conj	9491 Oct 30 23:45	15° \mathcal{M} 09'16	1°39'51
	9490 Nov 15 11:10	0° \mathcal{X}		minimum elong	9491 Oct 30 23:11	15° \mathcal{M} 06'10	1°40'03
superior conj	9490 Nov 15 16:19	0° \mathcal{X} 27'19	1°39'45	max. Earth dist.	9491 Nov 02 04:59	19° \mathcal{M} 57'16	1.32818 AU
minimum elong	9490 Nov 15 16:56	0° \mathcal{X} 30'35	1°40'02	evening rise	9491 Nov 07 10:10	0° \mathcal{X} 51'19	
max. Earth dist.	9490 Nov 19 05:20	7° \mathcal{X} 51'57	1.34132 AU		9491 Nov 07 00:03	0° \mathcal{X}	
evening rise	9490 Nov 23 17:53	16° \mathcal{X} 55'31		desc. node	9491 Nov 19 21:00	23° \mathcal{X} 45'32	
	9490 Nov 30 19:26	0° \mathcal{Z}			9491 Nov 23 18:44	0° \mathcal{Z}	
desc. node	9490 Dec 02 23:54	3° \mathcal{Z} 46'43		evening max el	9491 Dec 11 02:38	21° \mathcal{Z} 59'50	27°28'30
	9490 Dec 20 18:08	0° \mathcal{A}		retrograde	9491 Dec 24 18:39	29° \mathcal{Z} 19'32	
evening max el	9490 Dec 28 14:24	8° \mathcal{A} 42'12	27°04'00	evening set	9491 Dec 31 18:15	26° \mathcal{Z} 48'24	
retrograde	9491 Jan 10 22:32	16° \mathcal{A} 03'26		min. Earth dist.	9492 Jan 04 12:46	23° \mathcal{Z} 31'08	0.63735 AU
evening set	9491 Jan 17 14:40	13° \mathcal{A} 28'40		inferior conj	9492 Jan 07 03:25	20° \mathcal{Z} 51'10	-1°50'13
min. Earth dist.	9491 Jan 21 13:35	9° \mathcal{A} 39'46	0.65411 AU	minimum elong	9492 Jan 07 06:55	20° \mathcal{Z} 42'12	1°48'29
inferior conj	9491 Jan 23 16:58	7° \mathcal{A} 14'27	-0°42'03	asc. node	9492 Jan 12 16:30	16° \mathcal{Z} 07'02	
minimum elong	9491 Jan 23 18:12	7° \mathcal{A} 10'59	0°41'15	morning rise	9492 Jan 13 21:28	15° \mathcal{Z} 32'12	
asc. node	9491 Jan 25 19:24	4° \mathcal{A} 56'33		direct	9492 Jan 16 07:29	15° \mathcal{Z} 03'27	
morning rise	9491 Jan 29 23:02	1° \mathcal{A} 40'26		morning max el	9492 Jan 22 19:37	18° \mathcal{Z} 25'32	17°48'42
direct	9491 Feb 01 16:18	1° \mathcal{A} 00'36			9492 Jan 31 07:19	0° \mathcal{A}	
morning max el	9491 Feb 08 02:12	4° \mathcal{A} 24'04	18°04'29	morning set	9492 Feb 08 08:54	13° \mathcal{A} 36'17	
	9491 Feb 25 11:46	0° \mathcal{H}		desc. node	9492 Feb 15 20:29	26° \mathcal{A} 18'14	
morning set	9491 Feb 26 09:09	1° \mathcal{H} 27'24			9492 Feb 18 01:49	0° \mathcal{H}	
desc. node	9491 Feb 28 23:37	5° \mathcal{H} 42'17		superior conj	9492 Feb 21 01:54	4° \mathcal{H} 55'57	-0°37'55
superior conj	9491 Mar 13 01:05	25° \mathcal{H} 02'31	-1°20'56	minimum elong	9492 Feb 20 21:46	4° \mathcal{H} 39'07	0°37'09
minimum elong	9491 Mar 12 16:18	24° \mathcal{H} 27'50	1°19'51	max. Earth dist.	9492 Feb 26 18:42	14° \mathcal{H} 06'21	1.44679 AU
max. Earth dist.	9491 Mar 15 23:39	29° \mathcal{H} 40'01	1.45470 AU	evening rise	9492 Mar 07 16:13	29° \mathcal{H} 32'48	
	9491 Mar 16 04:45	0° \mathcal{Y}			9492 Mar 07 23:19	0° \mathcal{Y}	
evening rise	9491 Mar 29 04:39	20° \mathcal{Y} 12'24			9492 Mar 28 08:09	0° \mathcal{B}	
	9491 Apr 04 13:04	0° \mathcal{B}		evening max el	9492 Apr 05 02:36	9° \mathcal{B} 27'48	20°32'50
greatest brilliancy	9491 Apr 11 06:12	10° \mathcal{B} 11'38	-0.7m	asc. node	9492 Apr 09 15:03	13° \mathcal{B} 07'23	
evening max el	9491 Apr 23 00:45	25° \mathcal{B} 46'56	19°31'53	retrograde	9492 Apr 13 04:48	14° \mathcal{B} 10'49	
asc. node	9491 Apr 23 17:54	26° \mathcal{B} 28'53		evening set	9492 Apr 17 05:28	12° \mathcal{B} 37'49	
retrograde	9491 Apr 30 06:09	29° \mathcal{B} 53'16		inferior conj	9492 Apr 22 12:42	6° \mathcal{B} 30'25	3°09'19
evening set	9491 May 03 21:34	28° \mathcal{B} 35'48		minimum elong	9492 Apr 22 11:20	6° \mathcal{B} 35'06	3°08'58

min. Earth dist.	9492 Apr 23 04:07	5°♄37'30	0.67978 AU	asc. node	9493 Mar 27 12:12	28°♄32'51	
morning rise	9492 Apr 27 16:58	0°♄13'47		retrograde	9493 Mar 28 02:50	28°♄34'42	
	9492 Apr 27 23:13	30°♄♄		evening set	9493 Apr 01 13:46	26°♄46'25	
direct	9492 May 03 05:55	27°♄46'08		inferior conj	9493 Apr 06 20:59	20°♄28'17	2°48'28
	9492 May 09 05:46	0°♄		minimum elong	9493 Apr 06 18:59	20°♄35'14	2°47'57
desc. node	9492 May 13 20:44	3°♄54'28		min. Earth dist.	9493 Apr 06 23:25	20°♄19'46	0.68459 AU
morning max el	9492 May 14 09:24	4°♄26'06	24°10'52	morning rise	9493 Apr 12 00:02	14°♄15'41	
	9492 Jun 03 00:33	0°♄		direct	9493 Apr 16 23:18	12°♄07'02	
morning set	9492 Jun 19 00:08	25°♄41'12		morning max el	9493 Apr 26 19:59	17°♄56'36	22°41'06
	9492 Jun 21 11:19	0°♄		desc. node	9493 Apr 30 17:38	22°♄13'56	
max. Earth dist.	9492 Jun 22 16:51	2°♄11'30	1.38069 AU		9493 May 06 20:38	0°♄	
					9493 May 27 02:57	0°♄	
superior conj	9492 Jun 29 20:48	15°♄27'41	-1°02'04	morning set	9493 May 30 21:25	6°♄06'24	
minimum elong	9492 Jun 30 00:48	15°♄46'49	1°01'43	max. Earth dist.	9493 Jun 04 14:08	13°♄57'45	1.40336 AU
asc. node	9492 Jul 06 14:00	28°♄34'33					
	9492 Jul 07 07:16	0°♄		superior conj	9493 Jun 12 08:56	27°♄38'34	-1°33'14
evening rise	9492 Jul 08 16:55	2°♄46'21		minimum elong	9493 Jun 12 14:45	28°♄05'00	1°32'50
evening max el	9492 Jul 25 04:25	29°♄36'42	19°03'37		9493 Jun 13 15:59	0°♄	
	9492 Jul 25 14:02	0°♄		evening rise	9493 Jun 22 08:06	16°♄14'32	
retrograde	9492 Aug 03 00:46	4°♄00'21		asc. node	9493 Jun 23 11:01	18°♄21'49	
evening set	9492 Aug 04 22:09	3°♄49'08			9493 Jun 29 19:55	0°♄	
desc. node	9492 Aug 09 19:50	1°♄49'54		evening max el	9493 Jul 08 09:00	11°♄59'33	18°25'08
	9492 Aug 12 16:39	30°♄♄		retrograde	9493 Jul 15 22:31	15°♄46'51	
inferior conj	9492 Aug 13 07:14	29°♄35'02	-1°04'23	evening set	9493 Jul 18 02:02	15°♄29'23	
minimum elong	9492 Aug 13 04:26	29°♄39'50	1°03'30	inferior conj	9493 Jul 25 15:32	10°♄55'39	0°36'54
min. Earth dist.	9492 Aug 16 04:36	27°♄36'16	0.56288 AU	minimum elong	9493 Jul 25 16:49	10°♄53'03	0°36'10
morning rise	9492 Aug 21 07:39	24°♄46'21		desc. node	9493 Jul 27 16:57	9°♄15'34	
direct	9492 Aug 26 15:17	23°♄40'12		min. Earth dist.	9493 Jul 29 00:08	8°♄14'20	0.58200 AU
	9492 Sep 08 19:56	0°♄		morning rise	9493 Aug 02 04:06	5°♄30'35	
morning max el	9492 Sep 09 20:10	0°♄56'18	25°50'42	direct	9493 Aug 08 05:23	3°♄55'02	
	9492 Sep 30 03:30	0°♄		morning max el	9493 Aug 22 14:36	11°♄36'22	27°07'30
asc. node	9492 Oct 02 13:57	4°♄40'27			9493 Sep 05 22:55	0°♄	
morning set	9492 Oct 07 13:54	14°♄56'55		asc. node	9493 Sep 19 10:52	24°♄20'04	
				morning set	9493 Sep 21 22:56	29°♄32'21	
superior conj	9492 Oct 14 10:20	29°♄57'33	1°33'57		9493 Sep 22 04:09	0°♄	
minimum elong	9492 Oct 14 08:50	29°♄49'14	1°33'59				
	9492 Oct 14 10:47	0°♄		superior conj	9493 Sep 28 22:09	14°♄46'13	1°22'33
max. Earth dist.	9492 Oct 15 11:05	2°♄14'15	1.31957 AU	minimum elong	9493 Sep 28 20:03	14°♄34'36	1°22'20
evening rise	9492 Oct 21 10:45	15°♄07'59		max. Earth dist.	9493 Sep 28 20:30	14°♄37'05	1.31564 AU
	9492 Oct 29 00:06	0°♄		evening rise	9493 Oct 05 17:04	29°♄38'41	
desc. node	9492 Nov 05 18:07	13°♄16'06			9493 Oct 05 21:05	0°♄	
	9492 Nov 17 23:16	0°♄			9493 Oct 22 05:17	0°♄	
evening max el	9492 Nov 22 11:18	4°♄42'55	27°22'22	desc. node	9493 Oct 23 15:16	2°♄07'12	
retrograde	9492 Dec 06 07:31	11°♄57'27		evening max el	9493 Nov 04 13:49	16°♄40'13	26°42'23
evening set	9492 Dec 13 08:54	9°♄38'57		retrograde	9493 Nov 18 12:03	23°♄48'22	
min. Earth dist.	9492 Dec 17 01:36	6°♄47'41	0.61784 AU	evening set	9493 Nov 25 06:33	21°♄53'01	
inferior conj	9492 Dec 20 01:42	4°♄04'24	-3°02'46	min. Earth dist.	9493 Nov 29 03:50	19°♄16'37	0.59684 AU
minimum elong	9492 Dec 20 07:40	3°♄50'51	3°00'16	inferior conj	9493 Dec 02 08:23	16°♄45'00	-4°13'52
	9492 Dec 25 06:39	30°♄♄		minimum elong	9493 Dec 02 15:59	16°♄29'53	4°11'23
morning rise	9492 Dec 27 08:49	29°♄03'54		morning rise	9493 Dec 10 04:00	12°♄05'46	
direct	9492 Dec 29 14:06	28°♄42'37		direct	9493 Dec 12 08:00	11°♄48'34	
asc. node	9492 Dec 29 13:35	28°♄42'37		asc. node	9493 Dec 16 10:38	12°♄53'50	
	9493 Jan 02 18:05	0°♄		morning max el	9493 Dec 20 00:18	15°♄36'03	18°12'15
morning max el	9493 Jan 05 12:10	2°♄12'46	17°50'53		9493 Dec 30 00:01	0°♄	
morning set	9493 Jan 21 05:44	26°♄44'56		morning set	9494 Jan 04 17:32	10°♄34'59	
	9493 Jan 23 01:06	0°♄					
superior conj	9493 Feb 01 03:48	16°♄01'57	0°04'16	superior conj	9494 Jan 14 05:35	28°♄15'28	0°39'57
minimum elong	9493 Feb 01 04:13	16°♄03'41	0°04'27	minimum elong	9494 Jan 14 08:22	28°♄27'59	0°39'49
behind sun begin	9493 Jan 31 19:56	15°♄28'14			9494 Jan 15 04:50	0°♄	
behind sun end	9493 Feb 01 12:29	16°♄39'03		desc. node	9494 Jan 19 14:19	7°♄43'42	
desc. node	9493 Feb 01 17:24	17°♄00'00		max. Earth dist.	9494 Jan 21 20:29	11°♄35'02	1.41340 AU
max. Earth dist.	9493 Feb 08 10:08	28°♄09'22	1.43245 AU	evening rise	9494 Jan 26 17:40	19°♄40'26	
	9493 Feb 09 13:24	0°♄			9494 Feb 02 06:14	0°♄	
evening rise	9493 Feb 15 08:31	9°♄12'45			9494 Feb 23 12:37	0°♄	
	9493 Mar 01 03:34	0°♄		evening max el	9494 Mar 01 15:02	6°♄53'27	23°04'23
evening max el	9493 Mar 18 22:57	23°♄09'36	21°45'14	retrograde	9494 Mar 11 22:34	12°♄59'44	
				asc. node	9494 Mar 14 09:22	12°♄30'20	

evening set	9494 Mar 16 20:49	10° Υ 56'55		evening set	9495 Mar 01 01:07	25° Υ 05'46	
inferior conj	9494 Mar 22 05:53	4° Υ 31'17	2°18'04	asc. node	9495 Mar 01 06:29	24° Υ 54'06	
minimum elong	9494 Mar 22 03:40	4° Υ 38'58	2°17'27	min. Earth dist.	9495 Mar 05 16:14	19° Υ 48'23	0.68150 AU
min. Earth dist.	9494 Mar 21 20:12	5° Υ 04'46	0.68509 AU	inferior conj	9495 Mar 06 13:36	18° Υ 36'42	1°38'43
	9494 Mar 25 18:31	30° Υ		minimum elong	9495 Mar 06 11:37	18° Υ 43'22	1°38'07
morning rise	9494 Mar 27 10:25	28° Υ 24'02		morning rise	9495 Mar 11 22:11	12° Υ 36'16	
direct	9494 Mar 31 20:02	26° Υ 37'02		direct	9495 Mar 15 18:50	11° Υ 11'06	
	9494 Apr 07 18:00	0° Υ		morning max el	9495 Mar 23 09:12	15° Υ 27'21	20°02'41
morning max el	9494 Apr 09 10:59	1° Υ 35'59	21°16'16		9495 Apr 03 19:51	0° Υ	
desc. node	9494 Apr 17 14:31	11° Υ 18'20		desc. node	9495 Apr 04 11:23	0° Υ 55'49	
	9494 Apr 30 16:46	0° Υ		morning set	9495 Apr 19 15:18	23° Υ 41'39	
morning set	9494 May 10 15:38	15° Υ 17'21			9495 Apr 23 16:53	0° Υ	
max. Earth dist.	9494 May 17 16:19	26° Υ 34'39	1.42449 AU	max. Earth dist.	9495 Apr 30 01:57	10° Υ 03'31	1.44149 AU
	9494 May 19 18:08	0° Υ					
superior conj	9494 May 25 00:15	8° Υ 51'56	-1°58'33	superior conj	9495 May 05 15:22	19° Υ 01'44	-2°11'55
minimum elong	9494 May 25 06:01	9° Υ 16'37	1°58'25	minimum elong	9495 May 05 17:10	19° Υ 09'06	2°12'07
evening rise	9494 Jun 05 09:48	29° Υ 02'40			9495 May 12 06:11	0° Υ	
	9494 Jun 05 22:29	0° Υ		evening rise	9495 May 18 17:20	11° Υ 00'28	
asc. node	9494 Jun 10 08:02	7° Υ 53'14		asc. node	9495 May 28 05:04	27° Υ 03'04	
evening max el	9494 Jun 21 19:52	24° Υ 53'46	18°06'49		9495 May 30 02:12	0° Υ	
retrograde	9494 Jun 28 13:50	28° Υ 19'56		evening max el	9495 Jun 05 09:20	8° Υ 09'32	18°07'36
evening set	9494 Jul 01 01:10	27° Υ 52'32		retrograde	9495 Jun 11 18:44	11° Υ 29'55	
inferior conj	9494 Jul 07 20:37	22° Υ 58'36	1°52'21	evening set	9495 Jun 14 13:48	10° Υ 50'02	
minimum elong	9494 Jul 07 23:28	22° Υ 51'57	1°51'12	inferior conj	9495 Jun 20 18:52	5° Υ 36'58	2°41'55
min. Earth dist.	9494 Jul 11 03:00	19° Υ 56'30	0.60427 AU	minimum elong	9495 Jun 20 21:28	5° Υ 30'02	2°41'01
morning rise	9494 Jul 14 18:57	17° Υ 06'21		min. Earth dist.	9495 Jun 23 14:32	2° Υ 37'50	0.62659 AU
desc. node	9494 Jul 14 14:03	17° Υ 14'14			9495 Jun 26 10:52	30° Υ	
direct	9494 Jul 21 08:17	15° Υ 00'33		morning rise	9495 Jun 27 03:22	29° Υ 28'05	
morning max el	9494 Aug 04 15:47	22° Υ 57'14	27°49'40	desc. node	9495 Jul 01 11:07	27° Υ 17'16	
	9494 Aug 10 22:09	0° Υ		direct	9495 Jul 03 21:07	26° Υ 58'30	
	9494 Aug 30 03:07	0° Υ			9495 Jul 12 01:22	0° Υ	
morning set	9494 Sep 06 03:58	13° Υ 53'27		morning max el	9495 Jul 17 22:29	5° Υ 00'56	27°53'30
asc. node	9494 Sep 06 07:47	14° Υ 13'19			9495 Aug 05 17:25	0° Υ	
max. Earth dist.	9494 Sep 12 05:36	26° Υ 56'32	1.31646 AU	morning set	9495 Aug 21 02:50	27° Υ 53'42	
					9495 Aug 22 03:37	0° Υ	
superior conj	9494 Sep 13 09:20	29° Υ 29'42	1°05'57	asc. node	9495 Aug 24 04:39	4° Υ 14'44	
minimum elong	9494 Sep 13 07:06	29° Υ 17'20	1°05'33	max. Earth dist.	9495 Aug 26 10:37	9° Υ 01'34	1.32214 AU
	9494 Sep 13 14:49	0° Υ					
evening rise	9494 Sep 20 02:57	14° Υ 17'17		superior conj	9495 Aug 28 18:02	14° Υ 01'33	0°44'28
	9494 Sep 27 21:45	0° Υ		minimum elong	9495 Aug 28 16:10	13° Υ 51'23	0°44'00
desc. node	9494 Oct 10 12:24	20° Υ 03'29		evening rise	9495 Sep 04 14:23	28° Υ 57'21	
evening max el	9494 Oct 17 08:31	27° Υ 47'10	25°30'33		9495 Sep 05 02:07	0° Υ	
	9494 Oct 19 21:01	0° Υ			9495 Sep 21 20:39	0° Υ	
retrograde	9494 Oct 31 06:14	4° Υ 47'57		desc. node	9495 Sep 27 09:34	6° Υ 43'02	
evening set	9494 Nov 06 06:23	3° Υ 24'44		evening max el	9495 Sep 28 20:35	8° Υ 11'16	23°56'31
min. Earth dist.	9494 Nov 10 20:50	0° Υ 46'47	0.57642 AU	retrograde	9495 Oct 12 11:47	15° Υ 00'24	
	9494 Nov 12 00:23	30° Υ		evening set	9495 Oct 17 05:29	14° Υ 11'19	
inferior conj	9494 Nov 13 20:12	28° Υ 43'58	-5°12'23	min. Earth dist.	9495 Oct 23 07:06	11° Υ 13'27	0.55938 AU
minimum elong	9494 Nov 14 02:42	28° Υ 32'43	5°11'01	inferior conj	9495 Oct 25 11:32	9° Υ 54'02	-5°40'36
morning rise	9494 Nov 22 01:19	24° Υ 27'09		minimum elong	9495 Oct 25 12:24	9° Υ 52'43	5°40'23
direct	9494 Nov 24 09:08	24° Υ 10'40		morning rise	9495 Nov 02 21:18	5° Υ 57'16	
morning max el	9494 Dec 03 04:14	28° Υ 24'50	18°54'34	direct	9495 Nov 05 15:03	5° Υ 38'08	
asc. node	9494 Dec 03 07:39	28° Υ 33'08		morning max el	9495 Nov 15 20:21	10° Υ 27'53	19°59'25
	9494 Dec 04 16:47	0° Υ		asc. node	9495 Nov 20 04:38	15° Υ 24'42	
morning set	9494 Dec 19 15:41	24° Υ 53'12			9495 Nov 29 01:44	0° Υ	
	9494 Dec 22 05:59	0° Υ		morning set	9495 Dec 03 20:36	9° Υ 28'24	
superior conj	9494 Dec 28 02:39	11° Υ 23'30	1°07'10				
minimum elong	9494 Dec 28 05:52	11° Υ 38'48	1°07'05	superior conj	9495 Dec 11 14:00	25° Υ 11'08	1°25'53
max. Earth dist.	9495 Jan 04 03:07	24° Υ 19'31	1.39189 AU	minimum elong	9495 Dec 11 16:31	25° Υ 23'44	1°25'58
desc. node	9495 Jan 06 11:17	28° Υ 26'06			9495 Dec 14 00:27	0° Υ	
	9495 Jan 07 09:02	0° Υ		max. Earth dist.	9495 Dec 17 09:38	6° Υ 29'34	1.37031 AU
evening rise	9495 Jan 08 00:32	1° Υ 06'22		evening rise	9495 Dec 21 03:55	13° Υ 25'19	
	9495 Jan 26 13:37	0° Υ		desc. node	9495 Dec 24 08:16	19° Υ 02'32	
evening max el	9495 Feb 12 04:56	20° Υ 41'14	24°24'10		9495 Dec 30 22:07	0° Υ	
retrograde	9495 Feb 23 14:40	27° Υ 21'49			9496 Jan 21 12:25	0° Υ	
				evening max el	9496 Jan 25 18:15	4° Υ 30'15	25°37'50
				retrograde	9496 Feb 07 02:11	11° Υ 35'00	

evening set	9496 Feb 13 01:06	9° X 08'04		evening set	9497 Jan 26 18:56	22° \approx 58'41	
asc. node	9496 Feb 16 03:37	5° X 56'24		min. Earth dist.	9497 Jan 30 20:52	18° \approx 50'47	0.66239 AU
min. Earth dist.	9496 Feb 17 09:11	4° X 25'35	0.67387 AU	inferior conj	9497 Feb 01 17:39	16° \approx 37'49	-0°05'53
inferior conj	9496 Feb 18 18:12	2° X 40'21	0°50'39	minimum elong	9497 Feb 01 17:49	16° \approx 37'22	0°05'35
minimum elong	9496 Feb 18 16:59	2° X 44'14	0°50'20	transit middle	9497 Feb 01 17:49	16° \approx 37'22	0°05'35
	9496 Feb 20 22:20	30° R \approx		transit begin	9497 Feb 01 15:04	16° \approx 45'31	
morning rise	9496 Feb 24 09:20	26° \approx 48'37		transit end	9497 Feb 01 20:33	16° \approx 29'14	
direct	9496 Feb 27 18:08	25° \approx 43'35		asc. node	9497 Feb 02 00:46	16° \approx 16'44	
morning max el	9496 Mar 05 15:20	29° \approx 29'32	19°03'54	morning rise	9497 Feb 07 17:40	10° \approx 56'51	
	9496 Mar 06 03:25	0° X		direct	9497 Feb 10 16:05	10° \approx 08'57	
greatest brilliancy	9496 Mar 19 02:54	17° X 34'21	-0.7m	morning max el	9497 Feb 17 03:58	13° \approx 37'18	18°21'22
desc. node	9496 Mar 21 08:15	20° X 57'19			9497 Mar 01 02:55	0° X	
	9496 Mar 27 05:10	0° Y		desc. node	9497 Mar 08 05:07	11° X 15'58	
morning set	9496 Mar 28 18:42	2° Y 25'19		morning set	9497 Mar 08 22:02	12° X 23'29	
max. Earth dist.	9496 Apr 11 18:05	24° Y 12'07	1.45235 AU		9497 Mar 20 00:37	0° Y	
superior conj	9496 Apr 14 07:56	28° Y 15'41	-2°07'12	superior conj	9497 Mar 24 13:31	7° Y 07'01	-1°42'23
minimum elong	9496 Apr 14 02:33	27° Y 54'26	2°07'08	minimum elong	9497 Mar 24 03:57	6° Y 29'35	1°41'32
	9496 Apr 15 10:19	0° Z		max. Earth dist.	9497 Mar 25 13:21	8° Y 40'17	1.45596 AU
evening rise	9496 Apr 29 02:30	22° Z 00'47			9497 Apr 08 04:26	0° Z	
	9496 May 03 23:37	0° II		evening rise	9497 Apr 09 12:09	2° Z 04'32	
asc. node	9496 May 14 02:07	15° II 44'22		greatest brilliancy	9497 Apr 19 20:57	18° Z 17'00	-0.8m
evening max el	9496 May 18 22:15	21° II 39'03	18°26'42		9497 Apr 27 21:38	0° II	
retrograde	9496 May 25 08:53	25° II 07'45		asc. node	9497 Apr 30 23:13	3° II 47'37	
evening set	9496 May 28 11:31	24° II 13'54		evening max el	9497 May 02 08:04	5° II 15'35	19°03'22
inferior conj	9496 Jun 03 06:14	18° II 43'25	3°09'41	retrograde	9497 May 09 04:34	9° II 05'23	
minimum elong	9496 Jun 03 07:45	18° II 38'54	3°09'10	evening set	9497 May 12 15:04	7° II 56'44	
min. Earth dist.	9496 Jun 05 11:26	16° II 06'42	0.64660 AU	inferior conj	9497 May 18 03:00	2° II 10'32	3°20'06
morning rise	9496 Jun 09 03:01	12° II 26'12		minimum elong	9497 May 18 03:17	2° II 09'41	3°19'48
direct	9496 Jun 15 18:13	9° II 43'25		min. Earth dist.	9497 May 19 17:01	0° II 09'15	0.66294 AU
desc. node	9496 Jun 17 08:10	9° II 51'43			9497 May 19 19:57	30° R Z	
morning max el	9496 Jun 29 08:31	17° II 41'24	27°21'43	morning rise	9497 May 23 14:59	25° Z 50'49	
	9496 Jul 09 15:24	0° S		direct	9497 May 29 22:27	23° Z 06'06	
	9496 Jul 28 14:51	0° Q		desc. node	9497 Jun 04 05:11	24° Z 39'13	
morning set	9496 Aug 03 17:00	11° Q 26'25			9497 Jun 11 00:39	0° II	
max. Earth dist.	9496 Aug 08 07:54	20° Q 43'36	1.33275 AU	morning max el	9497 Jun 11 19:13	0° II 46'16	26°21'11
asc. node	9496 Aug 10 01:33	24° Q 20'10			9497 Jul 03 15:33	0° S	
superior conj	9496 Aug 11 22:14	28° Q 16'06	0°18'33	morning set	9497 Jul 17 19:06	24° S 22'11	
minimum elong	9496 Aug 11 21:19	28° Q 11'14	0°18'10		9497 Jul 20 18:05	0° Q	
	9496 Aug 12 17:44	0° P		max. Earth dist.	9497 Jul 21 18:36	1° Q 59'18	1.34823 AU
evening rise	9496 Aug 19 01:32	13° P 33'18		superior conj	9497 Jul 26 19:31	12° Q 06'20	-0°11'08
	9496 Aug 27 08:14	0° A		minimum elong	9497 Jul 26 20:10	12° Q 09'40	0°11'16
evening max el	9496 Sep 09 08:45	18° A 20'58	22°16'42	behind sun begin	9497 Jul 26 15:54	11° Q 47'45	
desc. node	9496 Sep 13 06:44	21° A 38'01		behind sun end	9497 Jul 27 00:26	12° Q 31'35	
retrograde	9496 Sep 22 05:31	24° A 45'32		asc. node	9497 Jul 27 22:28	14° Q 25'15	
evening set	9496 Sep 25 11:25	24° A 22'13		evening rise	9497 Aug 03 10:24	27° Q 58'46	
min. Earth dist.	9496 Oct 03 14:40	20° A 47'37	0.54873 AU		9497 Aug 04 09:51	0° P	
inferior conj	9496 Oct 04 09:55	20° A 20'31	-5°18'56	evening max el	9497 Aug 22 06:06	28° P 52'20	20°46'43
minimum elong	9496 Oct 04 03:00	20° A 30'16	5°17'47		9497 Aug 23 10:55	0° A	
morning rise	9496 Oct 12 20:16	16° A 33'15		desc. node	9497 Aug 31 03:54	4° A 17'07	
direct	9496 Oct 16 04:25	16° A 08'20		retrograde	9497 Sep 02 17:39	4° A 33'53	
morning max el	9496 Oct 27 23:08	21° A 40'58	21°26'11	evening set	9497 Sep 04 21:43	4° A 22'31	
	9496 Nov 03 22:28	0° M		inferior conj	9497 Sep 14 02:09	0° A 26'09	-4°01'48
asc. node	9496 Nov 06 01:36	3° M 13'27		minimum elong	9497 Sep 13 16:29	0° A 39'58	3°58'58
morning set	9496 Nov 17 05:44	24° M 13'24			9497 Sep 14 20:27	30° R P	
	9496 Nov 19 23:42	0° Z		min. Earth dist.	9497 Sep 14 23:18	29° P 55'55	0.54686 AU
superior conj	9496 Nov 24 11:35	9° Z 27'06	1°36'44	morning rise	9497 Sep 22 11:13	26° P 28'10	
minimum elong	9496 Nov 24 12:55	9° Z 34'06	1°36'59	direct	9497 Sep 26 12:15	25° P 53'07	
max. Earth dist.	9496 Nov 28 20:39	18° Z 23'13	1.35089 AU		9497 Oct 07 01:25	0° A	
evening rise	9496 Dec 03 00:31	26° Z 29'00		morning max el	9497 Oct 09 15:11	2° A 11'30	23°09'03
	9496 Dec 04 21:38	0° Z		asc. node	9497 Oct 23 22:33	21° A 45'42	
desc. node	9496 Dec 10 05:16	9° Z 28'39			9497 Oct 28 07:39	0° M	
	9496 Dec 23 07:43	0° \approx		morning set	9497 Nov 01 17:04	9° M 02'15	
evening max el	9497 Jan 07 07:33	18° \approx 14'12	26°38'05	superior conj	9497 Nov 08 16:11	24° M 01'50	1°40'33
retrograde	9497 Jan 20 08:22	25° \approx 32'33		minimum elong	9497 Nov 08 16:16	24° M 02'20	1°40'49

	9497 Nov 11 11:33	0°♊		minimum elong	9498 Oct 24 00:11	8°♍41'24	1°38'12
max. Earth dist.	9497 Nov 11 15:18	0°♊19'38	1.33513 AU	max. Earth dist.	9498 Oct 25 17:45	12°♍28'36	1.32386 AU
evening rise	9497 Nov 16 10:36	10°♊08'13		evening rise	9498 Oct 31 06:44	24°♍13'29	
desc. node	9497 Nov 27 02:19	29°♊39'15			9498 Nov 03 03:41	0°♊	
	9497 Nov 27 07:15	0°♋		desc. node	9498 Nov 13 23:25	19°♊26'50	
	9497 Dec 19 02:21	0°♌			9498 Nov 20 21:55	0°♋	
evening max el	9497 Dec 20 20:29	1°♌44'38	27°17'45	evening max el	9498 Dec 03 07:33	14°♋49'16	27°30'03
retrograde	9498 Jan 03 08:42	9°♌06'49		retrograde	9498 Dec 17 02:10	22°♋07'41	
evening set	9498 Jan 10 04:34	6°♌32'18		evening set	9498 Dec 24 03:07	19°♋40'50	
min. Earth dist.	9498 Jan 14 01:15	2°♌57'29	0.64734 AU	min. Earth dist.	9498 Dec 27 20:23	16°♋35'24	0.62924 AU
inferior conj	9498 Jan 16 09:40	0°♌24'20	-1°10'14	inferior conj	9498 Dec 30 15:23	13°♋52'17	-2°20'45
minimum elong	9498 Jan 16 11:48	0°♌18'32	1°09'02	minimum elong	9498 Dec 30 19:57	13°♋41'09	2°18'36
	9498 Jan 16 18:39	30°♌♋		morning rise	9499 Jan 06 14:56	8°♋40'40	
asc. node	9498 Jan 19 21:54	26°♋53'38		asc. node	9499 Jan 06 19:02	8°♋37'10	
morning rise	9498 Jan 22 20:41	24°♋56'38		direct	9499 Jan 08 22:27	8°♋15'38	
direct	9498 Jan 25 10:30	24°♋22'07		morning max el	9499 Jan 15 14:02	11°♋40'27	17°47'19
morning max el	9498 Jan 31 20:34	27°♋43'55	17°55'38		9499 Jan 27 23:54	0°♌	
	9498 Feb 02 22:09	0°♍		morning set	9499 Jan 31 16:21	6°♌25'47	
morning set	9498 Feb 18 06:46	23°♌48'54		desc. node	9499 Feb 09 22:51	22°♌25'33	
	9498 Feb 22 00:05	0°♎					
desc. node	9498 Feb 23 01:58	1°♎46'56		superior conj	9499 Feb 12 14:10	26°♌50'43	-0°19'31
				minimum elong	9499 Feb 12 12:11	26°♌42'27	0°19'00
superior conj	9498 Mar 04 02:59	16°♎27'08	-1°03'08		9499 Feb 14 11:58	0°♎	
minimum elong	9498 Mar 03 19:54	15°♎58'53	1°02'06	max. Earth dist.	9499 Feb 19 02:12	7°♎27'26	1.44141 AU
max. Earth dist.	9498 Mar 08 08:47	23°♎10'29	1.45215 AU	evening rise	9499 Feb 27 15:50	20°♎55'06	
	9498 Mar 12 17:25	0°♏			9499 Mar 05 14:52	0°♏	
evening rise	9498 Mar 20 04:07	11°♏30'53			9499 Mar 27 02:49	0°♏	
	9498 Apr 01 08:22	0°♐		evening max el	9499 Mar 29 12:38	2°♏37'04	21°02'30
greatest brilliancy	9498 Apr 03 19:22	3°♏37'40	-0.6m	asc. node	9499 Apr 04 17:34	7°♏10'30	
evening max el	9498 Apr 15 13:07	18°♏55'45	19°56'09	retrograde	9499 Apr 07 01:23	7°♏37'30	
asc. node	9498 Apr 17 20:23	21°♏01'19		evening set	9499 Apr 11 06:14	5°♏58'09	
retrograde	9498 Apr 23 02:50	23°♏17'10			9499 Apr 16 09:12	30°♏♐	
evening set	9498 Apr 26 21:58	21°♏53'17		inferior conj	9499 Apr 16 13:14	29°♏46'04	3°01'39
inferior conj	9498 May 02 06:12	15°♏53'10	3°16'37	minimum elong	9499 Apr 16 11:33	29°♏51'53	3°01'15
minimum elong	9498 May 02 05:21	15°♏56'02	3°16'20	min. Earth dist.	9499 Apr 16 23:05	29°♏11'54	0.68243 AU
min. Earth dist.	9498 May 03 05:38	14°♏34'14	0.67496 AU	morning rise	9499 Apr 21 16:39	23°♏30'55	
morning rise	9498 May 07 12:25	9°♏34'35		direct	9499 Apr 26 23:57	21°♏10'32	
direct	9498 May 13 08:46	6°♏58'11		morning max el	9499 May 07 14:17	27°♏29'37	23°32'24
desc. node	9498 May 22 02:09	11°♏09'41		desc. node	9499 May 08 23:05	28°♏55'09	
morning max el	9498 May 25 04:57	14°♏04'30	25°01'20		9499 May 09 22:45	0°♏	
	9498 Jun 07 03:51	0°♐			9499 May 31 19:20	0°♐	
	9498 Jun 26 11:29	0°♑		morning set	9499 Jun 11 16:45	17°♐35'53	
morning set	9498 Jun 30 04:47	6°♑30'01		max. Earth dist.	9499 Jun 15 15:37	24°♐24'03	1.39037 AU
max. Earth dist.	9498 Jul 03 19:18	13°♑02'35	1.36800 AU		9499 Jun 18 19:18	0°♑	
superior conj	9498 Jul 10 06:59	25°♑25'31	-0°43'15	superior conj	9499 Jun 23 04:55	8°♑04'34	-1°15'42
minimum elong	9498 Jul 10 09:42	25°♑38'52	0°43'04	minimum elong	9499 Jun 23 09:48	8°♑27'26	1°15'18
	9498 Jul 12 14:22	0°♒		asc. node	9499 Jul 01 16:26	24°♑20'18	
asc. node	9498 Jul 14 19:26	4°♒26'35		evening rise	9499 Jul 02 11:40	25°♑53'42	
evening rise	9498 Jul 18 14:44	12°♒08'02			9499 Jul 04 14:40	0°♒	
	9498 Jul 28 03:05	0°♓		evening max el	9499 Jul 18 16:21	22°♒08'16	18°44'46
evening max el	9498 Aug 04 17:06	10°♓07'32	19°35'14	retrograde	9499 Jul 26 21:59	26°♒14'10	
retrograde	9498 Aug 14 11:32	14°♓57'37		evening set	9499 Jul 28 21:45	26°♒00'41	
evening set	9498 Aug 16 07:45	14°♓48'03		desc. node	9499 Aug 04 22:14	22°♒22'56	
desc. node	9498 Aug 18 01:05	14°♓22'52		inferior conj	9499 Aug 05 22:34	21°♒38'41	-0°18'38
inferior conj	9498 Aug 25 02:52	10°♓43'55	-2°10'31	minimum elong	9499 Aug 05 21:48	21°♒40'04	0°18'33
minimum elong	9498 Aug 24 20:58	10°♓53'14	2°08'26	min. Earth dist.	9499 Aug 09 02:45	19°♒19'37	0.57043 AU
min. Earth dist.	9498 Aug 27 10:54	9°♓15'33	0.55462 AU	morning rise	9499 Aug 13 18:28	16°♒34'10	
morning rise	9498 Sep 02 07:52	6°♓16'25		direct	9499 Aug 19 10:25	15°♒15'53	
direct	9498 Sep 07 04:22	5°♓23'46		morning max el	9499 Sep 02 17:34	22°♒43'32	26°27'06
morning max el	9498 Sep 21 02:59	12°♓22'05	24°55'02		9499 Sep 09 05:15	0°♓	
	9498 Oct 04 16:40	0°♔		asc. node	9499 Sep 27 16:23	0°♔19'39	
asc. node	9498 Oct 10 19:28	10°♔50'32			9499 Sep 27 12:27	0°♔	
morning set	9498 Oct 17 04:47	23°♔49'22		morning set	9499 Oct 01 15:18	8°♔30'39	
	9498 Oct 20 01:17	0°♕					
				superior conj	9499 Oct 08 12:32	23°♔36'08	1°29'47
superior conj	9498 Oct 24 01:11	8°♕46'54	1°38'03	minimum elong	9499 Oct 08 10:44	23°♔26'08	1°29'42

max. Earth dist.	9499 Oct 09 01:45	24° Ω 49'27	1.31732 AU	superior conj	9500 Sep 23 00:15	8° Ω 22'44	1°16'07
	9499 Oct 11 10:00	0° \mathbb{M}		minimum elong	9500 Sep 22 22:02	8° Ω 10'28	1°15'49
evening rise	9499 Oct 15 10:04	8° \mathbb{M} 37'20		evening rise	9500 Sep 29 18:08	23° Ω 11'51	
	9499 Oct 26 12:47	0° \mathbb{A}			9500 Oct 03 00:15	0° \mathbb{M}	
desc. node	9499 Oct 31 20:32	8° \mathbb{A} 42'12		desc. node	9500 Oct 18 17:40	27° \mathbb{M} 11'50	
evening max el	9499 Nov 15 14:10	27° \mathbb{A} 15'00	27°09'41		9500 Oct 20 19:03	0° \mathbb{A}	
	9499 Nov 18 18:53	0° \mathbb{B}		evening max el	9500 Oct 28 13:28	8° \mathbb{A} 50'21	26°15'18
retrograde	9499 Nov 29 11:27	4° \mathbb{B} 26'09		retrograde	9500 Nov 11 11:24	15° \mathbb{A} 54'51	
evening set	9499 Dec 06 11:04	2° \mathbb{B} 16'38		evening set	9500 Nov 17 23:54	14° \mathbb{A} 12'13	
	9499 Dec 09 15:39	30° \mathbb{R} \mathbb{A}		min. Earth dist.	9500 Nov 22 02:33	11° \mathbb{A} 37'39	0.58798 AU
min. Earth dist.	9499 Dec 10 04:50	29° \mathbb{A} 33'07	0.60899 AU	inferior conj	9500 Nov 25 06:24	9° \mathbb{A} 16'22	-4°41'06
inferior conj	9499 Dec 13 07:29	26° \mathbb{A} 53'06	-3°33'36	minimum elong	9500 Nov 25 14:01	9° \mathbb{A} 02'08	4°38'59
minimum elong	9499 Dec 13 14:20	26° \mathbb{A} 38'23	3°30'58	morning rise	9500 Dec 03 06:34	4° \mathbb{A} 46'41	
morning rise	9499 Dec 20 20:04	22° \mathbb{A} 00'58		direct	9500 Dec 05 11:42	4° \mathbb{A} 30'03	
direct	9499 Dec 23 00:21	21° \mathbb{A} 41'45		asc. node	9500 Dec 11 13:05	6° \mathbb{A} 42'52	
asc. node	9499 Dec 24 16:05	21° \mathbb{A} 53'16		morning max el	9500 Dec 13 14:05	8° \mathbb{A} 27'21	18°27'39
morning max el	9499 Dec 30 05:04	25° \mathbb{A} 18'15	17°57'29		9500 Dec 27 11:14	0° \mathbb{B}	
	9500 Jan 03 03:10	0° \mathbb{B}		morning set	9500 Dec 29 12:55	3° \mathbb{B} 57'28	
morning set	9500 Jan 14 20:16	19° \mathbb{B} 54'17					
	9500 Jan 20 08:51	0° \approx		superior conj	9501 Jan 07 13:15	21° \mathbb{B} 04'43	0°52'33
				minimum elong	9501 Jan 07 16:24	21° \mathbb{B} 19'16	0°52'25
superior conj	9500 Jan 25 02:40	8° \approx 26'27	0°20'21		9501 Jan 12 11:41	0° \approx	
minimum elong	9500 Jan 25 04:21	8° \approx 33'51	0°20'22	desc. node	9501 Jan 14 16:42	3° \approx 51'47	
desc. node	9500 Jan 27 19:46	13° \approx 08'25		max. Earth dist.	9501 Jan 15 00:46	4° \approx 26'39	1.40441 AU
max. Earth dist.	9500 Feb 01 15:52	21° \approx 17'03	1.42490 AU	evening rise	9501 Jan 19 08:29	11° \approx 45'06	
	9500 Feb 07 00:52	0° \mathbb{H}			9501 Jan 30 22:20	0° \mathbb{H}	
evening rise	9500 Feb 07 14:19	0° \mathbb{H} 53'26			9501 Feb 22 19:46	0° \mathbb{Y}	
	9500 Feb 27 03:26	0° \mathbb{Y}		evening max el	9501 Feb 22 21:58	0° \mathbb{Y} 05'29	23°38'34
evening max el	9500 Mar 12 07:05	16° \mathbb{Y} 20'00	22°18'23	retrograde	9501 Mar 05 16:46	6° \mathbb{Y} 27'15	
retrograde	9500 Mar 21 22:27	22° \mathbb{Y} 02'20		asc. node	9501 Mar 09 11:50	5° \mathbb{Y} 18'06	
asc. node	9500 Mar 22 14:43	22° \mathbb{Y} 00'03		evening set	9501 Mar 10 20:15	4° \mathbb{Y} 18'18	
evening set	9500 Mar 26 14:10	20° \mathbb{Y} 07'43			9501 Mar 14 16:27	30° \mathbb{R} \mathbb{H}	
inferior conj	9500 Mar 31 21:59	13° \mathbb{Y} 46'12	2°36'40	min. Earth dist.	9501 Mar 15 15:50	28° \mathbb{H} 41'13	0.68409 AU
minimum elong	9500 Mar 31 19:51	13° \mathbb{Y} 53'39	2°36'06	inferior conj	9501 Mar 16 06:36	27° \mathbb{H} 50'40	2°02'29
min. Earth dist.	9500 Mar 31 19:12	13° \mathbb{Y} 55'53	0.68543 AU	minimum elong	9501 Mar 16 04:25	27° \mathbb{H} 58'08	2°01'49
morning rise	9500 Apr 06 01:23	7° \mathbb{Y} 35'53		morning rise	9501 Mar 21 12:35	21° \mathbb{H} 46'24	
direct	9500 Apr 10 18:53	5° \mathbb{Y} 36'12		direct	9501 Mar 25 16:33	20° \mathbb{H} 08'57	
morning max el	9500 Apr 20 02:14	11° \mathbb{Y} 02'56	22°03'53	morning max el	9501 Apr 02 20:14	24° \mathbb{H} 48'08	20°43'24
desc. node	9500 Apr 25 19:59	17° \mathbb{Y} 35'14			9501 Apr 07 10:47	0° \mathbb{Y}	
	9500 May 05 00:44	0° \mathbb{B}		desc. node	9501 Apr 12 16:53	6° \mathbb{Y} 55'10	
morning set	9500 May 23 02:18	27° \mathbb{B} 28'08			9501 Apr 28 09:47	0° \mathbb{B}	
	9500 May 24 15:49	0° \mathbb{H}		morning set	9501 May 02 10:52	6° \mathbb{B} 14'25	
max. Earth dist.	9500 May 28 14:54	6° \mathbb{H} 32'17	1.41277 AU	max. Earth dist.	9501 May 10 20:48	19° \mathbb{B} 34'48	1.43238 AU
					9501 May 17 04:46	0° \mathbb{H}	
superior conj	9500 Jun 05 08:45	19° \mathbb{H} 52'08	-1°45'02				
minimum elong	9500 Jun 05 14:54	20° \mathbb{H} 19'22	1°44'42	superior conj	9501 May 17 14:04	0° \mathbb{H} 38'57	-2°06'04
	9500 Jun 10 23:34	0° \mathbb{B}		minimum elong	9501 May 17 18:42	0° \mathbb{H} 58'25	2°06'06
evening rise	9500 Jun 15 21:38	9° \mathbb{B} 05'59		evening rise	9501 May 29 16:17	21° \mathbb{H} 34'46	
asc. node	9500 Jun 18 13:26	14° \mathbb{B} 01'16			9501 Jun 03 11:00	0° \mathbb{B}	
	9500 Jun 28 01:23	0° \mathbb{Q}		asc. node	9501 Jun 05 10:28	3° \mathbb{B} 24'36	
evening max el	9500 Jul 02 00:04	4° \mathbb{Q} 45'21	18°14'55	evening max el	9501 Jun 15 12:24	17° \mathbb{B} 49'39	18°04'46
retrograde	9500 Jul 09 03:45	8° \mathbb{Q} 21'46		retrograde	9501 Jun 22 01:36	21° \mathbb{B} 11'56	
evening set	9500 Jul 11 10:38	8° \mathbb{Q} 00'21		evening set	9501 Jun 24 16:09	20° \mathbb{B} 39'33	
inferior conj	9500 Jul 18 16:01	3° \mathbb{Q} 17'34	1°12'17	inferior conj	9501 Jul 01 04:58	15° \mathbb{B} 37'05	2°16'21
minimum elong	9500 Jul 18 18:15	3° \mathbb{Q} 12'45	1°11'14	minimum elong	9501 Jul 01 07:52	15° \mathbb{B} 29'53	2°15'15
min. Earth dist.	9500 Jul 22 00:53	0° \mathbb{Q} 24'48	0.59129 AU	min. Earth dist.	9501 Jul 04 07:24	12° \mathbb{B} 33'30	0.61390 AU
desc. node	9500 Jul 22 19:21	29° \mathbb{B} 47'56		morning rise	9501 Jul 07 21:13	9° \mathbb{B} 36'12	
	9500 Jul 22 13:13	30° \mathbb{R} \mathbb{B}		desc. node	9501 Jul 09 16:27	8° \mathbb{B} 32'06	
morning rise	9500 Jul 25 22:40	27° \mathbb{B} 39'49		direct	9501 Jul 14 13:06	7° \mathbb{B} 19'26	
direct	9500 Aug 01 05:53	25° \mathbb{B} 51'22		morning max el	9501 Jul 28 18:55	15° \mathbb{B} 20'03	27°56'00
	9500 Aug 11 10:21	0° \mathbb{Q}			9501 Aug 09 17:31	0° \mathbb{Q}	
morning max el	9500 Aug 15 14:50	3° \mathbb{Q} 39'28	27°30'11		9501 Aug 27 11:10	0° \mathbb{H}	
	9500 Sep 03 21:42	0° \mathbb{H}		morning set	9501 Aug 31 01:31	7° \mathbb{H} 13'14	
asc. node	9500 Sep 14 13:15	20° \mathbb{H} 05'27		asc. node	9501 Sep 01 10:09	10° \mathbb{H} 02'39	
morning set	9500 Sep 15 22:50	23° \mathbb{H} 00'17		max. Earth dist.	9501 Sep 05 19:35	19° \mathbb{H} 27'40	1.31830 AU
	9500 Sep 19 05:07	0° \mathbb{Q}					
max. Earth dist.	9500 Sep 22 11:40	7° \mathbb{Q} 12'50	1.31545 AU	superior conj	9501 Sep 07 10:35	23° \mathbb{H} 01'31	0°57'23


































































































































minimum elong	9501 Sep 07 08:26	22° \mathbb{M} 49'43	0°56'57	superior conj	9502 Aug 22 17:39	7° \mathbb{M} 26'59	0°33'58
	9501 Sep 10 14:26	0° \mathbb{A}		minimum elong	9502 Aug 22 16:07	7° \mathbb{M} 18'42	0°33'32
evening rise	9501 Sep 14 04:53	7° \mathbb{A} 51'17		evening rise	9502 Aug 29 16:26	22° \mathbb{M} 30'13	
	9501 Sep 25 13:58	0° \mathbb{M}			9502 Sep 02 06:35	0° \mathbb{A}	
desc. node	9501 Oct 05 14:49	14° \mathbb{M} 38'11		evening max el	9502 Sep 21 15:34	29° \mathbb{A} 49'20	23°13'47
evening max el	9501 Oct 10 04:35	19° \mathbb{M} 35'24	24°52'14		9502 Sep 21 20:00	0° \mathbb{M}	
retrograde	9501 Oct 24 00:32	26° \mathbb{M} 32'52		desc. node	9502 Sep 22 11:59	0° \mathbb{M} 37'24	
evening set	9501 Oct 29 13:11	25° \mathbb{M} 24'10		retrograde	9502 Oct 05 01:16	6° \mathbb{M} 30'42	
min. Earth dist.	9501 Nov 03 15:59	22° \mathbb{M} 40'05	0.56855 AU	evening set	9502 Oct 09 03:14	5° \mathbb{M} 54'23	
inferior conj	9501 Nov 06 09:22	20° \mathbb{M} 53'55	-5°29'20	min. Earth dist.	9502 Oct 16 01:03	2° \mathbb{M} 42'28	0.55382 AU
minimum elong	9501 Nov 06 14:03	20° \mathbb{M} 46'18	5°28'35	inferior conj	9502 Oct 17 16:46	1° \mathbb{M} 44'34	-5°38'28
morning rise	9501 Nov 14 17:11	16° \mathbb{M} 46'44		minimum elong	9502 Oct 17 14:12	1° \mathbb{M} 48'20	5°38'09
direct	9501 Nov 17 04:25	16° \mathbb{M} 29'37			9502 Oct 20 19:06	30° \mathbb{R} \mathbb{A}	
morning max el	9501 Nov 26 13:23	20° \mathbb{M} 57'34	19°19'30	morning rise	9502 Oct 26 03:05	27° \mathbb{A} 53'34	
asc. node	9501 Nov 28 10:05	22° \mathbb{M} 54'29		direct	9502 Oct 29 02:17	27° \mathbb{A} 32'31	
	9501 Dec 03 14:39	0° \mathbb{A}			9502 Nov 05 15:40	0° \mathbb{M}	
morning set	9501 Dec 13 14:14	18° \mathbb{A} 23'19		morning max el	9502 Nov 08 23:59	2° \mathbb{M} 40'27	20°33'52
	9501 Dec 19 09:42	0° \mathbb{B}		asc. node	9502 Nov 15 07:04	10° \mathbb{M} 12'41	
					9502 Nov 26 09:18	0° \mathbb{A}	
superior conj	9501 Dec 21 16:55	4° \mathbb{B} 30'59	1°16'07	morning set	9502 Nov 27 21:15	3° \mathbb{A} 03'47	
minimum elong	9501 Dec 21 19:56	4° \mathbb{B} 45'38	1°16'06				
max. Earth dist.	9501 Dec 28 06:27	16° \mathbb{B} 53'16	1.38247 AU	superior conj	9502 Dec 05 09:07	18° \mathbb{A} 32'31	1°31'23
evening rise	9502 Jan 01 00:17	23° \mathbb{B} 33'43		minimum elong	9502 Dec 05 11:10	18° \mathbb{A} 42'58	1°31'33
desc. node	9502 Jan 01 13:38	24° \mathbb{B} 31'49		max. Earth dist.	9502 Dec 10 14:00	28° \mathbb{A} 52'37	1.36161 AU
	9502 Jan 04 18:37	0° \mathbb{A}			9502 Dec 11 04:01	0° \mathbb{B}	
	9502 Jan 24 17:10	0° \mathbb{H}		evening rise	9502 Dec 14 11:33	6° \mathbb{B} 13'43	
evening max el	9502 Feb 05 11:12	13° \mathbb{H} 53'16	24°56'43	desc. node	9502 Dec 19 10:37	15° \mathbb{B} 04'49	
retrograde	9502 Feb 17 07:10	20° \mathbb{H} 46'20			9502 Dec 28 14:14	0° \mathbb{A}	
evening set	9502 Feb 22 22:56	18° \mathbb{H} 25'04		evening max el	9503 Jan 19 00:32	27° \mathbb{A} 41'29	26°05'37
asc. node	9502 Feb 24 08:59	17° \mathbb{H} 04'14			9503 Jan 21 13:14	0° \mathbb{H}	
min. Earth dist.	9502 Feb 27 10:49	13° \mathbb{H} 22'36	0.67865 AU	retrograde	9503 Jan 31 16:42	4° \mathbb{H} 53'55	
inferior conj	9502 Feb 28 13:13	11° \mathbb{H} 55'42	1°19'24	evening set	9503 Feb 06 20:34	2° \mathbb{H} 23'36	
minimum elong	9502 Feb 28 11:29	12° \mathbb{H} 01'24	1°18'53		9503 Feb 09 07:31	30° \mathbb{R} \mathbb{A}	
morning rise	9502 Mar 06 00:18	5° \mathbb{H} 58'48		min. Earth dist.	9503 Feb 11 01:57	27° \mathbb{A} 55'39	0.66938 AU
direct	9502 Mar 09 15:38	4° \mathbb{H} 42'43		asc. node	9503 Feb 11 06:08	27° \mathbb{A} 42'51	
morning max el	9502 Mar 16 21:57	8° \mathbb{H} 44'54	19°35'49	inferior conj	9503 Feb 12 15:56	25° \mathbb{A} 57'49	0°27'43
greatest brilliancy	9502 Mar 29 14:40	25° \mathbb{H} 18'37	-0.7m	minimum elong	9503 Feb 12 15:13	26° \mathbb{A} 00'03	0°27'37
desc. node	9502 Mar 30 13:44	26° \mathbb{H} 43'43		morning rise	9503 Feb 18 10:32	20° \mathbb{A} 10'09	
	9502 Apr 01 18:23	0° \mathbb{Y}		direct	9503 Feb 21 14:40	19° \mathbb{A} 12'51	
morning set	9502 Apr 11 09:02	14° \mathbb{Y} 38'18		morning max el	9503 Feb 28 07:04	22° \mathbb{A} 50'15	18°43'44
	9502 Apr 21 06:03	0° \mathbb{B}			9503 Mar 06 04:54	0° \mathbb{H}	
max. Earth dist.	9502 Apr 23 09:06	3° \mathbb{B} 21'19	1.44689 AU	desc. node	9503 Mar 17 10:36	16° \mathbb{H} 53'22	
				morning set	9503 Mar 21 20:53	23° \mathbb{H} 48'57	
superior conj	9502 Apr 27 18:54	10° \mathbb{B} 22'52	-2°12'24		9503 Mar 25 19:41	0° \mathbb{Y}	
minimum elong	9502 Apr 27 17:47	10° \mathbb{B} 18'26	2°12'36	max. Earth dist.	9503 Apr 06 02:24	17° \mathbb{Y} 38'34	1.45480 AU
	9502 May 09 17:44	0° \mathbb{H}					
evening rise	9502 May 11 14:46	3° \mathbb{H} 09'01		superior conj	9503 Apr 07 04:49	19° \mathbb{Y} 22'06	-1°59'00
asc. node	9502 May 23 07:30	22° \mathbb{H} 23'35		minimum elong	9503 Apr 06 20:52	18° \mathbb{Y} 50'56	1°58'35
	9502 May 28 22:40	0° \mathbb{B}			9503 Apr 13 22:56	0° \mathbb{B}	
evening max el	9502 May 30 01:58	1° \mathbb{B} 12'12	18°13'29	evening rise	9503 Apr 22 13:43	13° \mathbb{B} 43'53	
retrograde	9502 Jun 05 10:57	4° \mathbb{B} 34'41		greatest brilliancy	9503 Apr 29 15:49	25° \mathbb{B} 06'16	-0.9m
evening set	9502 Jun 08 09:06	3° \mathbb{B} 49'11			9503 May 02 18:09	0° \mathbb{H}	
	9502 Jun 12 23:58	30° \mathbb{R} \mathbb{H}		asc. node	9503 May 10 04:36	10° \mathbb{H} 50'15	
inferior conj	9502 Jun 14 09:20	28° \mathbb{H} 28'41	2°56'02	evening max el	9503 May 13 13:56	14° \mathbb{H} 45'51	18°40'15
minimum elong	9502 Jun 14 11:32	28° \mathbb{H} 22'32	2°55'19	retrograde	9503 May 20 03:44	18° \mathbb{H} 21'49	
min. Earth dist.	9502 Jun 16 23:11	25° \mathbb{H} 36'43	0.63549 AU	evening set	9503 May 23 09:40	17° \mathbb{H} 21'47	
morning rise	9502 Jun 20 12:30	22° \mathbb{H} 15'07		inferior conj	9503 May 29 01:07	11° \mathbb{H} 44'43	3°15'55
desc. node	9502 Jun 26 13:31	19° \mathbb{H} 39'46		minimum elong	9503 May 29 02:07	11° \mathbb{H} 41'41	3°15'32
direct	9502 Jun 27 05:56	19° \mathbb{H} 38'14		min. Earth dist.	9503 May 30 23:57	9° \mathbb{H} 21'39	0.65412 AU
morning max el	9502 Jul 11 03:29	27° \mathbb{H} 41'10	27°43'53	morning rise	9503 Jun 03 17:48	5° \mathbb{H} 25'59	
	9502 Jul 13 08:14	0° \mathbb{B}		direct	9503 Jun 10 06:25	2° \mathbb{H} 40'43	
	9502 Aug 03 11:23	0° \mathbb{Q}		desc. node	9503 Jun 13 10:34	3° \mathbb{H} 14'22	
morning set	9502 Aug 14 21:05	21° \mathbb{Q} 03'04		morning max el	9503 Jun 23 13:52	10° \mathbb{H} 32'51	26°58'49
asc. node	9502 Aug 19 07:03	0° \mathbb{M} 06'27			9503 Jul 08 22:35	0° \mathbb{B}	
	9502 Aug 19 05:49	0° \mathbb{M}			9503 Jul 26 23:21	0° \mathbb{Q}	
max. Earth dist.	9502 Aug 19 21:34	1° \mathbb{M} 22'56	1.32600 AU	morning set	9503 Jul 29 06:35	4° \mathbb{Q} 21'27	
				max. Earth dist.	9503 Aug 02 14:17	12° \mathbb{Q} 52'16	1.33875 AU

asc. node	9503 Aug 06 03:58	20°♎12'22		morning set	9504 Jul 11 02:20	16°♊58'53	
				max. Earth dist.	9504 Jul 14 20:38	24°♊01'38	1.35623 AU
superior conj	9503 Aug 06 19:17	21°♎32'31	0°06'23		9504 Jul 17 22:26	0°♎	
minimum elong	9503 Aug 06 18:58	21°♎30'49	0°06'05				
behind sun begin	9503 Aug 06 13:41	21°♎03'09		superior conj	9504 Jul 20 12:53	5°♎11'30	-0°24'31
behind sun end	9503 Aug 07 00:14	21°♎58'31		minimum elong	9504 Jul 20 14:21	5°♎18'56	0°24'31
	9503 Aug 10 19:09	0°♏		asc. node	9504 Jul 23 00:55	10°♎16'56	
evening rise	9503 Aug 14 02:54	7°♏02'37		evening rise	9504 Jul 28 10:12	21°♎23'01	
	9503 Aug 26 08:38	0°♎			9504 Aug 01 17:14	0°♏	
evening max el	9503 Sep 03 06:56	10°♎05'18	21°36'35	evening max el	9504 Aug 15 10:01	20°♏54'40	20°13'44
desc. node	9503 Sep 09 09:10	14°♎38'41		retrograde	9504 Aug 26 03:55	26°♏14'10	
retrograde	9503 Sep 15 15:05	16°♎12'50		desc. node	9504 Aug 26 06:21	26°♏14'08	
evening set	9503 Sep 18 07:55	15°♎56'17		evening set	9504 Aug 28 02:57	26°♏04'19	
inferior conj	9503 Sep 27 10:54	11°♎58'54	-4°52'20	inferior conj	9504 Sep 06 05:02	22°♏06'01	-3°16'46
minimum elong	9503 Sep 27 01:51	12°♎11'32	4°50'20	minimum elong	9504 Sep 05 20:25	22°♏18'45	3°13'55
min. Earth dist.	9503 Sep 27 08:54	12°♎01'42	0.54677 AU	min. Earth dist.	9504 Sep 07 18:16	21°♏11'06	0.54910 AU
morning rise	9503 Oct 05 20:49	8°♎09'35		morning rise	9504 Sep 14 12:58	17°♏57'46	
direct	9503 Oct 09 12:07	7°♎40'47		direct	9504 Sep 18 22:12	17°♏16'18	
morning max el	9503 Oct 21 21:31	13°♎33'24	22°08'31	morning max el	9504 Oct 02 10:43	23°♏51'49	23°54'41
asc. node	9503 Nov 02 04:02	28°♎21'39			9504 Oct 08 00:15	0°♎	
	9503 Nov 03 03:11	0°♏		asc. node	9504 Oct 19 00:59	17°♎09'18	
morning set	9503 Nov 12 07:35	17°♏51'12			9504 Oct 25 12:58	0°♏	
	9503 Nov 18 00:33	0°♏		morning set	9504 Oct 26 19:19	2°♏40'18	
superior conj	9503 Nov 19 10:02	2°♏57'27	1°39'10	superior conj	9504 Nov 02 16:48	17°♏37'29	1°40'14
minimum elong	9503 Nov 19 10:51	3°♏01'43	1°39'26	minimum elong	9504 Nov 02 16:24	17°♏35'19	1°40'27
max. Earth dist.	9503 Nov 23 04:13	10°♏46'17	1.34371 AU	max. Earth dist.	9504 Nov 05 02:38	22°♏49'00	1.32985 AU
evening rise	9503 Nov 27 14:23	19°♏34'03			9504 Nov 08 12:47	0°♏	
	9503 Dec 03 05:06	0°♊		evening rise	9504 Nov 10 05:09	3°♏25'26	
desc. node	9503 Dec 06 07:39	5°♊25'12		desc. node	9504 Nov 22 04:42	25°♏27'03	
	9503 Dec 22 15:37	0°♏			9504 Nov 24 23:57	0°♊	
evening max el	9504 Jan 01 14:04	11°♏21'49	26°57'58	evening max el	9504 Dec 14 02:30	24°♊42'50	27°26'36
retrograde	9504 Jan 14 20:22	18°♏42'13			9504 Dec 20 22:34	0°♏	
evening set	9504 Jan 21 11:11	16°♏07'34		retrograde	9504 Dec 27 17:33	2°♏03'16	
min. Earth dist.	9504 Jan 25 10:53	12°♏13'45	0.65641 AU		9505 Jan 02 23:41	30°♏♊	
inferior conj	9504 Jan 27 12:33	9°♏51'30	-0°32'17	evening set	9505 Jan 03 16:24	29°♊30'55	
minimum elong	9504 Jan 27 13:28	9°♏48'50	0°31'37	min. Earth dist.	9505 Jan 07 11:24	26°♊09'22	0.64005 AU
asc. node	9504 Jan 29 03:17	8°♏02'51		inferior conj	9505 Jan 10 00:31	23°♊30'47	-1°39'33
morning rise	9504 Feb 02 16:58	4°♏15'32		minimum elong	9505 Jan 10 03:39	23°♊22'38	1°37'56
direct	9504 Feb 05 11:33	3°♏33'40		asc. node	9505 Jan 15 00:26	19°♊02'50	
morning max el	9504 Feb 11 21:39	6°♏57'55	18°08'17	morning rise	9505 Jan 16 16:43	18°♊09'33	
	9504 Feb 27 19:36	0°♏		direct	9505 Jan 19 03:40	17°♊39'24	
morning set	9504 Mar 01 12:54	4°♏25'11		morning max el	9505 Jan 25 14:59	21°♊00'59	17°49'56
desc. node	9504 Mar 03 07:27	7°♏17'49			9505 Feb 01 11:52	0°♏	
superior conj	9504 Mar 16 11:23	28°♏19'10	-1°26'56	morning set	9505 Feb 11 08:56	16°♏23'19	
minimum elong	9504 Mar 16 02:12	27°♏42'59	1°25'52	desc. node	9505 Feb 18 04:18	27°♏52'27	
	9504 Mar 17 13:03	0°♏			9505 Feb 19 11:00	0°♏	
max. Earth dist.	9504 Mar 18 22:21	2°♏10'37	1.45528 AU	superior conj	9505 Feb 24 08:54	8°♏03'00	-0°44'33
evening rise	9504 Apr 01 14:35	23°♏28'16		minimum elong	9505 Feb 24 03:59	7°♏43'04	0°43'43
	9504 Apr 05 19:42	0°♏		max. Earth dist.	9505 Mar 01 17:40	16°♏38'43	1.44838 AU
greatest brilliancy	9504 Apr 14 00:20	12°♏32'53	-0.7m		9505 Mar 10 06:53	0°♏	
evening max el	9504 Apr 25 21:58	28°♏24'58	19°24'01	evening rise	9505 Mar 12 02:47	2°♏48'47	
asc. node	9504 Apr 26 01:44	28°♏34'23			9505 Mar 30 09:25	0°♏	
	9504 Apr 27 15:01	0°♏		evening max el	9505 Apr 09 00:37	12°♏05'19	20°22'56
retrograde	9504 May 03 00:47	2°♏26'36		asc. node	9505 Apr 12 22:54	15°♏22'33	
evening set	9504 May 06 14:56	1°♏11'21		retrograde	9505 Apr 16 23:25	16°♏42'41	
	9504 May 08 01:31	30°♏♊		evening set	9505 Apr 20 22:38	15°♏11'59	
inferior conj	9504 May 12 00:57	25°♏19'05	3°20'07	inferior conj	9505 Apr 26 06:01	9°♏06'19	3°11'35
minimum elong	9504 May 12 00:43	25°♏19'51	3°19'51	minimum elong	9505 Apr 26 04:47	9°♏10'34	3°11'16
min. Earth dist.	9504 May 13 08:37	23°♏35'27	0.66862 AU	min. Earth dist.	9505 Apr 26 23:28	8°♏06'41	0.67864 AU
morning rise	9504 May 17 10:09	18°♏59'47		morning rise	9505 May 01 10:42	2°♏49'06	
direct	9504 May 23 13:18	16°♏17'36		direct	9505 May 07 01:33	0°♏19'04	
desc. node	9504 May 30 07:35	18°♏49'42		desc. node	9505 May 17 04:32	5°♏55'00	
morning max el	9504 Jun 05 00:08	23°♏44'27	25°49'04	morning max el	9505 May 18 09:36	7°♏06'22	24°24'11
	9504 Jun 10 13:57	0°♏			9505 Jun 05 05:24	0°♏	
	9504 Jul 01 07:39	0°♏		morning set	9505 Jun 23 03:26	28°♏42'05	

	9505 Jun 23 21:16	0°☿		desc. node	9506 May 04 01:27	24°♊06'07	
max. Earth dist.	9505 Jun 26 19:03	5°☿10'35	1.37733 AU		9506 May 08 20:31	0°♊	
					9506 May 29 10:46	0°♊	
superior conj	9505 Jul 03 19:02	18°☿14'37	-0°57'07	morning set	9506 Jun 04 04:34	9°♊17'43	
minimum elong	9505 Jul 03 22:42	18°☿32'17	0°56'49	max. Earth dist.	9506 Jun 08 15:35	16°♊48'24	1.40002 AU
asc. node	9505 Jul 09 21:51	0°♊15'35					
	9505 Jul 09 18:43	0°♊		superior conj	9506 Jun 16 09:46	0°☿32'38	-1°28'48
evening rise	9505 Jul 12 11:45	5°♊23'29		minimum elong	9506 Jun 16 15:24	0°☿58'21	1°28'22
	9505 Jul 26 20:26	0°♊			9506 Jun 16 02:37	0°☿	
evening max el	9505 Jul 29 02:27	2°♊29'16	19°11'07	evening rise	9506 Jun 26 04:29	18°☿56'02	
retrograde	9505 Aug 07 04:22	6°♊59'37		asc. node	9506 Jun 26 18:50	20°☿04'23	
evening set	9505 Aug 09 01:08	6°♊49'00			9506 Jul 02 02:42	0°♊	
desc. node	9505 Aug 13 03:32	5°♊19'39		evening max el	9506 Jul 12 05:44	14°♊46'29	18°29'37
inferior conj	9505 Aug 17 13:00	2°♊37'40	-1°21'30	retrograde	9506 Jul 19 23:06	18°♊38'04	
minimum elong	9505 Aug 17 09:25	2°♊43'41	1°20'16	evening set	9506 Jul 22 01:33	18°♊21'46	
min. Earth dist.	9505 Aug 20 07:24	0°♊46'24	0.56051 AU	inferior conj	9506 Jul 29 17:58	13°♊51'15	0°23'07
	9505 Aug 21 12:42	30°♊♊		minimum elong	9506 Jul 29 18:49	13°♊49'36	0°22'33
morning rise	9505 Aug 25 14:45	27°♊54'26		desc. node	9506 Jul 31 00:41	12°♊50'26	
direct	9505 Aug 30 19:26	26°♊52'05		min. Earth dist.	9506 Aug 02 01:56	11°♊14'58	0.57886 AU
	9505 Sep 08 22:52	0°♊		morning rise	9506 Aug 06 08:31	8°♊31'14	
morning max el	9505 Sep 13 23:10	4°♊04'02	25°36'56	direct	9506 Aug 12 07:37	7°♊00'06	
	9505 Oct 02 12:04	0°♊		morning max el	9506 Aug 26 16:28	14°♊38'28	26°58'06
asc. node	9505 Oct 05 21:54	6°♊25'23			9506 Sep 08 00:42	0°♊	
morning set	9505 Oct 11 06:44	17°♊25'49		asc. node	9506 Sep 22 18:45	26°♊02'16	
	9505 Oct 17 00:46	0°♊			9506 Sep 24 16:51	0°♊	
				morning set	9506 Sep 25 16:10	2°♊02'49	
superior conj	9505 Oct 18 03:03	2°♊25'13	1°35'13				
minimum elong	9505 Oct 18 01:40	2°♊17'35	1°35'17	superior conj	9506 Oct 02 14:45	17°♊14'15	1°24'37
max. Earth dist.	9505 Oct 19 07:50	5°♊03'47	1.32049 AU	minimum elong	9506 Oct 02 12:44	17°♊02'59	1°24'27
evening rise	9505 Oct 25 04:38	17°♊39'20		max. Earth dist.	9506 Oct 02 16:53	17°♊26'04	1.31589 AU
	9505 Oct 31 10:07	0°♊			9506 Oct 08 10:09	0°♊	
desc. node	9505 Nov 09 01:49	15°♊02'33		evening rise	9506 Oct 09 10:13	2°♊08'26	
	9505 Nov 19 14:51	0°♊			9506 Oct 24 08:28	0°♊	
evening max el	9505 Nov 26 11:48	7°♊31'58	27°25'28	desc. node	9506 Oct 26 22:57	4°♊00'33	
retrograde	9505 Dec 10 07:46	14°♊47'54		evening max el	9506 Nov 08 15:27	19°♊36'59	26°50'37
evening set	9505 Dec 17 09:16	12°♊26'49		retrograde	9506 Nov 22 13:40	26°♊46'07	
min. Earth dist.	9505 Dec 21 01:53	9°♊32'16	0.62083 AU	evening set	9506 Nov 29 09:44	24°♊46'50	
inferior conj	9505 Dec 24 00:51	6°♊48'25	-2°51'42	min. Earth dist.	9506 Dec 03 05:48	22°♊08'59	0.59995 AU
minimum elong	9505 Dec 24 06:28	6°♊35'26	2°49'16	inferior conj	9506 Dec 06 10:04	19°♊34'39	-4°03'35
morning rise	9505 Dec 31 06:02	1°♊45'05		minimum elong	9506 Dec 06 17:33	19°♊19'28	4°01'02
asc. node	9506 Jan 01 21:31	1°♊24'33		morning rise	9506 Dec 14 03:56	14°♊51'57	
direct	9506 Jan 02 11:45	1°♊22'59		direct	9506 Dec 16 07:47	14°♊34'23	
morning max el	9506 Jan 09 07:55	4°♊51'28	17°49'22	asc. node	9506 Dec 19 18:33	15°♊21'23	
morning set	9506 Jan 25 03:05	29°♊24'42		morning max el	9506 Dec 23 20:54	18°♊18'55	18°07'46
	9506 Jan 25 10:59	0°♊			9507 Jan 01 06:59	0°♊	
				morning set	9507 Jan 08 13:00	13°♊09'46	
superior conj	9506 Feb 05 07:03	18°♊58'39	-0°01'51		9507 Jan 17 15:31	0°♊	
minimum elong	9506 Feb 05 06:54	18°♊58'01	0°01'35				
behind sun begin	9506 Feb 04 22:12	18°♊21'01		superior conj	9507 Jan 18 05:32	1°♊02'56	0°35'01
behind sun end	9506 Feb 05 15:36	19°♊34'55		minimum elong	9507 Jan 18 08:06	1°♊14'23	0°34'57
desc. node	9506 Feb 05 01:10	18°♊33'39		desc. node	9507 Jan 22 22:04	9°♊17'18	
	9506 Feb 11 22:18	0°♊		max. Earth dist.	9507 Jan 25 20:40	14°♊17'40	1.41650 AU
max. Earth dist.	9506 Feb 12 09:36	0°♊45'55	1.43494 AU	evening rise	9507 Jan 30 23:42	22°♊44'00	
evening rise	9506 Feb 19 17:29	12°♊24'00			9507 Feb 04 13:44	0°♊	
	9506 Mar 03 08:46	0°♊			9507 Feb 25 10:28	0°♊	
evening max el	9506 Mar 22 21:42	25°♊46'57	21°33'51	evening max el	9507 Mar 05 14:22	9°♊30'46	22°52'20
	9506 Mar 28 03:17	0°♊		retrograde	9507 Mar 15 17:44	15°♊30'57	
asc. node	9506 Mar 30 20:03	1°♊00'04		asc. node	9507 Mar 17 17:13	15°♊11'41	
retrograde	9506 Mar 31 21:40	1°♊05'46		evening set	9507 Mar 20 14:15	13°♊30'18	
	9506 Apr 04 08:56	30°♊♊		inferior conj	9507 Mar 25 22:57	7°♊05'41	2°23'17
evening set	9506 Apr 05 06:57	29°♊19'51		minimum elong	9507 Mar 25 20:44	7°♊13'22	2°22'39
inferior conj	9506 Apr 10 14:02	23°♊03'08	2°52'16	min. Earth dist.	9507 Mar 25 15:05	7°♊32'58	0.68537 AU
minimum elong	9506 Apr 10 12:07	23°♊09'49	2°51'46	morning rise	9507 Mar 31 03:07	0°♊57'30	
min. Earth dist.	9506 Apr 10 18:23	22°♊47'59	0.68419 AU		9507 Apr 01 11:49	30°♊♊	
morning rise	9506 Apr 15 17:06	16°♊49'43		direct	9507 Apr 04 14:46	29°♊07'06	
direct	9506 Apr 20 18:26	14°♊37'55			9507 Apr 07 23:26	0°♊	
morning max el	9506 Apr 30 19:45	20°♊35'25	22°54'13	morning max el	9507 Apr 13 09:47	4°♊13'00	21°28'12

desc. node	9507 Apr 20 22:19	13° Υ 04'37		morning max el	9508 Mar 26 06:51	18° X 02'43	20°12'46
	9507 May 02 22:32	0° B			9508 Apr 04 22:28	0° Υ	
morning set	9507 May 15 02:35	18° B 38'49		desc. node	9508 Apr 06 19:12	2° Υ 37'48	
max. Earth dist.	9507 May 21 16:46	29° B 17'16	1.42158 AU	morning set	9508 Apr 23 03:57	27° Υ 07'08	
	9507 May 22 03:08	0° II			9508 Apr 25 00:36	0° B	
				max. Earth dist.	9508 May 03 01:44	12° B 40'52	1.43935 AU
superior conj	9507 May 29 04:29	11° II 55'18	-1°55'21				
minimum elong	9507 May 29 10:27	12° II 21'09	1°55'09	superior conj	9508 May 08 23:19	22° B 14'53	-2°10'55
	9507 Jun 08 08:06	0° B		minimum elong	9508 May 09 02:00	22° B 25'56	2°11'07
evening rise	9507 Jun 09 08:27	1° B 50'44			9508 May 13 15:12	0° II	
asc. node	9507 Jun 13 15:51	9° B 38'37		evening rise	9508 May 21 19:01	13° II 57'04	
evening max el	9507 Jun 25 15:55	27° B 36'50	18°08'21	asc. node	9508 May 30 12:53	28° II 52'21	
	9507 Jun 28 17:05	0° Ω			9508 May 31 05:35	0° B	
retrograde	9507 Jul 02 12:00	1° Ω 05'04		evening max el	9508 Jun 08 05:12	10° B 49'55	18°06'15
evening set	9507 Jul 04 22:13	0° Ω 39'16		retrograde	9508 Jun 14 15:14	14° B 10'19	
	9507 Jul 06 09:39	30° R B		evening set	9508 Jun 17 09:09	13° B 32'23	
inferior conj	9507 Jul 11 20:08	25° B 48'14	1°42'41	inferior conj	9508 Jun 23 16:06	8° B 21'55	2°35'55
minimum elong	9507 Jul 11 22:52	25° B 41'55	1°41'30	minimum elong	9508 Jun 23 18:48	8° B 14'49	2°34'57
min. Earth dist.	9507 Jul 15 03:28	22° B 47'49	0.60087 AU	min. Earth dist.	9508 Jun 26 13:37	5° B 21'04	0.62336 AU
desc. node	9507 Jul 17 21:47	20° B 37'00		morning rise	9508 Jun 30 02:33	2° B 14'51	
morning rise	9507 Jul 18 20:38	19° B 59'32		desc. node	9508 Jul 03 18:54	0° B 17'57	
direct	9507 Jul 25 08:40	17° B 58'03			9508 Jul 04 21:59	30° R II	
morning max el	9507 Aug 08 16:33	25° B 52'37	27°45'53	direct	9508 Jul 06 20:01	29° II 48'26	
	9507 Aug 12 12:40	0° Ω			9508 Jul 08 19:17	0° B	
	9507 Sep 01 12:24	0° R		morning max el	9508 Jul 20 22:40	7° B 50'28	27°55'23
morning set	9507 Sep 09 21:53	16° R 26'32			9508 Aug 06 22:09	0° Ω	
asc. node	9507 Sep 09 15:37	15° R 53'52		morning set	9508 Aug 23 21:49	0° R 30'09	
max. Earth dist.	9507 Sep 16 02:19	29° R 47'17	1.31604 AU		9508 Aug 23 15:53	0° R	
	9507 Sep 16 04:38	0° Ω		asc. node	9508 Aug 26 12:30	5° R 54'14	
				max. Earth dist.	9508 Aug 29 08:17	11° R 55'25	1.32098 AU
superior conj	9507 Sep 17 02:08	1° Ω 59'03	1°08'47				
minimum elong	9507 Sep 16 23:53	1° Ω 46'37	1°08'26	superior conj	9508 Aug 31 11:18	16° R 32'43	0°48'02
evening rise	9507 Sep 23 19:41	16° Ω 46'36		minimum elong	9508 Aug 31 09:21	16° R 22'01	0°47'33
	9507 Sep 30 07:09	0° R			9508 Sep 06 14:53	0° Ω	
desc. node	9507 Oct 13 20:06	22° R 06'30		evening rise	9508 Sep 07 07:00	1° Ω 26'38	
	9507 Oct 20 14:12	0° X			9508 Sep 22 18:05	0° R	
evening max el	9507 Oct 21 11:26	0° X 51'37	25°43'00	desc. node	9508 Sep 29 17:16	8° R 59'12	
retrograde	9507 Nov 04 09:15	7° X 53'07		evening max el	9508 Oct 02 00:05	11° R 20'20	24°11'18
evening set	9507 Nov 10 13:02	6° X 24'48		retrograde	9508 Oct 15 16:42	18° R 11'51	
min. Earth dist.	9507 Nov 14 23:56	3° X 48'17	0.57936 AU	evening set	9508 Oct 20 15:43	17° R 17'46	
inferior conj	9507 Nov 18 00:49	1° X 40'17	-5°05'01	min. Earth dist.	9508 Oct 26 10:46	14° R 24'07	0.56160 AU
minimum elong	9507 Nov 18 07:46	1° X 28'02	5°03'25	inferior conj	9508 Oct 28 19:07	12° R 57'25	-5°39'11
	9507 Nov 20 11:36	30° R R		minimum elong	9508 Oct 28 21:06	12° R 54'21	5°38'53
morning rise	9507 Nov 26 04:49	27° R 20'00		morning rise	9508 Nov 06 04:33	8° R 58'17	
direct	9507 Nov 28 11:46	27° R 03'33		direct	9508 Nov 08 20:30	8° R 39'44	
	9507 Dec 05 17:24	0° X		morning max el	9508 Nov 18 20:16	13° R 23'22	19°48'22
asc. node	9507 Dec 06 15:32	0° X 47'57		asc. node	9508 Nov 22 12:31	17° R 29'32	
morning max el	9507 Dec 07 02:13	1° X 13'05	18°46'51		9508 Nov 30 10:37	0° X	
morning set	9507 Dec 23 09:49	27° X 24'21		morning set	9508 Dec 06 13:54	11° X 57'34	
	9507 Dec 24 17:38	0° B					
superior conj	9508 Jan 01 00:00	14° B 03'22	1°03'35	superior conj	9508 Dec 14 09:30	27° X 46'02	1°23'34
minimum elong	9508 Jan 01 03:15	14° B 18'40	1°03'29	minimum elong	9508 Dec 14 12:11	27° X 59'17	1°23'37
max. Earth dist.	9508 Jan 08 03:50	27° B 08'37	1.39519 AU		9508 Dec 15 12:38	0° B	
desc. node	9508 Jan 09 19:01	29° B 59'56		max. Earth dist.	9508 Dec 20 10:08	9° B 23'09	1.37341 AU
	9508 Jan 09 19:02	0° \approx		evening rise	9508 Dec 24 03:44	16° B 12'17	
evening rise	9508 Jan 12 03:15	4° \approx 00'55		desc. node	9508 Dec 26 15:59	20° B 37'31	
	9508 Jan 28 17:51	0° X			9509 Jan 01 06:01	0° \approx	
evening max el	9508 Feb 16 04:31	23° X 18'11	24°12'29		9509 Jan 22 06:36	0° X	
retrograde	9508 Feb 27 10:24	29° X 53'53		evening max el	9509 Jan 28 17:47	7° X 07'13	25°27'33
evening set	9508 Mar 03 19:03	27° X 39'39		retrograde	9509 Feb 09 22:41	14° X 09'16	
asc. node	9508 Mar 03 14:22	27° X 49'27		evening set	9509 Feb 15 19:50	11° X 43'35	
min. Earth dist.	9508 Mar 08 11:18	22° X 17'12	0.68234 AU	asc. node	9509 Feb 18 11:31	9° X 02'33	
inferior conj	9508 Mar 09 06:57	21° X 10'54	1°45'16	min. Earth dist.	9509 Feb 20 04:50	6° X 56'04	0.67523 AU
minimum elong	9508 Mar 09 04:54	21° X 17'50	1°44'39	inferior conj	9509 Feb 21 12:10	5° X 15'20	0°58'30
morning rise	9508 Mar 14 14:47	15° X 09'29		minimum elong	9509 Feb 21 10:48	5° X 19'45	0°58'08
direct	9508 Mar 18 13:21	13° X 41'06			9509 Feb 26 05:38	30° R \approx	
				morning rise	9509 Feb 27 02:11	29° \approx 22'18	

direct	9509 Mar 02 12:38	28° \approx 14'30		transit end	9510 Feb 05 15:19	19° \approx 06'05	
	9509 Mar 07 02:13	0° H		morning rise	9510 Feb 11 11:07	13° \approx 31'39	
morning max el	9509 Mar 09 11:57	2° H 04'12	19°11'43	direct	9510 Feb 14 10:55	12° \approx 41'29	
greatest brilliancy	9509 Mar 22 14:44	19° H 30'13	-0.7m	morning max el	9510 Feb 20 23:47	16° \approx 11'52	18°26'38
desc. node	9509 Mar 24 16:04	22° H 36'21			9510 Mar 03 08:09	0° H	
	9509 Mar 29 12:04	0° Y		desc. node	9510 Mar 11 12:53	12° H 52'46	
morning set	9509 Apr 02 05:20	5° Y 44'17		morning set	9510 Mar 13 04:20	15° H 29'24	
max. Earth dist.	9509 Apr 15 17:10	26° Y 45'28	1.45116 AU		9510 Mar 22 08:38	0° Y	
	9509 Apr 17 18:30	0° S					
superior conj	9509 Apr 18 18:50	1° S 36'16	-2°09'15	superior conj	9510 Mar 29 00:57	10° Y 28'10	-1°47'19
minimum elong	9509 Apr 18 14:32	1° S 19'13	2°09'16	minimum elong	9510 Mar 28 15:34	9° Y 51'29	1°46'32
evening rise	9509 May 03 07:49	25° S 07'00		max. Earth dist.	9510 Mar 29 11:51	11° Y 10'47	1.45588 AU
	9509 May 06 06:55	0° II			9510 Apr 10 12:01	0° S	
asc. node	9509 May 17 10:00	17° II 39'06		evening rise	9510 Apr 13 20:48	5° S 18'27	
evening max el	9509 May 22 18:24	24° II 18'08	18°22'39	greatest brilliancy	9510 Apr 23 11:28	20° S 25'51	-0.8m
retrograde	9509 May 29 04:22	27° II 44'56			9510 Apr 29 20:37	0° II	
evening set	9509 Jun 01 05:48	26° II 53'18		asc. node	9510 May 04 07:08	5° II 49'13	
inferior conj	9509 Jun 07 01:49	21° II 25'16	3°06'36	evening max el	9510 May 06 04:51	7° II 54'18	18°56'50
minimum elong	9509 Jun 07 03:32	21° II 20'16	3°06'03	retrograde	9510 May 12 23:26	11° II 40'15	
min. Earth dist.	9509 Jun 09 09:16	18° II 44'10	0.64385 AU	evening set	9510 May 16 08:41	10° II 33'56	
morning rise	9509 Jun 13 00:11	15° II 08'41		inferior conj	9510 May 21 21:27	4° II 50'04	3°19'23
direct	9509 Jun 19 16:04	12° II 27'08		minimum elong	9510 May 21 21:54	4° II 48'38	3°19'05
desc. node	9509 Jun 20 15:57	12° II 30'26		min. Earth dist.	9510 May 23 13:45	2° II 42'45	0.66081 AU
morning max el	9509 Jul 03 08:33	20° II 26'54	27°28'24		9510 May 25 21:39	30° R S	
	9509 Jul 11 13:32	0° S		morning rise	9510 May 27 10:32	28° S 30'22	
	9509 Jul 31 00:13	0° O		direct	9510 Jun 02 19:27	25° S 45'07	
morning set	9509 Aug 07 13:30	14° O 07'28		desc. node	9510 Jun 07 12:58	26° S 59'57	
max. Earth dist.	9509 Aug 12 06:54	23° O 40'52	1.33086 AU		9510 Jun 12 00:33	0° II	
asc. node	9509 Aug 13 09:25	25° O 59'20		morning max el	9510 Jun 15 19:16	3° II 29'09	26°31'33
	9509 Aug 15 06:56	0° np			9510 Jul 05 21:24	0° S	
superior conj	9509 Aug 15 16:20	0° np 50'04	0°22'45	morning set	9510 Jul 21 17:41	27° S 09'54	
minimum elong	9509 Aug 15 15:14	0° np 44'12	0°22'20		9510 Jul 23 05:29	0° O	
evening rise	9509 Aug 22 18:20	16° np 03'19		max. Earth dist.	9510 Jul 25 19:08	4° O 59'57	1.34563 AU
	9509 Aug 29 16:03	0° u					
evening max el	9509 Sep 13 11:32	21° u 29'14	22°31'13	superior conj	9510 Jul 30 14:52	14° O 44'53	-0°06'26
desc. node	9509 Sep 16 14:28	24° u 11'49		minimum elong	9510 Jul 30 15:14	14° O 46'48	0°06'37
retrograde	9509 Sep 26 12:15	27° u 59'04		behind sun begin	9510 Jul 30 09:52	14° O 19'04	
evening set	9509 Sep 29 23:06	27° u 32'48		behind sun end	9510 Jul 30 20:37	15° O 14'35	
min. Earth dist.	9509 Oct 07 18:35	24° u 04'30	0.54974 AU	asc. node	9510 Jul 31 06:22	16° O 05'08	
inferior conj	9509 Oct 08 19:30	23° u 29'13	-5°25'56		9510 Aug 06 21:45	0° np	
minimum elong	9509 Oct 08 13:36	23° u 37'35	5°25'06	evening rise	9510 Aug 07 03:43	0° np 31'06	
morning rise	9509 Oct 17 05:54	19° u 41'39			9510 Aug 24 11:23	0° u	
direct	9509 Oct 20 11:32	19° u 17'55		evening max el	9510 Aug 26 07:11	1° u 56'15	20°59'04
morning max el	9509 Nov 01 01:04	24° u 44'03	21°12'07	desc. node	9510 Sep 03 11:38	7° u 13'43	
	9509 Nov 05 18:12	0° ll		retrograde	9510 Sep 07 00:30	7° u 44'58	
asc. node	9509 Nov 09 09:30	5° ll 10'36		evening set	9510 Sep 09 07:12	7° u 32'40	
morning set	9509 Nov 20 22:34	26° ll 41'40		inferior conj	9510 Sep 18 11:48	3° u 36'35	-4°16'28
	9509 Nov 22 12:32	0° x		minimum elong	9510 Sep 18 02:02	3° u 50'25	4°13'46
superior conj	9509 Nov 28 05:48	11° x 58'44	1°35'34	min. Earth dist.	9510 Sep 19 03:07	3° u 14'52	0.54649 AU
minimum elong	9509 Nov 28 07:21	12° x 06'42	1°35'47		9510 Sep 25 20:47	30° R np	
max. Earth dist.	9509 Dec 02 20:03	21° x 17'23	1.35351 AU	morning rise	9510 Sep 26 21:06	29° np 41'24	
evening rise	9509 Dec 06 22:01	29° x 10'11		direct	9510 Sep 30 19:31	29° np 08'11	
	9509 Dec 07 08:38	0° S			9510 Oct 05 14:33	0° u	
desc. node	9509 Dec 13 12:59	11° S 05'42		morning max el	9510 Oct 13 18:23	5° u 20'20	22°53'11
	9509 Dec 25 10:56	0° \approx		asc. node	9510 Oct 27 06:27	23° u 37'25	
evening max el	9510 Jan 11 07:02	20° \approx 52'29	26°30'18		9510 Oct 30 17:42	0° ll	
retrograde	9510 Jan 24 05:52	28° \approx 09'58		morning set	9510 Nov 05 09:43	11° ll 30'37	
evening set	9510 Jan 30 14:45	25° \approx 36'46					
min. Earth dist.	9510 Feb 03 17:30	21° \approx 23'45	0.66429 AU	superior conj	9510 Nov 12 09:34	26° ll 31'40	1°40'24
asc. node	9510 Feb 05 08:42	19° \approx 26'00		minimum elong	9510 Nov 12 09:51	26° ll 33'10	1°40'40
inferior conj	9510 Feb 05 12:34	19° \approx 14'20	0°03'12		9510 Nov 14 00:44	0° x	
minimum elong	9510 Feb 05 12:28	19° \approx 14'37	0°03'25	max. Earth dist.	9510 Nov 15 13:28	3° x 12'44	1.33718 AU
transit middle	9510 Feb 05 12:28	19° \approx 14'37	0°03'25	evening rise	9510 Nov 20 06:22	12° x 45'20	
transit begin	9510 Feb 05 09:38	19° \approx 23'10			9510 Nov 29 15:22	0° S	
				desc. node	9510 Nov 30 10:02	1° S 19'23	
					9510 Dec 20 14:09	0° \approx	
				evening max el	9510 Dec 24 20:11	4° \approx 26'16	27°13'28

retrograde	9511 Jan 07 07:09	11°  48'26		retrograde	9511 Dec 21 01:32	24°  54'36	
evening set	9511 Jan 14 01:45	9°  13'41		evening set	9511 Dec 28 02:05	22°  26'11	
min. Earth dist.	9511 Jan 17 23:11	5°  33'57	0.64979 AU	min. Earth dist.	9511 Dec 31 19:46	19°  16'40	0.63213 AU
inferior conj	9511 Jan 20 05:52	3°  03'17	-1°00'00	inferior conj	9512 Jan 03 13:16	16°  34'27	-2°09'45
minimum elong	9511 Jan 20 07:40	2°  58'19	0°58'56	minimum elong	9512 Jan 03 17:27	16°  24'04	2°07'45
asc. node	9511 Jan 23 05:49	29°  57'00		morning rise	9512 Jan 10 10:52	11°  32'08	
	9511 Jan 23 04:31	30°  		asc. node	9512 Jan 10 02:53	11°  32'57	
morning rise	9511 Jan 26 15:06	27°  33'16		direct	9512 Jan 12 19:12	10°  35'51	
direct	9511 Jan 29 06:02	26°  35'00		morning max el	9512 Jan 19 09:25	14°  31'32	17°47'25
	9511 Feb 04 07:58	0° 			9512 Jan 30 07:34	0° 	
morning max el	9511 Feb 04 15:57	0°  19'15	17°58'19	morning set	9512 Feb 04 15:08	9°  10'18	
morning set	9511 Feb 22 08:51	26°  42'33		desc. node	9512 Feb 13 06:36	24°  00'03	
	9511 Feb 24 08:37	0° 					
desc. node	9511 Feb 26 09:45	3°  22'16		superior conj	9512 Feb 16 19:32	29°  53'56	-0°26'01
				minimum elong	9512 Feb 16 16:48	29°  42'40	0°25'25
superior conj	9511 Mar 08 12:05	19°  41'00	-1°09'35		9512 Feb 16 21:00	0° 	
minimum elong	9511 Mar 08 04:19	19°  41'10	1°08'32	max. Earth dist.	9512 Feb 23 01:22	10°  40'10	1.44344 AU
max. Earth dist.	9511 Mar 12 07:19	25°  41'26	1.45322 AU	evening rise	9512 Mar 03 01:58	24°  41'03	
	9511 Mar 15 01:20	0° 			9512 Mar 06 21:27	0° 	
evening rise	9511 Mar 24 14:37	14°  07'48			9512 Mar 27 20:42	0° 	
	9511 Apr 03 13:26	0° 		evening max el	9512 Apr 01 11:02	5°  15'44	20°51'55
greatest brilliancy	9511 Apr 07 18:38	6°  17'27	-0.6m	asc. node	9512 Apr 07 01:25	9°  31'31	
evening max el	9511 Apr 19 10:42	21°  34'11	19°47'23	retrograde	9512 Apr 09 19:57	10°  30'50	
asc. node	9511 Apr 21 04:17	23°  11'16		evening set	9512 Apr 13 23:21	8°  32'40	
retrograde	9511 Apr 26 21:23	25°  50'06		inferior conj	9512 Apr 19 06:23	2°  22'15	3°04'38
evening set	9511 Apr 30 15:12	24°  28'30		minimum elong	9512 Apr 19 04:49	2°  27'41	3°04'13
inferior conj	9511 May 05 23:49	18°  30'29	3°17'54	min. Earth dist.	9512 Apr 19 18:11	1°  41'30	0.68162 AU
minimum elong	9511 May 05 23:07	18°  32'48	3°17'37		9512 Apr 21 00:05	30°  41'00	
min. Earth dist.	9511 May 07 01:23	17°  04'56	0.67349 AU	morning rise	9512 Apr 24 10:03	26°  06'37	
morning rise	9511 May 11 06:43	12°  11'38		direct	9512 Apr 29 19:22	23°  07'33	
direct	9511 May 17 04:56	9°  33'22			9512 May 10 10:20	0° 	
desc. node	9511 May 25 09:57	13°  16'39		morning max el	9512 May 10 14:17	0°  09'55	23°45'53
morning max el	9511 May 29 05:02	16°  45'29	25°14'00	desc. node	9512 May 11 06:53	0°  52'35	
	9511 Jun 09 04:55	0° 			9512 Jun 02 01:28	0° 	
	9511 Jun 28 20:22	0° 		morning set	9512 Jun 14 21:38	20°  42'00	
morning set	9511 Jul 04 06:06	9°  25'52		max. Earth dist.	9512 Jun 18 17:46	27°  42'26	1.38698 AU
max. Earth dist.	9511 Jul 07 21:02	16°  03'28	1.36484 AU		9512 Jun 20 05:28	0° 	
superior conj	9511 Jul 14 04:01	28°  09'40	-0°38'18	superior conj	9512 Jun 26 04:13	10°  55'34	-1°10'53
minimum elong	9511 Jul 14 06:24	28°  21'27	0°38'09	minimum elong	9512 Jun 26 08:48	11°  17'11	1°10'29
	9511 Jul 15 02:15	0° 		asc. node	9512 Jul 04 00:17	26°  03'00	
asc. node	9511 Jul 18 03:20	6°  07'38		evening rise	9512 Jul 05 07:06	28°  03'35	
evening rise	9511 Jul 22 08:52	14°  04'32			9512 Jul 06 00:50	0° 	
	9511 Jul 30 07:42	0° 		evening max el	9512 Jul 21 13:46	24°  05'18	18°50'55
evening max el	9511 Aug 08 16:11	13°  05'00	19°44'33	retrograde	9512 Jul 30 00:18	29°  01'07	
retrograde	9511 Aug 18 16:34	18°  02'22		evening set	9512 Jul 31 23:10	28°  05'29	
evening set	9511 Aug 20 13:07	17°  05'25		desc. node	9512 Aug 07 05:59	25°  07'55	
desc. node	9511 Aug 21 08:49	17°  04'25		inferior conj	9512 Aug 09 02:55	24°  03'13	-0°34'32
inferior conj	9511 Aug 29 10:24	13°  05'46	-2°28'12	minimum elong	9512 Aug 09 01:28	24°  01'48	0°34'12
minimum elong	9511 Aug 29 03:42	14°  01'08	2°25'49	min. Earth dist.	9512 Aug 12 05:00	22°  02'02	0.56770 AU
min. Earth dist.	9511 Aug 31 14:03	12°  03'54	0.55292 AU	morning rise	9512 Aug 17 00:29	19°  04'17	
morning rise	9511 Sep 06 16:18	9°  28'43		direct	9512 Aug 22 13:37	18°  02'23	
direct	9511 Sep 11 09:59	8°  39'07		morning max el	9512 Sep 05 20:03	25°  09'55	26°14'55
morning max el	9511 Sep 25 06:12	15°  03'48	24°39'43		9512 Sep 09 18:22	0° 	
	9511 Oct 06 19:13	0° 			9512 Sep 28 23:05	0° 	
asc. node	9511 Oct 14 03:21	12°  03'04		asc. node	9512 Sep 30 00:15	2°  03'59	
morning set	9511 Oct 20 21:28	26°  01'24		morning set	9512 Oct 04 08:14	11°  00'43	
	9511 Oct 22 14:39	0° 					
				superior conj	9512 Oct 11 05:07	26°  04'18	1°31'22
superior conj	9511 Oct 27 18:02	11°  15'35	1°38'48	minimum elong	9512 Oct 11 03:24	25°  05'52	1°31'21
minimum elong	9511 Oct 27 17:11	11°  10'56	1°38'59	max. Earth dist.	9512 Oct 11 22:20	27°  03'44	1.31803 AU
max. Earth dist.	9511 Oct 29 14:56	15°  02'10	1.32527 AU		9512 Oct 12 23:43	0° 	
evening rise	9511 Nov 04 01:11	26°  04'20		evening rise	9512 Oct 18 03:34	11°  08'32	
	9511 Nov 05 15:21	0° 			9512 Oct 27 20:32	0° 	
desc. node	9511 Nov 17 07:07	21°  07'11	03	desc. node	9512 Nov 03 04:13	10°  07'52	
	9511 Nov 22 23:21	0° 			9512 Nov 18 11:55	0° 	
evening max el	9511 Dec 07 07:43	17°  35'45	27°30'12	evening max el	9512 Nov 18 15:06	0°  07'34	27°14'50

retrograde	9512 Dec 02 11:58	7° S 19'43		desc. node	9513 Oct 21 01:23	29° M 09'42	
evening set	9512 Dec 09 12:25	5° S 06'52			9513 Oct 21 15:34	0° A	
min. Earth dist.	9512 Dec 13 05:41	2° S 20'56	0.61210 AU	evening max el	9513 Oct 31 15:32	11° A 50'40	26°25'26
	9512 Dec 15 22:16	30° R A		retrograde	9513 Nov 14 13:34	18° A 56'33	
inferior conj	9512 Dec 16 07:34	29° A 39'31	-3°22'41	evening set	9513 Nov 21 04:28	17° A 09'13	
minimum elong	9512 Dec 16 14:07	29° A 25'08	3°20'06	min. Earth dist.	9513 Nov 25 04:55	14° A 34'26	0.59103 AU
morning rise	9512 Dec 23 18:15	24° A 44'22		inferior conj	9513 Nov 28 09:16	12° A 09'09	-4°31'49
direct	9512 Dec 25 22:49	24° A 24'29		minimum elong	9513 Nov 28 16:57	11° A 54'29	4°29'31
asc. node	9512 Dec 26 23:56	24° A 29'10		morning rise	9513 Dec 06 07:56	7° A 36'12	
morning max el	9513 Jan 02 01:00	27° A 58'31	17°54'47	direct	9513 Dec 08 12:33	7° A 19'28	
	9513 Jan 03 21:35	0° S		asc. node	9513 Dec 13 20:58	9° A 05'30	
morning set	9513 Jan 17 16:39	22° S 32'03		morning max el	9513 Dec 16 11:13	11° A 13'03	18°21'51
	9513 Jan 21 19:10	0° \approx			9513 Dec 28 20:58	0° S	
				morning set	9514 Jan 01 07:43	6° S 31'07	
superior conj	9513 Jan 28 04:20	11° \approx 19'16	0°14'45	superior conj	9514 Jan 10 11:59	23° S 49'33	0°48'12
minimum elong	9513 Jan 28 05:37	11° \approx 24'50	0°14'50	minimum elong	9514 Jan 10 15:02	24° S 03'31	0°48'05
behind sun begin	9513 Jan 28 02:29	11° \approx 11'16			9514 Jan 13 22:01	0° \approx	
behind sun end	9513 Jan 28 08:44	11° \approx 38'23		desc. node	9514 Jan 17 00:23	5° \approx 26'05	
desc. node	9513 Jan 30 03:28	14° \approx 42'25		max. Earth dist.	9514 Jan 18 01:14	7° \approx 12'58	1.40758 AU
max. Earth dist.	9513 Feb 04 15:48	23° \approx 57'21	1.42762 AU	evening rise	9514 Jan 22 13:01	14° \approx 45'20	
	9513 Feb 08 09:10	0° H			9514 Feb 01 04:34	0° H	
evening rise	9513 Feb 10 22:02	4° H 01'53			9514 Feb 23 07:38	0° Y	
	9513 Feb 28 06:23	0° Y		evening max el	9514 Feb 25 21:19	2° Y 43'12	23°26'34
evening max el	9513 Mar 15 06:06	18° Y 58'13	22°06'39	retrograde	9514 Mar 08 12:15	8° Y 59'52	
retrograde	9513 Mar 24 17:21	24° Y 34'29		asc. node	9514 Mar 11 19:43	8° Y 06'48	
asc. node	9513 Mar 24 22:33	24° Y 34'15		evening set	9514 Mar 13 13:53	6° Y 52'58	
evening set	9513 Mar 29 07:25	22° Y 42'00		inferior conj	9514 Mar 18 23:45	0° Y 25'54	2°08'16
inferior conj	9513 Apr 03 14:59	16° Y 21'35	2°41'07	minimum elong	9514 Mar 18 21:33	0° Y 33'28	2°07'37
minimum elong	9513 Apr 03 12:53	16° Y 28'54	2°40'33	min. Earth dist.	9514 Mar 18 10:44	1° Y 10'37	0.68454 AU
min. Earth dist.	9513 Apr 03 13:59	16° Y 25'03	0.68525 AU		9514 Mar 19 07:17	30° R H	
morning rise	9513 Apr 08 18:13	10° Y 10'30		morning rise	9514 Mar 24 05:11	24° H 20'33	
direct	9513 Apr 13 13:44	8° Y 07'42		direct	9514 Mar 28 11:04	22° H 39'48	
morning max el	9513 Apr 23 01:41	13° Y 42'16	22°16'45	morning max el	9514 Apr 05 18:38	27° H 25'47	20°54'38
desc. node	9513 Apr 28 03:47	19° Y 25'36			9514 Apr 08 04:17	0° Y	
	9513 May 06 03:42	0° B		desc. node	9514 Apr 15 00:39	8° Y 40'20	
morning set	9513 May 26 11:16	0° II 45'36			9514 Apr 29 16:20	0° B	
	9513 May 26 00:00	0° II		morning set	9514 May 05 23:00	9° B 40'05	
max. Earth dist.	9513 May 31 16:21	9° II 22'12	1.40955 AU	max. Earth dist.	9514 May 13 20:53	22° B 15'43	1.42974 AU
					9514 May 18 13:42	0° II	
superior conj	9513 Jun 08 10:59	22° II 51'13	-1°40'59	superior conj	9514 May 20 19:53	3° II 47'30	-2°03'39
minimum elong	9513 Jun 08 17:05	23° II 18'24	1°40'37	minimum elong	9514 May 21 01:01	4° II 09'11	2°03'40
	9513 Jun 12 09:46	0° S		evening rise	9514 Jun 01 16:11	24° II 27'24	
evening rise	9513 Jun 18 18:56	11° S 51'28			9514 Jun 04 18:56	0° S	
asc. node	9513 Jun 20 21:16	15° S 46'14		asc. node	9514 Jun 07 18:18	5° S 12'40	
	9513 Jun 29 00:50	0° Q		evening max el	9514 Jun 18 08:19	20° S 32'10	18°05'04
evening max el	9513 Jul 04 20:25	7° Q 31'17	18°18'04	retrograde	9514 Jun 24 23:01	23° S 55'34	
retrograde	9513 Jul 12 03:20	11° Q 11'18		evening set	9514 Jun 27 12:23	23° S 25'02	
evening set	9513 Jul 14 09:01	10° Q 51'21		inferior conj	9514 Jul 04 03:28	18° S 25'31	2°08'16
inferior conj	9513 Jul 21 17:11	6° Q 11'39	1°00'14	minimum elong	9514 Jul 04 06:22	18° S 18'26	2°07'08
minimum elong	9513 Jul 21 19:08	6° Q 07'32	0°59'15	min. Earth dist.	9514 Jul 07 07:26	15° S 21'54	0.61055 AU
min. Earth dist.	9513 Jul 25 02:09	3° Q 22'27	0.58799 AU	morning rise	9514 Jul 10 21:49	12° S 27'22	
desc. node	9513 Jul 25 03:08	3° Q 20'29		desc. node	9514 Jul 12 00:15	11° S 46'50	
morning rise	9513 Jul 29 01:55	0° Q 38'04		direct	9514 Jul 17 12:57	10° S 14'12	
	9513 Jul 30 08:36	30° R S		morning max el	9514 Jul 31 19:30	18° S 13'51	27°54'35
direct	9513 Aug 04 07:09	28° S 54'11			9514 Aug 10 16:22	0° Q	
	9513 Aug 09 09:33	0° Q			9514 Aug 28 21:52	0° R	
morning max el	9513 Aug 18 16:22	6° Q 40'06	27°23'02	morning set	9514 Sep 02 19:53	9° R 48'27	
	9513 Sep 05 03:26	0° R		asc. node	9514 Sep 03 18:01	11° R 43'29	
asc. node	9513 Sep 16 21:07	21° R 47'40		max. Earth dist.	9514 Sep 08 16:33	22° R 19'42	1.31752 AU
morning set	9513 Sep 18 16:19	25° R 32'29					
	9513 Sep 20 18:25	0° U		superior conj	9514 Sep 10 03:34	25° R 32'16	1°00'34
superior conj	9513 Sep 25 16:53	10° U 51'41	1°18'31	minimum elong	9514 Sep 10 01:23	25° R 20'12	1°00'08
minimum elong	9513 Sep 25 14:42	10° U 39'35	1°18'16		9514 Sep 12 04:01	0° U	
max. Earth dist.	9513 Sep 25 08:10	10° U 03'17	1.31540 AU	evening rise	9514 Sep 16 21:32	10° U 21'00	
evening rise	9513 Oct 02 11:03	25° U 41'46			9514 Sep 26 20:04	0° M	
	9513 Oct 04 12:07	0° M					

desc. node	9514 Oct 07 22:34	16° \mathbb{M} 47'20		9515 Sep 21 22:54	0° \mathbb{M}	
evening max el	9514 Oct 13 07:49	22° \mathbb{M} 42'59	25°06'04	9515 Sep 24 19:46	3° \mathbb{M} 01'47	
retrograde	9514 Oct 27 04:37	29° \mathbb{M} 41'56		9515 Sep 24 19:06	3° \mathbb{M} 00'12	23°28'47
evening set	9514 Nov 01 21:32	28° \mathbb{M} 28'07		9515 Oct 08 07:03	9° \mathbb{M} 44'28	
min. Earth dist.	9514 Nov 06 19:34	25° \mathbb{M} 46'33	0.57119 AU	9515 Oct 12 14:32	9° \mathbb{M} 03'58	
inferior conj	9514 Nov 09 15:21	23° \mathbb{M} 54'15	-5°24'09	9515 Oct 19 05:04	5° \mathbb{M} 57'16	0.55562 AU
minimum elong	9514 Nov 09 20:47	23° \mathbb{M} 45'12	5°23'10	9515 Oct 21 01:28	4° \mathbb{M} 51'45	-5°40'24
morning rise	9514 Nov 17 22:21	19° \mathbb{M} 43'48		9515 Oct 21 00:08	4° \mathbb{M} 53'44	5°40'12
direct	9514 Nov 20 08:12	19° \mathbb{M} 27'01		9515 Oct 29 11:40	0° \mathbb{M} 58'54	
morning max el	9514 Nov 29 12:15	23° \mathbb{M} 50'04	19°10'19	9515 Nov 01 08:52	0° \mathbb{M} 38'34	
asc. node	9514 Nov 30 17:59	25° \mathbb{M} 05'52		9515 Nov 12 00:49	5° \mathbb{M} 40'08	20°21'20
	9514 Dec 04 15:06	0° \mathbb{X}		9515 Nov 17 14:58	12° \mathbb{M} 14'52	
morning set	9514 Dec 16 08:00	20° \mathbb{X} 54'21		9515 Nov 27 20:29	0° \mathbb{X}	
	9514 Dec 20 21:41	0° \mathbb{Z}		9515 Nov 30 14:21	5° \mathbb{X} 33'04	
superior conj	9514 Dec 24 13:27	7° \mathbb{Z} 09'36	1°13'05	9515 Dec 08 04:02	21° \mathbb{X} 06'21	1°29'34
minimum elong	9514 Dec 24 16:33	7° \mathbb{Z} 24'35	1°13'02	9515 Dec 08 06:16	21° \mathbb{X} 17'37	1°29'42
max. Earth dist.	9514 Dec 31 07:00	19° \mathbb{Z} 44'46	1.38574 AU	9515 Dec 12 15:47	0° \mathbb{Z}	
desc. node	9515 Jan 03 21:20	26° \mathbb{Z} 06'55		9515 Dec 13 14:06	1° \mathbb{Z} 47'20	1.36462 AU
evening rise	9515 Jan 04 01:45	26° \mathbb{Z} 26'01		9515 Dec 17 10:21	8° \mathbb{Z} 58'47	
	9515 Jan 06 03:43	0° \approx		9515 Dec 21 18:21	16° \mathbb{Z} 41'08	
	9515 Jan 25 18:26	0° \mathbb{H}		9515 Dec 29 20:34	0° \approx	
evening max el	9515 Feb 08 10:47	16° \mathbb{H} 30'55	24°45'30	9516 Jan 21 16:13	0° \mathbb{H}	
retrograde	9515 Feb 20 03:20	23° \mathbb{H} 20'00		9516 Jan 22 00:09	0° \mathbb{H} 19'27	25°56'15
evening set	9515 Feb 25 17:12	21° \mathbb{H} 00'34		9516 Feb 03 13:33	7° \mathbb{H} 29'18	
asc. node	9515 Feb 26 16:53	20° \mathbb{H} 05'56		9516 Feb 09 15:42	5° \mathbb{H} 00'09	
min. Earth dist.	9515 Mar 02 06:11	15° \mathbb{H} 52'48	0.67972 AU	9516 Feb 13 14:03	0° \mathbb{H} 51'37	
inferior conj	9515 Mar 03 06:49	14° \mathbb{H} 31'07	1°26'30	9516 Feb 13 22:02	0° \mathbb{H} 27'05	0.67103 AU
minimum elong	9515 Mar 03 04:59	14° \mathbb{H} 37'13	1°25'57	9516 Feb 14 06:45	30° \mathbb{R} \approx	
morning rise	9515 Mar 08 16:58	8° \mathbb{H} 32'54		9516 Feb 15 10:15	28° \approx 33'36	0°36'04
direct	9515 Mar 12 10:08	7° \mathbb{H} 13'41		9516 Feb 15 09:21	28° \approx 36'27	0°35'55
morning max el	9515 Mar 19 19:08	11° \mathbb{H} 20'37	19°44'53	9516 Feb 21 03:35	22° \approx 44'24	
greatest brilliancy	9515 Apr 01 14:17	27° \mathbb{H} 58'34	-0.6m	9516 Feb 24 09:20	21° \approx 44'25	
desc. node	9515 Apr 01 21:30	28° \mathbb{H} 24'58		9516 Mar 02 03:13	25° \approx 24'32	18°50'25
	9515 Apr 02 23:18	0° \mathbb{Y}		9516 Mar 06 03:09	0° \mathbb{H}	
morning set	9515 Apr 14 21:14	18° \mathbb{Y} 02'46		9516 Mar 18 18:20	18° \mathbb{H} 31'27	
	9515 Apr 22 13:54	0° \mathbb{B}		9516 Mar 24 05:43	27° \mathbb{H} 02'31	
max. Earth dist.	9515 Apr 26 08:10	5° \mathbb{B} 55'58	1.44514 AU	9516 Mar 26 03:13	0° \mathbb{Y}	
superior conj	9515 May 01 04:19	13° \mathbb{B} 40'36	-2°12'38	9516 Apr 08 01:10	20° \mathbb{Y} 10'33	1.45409 AU
minimum elong	9515 May 01 04:18	13° \mathbb{B} 40'32	2°12'52	superior conj	9516 Apr 09 16:14	22° \mathbb{Y} 43'47 -2°02'21
	9515 May 11 02:11	0° \mathbb{I}		minimum elong	9516 Apr 09 09:05	22° \mathbb{Y} 15'43 2°02'03
evening rise	9515 May 14 17:58	6° \mathbb{I} 10'17			9516 Apr 14 06:55	0° \mathbb{B}
asc. node	9515 May 25 15:24	24° \mathbb{I} 16'04		evening rise	9516 Apr 24 20:27	16° \mathbb{B} 53'39
	9515 May 29 14:13	0° \mathbb{G}			9516 May 02 23:30	0° \mathbb{I}
evening max el	9515 Jun 01 21:58	3° \mathbb{G} 52'58	18°11'03	asc. node	9516 May 11 12:31	12° \mathbb{I} 48'13
retrograde	9515 Jun 08 06:53	7° \mathbb{G} 14'22		evening max el	9516 May 15 10:21	17° \mathbb{I} 25'19 18°35'10
evening set	9515 Jun 11 03:58	6° \mathbb{G} 30'52		retrograde	9516 May 21 22:50	20° \mathbb{I} 58'24
inferior conj	9515 Jun 17 05:49	1° \mathbb{G} 13'03	2°51'20	evening set	9516 May 25 03:37	20° \mathbb{I} 00'30
minimum elong	9515 Jun 17 08:10	1° \mathbb{G} 06'34	2°50'34	inferior conj	9516 May 30 20:08	14° \mathbb{I} 25'43 3°13'58
	9515 Jun 18 08:15	30° \mathbb{R} \mathbb{I}		minimum elong	9516 May 30 21:19	14° \mathbb{I} 22'08 3°13'32
min. Earth dist.	9515 Jun 19 21:48	28° \mathbb{I} 18'07	0.63244 AU	min. Earth dist.	9516 Jun 01 21:11	11° \mathbb{I} 57'41 0.65157 AU
morning rise	9515 Jun 23 10:48	25° \mathbb{I} 00'58		morning rise	9516 Jun 05 14:12	8° \mathbb{I} 07'29
desc. node	9515 Jun 28 21:19	22° \mathbb{I} 31'51		direct	9516 Jun 12 03:51	5° \mathbb{I} 22'53
direct	9515 Jun 30 04:31	22° \mathbb{I} 26'21		desc. node	9516 Jun 14 18:21	5° \mathbb{I} 45'31
	9515 Jul 13 15:39	0° \mathbb{G}		morning max el	9516 Jun 25 13:45	13° \mathbb{I} 17'11 27°07'23
morning max el	9515 Jul 14 03:29	0° \mathbb{G} 29'23	27°47'58		9516 Jul 09 00:48	0° \mathbb{G}
	9515 Aug 04 18:23	0° \mathbb{Q}			9516 Jul 27 09:39	0° \mathbb{Q}
morning set	9515 Aug 17 16:43	23° \mathbb{Q} 42'29		morning set	9516 Jul 31 03:55	7° \mathbb{Q} 05'53
	9515 Aug 20 18:31	0° \mathbb{P}		max. Earth dist.	9516 Aug 04 14:03	15° \mathbb{Q} 52'26 1.33657 AU
asc. node	9515 Aug 21 14:56	1° \mathbb{P} 46'46		asc. node	9516 Aug 07 11:51	21° \mathbb{Q} 52'34
max. Earth dist.	9515 Aug 22 19:41	4° \mathbb{P} 18'47	1.32453 AU	superior conj	9516 Aug 08 13:54	24° \mathbb{Q} 09'19 0°10'50
superior conj	9515 Aug 25 11:19	10° \mathbb{P} 00'32	0°37'51	minimum elong	9516 Aug 08 13:21	24° \mathbb{Q} 06'25 0°10'29
minimum elong	9515 Aug 25 09:39	9° \mathbb{P} 51'31	0°37'22	behind sun begin	9516 Aug 08 09:04	23° \mathbb{Q} 43'53
evening rise	9515 Sep 01 09:09	25° \mathbb{P} 00'46		behind sun end	9516 Aug 08 17:38	24° \mathbb{Q} 28'59
	9515 Sep 03 17:53	0° \mathbb{U}			9516 Aug 11 07:58	0° \mathbb{P}

evening rise	9516 Aug 15 19:54	9°♎34'30		evening rise	9517 Jul 31 03:47	23°♏56'48	
	9516 Aug 26 10:49	0°♏			9517 Aug 03 03:16	0°♎	
evening max el	9516 Sep 05 09:11	13°♏13'07	21°50'19	evening max el	9517 Aug 18 10:08	23°♎55'34	20°24'48
desc. node	9516 Sep 10 16:58	17°♏22'48		desc. node	9517 Aug 28 14:08	29°♎21'07	
retrograde	9516 Sep 17 21:57	19°♏26'50		retrograde	9517 Aug 29 10:17	29°♎22'57	
evening set	9516 Sep 20 19:07	19°♏08'11		evening set	9517 Aug 31 10:44	29°♎12'43	
inferior conj	9516 Sep 29 20:49	15°♏09'35	-5°02'57	inferior conj	9517 Sep 09 13:56	25°♎15'17	-3°33'22
minimum elong	9516 Sep 29 12:23	15°♏21'23	5°01'15	minimum elong	9517 Sep 09 04:49	25°♎28'34	3°30'26
min. Earth dist.	9516 Sep 29 12:42	15°♏20'56	0.54728 AU	min. Earth dist.	9517 Sep 10 21:41	24°♎29'02	0.54814 AU
morning rise	9516 Oct 08 06:55	11°♏21'29		morning rise	9517 Sep 17 22:20	21°♎11'01	
direct	9516 Oct 11 19:44	10°♏54'06		direct	9517 Sep 22 04:38	20°♎31'59	
morning max el	9516 Oct 24 00:04	16°♏39'35	21°53'25	morning max el	9517 Oct 05 14:05	27°♎01'32	23°38'46
asc. node	9516 Nov 03 11:55	0°♎16'41			9517 Oct 08 11:39	0°♏	
	9516 Nov 03 07:50	0°♎		asc. node	9517 Oct 21 08:50	18°♏58'47	
morning set	9516 Nov 14 00:20	20°♎19'47			9517 Oct 27 00:56	0°♎	
	9516 Nov 18 13:47	0°♎		morning set	9517 Oct 29 11:56	5°♎08'48	
superior conj	9516 Nov 21 03:51	5°♎28'16	1°38'25	superior conj	9517 Nov 05 09:54	20°♎06'30	1°40'28
minimum elong	9516 Nov 21 04:51	5°♎33'31	1°38'41	minimum elong	9517 Nov 05 09:40	20°♎05'16	1°40'42
max. Earth dist.	9516 Nov 25 03:14	13°♎41'02	1.34614 AU	max. Earth dist.	9517 Nov 08 00:21	25°♎41'20	1.33158 AU
evening rise	9516 Nov 29 11:05	22°♎13'29			9517 Nov 10 01:35	0°♎	
	9516 Dec 03 15:06	0°♎		evening rise	9517 Nov 13 00:15	6°♎00'35	
desc. node	9516 Dec 07 15:24	7°♎03'49		desc. node	9517 Nov 24 12:28	27°♎08'59	
	9516 Dec 22 15:01	0°♎			9517 Nov 26 05:59	0°♎	
evening max el	9517 Jan 03 13:39	14°♎01'30	26°51'31	evening max el	9517 Dec 17 02:15	27°♎25'53	27°24'06
retrograde	9517 Jan 16 18:04	21°♎21'12			9517 Dec 20 00:02	0°♎	
evening set	9517 Jan 23 07:30	18°♎46'43		retrograde	9517 Dec 30 16:22	4°♎47'06	
min. Earth dist.	9517 Jan 27 07:58	14°♎48'03	0.65858 AU	evening set	9518 Jan 06 14:17	2°♎13'44	
inferior conj	9517 Jan 29 07:56	12°♎28'54	-0°22'40		9518 Jan 09 04:44	30°♎	
minimum elong	9517 Jan 29 08:34	12°♎27'03	0°22'08	min. Earth dist.	9518 Jan 10 09:48	28°♎47'44	0.64266 AU
asc. node	9517 Jan 30 11:11	11°♎10'44		inferior conj	9518 Jan 12 21:21	26°♎10'44	-1°28'55
morning rise	9517 Feb 04 10:46	6°♎51'09		minimum elong	9518 Jan 13 00:07	26°♎03'25	1°27'28
direct	9517 Feb 07 06:40	6°♎07'13		asc. node	9518 Jan 17 08:17	22°♎01'24	
morning max el	9517 Feb 13 17:11	9°♎32'32	18°12'29	morning rise	9518 Jan 19 11:43	20°♎47'16	
	9517 Feb 28 02:46	0°♎		direct	9518 Jan 21 23:37	20°♎15'40	
morning set	9517 Mar 04 17:17	7°♎25'39		morning max el	9518 Jan 28 10:20	23°♎37'04	17°51'34
desc. node	9517 Mar 05 15:10	8°♎53'57			9518 Feb 02 13:50	0°♎	
	9517 Mar 18 21:09	0°♎		morning set	9518 Feb 14 09:29	19°♎12'37	
				desc. node	9518 Feb 20 12:01	29°♎27'16	
superior conj	9517 Mar 19 22:02	1°♎37'47	-1°32'41		9518 Feb 20 19:55	0°♎	
minimum elong	9517 Mar 19 12:34	1°♎00'37	1°31'41	superior conj	9518 Feb 27 16:30	11°♎12'40	-0°51'13
max. Earth dist.	9517 Mar 21 21:05	4°♎42'09	1.45567 AU	minimum elong	9518 Feb 27 10:48	10°♎49'41	0°50'17
evening rise	9517 Apr 05 00:15	26°♎44'27		max. Earth dist.	9518 Mar 04 16:30	19°♎11'17	1.44984 AU
	9517 Apr 07 02:29	0°♎			9518 Mar 11 14:27	0°♎	
greatest brilliancy	9517 Apr 16 17:28	14°♎51'32	-0.7m	evening rise	9518 Mar 15 13:26	6°♎05'58	
	9517 Apr 27 18:56	0°♎		greatest brilliancy	9518 Mar 30 06:58	28°♎15'08	-0.6m
asc. node	9517 Apr 28 09:39	0°♎39'29			9518 Mar 31 11:55	0°♎	
evening max el	9517 Apr 28 19:03	1°♎03'37	19°16'28	evening max el	9518 Apr 11 22:28	14°♎43'28	20°13'16
retrograde	9517 May 05 19:28	5°♎00'54		asc. node	9518 Apr 15 06:47	17°♎36'43	
evening set	9517 May 09 08:21	3°♎47'54		retrograde	9518 Apr 19 18:01	19°♎15'12	
	9517 May 13 04:29	30°♎		evening set	9518 Apr 23 15:46	17°♎46'53	
inferior conj	9517 May 14 18:58	27°♎57'40	3°20'21	inferior conj	9518 Apr 28 23:23	11°♎43'03	3°13'36
minimum elong	9517 May 14 18:55	27°♎57'51	3°20'04	minimum elong	9518 Apr 28 22:17	11°♎46'48	3°13'17
min. Earth dist.	9517 May 16 04:48	26°♎07'49	0.66673 AU	min. Earth dist.	9518 Apr 29 18:54	10°♎36'38	0.67745 AU
morning rise	9517 May 20 05:04	21°♎38'10		morning rise	9518 May 04 04:33	5°♎25'15	
direct	9517 May 26 09:45	18°♎55'00		direct	9518 May 09 21:19	2°♎52'54	
desc. node	9517 Jun 01 15:19	21°♎04'23		desc. node	9518 May 19 12:15	7°♎57'22	
morning max el	9517 Jun 08 00:13	26°♎26'42	26°00'40	morning max el	9518 May 21 09:47	9°♎47'17	24°37'18
	9517 Jun 11 07:07	0°♎			9518 Jun 06 09:20	0°♎	
	9517 Jul 02 14:57	0°♎		morning set	9518 Jun 25 06:51	0°♎	
morning set	9517 Jul 14 01:57	19°♎49'52		max. Earth dist.	9518 Jun 26 06:09	1°♎41'45	
max. Earth dist.	9517 Jul 17 21:59	27°♎04'06	1.35338 AU		9518 Jun 29 21:01	8°♎10'02	1.37400 AU
	9517 Jul 19 10:11	0°♎		superior conj	9518 Jul 06 16:53	21°♎00'53	-0°52'12
superior conj	9517 Jul 23 08:49	7°♎52'16	-0°19'41	minimum elong	9518 Jul 06 20:13	21°♎17'02	0°51'54
minimum elong	9517 Jul 23 09:59	7°♎58'12	0°19'43		9518 Jul 11 06:19	0°♎	
asc. node	9517 Jul 25 08:47	11°♎57'27					

asc. node	9518 Jul 12 05:45	1°♌57'07		minimum elong	9519 Jun 19 15:35	3°♊50'51	1°23'48
evening rise	9518 Jul 15 06:20	8°♌00'18		evening rise	9519 Jun 29 00:35	21°♊37'06	
	9518 Jul 27 13:39	0°♍		asc. node	9519 Jun 29 02:44	21°♊47'27	
evening max el	9518 Aug 01 00:41	5°♍23'25	19°19'09		9519 Jul 03 10:46	0°♌	
retrograde	9518 Aug 10 08:20	10°♍00'36		evening max el	9519 Jul 15 02:39	17°♌34'47	18°34'34
evening set	9518 Aug 12 04:40	9°♍50'29		retrograde	9519 Jul 23 00:05	21°♌31'02	
desc. node	9518 Aug 15 11:15	8°♍47'31		evening set	9519 Jul 25 01:32	21°♌15'49	
inferior conj	9518 Aug 20 19:13	5°♍41'52	-1°38'51	inferior conj	9519 Aug 01 20:54	16°♌48'24	0°08'44
minimum elong	9518 Aug 20 14:48	5°♍49'07	1°37'18	minimum elong	9519 Aug 01 21:13	16°♌47'47	0°08'21
min. Earth dist.	9518 Aug 23 10:18	3°♍58'26	0.55825 AU	transit middle	9519 Aug 01 21:13	16°♌47'47	0°08'21
morning rise	9518 Aug 28 22:10	1°♍04'11		transit begin	9519 Aug 01 18:08	16°♌53'43	
direct	9518 Sep 02 23:59	0°♍05'24		transit end	9519 Aug 02 00:18	16°♌41'50	
morning max el	9518 Sep 17 02:14	7°♍13'00	25°22'40	desc. node	9519 Aug 02 08:25	16°♌26'12	
	9518 Oct 03 19:14	0°♎		min. Earth dist.	9519 Aug 05 03:53	14°♌17'42	0.57578 AU
asc. node	9518 Oct 08 05:44	8°♎11'13		morning rise	9519 Aug 09 13:22	11°♌33'44	
morning set	9518 Oct 13 23:29	19°♎55'16		direct	9519 Aug 15 10:07	10°♌07'04	
	9518 Oct 18 14:30	0°♏		morning max el	9519 Aug 29 18:27	17°♌42'00	26°47'57
					9519 Sep 08 23:59	0°♐	
superior conj	9518 Oct 20 19:45	4°♏53'45	1°36'21	asc. node	9519 Sep 25 02:37	27°♐45'21	
minimum elong	9518 Oct 20 18:30	4°♏46'51	1°36'27		9519 Sep 26 05:01	0°♑	
max. Earth dist.	9518 Oct 22 04:37	7°♏54'21	1.32156 AU	morning set	9519 Sep 28 09:19	4°♑33'36	
evening rise	9518 Oct 27 22:38	20°♏11'54					
	9518 Nov 01 20:33	0°♒		superior conj	9519 Oct 05 07:21	19°♑42'50	1°26'35
desc. node	9518 Nov 11 09:34	16°♒49'08		minimum elong	9519 Oct 05 05:24	19°♑31'58	1°26'27
	9518 Nov 20 10:00	0°♓		max. Earth dist.	9519 Oct 05 13:18	20°♑15'56	1.31628 AU
evening max el	9518 Nov 29 12:10	10°♓20'39	27°27'44		9519 Oct 09 23:22	0°♒	
retrograde	9518 Dec 13 07:46	17°♓37'44		evening rise	9519 Oct 12 03:27	4°♒39'08	
evening set	9518 Dec 20 09:13	15°♓14'23			9519 Oct 25 13:09	0°♒	
min. Earth dist.	9518 Dec 24 01:57	12°♓16'11	0.62382 AU	desc. node	9519 Oct 29 06:42	5°♒53'27	
inferior conj	9518 Dec 26 23:37	9°♓32'14	-2°40'36	evening max el	9519 Nov 11 16:56	22°♒33'05	26°58'00
minimum elong	9518 Dec 27 04:52	9°♓19'51	2°38'16	retrograde	9519 Nov 25 14:57	29°♒42'54	
morning rise	9519 Jan 03 02:50	4°♓25'59		evening set	9519 Dec 02 12:24	27°♒39'56	
asc. node	9519 Jan 04 05:19	4°♓09'04		min. Earth dist.	9519 Dec 06 07:30	25°♒00'17	0.60313 AU
direct	9519 Jan 05 09:04	4°♓02'58		inferior conj	9519 Dec 09 11:19	22°♒23'40	-3°53'06
morning max el	9519 Jan 12 03:32	7°♓30'01	17°48'16	minimum elong	9519 Dec 09 18:37	22°♒08'32	3°50'28
	9519 Jan 26 20:23	0°♑		morning rise	9519 Dec 17 03:23	17°♒37'31	
morning set	9519 Jan 28 00:46	2°♑05'52		direct	9519 Dec 19 07:16	17°♒19'27	
desc. node	9519 Feb 07 08:55	20°♑07'44		asc. node	9519 Dec 22 02:22	17°♒51'02	
				morning max el	9519 Dec 26 17:18	21°♒01'05	18°03'43
superior conj	9519 Feb 08 10:50	21°♑57'17	-0°08'04		9520 Jan 02 12:01	0°♓	
minimum elong	9519 Feb 08 10:05	21°♑54'03	0°07'43	morning set	9520 Jan 11 08:41	15°♓45'19	
behind sun begin	9519 Feb 08 02:12	21°♑20'49			9520 Jan 19 02:12	0°♑	
behind sun end	9519 Feb 08 17:57	22°♑27'14					
	9519 Feb 13 07:12	0°♒		superior conj	9520 Jan 21 05:54	3°♑51'34	0°29'57
max. Earth dist.	9519 Feb 15 08:50	3°♒21'34	1.43734 AU	minimum elong	9520 Jan 21 08:11	4°♑01'45	0°29'53
evening rise	9519 Feb 23 02:48	15°♒36'39		desc. node	9520 Jan 25 05:50	10°♑51'03	
	9519 Mar 04 14:24	0°♓		max. Earth dist.	9520 Jan 28 20:44	16°♑59'25	1.41953 AU
evening max el	9519 Mar 25 20:21	28°♓24'43	21°22'41	evening rise	9520 Feb 03 06:10	25°♑48'46	
	9519 Mar 27 12:14	0°♔			9520 Feb 05 21:29	0°♒	
asc. node	9519 Apr 02 03:54	3°♔25'34			9520 Feb 26 10:16	0°♓	
retrograde	9519 Apr 03 16:22	3°♔37'07		evening max el	9520 Mar 07 13:40	12°♓08'33	22°40'24
evening set	9519 Apr 08 00:04	1°♔53'32		retrograde	9520 Mar 17 12:50	18°♓02'27	
	9519 Apr 09 22:36	30°♕♓		asc. node	9520 Mar 19 01:03	17°♓51'12	
inferior conj	9519 Apr 13 07:05	25°♓38'22	2°55'50	evening set	9520 Mar 22 07:39	16°♓03'56	
minimum elong	9519 Apr 13 05:14	25°♓44'47	2°55'21	inferior conj	9520 Mar 27 16:01	9°♓40'24	2°28'17
min. Earth dist.	9519 Apr 13 13:22	25°♓16'31	0.68369 AU	minimum elong	9520 Mar 27 13:49	9°♓48'02	2°27'40
morning rise	9519 Apr 18 10:13	19°♓24'14		min. Earth dist.	9520 Mar 27 09:56	10°♓01'31	0.68549 AU
direct	9519 Apr 23 13:38	17°♓09'18		morning rise	9520 Apr 01 19:51	3°♓31'26	
morning max el	9519 May 03 19:32	23°♓14'32	23°07'27	direct	9520 Apr 06 09:35	1°♓37'41	
desc. node	9519 May 06 09:11	25°♓59'28		morning max el	9520 Apr 15 08:46	6°♓50'39	21°40'28
	9519 May 09 18:17	0°♔		desc. node	9520 Apr 22 06:06	14°♓51'50	
	9519 May 30 18:11	0°♕			9520 May 03 03:39	0°♔	
morning set	9519 Jun 07 11:07	12°♕27'45		morning set	9520 May 17 13:09	21°♔59'45	
max. Earth dist.	9519 Jun 11 17:06	19°♕40'23	1.39663 AU		9520 May 22 11:57	0°♕	
	9519 Jun 17 13:06	0°♖		max. Earth dist.	9520 May 23 17:40	2°♕02'33	1.41859 AU
superior conj	9519 Jun 19 10:11	3°♖26'00	-1°24'14	superior conj	9520 May 31 08:14	14°♕57'53	-1°51'51

minimum elong	9520 May 31 14:20	15° Π 24'31	1°51'38	max. Earth dist.	9521 May 06 01:48	15° \mathcal{B} 19'47	1.43705 AU
	9520 Jun 08 17:58	0° \mathcal{E}					
evening rise	9520 Jun 11 06:46	4° \mathcal{E} 38'20		superior conj	9521 May 12 06:47	25° \mathcal{B} 27'01	-2°09'32
asc. node	9520 Jun 14 23:45	11° \mathcal{E} 24'10		minimum elong	9521 May 12 10:16	25° \mathcal{B} 41'25	2°09'41
	9520 Jun 27 03:51	0° Ω			9521 May 15 00:17	0° Π	
evening max el	9520 Jun 27 12:05	0° Ω 20'43	18°10'15	evening rise	9521 May 24 20:19	16° Π 52'50	
retrograde	9520 Jul 04 10:32	3° Ω 51'25			9521 Jun 01 10:51	0° \mathcal{E}	
evening set	9520 Jul 06 19:37	3° Ω 27'11		asc. node	9521 Jun 01 20:49	0° \mathcal{E} 41'28	
	9520 Jul 12 07:07	30° \mathcal{R} \mathcal{E}		evening max el	9521 Jun 11 01:08	13° \mathcal{E} 30'47	18°05'18
inferior conj	9520 Jul 13 20:05	28° \mathcal{E} 38'58	1°32'21	retrograde	9521 Jun 17 12:02	16° \mathcal{E} 51'32	
minimum elong	9520 Jul 13 22:41	28° \mathcal{E} 33'06	1°31'12	evening set	9521 Jun 20 04:47	16° \mathcal{E} 15'35	
min. Earth dist.	9520 Jul 17 04:10	25° \mathcal{E} 40'48	0.59750 AU	inferior conj	9521 Jun 26 13:42	11° \mathcal{E} 07'47	2°29'20
desc. node	9520 Jul 19 05:33	24° \mathcal{E} 02'41		minimum elong	9521 Jun 26 16:29	11° \mathcal{E} 00'35	2°28'20
morning rise	9520 Jul 20 22:45	22° \mathcal{E} 53'58		min. Earth dist.	9521 Jun 29 12:59	8° \mathcal{E} 05'36	0.62011 AU
direct	9520 Jul 27 09:17	20° \mathcal{E} 56'58		morning rise	9521 Jul 03 02:08	5° \mathcal{E} 02'38	
morning max el	9520 Aug 10 17:33	28° \mathcal{E} 49'15	27°41'13	desc. node	9521 Jul 06 02:39	3° \mathcal{E} 22'18	
	9520 Aug 11 21:28	0° Ω		direct	9521 Jul 09 19:11	2° \mathcal{E} 39'29	
	9520 Sep 01 20:56	0° \mathcal{M}		morning max el	9521 Jul 23 23:03	10° \mathcal{E} 41'05	27°56'23
asc. node	9520 Sep 10 23:32	17° \mathcal{M} 34'50			9521 Aug 08 01:45	0° Ω	
morning set	9520 Sep 11 15:43	18° \mathcal{M} 59'06			9521 Aug 25 03:55	0° \mathcal{M}	
	9520 Sep 16 18:26	0° \mathcal{E}		morning set	9521 Aug 26 16:40	3° \mathcal{M} 05'49	
max. Earth dist.	9520 Sep 17 23:01	2° \mathcal{E} 37'50	1.31573 AU	asc. node	9521 Aug 28 20:27	7° \mathcal{M} 33'57	
				max. Earth dist.	9521 Sep 01 05:47	14° \mathcal{M} 48'14	1.31993 AU
superior conj	9520 Sep 18 18:54	4° \mathcal{E} 27'59	1°11'31				
minimum elong	9520 Sep 18 16:39	4° \mathcal{E} 15'32	1°11'11	superior conj	9521 Sep 03 04:32	19° \mathcal{M} 03'15	0°51'29
evening rise	9520 Sep 25 12:28	19° \mathcal{E} 15'50		minimum elong	9521 Sep 03 02:30	18° \mathcal{M} 52'05	0°51'01
	9520 Sep 30 17:26	0° \mathcal{M}			9521 Sep 08 04:08	0° \mathcal{E}	
desc. node	9520 Oct 15 03:51	24° \mathcal{M} 07'54		evening rise	9521 Sep 09 23:39	3° \mathcal{E} 55'30	
	9520 Oct 19 20:20	0° \mathcal{X}			9521 Sep 23 18:57	0° \mathcal{M}	
evening max el	9520 Oct 23 14:10	3° \mathcal{X} 54'54	25°54'54	desc. node	9521 Oct 02 01:02	11° \mathcal{M} 12'56	
retrograde	9520 Nov 06 12:01	10° \mathcal{X} 57'14		evening max el	9521 Oct 05 03:33	14° \mathcal{M} 28'32	24°25'54
evening set	9520 Nov 12 19:09	9° \mathcal{X} 23'48		retrograde	9521 Oct 18 21:27	21° \mathcal{M} 22'25	
min. Earth dist.	9520 Nov 17 02:50	6° \mathcal{X} 48'23	0.58235 AU	evening set	9521 Oct 24 01:33	20° \mathcal{M} 23'15	
inferior conj	9520 Nov 20 05:00	4° \mathcal{X} 35'28	-4°57'03	min. Earth dist.	9521 Oct 29 14:27	17° \mathcal{M} 33'24	0.56388 AU
minimum elong	9520 Nov 20 12:17	4° \mathcal{X} 22'22	4°55'14	inferior conj	9521 Nov 01 02:19	15° \mathcal{M} 59'39	-5°36'40
morning rise	9520 Nov 28 07:45	0° \mathcal{X} 11'49		minimum elong	9521 Nov 01 05:21	15° \mathcal{M} 54'52	5°36'15
	9520 Nov 29 09:23	30° \mathcal{R} \mathcal{M}		morning rise	9521 Nov 09 11:18	11° \mathcal{M} 57'58	
direct	9520 Nov 30 13:58	29° \mathcal{M} 55'21		direct	9521 Nov 12 01:30	11° \mathcal{M} 40'00	
	9520 Dec 01 18:10	0° \mathcal{X}		morning max el	9521 Nov 21 19:57	16° \mathcal{M} 17'54	19°37'50
asc. node	9520 Dec 07 23:24	3° \mathcal{X} 04'26		asc. node	9521 Nov 24 20:25	19° \mathcal{M} 35'43	
morning max el	9520 Dec 08 23:58	4° \mathcal{X} 00'22	18°39'38		9521 Dec 01 18:05	0° \mathcal{X}	
morning set	9520 Dec 25 04:08	29° \mathcal{X} 55'56		morning set	9521 Dec 09 07:21	14° \mathcal{X} 27'08	
	9520 Dec 25 04:58	0° \mathcal{E}					
superior conj	9521 Jan 02 21:42	16° \mathcal{E} 44'15	0°59'49	superior conj	9521 Dec 17 05:18	0° \mathcal{E} 21'51	1°21'02
minimum elong	9521 Jan 03 00:56	16° \mathcal{E} 59'24	0°59'41	minimum elong	9521 Dec 17 08:06	0° \mathcal{E} 35'41	1°21'05
max. Earth dist.	9521 Jan 10 04:37	29° \mathcal{E} 57'17	1.39846 AU		9521 Dec 17 00:52	0° \mathcal{E}	
	9521 Jan 10 05:15	0° \approx		max. Earth dist.	9521 Dec 23 10:44	12° \mathcal{E} 16'26	1.37654 AU
desc. node	9521 Jan 11 02:46	1° \approx 33'45		evening rise	9521 Dec 27 03:59	19° \mathcal{E} 00'32	
evening rise	9521 Jan 14 06:25	6° \approx 56'38		desc. node	9521 Dec 28 23:45	22° \mathcal{E} 12'27	
	9521 Jan 28 22:48	0° \mathcal{H}			9522 Jan 02 14:23	0° \approx	
evening max el	9521 Feb 18 04:05	25° \mathcal{H} 55'15	24°00'43	evening max el	9522 Jan 23 03:31	0° \mathcal{H}	
	9521 Feb 22 22:04	0° \mathcal{Y}		retrograde	9522 Jan 31 17:18	9° \mathcal{H} 44'02	25°16'56
retrograde	9521 Mar 01 06:05	2° \mathcal{Y} 26'07		evening set	9522 Feb 12 19:09	16° \mathcal{H} 43'13	
asc. node	9521 Mar 05 22:13	0° \mathcal{Y} 43'12		asc. node	9522 Feb 18 14:27	14° \mathcal{H} 18'55	
evening set	9521 Mar 06 12:58	0° \mathcal{Y} 13'39		min. Earth dist.	9522 Feb 20 19:23	12° \mathcal{H} 07'43	
	9521 Mar 06 19:13	30° \mathcal{R} \mathcal{H}		inferior conj	9522 Feb 23 00:25	9° \mathcal{H} 26'14	0.67654 AU
min. Earth dist.	9521 Mar 11 06:20	24° \mathcal{H} 46'10	0.68305 AU	minimum elong	9522 Feb 24 06:03	7° \mathcal{H} 50'08	1°06'11
inferior conj	9521 Mar 12 00:17	23° \mathcal{H} 45'17	1°51'37	morning rise	9522 Feb 24 04:32	7° \mathcal{H} 55'03	1°05'45
minimum elong	9521 Mar 11 22:11	23° \mathcal{H} 52'26	1°50'59	direct	9522 Mar 01 19:00	1° \mathcal{H} 55'47	
morning rise	9521 Mar 17 07:26	17° \mathcal{H} 42'53		morning max el	9522 Mar 05 07:08	0° \mathcal{H} 45'10	
direct	9521 Mar 21 07:53	16° \mathcal{H} 11'21		greatest brilliancy	9522 Mar 12 08:44	4° \mathcal{H} 38'55	19°19'48
morning max el	9521 Mar 29 04:45	20° \mathcal{H} 38'44	20°23'12	desc. node	9522 Mar 25 05:41	21° \mathcal{H} 37'36	-0.7m
	9521 Apr 05 23:35	0° \mathcal{Y}			9522 Mar 26 23:49	24° \mathcal{H} 15'20	
desc. node	9521 Apr 09 02:58	4° \mathcal{Y} 20'18			9522 Mar 30 18:40	0° \mathcal{Y}	
	9521 Apr 26 08:04	0° \mathcal{B}		morning set	9522 Apr 05 16:26	9° \mathcal{Y} 04'22	
morning set	9521 Apr 26 16:41	0° \mathcal{B} 33'16		max. Earth dist.	9522 Apr 18 16:09	29° \mathcal{Y} 18'12	1.44984 AU
					9522 Apr 19 02:45	0° \mathcal{B}	

superior conj	9522 Apr 22 05:24	4°♄55'41	-2°10'49			9523 Mar 04 12:16	0°♄	
minimum elong	9522 Apr 22 02:14	4°♄43'05	2°10'54	desc. node		9523 Mar 13 20:39	14°♄29'19	
evening rise	9522 May 06 12:36	28°♄11'24		morning set		9523 Mar 16 11:17	18°♄36'39	
	9522 May 07 14:46	0°♄				9523 Mar 23 16:44	0°♄	
asc. node	9522 May 19 17:54	19°♄32'45						
evening max el	9522 May 25 14:30	26°♄57'00	18°19'01	superior conj		9523 Apr 01 12:27	13°♄49'02	-1°51'50
	9522 May 29 23:24	0°♄		minimum elong		9523 Apr 01 03:25	13°♄13'45	1°51'11
retrograde	9522 May 31 23:58	0°♄22'07		max. Earth dist.		9523 Apr 01 10:13	13°♄40'22	1.45568 AU
	9522 Jun 03 00:09	30°♄				9523 Apr 11 19:55	0°♄	
evening set	9522 Jun 04 00:13	29°♄32'41		evening rise		9523 Apr 17 04:56	8°♄30'30	
inferior conj	9522 Jun 09 21:38	24°♄07'12	3°03'10	greatest brilliancy		9523 Apr 26 00:30	22°♄28'21	-0.8m
minimum elong	9522 Jun 09 23:31	24°♄01'45	3°02'33			9523 Apr 30 22:21	0°♄	
min. Earth dist.	9522 Jun 12 07:21	21°♄21'56	0.64102 AU	asc. node		9523 May 06 15:00	7°♄48'59	
morning rise	9522 Jun 15 21:37	17°♄51'26		evening max el		9523 May 09 01:30	10°♄32'23	18°50'42
direct	9522 Jun 22 14:06	15°♄11'16		retrograde		9523 May 15 18:17	14°♄14'37	
desc. node	9522 Jun 22 23:42	15°♄11'48		evening set		9523 May 19 02:20	13°♄10'34	
morning max el	9522 Jul 06 08:34	23°♄12'32	27°34'26	inferior conj		9523 May 24 15:58	7°♄29'08	3°18'26
	9522 Jul 12 09:16	0°♄		minimum elong		9523 May 24 16:37	7°♄27'06	3°18'05
	9522 Aug 01 09:09	0°♄		min. Earth dist.		9523 May 26 10:35	5°♄16'00	0.65854 AU
morning set	9522 Aug 10 09:46	16°♄47'38		morning rise		9523 May 30 06:16	1°♄09'37	
max. Earth dist.	9522 Aug 15 05:39	26°♄37'10	1.32905 AU			9523 May 31 18:30	30°♄	
asc. node	9522 Aug 15 17:22	27°♄38'35		direct		9523 Jun 05 16:33	28°♄24'05	
	9522 Aug 16 20:10	0°♄		desc. node		9523 Jun 09 20:42	29°♄22'22	
						9523 Jun 11 02:55	0°♄	
superior conj	9522 Aug 18 10:19	3°♄23'23	0°26'51	morning max el		9523 Jun 18 19:13	6°♄11'31	26°41'33
minimum elong	9522 Aug 18 09:03	3°♄16'36	0°26'25			9523 Jul 07 02:34	0°♄	
evening rise	9522 Aug 25 11:06	18°♄32'55		morning set		9523 Jul 24 15:54	29°♄56'15	
	9522 Aug 31 01:15	0°♄				9523 Jul 24 16:42	0°♄	
evening max el	9522 Sep 16 14:33	24°♄37'51	22°45'57	max. Earth dist.		9523 Jul 28 19:26	7°♄59'52	1.34311 AU
desc. node	9522 Sep 18 22:13	26°♄42'31						
	9522 Sep 24 04:26	0°♄		superior conj		9523 Aug 02 10:00	17°♄22'29	-0°01'48
retrograde	9522 Sep 29 18:49	1°♄12'19		minimum elong		9523 Aug 02 10:06	17°♄23'05	0°02'01
evening set	9522 Oct 03 10:49	0°♄42'51		behind sun begin		9523 Aug 02 04:21	16°♄53'15	
	9522 Oct 05 14:57	30°♄		behind sun end		9523 Aug 02 15:51	17°♄52'58	
min. Earth dist.	9522 Oct 10 22:36	27°♄20'31	0.55094 AU	asc. node		9523 Aug 02 14:18	17°♄44'52	
inferior conj	9522 Oct 12 04:54	26°♄37'13	-5°31'41			9523 Aug 08 10:05	0°♄	
minimum elong	9522 Oct 12 00:08	26°♄44'04	5°31'05	evening rise		9523 Aug 09 20:54	3°♄02'43	
morning rise	9522 Oct 20 15:19	22°♄48'52				9523 Aug 25 00:24	0°♄	
direct	9522 Oct 23 18:35	22°♄26'11		evening max el		9523 Aug 29 08:37	5°♄00'57	21°11'51
morning max el	9522 Nov 04 02:46	27°♄46'02	20°58'26	desc. node		9523 Sep 05 19:23	10°♄06'27	
	9522 Nov 06 07:04	0°♄		retrograde		9523 Sep 10 07:24	10°♄56'24	
asc. node	9522 Nov 11 17:24	7°♄08'36		evening set		9523 Sep 12 17:13	10°♄42'54	
morning set	9522 Nov 23 15:29	29°♄09'48		inferior conj		9523 Sep 21 21:35	6°♄46'41	-4°30'13
	9522 Nov 24 01:09	0°♄		minimum elong		9523 Sep 21 11:54	7°♄00'19	4°27'43
				min. Earth dist.		9523 Sep 22 06:55	6°♄33'32	0.54639 AU
superior conj	9522 Dec 01 00:13	14°♄30'40	1°34'11	morning rise		9523 Sep 30 07:06	2°♄53'55	
minimum elong	9522 Dec 01 01:57	14°♄39'33	1°34'24	direct		9523 Oct 04 03:00	2°♄22'19	
max. Earth dist.	9522 Dec 05 19:36	24°♄11'19	1.35622 AU	morning max el		9523 Oct 16 21:25	8°♄27'51	22°37'22
	9522 Dec 08 19:59	0°♄		asc. node		9523 Oct 29 14:20	25°♄29'14	
evening rise	9522 Dec 09 19:51	1°♄52'06				9523 Nov 01 02:50	0°♄	
desc. node	9522 Dec 15 20:45	12°♄42'20		morning set		9523 Nov 08 02:20	13°♄58'04	
	9522 Dec 26 15:18	0°♄						
evening max el	9523 Jan 14 06:31	23°♄30'16	26°22'02	superior conj		9523 Nov 15 03:00	29°♄00'44	1°40'04
	9523 Jan 23 08:28	0°♄		minimum elong		9523 Nov 15 03:28	29°♄03'14	1°40'21
retrograde	9523 Jan 27 03:13	0°♄46'26				9523 Nov 15 14:09	0°♄	
	9523 Jan 30 15:46	30°♄		max. Earth dist.		9523 Nov 18 11:47	6°♄05'16	1.33936 AU
evening set	9523 Feb 02 10:22	28°♄14'06		evening rise		9523 Nov 23 02:19	15°♄22'06	
min. Earth dist.	9523 Feb 06 13:59	23°♄55'53	0.66616 AU			9523 Dec 01 00:17	0°♄	
asc. node	9523 Feb 07 16:32	22°♄35'23		desc. node		9523 Dec 02 17:48	2°♄58'29	
inferior conj	9523 Feb 08 07:18	21°♄50'16	0°12'11			9523 Dec 21 06:51	0°♄	
minimum elong	9523 Feb 08 06:58	21°♄51'16	0°12'16	evening max el		9523 Dec 27 19:49	7°♄06'22	27°08'37
transit middle	9523 Feb 08 06:58	21°♄51'16	0°12'16	retrograde		9524 Jan 10 05:21	14°♄28'09	
transit begin	9523 Feb 08 05:06	21°♄56'57		evening set		9524 Jan 16 22:37	11°♄53'22	
transit end	9523 Feb 08 08:50	21°♄45'36		min. Earth dist.		9524 Jan 20 20:51	8°♄08'41	0.65217 AU
morning rise	9523 Feb 14 04:25	16°♄05'48		inferior conj		9524 Jan 23 01:46	5°♄40'48	-0°49'55
direct	9523 Feb 17 05:41	15°♄13'16		minimum elong		9524 Jan 23 03:15	5°♄36'40	0°49'01
morning max el	9523 Feb 23 19:40	18°♄45'55	18°32'13	asc. node		9524 Jan 25 13:38	3°♄00'54	

morning rise	9524 Jan 29 09:17	0° \approx 08'34		morning rise	9525 Jan 12 06:30	13° \approx 58'10	
	9524 Jan 29 17:00	30° \approx 30'		direct	9525 Jan 14 15:44	13° \approx 30'34	
direct	9524 Feb 01 01:26	29° \approx 30'26		morning max el	9525 Jan 21 04:44	16° \approx 53'19	17°47'57
	9524 Feb 03 10:16	0° \approx			9525 Jan 30 14:27	0° \approx	
morning max el	9524 Feb 07 11:16	2° \approx 53'13	18°01'25	morning set	9525 Feb 06 14:21	11° \approx 55'12	
morning set	9524 Feb 25 11:27	29° \approx 36'59		desc. node	9525 Feb 14 14:23	25° \approx 34'02	
	9524 Feb 25 17:03	0° \approx			9525 Feb 17 06:14	0° \approx	
desc. node	9524 Feb 28 17:29	4° \approx 56'59					
				superior conj	9525 Feb 19 01:28	2° \approx 58'06	-0°32'36
superior conj	9524 Mar 10 21:35	22° \approx 55'17	-1°15'55	minimum elong	9525 Feb 18 21:59	2° \approx 43'47	0°31'54
minimum elong	9524 Mar 10 13:13	22° \approx 22'11	1°14'50	max. Earth dist.	9525 Feb 25 00:35	12° \approx 36'12	1.44530 AU
max. Earth dist.	9524 Mar 14 05:50	28° \approx 11'33	1.45411 AU	evening rise	9525 Mar 06 12:20	27° \approx 26'04	
	9524 Mar 15 09:30	0° \approx			9525 Mar 08 04:31	0° \approx	
evening rise	9524 Mar 27 00:55	18° \approx 04'28			9525 Mar 28 18:22	0° \approx	
	9524 Apr 03 19:17	0° \approx		evening max el	9525 Apr 04 09:18	7° \approx 53'40	20°41'29
greatest brilliancy	9524 Apr 09 15:22	8° \approx 47'51	-0.7m	asc. node	9525 Apr 09 09:14	11° \approx 50'04	
evening max el	9524 Apr 21 08:07	24° \approx 12'01	19°38'56	retrograde	9525 Apr 12 14:31	12° \approx 41'38	
asc. node	9524 Apr 22 12:06	25° \approx 19'07		evening set	9525 Apr 16 16:27	11° \approx 06'41	
retrograde	9524 Apr 28 15:53	28° \approx 22'40		inferior conj	9525 Apr 21 23:34	4° \approx 57'53	3°07'18
evening set	9524 May 02 08:25	27° \approx 03'17		minimum elong	9525 Apr 21 22:06	5° \approx 02'55	3°06'56
inferior conj	9524 May 07 17:29	21° \approx 07'18	3°18'55	min. Earth dist.	9525 Apr 22 13:18	4° \approx 10'35	0.68071 AU
minimum elong	9524 May 07 16:57	21° \approx 09'04	3°18'38		9525 Apr 25 20:18	30° \approx 00'	
min. Earth dist.	9524 May 08 21:10	19° \approx 35'19	0.67190 AU	morning rise	9525 Apr 27 03:33	28° \approx 41'42	
morning rise	9524 May 13 01:07	14° \approx 48'18		direct	9525 May 02 14:50	26° \approx 16'09	
direct	9524 May 19 01:09	12° \approx 08'26			9525 May 10 13:06	0° \approx	
desc. node	9524 May 26 17:40	15° \approx 24'44		morning max el	9525 May 13 14:20	2° \approx 49'47	23°59'18
morning max el	9524 May 31 05:03	19° \approx 25'54	25°26'29	desc. node	9525 May 13 14:36	2° \approx 50'25	
	9524 Jun 09 04:39	0° \approx			9525 Jun 03 07:16	0° \approx	
	9524 Jun 29 05:01	0° \approx		morning set	9525 Jun 18 01:53	23° \approx 45'28	
morning set	9524 Jul 06 06:56	12° \approx 19'41			9525 Jun 21 15:41	0° \approx	
max. Earth dist.	9524 Jul 09 22:42	19° \approx 04'26	1.36176 AU	max. Earth dist.	9525 Jun 21 19:59	0° \approx 19'08	1.38363 AU
	9524 Jul 15 14:13	0° \approx					
				superior conj	9525 Jun 29 03:05	13° \approx 44'21	-1°06'01
superior conj	9524 Jul 16 00:43	0° \approx 52'15	-0°33'21	minimum elong	9525 Jun 29 07:21	14° \approx 04'37	1°05'39
minimum elong	9524 Jul 16 02:46	1° \approx 02'28	0°33'15	asc. node	9525 Jul 06 08:10	27° \approx 44'44	
asc. node	9524 Jul 19 11:13	7° \approx 04'03			9525 Jul 07 11:40	0° \approx	
evening rise	9524 Jul 24 02:49	17° \approx 01'53		evening rise	9525 Jul 08 02:16	1° \approx 11'45	
	9524 Jul 30 14:33	0° \approx		evening max el	9525 Jul 24 11:21	27° \approx 50'01	18°57'32
evening max el	9524 Aug 10 15:32	16° \approx 02'44	19°54'21		9525 Jul 27 00:37	0° \approx	
retrograde	9524 Aug 20 21:56	21° \approx 07'40		retrograde	9525 Aug 02 03:03	2° \approx 08'07	
evening set	9524 Aug 22 19:07	20° \approx 58'10		evening set	9525 Aug 04 01:05	1° \approx 56'16	
desc. node	9524 Aug 22 16:33	20° \approx 59'13			9525 Aug 08 18:20	30° \approx 00'	
inferior conj	9524 Aug 31 18:20	16° \approx 57'39	-2°45'41	desc. node	9525 Aug 09 13:42	29° \approx 30'43	
minimum elong	9524 Aug 31 10:53	17° \approx 08'58	2°43'06	inferior conj	9525 Aug 12 07:43	27° \approx 39'45	-0°50'54
min. Earth dist.	9524 Sep 02 17:13	15° \approx 46'28	0.55142 AU	minimum elong	9525 Aug 12 05:33	27° \approx 43'33	0°50'15
morning rise	9524 Sep 09 01:01	12° \approx 40'45		min. Earth dist.	9525 Aug 15 07:24	25° \approx 34'41	0.56507 AU
direct	9524 Sep 13 15:49	11° \approx 54'07		morning rise	9525 Aug 20 06:51	22° \approx 46'21	
morning max el	9524 Sep 27 09:28	18° \approx 40'49	24°24'07	direct	9525 Aug 25 17:05	21° \approx 36'41	
	9524 Oct 06 19:21	0° \approx		morning max el	9525 Sep 08 22:44	28° \approx 56'11	26°02'11
asc. node	9524 Oct 15 11:14	14° \approx 25'24			9525 Sep 10 00:35	0° \approx	
morning set	9524 Oct 22 14:06	28° \approx 46'14			9525 Sep 30 09:08	0° \approx	
	9524 Oct 23 03:53	0° \approx		asc. node	9525 Oct 02 08:09	3° \approx 48'04	
				morning set	9525 Oct 07 01:07	13° \approx 29'48	
superior conj	9524 Oct 29 10:54	13° \approx 43'13	1°39'26				
minimum elong	9524 Oct 29 10:13	13° \approx 39'26	1°39'37	superior conj	9525 Oct 13 21:43	28° \approx 31'41	1°32'52
max. Earth dist.	9524 Oct 31 12:14	18° \approx 10'56	1.32679 AU	minimum elong	9525 Oct 13 20:08	28° \approx 22'51	1°32'52
evening rise	9524 Nov 05 19:46	29° \approx 20'27			9525 Oct 14 13:41	0° \approx	
	9524 Nov 06 03:35	0° \approx		max. Earth dist.	9525 Oct 14 19:00	0° \approx 29'22	1.31879 AU
desc. node	9524 Nov 18 14:54	22° \approx 53'58		evening rise	9525 Oct 20 21:12	13° \approx 39'12	
	9524 Nov 23 02:37	0° \approx			9525 Oct 29 05:21	0° \approx	
evening max el	9524 Dec 09 07:47	20° \approx 20'19	27°29'38	desc. node	9525 Nov 05 12:00	12° \approx 20'16	
retrograde	9524 Dec 23 00:40	27° \approx 39'38			9525 Nov 18 17:29	0° \approx	
evening set	9524 Dec 30 00:44	25° \approx 09'46		evening max el	9525 Nov 21 15:53	2° \approx 58'23	27°19'16
min. Earth dist.	9525 Jan 02 18:51	21° \approx 56'08	0.63492 AU	retrograde	9525 Dec 05 12:23	10° \approx 31'47	
inferior conj	9525 Jan 05 10:50	19° \approx 15'01	-1°58'52	evening set	9525 Dec 12 13:25	7° \approx 55'48	
minimum elong	9525 Jan 05 14:38	19° \approx 05'24	1°57'01	min. Earth dist.	9525 Dec 16 06:19	5° \approx 07'09	0.61516 AU
asc. node	9525 Jan 11 10:42	14° \approx 20'01		inferior conj	9525 Dec 19 07:18	2° \approx 24'36	-3°11'44

minimum elong	9525 Dec 19 13:33	2° S 10'39	3°09'10	inferior conj	9526 Dec 01 11:46	15° S 00'40	-4°22'04
	9525 Dec 22 03:27	30° R 27		minimum elong	9526 Dec 01 19:27	14° S 45'42	4°19'39
morning rise	9525 Dec 26 16:05	27° S 26'33		morning rise	9526 Dec 09 08:51	10° S 24'23	
direct	9525 Dec 28 21:00	27° S 05'56		direct	9526 Dec 11 13:04	10° S 07'26	
asc. node	9525 Dec 29 07:47	27° S 06'49		asc. node	9526 Dec 16 04:51	11° S 29'39	
	9526 Jan 04 04:49	0° S		morning max el	9526 Dec 19 08:13	13° S 57'38	18°16'29
morning max el	9526 Jan 04 20:53	0° S 37'47	17°52'33		9526 Dec 30 06:00	0° S	
morning set	9526 Jan 20 13:24	25° S 10'09		morning set	9527 Jan 04 02:46	9° S 04'44	
	9526 Jan 23 05:29	0° \approx					
superior conj	9526 Jan 31 06:36	14° \approx 13'12	0°08'59	superior conj	9527 Jan 13 11:10	26° S 34'52	0°43'40
minimum elong	9526 Jan 31 07:25	14° \approx 16'43	0°09'06	minimum elong	9527 Jan 13 14:05	26° S 48'05	0°43'32
behind sun begin	9526 Jan 31 00:26	13° \approx 46'35			9527 Jan 15 08:39	0° \approx	
behind sun end	9526 Jan 31 14:25	14° \approx 46'48		desc. node	9527 Jan 19 08:13	7° \approx 00'05	
desc. node	9526 Feb 01 11:17	16° \approx 16'09		max. Earth dist.	9527 Jan 21 01:30	9° \approx 57'02	1.41074 AU
max. Earth dist.	9526 Feb 07 15:40	26° \approx 36'09	1.43025 AU	evening rise	9527 Jan 25 18:07	17° \approx 46'14	
	9526 Feb 09 17:52	0° H			9527 Feb 02 11:29	0° H	
evening rise	9526 Feb 14 06:16	7° H 11'08			9527 Feb 24 00:45	0° Y	
	9526 Mar 01 10:24	0° Y		evening max el	9527 Feb 28 20:42	5° Y 20'15	23°14'35
evening max el	9526 Mar 18 05:02	21° Y 35'49	21°55'00	retrograde	9527 Mar 11 07:41	11° Y 31'30	
asc. node	9526 Mar 27 06:23	27° Y 05'46		asc. node	9527 Mar 14 03:33	10° Y 52'32	
retrograde	9526 Mar 27 12:18	27° Y 06'04		evening set	9527 Mar 16 07:30	9° Y 26'46	
evening set	9526 Apr 01 00:40	25° Y 15'47		min. Earth dist.	9527 Mar 21 05:42	3° Y 39'06	0.68491 AU
inferior conj	9526 Apr 06 08:02	18° Y 56'33	2°45'17	inferior conj	9527 Mar 21 16:55	3° Y 00'23	2°13'50
minimum elong	9526 Apr 06 05:59	19° Y 03'40	2°44'45	minimum elong	9527 Mar 21 14:42	3° Y 08'02	2°13'12
min. Earth dist.	9526 Apr 06 08:52	18° Y 53'39	0.68498 AU		9527 Mar 23 22:58	30° R 27	
morning rise	9526 Apr 11 11:09	12° Y 44'40		morning rise	9527 Mar 26 21:50	26° H 53'58	
direct	9526 Apr 16 08:41	10° Y 38'43		direct	9527 Mar 31 05:43	25° H 09'53	
morning max el	9526 Apr 26 01:19	16° Y 21'19	22°29'45	morning max el	9527 Apr 08 17:13	0° Y 02'46	21°06'07
desc. node	9526 Apr 30 11:31	21° Y 16'06			9527 Apr 08 16:06	0° Y	
	9526 May 07 05:49	0° B		desc. node	9527 Apr 17 08:26	10° Y 25'24	
	9526 May 27 08:09	0° II			9527 Apr 30 22:47	0° B	
morning set	9526 May 29 19:40	4° II 00'46		morning set	9527 May 09 10:51	13° B 04'12	
max. Earth dist.	9526 Jun 03 17:50	12° II 11'59	1.40628 AU	max. Earth dist.	9527 May 16 21:03	24° B 56'37	1.42698 AU
					9527 May 19 22:46	0° II	
superior conj	9526 Jun 11 12:46	25° II 48'13	-1°36'46	superior conj	9527 May 24 01:12	6° II 54'03	-2°00'58
minimum elong	9526 Jun 11 18:44	26° II 15'05	1°36'23	minimum elong	9527 May 24 06:43	7° II 17'35	2°00'54
	9526 Jun 13 20:16	0° S		evening rise	9527 Jun 04 15:40	27° II 18'13	
evening rise	9526 Jun 21 15:57	14° S 35'16			9527 Jun 06 03:43	0° S	
asc. node	9526 Jun 23 05:10	17° S 30'13		asc. node	9527 Jun 10 02:12	6° S 59'40	
	9526 Jun 30 04:05	0° Ω		evening max el	9527 Jun 21 04:19	23° S 14'45	18°05'49
evening max el	9526 Jul 07 16:54	10° Ω 17'07	18°21'41	retrograde	9527 Jun 27 20:41	26° S 39'32	
retrograde	9526 Jul 15 03:18	14° Ω 00'58		evening set	9527 Jun 30 08:56	26° S 10'44	
evening set	9526 Jul 17 07:46	13° Ω 42'25		inferior conj	9527 Jul 07 02:21	21° S 14'15	1°59'37
inferior conj	9526 Jul 24 18:48	9° Ω 05'55	0°47'30	minimum elong	9527 Jul 07 05:14	21° S 07'22	1°58'27
minimum elong	9526 Jul 24 20:24	9° Ω 02'37	0°46'39	min. Earth dist.	9527 Jul 10 07:42	18° S 11'09	0.60717 AU
desc. node	9526 Jul 27 10:50	6° Ω 54'08		morning rise	9527 Jul 13 22:49	15° S 19'09	
min. Earth dist.	9526 Jul 28 03:40	6° Ω 20'45	0.58471 AU	desc. node	9527 Jul 14 07:57	15° S 04'45	
morning rise	9526 Aug 01 05:35	3° Ω 36'49		direct	9527 Jul 20 13:03	13° S 09'50	
direct	9526 Aug 07 08:45	1° Ω 57'26		morning max el	9527 Aug 03 20:10	21° S 08'05	27°52'21
morning max el	9526 Aug 21 18:04	9° Ω 41'06	27°15'08		9527 Aug 11 12:47	0° Ω	
	9526 Sep 06 07:59	0° M			9527 Aug 30 08:10	0° M	
asc. node	9526 Sep 19 05:04	23° M 29'58		morning set	9527 Sep 05 14:08	12° M 22'51	
morning set	9526 Sep 21 09:46	28° M 04'07		asc. node	9527 Sep 06 01:58	13° M 24'26	
	9526 Sep 22 07:35	0° U		max. Earth dist.	9527 Sep 11 13:27	25° M 11'09	1.31687 AU
superior conj	9526 Sep 28 09:34	13° U 20'18	1°20'49	superior conj	9527 Sep 12 20:32	28° M 02'29	1°03'37
minimum elong	9526 Sep 28 07:26	13° U 08'28	1°20'36	minimum elong	9527 Sep 12 18:19	27° M 50'14	1°03'12
max. Earth dist.	9526 Sep 28 04:41	12° U 53'10	1.31544 AU		9527 Sep 13 17:46	0° U	
evening rise	9526 Oct 05 04:05	28° U 11'34		evening rise	9527 Sep 19 14:15	12° U 50'27	
	9526 Oct 06 00:34	0° M			9527 Sep 28 03:42	0° M	
	9526 Oct 22 15:10	0° S		desc. node	9527 Oct 10 06:18	18° M 54'07	
desc. node	9526 Oct 23 09:08	1° S 05'57		evening max el	9527 Oct 16 11:01	25° M 49'35	25°19'30
evening max el	9526 Nov 03 17:28	14° S 49'35	26°34'55		9527 Oct 21 16:44	0° S	
retrograde	9526 Nov 17 15:37	21° S 56'49		retrograde	9527 Oct 30 08:27	2° S 49'36	
evening set	9526 Nov 24 08:36	20° S 05'03		evening set	9527 Nov 05 05:20	1° S 30'44	
min. Earth dist.	9526 Nov 28 07:12	17° S 29'34	0.59413 AU		9527 Nov 08 03:16	30° R 27	

min. Earth dist.	9527 Nov 09 23:05	28° \mathbb{M} 51'17	0.57396 AU	min. Earth dist.	9528 Oct 21 08:56	9° \mathbb{M} 10'08	0.55759 AU
inferior conj	9527 Nov 12 20:56	26° \mathbb{M} 53'10	-5°18'02	inferior conj	9528 Oct 23 09:45	7° \mathbb{M} 57'09	-5°41'08
minimum elong	9527 Nov 13 03:01	26° \mathbb{M} 42'51	5°16'51	minimum elong	9528 Oct 23 09:39	7° \mathbb{M} 57'19	5°40'56
morning rise	9527 Nov 21 03:01	22° \mathbb{M} 39'18		morning rise	9528 Oct 31 19:46	4° \mathbb{M} 02'16	
direct	9527 Nov 23 11:39	22° \mathbb{M} 22'44		direct	9528 Nov 03 15:03	3° \mathbb{M} 42'36	
morning max el	9527 Dec 02 10:51	26° \mathbb{M} 41'00	19°01'35	morning max el	9528 Nov 14 01:17	8° \mathbb{M} 37'48	20°09'21
asc. node	9527 Dec 03 01:54	27° \mathbb{M} 18'20		asc. node	9528 Nov 18 22:53	14° \mathbb{M} 17'43	
	9527 Dec 05 10:32	0° \mathbb{X}			9528 Nov 28 06:59	0° \mathbb{X}	
morning set	9527 Dec 19 01:55	23° \mathbb{X} 25'07		morning set	9528 Dec 02 07:30	8° \mathbb{X} 02'00	
	9527 Dec 22 09:42	0° \mathbb{Z}					
superior conj	9527 Dec 27 10:16	9° \mathbb{Z} 48'18	1°09'50	superior conj	9528 Dec 09 23:07	23° \mathbb{X} 40'09	1°27'33
minimum elong	9527 Dec 27 13:26	10° \mathbb{Z} 03'30	1°09'46	minimum elong	9528 Dec 10 01:31	23° \mathbb{X} 52'11	1°27'40
max. Earth dist.	9528 Jan 03 07:37	22° \mathbb{Z} 35'07	1.38906 AU	max. Earth dist.	9528 Dec 13 03:49	0° \mathbb{Z}	
desc. node	9528 Jan 06 05:09	27° \mathbb{Z} 41'38		evening rise	9528 Dec 15 14:22	4° \mathbb{Z} 41'38	1.36766 AU
evening rise	9528 Jan 07 03:39	29° \mathbb{Z} 18'46		desc. node	9528 Dec 19 09:28	11° \mathbb{Z} 44'11	
	9528 Jan 07 13:16	0° \approx			9528 Dec 23 02:08	18° \mathbb{Z} 17'04	
	9528 Jan 26 21:07	0° \mathbb{H}			9528 Dec 30 03:34	0° \approx	
evening max el	9528 Feb 11 10:24	19° \mathbb{H} 08'03	24°34'08	evening max el	9529 Jan 21 03:17	0° \mathbb{H}	
retrograde	9528 Feb 22 23:22	25° \mathbb{H} 52'43		retrograde	9529 Jan 23 23:44	2° \mathbb{H} 56'57	25°46'33
evening set	9528 Feb 28 11:23	23° \mathbb{H} 35'05		evening set	9529 Feb 05 10:14	10° \mathbb{H} 04'08	
asc. node	9528 Feb 29 00:44	23° \mathbb{H} 05'17		asc. node	9529 Feb 11 10:40	7° \mathbb{H} 36'10	
min. Earth dist.	9528 Mar 04 01:29	18° \mathbb{H} 22'09	0.68070 AU	min. Earth dist.	9529 Feb 14 21:54	3° \mathbb{H} 59'41	
inferior conj	9528 Mar 05 00:22	17° \mathbb{H} 05'49	1°33'26	inferior conj	9529 Feb 15 17:57	2° \mathbb{H} 58'03	0.67258 AU
minimum elong	9528 Mar 04 22:26	17° \mathbb{H} 12'14	1°32'51	minimum elong	9529 Feb 17 04:26	1° \mathbb{H} 08'57	0°44'19
morning rise	9528 Mar 10 09:38	11° \mathbb{H} 06'21			9529 Feb 17 03:21	1° \mathbb{H} 12'24	0°44'03
direct	9528 Mar 14 04:40	9° \mathbb{H} 43'55		morning rise	9529 Feb 18 02:25	30° \mathbb{R} \approx	
morning max el	9528 Mar 21 16:29	13° \mathbb{H} 55'49	19°54'19	direct	9529 Feb 22 20:33	25° \approx 18'22	
desc. node	9528 Apr 03 05:17	0° \mathbb{Y} 06'17		morning max el	9529 Feb 26 03:57	24° \approx 15'40	
	9528 Apr 03 03:34	0° \mathbb{Y}			9529 Mar 04 23:30	27° \approx 58'46	18°57'30
morning set	9528 Apr 17 09:41	21° \mathbb{Y} 27'36		greatest brilliancy	9529 Mar 06 20:55	0° \mathbb{H}	
	9528 Apr 22 21:47	0° \mathbb{B}		desc. node	9529 Mar 18 22:46	16° \mathbb{H} 53'15	-0.8m
max. Earth dist.	9528 Apr 28 07:34	8° \mathbb{B} 31'36	1.44322 AU		9529 Mar 21 02:08	20° \mathbb{H} 10'00	
					9529 Mar 27 10:34	0° \mathbb{Y}	
superior conj	9528 May 03 13:17	16° \mathbb{B} 56'43	-2°12'26	morning set	9529 Mar 27 15:12	0° \mathbb{Y} 18'00	
minimum elong	9528 May 03 14:18	17° \mathbb{B} 00'53	2°12'39	max. Earth dist.	9529 Mar 27 15:12	0° \mathbb{Y} 18'00	
	9528 May 11 10:55	0° \mathbb{I}			9529 Apr 11 00:05	22° \mathbb{Y} 43'01	1.45321 AU
evening rise	9528 May 16 20:40	9° \mathbb{I} 09'51		superior conj	9529 Apr 13 03:30	26° \mathbb{Y} 05'09	-2°05'14
asc. node	9528 May 26 23:16	26° \mathbb{I} 07'13		minimum elong	9529 Apr 12 21:17	25° \mathbb{Y} 40'40	2°05'04
	9528 May 29 12:16	0° \mathbb{E}			9529 Apr 15 15:01	0° \mathbb{B}	
evening max el	9528 Jun 03 17:58	6° \mathbb{E} 33'38	18°08'59	evening rise	9529 Apr 28 02:42	20° \mathbb{B} 02'10	
retrograde	9528 Jun 10 03:01	9° \mathbb{E} 54'17			9529 May 04 05:45	0° \mathbb{I}	
evening set	9528 Jun 12 23:00	9° \mathbb{E} 12'45		asc. node	9529 May 13 20:21	14° \mathbb{I} 44'41	
inferior conj	9528 Jun 19 02:34	3° \mathbb{E} 57'31	2°46'13	evening max el	9529 May 18 06:39	20° \mathbb{I} 04'34	18°30'26
minimum elong	9528 Jun 19 05:04	3° \mathbb{E} 50'46	2°45'21	retrograde	9529 May 24 18:02	23° \mathbb{I} 35'08	
min. Earth dist.	9528 Jun 21 20:34	1° \mathbb{E} 00'09	0.62934 AU	evening set	9529 May 27 21:40	22° \mathbb{I} 39'24	
	9528 Jun 22 20:26	30° \mathbb{R} \mathbb{I}		inferior conj	9529 Jun 02 15:19	17° \mathbb{I} 06'54	3°11'39
morning rise	9528 Jun 25 09:27	27° \mathbb{I} 47'04		minimum elong	9529 Jun 02 16:42	17° \mathbb{I} 02'47	3°11'10
desc. node	9528 Jun 30 05:02	25° \mathbb{I} 27'05		min. Earth dist.	9529 Jun 04 18:36	14° \mathbb{I} 34'08	0.64895 AU
direct	9528 Jul 02 03:15	25° \mathbb{I} 15'04		morning rise	9529 Jun 08 10:50	10° \mathbb{I} 49'11	
	9528 Jul 12 13:13	0° \mathbb{E}		direct	9529 Jun 15 01:22	8° \mathbb{I} 05'30	
morning max el	9528 Jul 16 03:31	3° \mathbb{E} 17'51	27°51'14	desc. node	9529 Jun 17 02:04	8° \mathbb{I} 19'13	
	9528 Aug 05 00:38	0° \mathbb{Q}		morning max el	9529 Jun 28 13:39	16° \mathbb{I} 01'47	27°15'20
morning set	9528 Aug 19 12:04	26° \mathbb{Q} 20'24			9529 Jul 10 01:43	0° \mathbb{E}	
	9528 Aug 21 07:08	0° \mathbb{P}			9529 Jul 28 19:37	0° \mathbb{Q}	
asc. node	9528 Aug 22 22:52	3° \mathbb{P} 26'51		morning set	9529 Aug 03 00:54	9° \mathbb{Q} 48'56	
max. Earth dist.	9528 Aug 24 17:36	7° \mathbb{P} 13'27	1.32322 AU	max. Earth dist.	9529 Aug 07 13:33	18° \mathbb{Q} 51'43	1.33451 AU
				asc. node	9529 Aug 09 19:45	23° \mathbb{Q} 32'32	
superior conj	9528 Aug 27 04:49	12° \mathbb{P} 32'53	0°41'35	superior conj	9529 Aug 11 08:17	26° \mathbb{Q} 44'54	0°15'10
minimum elong	9528 Aug 27 03:02	12° \mathbb{P} 23'12	0°41'07	minimum elong	9529 Aug 11 07:32	26° \mathbb{Q} 40'53	0°14'49
evening rise	9528 Sep 03 01:48	27° \mathbb{P} 30'31		behind sun begin	9529 Aug 11 05:23	26° \mathbb{Q} 29'32	
	9528 Sep 04 05:54	0° \mathbb{A}		behind sun end	9529 Aug 11 09:40	26° \mathbb{Q} 52'14	
	9528 Sep 21 11:42	0° \mathbb{L}			9529 Aug 12 20:59	0° \mathbb{P}	
desc. node	9528 Sep 26 03:27	5° \mathbb{L} 22'35		evening rise	9529 Aug 18 12:47	12° \mathbb{P} 05'36	
evening max el	9528 Sep 26 22:38	6° \mathbb{L} 10'05	23°43'43		9529 Aug 27 15:38	0° \mathbb{A}	
retrograde	9528 Oct 10 12:26	12° \mathbb{L} 56'58		evening max el	9529 Sep 08 11:33	16° \mathbb{A} 20'47	22°04'18
evening set	9528 Oct 15 01:28	12° \mathbb{L} 11'56		desc. node	9529 Sep 13 00:37	20° \mathbb{A} 02'42	

































































































































































































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evening set	9529 Sep 24 06:30	22°♄19'25		evening rise	9530 Aug 02 21:13	26°♄29'53	
min. Earth dist.	9529 Oct 02 16:27	18°♄39'07	0.54797 AU		9530 Aug 04 14:08	0°♄	
inferior conj	9529 Oct 03 06:34	18°♄19'20	-5°12'21	evening max el	9530 Aug 21 10:33	26°♄57'29	20°36'23
minimum elong	9529 Oct 02 22:54	18°♄30'05	5°10'57		9530 Aug 25 02:11	0°♄	
morning rise	9529 Oct 11 16:48	14°♄31'56		desc. node	9530 Aug 30 21:48	2°♄24'21	
direct	9529 Oct 15 03:07	14°♄05'55		retrograde	9530 Sep 01 16:54	2°♄32'37	
morning max el	9529 Oct 27 02:22	19°♄44'30	21°38'42	evening set	9530 Sep 03 19:08	2°♄21'51	
	9529 Nov 04 09:57	0°♄			9530 Sep 10 03:16	30°♄♄	
asc. node	9529 Nov 05 19:49	2°♄12'30		inferior conj	9530 Sep 12 23:07	28°♄25'05	-3°49'21
morning set	9529 Nov 16 17:03	22°♄48'13		minimum elong	9530 Sep 12 13:38	28°♄38'45	3°46'27
	9529 Nov 20 02:54	0°♄		min. Earth dist.	9530 Sep 14 01:13	27°♄47'29	0.54736 AU
				morning rise	9530 Sep 21 07:53	24°♄24'25	
superior conj	9529 Nov 23 21:46	7°♄59'20	1°37'31	direct	9530 Sep 25 11:21	23°♄47'36	
minimum elong	9529 Nov 23 22:58	8°♄05'35	1°37'47	morning max el	9530 Oct 08 17:26	0°♄11'13	23°22'48
max. Earth dist.	9529 Nov 28 02:23	16°♄35'43	1.34862 AU		9530 Oct 08 12:36	0°♄	
evening rise	9529 Dec 02 08:02	24°♄53'28		asc. node	9530 Oct 23 16:44	20°♄49'26	
	9529 Dec 05 01:32	0°♄			9530 Oct 28 12:13	0°♄	
desc. node	9529 Dec 09 23:08	8°♄42'01		morning set	9530 Nov 01 04:31	7°♄37'19	
	9529 Dec 23 16:03	0°♄					
evening max el	9530 Jan 06 13:09	16°♄40'40	26°44'31	superior conj	9530 Nov 08 03:03	22°♄35'52	1°40'34
retrograde	9530 Jan 19 15:39	23°♄59'43		minimum elong	9530 Nov 08 03:00	22°♄35'36	1°40'49
evening set	9530 Jan 26 03:35	21°♄25'30		max. Earth dist.	9530 Nov 10 22:10	28°♄34'00	1.33343 AU
min. Earth dist.	9530 Jan 30 04:49	17°♄21'57	0.66067 AU		9530 Nov 11 14:32	0°♄	
inferior conj	9530 Feb 01 03:06	15°♄05'59	-0°13'13	evening rise	9530 Nov 15 19:33	8°♄36'28	
minimum elong	9530 Feb 01 03:27	15°♄04'56	0°12'49	desc. node	9530 Nov 26 20:11	28°♄50'16	
transit middle	9530 Feb 01 03:27	15°♄04'56	0°12'49		9530 Nov 27 12:53	0°♄	
transit begin	9530 Feb 01 01:41	15°♄10'08			9530 Dec 19 22:26	0°♄	
transit end	9530 Feb 01 05:14	14°♄59'43		evening max el	9530 Dec 20 01:53	0°♄08'15	27°20'57
asc. node	9530 Feb 01 19:01	14°♄19'25		retrograde	9531 Jan 02 15:03	7°♄30'10	
morning rise	9530 Feb 07 04:24	9°♄26'31		evening set	9531 Jan 09 11:53	4°♄56'05	
direct	9530 Feb 10 01:39	8°♄40'28		min. Earth dist.	9531 Jan 13 08:00	1°♄25'25	0.64522 AU
morning max el	9530 Feb 16 12:48	12°♄07'14	18°17'06		9531 Jan 14 16:06	30°♄♄	
	9530 Mar 01 09:20	0°♄		inferior conj	9531 Jan 15 17:54	28°♄50'20	-1°18'29
morning set	9530 Mar 07 22:19	10°♄28'01		minimum elong	9531 Jan 15 20:19	28°♄43'52	1°17'09
desc. node	9530 Mar 07 22:59	10°♄30'41		asc. node	9531 Jan 19 16:07	25°♄01'45	
	9530 Mar 20 05:14	0°♄		morning rise	9531 Jan 22 06:27	23°♄24'36	
				direct	9531 Jan 24 19:21	22°♄51'29	
superior conj	9530 Mar 23 09:00	4°♄57'23	-1°38'11	morning max el	9531 Jan 31 05:40	26°♄13'00	17°53'35
minimum elong	9530 Mar 22 23:25	4°♄19'49	1°37'14		9531 Feb 03 12:08	0°♄	
max. Earth dist.	9530 Mar 24 19:43	7°♄13'18	1.45592 AU	morning set	9531 Feb 17 10:31	22°♄03'28	
evening rise	9530 Apr 08 09:33	29°♄59'47			9531 Feb 22 04:41	0°♄	
	9530 Apr 08 09:36	0°♄		desc. node	9531 Feb 22 19:50	1°♄02'44	
greatest brilliancy	9530 Apr 19 09:35	17°♄06'20	-0.8m				
	9530 Apr 28 10:19	0°♄		superior conj	9531 Mar 03 00:39	14°♄24'02	-0°57'50
asc. node	9530 Apr 30 17:27	2°♄42'44		minimum elong	9531 Mar 02 18:10	13°♄58'05	0°56'50
evening max el	9530 May 01 15:57	3°♄41'54	19°09'15	max. Earth dist.	9531 Mar 07 15:08	21°♄43'01	1.45118 AU
retrograde	9530 May 08 14:10	7°♄35'02			9531 Mar 12 22:08	0°♄	
evening set	9530 May 12 01:46	6°♄24'22		evening rise	9531 Mar 19 00:02	9°♄23'20	
inferior conj	9530 May 17 13:04	0°♄36'16	3°20'15		9531 Apr 01 15:30	0°♄	
minimum elong	9530 May 17 13:11	0°♄35'52	3°19'58	greatest brilliancy	9531 Apr 02 21:46	1°♄50'43	-0.6m
	9530 May 18 00:18	30°♄♄		evening max el	9531 Apr 14 20:12	17°♄21'43	20°03'57
min. Earth dist.	9530 May 19 01:08	28°♄40'11	0.66474 AU	asc. node	9531 Apr 17 14:35	19°♄49'10	
morning rise	9530 May 23 00:09	24°♄16'34		retrograde	9531 Apr 22 12:36	21°♄47'52	
direct	9530 May 29 06:19	21°♄32'33		evening set	9531 Apr 26 08:55	20°♄21'57	
desc. node	9530 Jun 03 23:04	23°♄20'53		inferior conj	9531 May 01 16:50	14°♄20'04	3°15'21
morning max el	9530 Jun 11 00:17	29°♄08'58	26°11'52	minimum elong	9531 May 01 15:52	14°♄23'20	3°15'03
	9530 Jun 11 20:04	0°♄		min. Earth dist.	9531 May 02 14:27	13°♄06'52	0.67614 AU
	9530 Jul 03 21:46	0°♄		morning rise	9531 May 06 22:32	8°♄01'47	
morning set	9530 Jul 17 01:09	22°♄39'29		direct	9531 May 12 17:14	5°♄27'11	
	9530 Jul 20 21:49	0°♄		desc. node	9531 May 21 20:02	10°♄01'29	
max. Earth dist.	9530 Jul 20 23:01	0°♄05'51	1.35057 AU	morning max el	9531 May 24 09:56	12°♄28'18	24°50'19
					9531 Jun 07 12:17	0°♄	
superior conj	9530 Jul 26 04:30	10°♄32'00	-0°14'53		9531 Jun 26 16:07	0°♄	
minimum elong	9530 Jul 26 05:23	10°♄36'28	0°14'59	morning set	9531 Jun 29 08:22	4°♄40'20	
behind sun begin	9530 Jul 26 03:11	10°♄25'14		max. Earth dist.	9531 Jul 02 22:50	11°♄10'00	1.37069 AU
behind sun end	9530 Jul 26 07:35	10°♄47'42					

superior conj	9531 Jul 09 14:26	23° \mathring{O} 46'36	-0°47'13		9532 Jun 17 23:24	0° \mathring{O}	
minimum elong	9531 Jul 09 17:26	24° \mathring{O} 01'13	0°46'59				
	9531 Jul 12 18:00	0° \mathring{O}		superior conj	9532 Jun 21 10:15	6° \mathring{O} 19'09	-1°19'32
asc. node	9531 Jul 14 13:37	3° \mathring{O} 38'30		minimum elong	9532 Jun 21 15:23	6° \mathring{O} 42'57	1°19'08
evening rise	9531 Jul 18 00:45	10° \mathring{O} 36'51		asc. node	9532 Jun 30 10:36	23° \mathring{O} 30'33	
	9531 Jul 28 12:43	0° \mathring{O}		evening rise	9532 Jun 30 20:29	24° \mathring{O} 18'16	
evening max el	9531 Aug 03 23:16	8° \mathring{O} 19'13	19°27'42		9532 Jul 03 19:47	0° \mathring{O}	
retrograde	9531 Aug 13 12:45	13° \mathring{O} 03'21		evening max el	9532 Jul 16 23:47	20° \mathring{O} 24'32	18°39'54
evening set	9531 Aug 15 08:53	12° \mathring{O} 53'35		retrograde	9532 Jul 25 01:31	24° \mathring{O} 25'50	
desc. node	9531 Aug 17 18:58	12° \mathring{O} 13'15		evening set	9532 Jul 27 02:02	24° \mathring{O} 11'35	
inferior conj	9531 Aug 24 01:58	8° \mathring{O} 47'30	-1°56'25	desc. node	9532 Aug 03 16:09	20° \mathring{O} 02'28	
minimum elong	9531 Aug 23 20:44	8° \mathring{O} 55'55	1°54'33	inferior conj	9532 Aug 04 00:20	19° \mathring{O} 47'08	-0°06'15
min. Earth dist.	9531 Aug 26 13:22	7° \mathring{O} 12'09	0.55619 AU	minimum elong	9532 Aug 04 00:05	19° \mathring{O} 47'37	0°06'23
morning rise	9531 Sep 01 06:01	4° \mathring{O} 15'23		transit middle	9532 Aug 04 00:05	19° \mathring{O} 47'37	0°06'23
direct	9531 Sep 06 04:59	3° \mathring{O} 19'56		transit begin	9532 Aug 03 20:44	19° \mathring{O} 53'54	
morning max el	9531 Sep 20 05:23	10° \mathring{O} 22'40	25°07'55	transit end	9532 Aug 04 03:26	19° \mathring{O} 41'20	
	9531 Oct 05 00:53	0° \mathring{O}		min. Earth dist.	9532 Aug 07 05:59	17° \mathring{O} 22'32	0.57284 AU
asc. node	9531 Oct 10 13:39	9° \mathring{O} 58'07		morning rise	9532 Aug 11 18:40	14° \mathring{O} 37'57	
morning set	9531 Oct 16 16:12	22° \mathring{O} 24'40		direct	9532 Aug 17 12:55	13° \mathring{O} 15'47	
	9531 Oct 20 04:07	0° \mathring{O}		morning max el	9532 Aug 31 20:38	20° \mathring{O} 46'51	26°37'03
					9532 Sep 08 20:14	0° \mathring{O}	
superior conj	9531 Oct 23 12:30	7° \mathring{O} 22'30	1°37'21	asc. node	9532 Sep 26 10:34	29° \mathring{O} 29'19	
minimum elong	9531 Oct 23 11:23	7° \mathring{O} 16'23	1°37'28		9532 Sep 26 16:39	0° \mathring{O}	
max. Earth dist.	9531 Oct 25 01:29	10° \mathring{O} 45'12	1.32279 AU	morning set	9532 Sep 30 02:25	7° \mathring{O} 04'25	
evening rise	9531 Oct 30 16:47	22° \mathring{O} 45'02					
	9531 Nov 03 07:30	0° \mathring{O}		superior conj	9532 Oct 06 23:59	22° \mathring{O} 11'33	1°28'25
desc. node	9531 Nov 13 17:17	18° \mathring{O} 34'48		minimum elong	9532 Oct 06 22:07	22° \mathring{O} 01'10	1°28'19
	9531 Nov 21 08:02	0° \mathring{O}		max. Earth dist.	9532 Oct 07 09:50	23° \mathring{O} 06'15	1.31679 AU
evening max el	9531 Dec 02 12:26	13° \mathring{O} 08'27	27°29'13		9532 Oct 10 12:48	0° \mathring{O}	
retrograde	9531 Dec 16 07:34	20° \mathring{O} 26'19		evening rise	9532 Oct 13 20:49	7° \mathring{O} 10'22	
evening set	9531 Dec 23 08:47	18° \mathring{O} 01'03			9532 Oct 25 19:10	0° \mathring{O}	
min. Earth dist.	9531 Dec 27 01:47	14° \mathring{O} 58'58	0.62678 AU	desc. node	9532 Oct 30 14:25	7° \mathring{O} 45'15	
inferior conj	9531 Dec 29 22:03	12° \mathring{O} 15'19	-2°29'35	evening max el	9532 Nov 13 18:18	25° \mathring{O} 28'22	27°04'37
minimum elong	9531 Dec 30 02:55	12° \mathring{O} 03'37	2°27'21		9532 Nov 19 12:20	0° \mathring{O}	
morning rise	9532 Jan 05 23:18	7° \mathring{O} 06'10		retrograde	9532 Nov 27 15:57	2° \mathring{O} 38'47	
asc. node	9532 Jan 06 13:12	6° \mathring{O} 55'36		evening set	9532 Dec 04 14:36	0° \mathring{O} 32'16	
direct	9532 Jan 08 06:10	6° \mathring{O} 42'07			9532 Dec 05 11:13	30° \mathring{O} 42'07	
morning max el	9532 Jan 14 23:01	10° \mathring{O} 07'53	17°47'33	min. Earth dist.	9532 Dec 08 08:57	27° \mathring{O} 50'37	0.60629 AU
	9532 Jan 28 05:15	0° \mathring{O}		inferior conj	9532 Dec 11 12:11	25° \mathring{O} 12'03	-3°42'23
morning set	9532 Jan 30 22:47	4° \mathring{O} 48'01		minimum elong	9532 Dec 11 19:15	24° \mathring{O} 57'06	3°39'46
desc. node	9532 Feb 09 16:43	21° \mathring{O} 42'12		morning rise	9532 Dec 19 02:23	20° \mathring{O} 22'36	
				direct	9532 Dec 21 06:26	20° \mathring{O} 03'58	
superior conj	9532 Feb 11 15:07	24° \mathring{O} 57'20	-0°14'22	asc. node	9532 Dec 23 10:17	20° \mathring{O} 23'14	
minimum elong	9532 Feb 11 13:42	24° \mathring{O} 51'22	0°13'56	morning max el	9532 Dec 28 13:32	23° \mathring{O} 42'47	18°00'09
behind sun begin	9532 Feb 11 09:09	24° \mathring{O} 32'21			9533 Jan 02 14:17	0° \mathring{O}	
behind sun end	9532 Feb 11 18:14	25° \mathring{O} 10'22		morning set	9533 Jan 13 04:37	18° \mathring{O} 21'56	
	9532 Feb 14 16:10	0° \mathring{O}			9533 Jan 19 12:44	0° \mathring{O}	
max. Earth dist.	9532 Feb 18 07:56	5° \mathring{O} 56'35	1.43960 AU				
evening rise	9532 Feb 26 12:23	18° \mathring{O} 50'20		superior conj	9533 Jan 23 06:42	6° \mathring{O} 41'54	0°24'41
	9532 Mar 04 20:25	0° \mathring{O}		minimum elong	9533 Jan 23 08:41	6° \mathring{O} 50'37	0°24'39
	9532 Mar 26 18:45	0° \mathring{O}		desc. node	9533 Jan 26 13:38	12° \mathring{O} 25'21	
evening max el	9532 Mar 27 18:58	1° \mathring{O} 03'15	21°11'45	max. Earth dist.	9533 Jan 30 20:53	19° \mathring{O} 41'23	1.42245 AU
asc. node	9532 Apr 03 11:45	5° \mathring{O} 49'47		evening rise	9533 Feb 05 13:06	28° \mathring{O} 55'12	
retrograde	9532 Apr 05 11:03	6° \mathring{O} 09'11			9533 Feb 06 05:25	0° \mathring{O}	
evening set	9532 Apr 09 17:13	4° \mathring{O} 27'53			9533 Feb 26 11:25	0° \mathring{O}	
	9532 Apr 13 17:26	30° \mathring{O} 47'03		evening max el	9533 Mar 10 12:56	14° \mathring{O} 47'03	22°28'31
inferior conj	9532 Apr 15 00:12	28° \mathring{O} 14'25	2°59'09	retrograde	9533 Mar 20 07:53	20° \mathring{O} 34'40	
minimum elong	9532 Apr 14 22:27	28° \mathring{O} 20'29	2°58'43	asc. node	9533 Mar 21 08:55	20° \mathring{O} 29'17	
min. Earth dist.	9532 Apr 15 08:25	27° \mathring{O} 45'51	0.68307 AU	evening set	9533 Mar 25 01:01	18° \mathring{O} 38'15	
morning rise	9532 Apr 20 03:27	21° \mathring{O} 59'40		inferior conj	9533 Mar 30 09:04	12° \mathring{O} 15'47	2°33'04
direct	9532 Apr 25 08:58	19° \mathring{O} 41'44		minimum elong	9533 Mar 30 06:54	12° \mathring{O} 23'20	2°32'28
morning max el	9532 May 05 19:25	25° \mathring{O} 54'27	23°20'50	min. Earth dist.	9533 Mar 30 04:46	12° \mathring{O} 30'47	0.68552 AU
desc. node	9532 May 07 16:59	27° \mathring{O} 54'44		morning rise	9533 Apr 04 12:39	6° \mathring{O} 06'08	
	9532 May 09 13:09	0° \mathring{O}		direct	9533 Apr 09 04:26	4° \mathring{O} 09'08	
	9532 May 31 01:03	0° \mathring{O}		morning max el	9533 Apr 18 07:56	9° \mathring{O} 29'25	21°52'59
morning set	9532 Jun 09 17:07	15° \mathring{O} 36'58		desc. node	9533 Apr 24 13:54	16° \mathring{O} 40'39	
max. Earth dist.	9532 Jun 13 18:55	22° \mathring{O} 34'59	1.39326 AU		9533 May 04 07:55	0° \mathring{O}	

morning set	9533 May 20 23:13	25°♄20'06		desc. node	9534 Apr 11 10:45	6°♁04'15	
	9533 May 23 20:27	0°♂			9534 Apr 27 15:06	0°♄	
max. Earth dist.	9533 May 26 18:54	4°♂50'21	1.41554 AU	morning set	9534 Apr 30 05:16	3°♄59'52	
				max. Earth dist.	9534 May 09 01:49	17°♄59'39	1.43463 AU
superior conj	9533 Jun 03 11:30	17°♂59'49	-1°48'10	superior conj	9534 May 15 13:40	28°♄38'17	-2°07'47
minimum elong	9533 Jun 03 17:40	18°♂26'56	1°47'53	minimum elong	9534 May 15 17:50	28°♄55'40	2°07'52
	9533 Jun 10 03:55	0°♄			9534 May 16 09:13	0°♂	
evening rise	9533 Jun 14 04:47	7°♄25'45		evening rise	9534 May 27 21:06	19°♂47'58	
asc. node	9533 Jun 17 07:38	13°♄09'50			9534 Jun 02 17:15	0°♄	
	9533 Jun 27 15:17	0°♂		asc. node	9534 Jun 04 04:40	2°♄30'33	
evening max el	9533 Jun 30 08:19	3°♂05'39	18°12'31	evening max el	9534 Jun 13 21:00	16°♄12'38	18°04'48
retrograde	9533 Jul 07 09:27	6°♂39'13		retrograde	9534 Jun 20 09:03	19°♄34'07	
evening set	9533 Jul 09 17:21	6°♂16'32		evening set	9534 Jun 23 00:36	19°♄00'07	
inferior conj	9533 Jul 16 20:26	1°♂31'10	1°21'26	inferior conj	9534 Jun 29 11:35	13°♄55'07	2°22'17
minimum elong	9533 Jul 16 22:51	1°♂25'51	1°20'19	minimum elong	9534 Jun 29 14:27	13°♄47'53	2°21'12
	9533 Jul 18 13:44	30°♄		min. Earth dist.	9534 Jul 02 12:36	10°♄51'58	0.61679 AU
min. Earth dist.	9533 Jul 20 05:01	28°♄35'43	0.59418 AU	morning rise	9534 Jul 06 02:03	7°♄52'08	
desc. node	9533 Jul 21 13:17	27°♄31'20		desc. node	9534 Jul 08 10:22	6°♄30'56	
morning rise	9533 Jul 24 01:15	25°♄49'59		direct	9534 Jul 12 18:31	5°♄32'21	
direct	9533 Jul 30 10:06	23°♄57'34		morning max el	9534 Jul 26 23:31	13°♄33'31	27°56'36
	9533 Aug 11 20:47	0°♂			9534 Aug 09 03:41	0°♂	
morning max el	9533 Aug 13 18:44	1°♂47'34	27°35'43		9534 Aug 26 15:19	0°♄	
	9533 Sep 03 04:27	0°♄		morning set	9534 Aug 29 11:22	5°♄42'12	
asc. node	9533 Sep 13 07:28	19°♄16'36		asc. node	9534 Aug 31 04:22	9°♄14'47	
morning set	9533 Sep 14 09:27	21°♄31'54		max. Earth dist.	9534 Sep 04 03:07	17°♄41'46	1.31895 AU
	9533 Sep 18 08:05	0°♂					
superior conj	9533 Sep 21 11:38	6°♂57'15	1°14'08	superior conj	9534 Sep 05 21:41	21°♄34'38	0°54'50
minimum elong	9533 Sep 21 09:25	6°♂44'53	1°13'49	minimum elong	9534 Sep 05 19:34	21°♄23'05	0°54'23
max. Earth dist.	9533 Sep 20 19:41	5°♂28'41	1.31549 AU		9534 Sep 09 17:26	0°♂	
evening rise	9533 Sep 28 05:20	21°♂45'41		evening rise	9534 Sep 12 16:18	6°♂25'27	
	9533 Oct 02 04:21	0°♄			9534 Sep 24 22:00	0°♄	
desc. node	9533 Oct 17 11:33	26°♄08'13		desc. node	9534 Oct 04 08:42	13°♄25'31	
	9533 Oct 20 09:40	0°♄		evening max el	9534 Oct 08 06:57	17°♄37'24	24°40'19
evening max el	9533 Oct 26 16:40	6°♄57'35	26°06'14	retrograde	9534 Oct 22 02:03	24°♄33'25	
retrograde	9533 Nov 09 14:33	14°♄01'03		evening set	9534 Oct 27 10:54	23°♄29'05	
evening set	9533 Nov 16 00:43	12°♄22'36		min. Earth dist.	9534 Nov 01 18:06	20°♄42'35	0.56630 AU
min. Earth dist.	9533 Nov 20 05:33	9°♄47'51	0.58532 AU	inferior conj	9534 Nov 04 09:07	19°♄02'00	-5°33'09
inferior conj	9533 Nov 23 08:44	7°♄30'19	-4°48'31	minimum elong	9534 Nov 04 13:07	18°♄55'36	5°32'33
minimum elong	9533 Nov 23 16:15	7°♄16'32	4°46'31	morning rise	9534 Nov 12 17:34	14°♄57'30	
morning rise	9533 Dec 01 10:10	3°♄03'24		direct	9534 Nov 15 06:05	14°♄40'02	
direct	9533 Dec 03 15:43	2°♄46'54		morning max el	9534 Nov 24 19:22	19°♄12'30	19°27'45
asc. node	9533 Dec 10 07:21	5°♄23'44		asc. node	9534 Nov 27 04:20	21°♄44'28	
morning max el	9533 Dec 11 21:31	6°♄47'38	18°32'58		9534 Dec 02 23:24	0°♄	
	9533 Dec 26 15:41	0°♄		morning set	9534 Dec 12 00:53	16°♄57'43	
morning set	9533 Dec 27 22:38	2°♄28'56			9534 Dec 18 12:55	0°♄	
superior conj	9534 Jan 05 19:46	19°♄27'11	0°55'49	superior conj	9534 Dec 20 01:19	2°♄59'12	1°18'20
minimum elong	9534 Jan 05 22:57	19°♄42'02	0°55'42	minimum elong	9534 Dec 20 04:15	3°♄13'31	1°18'20
	9534 Jan 11 15:26	0°♄		max. Earth dist.	9534 Dec 26 11:16	15°♄09'30	1.37974 AU
max. Earth dist.	9534 Jan 13 05:24	2°♄46'06	1.40169 AU	evening rise	9534 Dec 30 04:37	21°♄50'39	
desc. node	9534 Jan 13 10:32	3°♄08'23		desc. node	9534 Dec 31 07:29	23°♄47'59	
evening rise	9534 Jan 17 10:05	9°♄54'31			9535 Jan 03 22:58	0°♄	
	9534 Jan 30 04:08	0°♄			9535 Jan 24 02:17	0°♄	
evening max el	9534 Feb 21 03:33	28°♄32'58	23°48'48	evening max el	9535 Feb 03 16:47	12°♄21'21	25°06'04
	9534 Feb 22 15:55	0°♄		retrograde	9535 Feb 15 15:31	19°♄17'21	
retrograde	9534 Mar 04 01:40	4°♄59'00		evening set	9535 Feb 21 08:55	16°♄54'37	
asc. node	9534 Mar 08 06:06	3°♄35'39		asc. node	9535 Feb 23 03:14	15°♄12'04	
evening set	9534 Mar 09 06:46	2°♄48'22		min. Earth dist.	9535 Feb 25 19:53	11°♄56'40	0.67778 AU
	9534 Mar 11 22:57	30°♄		inferior conj	9535 Feb 26 23:48	10°♄25'24	1°13'40
min. Earth dist.	9534 Mar 14 01:18	27°♄15'45	0.68369 AU	minimum elong	9535 Feb 26 22:09	10°♄30'46	1°13'11
inferior conj	9534 Mar 14 17:33	26°♄20'22	1°57'46	morning rise	9535 Mar 04 11:43	4°♄29'41	
minimum elong	9534 Mar 14 15:24	26°♄27'43	1°57'07	direct	9535 Mar 08 01:34	3°♄16'09	
morning rise	9534 Mar 20 00:02	20°♄16'59		morning max el	9535 Mar 15 05:37	7°♄14'15	19°28'10
direct	9534 Mar 24 02:22	18°♄42'17		greatest brilliancy	9535 Mar 27 23:08	23°♄55'01	-0.7m
morning max el	9534 Apr 01 02:50	23°♄15'50	20°33'54	desc. node	9535 Mar 29 07:36	25°♄55'37	
	9534 Apr 06 22:25	0°♄			9535 Apr 01 00:38	0°♄	

morning set	9535 Apr 09 03:52	12°♄26'05		morning max el	9536 Feb 26 15:35	21°♊20'19	18°38'13
	9535 Apr 20 10:45	0°♄			9536 Mar 04 14:35	0°♄	
max. Earth dist.	9535 Apr 21 15:00	1°♄51'23	1.44835 AU	desc. node	9536 Mar 15 04:27	16°♄07'09	
				morning set	9536 Mar 18 18:53	21°♄46'35	
superior conj	9535 Apr 25 15:29	8°♄14'35	-2°11'53		9536 Mar 24 00:32	0°♄	
minimum elong	9535 Apr 25 13:27	8°♄06'29	2°12'03				
	9535 May 08 22:48	0°♄		superior conj	9536 Apr 03 23:58	17°♄10'54	-1°55'58
evening rise	9535 May 09 16:42	1°♄14'43		minimum elong	9536 Apr 03 15:28	16°♄37'38	1°55'27
asc. node	9535 May 22 01:43	21°♄26'06		max. Earth dist.	9536 Apr 03 08:40	16°♄11'03	1.45528 AU
evening max el	9535 May 28 10:29	29°♄36'48	18°15'53		9536 Apr 12 03:43	0°♄	
	9535 May 28 20:04	0°♄		evening rise	9536 Apr 19 12:34	11°♄42'18	
retrograde	9535 Jun 03 19:37	3°♄00'24		greatest brilliancy	9536 Apr 27 11:20	24°♄22'54	-0.9m
evening set	9535 Jun 06 18:44	2°♄13'07			9536 May 01 01:40	0°♄	
	9535 Jun 09 18:00	30°♄		asc. node	9536 May 07 22:48	9°♄48'22	
inferior conj	9535 Jun 12 17:38	26°♄50'20	2°59'17	evening max el	9536 May 10 22:02	13°♄11'26	18°44'56
minimum elong	9535 Jun 12 19:41	26°♄44'29	2°58'37	retrograde	9536 May 17 13:08	16°♄50'09	
min. Earth dist.	9535 Jun 15 05:36	24°♄01'15	0.63806 AU	evening set	9536 May 20 20:02	15°♄48'17	
morning rise	9535 Jun 18 19:18	20°♄35'37		inferior conj	9536 May 26 10:38	10°♄09'14	3°17'05
desc. node	9535 Jun 25 07:26	17°♄57'16		minimum elong	9536 May 26 11:28	10°♄06'38	3°16'44
direct	9535 Jun 25 12:19	17°♄57'08		min. Earth dist.	9536 May 28 07:31	7°♄50'38	0.65620 AU
morning max el	9535 Jul 09 08:33	25°♄59'33	27°39'50	morning rise	9536 Jun 01 02:11	3°♄50'05	
	9535 Jul 13 01:21	0°♄		direct	9536 Jun 07 13:46	1°♄04'34	
	9535 Aug 02 17:14	0°♄		desc. node	9536 Jun 11 04:28	1°♄48'16	
morning set	9535 Aug 13 05:47	19°♄28'13		morning max el	9536 Jun 20 19:03	8°♄54'45	26°51'03
max. Earth dist.	9535 Aug 18 04:08	29°♄34'01	1.32734 AU		9536 Jul 07 06:37	0°♄	
asc. node	9535 Aug 18 01:14	29°♄18'47			9536 Jul 25 03:29	0°♄	
	9535 Aug 18 09:04	0°♄		morning set	9536 Jul 26 13:44	2°♄42'05	
				max. Earth dist.	9536 Jul 30 19:27	10°♄59'58	1.34073 AU
superior conj	9535 Aug 21 04:09	5°♄57'29	0°30'52	asc. node	9536 Aug 03 22:08	19°♄24'50	
minimum elong	9535 Aug 21 02:43	5°♄49'49	0°30'26				
evening rise	9535 Aug 28 03:49	21°♄03'29		superior conj	9536 Aug 04 04:53	20°♄00'06	0°02'49
	9535 Sep 01 11:16	0°♄		minimum elong	9536 Aug 04 04:45	19°♄59'21	0°02'33
evening max el	9535 Sep 19 17:47	27°♄48'19	23°00'55	behind sun begin	9536 Aug 03 23:05	19°♄29'50	
desc. node	9535 Sep 21 05:53	29°♄11'32		behind sun end	9536 Aug 04 10:25	20°♄28'57	
	9535 Sep 22 05:00	0°♄			9536 Aug 08 22:35	0°♄	
retrograde	9535 Oct 03 01:12	4°♄26'42		evening rise	9536 Aug 11 13:58	5°♄34'39	
evening set	9535 Oct 06 22:30	3°♄53'41			9536 Aug 24 20:08	0°♄	
min. Earth dist.	9535 Oct 14 02:40	0°♄37'05	0.55239 AU	evening max el	9536 Aug 31 10:19	8°♄07'05	21°24'59
	9535 Oct 15 04:23	30°♄		desc. node	9536 Sep 07 03:04	12°♄56'16	
inferior conj	9535 Oct 15 14:09	29°♄45'53	-5°36'04	retrograde	9536 Sep 12 14:13	14°♄09'03	
minimum elong	9535 Oct 15 10:33	29°♄51'04	5°35'39	evening set	9536 Sep 15 03:41	13°♄54'01	
morning rise	9535 Oct 24 00:31	25°♄56'15		inferior conj	9536 Sep 24 07:25	9°♄57'20	-4°42'54
direct	9535 Oct 27 01:32	25°♄34'29		minimum elong	9536 Sep 23 22:01	10°♄10'30	4°40'39
	9535 Nov 06 06:55	0°♄		min. Earth dist.	9536 Sep 24 10:43	9°♄52'43	0.54653 AU
morning max el	9535 Nov 07 04:10	0°♄47'59	20°45'03	morning rise	9536 Oct 02 17:09	6°♄06'33	
asc. node	9535 Nov 14 01:17	9°♄08'46		direct	9536 Oct 06 10:36	5°♄36'29	
	9535 Nov 25 13:13	0°♄		morning max el	9536 Oct 19 00:15	11°♄35'06	22°21'46
morning set	9535 Nov 26 08:25	1°♄38'44		asc. node	9536 Oct 30 22:14	27°♄22'40	
					9536 Nov 01 10:28	0°♄	
superior conj	9535 Dec 03 18:47	17°♄03'43	1°32'41	morning set	9536 Nov 09 18:59	16°♄26'09	
minimum elong	9535 Dec 03 20:41	17°♄13'30	1°32'51		9536 Nov 16 03:30	0°♄	
max. Earth dist.	9535 Dec 08 19:18	27°♄05'51	1.35909 AU				
	9535 Dec 10 07:26	0°♄		superior conj	9536 Nov 16 20:34	1°♄30'37	1°39'37
evening rise	9535 Dec 12 18:01	4°♄35'38		minimum elong	9536 Nov 16 21:13	1°♄34'07	1°39'53
desc. node	9535 Dec 18 04:29	14°♄19'18		max. Earth dist.	9536 Nov 20 10:19	8°♄58'47	1.34165 AU
	9535 Dec 27 20:26	0°♄		evening rise	9536 Nov 24 22:32	18°♄00'06	
evening max el	9536 Jan 17 06:02	26°♄08'26	26°13'21		9536 Dec 01 09:36	0°♄	
	9536 Jan 21 17:40	0°♄		desc. node	9536 Dec 04 01:31	4°♄37'29	
retrograde	9536 Jan 30 00:22	3°♄22'47			9536 Dec 21 02:37	0°♄	
evening set	9536 Feb 05 05:45	0°♄51'29		evening max el	9536 Dec 29 19:28	9°♄46'47	27°03'10
	9536 Feb 06 05:04	30°♄		retrograde	9537 Jan 12 03:21	17°♄07'54	
min. Earth dist.	9536 Feb 09 10:19	26°♄28'01	0.66794 AU	evening set	9537 Jan 18 19:18	14°♄33'13	
asc. node	9536 Feb 10 00:22	25°♄45'07		min. Earth dist.	9537 Jan 22 18:19	10°♄43'37	0.65445 AU
inferior conj	9536 Feb 11 01:50	24°♄26'30	0°20'56	inferior conj	9537 Jan 24 21:29	8°♄18'39	-0°40'01
minimum elong	9536 Feb 11 01:18	24°♄28'12	0°20'55	minimum elong	9537 Jan 24 22:39	8°♄15'21	0°39'15
morning rise	9536 Feb 16 21:35	18°♄40'15		asc. node	9537 Jan 26 21:30	6°♄06'45	
direct	9536 Feb 20 00:21	17°♄45'12		morning rise	9537 Jan 31 03:18	2°♄44'22	

direct	9537 Feb 02 20:46	2° \approx 04'14		asc. node	9538 Jan 13 18:38	17° \approx 15'02	
morning max el	9537 Feb 09 06:39	5° \approx 27'43	18°04'58	morning rise	9538 Jan 15 01:58	16° \approx 36'39	
	9537 Feb 26 00:59	0° \approx		direct	9538 Jan 17 12:07	16° \approx 07'42	
morning set	9537 Feb 27 14:43	2° \approx 34'08		morning max el	9538 Jan 24 00:07	19° \approx 29'42	17°48'53
desc. node	9537 Mar 02 01:18	6° \approx 32'57			9538 Jan 31 19:53	0° \approx	
				morning set	9538 Feb 09 14:03	14° \approx 42'04	
superior conj	9537 Mar 14 07:36	26° \approx 11'51	-1°22'05	desc. node	9538 Feb 16 22:10	27° \approx 08'43	
minimum elong	9537 Mar 13 22:43	25° \approx 36'52	1°21'01		9538 Feb 18 15:19	0° \approx	
	9537 Mar 16 17:35	0° \approx					
max. Earth dist.	9537 Mar 17 04:32	0° \approx 42'54	1.45482 AU	superior conj	9538 Feb 22 08:04	6° \approx 04'39	-0°39'14
evening rise	9537 Mar 30 11:07	21° \approx 21'35		minimum elong	9538 Feb 22 03:47	5° \approx 47'13	0°38'28
	9537 Apr 05 01:27	0° \approx		max. Earth dist.	9538 Feb 27 23:48	15° \approx 10'22	1.44704 AU
greatest brilliancy	9537 Apr 12 10:32	11° \approx 13'29	-0.7m		9538 Mar 09 11:47	0° \approx	
evening max el	9537 Apr 24 05:27	26° \approx 50'44	19°30'45	evening rise	9538 Mar 09 22:53	0° \approx 42'40	
asc. node	9537 Apr 24 19:56	27° \approx 26'22			9538 Mar 29 18:21	0° \approx	
	9537 Apr 28 04:04	0° \approx		evening max el	9538 Apr 07 07:28	10° \approx 31'54	20°31'19
retrograde	9537 May 01 10:27	0° \approx 56'20		asc. node	9538 Apr 11 17:06	14° \approx 07'14	
	9537 May 04 13:01	30° \approx 8		retrograde	9538 Apr 15 09:08	15° \approx 13'59	
evening set	9537 May 05 01:43	29° \approx 39'09		evening set	9538 Apr 19 09:37	13° \approx 41'17	
inferior conj	9537 May 10 11:16	23° \approx 45'11	3°19'38	inferior conj	9538 Apr 24 16:51	7° \approx 34'07	3°09'46
minimum elong	9537 May 10 10:54	23° \approx 46'23	3°19'22	minimum elong	9538 Apr 24 15:31	7° \approx 38'43	3°09'24
min. Earth dist.	9537 May 11 17:06	22° \approx 06'52	0.67022 AU	min. Earth dist.	9538 Apr 25 08:34	6° \approx 40'13	0.67970 AU
morning rise	9537 May 15 19:44	17° \approx 26'00		morning rise	9538 Apr 29 21:12	1° \approx 17'21	
direct	9537 May 21 21:27	14° \approx 44'49			9538 May 01 13:36	30° \approx 17	
desc. node	9537 May 29 01:28	17° \approx 35'41		direct	9538 May 05 10:25	28° \approx 49'23	
morning max el	9537 Jun 03 05:06	22° \approx 07'20	25°38'42		9538 May 09 16:26	0° \approx	
	9537 Jun 10 02:19	0° \approx		desc. node	9538 May 15 22:27	4° \approx 50'19	
	9537 Jun 30 13:07	0° \approx		morning max el	9538 May 16 14:32	5° \approx 30'21	24°12'39
morning set	9537 Jul 09 07:19	15° \approx 12'39			9538 Jun 04 12:25	0° \approx	
max. Earth dist.	9537 Jul 13 00:19	22° \approx 06'29	1.35878 AU	morning set	9538 Jun 21 05:38	26° \approx 47'45	
	9537 Jul 17 02:06	0° \approx			9538 Jun 23 01:41	0° \approx	
				max. Earth dist.	9538 Jun 24 22:12	3° \approx 17'45	1.38026 AU
superior conj	9537 Jul 18 21:09	3° \approx 34'24	-0°28'25				
minimum elong	9537 Jul 18 22:53	3° \approx 43'04	0°28'23	superior conj	9538 Jul 02 01:37	16° \approx 32'20	-1°01'06
asc. node	9537 Jul 21 19:03	9° \approx 28'31		minimum elong	9538 Jul 02 05:33	16° \approx 51'12	1°00'46
evening rise	9537 Jul 26 20:37	19° \approx 52'14		asc. node	9538 Jul 08 16:01	29° \approx 26'09	
	9537 Jul 31 22:52	0° \approx			9538 Jul 08 22:52	0° \approx	
evening max el	9537 Aug 13 15:08	19° \approx 01'39	20°04'34	evening rise	9538 Jul 10 21:16	3° \approx 49'36	
retrograde	9537 Aug 24 03:40	24° \approx 14'24			9538 Jul 26 16:49	0° \approx	
desc. node	9537 Aug 25 00:15	24° \approx 12'26		evening max el	9538 Jul 27 09:10	0° \approx 41'57	19°04'38
evening set	9537 Aug 26 01:45	24° \approx 04'45		retrograde	9538 Aug 05 06:18	5° \approx 06'35	
inferior conj	9537 Sep 04 02:37	20° \approx 05'33	-3°03'00	evening set	9538 Aug 07 03:34	4° \approx 55'27	
minimum elong	9537 Sep 03 18:30	20° \approx 17'42	3°00'13	desc. node	9538 Aug 11 21:27	3° \approx 02'13	
min. Earth dist.	9537 Sep 05 20:26	19° \approx 03'04	0.55010 AU	inferior conj	9538 Aug 15 13:03	0° \approx 41'45	-1°07'41
morning rise	9537 Sep 12 09:59	15° \approx 53'28		minimum elong	9538 Aug 15 10:07	0° \approx 46'47	1°06'43
direct	9537 Sep 16 21:51	15° \approx 09'40			9538 Aug 16 13:16	30° \approx 8	
morning max el	9537 Sep 30 12:49	21° \approx 50'23	24°08'25	min. Earth dist.	9538 Aug 18 10:01	28° \approx 44'01	0.56253 AU
	9537 Oct 07 15:55	0° \approx		morning rise	9538 Aug 23 13:36	25° \approx 53'51	
asc. node	9537 Oct 17 19:09	16° \approx 14'00		direct	9538 Aug 28 20:54	24° \approx 48'11	
	9537 Oct 24 16:40	0° \approx			9538 Sep 09 18:12	0° \approx	
morning set	9537 Oct 25 06:45	1° \approx 14'47		morning max el	9538 Sep 12 01:37	2° \approx 03'44	25°48'55
					9538 Oct 01 18:12	0° \approx	
superior conj	9537 Nov 01 03:52	16° \approx 11'46	1°39'55	asc. node	9538 Oct 04 16:03	5° \approx 33'01	
minimum elong	9537 Nov 01 03:21	16° \approx 08'53	1°40'08	morning set	9538 Oct 09 18:00	15° \approx 59'24	
max. Earth dist.	9537 Nov 03 09:45	21° \approx 03'04	1.32836 AU		9538 Oct 16 03:35	0° \approx	
	9537 Nov 07 16:02	0° \approx					
evening rise	9537 Nov 08 14:34	1° \approx 54'42		superior conj	9538 Oct 16 14:24	0° \approx 59'47	1°34'13
desc. node	9537 Nov 20 22:35	24° \approx 36'34		minimum elong	9538 Oct 16 12:55	0° \approx 51'37	1°34'16
	9537 Nov 24 07:00	0° \approx		max. Earth dist.	9538 Oct 17 15:44	3° \approx 19'40	1.31964 AU
evening max el	9537 Dec 12 07:47	23° \approx 04'56	27°28'22	evening rise	9538 Oct 23 14:58	16° \approx 10'47	
	9537 Dec 23 00:29	0° \approx			9538 Oct 30 14:50	0° \approx	
retrograde	9537 Dec 25 23:42	0° \approx 24'50		desc. node	9538 Nov 07 19:42	14° \approx 07'57	
	9537 Dec 28 20:14	30° \approx 8			9538 Nov 19 05:52	0° \approx	
evening set	9538 Jan 01 23:09	27° \approx 53'35		evening max el	9538 Nov 24 16:31	5° \approx 48'41	27°22'58
min. Earth dist.	9538 Jan 05 17:43	24° \approx 35'46	0.63768 AU	retrograde	9538 Dec 08 12:44	13° \approx 03'32	
inferior conj	9538 Jan 08 08:11	21° \approx 55'54	-1°48'05	evening set	9538 Dec 15 14:07	10° \approx 34'42	
minimum elong	9538 Jan 08 11:37	21° \approx 47'06	1°46'21	min. Earth dist.	9538 Dec 19 06:48	7° \approx 52'59	0.61822 AU

inferior conj	9538 Dec 22 06:46	5°  09'34	-3°00'38	min. Earth dist.	9539 Dec 01 09:17	20°  22'58	0.59728 AU
minimum elong	9538 Dec 22 12:40	4°  56'08	2°58'09	inferior conj	9539 Dec 04 13:48	17°  50'56	-4°12'00
morning rise	9538 Dec 29 13:37	0°  08'42		minimum elong	9539 Dec 04 21:24	17°  35'48	4°09'30
	9538 Dec 30 02:01	30°  R 		morning rise	9539 Dec 12 09:12	13°  11'11	
direct	9538 Dec 31 18:56	29°  147'20		direct	9539 Dec 14 13:08	12°  153'58	
asc. node	9538 Dec 31 15:44	29°  147'24		asc. node	9539 Dec 18 12:46	13°  155'31	
	9539 Jan 02 11:20	0° 		morning max el	9539 Dec 22 04:59	16°  141'02	18°11'33
morning max el	9539 Jan 07 16:43	3°  17'14	17°50'39		9539 Dec 31 13:55	0° 	
morning set	9539 Jan 23 10:29	27°  349'24		morning set	9540 Jan 06 22:00	11°  338'32	
	9539 Jan 24 15:32	0° 					
superior conj	9539 Feb 03 09:24	17°  08'53	0°03'02	superior conj	9540 Jan 16 10:42	29°  320'51	0°38'55
minimum elong	9539 Feb 03 09:43	17°  10'11	0°03'14	minimum elong	9540 Jan 16 13:26	29°  333'09	0°38'49
behind sun begin	9539 Feb 03 01:16	16°  034'03			9540 Jan 16 19:24	0° 	
behind sun end	9539 Feb 03 18:09	17°  046'15		desc. node	9540 Jan 21 15:56	8°  033'22	
desc. node	9539 Feb 03 19:03	17°  050'03		max. Earth dist.	9540 Jan 24 01:37	12°  039'38	1.41387 AU
max. Earth dist.	9539 Feb 10 15:16	29°  013'42	1.43283 AU	evening rise	9540 Jan 28 23:38	20°  048'02	
	9539 Feb 11 02:40	0°  H 			9540 Feb 03 18:52	0°  H 	
evening rise	9539 Feb 17 14:55	10°  0H  21'40			9540 Feb 24 21:10	0°  Y 	
	9539 Mar 02 15:08	0°  Y 		evening max el	9540 Mar 02 20:03	7°  Y57'15	23°02'38
evening max el	9539 Mar 21 03:54	24°  Y13'27	21°43'31	retrograde	9540 Mar 13 03:00	14°  Y02'40	
asc. node	9539 Mar 29 14:17	29°  Y35'08		asc. node	9540 Mar 15 11:28	13°  Y35'32	
retrograde	9539 Mar 30 07:13	29°  Y37'37		evening set	9540 Mar 18 01:01	12°  Y00'08	
evening set	9539 Apr 03 17:55	27°  Y49'38		inferior conj	9540 Mar 23 10:02	5°  Y34'39	2°19'13
inferior conj	9539 Apr 09 01:06	21°  Y31'42	2°49'16	minimum elong	9540 Mar 23 07:48	5°  Y42'19	2°18'34
minimum elong	9539 Apr 08 23:08	21°  Y38'35	2°48'45	min. Earth dist.	9540 Mar 23 00:36	6°  Y07'15	0.68518 AU
min. Earth dist.	9539 Apr 09 03:50	21°  Y22'12	0.68462 AU		9540 Mar 27 23:32	30°  R 	
morning rise	9539 Apr 14 04:10	15°  Y18'56		morning rise	9540 Mar 28 14:30	29°  H  27'14	
direct	9539 Apr 19 03:44	13°  Y09'50		direct	9540 Apr 02 00:24	27°  H  39'44	
morning max el	9539 Apr 29 01:04	19°  Y00'30	22°42'51		9540 Apr 07 15:45	0°  Y 	
desc. node	9539 May 02 19:21	23°  Y07'53		morning max el	9540 Apr 10 15:54	2°  Y39'37	21°17'53
	9539 May 08 06:35	0°  B 		desc. node	9540 Apr 18 16:13	12°  Y11'03	
	9539 May 28 16:01	0°  II 			9540 May 01 04:50	0°  B 	
morning set	9539 Jun 02 03:29	7°  II14'27		morning set	9540 May 11 22:17	16°  B  27'10	
max. Earth dist.	9539 Jun 06 19:19	15°  II02'33	1.40292 AU	max. Earth dist.	9540 May 18 21:27	27°  B  38'47	1.42411 AU
					9540 May 20 07:45	0°  II 	
superior conj	9539 Jun 14 14:07	28°  II44'11	-1°32'24	superior conj	9540 May 26 05:58	9°  II59'10	-1°57'58
minimum elong	9539 Jun 14 19:55	29°  II10'32	1°32'00	minimum elong	9540 May 26 11:47	10°  II24'09	1°57'50
	9539 Jun 15 06:47	0°  B 		evening rise	9540 Jun 06 14:45	0°  B 	
evening rise	9539 Jun 24 12:41	17°  B  18'25			9540 Jun 06 13:02	0°  B 	
asc. node	9539 Jun 25 13:02	19°  B  13'45		asc. node	9540 Jun 11 10:04	8°  B  45'54	
	9539 Jul 01 09:38	0°  O 		evening max el	9540 Jun 23 00:22	25°  B  57'50	18°06'57
evening max el	9539 Jul 10 13:34	13°  O  04'06	18°25'45	retrograde	9540 Jun 29 18:36	29°  B  24'16	
retrograde	9539 Jul 18 03:40	16°  O  52'02		evening set	9540 Jul 02 05:46	28°  B  57'07	
evening set	9539 Jul 20 06:59	16°  O  34'46		inferior conj	9540 Jul 09 01:34	24°  B  03'36	1°50'24
inferior conj	9539 Jul 27 20:54	12°  O  01'29	0°34'12	minimum elong	9540 Jul 09 04:24	23°  B  57'00	1°49'12
minimum elong	9539 Jul 27 22:06	11°  O  59'04	0°33'29	min. Earth dist.	9540 Jul 12 08:06	21°  B  01'41	0.60380 AU
desc. node	9539 Jul 29 18:36	10°  O  29'11		desc. node	9540 Jul 15 15:44	18°  B  25'32	
min. Earth dist.	9539 Jul 31 05:26	9°  O  20'52	0.58151 AU	morning rise	9540 Jul 16 00:13	18°  B  11'49	
morning rise	9539 Aug 04 09:43	6°  O  37'11		direct	9540 Jul 22 13:22	16°  B  06'37	
direct	9539 Aug 10 10:44	5°  O  02'12		morning max el	9540 Aug 05 20:55	24°  B  02'59	27°49'14
morning max el	9539 Aug 24 19:54	12°  O  43'11	27°06'21		9540 Aug 11 05:57	0°  O 	
	9539 Sep 07 10:52	0°  np 			9540 Aug 30 17:53	0°  np 	
asc. node	9539 Sep 21 12:56	25°  np  12'12		morning set	9540 Sep 07 08:12	14°  np  56'20	
	9539 Sep 23 20:25	0°  B 		asc. node	9540 Sep 07 09:49	15°  np  04'45	
morning set	9539 Sep 24 03:06	0°  B  35'20		max. Earth dist.	9540 Sep 13 10:13	28°  np  01'51	1.31637 AU
					9540 Sep 14 07:37	0°  B 	
superior conj	9539 Oct 01 02:12	15°  B  48'49	1°22'59	superior conj	9540 Sep 14 13:24	0°  B  32'01	1°06'33
minimum elong	9539 Oct 01 00:08	15°  B  37'16	1°22'49	minimum elong	9540 Sep 14 11:10	0°  B  19'39	1°06'10
max. Earth dist.	9539 Oct 01 01:06	15°  B  42'44	1.31562 AU	evening rise	9540 Sep 21 06:58	15°  B  19'34	
evening rise	9539 Oct 07 21:11	0°  m  41'30			9540 Sep 28 12:33	0°  m 	
	9539 Oct 07 13:24	0°  m 		desc. node	9540 Oct 11 13:59	20°  m  58'22	
desc. node	9539 Oct 25 16:50	3°  100'35		evening max el	9540 Oct 18 14:02	28°  m  54'35	25°32'22
evening max el	9539 Nov 06 19:12	17°  147'12	26°43'40		9540 Oct 19 18:35	0°  1 	
retrograde	9539 Nov 20 17:27	24°  155'29		retrograde	9540 Nov 01 11:45	5°  155'22	
evening set	9539 Nov 27 12:10	22°  159'35		evening set	9540 Nov 07 12:26	4°  131'26	

min. Earth dist.	9540 Nov 12 02:22	1° ♁ 53'42	0.57682 AU	evening set	9541 Oct 18 12:02	15° ♁ 18'40	
	9540 Nov 14 20:17	30° ♁		min. Earth dist.	9541 Oct 24 12:42	12° ♁ 21'25	0.55966 AU
inferior conj	9540 Nov 15 01:56	29° ♁ 50'11	-5°11'15	inferior conj	9541 Oct 26 17:39	11° ♁ 01'04	-5°40'38
minimum elong	9540 Nov 15 08:32	29° ♁ 38'44	5°09'49	minimum elong	9541 Oct 26 18:43	10° ♁ 59'26	5°40'25
morning rise	9540 Nov 23 06:58	25° ♁ 32'51		morning rise	9541 Nov 04 03:24	7° ♁ 04'00	
direct	9540 Nov 25 14:35	25° ♁ 16'25		direct	9541 Nov 06 20:52	6° ♁ 44'58	
asc. node	9540 Dec 04 09:46	29° ♁ 31'41		morning max el	9541 Nov 17 01:25	11° ♁ 33'55	19°57'53
morning max el	9540 Dec 04 09:03	29° ♁ 29'59	18°53'27	asc. node	9541 Nov 21 06:43	16° ♁ 21'11	
	9540 Dec 04 21:11	0° ♁			9541 Nov 29 16:35	0° ♁	
morning set	9540 Dec 20 19:55	25° ♁ 55'47		morning set	9541 Dec 05 00:43	10° ♁ 30'50	
	9540 Dec 22 21:33	0° ♁					
superior conj	9540 Dec 29 07:20	12° ♁ 27'18	1°06'24	superior conj	9541 Dec 12 18:25	26° ♁ 14'20	1°25'23
minimum elong	9540 Dec 29 10:33	12° ♁ 42'35	1°06'19	minimum elong	9541 Dec 12 20:58	26° ♁ 27'04	1°25'28
max. Earth dist.	9541 Jan 05 08:17	25° ♁ 24'40	1.39235 AU		9541 Dec 14 16:00	0° ♁	
desc. node	9541 Jan 07 12:51	29° ♁ 15'27		max. Earth dist.	9541 Dec 18 14:48	7° ♁ 35'35	1.37071 AU
	9541 Jan 07 23:09	0° ♁		evening rise	9541 Dec 22 08:56	14° ♁ 30'15	
evening rise	9541 Jan 09 05:57	2° ♁ 12'13		desc. node	9541 Dec 25 09:49	19° ♁ 52'06	
	9541 Jan 27 00:51	0° ♁			9541 Dec 31 11:11	0° ♁	
evening max el	9541 Feb 13 09:59	21° ♁ 44'56	24°22'36		9542 Jan 21 19:20	0° ♁	
retrograde	9541 Feb 24 19:12	28° ♁ 24'53		evening max el	9542 Jan 26 23:16	5° ♁ 33'57	25°36'27
evening set	9541 Mar 02 05:24	26° ♁ 09'04		retrograde	9542 Feb 08 06:47	12° ♁ 38'24	
asc. node	9541 Mar 02 08:37	26° ♁ 02'08		evening set	9542 Feb 14 05:28	10° ♁ 11'39	
min. Earth dist.	9541 Mar 06 20:39	20° ♁ 51'00	0.68161 AU	asc. node	9542 Feb 17 05:45	7° ♁ 06'26	
inferior conj	9541 Mar 07 17:47	19° ♁ 40'03	1°40'08	min. Earth dist.	9542 Feb 18 13:40	5° ♁ 28'30	0.67407 AU
minimum elong	9541 Mar 07 15:47	19° ♁ 46'47	1°39'32	inferior conj	9542 Feb 19 22:28	3° ♁ 43'50	0°52'19
morning rise	9541 Mar 13 02:15	13° ♁ 39'31		minimum elong	9542 Feb 19 21:13	3° ♁ 47'50	0°52'01
direct	9541 Mar 16 23:11	12° ♁ 13'51			9542 Feb 23 01:34	30° ♁	
morning max el	9541 Mar 24 13:58	16° ♁ 30'53	20°04'06	morning rise	9542 Feb 25 13:26	27° ♁ 51'55	
	9541 Apr 04 06:56	0° ♁		direct	9542 Feb 28 22:29	26° ♁ 46'30	
desc. node	9541 Apr 05 13:03	1° ♁ 47'38			9542 Mar 07 06:11	0° ♁	
morning set	9541 Apr 20 22:16	24° ♁ 52'37		morning max el	9542 Mar 07 19:57	0° ♁ 32'54	19°04'58
	9541 Apr 24 05:38	0° ♁		greatest brilliancy	9542 Mar 21 05:55	18° ♁ 30'49	-0.7m
max. Earth dist.	9541 May 01 07:08	11° ♁ 07'47	1.44120 AU	desc. node	9542 Mar 23 09:53	21° ♁ 48'15	
					9542 Mar 28 17:45	0° ♁	
superior conj	9541 May 06 21:40	20° ♁ 10'57	-2°11'47	morning set	9542 Mar 31 01:17	3° ♁ 34'54	
minimum elong	9541 May 06 23:39	20° ♁ 19'03	2°12'00	max. Earth dist.	9542 Apr 13 23:04	25° ♁ 15'23	1.45220 AU
	9541 May 12 19:53	0° ♁					
evening rise	9541 May 19 22:47	12° ♁ 07'27		superior conj	9542 Apr 16 14:33	29° ♁ 25'26	-2°07'40
asc. node	9541 May 29 07:08	27° ♁ 57'06		minimum elong	9542 Apr 16 09:21	29° ♁ 04'56	2°07'35
	9541 May 30 14:07	0° ♁			9542 Apr 16 23:18	0° ♁	
evening max el	9541 Jun 06 13:53	9° ♁ 13'48	18°07'19	evening rise	9542 May 01 08:24	23° ♁ 08'42	
retrograde	9541 Jun 12 23:20	12° ♁ 34'07			9542 May 05 12:48	0° ♁	
evening set	9541 Jun 15 18:13	11° ♁ 54'33		asc. node	9542 May 16 04:13	16° ♁ 39'31	
inferior conj	9541 Jun 21 23:34	6° ♁ 41'50	2°40'33	evening max el	9542 May 21 02:50	22° ♁ 42'57	18°26'06
minimum elong	9541 Jun 22 02:11	6° ♁ 34'51	2°39'39	retrograde	9542 May 27 13:21	26° ♁ 11'23	
min. Earth dist.	9541 Jun 24 19:29	3° ♁ 42'27	0.62617 AU	evening set	9542 May 30 15:49	25° ♁ 17'50	
morning rise	9541 Jun 28 08:22	0° ♁ 33'09		inferior conj	9542 Jun 05 10:42	19° ♁ 47'42	3°08'54
	9541 Jun 29 03:24	30° ♁		minimum elong	9542 Jun 05 12:16	19° ♁ 43'04	3°08'24
desc. node	9541 Jul 02 12:48	28° ♁ 24'58		min. Earth dist.	9542 Jun 07 16:14	17° ♁ 10'20	0.64623 AU
direct	9541 Jul 05 02:04	28° ♁ 04'03		morning rise	9542 Jun 11 07:44	13° ♁ 30'30	
	9541 Jul 11 12:37	0° ♁		direct	9542 Jun 17 23:00	10° ♁ 47'56	
morning max el	9541 Jul 19 03:36	6° ♁ 06'21	27°53'46	desc. node	9542 Jun 19 09:50	10° ♁ 54'57	
	9541 Aug 06 06:04	0° ♁		morning max el	9542 Jul 01 13:37	18° ♁ 46'11	27°22'40
morning set	9541 Aug 22 07:13	28° ♁ 57'03			9542 Jul 11 01:13	0° ♁	
	9541 Aug 22 19:36	0° ♁			9542 Jul 30 05:18	0° ♁	
asc. node	9541 Aug 25 06:42	5° ♁ 06'01		morning set	9542 Aug 05 21:37	12° ♁ 30'33	
max. Earth dist.	9541 Aug 27 15:21	10° ♁ 07'06	1.32199 AU	max. Earth dist.	9542 Aug 10 12:51	21° ♁ 49'51	1.33247 AU
				asc. node	9542 Aug 12 03:37	25° ♁ 11'34	
superior conj	9541 Aug 29 22:11	15° ♁ 04'09	0°45'14				
minimum elong	9541 Aug 29 20:17	14° ♁ 53'52	0°44'45	superior conj	9542 Aug 14 02:31	29° ♁ 19'18	0°19'27
evening rise	9541 Sep 05 18:25	29° ♁ 59'35		minimum elong	9542 Aug 14 01:34	29° ♁ 14'13	0°19'03
	9541 Sep 05 18:30	0° ♁			9542 Aug 14 10:10	0° ♁	
	9541 Sep 22 06:34	0° ♁		evening rise	9542 Aug 21 05:38	14° ♁ 35'53	
desc. node	9541 Sep 28 11:10	7° ♁ 40'24			9542 Aug 28 22:29	0° ♁	
evening max el	9541 Sep 30 02:09	9° ♁ 19'05	23°58'35	evening max el	9542 Sep 11 14:14	19° ♁ 29'02	22°18'45
retrograde	9541 Oct 13 17:31	16° ♁ 08'29		desc. node	9542 Sep 15 08:21	22° ♁ 39'21	
				retrograde	9542 Sep 24 11:35	25° ♁ 54'24	

evening set	9542 Sep 27 18:14	25°♄30'39		evening rise	9543 Aug 05 14:35	29°♄01'58	
min. Earth dist.	9542 Oct 05 20:20	21°♄56'58	0.54882 AU		9543 Aug 06 01:47	0°♄	
inferior conj	9542 Oct 06 16:22	21°♄28'46	-5°20'28		9543 Aug 24 11:17	0°♄	
minimum elong	9542 Oct 06 09:37	21°♄38'16	5°19'24	evening max el	9543 Aug 24 11:23	0°♄00'14	20°48'29
morning rise	9542 Oct 15 02:42	17°♄41'31		desc. node	9543 Sep 02 05:34	5°♄23'36	
direct	9542 Oct 18 10:30	17°♄16'46		retrograde	9543 Sep 04 23:46	5°♄42'50	
morning max el	9542 Oct 30 04:33	22°♄48'36	21°24'15	evening set	9543 Sep 07 04:13	5°♄31'20	
	9542 Nov 05 08:37	0°♄		inferior conj	9543 Sep 16 08:39	1°♄35'03	-4°04'45
asc. node	9542 Nov 08 03:40	4°♄08'42		minimum elong	9543 Sep 15 22:57	1°♄48'54	4°01'55
morning set	9542 Nov 19 09:51	25°♄16'23		min. Earth dist.	9543 Sep 17 04:58	1°♄06'03	0.54679 AU
	9542 Nov 21 15:55	0°♄			9543 Sep 19 04:23	30°♄	
				morning rise	9543 Sep 24 17:42	27°♄37'32	
superior conj	9542 Nov 26 15:53	10°♄30'31	1°36'28	direct	9543 Sep 28 18:25	27°♄02'42	
minimum elong	9542 Nov 26 17:16	10°♄37'44	1°36'42		9543 Oct 07 16:18	0°♄	
max. Earth dist.	9542 Dec 01 01:44	19°♄30'06	1.35122 AU	morning max el	9543 Oct 11 20:46	3°♄20'14	23°06'48
evening rise	9542 Dec 05 05:18	27°♄33'52		asc. node	9543 Oct 26 00:37	22°♄40'00	
	9542 Dec 06 12:27	0°♄			9543 Oct 29 22:55	0°♄	
desc. node	9542 Dec 12 06:51	10°♄19'07		morning set	9543 Nov 03 21:10	10°♄05'19	
	9542 Dec 24 18:39	0°♄					
evening max el	9543 Jan 09 12:37	19°♄18'45	26°36'59	superior conj	9543 Nov 10 20:22	25°♄05'02	1°40'30
retrograde	9543 Jan 22 13:10	26°♄37'02		minimum elong	9543 Nov 10 20:30	25°♄05'46	1°40'46
evening set	9543 Jan 28 23:29	24°♄03'16			9543 Nov 13 03:46	0°♄	
min. Earth dist.	9543 Feb 02 01:31	19°♄54'41	0.66270 AU	max. Earth dist.	9543 Nov 13 20:12	1°♄26'20	1.33542 AU
inferior conj	9543 Feb 03 22:06	17°♄42'07	-0°03'57	evening rise	9543 Nov 18 15:08	11°♄12'32	
minimum elong	9543 Feb 03 22:12	17°♄41'49	0°03'40		9543 Nov 28 20:46	0°♄	
transit middle	9543 Feb 03 22:12	17°♄41'49	0°03'40	desc. node	9543 Nov 29 03:55	0°♄30'16	
transit begin	9543 Feb 03 19:21	17°♄50'17			9543 Dec 20 06:46	0°♄	
transit end	9543 Feb 04 01:02	17°♄33'21		evening max el	9543 Dec 23 01:33	2°♄49'23	27°17'08
asc. node	9543 Feb 04 02:52	17°♄27'54		retrograde	9544 Jan 05 13:37	10°♄11'37	
morning rise	9543 Feb 09 21:54	12°♄00'55		evening set	9544 Jan 12 09:16	7°♄37'08	
direct	9543 Feb 12 20:30	11°♄12'41		min. Earth dist.	9544 Jan 16 06:04	4°♄01'35	0.64771 AU
morning max el	9543 Feb 19 08:30	14°♄41'14	18°22'02	inferior conj	9544 Jan 18 14:16	1°♄28'44	-1°08'07
	9543 Mar 02 15:19	0°♄		minimum elong	9544 Jan 18 16:20	1°♄23'06	1°06'57
desc. node	9543 Mar 10 06:45	12°♄06'42			9544 Jan 19 23:25	30°♄	
morning set	9543 Mar 11 04:00	13°♄31'27		asc. node	9544 Jan 21 24:00	28°♄03'00	
	9543 Mar 21 13:28	0°♄		morning rise	9544 Jan 25 01:01	26°♄00'43	
				direct	9544 Jan 27 14:59	25°♄25'58	
superior conj	9543 Mar 26 20:12	8°♄17'00	-1°43'21	morning max el	9544 Feb 03 01:01	28°♄47'46	17°55'58
minimum elong	9543 Mar 26 10:40	7°♄39'41	1°42'31		9544 Feb 04 04:33	0°♄	
max. Earth dist.	9543 Mar 27 18:15	9°♄43'14	1.45602 AU	morning set	9544 Feb 20 12:07	24°♄55'05	
	9543 Apr 09 17:13	0°♄			9544 Feb 23 13:32	0°♄	
evening rise	9543 Apr 11 18:28	3°♄13'27		desc. node	9544 Feb 25 03:37	2°♄37'20	
greatest brilliancy	9543 Apr 22 00:47	19°♄17'00	-0.8m				
	9543 Apr 29 07:23	0°♄		superior conj	9544 Mar 05 09:21	17°♄36'11	-1°04'22
asc. node	9543 May 03 01:20	4°♄44'12		minimum elong	9544 Mar 05 02:08	17°♄07'27	1°03'21
evening max el	9543 May 04 12:44	6°♄19'24	19°02'25	max. Earth dist.	9544 Mar 09 13:39	24°♄13'26	1.45234 AU
retrograde	9543 May 11 08:57	10°♄08'36			9544 Mar 13 06:08	0°♄	
evening set	9543 May 14 19:16	9°♄00'17		evening rise	9544 Mar 21 10:40	12°♄40'18	
inferior conj	9543 May 20 07:19	3°♄14'25	3°19'51		9544 Apr 01 20:12	0°♄	
minimum elong	9543 May 20 07:38	3°♄13'26	3°19'33	greatest brilliancy	9544 Apr 05 00:30	4°♄42'22	-0.6m
min. Earth dist.	9543 May 21 21:40	1°♄12'13	0.66265 AU	evening max el	9544 Apr 16 17:52	19°♄59'41	19°54'53
	9543 May 22 21:09	30°♄		asc. node	9544 Apr 18 22:28	21°♄59'50	
morning rise	9543 May 25 19:28	26°♄54'38		retrograde	9544 Apr 24 07:09	24°♄20'17	
direct	9543 Jun 01 03:07	24°♄09'54		evening set	9544 Apr 28 02:07	22°♄56'42	
desc. node	9543 Jun 06 06:52	25°♄38'48		inferior conj	9544 May 03 10:23	16°♄56'54	3°16'52
	9543 Jun 12 02:41	0°♄		minimum elong	9544 May 03 09:34	16°♄59'38	3°16'34
morning max el	9543 Jun 14 00:21	1°♄50'44	26°22'39	min. Earth dist.	9544 May 04 10:08	15°♄36'57	0.67476 AU
	9543 Jul 05 04:11	0°♄		morning rise	9544 May 08 16:42	10°♄38'14	
morning set	9543 Jul 20 00:01	25°♄27'26		direct	9544 May 14 13:18	8°♄01'35	
	9543 Jul 22 09:25	0°♄		desc. node	9544 May 23 03:51	12°♄06'45	
max. Earth dist.	9543 Jul 23 23:46	3°♄06'17	1.34783 AU	morning max el	9544 May 26 10:04	15°♄08'50	25°03'08
					9544 Jun 07 14:19	0°♄	
superior conj	9543 Jul 29 00:00	13°♄10'27	-0°10'09		9544 Jun 27 01:19	0°♄	
minimum elong	9543 Jul 29 00:35	13°♄13'29	0°10'18	morning set	9544 Jul 01 10:06	7°♄36'42	
behind sun begin	9543 Jul 28 20:00	12°♄49'56		max. Earth dist.	9544 Jul 05 00:37	14°♄09'41	1.36752 AU
behind sun end	9543 Jul 29 05:11	13°♄37'04					
asc. node	9543 Jul 30 00:33	15°♄17'02		superior conj	9544 Jul 11 11:43	26°♄30'41	-0°42'15



























































































































minimum elong	9544 Jul 11 14:22	26° ♄ 43'44	0°42'04	minimum elong	9545 Jun 24 14:45	9° ♄ 33'00	1°14'22
	9544 Jul 13 05:59	0° ♄		asc. node	9545 Jul 02 18:29	25° ♄ 12'47	
asc. node	9544 Jul 15 21:31	5° ♄ 18'55		evening rise	9545 Jul 03 16:07	26° ♄ 57'54	
evening rise	9544 Jul 19 19:02	13° ♄ 11'58			9545 Jul 05 05:44	0° ♄	
	9544 Jul 28 15:53	0° ♄		evening max el	9545 Jul 19 21:02	23° ♄ 13'51	18°45'34
evening max el	9544 Aug 05 22:05	11° ♄ 14'46	19°36'34	retrograde	9545 Jul 28 03:20	27° ♄ 20'37	
retrograde	9544 Aug 15 17:24	16° ♄ 05'57		evening set	9545 Jul 30 02:57	27° ♄ 07'16	
evening set	9544 Aug 17 13:39	15° ♄ 56'25		desc. node	9545 Aug 05 23:55	23° ♄ 36'46	
desc. node	9544 Aug 19 02:45	15° ♄ 34'33		inferior conj	9545 Aug 07 04:12	22° ♄ 45'38	-0°21'41
inferior conj	9544 Aug 26 09:05	11° ♄ 52'34	-2°14'01	minimum elong	9545 Aug 07 03:19	22° ♄ 47'16	0°21'34
minimum elong	9544 Aug 26 03:02	12° ♄ 02'07	2°11'51	min. Earth dist.	9545 Aug 10 08:06	20° ♄ 27'32	0.57004 AU
min. Earth dist.	9544 Aug 28 16:29	10° ♄ 25'29	0.55435 AU	morning rise	9545 Aug 15 00:17	17° ♄ 41'57	
morning rise	9544 Sep 03 14:08	7° ♄ 25'58		direct	9545 Aug 20 15:53	16° ♄ 24'15	
direct	9544 Sep 08 10:18	6° ♄ 33'41		morning max el	9545 Sep 03 22:57	23° ♄ 51'19	26°25'31
morning max el	9544 Sep 22 08:34	13° ♄ 31'09	24°52'53		9545 Sep 09 12:57	0° ♄	
	9544 Oct 05 05:01	0° ♄			9545 Sep 28 03:53	0° ♄	
asc. node	9544 Oct 11 21:34	11° ♄ 44'17		asc. node	9545 Sep 28 18:28	1° ♄ 12'29	
morning set	9544 Oct 18 08:54	24° ♄ 52'46		morning set	9545 Oct 02 19:26	9° ♄ 33'51	
	9544 Oct 20 17:48	0° ♄					
superior conj	9544 Oct 25 05:19	9° ♄ 50'10	1°38'12	superior conj	9545 Oct 09 16:35	24° ♄ 38'59	1°30'06
minimum elong	9544 Oct 25 04:21	9° ♄ 44'52	1°38'22	minimum elong	9545 Oct 09 14:48	24° ♄ 29'07	1°30'04
max. Earth dist.	9544 Oct 26 22:30	13° ♄ 35'13	1.32408 AU	max. Earth dist.	9545 Oct 10 06:22	25° ♄ 55'31	1.31736 AU
evening rise	9544 Nov 01 11:05	25° ♄ 17'30			9545 Oct 12 02:37	0° ♄	
	9544 Nov 03 19:07	0° ♄		evening rise	9545 Oct 16 14:14	9° ♄ 40'39	
desc. node	9544 Nov 15 01:01	20° ♄ 18'43			9545 Oct 27 02:28	0° ♄	
	9544 Nov 21 08:34	0° ♄		desc. node	9545 Nov 01 22:08	9° ♄ 35'16	
evening max el	9544 Dec 04 12:42	15° ♄ 54'49	27°30'04	evening max el	9545 Nov 16 19:28	28° ♄ 21'47	27°10'34
retrograde	9544 Dec 18 07:13	23° ♄ 13'15			9545 Nov 18 15:15	0° ♄	
evening set	9544 Dec 25 08:04	20° ♄ 46'15		retrograde	9545 Nov 30 16:42	5° ♄ 33'07	
min. Earth dist.	9544 Dec 29 01:25	17° ♄ 40'12	0.62967 AU	evening set	9545 Dec 07 16:25	3° ♄ 23'09	
inferior conj	9544 Dec 31 20:13	14° ♄ 57'11	-2°18'34	min. Earth dist.	9545 Dec 11 10:07	0° ♄ 39'19	0.60939 AU
minimum elong	9545 Jan 01 00:42	14° ♄ 46'11	2°16'28		9545 Dec 12 04:50	30° ♄ 21'	
morning rise	9545 Jan 07 19:30	9° ♄ 45'11		inferior conj	9545 Dec 14 12:40	27° ♄ 59'05	-3°31'34
asc. node	9545 Jan 07 21:07	9° ♄ 43'45		minimum elong	9545 Dec 14 19:29	27° ♄ 44'24	3°28'56
direct	9545 Jan 10 03:07	9° ♄ 19'59		morning rise	9545 Dec 22 01:00	23° ♄ 06'31	
morning max el	9545 Jan 16 18:29	12° ♄ 44'36	17°47'17	direct	9545 Dec 24 05:17	22° ♄ 47'15	
	9545 Jan 28 13:37	0° ♄		asc. node	9545 Dec 25 18:11	22° ♄ 57'12	
morning set	9545 Feb 01 21:14	7° ♄ 30'44		morning max el	9545 Dec 31 09:38	26° ♄ 23'23	17°57'03
desc. node	9545 Feb 11 00:28	23° ♄ 15'46			9546 Jan 03 12:31	0° ♄	
				morning set	9546 Jan 16 00:49	20° ♄ 58'51	
superior conj	9545 Feb 13 19:59	27° ♄ 58'22	-0°20'48		9546 Jan 20 23:16	0° ♄	
minimum elong	9545 Feb 13 17:51	27° ♄ 49'31	0°20'16	superior conj	9546 Jan 26 07:59	9° ♄ 33'13	0°19'12
	9545 Feb 15 01:23	0° ♄		minimum elong	9546 Jan 26 09:36	9° ♄ 40'14	0°19'14
max. Earth dist.	9545 Feb 20 07:08	8° ♄ 31'02	1.44171 AU	desc. node	9546 Jan 28 21:20	13° ♄ 58'45	
evening rise	9545 Feb 28 22:18	22° ♄ 04'24		max. Earth dist.	9546 Feb 02 21:01	22° ♄ 22'21	1.42530 AU
	9545 Mar 06 02:59	0° ♄			9546 Feb 07 13:44	0° ♄	
	9545 Mar 27 09:48	0° ♄		evening rise	9546 Feb 08 20:29	2° ♄ 02'21	
evening max el	9545 Mar 30 17:30	3° ♄ 41'22	21°00'59		9546 Feb 27 13:57	0° ♄	
asc. node	9545 Apr 05 19:38	8° ♄ 11'40		evening max el	9546 Mar 13 12:03	17° ♄ 24'42	22°16'40
retrograde	9545 Apr 08 05:41	8° ♄ 40'50		retrograde	9546 Mar 23 02:49	23° ♄ 06'10	
evening set	9545 Apr 12 10:21	7° ♄ 01'46		asc. node	9546 Mar 23 16:48	23° ♄ 04'28	
inferior conj	9545 Apr 17 17:20	0° ♄ 49'57	3°02'18	evening set	9546 Mar 27 18:19	21° ♄ 11'48	
minimum elong	9545 Apr 17 15:41	0° ♄ 55'41	3°01'52	inferior conj	9546 Apr 02 02:06	14° ♄ 50'26	2°37'37
min. Earth dist.	9545 Apr 18 03:29	0° ♄ 14'49	0.68235 AU	minimum elong	9546 Apr 01 23:58	14° ♄ 57'51	2°37'03
	9545 Apr 18 07:46	30° ♄ 00'		min. Earth dist.	9546 Apr 01 23:34	14° ♄ 59'16	0.68546 AU
morning rise	9545 Apr 22 20:47	24° ♄ 34'42		morning rise	9546 Apr 07 05:28	8° ♄ 40'01	
direct	9545 Apr 28 04:23	22° ♄ 13'57		direct	9546 Apr 11 23:16	6° ♄ 39'53	
morning max el	9545 May 08 19:21	28° ♄ 34'02	23°34'16	morning max el	9546 Apr 21 07:15	12° ♄ 07'42	22°05'38
desc. node	9545 May 10 00:46	29° ♄ 50'31		desc. node	9546 Apr 26 21:38	18° ♄ 29'24	
	9545 May 10 04:19	0° ♄			9546 May 05 11:37	0° ♄	
	9545 Jun 01 07:40	0° ♄		morning set	9546 May 24 08:38	28° ♄ 37'59	
morning set	9545 Jun 12 22:30	18° ♄ 43'45			9546 May 25 04:56	0° ♄	
max. Earth dist.	9545 Jun 16 20:59	25° ♄ 30'39	1.38993 AU	max. Earth dist.	9546 May 29 20:11	7° ♄ 38'18	1.41239 AU
	9545 Jun 19 09:46	0° ♄					
superior conj	9545 Jun 24 09:54	9° ♄ 10'22	-1°14'46	superior conj	9546 Jun 06 14:09	20° ♄ 59'19	-1°44'16
				minimum elong	9546 Jun 06 20:18	21° ♄ 26'37	1°43'57

	9546 Jun 11 14:09	0°☿		superior conj	9547 May 18 19:56	1°♄47'28	-2°05'39
evening rise	9546 Jun 17 02:21	10°☿11'17		minimum elong	9547 May 19 00:41	2°♄07'24	2°05'42
asc. node	9546 Jun 19 15:30	14°☿54'30		evening rise	9547 May 30 21:22	22°♄41'13	
	9546 Jun 28 11:47	0°♌			9547 Jun 04 00:46	0°☿	
evening max el	9546 Jul 03 04:35	5°♌50'19	18°15'16	asc. node	9547 Jun 06 12:32	4°☿18'49	
retrograde	9546 Jul 10 08:42	9°♌27'12		evening max el	9547 Jun 16 16:53	18°☿54'29	18°04'47
evening set	9546 Jul 12 15:23	9°♌06'01		retrograde	9547 Jun 23 06:17	22°☿16'57	
inferior conj	9546 Jul 19 21:11	4°♌23'37	1°09'54	evening set	9547 Jun 25 20:38	21°☿44'52	
minimum elong	9546 Jul 19 23:21	4°♌18'56	1°08'51	inferior conj	9547 Jul 02 09:47	16°☿42'47	2°14'38
min. Earth dist.	9546 Jul 23 06:03	1°♌31'21	0.59085 AU	minimum elong	9547 Jul 02 12:41	16°☿35'37	2°13'31
desc. node	9546 Jul 23 21:03	1°♌01'23		min. Earth dist.	9547 Jul 05 12:27	13°☿39'10	0.61341 AU
	9546 Jul 25 05:55	30°♋☿		morning rise	9547 Jul 09 02:19	10°☿42'17	
morning rise	9546 Jul 27 04:06	28°☿46'27		desc. node	9547 Jul 10 18:07	9°☿42'45	
direct	9546 Aug 02 11:05	26°☿58'36		direct	9547 Jul 15 18:05	8°☿26'00	
	9546 Aug 11 01:52	0°♌		morning max el	9547 Jul 30 00:02	16°☿26'33	27°55'56
morning max el	9546 Aug 16 20:04	4°♌46'24	27°29'20		9547 Aug 10 03:52	0°♌	
	9546 Sep 04 11:01	0°♍			9547 Aug 28 02:19	0°♍	
asc. node	9546 Sep 15 15:20	20°♍57'54		morning set	9547 Sep 01 05:51	8°♍17'38	
morning set	9546 Sep 17 03:01	24°♍03'46		asc. node	9547 Sep 02 12:12	10°♍55'12	
	9546 Sep 19 21:37	0°♎		max. Earth dist.	9547 Sep 07 00:16	20°♍34'21	1.31813 AU
max. Earth dist.	9546 Sep 23 16:14	8°♎18'44	1.31536 AU				
				superior conj	9547 Sep 08 14:42	24°♍05'17	0°58'06
superior conj	9546 Sep 24 04:18	9°♎25'45	1°16'38	minimum elong	9547 Sep 08 12:33	23°♍53'25	0°57'39
minimum elong	9546 Sep 24 02:06	9°♎13'30	1°16'21		9547 Sep 11 06:58	0°♎	
evening rise	9546 Sep 30 22:12	24°♎14'59		evening rise	9547 Sep 15 08:57	8°♎54'53	
	9546 Oct 03 16:00	0°♏			9547 Sep 26 03:10	0°♏	
desc. node	9546 Oct 19 19:18	28°♏06'44		desc. node	9547 Oct 06 16:28	15°♏35'43	
	9546 Oct 21 04:03	0°♐		evening max el	9547 Oct 11 10:12	20°♏44'49	24°54'19
evening max el	9546 Oct 29 18:55	9°♐58'24	26°16'55	retrograde	9547 Oct 25 06:19	27°♏42'30	
retrograde	9546 Nov 12 16:53	17°♐03'13		evening set	9547 Oct 30 19:36	26°♏33'03	
evening set	9546 Nov 19 05:45	15°♐19'54		min. Earth dist.	9547 Nov 04 21:39	23°♏49'23	0.56889 AU
min. Earth dist.	9546 Nov 23 08:03	12°♐45'22	0.58835 AU	inferior conj	9547 Nov 07 15:23	22°♏02'22	-5°28'37
inferior conj	9546 Nov 26 11:59	10°♐23'30	-4°39'33	minimum elong	9547 Nov 07 20:14	21°♏54'27	5°27'49
minimum elong	9546 Nov 26 19:38	10°♐09'10	4°37'22	morning rise	9547 Nov 15 23:08	17°♏54'43	
morning rise	9546 Dec 04 11:59	5°♐53'23		direct	9547 Nov 18 10:07	17°♏37'41	
direct	9546 Dec 06 16:59	5°♐36'47		morning max el	9547 Nov 27 18:25	22°♏05'02	19°18'10
asc. node	9546 Dec 12 15:12	7°♐44'17		asc. node	9547 Nov 29 12:10	23°♏53'42	
morning max el	9546 Dec 14 18:51	9°♐33'35	18°26'47		9547 Dec 04 02:10	0°♑	
	9546 Dec 28 01:57	0°♑		morning set	9547 Dec 14 18:30	19°♑27'36	
morning set	9546 Dec 30 17:17	5°♑01'48			9547 Dec 20 01:06	0°♑	
				superior conj	9547 Dec 22 21:35	5°♑36'20	1°15'27
superior conj	9547 Jan 08 18:11	22°♑10'40	0°51'38	minimum elong	9547 Dec 23 00:37	5°♑51'03	1°15'26
minimum elong	9547 Jan 08 21:19	22°♑25'04	0°51'30	max. Earth dist.	9547 Dec 29 11:43	18°♑00'35	1.38297 AU
	9547 Jan 13 01:51	0°♒		evening rise	9548 Jan 02 05:39	24°♑41'01	
desc. node	9547 Jan 15 18:15	4°♒42'15		desc. node	9548 Jan 02 15:13	25°♑22'39	
max. Earth dist.	9547 Jan 16 06:00	5°♒33'02	1.40489 AU		9548 Jan 05 08:04	0°♒	
evening rise	9547 Jan 20 14:14	12°♒53'09			9548 Jan 25 02:53	0°♒	
	9547 Jan 31 10:12	0°♓		evening max el	9548 Feb 06 16:15	14°♓58'05	24°55'04
	9547 Feb 22 23:37	0°♑		retrograde	9548 Feb 18 11:45	21°♓50'34	
evening max el	9547 Feb 24 02:57	1°♑10'04	23°36'48	evening set	9548 Feb 24 03:15	19°♓29'33	
retrograde	9547 Mar 06 21:13	7°♑31'07		asc. node	9548 Feb 25 11:06	18°♓14'22	
asc. node	9547 Mar 10 13:58	6°♑25'26		min. Earth dist.	9548 Feb 28 15:17	14°♓26'20	0.67888 AU
evening set	9547 Mar 12 00:28	5°♑22'26		inferior conj	9548 Feb 29 17:26	13°♓00'06	1°20'54
	9547 Mar 16 15:42	30°♒♓		minimum elong	9548 Feb 29 15:41	13°♓05'54	1°20'24
inferior conj	9547 Mar 17 10:44	28°♒54'51	2°03'41	morning rise	9548 Mar 06 04:23	7°♓03'01	
minimum elong	9547 Mar 17 08:33	29°♒02'21	2°03'03	direct	9548 Mar 09 19:59	5°♓46'28	
min. Earth dist.	9547 Mar 16 20:13	29°♒44'35	0.68423 AU	morning max el	9548 Mar 17 02:39	9°♓49'14	19°36'58
morning rise	9547 Mar 22 16:38	22°♓50'25		greatest brilliancy	9548 Mar 29 19:30	26°♓22'43	-0.7m
direct	9547 Mar 26 20:52	21°♓12'30		desc. node	9548 Mar 30 15:20	27°♓35'50	
morning max el	9547 Apr 04 01:04	25°♓52'35	20°44'52		9548 Apr 01 06:08	0°♑	
	9547 Apr 07 18:32	0°♑		morning set	9548 Apr 11 15:45	15°♑49'03	
desc. node	9547 Apr 13 18:28	7°♑48'02			9548 Apr 20 18:44	0°♒	
	9547 Apr 28 21:59	0°♒		max. Earth dist.	9548 Apr 23 13:59	4°♒25'02	1.44668 AU
morning set	9547 May 03 17:36	7°♒25'21					
max. Earth dist.	9547 May 12 01:48	20°♒39'16	1.43204 AU	superior conj	9548 Apr 28 01:15	11°♒32'38	-2°12'31
	9547 May 17 18:16	0°♓		minimum elong	9548 Apr 28 00:20	11°♒29'00	2°12'42

	9548 May 09 07:10	0°♊		superior conj	9549 Apr 07 11:32	20°♊33'07	-1°59'41
evening rise	9548 May 11 20:18	4°♊16'39		minimum elong	9549 Apr 07 03:43	20°♊02'30	1°59'17
asc. node	9548 May 23 09:36	23°♊18'50			9549 Apr 13 11:37	0°♋	
	9548 May 28 05:00	0°♋		evening rise	9549 Apr 22 19:48	14°♋53'18	
evening max el	9548 May 30 06:29	2°♋16'52	18°13'08	greatest brilliancy	9549 Apr 29 18:02	26°♋00'48	-0.9m
retrograde	9548 Jun 05 15:26	5°♋39'10			9549 May 02 06:21	0°♌	
evening set	9548 Jun 08 13:25	4°♋53'58		asc. node	9549 May 10 06:43	11°♌47'07	
	9548 Jun 14 04:28	30°♋♌		evening max el	9549 May 13 18:32	15°♌50'49	18°39'30
inferior conj	9548 Jun 14 13:53	29°♌33'52	2°54'58	retrograde	9549 May 20 08:08	19°♌26'19	
minimum elong	9548 Jun 14 16:06	29°♌27'39	2°54'15	evening set	9549 May 23 13:54	18°♌26'35	
min. Earth dist.	9548 Jun 17 04:02	26°♌41'27	0.63505 AU	inferior conj	9549 May 29 05:30	12°♌49'50	3°15'25
morning rise	9548 Jun 20 17:19	23°♌20'28		minimum elong	9549 May 29 06:32	12°♌46'41	3°15'01
desc. node	9548 Jun 26 15:12	20°♌46'08		min. Earth dist.	9549 May 31 04:39	10°♌26'03	0.65378 AU
direct	9548 Jun 27 10:45	20°♌43'57		morning rise	9549 Jun 03 22:24	6°♌31'09	
morning max el	9548 Jul 11 08:32	28°♌46'58	27°44'32	direct	9549 Jun 10 11:09	3°♌46'00	
	9548 Jul 12 12:51	0°♍		desc. node	9549 Jun 13 12:13	4°♌17'02	
	9548 Aug 03 00:43	0°♎		morning max el	9549 Jun 23 18:55	11°♌38'26	27°00'01
morning set	9548 Aug 15 01:33	22°♎07'50			9549 Jul 08 09:37	0°♏	
	9548 Aug 18 21:52	0°♐			9549 Jul 26 14:01	0°♎	
asc. node	9548 Aug 19 09:06	0°♐58'52		morning set	9549 Jul 29 11:18	5°♎26'57	
max. Earth dist.	9548 Aug 20 02:22	2°♐29'55	1.32578 AU	max. Earth dist.	9549 Aug 02 19:19	13°♎59'53	1.33845 AU
				asc. node	9549 Aug 06 06:02	21°♎05'01	
superior conj	9548 Aug 22 21:51	8°♐30'58	0°34'49				
minimum elong	9548 Aug 22 20:17	8°♐22'31	0°34'21	superior conj	9549 Aug 06 23:37	22°♎37'02	0°07'19
evening rise	9548 Aug 29 20:29	23°♐33'41		minimum elong	9549 Aug 06 23:15	22°♎35'05	0°07'01
	9548 Sep 01 22:11	0°♑		behind sun begin	9549 Aug 06 18:07	22°♎08'12	
	9548 Sep 20 21:45	0°♒		behind sun end	9549 Aug 07 04:23	23°♎02'00	
evening max el	9548 Sep 21 21:09	0°♒58'34	23°15'53		9549 Aug 10 11:19	0°♓	
desc. node	9548 Sep 22 13:40	1°♒37'39		evening rise	9549 Aug 14 06:59	8°♓06'22	
retrograde	9548 Oct 05 07:09	7°♒40'15			9549 Aug 25 20:20	0°♑	
evening set	9548 Oct 09 09:57	7°♒03'19		evening max el	9549 Sep 03 12:19	11°♑14'03	21°38'28
min. Earth dist.	9548 Oct 16 06:43	3°♒52'08	0.55406 AU	desc. node	9549 Sep 09 10:51	15°♑42'54	
inferior conj	9548 Oct 17 23:03	2°♒53'15	-5°39'04	retrograde	9549 Sep 15 21:04	17°♑22'25	
minimum elong	9548 Oct 17 20:42	2°♒56'42	5°38'47	evening set	9549 Sep 18 14:35	17°♑05'32	
	9548 Oct 23 10:54	30°♒♑		inferior conj	9549 Sep 27 17:20	13°♑08'01	-4°54'31
morning rise	9548 Oct 26 09:21	29°♑01'58		minimum elong	9549 Sep 27 08:23	13°♑20'32	4°52'32
direct	9548 Oct 29 08:16	28°♑41'01		min. Earth dist.	9549 Sep 27 14:31	13°♑11'57	0.54684 AU
	9548 Nov 03 21:08	0°♒		morning rise	9549 Oct 06 03:15	9°♑18'53	
morning max el	9548 Nov 09 05:13	3°♒48'09	20°32'09	direct	9549 Oct 09 18:15	8°♑50'15	
asc. node	9548 Nov 15 09:08	11°♒09'28		morning max el	9549 Oct 22 02:57	14°♑41'52	22°06'26
	9548 Nov 26 00:51	0°♓		asc. node	9549 Nov 02 06:06	29°♑16'59	
morning set	9548 Nov 28 01:24	4°♓07'23			9549 Nov 02 16:21	0°♒	
				morning set	9549 Nov 12 11:40	18°♒54'38	
superior conj	9548 Dec 05 13:30	19°♓36'43	1°30'59		9549 Nov 17 16:47	0°♓	
minimum elong	9548 Dec 05 15:36	19°♓47'21	1°31'08				
	9548 Dec 10 19:10	0°♔		superior conj	9549 Nov 19 14:15	4°♓01'09	1°38'59
max. Earth dist.	9548 Dec 10 19:08	29°♓59'48	1.36202 AU	minimum elong	9549 Nov 19 15:06	4°♓05'38	1°39'16
evening rise	9548 Dec 14 16:29	7°♔19'35		max. Earth dist.	9549 Nov 23 09:10	11°♓53'23	1.34401 AU
desc. node	9548 Dec 19 12:15	15°♔55'49		evening rise	9549 Nov 27 19:01	20°♓39'04	
	9548 Dec 28 02:24	0°♕			9549 Dec 02 19:20	0°♔	
evening max el	9549 Jan 19 05:36	28°♕46'27	26°04'22	desc. node	9549 Dec 06 09:18	6°♔16'44	
	9549 Jan 20 12:48	0°♖			9549 Dec 22 00:46	0°♕	
retrograde	9549 Jan 31 21:23	5°♖58'37		evening max el	9550 Jan 01 19:09	12°♕27'12	26°57'10
evening set	9549 Feb 07 01:01	3°♖28'29		retrograde	9550 Jan 15 01:13	19°♕47'36	
	9549 Feb 10 10:34	30°♖♗		evening set	9550 Jan 21 15:48	17°♕13'01	
asc. node	9549 Feb 11 08:14	28°♕54'38		min. Earth dist.	9550 Jan 25 15:36	13°♕18'34	0.65670 AU
min. Earth dist.	9549 Feb 11 06:32	28°♕59'50	0.66961 AU	inferior conj	9550 Jan 27 17:04	10°♕56'39	-0°30'14
inferior conj	9549 Feb 12 20:17	27°♕02'34	0°29'30	minimum elong	9550 Jan 27 17:55	10°♕54'10	0°29'36
minimum elong	9549 Feb 12 19:31	27°♕04'56	0°29'24	asc. node	9550 Jan 29 05:23	9°♕14'22	
morning rise	9549 Feb 18 14:41	21°♕14'41		morning rise	9550 Feb 02 21:14	5°♕20'28	
direct	9549 Feb 21 19:03	20°♕17'01		direct	9550 Feb 05 16:01	4°♕38'18	
morning max el	9549 Feb 28 11:39	23°♕54'44	18°44'38	morning max el	9550 Feb 12 02:09	8°♕02'39	18°08'52
	9549 Mar 05 14:38	0°♗			9550 Feb 27 08:25	0°♖	
desc. node	9549 Mar 17 12:12	17°♗45'05		morning set	9550 Mar 02 18:38	5°♗33'30	
morning set	9549 Mar 22 03:14	24°♗58'52		desc. node	9550 Mar 04 09:03	8°♗09'13	
	9549 Mar 25 08:12	0°♘					
max. Earth dist.	9549 Apr 06 07:21	18°♘42'40	1.45473 AU	superior conj	9550 Mar 17 18:01	29°♗30'00	-1°28'03

minimum elong	9550 Mar 17 08:46	28° H 53'36	1°27'01		9551 Feb 20 00:16	0° H	
	9550 Mar 18 01:39	0° Y					
max. Earth dist.	9550 Mar 20 03:22	3° Y 15'04	1.45538 AU	superior conj	9551 Feb 25 15:09	9° H 12'56	-0°45'53
evening rise	9550 Apr 02 21:06	24° Y 38'43		minimum elong	9551 Feb 25 10:05	8° H 52'25	0°45'01
	9550 Apr 06 07:58	0° B		max. Earth dist.	9551 Mar 02 22:44	17° H 43'31	1.44865 AU
greatest brilliancy	9550 Apr 15 04:28	13° B 34'58	-0.7m		9551 Mar 10 19:11	0° Y	
evening max el	9550 Apr 27 02:41	29° B 29'46	19°22'52	evening rise	9551 Mar 13 09:28	3° Y 59'39	
asc. node	9550 Apr 27 03:51	29° B 32'44			9551 Mar 30 19:57	0° B	
	9550 Apr 27 14:56	0° II		evening max el	9551 Apr 10 05:26	13° B 10'14	20°21'26
retrograde	9550 May 04 05:06	3° II 30'40		asc. node	9551 Apr 14 00:59	16° B 22'56	
evening set	9550 May 07 19:06	2° II 15'43		retrograde	9551 Apr 18 03:46	17° B 46'42	
	9550 May 10 06:54	30° R B		evening set	9551 Apr 22 02:46	16° B 16'19	
inferior conj	9550 May 13 05:12	26° B 23'44	3°20'05	inferior conj	9551 Apr 27 10:11	10° B 10'54	3°11'58
minimum elong	9550 May 13 05:00	26° B 24'22	3°19'48	minimum elong	9551 Apr 27 08:58	10° B 15'02	3°11'38
min. Earth dist.	9550 May 14 13:10	24° B 39'11	0.66843 AU	min. Earth dist.	9551 Apr 28 03:55	9° B 10'16	0.67856 AU
morning rise	9550 May 18 14:32	20° B 04'20		morning rise	9551 May 02 14:57	3° B 53'32	
direct	9550 May 24 17:53	17° B 22'04		direct	9551 May 08 06:04	1° B 23'11	
desc. node	9550 May 31 09:13	19° B 48'52		desc. node	9551 May 18 06:10	6° B 51'48	
morning max el	9550 Jun 06 05:13	24° B 49'33	25°50'35	morning max el	9551 May 19 14:44	8° B 11'29	24°25'56
	9550 Jun 10 21:25	0° II			9551 Jun 05 16:44	0° II	
	9550 Jul 01 20:43	0° B		morning set	9551 Jun 24 08:52	29° II 49'22	
morning set	9550 Jul 12 07:19	18° B 04'51			9551 Jun 24 11:19	0° B	
max. Earth dist.	9550 Jul 16 01:49	25° B 09'00	1.35583 AU	max. Earth dist.	9551 Jun 28 00:18	6° B 17'29	1.37688 AU
	9550 Jul 18 13:51	0° Q					
				superior conj	9551 Jul 04 23:49	19° B 20'07	-0°56'10
superior conj	9550 Jul 21 17:22	6° Q 16'10	-0°23'33	minimum elong	9551 Jul 05 03:26	19° B 37'30	0°55'51
minimum elong	9550 Jul 21 18:47	6° Q 23'18	0°23'33		9551 Jul 10 10:12	0° Q	
asc. node	9550 Jul 24 03:00	11° Q 09'35		asc. node	9551 Jul 10 23:58	1° Q 08'30	
evening rise	9550 Jul 29 14:21	22° Q 26'40		evening rise	9551 Jul 13 16:04	6° Q 27'39	
	9550 Aug 02 08:18	0° P			9551 Jul 27 04:05	0° P	
evening max el	9550 Aug 16 15:04	22° P 02'15	20°15'18	evening max el	9551 Jul 30 07:14	3° P 35'47	19°12'13
retrograde	9550 Aug 27 09:52	27° P 22'57		retrograde	9551 Aug 08 09:59	8° P 07'10	
desc. node	9550 Aug 27 08:01	27° P 22'56		evening set	9551 Aug 10 06:38	7° P 56'38	
evening set	9550 Aug 29 09:05	27° P 13'03		desc. node	9551 Aug 14 05:11	6° P 32'39	
inferior conj	9550 Sep 07 11:20	23° P 14'55	-3°20'00	inferior conj	9551 Aug 18 18:53	3° P 45'42	-1°24'49
minimum elong	9550 Sep 07 02:36	23° P 27'46	3°17'06	minimum elong	9551 Aug 18 15:09	3° P 51'59	1°23'32
min. Earth dist.	9550 Sep 08 23:47	22° P 21'13	0.54891 AU	min. Earth dist.	9551 Aug 21 12:50	1° P 55'33	0.56014 AU
morning rise	9550 Sep 15 19:15	19° P 07'19			9551 Aug 24 18:59	30° R Q	
direct	9550 Sep 20 04:08	18° P 26'09		morning rise	9551 Aug 26 20:44	29° Q 03'21	
morning max el	9550 Oct 03 16:15	25° P 00'54	23°52'33	direct	9551 Sep 01 01:05	28° Q 01'27	
	9550 Oct 08 07:24	0° A			9551 Sep 08 06:11	0° P	
asc. node	9550 Oct 20 03:02	18° A 03'46		morning max el	9551 Sep 15 04:38	5° P 12'51	25°35'05
	9550 Oct 26 04:50	0° M			9551 Oct 03 02:01	0° A	
morning set	9550 Oct 27 23:24	3° M 44'03		asc. node	9551 Oct 06 23:57	7° A 19'10	
				morning set	9551 Oct 12 10:49	18° A 29'36	
					9551 Oct 17 17:18	0° M	
superior conj	9550 Nov 03 20:55	18° M 41'15	1°40'16				
minimum elong	9550 Nov 03 20:34	18° M 39'18	1°40'30	superior conj	9551 Oct 19 07:06	3° M 28'48	1°35'27
max. Earth dist.	9550 Nov 06 07:28	23° M 56'22	1.33003 AU	minimum elong	9551 Oct 19 05:45	3° M 21'19	1°35'32
	9550 Nov 09 04:37	0° J		max. Earth dist.	9551 Oct 20 12:29	6° M 10'41	1.32060 AU
evening rise	9550 Nov 11 09:33	4° J 30'10		evening rise	9551 Oct 26 08:51	18° M 43'30	
desc. node	9550 Nov 23 06:22	26° J 19'33			9551 Nov 01 00:51	0° J	
	9550 Nov 25 12:20	0° B		desc. node	9551 Nov 10 03:27	15° J 55'44	
evening max el	9550 Dec 15 07:38	25° B 49'02	27°26'20		9551 Nov 19 22:41	0° B	
	9550 Dec 20 09:24	0° A		evening max el	9551 Nov 27 16:57	8° B 38'28	27°25'51
retrograde	9550 Dec 28 22:34	3° A 09'39		retrograde	9551 Dec 11 12:53	15° B 54'36	
evening set	9551 Jan 04 21:15	0° A 37'11		evening set	9551 Dec 18 14:22	13° B 33'14	
	9551 Jan 05 16:36	30° R B		min. Earth dist.	9551 Dec 22 07:01	10° B 38'08	0.62126 AU
min. Earth dist.	9551 Jan 08 16:19	27° B 15'01	0.64041 AU	inferior conj	9551 Dec 25 05:49	7° B 54'13	-2°49'33
inferior conj	9551 Jan 11 05:15	24° B 36'35	-1°37'20	minimum elong	9551 Dec 25 11:21	7° B 41'21	2°47'08
minimum elong	9551 Jan 11 08:18	24° B 28'37	1°35'46	morning rise	9552 Jan 01 10:43	2° B 50'29	
asc. node	9551 Jan 16 02:28	20° B 12'29		asc. node	9552 Jan 02 23:33	2° B 30'30	
morning rise	9551 Jan 17 21:10	19° B 15'03		direct	9552 Jan 03 16:29	2° B 28'16	
direct	9551 Jan 20 08:15	18° B 44'42		morning max el	9552 Jan 10 12:24	5° B 56'31	17°49'09
morning max el	9551 Jan 26 19:28	22° B 06'12	17°50'09	morning set	9552 Jan 26 07:49	0° A 29'51	
	9551 Feb 01 23:19	0° A			9552 Jan 26 01:07	0° A	
morning set	9551 Feb 12 14:09	17° A 30'16		desc. node	9552 Feb 06 02:48	19° A 24'25	
desc. node	9551 Feb 19 05:56	28° A 43'48					

superior conj	9552 Feb 06 12:40	20° \approx 06'22	-0°03'06	superior conj	9553 Jan 18 10:37	2° \approx 08'48	0°34'00
minimum elong	9552 Feb 06 12:24	20° \approx 05'12	0°02'49	minimum elong	9553 Jan 18 13:07	2° \approx 19'59	0°33'55
behind sun begin	9552 Feb 06 03:45	19° \approx 28'27		desc. node	9553 Jan 22 23:41	10° \approx 07'43	
behind sun end	9552 Feb 06 21:03	20° \approx 41'52		max. Earth dist.	9553 Jan 26 01:43	15° \approx 22'34	1.41693 AU
	9552 Feb 12 11:26	0° \mathcal{H}		evening rise	9553 Jan 31 05:37	23° \approx 52'02	
max. Earth dist.	9552 Feb 13 14:32	1° \mathcal{H} 50'12	1.43529 AU		9553 Feb 04 02:18	0° \mathcal{H}	
evening rise	9552 Feb 20 23:51	13° \mathcal{H} 33'32			9553 Feb 24 19:37	0° \mathcal{Y}	
	9552 Mar 02 20:19	0° \mathcal{Y}		evening max el	9553 Mar 05 19:21	10° \mathcal{Y} 35'19	22°50'42
evening max el	9552 Mar 23 02:37	26° \mathcal{Y} 51'44	21°32'15	retrograde	9553 Mar 15 22:09	16° \mathcal{Y} 34'38	
	9552 Mar 26 15:59	0° \mathcal{B}		asc. node	9553 Mar 17 19:16	16° \mathcal{Y} 17'15	
asc. node	9552 Mar 30 22:07	2° \mathcal{B} 02'53		evening set	9553 Mar 20 18:26	14° \mathcal{Y} 34'16	
retrograde	9552 Apr 01 02:01	2° \mathcal{B} 09'39		inferior conj	9553 Mar 26 03:05	8° \mathcal{Y} 09'48	2°24'21
evening set	9552 Apr 05 11:05	0° \mathcal{B} 24'02		minimum elong	9553 Mar 26 00:52	8° \mathcal{Y} 17'28	2°23'44
	9552 Apr 05 22:19	30° \mathcal{R} \mathcal{Y}		min. Earth dist.	9553 Mar 25 19:27	8° \mathcal{Y} 36'14	0.68539 AU
inferior conj	9552 Apr 10 18:09	24° \mathcal{Y} 07'33	2°53'01	morning rise	9553 Mar 31 07:10	2° \mathcal{Y} 01'31	
minimum elong	9552 Apr 10 16:15	24° \mathcal{Y} 14'11	2°52'31	direct	9553 Apr 04 19:08	0° \mathcal{Y} 10'37	
min. Earth dist.	9552 Apr 10 22:47	23° \mathcal{Y} 51'24	0.68413 AU	morning max el	9553 Apr 13 14:44	5° \mathcal{Y} 17'32	21°29'55
morning rise	9552 Apr 15 21:13	17° \mathcal{Y} 54'00		desc. node	9553 Apr 20 23:56	13° \mathcal{Y} 58'09	
direct	9552 Apr 20 22:51	15° \mathcal{Y} 41'45			9553 May 02 10:09	0° \mathcal{B}	
morning max el	9552 May 01 00:50	21° \mathcal{Y} 40'24	22°56'05	morning set	9553 May 15 09:13	19° \mathcal{B} 49'39	
desc. node	9552 May 04 03:04	25° \mathcal{Y} 01'10			9553 May 21 16:26	0° \mathcal{I}	
	9552 May 08 05:24	0° \mathcal{B}		max. Earth dist.	9553 May 21 22:04	0° \mathcal{I} 23'12	1.42119 AU
	9552 May 28 23:24	0° \mathcal{I}					
morning set	9552 Jun 04 10:38	10° \mathcal{I} 27'08		superior conj	9553 May 29 10:09	13° \mathcal{I} 03'30	-1°54'42
max. Earth dist.	9552 Jun 08 20:54	17° \mathcal{I} 55'02	1.39956 AU	minimum elong	9553 May 29 16:10	13° \mathcal{I} 29'33	1°54'31
	9552 Jun 15 17:06	0° \mathcal{E}			9553 Jun 07 22:31	0° \mathcal{E}	
				evening rise	9553 Jun 09 13:22	2° \mathcal{E} 56'51	
superior conj	9552 Jun 16 14:59	1° \mathcal{E} 39'40	-1°27'54	asc. node	9553 Jun 13 17:57	10° \mathcal{E} 32'29	
minimum elong	9552 Jun 16 20:34	2° \mathcal{E} 05'16	1°27'30	evening max el	9553 Jun 25 20:29	28° \mathcal{E} 42'03	18°08'32
evening rise	9552 Jun 26 09:05	20° \mathcal{E} 01'19			9553 Jun 27 07:28	0° \mathcal{Q}	
asc. node	9552 Jun 26 20:57	20° \mathcal{E} 57'54		retrograde	9553 Jul 02 16:51	2° \mathcal{Q} 10'34	
	9552 Jul 01 16:44	0° \mathcal{Q}		evening set	9553 Jul 05 02:53	1° \mathcal{Q} 45'01	
evening max el	9552 Jul 12 10:22	15° \mathcal{Q} 52'30	18°30'15		9553 Jul 08 08:25	30° \mathcal{R} \mathcal{E}	
retrograde	9552 Jul 20 04:18	19° \mathcal{Q} 44'45		inferior conj	9553 Jul 12 01:11	26° \mathcal{E} 54'20	1°40'32
evening set	9552 Jul 22 06:34	19° \mathcal{Q} 28'38		minimum elong	9553 Jul 12 03:54	26° \mathcal{E} 48'07	1°39'22
inferior conj	9552 Jul 29 23:27	14° \mathcal{Q} 58'33	0°20'15	min. Earth dist.	9553 Jul 15 08:37	23° \mathcal{E} 54'16	0.60044 AU
minimum elong	9552 Jul 30 00:11	14° \mathcal{Q} 57'06	0°19'43	desc. node	9553 Jul 17 23:26	21° \mathcal{E} 49'57	
desc. node	9552 Jul 31 02:19	14° \mathcal{Q} 05'32		morning rise	9553 Jul 19 02:00	21° \mathcal{E} 06'08	
min. Earth dist.	9552 Aug 02 07:18	12° \mathcal{Q} 23'02	0.57842 AU	direct	9553 Jul 25 13:51	19° \mathcal{E} 05'17	
morning rise	9552 Aug 06 14:14	9° \mathcal{Q} 39'19		morning max el	9553 Aug 08 21:45	26° \mathcal{E} 59'25	27°45'15
direct	9552 Aug 12 13:02	8° \mathcal{Q} 08'47			9553 Aug 11 18:22	0° \mathcal{Q}	
morning max el	9552 Aug 26 21:49	15° \mathcal{Q} 46'37	26°56'45		9553 Sep 01 02:44	0° \mathcal{P}	
	9552 Sep 07 11:34	0° \mathcal{P}		asc. node	9553 Sep 09 17:44	16° \mathcal{P} 46'17	
asc. node	9552 Sep 22 20:51	26° \mathcal{P} 55'31		morning set	9553 Sep 10 02:07	17° \mathcal{P} 29'54	
	9552 Sep 24 08:46	0° \mathcal{L}			9553 Sep 15 21:19	0° \mathcal{L}	
morning set	9552 Sep 25 20:19	3° \mathcal{L} 06'37		max. Earth dist.	9553 Sep 16 06:54	0° \mathcal{L} 52'55	1.31598 AU
superior conj	9552 Oct 02 18:48	18° \mathcal{L} 17'40	1°25'03	superior conj	9553 Sep 17 06:12	3° \mathcal{L} 01'54	1°09'23
minimum elong	9552 Oct 02 16:47	18° \mathcal{L} 06'29	1°24'53	minimum elong	9553 Sep 17 03:58	2° \mathcal{L} 49'28	1°09'01
max. Earth dist.	9552 Oct 02 21:28	18° \mathcal{L} 32'31	1.31591 AU	evening rise	9553 Sep 23 23:44	17° \mathcal{L} 49'26	
	9552 Oct 08 02:26	0° \mathcal{M}			9553 Sep 29 22:12	0° \mathcal{M}	
evening rise	9552 Oct 09 14:20	3° \mathcal{M} 12'06		desc. node	9553 Oct 13 21:44	23° \mathcal{M} 01'49	
	9552 Oct 23 20:47	0° \mathcal{X}			9553 Oct 19 17:12	0° \mathcal{X}	
desc. node	9552 Oct 27 00:34	4° \mathcal{X} 54'39		evening max el	9553 Oct 21 16:56	1° \mathcal{X} 59'36	25°44'48
evening max el	9552 Nov 08 20:46	20° \mathcal{X} 44'20	26°51'44	retrograde	9553 Nov 04 14:46	9° \mathcal{X} 01'13	
retrograde	9552 Nov 22 18:58	27° \mathcal{X} 53'30		evening set	9553 Nov 10 19:03	7° \mathcal{X} 32'11	
evening set	9552 Nov 29 15:13	25° \mathcal{X} 53'43		min. Earth dist.	9553 Nov 15 05:29	4° \mathcal{X} 55'52	0.57971 AU
min. Earth dist.	9552 Dec 03 11:09	23° \mathcal{X} 15'35	0.60040 AU	inferior conj	9553 Nov 18 06:32	2° \mathcal{X} 47'13	-5°03'46
inferior conj	9552 Dec 06 15:22	20° \mathcal{X} 40'56	-4°01'44	minimum elong	9553 Nov 18 13:33	2° \mathcal{X} 34'48	5°02'07
minimum elong	9552 Dec 06 22:49	20° \mathcal{X} 25'45	3°59'08		9553 Nov 22 13:40	30° \mathcal{R} \mathcal{M}	
morning rise	9552 Dec 14 09:00	15° \mathcal{X} 57'42		morning rise	9553 Nov 26 10:23	28° \mathcal{M} 26'29	
direct	9552 Dec 16 12:49	15° \mathcal{X} 40'06		direct	9553 Nov 28 17:11	28° \mathcal{M} 10'04	
asc. node	9552 Dec 19 20:36	16° \mathcal{X} 23'54			9553 Dec 04 10:10	0° \mathcal{X}	
morning max el	9552 Dec 24 01:30	19° \mathcal{X} 24'13	18°07'07	asc. node	9553 Dec 06 17:37	1° \mathcal{X} 47'41	
	9552 Dec 31 20:02	0° \mathcal{Z}		morning max el	9553 Dec 07 07:02	2° \mathcal{X} 19'03	18°45'50
morning set	9553 Jan 08 17:25	14° \mathcal{Z} 13'48		morning set	9553 Dec 23 14:07	28° \mathcal{X} 28'07	
	9553 Jan 17 05:58	0° \approx			9553 Dec 24 08:55	0° \mathcal{Z}	

superior conj	9554 Jan 01 04:46	15°  08'28	1°02'47	minimum elong	9554 Dec 15 16:44	29°  03'42	1°23'04
minimum elong	9554 Jan 01 08:00	15°  23'43	1°02'40		9554 Dec 16 04:07	0° 	
max. Earth dist.	9554 Jan 08 09:06	28°  15'06	1.39564 AU	max. Earth dist.	9554 Dec 21 15:24	10°  30'12	1.37383 AU
	9554 Jan 09 09:02	0° 		evening rise	9554 Dec 25 08:54	17°  18'23	
desc. node	9554 Jan 09 20:38	0°  50'25		desc. node	9554 Dec 27 17:37	21°  28'02	
evening rise	9554 Jan 12 08:47	5°  08'08			9555 Jan 01 19:09	0° 	
	9554 Jan 28 05:08	0° 			9555 Jan 22 14:30	0° 	
evening max el	9554 Feb 16 09:34	24°  22'50	24°10'49	evening max el	9555 Jan 29 22:50	8°  11'37	25°26'01
	9554 Feb 23 17:56	0° 		retrograde	9555 Feb 11 03:18	15°  13'16	
retrograde	9554 Feb 27 14:54	0°  57'52		evening set	9555 Feb 17 00:11	12°  14'45	
	9554 Mar 03 04:10	30°  11'11		asc. node	9555 Feb 19 13:35	10°  13'12	
evening set	9554 Mar 04 23:20	28°  43'51		min. Earth dist.	9555 Feb 21 09:19	7°  59'32	0.67548 AU
asc. node	9554 Mar 04 16:25	28°  58'09		inferior conj	9555 Feb 22 16:26	6°  19'21	1°00'10
min. Earth dist.	9554 Mar 09 15:43	23°  20'42	0.68247 AU	minimum elong	9555 Feb 22 15:02	6°  23'53	0°59'47
inferior conj	9554 Mar 10 11:08	22°  15'09	1°46'39	morning rise	9555 Feb 28 06:17	0°  26'09	
minimum elong	9554 Mar 10 09:04	22°  22'08	1°46'02		9555 Mar 01 00:01	30° 	
morning rise	9554 Mar 15 18:52	16°  13'35		direct	9555 Mar 03 17:00	29°  17'56	
direct	9554 Mar 19 17:42	14°  44'44			9555 Mar 06 12:42	0° 	
morning max el	9554 Mar 27 11:39	19°  07'06	20°14'12	morning max el	9555 Mar 10 16:36	3°  08'05	19°12'45
	9554 Apr 05 08:50	0° 		greatest brilliancy	9555 Mar 23 18:31	20°  29'56	-0.7m
desc. node	9554 Apr 07 20:48	3°  30'16		desc. node	9555 Mar 25 17:41	23°  27'42	
morning set	9554 Apr 24 10:53	28°  18'37			9555 Mar 30 00:27	0° 	
	9554 Apr 25 13:06	0° 		morning set	9555 Apr 03 11:57	6°  54'10	
max. Earth dist.	9554 May 04 06:53	13°  45'40	1.43906 AU	max. Earth dist.	9555 Apr 16 22:04	27°  48'35	1.45102 AU
					9555 Apr 18 07:25	0° 	
superior conj	9554 May 10 05:29	23°  24'16	-2°10'43				
minimum elong	9554 May 10 08:20	23°  36'00	2°10'54	superior conj	9555 Apr 20 01:22	2°  45'54	-2°09'36
	9554 May 14 04:45	0° 		minimum elong	9555 Apr 19 21:16	2°  29'40	2°09'38
evening rise	9554 May 23 00:23	15°  04'16		evening rise	9555 May 04 13:35	26°  14'39	
asc. node	9554 May 31 15:00	29°  46'53			9555 May 06 20:13	0° 	
	9554 May 31 18:12	0° 		asc. node	9555 May 18 12:04	18°  13'40	
evening max el	9554 Jun 09 09:45	11°  54'42	18°06'04	evening max el	9555 May 23 22:57	25°  12'09	18°22'09
retrograde	9554 Jun 15 19:53	15°  15'08		retrograde	9555 May 30 08:50	28°  14'42	
evening set	9554 Jun 18 13:38	14°  37'30		evening set	9555 Jun 02 10:06	27°  15'23	
inferior conj	9554 Jun 24 20:51	9°  27'22	2°34'28	inferior conj	9555 Jun 08 06:18	22°  12'43	3°05'50
minimum elong	9554 Jun 24 23:35	9°  20'15	2°33'29	minimum elong	9555 Jun 08 08:03	22°  12'43	3°05'15
min. Earth dist.	9554 Jun 27 18:37	6°  26'20	0.62293 AU	min. Earth dist.	9555 Jun 10 14:05	19°  12'58	0.64341 AU
morning rise	9554 Jul 01 07:36	3°  20'32		morning rise	9555 Jun 14 04:54	16°  13'12	
desc. node	9554 Jul 04 20:31	1°  26'51		direct	9555 Jun 20 20:50	13°  13'54	
direct	9554 Jul 08 01:00	0°  54'35		desc. node	9555 Jun 21 17:35	13°  13'42	
morning max el	9554 Jul 22 03:49	8°  56'29	27°55'32	morning max el	9555 Jul 04 13:39	21°  13'01	27°29'22
	9554 Aug 07 10:14	0° 			9555 Jul 11 22:23	0° 	
	9554 Aug 24 07:39	0° 			9555 Jul 31 14:21	0° 	
morning set	9554 Aug 25 02:13	1°  13'40		morning set	9555 Aug 08 18:08	15°  12'15	
asc. node	9554 Aug 27 14:38	6°  46'25		max. Earth dist.	9555 Aug 13 11:53	24°  47'58	1.33055 AU
max. Earth dist.	9554 Aug 30 13:01	13°  01'30	1.32083 AU	asc. node	9555 Aug 14 11:33	26°  51'34	
					9555 Aug 15 23:15	0° 	
superior conj	9554 Sep 01 15:29	17°  13'53	0°48'47				
minimum elong	9554 Sep 01 13:30	17°  13'05	0°48'18	superior conj	9555 Aug 16 20:38	1°  53'57	0°23'38
	9554 Sep 07 07:21	0° 		minimum elong	9555 Aug 16 19:30	1°  47'53	0°23'13
evening rise	9554 Sep 08 11:04	2°  29'30		evening rise	9555 Aug 23 22:27	17°  06'37	
	9554 Sep 23 05:14	0° 			9555 Aug 30 06:44	0° 	
desc. node	9554 Sep 30 18:55	9°  15'56		evening max el	9555 Sep 14 17:08	22°  13'21	22°33'21
evening max el	9554 Oct 03 05:42	12°  28'50	24°13'22	desc. node	9555 Sep 17 16:06	25°  13'23	
retrograde	9554 Oct 16 22:29	19°  12'40		retrograde	9555 Sep 27 18:23	29°  08'49	
evening set	9554 Oct 21 22:17	18°  25'51		evening set	9555 Oct 01 06:01	28°  42'05	
min. Earth dist.	9554 Oct 27 16:25	15°  32'46	0.56187 AU	min. Earth dist.	9555 Oct 09 00:20	25°  14'39	0.54991 AU
inferior conj	9554 Oct 30 01:14	14°  05'08	-5°39'00	inferior conj	9555 Oct 10 02:01	24°  38'13	-5°27'18
minimum elong	9554 Oct 30 03:26	14°  01'44	5°38'41	minimum elong	9555 Oct 09 20:19	24°  46'19	5°26'30
morning rise	9554 Nov 07 10:38	10°  05'41		morning rise	9555 Oct 18 12:25	20°  15'33	
direct	9554 Nov 10 02:19	9°  14'47		direct	9555 Oct 21 17:43	20°  15'58	
morning max el	9554 Nov 20 01:22	14°  30'11	19°46'54	morning max el	9555 Nov 02 06:30	25°  52'15	21°10'07
asc. node	9554 Nov 23 14:37	18°  27'01			9555 Nov 06 01:57	0° 	
	9554 Dec 01 00:48	0°		asc. node	9555 Nov 10 11:36	6° 06'35	
morning set	9554 Dec 07 18:07	13° 27'01		morning set	9555 Nov 22 02:43	27° 14'54	
					9555 Nov 23 04:38	0°	
superior conj	9554 Dec 15 14:02	28° 27'50	1°23'00				

superior conj	9555 Nov 29 10:09	13°♊02'28	1°35'14	morning max el	9556 Oct 13 23:57	6°♊28'40	22°50'54
minimum elong	9555 Nov 29 11:44	13°♊10'37	1°35'28	asc. node	9556 Oct 27 08:33	24°♊31'44	
max. Earth dist.	9555 Dec 04 01:10	22°♊24'23	1.35391 AU		9556 Oct 30 08:38	0°♊	
	9555 Dec 07 23:36	0°♊		morning set	9556 Nov 05 13:47	12°♊33'11	
evening rise	9555 Dec 08 02:52	0°♊15'22					
desc. node	9555 Dec 14 14:39	11°♊56'24		superior conj	9556 Nov 12 13:44	27°♊34'22	1°40'18
	9555 Dec 25 22:21	0°♊		minimum elong	9556 Nov 12 14:03	27°♊36'05	1°40'35
evening max el	9556 Jan 12 12:04	21°♊56'46	26°29'06		9556 Nov 13 17:05	0°♊	
retrograde	9556 Jan 25 10:37	29°♊14'07		max. Earth dist.	9556 Nov 15 18:19	4°♊18'45	1.33750 AU
evening set	9556 Jan 31 19:15	26°♊41'03		evening rise	9556 Nov 20 10:54	13°♊49'09	
min. Earth dist.	9556 Feb 04 22:07	22°♊27'18	0.66460 AU		9556 Nov 29 05:15	0°♊	
asc. node	9556 Feb 06 10:44	20°♊37'08		desc. node	9556 Nov 30 11:42	2°♊10'09	
inferior conj	9556 Feb 06 16:57	20°♊18'20	0°05'08		9556 Dec 19 20:43	0°♊	
minimum elong	9556 Feb 06 16:48	20°♊18'47	0°05'19	evening max el	9556 Dec 25 01:14	5°♊30'27	27°12'50
transit middle	9556 Feb 06 16:48	20°♊18'47	0°05'19	retrograde	9557 Jan 07 12:02	12°♊52'37	
transit begin	9556 Feb 06 14:04	20°♊27'03		evening set	9557 Jan 14 06:25	10°♊17'56	
transit end	9556 Feb 06 19:33	20°♊10'32		min. Earth dist.	9557 Jan 18 03:58	6°♊37'30	0.65012 AU
morning rise	9556 Feb 12 15:17	14°♊35'24		inferior conj	9557 Jan 20 10:25	4°♊07'10	-0°57'55
direct	9556 Feb 15 15:18	13°♊44'54		minimum elong	9557 Jan 20 12:09	4°♊02'22	0°56'54
morning max el	9556 Feb 22 04:18	17°♊15'32	18°27'21	asc. node	9557 Jan 23 07:52	1°♊06'18	
	9556 Mar 02 20:09	0°♊			9557 Jan 24 14:32	30°♊	
desc. node	9556 Mar 11 14:32	13°♊43'32		morning rise	9557 Jan 26 19:24	28°♊36'51	
morning set	9556 Mar 13 10:22	16°♊37'24		direct	9557 Jan 29 10:31	28°♊00'19	
	9556 Mar 21 21:30	0°♊			9557 Feb 03 07:11	0°♊	
				morning max el	9557 Feb 04 20:22	1°♊22'36	17°58'43
superior conj	9556 Mar 29 07:38	11°♊38'01	-1°48'11	morning set	9557 Feb 22 14:16	27°♊48'41	
minimum elong	9556 Mar 28 22:18	11°♊01'32	1°47'27		9557 Feb 23 22:03	0°♊	
max. Earth dist.	9556 Mar 29 16:41	12°♊13'26	1.45590 AU	desc. node	9557 Feb 26 11:23	4°♊12'30	
	9556 Apr 10 00:52	0°♊					
evening rise	9556 Apr 14 03:02	6°♊27'02		superior conj	9557 Mar 08 18:30	20°♊50'02	-1°10'50
greatest brilliancy	9556 Apr 23 15:05	21°♊24'59	-0.8m	minimum elong	9557 Mar 08 10:37	20°♊18'46	1°09'45
	9556 Apr 29 07:31	0°♊		max. Earth dist.	9557 Mar 12 12:12	26°♊44'16	1.45334 AU
asc. node	9556 May 04 09:11	6°♊45'17			9557 Mar 14 14:08	0°♊	
evening max el	9556 May 06 09:27	8°♊57'55	18°55'56	evening rise	9557 Mar 24 21:10	15°♊57'32	
retrograde	9556 May 13 03:46	12°♊43'17			9557 Apr 03 01:31	0°♊	
evening set	9556 May 16 12:51	11°♊37'17		greatest brilliancy	9557 Apr 07 23:30	7°♊21'15	-0.6m
inferior conj	9556 May 22 01:43	5°♊53'47	3°19'09	evening max el	9557 Apr 19 15:26	22°♊38'08	19°46'08
minimum elong	9556 May 22 02:13	5°♊52'12	3°18'49	asc. node	9557 Apr 21 06:19	24°♊09'23	
min. Earth dist.	9556 May 23 18:22	3°♊45'34	0.66048 AU	retrograde	9557 Apr 27 01:41	26°♊53'14	
	9556 May 27 03:32	30°♊		evening set	9557 Apr 30 19:20	25°♊31'55	
morning rise	9556 May 27 15:00	29°♊34'03		inferior conj	9557 May 06 03:59	19°♊34'12	3°18'03
direct	9556 Jun 03 00:06	26°♊48'46		minimum elong	9557 May 06 03:20	19°♊36'24	3°17'46
desc. node	9556 Jun 07 14:37	27°♊59'48		min. Earth dist.	9557 May 07 05:53	18°♊07'41	0.67330 AU
	9556 Jun 10 20:38	0°♊		morning rise	9557 May 11 11:00	13°♊15'17	
morning max el	9556 Jun 16 00:20	4°♊33'24	26°33'01	direct	9557 May 17 09:28	10°♊36'48	
	9556 Jul 05 09:45	0°♊		desc. node	9557 May 25 11:34	14°♊13'50	
morning set	9556 Jul 21 22:32	28°♊14'57		morning max el	9557 May 29 10:07	17°♊49'39	25°15'45
	9556 Jul 22 20:41	0°♊			9557 Jun 08 14:53	0°♊	
max. Earth dist.	9556 Jul 26 00:15	6°♊06'45	1.34523 AU		9557 Jun 28 10:06	0°♊	
				morning set	9557 Jul 04 11:18	10°♊31'44	
superior conj	9556 Jul 30 19:17	15°♊48'47	-0°05'28	max. Earth dist.	9557 Jul 08 02:19	17°♊10'11	1.36443 AU
minimum elong	9556 Jul 30 19:36	15°♊50'26	0°05'39				
behind sun begin	9556 Jul 30 14:06	15°♊21'59		superior conj	9557 Jul 14 08:39	29°♊14'01	-0°37'17
behind sun end	9556 Jul 31 01:07	16°♊18'55		minimum elong	9557 Jul 14 10:58	29°♊25'29	0°37'10
asc. node	9556 Jul 31 08:28	16°♊57'01			9557 Jul 14 17:55	0°♊	
	9556 Aug 06 13:49	0°♊		asc. node	9557 Jul 18 05:24	6°♊59'29	
evening rise	9556 Aug 07 07:50	1°♊34'06		evening rise	9557 Jul 22 13:05	15°♊46'37	
	9556 Aug 23 17:29	0°♊			9557 Jul 29 21:33	0°♊	
evening max el	9556 Aug 26 12:30	3°♊04'10	21°00'55	evening max el	9557 Aug 08 21:08	14°♊11'19	19°45'54
desc. node	9556 Sep 03 13:18	8°♊19'19		retrograde	9557 Aug 18 22:20	19°♊09'46	
retrograde	9556 Sep 07 06:37	8°♊53'52		evening set	9557 Aug 20 19:00	19°♊00'19	
evening set	9556 Sep 09 13:47	8°♊41'23		desc. node	9557 Aug 21 10:27	18°♊52'48	
inferior conj	9556 Sep 18 18:19	4°♊45'18	-4°19'13	inferior conj	9557 Aug 29 16:34	14°♊58'24	-2°31'31
minimum elong	9556 Sep 18 08:32	4°♊59'08	4°16'32	minimum elong	9557 Aug 29 09:43	15°♊08'58	2°29'07
min. Earth dist.	9556 Sep 19 08:46	4°♊24'49	0.54648 AU	min. Earth dist.	9557 Aug 31 19:33	13°♊39'46	0.55269 AU
morning rise	9556 Sep 27 03:36	0°♊50'30		morning rise	9557 Sep 06 22:30	10°♊37'08	
direct	9556 Oct 01 01:42	0°♊17'28		direct	9557 Sep 11 15:52	9°♊47'55	

morning max el	9557 Sep 25 11:43	16° \cap 39'43	24°37'36	direct	9558 Aug 23 19:05	19° Ω 34'00	
	9557 Oct 06 06:51	0° Ω		morning max el	9558 Sep 07 01:26	26° Ω 57'01	26°13'22
asc. node	9557 Oct 14 05:28	13° Ω 31'15			9558 Sep 10 00:04	0° \cap	
morning set	9557 Oct 21 01:33	27° Ω 20'49			9558 Sep 29 14:20	0° Ω	
	9557 Oct 22 07:11	0° \cap		asc. node	9558 Oct 01 02:22	2° Ω 56'32	
				morning set	9558 Oct 05 12:22	12° Ω 03'26	
superior conj	9557 Oct 27 22:07	12° \cap 17'55	1°38'56				
minimum elong	9557 Oct 27 21:18	12° \cap 13'27	1°39'07	superior conj	9558 Oct 12 09:10	27° Ω 06'44	1°31'42
max. Earth dist.	9557 Oct 29 19:39	16° \cap 25'53	1.32545 AU	minimum elong	9558 Oct 12 07:30	26° Ω 57'26	1°31'41
evening rise	9557 Nov 04 05:31	27° \cap 50'29		max. Earth dist.	9558 Oct 13 03:00	28° Ω 45'28	1.31804 AU
	9557 Nov 05 07:05	0° \cap			9558 Oct 13 16:28	0° \cap	
desc. node	9557 Nov 17 08:46	22° \cap 02'26		evening rise	9558 Oct 19 07:46	12° \cap 11'30	
	9557 Nov 22 10:49	0° Ω			9558 Oct 28 10:42	0° \cap	
evening max el	9557 Dec 07 12:52	18° Ω 40'42	27°30'12	desc. node	9558 Nov 04 05:52	11° \cap 24'32	
retrograde	9557 Dec 21 06:33	25° Ω 59'37			9558 Nov 18 14:04	0° Ω	
evening set	9557 Dec 28 07:01	23° Ω 31'03		evening max el	9558 Nov 19 20:24	1° Ω 13'55	27°15'37
min. Earth dist.	9558 Jan 01 00:46	20° Ω 20'57	0.63251 AU	retrograde	9558 Dec 03 17:13	8° Ω 26'19	
inferior conj	9558 Jan 03 18:04	17° Ω 38'50	-2°07'37	evening set	9558 Dec 10 17:45	6° Ω 13'03	
minimum elong	9558 Jan 03 22:11	17° Ω 28'36	2°05'38	min. Earth dist.	9558 Dec 14 10:57	3° Ω 26'45	0.61251 AU
asc. node	9558 Jan 10 04:58	12° Ω 34'37		inferior conj	9558 Dec 17 12:44	0° Ω 45'07	-3°20'37
morning rise	9558 Jan 10 15:24	12° Ω 24'09		minimum elong	9558 Dec 17 19:14	0° Ω 30'48	3°18'00
direct	9558 Jan 12 23:51	11° Ω 57'42			9558 Dec 18 09:24	30° \cap	
morning max el	9558 Jan 19 13:52	15° Ω 21'13	17°47'26	morning rise	9558 Dec 24 23:10	25° \cap 49'34	
	9558 Jan 29 21:04	0° \approx		direct	9558 Dec 27 03:46	25° \cap 29'35	
morning set	9558 Feb 04 20:05	10° \approx 15'00		asc. node	9558 Dec 28 02:02	25° \cap 33'17	
desc. node	9558 Feb 13 08:14	24° \approx 49'57		morning max el	9559 Jan 03 05:36	29° \cap 03'16	17°54'25
	9558 Feb 16 10:34	0° \cap			9559 Jan 04 03:30	0° Ω	
				morning set	9559 Jan 18 21:19	23° Ω 36'21	
superior conj	9558 Feb 17 01:26	1° \cap 01'24	-0°27'19		9559 Jan 22 09:42	0° \approx	
minimum elong	9558 Feb 16 22:34	0° \cap 49'34	0°26'42				
max. Earth dist.	9558 Feb 23 06:24	11° \cap 05'40	1.44373 AU	superior conj	9559 Jan 29 09:48	12° \approx 25'50	0°13'35
evening rise	9558 Mar 04 08:30	25° \cap 19'35		minimum elong	9559 Jan 29 10:59	12° \approx 30'59	0°13'39
	9558 Mar 07 09:49	0° \cap		behind sun begin	9559 Jan 29 06:38	12° \approx 12'05	
	9558 Mar 28 05:28	0° Ω		behind sun end	9559 Jan 29 15:21	12° \approx 49'52	
evening max el	9558 Apr 02 15:54	6° Ω 19'28	20°50'22	desc. node	9559 Jan 31 05:09	15° \approx 32'31	
asc. node	9558 Apr 08 03:28	10° Ω 31'44		max. Earth dist.	9559 Feb 05 20:58	25° \approx 01'50	1.42806 AU
retrograde	9558 Apr 11 00:16	11° Ω 12'38			9559 Feb 08 22:20	0° \cap	
evening set	9558 Apr 15 03:28	9° Ω 35'45		evening rise	9559 Feb 12 04:20	5° \cap 10'27	
inferior conj	9558 Apr 20 10:30	3° Ω 25'33	3°05'07		9559 Feb 28 17:31	0° \cap	
minimum elong	9558 Apr 20 08:57	3° Ω 30'53	3°04'44	evening max el	9559 Mar 16 11:03	20° \cap 01'57	22°04'55
min. Earth dist.	9558 Apr 20 22:34	2° Ω 43'52	0.68155 AU	retrograde	9559 Mar 25 21:44	25° \cap 37'20	
	9558 Apr 22 23:48	30° \cap		asc. node	9559 Mar 26 00:37	25° \cap 37'15	
morning rise	9558 Apr 25 14:13	27° \cap 09'48		evening set	9559 Mar 30 11:35	23° \cap 45'06	
direct	9558 Apr 30 23:49	24° \cap 46'25		inferior conj	9559 Apr 04 19:07	17° \cap 24'51	2°41'58
	9558 May 10 13:11	0° Ω		minimum elong	9559 Apr 04 17:01	17° \cap 32'06	2°41'25
morning max el	9558 May 11 19:21	1° Ω 13'46	23°47'41	min. Earth dist.	9559 Apr 04 18:23	17° \cap 27'24	0.68529 AU
desc. node	9558 May 12 08:29	1° Ω 47'23		morning rise	9559 Apr 09 22:19	11° \cap 13'37	
	9558 Jun 02 13:45	0° \cap		direct	9559 Apr 14 18:07	9° \cap 10'22	
morning set	9558 Jun 16 03:16	21° \cap 48'46		morning max el	9559 Apr 24 06:43	14° \cap 46'01	22°18'28
max. Earth dist.	9558 Jun 19 23:04	28° \cap 27'13	1.38656 AU	desc. node	9559 Apr 29 05:24	20° \cap 18'52	
	9558 Jun 20 20:00	0° Ω			9559 May 06 14:30	0° Ω	
					9559 May 26 13:15	0° \cap	
superior conj	9558 Jun 27 09:07	12° Ω 00'21	-1°09'56	morning set	9559 May 27 17:30	1° \cap 54'09	
minimum elong	9558 Jun 27 13:39	12° Ω 21'44	1°09'33	max. Earth dist.	9559 Jun 01 21:34	10° \cap 26'58	1.40913 AU
asc. node	9558 Jul 05 02:22	26° Ω 54'52					
evening rise	9558 Jul 06 11:29	29° Ω 36'51		superior conj	9559 Jun 09 16:19	23° \cap 57'14	-1°40'12
	9558 Jul 06 16:14	0° Ω		minimum elong	9559 Jun 09 22:24	24° \cap 24'25	1°39'50
evening max el	9558 Jul 22 18:26	26° Ω 04'08	18°51'47		9559 Jun 13 00:35	0° Ω	
	9558 Jul 29 00:44	0° \cap		evening rise	9559 Jun 19 23:37	12° Ω 55'43	
retrograde	9558 Jul 31 05:41	0° \cap 16'51		asc. node	9559 Jun 21 23:22	16° Ω 38'37	
evening set	9558 Aug 02 04:23	0° \cap 04'21			9559 Jun 29 13:04	0° Ω	
	9558 Aug 02 12:03	30° \cap		evening max el	9559 Jul 06 00:57	8° Ω 35'35	18°18'32
desc. node	9558 Aug 08 07:34	27° Ω 10'45		retrograde	9559 Jul 13 08:22	12° Ω 16'10	
inferior conj	9558 Aug 10 08:34	25° Ω 45'28	-0°37'42	evening set	9559 Jul 15 13:50	11° Ω 56'26	
minimum elong	9558 Aug 10 06:59	25° Ω 48'17	0°37'17	inferior conj	9559 Jul 22 22:25	7° Ω 17'10	0°57'41
min. Earth dist.	9558 Aug 13 10:20	23° Ω 34'15	0.56729 AU	minimum elong	9559 Jul 23 00:18	7° Ω 13'13	0°56'44
morning rise	9558 Aug 18 06:18	20° Ω 47'22		desc. node	9559 Jul 26 04:43	4° Ω 33'50	

min. Earth dist.	9559 Jul 26 07:23	4°♎28'30	0.58750 AU	desc. node	9560 Jul 12 01:50	12°♏57'45	
morning rise	9559 Jul 30 07:25	1°♎44'13		direct	9560 Jul 17 18:02	11°♏20'23	
direct	9559 Aug 05 12:22	0°♎00'55		morning max el	9560 Aug 01 00:41	19°♏19'52	27°54'21
morning max el	9559 Aug 19 21:37	7°♎46'34	27°22'07		9560 Aug 10 02:04	0°♎	
	9559 Sep 05 16:24	0°♎			9560 Aug 28 13:00	0°♎	
asc. node	9559 Sep 17 23:14	22°♎39'48		morning set	9560 Sep 03 00:11	10°♎51'51	
morning set	9559 Sep 19 20:31	26°♎35'27		asc. node	9560 Sep 03 20:09	12°♎35'32	
	9559 Sep 21 10:56	0°♎		max. Earth dist.	9560 Sep 08 21:14	23°♎25'27	1.31741 AU
superior conj	9559 Sep 26 20:57	11°♎54'10	1°19'01	superior conj	9560 Sep 10 07:41	26°♎35'03	1°01'13
minimum elong	9559 Sep 26 18:47	11°♎42'08	1°18'46	minimum elong	9560 Sep 10 05:29	26°♎22'56	1°00'48
max. Earth dist.	9559 Sep 26 12:47	11°♎08'47	1.31533 AU		9560 Sep 11 20:46	0°♎	
evening rise	9559 Oct 03 15:09	26°♎44'25		evening rise	9560 Sep 17 01:36	11°♎23'36	
	9559 Oct 05 04:11	0°♎			9560 Sep 26 10:07	0°♎	
desc. node	9559 Oct 22 03:00	0°♎03'39		desc. node	9560 Oct 08 00:10	17°♎43'08	
	9559 Oct 22 01:59	0°♎		evening max el	9560 Oct 13 13:24	23°♎50'59	25°08'01
evening max el	9559 Nov 01 20:57	12°♎57'49	26°26'54		9560 Oct 22 18:42	0°♎	
retrograde	9559 Nov 15 19:01	20°♎03'56		retrograde	9560 Oct 27 10:17	0°♎50'00	
evening set	9559 Nov 22 10:13	18°♎15'58			9560 Nov 01 02:20	30°♎	
min. Earth dist.	9559 Nov 26 10:23	15°♎41'08	0.59144 AU	evening set	9560 Nov 02 03:47	29°♎35'27	
inferior conj	9559 Nov 29 14:47	13°♎15'18	-4°30'05	min. Earth dist.	9560 Nov 07 01:13	26°♎54'10	0.57156 AU
minimum elong	9559 Nov 29 22:29	13°♎00'33	4°27'46	inferior conj	9560 Nov 09 21:15	25°♎01'07	-5°23'14
morning rise	9559 Dec 07 13:16	8°♎41'53		minimum elong	9560 Nov 10 02:50	24°♎51'49	5°22'13
direct	9559 Dec 09 17:47	8°♎25'09		morning rise	9560 Nov 18 04:10	20°♎50'09	
asc. node	9559 Dec 14 23:04	10°♎06'24		direct	9560 Nov 20 13:47	20°♎33'26	
morning max el	9559 Dec 17 15:58	12°♎18'18	18°21'04	morning max el	9560 Nov 29 17:11	24°♎55'53	19°09'05
	9559 Dec 29 11:37	0°♎		asc. node	9560 Nov 30 20:05	26°♎04'07	
morning set	9560 Jan 02 12:08	7°♎34'33			9560 Dec 04 01:12	0°♎	
				morning set	9560 Dec 16 12:15	21°♎57'13	
superior conj	9560 Jan 11 17:00	24°♎54'39	0°47'15		9560 Dec 20 13:20	0°♎	
minimum elong	9560 Jan 11 20:01	25°♎08'27	0°47'07				
	9560 Jan 14 12:31	0°♎		superior conj	9560 Dec 24 18:06	8°♎13'37	1°12'22
desc. node	9560 Jan 18 02:04	6°♎16'02		minimum elong	9560 Dec 24 21:13	8°♎28'38	1°12'20
max. Earth dist.	9560 Jan 19 06:24	8°♎17'51	1.40807 AU	max. Earth dist.	9560 Dec 31 12:12	20°♎50'30	1.38621 AU
evening rise	9560 Jan 23 18:51	15°♎52'30		desc. node	9561 Jan 03 23:01	26°♎56'56	
	9560 Feb 01 16:56	0°♎		evening rise	9561 Jan 04 07:07	27°♎32'02	
	9560 Feb 23 14:08	0°♎			9561 Jan 05 17:36	0°♎	
evening max el	9560 Feb 27 02:20	3°♎46'49	23°24'52		9561 Jan 25 04:59	0°♎	
retrograde	9560 Mar 08 16:44	10°♎02'43		evening max el	9561 Feb 08 15:50	17°♎34'42	24°43'55
asc. node	9560 Mar 11 21:46	9°♎12'50		retrograde	9561 Feb 20 07:54	24°♎23'13	
evening set	9560 Mar 13 18:07	7°♎56'07		evening set	9561 Feb 25 21:31	22°♎04'00	
min. Earth dist.	9560 Mar 18 15:09	2°♎13'00	0.68465 AU	asc. node	9561 Feb 26 18:57	21°♎14'56	
inferior conj	9560 Mar 19 03:55	1°♎29'06	2°09'28	min. Earth dist.	9561 Mar 02 10:39	16°♎55'33	0.67989 AU
minimum elong	9560 Mar 19 01:43	1°♎36'42	2°08'49	inferior conj	9561 Mar 03 11:03	15°♎34'35	1°28'02
	9560 Mar 20 06:04	30°♎		minimum elong	9561 Mar 03 09:12	15°♎40'44	1°27'28
morning rise	9560 Mar 24 09:16	25°♎23'37		morning rise	9561 Mar 08 21:04	9°♎36'10	
direct	9560 Mar 28 15:27	23°♎42'23		direct	9561 Mar 12 14:29	8°♎16'29	
morning max el	9560 Apr 05 23:32	28°♎29'19	20°56'09	morning max el	9561 Mar 19 23:52	12°♎24'04	19°46'08
	9560 Apr 07 10:21	0°♎		desc. node	9561 Apr 01 23:11	29°♎16'36	
desc. node	9560 Apr 15 02:18	9°♎32'32		greatest brilliancy	9561 Apr 01 19:59	29°♎04'52	-0.6m
	9560 Apr 29 04:41	0°♎			9561 Apr 02 11:01	0°♎	
morning set	9560 May 06 05:45	10°♎50'09		morning set	9561 Apr 15 04:03	19°♎13'00	
max. Earth dist.	9560 May 14 01:59	23°♎19'40	1.42936 AU		9561 Apr 22 02:46	0°♎	
	9560 May 18 03:23	0°♎		max. Earth dist.	9561 Apr 26 13:11	6°♎59'22	1.44491 AU
superior conj	9560 May 21 01:43	4°♎55'06	-2°03'12	superior conj	9561 May 01 10:39	14°♎49'32	-2°12'39
minimum elong	9560 May 21 06:57	5°♎17'12	2°03'11	minimum elong	9561 May 01 10:50	14°♎50'17	2°12'53
evening rise	9560 Jun 01 21:14	25°♎32'57			9561 May 10 15:52	0°♎	
	9560 Jun 04 09:10	0°♎		evening rise	9561 May 14 23:28	7°♎17'03	
asc. node	9560 Jun 07 20:23	6°♎05'54		asc. node	9561 May 25 17:27	25°♎10'05	
evening max el	9560 Jun 18 12:51	21°♎36'27	18°05'10		9561 May 28 23:52	0°♎	
retrograde	9560 Jun 25 03:46	25°♎00'03		evening max el	9561 Jun 02 02:30	4°♎56'49	18°10'43
evening set	9560 Jun 27 16:58	24°♎29'48		retrograde	9561 Jun 08 11:25	8°♎18'05	
inferior conj	9560 Jul 04 08:23	19°♎30'44	2°06'27	evening set	9561 Jun 11 08:20	7°♎34'53	
minimum elong	9560 Jul 04 11:17	19°♎23'41	2°05'18	inferior conj	9561 Jun 17 10:25	2°♎17'24	2°50'13
min. Earth dist.	9560 Jul 07 12:33	16°♎27'11	0.61006 AU	minimum elong	9561 Jun 17 12:48	2°♎10'52	2°49'24
morning rise	9560 Jul 11 03:02	13°♎33'00			9561 Jun 19 12:29	30°♎	

min. Earth dist.	9561 Jun 20 02:41	29°II22'08	0.63203 AU	min. Earth dist.	9562 Jun 03 01:55	13°II01'10	0.65127 AU
morning rise	9561 Jun 23 15:42	26°II05'31		morning rise	9562 Jun 06 18:50	9°II11'41	
desc. node	9561 Jun 28 22:56	23°II38'02		direct	9562 Jun 13 08:35	6°II27'16	
direct	9561 Jun 30 09:24	23°II31'18		desc. node	9562 Jun 15 20:00	6°II47'44	
	9561 Jul 12 17:33	0°☾		morning max el	9562 Jun 26 18:49	14°II21'47	27°08'27
morning max el	9561 Jul 14 08:32	1°☾34'16	27°48'25		9562 Jul 09 11:38	0°☾	
	9561 Aug 04 07:39	0°♊			9562 Jul 28 00:23	0°♊	
morning set	9561 Aug 17 21:07	24°♊45'51		morning set	9562 Aug 01 08:33	8°♊10'04	
	9561 Aug 20 10:42	0°♊		max. Earth dist.	9562 Aug 05 19:00	16°♊58'42	1.33628 AU
asc. node	9561 Aug 21 17:03	2°♊38'23		asc. node	9562 Aug 08 13:57	22°♊44'14	
max. Earth dist.	9561 Aug 23 00:25	5°♊24'15	1.32435 AU				
				superior conj	9562 Aug 09 18:11	25°♊12'32	0°11'44
superior conj	9561 Aug 25 15:28	11°♊03'12	0°38'38	minimum elong	9562 Aug 09 17:36	25°♊09'24	0°11'24
minimum elong	9561 Aug 25 13:47	10°♊54'01	0°38'10	behind sun begin	9562 Aug 09 13:37	24°♊48'27	
evening rise	9561 Sep 01 13:10	26°♊02'59		behind sun end	9562 Aug 09 21:34	25°♊30'23	
	9561 Sep 03 09:58	0°♊			9562 Aug 12 00:22	0°♊	
	9561 Sep 21 05:14	0°♊		evening rise	9562 Aug 16 23:57	10°♊37'02	
desc. node	9561 Sep 24 21:20	4°♊00'06			9562 Aug 26 23:51	0°♊	
evening max el	9561 Sep 25 00:40	4°♊08'11	23°30'53	evening max el	9562 Sep 06 14:33	14°♊20'52	21°52'16
retrograde	9561 Oct 08 12:51	10°♊52'47		desc. node	9562 Sep 11 18:31	18°♊25'09	
evening set	9561 Oct 12 21:12	10°♊11'37		retrograde	9562 Sep 19 03:56	20°♊35'27	
min. Earth dist.	9561 Oct 19 10:43	7°♊05'38	0.55585 AU	evening set	9562 Sep 22 01:48	20°♊16'27	
inferior conj	9561 Oct 21 07:41	5°♊59'10	-5°40'52	inferior conj	9562 Oct 01 03:13	16°♊17'43	-5°04'56
minimum elong	9561 Oct 21 06:34	6°♊00'49	5°40'39	minimum elong	9562 Sep 30 18:54	16°♊29'21	5°03'17
morning rise	9561 Oct 29 17:52	2°♊06'03		min. Earth dist.	9562 Sep 30 18:17	16°♊30'13	0.54733 AU
direct	9561 Nov 01 14:47	1°♊45'49		morning rise	9562 Oct 09 13:17	12°♊29'47	
morning max el	9561 Nov 12 05:59	6°♊46'37	20°19'43	direct	9562 Oct 13 01:49	12°♊02'35	
asc. node	9561 Nov 17 17:05	13°♊11'09		morning max el	9562 Oct 25 05:28	17°♊47'11	21°51'24
	9561 Nov 27 11:55	0°♊			9562 Nov 03 20:14	0°♊	
morning set	9561 Nov 30 18:30	6°♊35'49		asc. node	9562 Nov 04 14:03	1°♊11'50	
				morning set	9562 Nov 15 04:23	21°♊22'34	
superior conj	9561 Dec 08 08:26	22°♊09'47	1°29'06		9562 Nov 19 06:05	0°♊	
minimum elong	9561 Dec 08 10:42	22°♊21'13	1°29'15				
	9561 Dec 12 07:12	0°♊		superior conj	9562 Nov 22 08:04	6°♊31'22	1°38'13
max. Earth dist.	9561 Dec 13 19:15	2°♊53'50	1.36500 AU	minimum elong	9562 Nov 22 09:06	6°♊36'50	1°38'29
evening rise	9561 Dec 17 15:20	10°♊03'59		max. Earth dist.	9562 Nov 26 08:14	14°♊47'44	1.34644 AU
desc. node	9561 Dec 21 20:00	17°♊31'31		evening rise	9562 Nov 30 15:44	23°♊17'56	
	9561 Dec 29 09:11	0°♊			9562 Dec 04 05:39	0°♊	
	9562 Jan 20 19:47	0°♊		desc. node	9562 Dec 08 17:00	7°♊54'32	
evening max el	9562 Jan 22 05:14	1°♊23'54	25°54'56		9562 Dec 23 01:04	0°♊	
retrograde	9562 Feb 03 18:15	8°♊33'28		evening max el	9563 Jan 04 18:41	15°♊06'05	26°50'35
evening set	9562 Feb 09 20:08	6°♊04'30		retrograde	9563 Jan 17 22:51	22°♊25'46	
asc. node	9562 Feb 13 16:06	2°♊03'00		evening set	9563 Jan 24 12:03	19°♊51'21	
min. Earth dist.	9562 Feb 14 02:36	1°♊30'46	0.67125 AU	min. Earth dist.	9563 Jan 28 12:37	15°♊52'02	0.65889 AU
	9562 Feb 15 07:32	30°♊		inferior conj	9563 Jan 30 12:22	13°♊33'15	-0°20'41
inferior conj	9562 Feb 15 14:35	29°♊37'50	0°37'54	minimum elong	9563 Jan 30 12:57	13°♊31'34	0°20'10
minimum elong	9562 Feb 15 13:38	29°♊40'48	0°37'42	asc. node	9563 Jan 31 13:15	12°♊21'40	
morning rise	9562 Feb 21 07:43	23°♊48'27		morning rise	9563 Feb 05 14:58	7°♊55'16	
direct	9562 Feb 24 13:44	22°♊48'02		direct	9563 Feb 08 11:05	7°♊11'01	
morning max el	9562 Mar 03 07:50	26°♊28'31	18°51'25	morning max el	9563 Feb 14 21:40	10°♊36'30	18°13'07
	9562 Mar 06 11:28	0°♊			9563 Feb 28 15:34	0°♊	
desc. node	9562 Mar 19 20:03	19°♊23'03		morning set	9563 Mar 05 23:05	8°♊33'23	
morning set	9562 Mar 25 12:13	28°♊12'22		desc. node	9563 Mar 06 16:52	9°♊45'03	
	9562 Mar 26 15:50	0°♊			9563 Mar 19 09:57	0°♊	
max. Earth dist.	9562 Apr 09 06:12	21°♊14'17	1.45403 AU				
				superior conj	9563 Mar 21 04:41	2°♊47'54	-1°33'46
superior conj	9562 Apr 10 23:00	23°♊54'20	-2°02'56	minimum elong	9563 Mar 20 19:12	2°♊10'38	1°32'46
minimum elong	9562 Apr 10 16:00	23°♊26'54	2°02'41	max. Earth dist.	9563 Mar 23 02:03	5°♊45'37	1.45576 AU
	9562 Apr 14 19:48	0°♊		evening rise	9563 Apr 06 06:41	27°♊53'56	
evening rise	9562 Apr 26 02:32	18°♊02'22			9563 Apr 07 15:03	0°♊	
	9562 May 03 12:15	0°♊		greatest brilliancy	9563 Apr 17 21:25	15°♊52'11	-0.7m
asc. node	9562 May 12 14:33	13°♊43'40			9563 Apr 28 01:02	0°♊	
evening max el	9562 May 16 14:56	18°♊29'22	18°34'24	asc. node	9563 Apr 29 11:40	1°♊36'31	
retrograde	9562 May 23 03:14	22°♊01'59		evening max el	9563 Apr 29 23:42	2°♊07'36	19°15'23
evening set	9562 May 26 07:51	21°♊04'24		retrograde	9563 May 06 23:47	6°♊04'12	
inferior conj	9562 Jun 01 00:32	15°♊29'55	3°13'23	evening set	9563 May 10 12:29	4°♊51'32	
minimum elong	9562 Jun 01 01:45	15°♊26'13	3°12'56		9563 May 15 05:05	30°♊	

inferior conj	9563 May 15 23:12	29°♄01'37	3°20'14	asc. node	9564 Apr 15 08:48	18°♄36'07	
minimum elong	9563 May 15 23:11	29°♄01'40	3°19'57	retrograde	9564 Apr 19 22:20	20°♄18'43	
min. Earth dist.	9563 May 17 09:22	27°♄10'50	0.66648 AU	evening set	9564 Apr 23 19:54	18°♄50'42	
morning rise	9563 May 21 09:28	22°♄42'00		inferior conj	9564 Apr 29 03:32	12°♄47'10	3°13'55
direct	9563 May 27 14:20	19°♄58'47		minimum elong	9564 Apr 29 02:28	12°♄50'48	3°13'36
desc. node	9563 Jun 02 17:00	22°♄03'21		min. Earth dist.	9564 Apr 29 23:22	11°♄39'44	0.67728 AU
morning max el	9563 Jun 09 05:19	27°♄31'12	26°02'14	morning rise	9564 May 04 08:47	6°♄29'15	
	9563 Jun 11 13:19	0°♄		direct	9564 May 10 01:49	3°♄56'35	
	9563 Jul 03 03:56	0°♄		desc. node	9564 May 19 13:56	8°♄54'15	
morning set	9563 Jul 15 06:56	20°♄55'22		morning max el	9564 May 21 14:53	10°♄51'59	24°39'09
max. Earth dist.	9563 Jul 19 03:09	28°♄11'02	1.35296 AU		9564 Jun 05 20:23	0°♄	
	9563 Jul 20 01:38	0°♄			9564 Jun 24 20:48	0°♄	
				morning set	9564 Jun 26 11:33	2°♄48'56	
superior conj	9563 Jul 24 13:19	8°♄56'30	-0°18'41	max. Earth dist.	9564 Jun 30 02:21	9°♄17'17	1.37354 AU
minimum elong	9563 Jul 24 14:26	9°♄02'08	0°18'45				
asc. node	9563 Jul 26 10:52	12°♄49'25		superior conj	9564 Jul 06 21:40	22°♄06'19	-0°51'10
evening rise	9563 Aug 01 07:56	25°♄00'03		minimum elong	9564 Jul 07 00:56	22°♄22'10	0°50'56
	9563 Aug 03 18:46	0°♄			9564 Jul 10 21:51	0°♄	
evening max el	9563 Aug 19 15:15	25°♄03'03	20°26'27	asc. node	9564 Jul 12 07:48	2°♄49'30	
	9563 Aug 27 05:18	0°♄		evening rise	9564 Jul 15 10:40	9°♄04'25	
desc. node	9563 Aug 29 15:43	0°♄28'54			9564 Jul 27 00:01	0°♄	
retrograde	9563 Aug 30 16:21	0°♄31'38		evening max el	9564 Aug 01 05:33	6°♄30'06	19°20'18
evening set	9563 Sep 01 17:01	0°♄21'21		retrograde	9564 Aug 10 14:01	11°♄08'17	
	9563 Sep 03 06:46	30°♄		evening set	9564 Aug 12 10:18	10°♄58'14	
inferior conj	9563 Sep 10 20:20	26°♄24'03	-3°36'29	desc. node	9564 Aug 15 12:53	9°♄59'56	
minimum elong	9563 Sep 10 11:07	26°♄37'25	3°33'33	inferior conj	9564 Aug 21 01:13	6°♄49'59	-1°42'14
min. Earth dist.	9563 Sep 12 03:16	25°♄39'03	0.54798 AU	minimum elong	9564 Aug 20 20:39	6°♄57'28	1°40'37
morning rise	9563 Sep 19 04:42	22°♄20'24		min. Earth dist.	9564 Aug 23 15:48	5°♄07'40	0.55797 AU
direct	9563 Sep 23 10:39	21°♄41'40		morning rise	9564 Aug 29 04:16	2°♄13'08	
morning max el	9563 Oct 06 19:40	28°♄10'25	23°36'33	direct	9564 Sep 03 05:44	1°♄14'46	
	9563 Oct 08 15:45	0°♄		morning max el	9564 Sep 17 07:44	8°♄21'39	25°20'39
asc. node	9563 Oct 22 10:58	19°♄53'23			9564 Oct 03 08:44	0°♄	
	9563 Oct 27 16:38	0°♄		asc. node	9564 Oct 08 07:51	9°♄04'52	
morning set	9563 Oct 30 16:00	6°♄12'06		morning set	9564 Oct 14 03:34	20°♄58'28	
					9564 Oct 18 07:07	0°♄	
superior conj	9563 Nov 06 14:01	21°♄09'48	1°40'28	superior conj	9564 Oct 20 23:49	5°♄56'46	1°36'34
minimum elong	9563 Nov 06 13:50	21°♄08'47	1°40'43	minimum elong	9564 Oct 20 22:36	5°♄50'03	1°36'40
max. Earth dist.	9563 Nov 09 05:11	26°♄48'14	1.33183 AU	max. Earth dist.	9564 Oct 22 09:15	9°♄00'30	1.32172 AU
	9563 Nov 10 17:37	0°♄		evening rise	9564 Oct 28 02:53	21°♄15'32	
evening rise	9563 Nov 14 04:41	7°♄04'52			9564 Nov 01 11:39	0°♄	
desc. node	9563 Nov 25 14:03	28°♄00'26		desc. node	9564 Nov 11 11:09	17°♄41'18	
	9563 Nov 26 18:54	0°♄			9564 Nov 19 19:14	0°♄	
evening max el	9563 Dec 18 07:17	28°♄30'58	27°23'41	evening max el	9564 Nov 29 17:18	11°♄26'25	27°28'01
	9563 Dec 19 22:12	0°♄		retrograde	9564 Dec 13 12:53	18°♄43'38	
retrograde	9563 Dec 31 21:18	5°♄52'21		evening set	9564 Dec 20 14:15	16°♄20'05	
evening set	9564 Jan 07 19:03	3°♄18'55		min. Earth dist.	9564 Dec 24 07:02	13°♄21'19	0.62422 AU
	9564 Jan 11 11:37	30°♄		inferior conj	9564 Dec 27 04:31	10°♄37'22	-2°38'29
min. Earth dist.	9564 Jan 11 14:39	29°♄52'14	0.64305 AU	minimum elong	9564 Dec 27 09:42	10°♄25'07	2°36'10
inferior conj	9564 Jan 14 01:59	27°♄15'27	-1°26'50	morning rise	9565 Jan 03 07:28	5°♄30'43	
minimum elong	9564 Jan 14 04:41	27°♄08'18	1°25'23	asc. node	9565 Jan 04 07:27	5°♄14'52	
asc. node	9564 Jan 18 10:22	23°♄10'16		direct	9565 Jan 05 13:46	5°♄07'34	
morning rise	9564 Jan 20 16:05	21°♄51'41		morning max el	9565 Jan 12 07:59	8°♄34'27	17°48'06
direct	9564 Jan 23 04:08	21°♄19'53			9565 Jan 26 10:27	0°♄	
morning max el	9564 Jan 29 14:45	24°♄41'13	17°51'47	morning set	9565 Jan 28 05:31	3°♄10'40	
	9564 Feb 03 00:13	0°♄		desc. node	9565 Feb 07 10:34	20°♄58'17	
morning set	9564 Feb 15 14:39	20°♄18'35					
	9564 Feb 21 09:20	0°♄		superior conj	9565 Feb 08 16:29	23°♄04'41	-0°09'18
desc. node	9564 Feb 21 13:41	0°♄18'04		minimum elong	9565 Feb 08 15:35	23°♄00'55	0°08'57
				behind sun begin	9565 Feb 08 08:06	22°♄29'23	
superior conj	9564 Feb 28 22:42	12°♄21'36	-0°52'30	behind sun end	9565 Feb 08 23:04	23°♄32'24	
minimum elong	9564 Feb 28 16:51	11°♄58'03	0°51'34		9565 Feb 12 20:28	0°♄	
max. Earth dist.	9564 Mar 04 21:21	20°♄14'35	1.45005 AU	max. Earth dist.	9565 Feb 15 13:45	4°♄25'30	1.43764 AU
	9564 Mar 11 03:00	0°♄		evening rise	9565 Feb 23 09:10	16°♄45'55	
evening rise	9564 Mar 15 19:58	7°♄15'41			9565 Mar 04 02:11	0°♄	
greatest brilliancy	9564 Mar 30 17:12	29°♄38'41	-0.6m	evening max el	9565 Mar 26 01:16	29°♄29'31	21°21'09
	9564 Mar 30 23:04	0°♄			9565 Mar 26 13:31	0°♄	
evening max el	9564 Apr 12 03:14	15°♄47'46	20°11'56				

asc. node	9565 Apr 02 05:58	4°♄27'58		evening rise	9566 Feb 03 12:12	26°♁57'21	
retrograde	9565 Apr 03 20:44	4°♄41'00			9566 Feb 05 10:09	0°♄	
evening set	9565 Apr 08 04:13	2°♄57'43			9566 Feb 25 20:01	0°♄	
	9565 Apr 11 00:23	30°♄♂		evening max el	9566 Mar 08 18:40	13°♄13'18	22°38'43
inferior conj	9565 Apr 13 11:12	26°♄42'51	2°56'31	retrograde	9566 Mar 18 17:14	19°♄06'18	
minimum elong	9565 Apr 13 09:23	26°♄49'10	2°56'04	asc. node	9566 Mar 20 03:09	18°♄56'26	
min. Earth dist.	9565 Apr 13 17:46	26°♄20'00	0.68359 AU	evening set	9566 Mar 23 11:49	17°♄08'02	
morning rise	9565 Apr 18 14:21	20°♄28'36		inferior conj	9566 Mar 28 20:08	10°♄44'40	2°29'18
direct	9565 Apr 23 18:05	18°♄13'14		minimum elong	9566 Mar 28 17:57	10°♄52'17	2°28'42
morning max el	9565 May 04 00:38	24°♄19'36	23°09'22	min. Earth dist.	9566 Mar 28 14:19	11°♄04'55	0.68554 AU
desc. node	9565 May 06 10:51	26°♄54'55		morning rise	9566 Apr 02 23:56	4°♄35'37	
	9565 May 09 02:10	0°♄		direct	9566 Apr 07 13:58	2°♄41'23	
	9565 May 30 06:38	0°♄		morning max el	9566 Apr 16 13:44	7°♄55'22	21°42'11
morning set	9565 Jun 07 17:06	13°♄37'05		desc. node	9566 Apr 23 07:45	15°♄45'46	
max. Earth dist.	9565 Jun 11 22:32	20°♄47'46	1.39619 AU		9566 May 03 14:59	0°♄	
	9565 Jun 17 03:31	0°♄		morning set	9566 May 18 19:39	23°♄10'17	
					9566 May 23 01:08	0°♄	
superior conj	9565 Jun 19 15:21	4°♄33'04	-1°23'18	max. Earth dist.	9566 May 24 22:54	3°♄08'23	1.41819 AU
minimum elong	9565 Jun 19 20:42	4°♄57'45	1°22'53				
evening rise	9565 Jun 29 05:10	22°♄42'27		superior conj	9566 Jun 01 13:47	16°♄05'49	-1°51'12
asc. node	9565 Jun 29 04:47	22°♄40'38		minimum elong	9566 Jun 01 19:55	16°♄32'37	1°50'57
	9565 Jul 03 01:13	0°♄			9566 Jun 09 08:25	0°♄	
evening max el	9565 Jul 15 07:20	18°♄41'00	18°35'13	evening rise	9566 Jun 12 11:37	5°♄44'18	
retrograde	9565 Jul 23 05:21	22°♄37'55		asc. node	9566 Jun 16 01:48	12°♄17'54	
evening set	9565 Jul 25 06:39	22°♄22'51			9566 Jun 27 08:17	0°♄	
inferior conj	9565 Aug 02 02:27	17°♄55'50	0°05'45	evening max el	9566 Jun 28 16:38	1°♄26'13	18°10'34
minimum elong	9565 Aug 02 02:40	17°♄55'26	0°05'26	retrograde	9566 Jul 05 15:28	4°♄57'21	
transit middle	9565 Aug 02 02:40	17°♄55'26	0°05'26	evening set	9566 Jul 08 00:21	4°♄33'22	
transit begin	9565 Aug 01 23:15	18°♄01'57			9566 Jul 14 18:42	30°♄♂	
transit end	9565 Aug 02 06:04	17°♄48'53		inferior conj	9566 Jul 15 01:12	29°♄45'31	1°30'07
desc. node	9565 Aug 02 10:02	17°♄41'16		minimum elong	9566 Jul 15 03:46	29°♄39'46	1°28'58
min. Earth dist.	9565 Aug 05 09:15	15°♄26'00	0.57541 AU	min. Earth dist.	9566 Jul 18 09:20	26°♄47'46	0.59702 AU
morning rise	9565 Aug 09 19:09	12°♄41'56		desc. node	9566 Jul 20 07:10	25°♄16'28	
direct	9565 Aug 15 15:38	11°♄15'51		morning rise	9566 Jul 22 04:10	24°♄01'05	
morning max el	9565 Aug 29 23:50	18°♄50'08	26°46'27	direct	9566 Jul 28 14:29	22°♄04'43	
	9565 Sep 08 09:54	0°♄		morning max el	9566 Aug 11 22:47	29°♄56'39	27°40'34
asc. node	9565 Sep 25 04:44	28°♄38'25			9566 Aug 12 00:08	0°♄	
	9565 Sep 25 20:48	0°♄			9566 Sep 02 10:47	0°♄	
morning set	9565 Sep 28 13:28	5°♄37'03		asc. node	9566 Sep 12 01:39	18°♄27'48	
				morning set	9566 Sep 12 19:59	20°♄03'21	
superior conj	9565 Oct 05 11:25	20°♄45'56	1°26'58		9566 Sep 17 10:59	0°♄	
minimum elong	9565 Oct 05 09:29	20°♄35'11	1°26'52	max. Earth dist.	9566 Sep 19 03:41	3°♄44'31	1.31565 AU
max. Earth dist.	9565 Oct 05 17:54	21°♄21'57	1.31633 AU				
	9565 Oct 09 15:50	0°♄		superior conj	9566 Sep 19 23:01	5°♄31'44	1°12'05
evening rise	9565 Oct 12 07:37	5°♄42'35		minimum elong	9566 Sep 19 20:47	5°♄19'19	1°11'46
	9565 Oct 25 02:07	0°♄		evening rise	9566 Sep 26 16:36	20°♄19'40	
desc. node	9565 Oct 29 08:17	6°♄46'52			9566 Oct 01 08:41	0°♄	
evening max el	9565 Nov 11 22:15	23°♄40'08	26°59'02	desc. node	9566 Oct 16 05:27	25°♄03'34	
	9565 Nov 21 08:20	0°♄			9566 Oct 20 02:12	0°♄	
retrograde	9565 Nov 25 20:13	0°♄50'02		evening max el	9566 Oct 24 19:43	5°♄03'44	25°56'37
	9565 Nov 30 05:15	30°♄♂		retrograde	9566 Nov 07 17:34	12°♄06'14	
evening set	9565 Dec 02 17:49	28°♄46'37		evening set	9566 Nov 14 01:09	10°♄32'06	
min. Earth dist.	9565 Dec 06 12:51	26°♄06'41	0.60353 AU	min. Earth dist.	9566 Nov 18 08:25	7°♄56'48	0.58272 AU
inferior conj	9565 Dec 09 16:34	23°♄29'48	-3°51'08	inferior conj	9566 Nov 21 10:43	5°♄43'15	-4°55'37
minimum elong	9565 Dec 09 23:50	23°♄14'42	3°48'31	minimum elong	9566 Nov 21 18:04	5°♄30'00	4°53'46
morning rise	9565 Dec 17 08:24	18°♄43'13		morning rise	9566 Nov 29 13:20	1°♄19'09	
direct	9565 Dec 19 12:16	18°♄25'06		direct	9566 Dec 01 19:24	1°♄02'43	
asc. node	9565 Dec 22 04:31	18°♄54'08		asc. node	9566 Dec 09 01:32	4°♄05'30	
morning max el	9565 Dec 26 21:53	22°♄06'22	18°03'12	morning max el	9566 Dec 10 04:49	5°♄07'12	18°38'41
	9566 Jan 02 00:06	0°♄			9566 Dec 25 19:59	0°♄	
morning set	9566 Jan 11 13:11	16°♄49'44		morning set	9566 Dec 26 08:30	1°♄00'41	
	9566 Jan 18 16:38	0°♄					
superior conj	9566 Jan 21 11:05	4°♄57'58	0°28'51	superior conj	9567 Jan 04 02:35	17°♄50'26	0°58'56
minimum elong	9566 Jan 21 13:19	5°♄07'51	0°28'49	minimum elong	9567 Jan 04 05:48	18°♄05'30	0°58'50
desc. node	9566 Jan 25 07:28	11°♄41'39			9567 Jan 10 19:14	0°♄	
max. Earth dist.	9566 Jan 29 01:54	18°♄04'51	1.41995 AU	max. Earth dist.	9567 Jan 11 09:57	1°♄04'31	1.39894 AU
				desc. node	9567 Jan 12 04:25	2°♄24'52	

evening rise	9567 Jan 15 12:07	8° \approx 04'55			9568 Jan 03 03:35	0° \approx	
	9567 Jan 29 10:13	0° H			9568 Jan 23 12:10	0° H	
evening max el	9567 Feb 19 09:07	27° H 00'19	23°58'55	evening max el	9568 Feb 01 22:20	10° H 48'51	25°15'22
	9567 Feb 22 16:33	0° Y		retrograde	9568 Feb 13 23:46	17° H 47'38	
retrograde	9567 Mar 02 10:34	3° Y 30'27		evening set	9568 Feb 19 18:47	15° H 23'32	
asc. node	9567 Mar 07 00:18	1° Y 51'48		asc. node	9568 Feb 21 21:28	13° H 18'32	
evening set	9567 Mar 07 17:12	1° Y 18'13		min. Earth dist.	9568 Feb 24 04:53	10° H 30'09	0.67677 AU
	9567 Mar 09 01:54	30° R H		inferior conj	9568 Feb 25 10:17	8° H 54'40	1°07'48
min. Earth dist.	9567 Mar 12 10:44	25° H 50'00	0.68323 AU	minimum elong	9568 Feb 25 08:45	8° H 59'40	1°07'22
inferior conj	9567 Mar 13 04:28	24° H 49'51	1°52'58	morning rise	9568 Mar 01 23:04	3° H 00'08	
minimum elong	9567 Mar 13 02:20	24° H 57'04	1°52'19	direct	9568 Mar 05 11:27	1° H 49'05	
morning rise	9567 Mar 18 11:30	18° H 47'20		morning max el	9568 Mar 12 13:23	5° H 43'25	19°20'54
direct	9567 Mar 22 12:14	17° H 15'20		greatest brilliancy	9568 Mar 25 09:42	22° H 38'55	-0.7m
morning max el	9567 Mar 30 09:35	21° H 43'28	20°24'36	desc. node	9568 Mar 27 01:30	25° H 07'46	
	9567 Apr 06 09:07	0° Y			9568 Mar 30 06:43	0° Y	
desc. node	9567 Apr 10 04:39	5° Y 13'25		morning set	9568 Apr 05 23:06	10° Y 15'10	
	9567 Apr 26 20:25	0° B			9568 Apr 18 15:26	0° B	
morning set	9567 Apr 27 23:30	1° B 44'35		max. Earth dist.	9568 Apr 18 21:04	0° B 22'11	1.44965 AU
max. Earth dist.	9567 May 07 06:49	16° B 24'20	1.43675 AU				
				superior conj	9568 Apr 22 11:53	6° B 06'02	-2°11'03
superior conj	9567 May 13 12:48	26° B 36'04	-2°09'15	minimum elong	9568 Apr 22 08:55	5° B 54'15	2°11'11
minimum elong	9567 May 13 16:25	26° B 51'05	2°09'24	evening rise	9568 May 06 18:17	29° B 19'42	
	9567 May 15 13:46	0° II			9568 May 07 03:59	0° II	
evening rise	9567 May 26 01:31	17° II 59'46		asc. node	9568 May 19 19:55	20° II 28'16	
	9567 Jun 01 23:57	0° E		evening max el	9568 May 25 19:00	28° II 01'50	18°18'34
asc. node	9567 Jun 02 22:51	1° E 35'54			9568 May 28 02:49	0° E	
evening max el	9567 Jun 12 05:37	14° E 35'47	18°05'15	retrograde	9568 Jun 01 04:25	1° E 26'42	
retrograde	9567 Jun 18 16:41	17° E 56'41		evening set	9568 Jun 04 04:30	0° E 37'36	
evening set	9567 Jun 21 09:15	17° E 21'01			9568 Jun 05 04:44	30° R II	
inferior conj	9567 Jun 27 18:27	12° E 13'36	2°27'50	inferior conj	9568 Jun 10 02:07	25° II 12'31	3°02'16
minimum elong	9567 Jun 27 21:16	12° E 06'24	2°26'49	minimum elong	9568 Jun 10 04:02	25° II 06'59	3°01'39
min. Earth dist.	9567 Jun 30 18:00	9° E 11'15	0.61959 AU	min. Earth dist.	9568 Jun 12 12:10	22° II 26'40	0.64057 AU
morning rise	9567 Jul 04 07:11	6° E 08'45		morning rise	9568 Jun 16 02:21	18° II 56'51	
desc. node	9567 Jul 07 04:18	4° E 32'06		direct	9568 Jun 22 18:54	16° II 16'58	
direct	9567 Jul 11 00:07	3° E 46'06		desc. node	9568 Jun 23 01:22	16° II 17'12	
morning max el	9567 Jul 25 04:11	11° E 47'44	27°56'34	morning max el	9568 Jul 06 13:39	24° II 18'32	27°35'19
	9567 Aug 08 13:07	0° O			9568 Jul 11 16:40	0° E	
	9567 Aug 25 19:18	0° M			9568 Jul 31 22:50	0° O	
morning set	9567 Aug 27 21:04	4° M 10'44		morning set	9568 Aug 10 14:19	17° O 53'05	
asc. node	9567 Aug 29 22:31	8° M 26'51		max. Earth dist.	9568 Aug 15 10:32	27° O 44'54	1.32875 AU
max. Earth dist.	9567 Sep 02 10:34	15° M 55'43	1.31974 AU	asc. node	9568 Aug 15 19:25	28° O 31'24	
					9568 Aug 16 12:14	0° M	
superior conj	9567 Sep 04 08:41	20° M 07'28	0°52'13				
minimum elong	9567 Sep 04 06:38	19° M 56'13	0°51'46	superior conj	9568 Aug 18 14:33	4° M 27'58	0°27'43
	9567 Sep 08 20:30	0° E		minimum elong	9568 Aug 18 13:15	4° M 20'59	0°27'17
evening rise	9567 Sep 11 03:43	4° E 59'30		evening rise	9568 Aug 25 15:09	19° M 36'56	
	9567 Sep 24 06:49	0° M			9568 Aug 30 16:11	0° E	
desc. node	9567 Oct 03 02:38	12° M 11'18		evening max el	9568 Sep 16 20:09	25° E 47'54	22°48'10
evening max el	9567 Oct 06 09:13	15° M 38'24	24°28'02	desc. node	9568 Sep 18 23:48	27° E 44'16	
retrograde	9567 Oct 20 03:17	22° M 32'32			9568 Sep 22 03:44	0° M	
evening set	9567 Oct 25 08:07	21° M 32'34		retrograde	9568 Sep 30 00:53	2° M 22'55	
min. Earth dist.	9567 Oct 30 20:08	18° M 43'14	0.56423 AU	evening set	9568 Oct 03 17:43	1° M 52'53	
inferior conj	9567 Nov 02 08:28	17° M 08'30	-5°36'17		9568 Oct 08 11:11	30° R E	
minimum elong	9567 Nov 02 11:42	17° M 03'24	5°35'49	min. Earth dist.	9568 Oct 11 04:21	28° E 31'24	0.55115 AU
morning rise	9567 Nov 10 17:26	13° M 06'24		inferior conj	9568 Oct 12 11:23	27° E 46'59	-5°32'47
direct	9567 Nov 13 07:20	12° M 48'32		minimum elong	9568 Oct 12 06:49	27° E 53'32	5°32'12
morning max el	9567 Nov 23 01:03	17° M 25'41	19°36'20	morning rise	9568 Oct 20 21:48	23° E 58'25	
asc. node	9567 Nov 25 22:33	20° M 34'31		direct	9568 Oct 24 00:43	23° E 35'53	
	9567 Dec 02 07:22	0° A		morning max el	9568 Nov 04 08:08	28° E 54'49	20°56'27
morning set	9567 Dec 10 11:34	15° A 31'14			9568 Nov 05 10:40	0° M	
	9567 Dec 17 16:15	0° B		asc. node	9568 Nov 11 19:30	8° M 05'40	
				morning set	9568 Nov 23 19:35	0° A 13'39	
					9568 Nov 23 16:57	0° A	
superior conj	9567 Dec 18 09:51	1° B 26'54	1°20'27				
minimum elong	9567 Dec 18 12:41	1° B 40'49	1°20'29				
max. Earth dist.	9567 Dec 24 15:57	13° B 23'46	1.37703 AU	superior conj	9568 Dec 01 04:33	15° A 35'02	1°33'51
evening rise	9567 Dec 28 09:12	20° B 07'22		minimum elong	9568 Dec 01 06:19	15° A 44'07	1°34'03
desc. node	9567 Dec 30 01:22	23° B 03'28		max. Earth dist.	9568 Dec 06 00:40	25° A 18'43	1.35667 AU

	9568 Dec 08 10:55	0°♄		asc. node	9569 Oct 29 16:26	26°♄24'39	
evening rise	9568 Dec 10 00:43	2°♄58'00			9569 Oct 31 17:02	0°♄	
desc. node	9568 Dec 15 22:21	13°♄33'28		morning set	9569 Nov 08 06:25	15°♄01'43	
	9568 Dec 26 02:56	0°♄					
evening max el	9569 Jan 14 11:33	24°♄35'08	26°20'49	superior conj	9569 Nov 15 07:11	0°♄04'36	1°39'57
	9569 Jan 21 08:03	0°♄		minimum elong	9569 Nov 15 07:42	0°♄07'19	1°40'14
retrograde	9569 Jan 27 07:56	1°♄51'06			9569 Nov 15 06:19	0°♄	
	9569 Feb 01 17:14	30°♄		max. Earth dist.	9569 Nov 18 16:42	7°♄12'40	1.33964 AU
evening set	9569 Feb 02 14:49	29°♄18'57		evening rise	9569 Nov 23 06:53	16°♄27'12	
min. Earth dist.	9569 Feb 06 18:34	24°♄59'59	0.66643 AU		9569 Nov 30 14:07	0°♄	
asc. node	9569 Feb 07 18:38	23°♄46'57		desc. node	9569 Dec 02 19:22	3°♄50'00	
inferior conj	9569 Feb 08 11:39	22°♄54'53	0°14'01		9569 Dec 20 14:22	0°♄	
minimum elong	9569 Feb 08 11:16	22°♄56'02	0°14'06	evening max el	9569 Dec 28 00:55	8°♄12'04	27°07'55
transit middle	9569 Feb 08 11:16	22°♄56'02	0°14'06	retrograde	9570 Jan 10 10:14	15°♄33'48	
transit begin	9569 Feb 08 09:53	23°♄00'15		evening set	9570 Jan 17 03:18	12°♄59'04	
transit end	9569 Feb 08 12:39	22°♄51'49		min. Earth dist.	9570 Jan 21 01:38	9°♄13'42	0.65249 AU
morning rise	9569 Feb 14 08:33	17°♄10'11		inferior conj	9570 Jan 23 06:20	6°♄46'09	-0°47'52
direct	9569 Feb 17 10:02	16°♄17'17		minimum elong	9570 Jan 23 07:45	6°♄42'12	0°46'58
morning max el	9569 Feb 24 00:10	19°♄50'13	18°33'00	asc. node	9570 Jan 25 15:45	4°♄11'58	
	9569 Mar 03 23:28	0°♄		morning rise	9570 Jan 29 13:35	1°♄13'37	
desc. node	9569 Mar 13 22:19	15°♄21'10		direct	9570 Feb 01 05:56	0°♄35'11	
morning set	9569 Mar 16 17:24	19°♄45'51		morning max el	9570 Feb 07 15:45	3°♄58'02	18°01'52
	9569 Mar 23 05:20	0°♄			9570 Feb 25 06:06	0°♄	
				morning set	9570 Feb 25 17:01	0°♄44'49	
superior conj	9569 Apr 01 19:09	14°♄59'59	-1°52'40	desc. node	9570 Feb 28 19:09	5°♄48'31	
minimum elong	9569 Apr 01 10:12	14°♄25'01	1°52'02				
max. Earth dist.	9569 Apr 01 15:05	14°♄44'06	1.45564 AU	superior conj	9570 Mar 12 04:08	24°♄05'54	-1°17'08
	9569 Apr 11 08:33	0°♄		minimum elong	9570 Mar 11 19:40	23°♄32'26	1°16'03
evening rise	9569 Apr 17 11:08	9°♄40'08		max. Earth dist.	9570 Mar 15 10:50	29°♄15'54	1.45425 AU
greatest brilliancy	9569 Apr 26 03:57	23°♄27'52	-0.8m		9570 Mar 15 22:04	0°♄	
	9569 Apr 30 09:43	0°♄		evening rise	9570 Mar 28 07:31	19°♄15'08	
asc. node	9569 May 06 17:02	8°♄45'53			9570 Apr 04 07:18	0°♄	
evening max el	9569 May 09 06:05	11°♄37'06	18°49'48	greatest brilliancy	9570 Apr 10 19:56	9°♄51'30	-0.7m
retrograde	9569 May 15 22:36	15°♄18'46		evening max el	9570 Apr 22 12:52	25°♄16'59	19°37'40
evening set	9569 May 19 06:29	14°♄15'01		asc. node	9570 Apr 23 14:10	26°♄17'57	
inferior conj	9569 May 24 20:15	8°♄33'55	3°18'03	retrograde	9570 Apr 29 20:12	29°♄26'48	
minimum elong	9569 May 24 20:57	8°♄31'46	3°17'42	evening set	9570 May 03 12:34	28°♄07'42	
min. Earth dist.	9569 May 26 15:12	6°♄19'58	0.65826 AU	inferior conj	9570 May 08 21:41	22°♄12'01	3°18'59
morning rise	9569 May 30 10:45	2°♄14'24		minimum elong	9570 May 08 21:11	22°♄13'39	3°18'42
	9569 Jun 03 01:01	30°♄		min. Earth dist.	9570 May 10 01:41	20°♄39'06	0.67173 AU
direct	9569 Jun 05 21:12	29°♄28'53		morning rise	9570 May 14 05:28	15°♄52'55	
	9569 Jun 08 21:28	0°♄		direct	9570 May 20 05:43	13°♄12'54	
desc. node	9569 Jun 09 22:23	0°♄23'51		desc. node	9570 May 27 19:22	16°♄23'25	
morning max el	9569 Jun 19 00:14	7°♄16'41	26°42'52	morning max el	9570 Jun 01 10:08	20°♄31'03	25°28'08
	9569 Jul 06 14:20	0°♄			9570 Jun 09 13:40	0°♄	
	9569 Jul 24 07:37	0°♄			9570 Jun 29 18:23	0°♄	
morning set	9569 Jul 24 20:39	1°♄01'39		morning set	9570 Jul 07 12:02	13°♄25'59	
max. Earth dist.	9569 Jul 29 00:25	9°♄06'58	1.34277 AU	max. Earth dist.	9570 Jul 11 03:55	20°♄11'44	1.36138 AU
					9570 Jul 16 05:43	0°♄	
superior conj	9569 Aug 02 14:21	18°♄26'51	-0°00'50				
minimum elong	9569 Aug 02 14:24	18°♄27'08	0°01'05	superior conj	9570 Jul 17 05:18	1°♄57'08	-0°32'21
behind sun begin	9569 Aug 02 08:38	17°♄57'12		minimum elong	9570 Jul 17 07:18	2°♄07'03	0°32'16
behind sun end	9569 Aug 02 20:10	18°♄57'06		asc. node	9570 Jul 20 13:15	8°♄40'22	
asc. node	9569 Aug 02 16:20	18°♄37'10		evening rise	9570 Jul 25 07:00	18°♄21'35	
	9569 Aug 08 02:08	0°♄			9570 Jul 31 04:54	0°♄	
evening rise	9569 Aug 10 00:58	4°♄06'09		evening max el	9570 Aug 11 20:29	17°♄09'44	19°55'42
	9569 Aug 24 09:20	0°♄		retrograde	9570 Aug 22 03:44	22°♄15'46	
evening max el	9569 Aug 29 13:53	6°♄09'17	21°13'41	desc. node	9570 Aug 23 18:10	22°♄08'54	
desc. node	9569 Sep 05 20:58	11°♄11'40		evening set	9570 Aug 24 01:02	22°♄06'16	
retrograde	9569 Sep 10 13:23	12°♄05'42		inferior conj	9570 Sep 02 00:28	18°♄05'57	-2°49'00
evening set	9569 Sep 12 23:45	11°♄51'58		minimum elong	9570 Sep 01 16:54	18°♄17'27	2°46'22
inferior conj	9569 Sep 22 04:00	7°♄55'47	-4°32'45	min. Earth dist.	9570 Sep 03 22:41	16°♄55'57	0.55119 AU
minimum elong	9569 Sep 21 18:21	8°♄09'21	4°30'17	morning rise	9570 Sep 10 07:11	13°♄49'50	
min. Earth dist.	9569 Sep 22 12:31	7°♄43'47	0.54636 AU	direct	9570 Sep 14 21:40	13°♄03'32	
morning rise	9569 Sep 30 13:29	4°♄03'22		morning max el	9570 Sep 28 14:58	19°♄49'27	24°22'05
direct	9569 Oct 04 09:06	3°♄31'57			9570 Oct 07 05:33	0°♄	
morning max el	9569 Oct 17 02:54	9°♄36'38	22°35'15	asc. node	9570 Oct 16 13:20	15°♄19'38	

morning set	9570 Oct 23 18:11	29° Ω 49'50			9571 Sep 30 23:48	0° Ω	
	9570 Oct 23 20:05	0° \mathbb{M}		asc. node	9571 Oct 03 10:13	4° Ω 41'34	
				morning set	9571 Oct 08 05:16	14° Ω 33'39	
superior conj	9570 Oct 30 15:00	14° \mathbb{M} 46'45	1°39'31				
minimum elong	9570 Oct 30 14:21	14° \mathbb{M} 43'10	1°39'44	superior conj	9571 Oct 15 01:49	29° Ω 35'15	1°33'09
max. Earth dist.	9570 Nov 01 17:01	19° \mathbb{M} 18'06	1.32693 AU	minimum elong	9571 Oct 15 00:14	29° Ω 26'34	1°33'11
	9570 Nov 06 19:14	0° \mathbb{A}			9571 Oct 15 06:17	0° \mathbb{M}	
evening rise	9570 Nov 07 00:07	0° \mathbb{A} 24'52		max. Earth dist.	9571 Oct 15 23:41	1° \mathbb{M} 36'12	1.31885 AU
desc. node	9570 Nov 19 16:26	23° \mathbb{A} 46'06		evening rise	9571 Oct 22 01:26	14° \mathbb{M} 43'16	
	9570 Nov 23 14:17	0° \mathbb{B}			9571 Oct 29 19:39	0° \mathbb{A}	
evening max el	9570 Dec 10 12:55	21° \mathbb{B} 26'35	27°29'34	desc. node	9571 Nov 06 13:35	13° \mathbb{A} 13'23	
retrograde	9570 Dec 24 05:41	28° \mathbb{B} 46'02			9571 Nov 18 22:25	0° \mathbb{B}	
evening set	9570 Dec 31 05:39	26° \mathbb{B} 16'01		evening max el	9571 Nov 22 21:08	4° \mathbb{B} 05'20	27°19'53
min. Earth dist.	9571 Jan 03 23:50	23° \mathbb{B} 01'48	0.63532 AU	retrograde	9571 Dec 06 17:36	11° \mathbb{B} 18'59	
inferior conj	9571 Jan 06 15:38	20° \mathbb{B} 20'47	-1°56'42	evening set	9571 Dec 13 18:40	9° \mathbb{B} 02'37	
minimum elong	9571 Jan 06 19:22	20° \mathbb{B} 11'20	1°54'51	min. Earth dist.	9571 Dec 17 11:32	6° \mathbb{B} 13'32	0.61560 AU
asc. node	9571 Jan 12 12:51	15° \mathbb{B} 28'35		inferior conj	9571 Dec 20 12:25	3° \mathbb{B} 30'48	-3°09'35
morning rise	9571 Jan 13 11:03	15° \mathbb{B} 03'35		minimum elong	9571 Dec 20 18:36	3° \mathbb{B} 16'56	3°07'01
direct	9571 Jan 15 20:24	14° \mathbb{B} 35'49			9571 Dec 24 21:14	30° \mathbb{R} \mathbb{A}	
morning max el	9571 Jan 22 09:14	17° \mathbb{B} 58'22	17°48'01	morning rise	9571 Dec 27 20:56	28° \mathbb{A} 32'21	
	9571 Jan 31 03:12	0° \approx		direct	9571 Dec 30 01:53	28° \mathbb{A} 11'39	
morning set	9571 Feb 07 19:24	13° \approx 01'23		asc. node	9571 Dec 30 09:55	28° \mathbb{A} 12'09	
desc. node	9571 Feb 15 15:59	26° \approx 24'54			9572 Jan 04 01:06	0° \mathbb{B}	
	9571 Feb 17 19:34	0° \mathbb{H}		morning max el	9572 Jan 06 01:27	1° \mathbb{B} 43'11	17°52'13
				morning set	9572 Jan 21 18:05	26° \mathbb{B} 15'09	
					9572 Jan 23 19:50	0° \approx	
superior conj	9571 Feb 20 07:30	4° \mathbb{H} 07'00	-0°33'55				
minimum elong	9571 Feb 20 03:52	3° \mathbb{H} 52'05	0°33'12	superior conj	9572 Feb 01 12:07	15° \approx 20'32	0°07'46
max. Earth dist.	9571 Feb 26 05:37	13° \mathbb{H} 40'36	1.44562 AU	minimum elong	9572 Feb 01 12:50	15° \approx 23'37	0°07'55
evening rise	9571 Mar 07 18:54	28° \mathbb{H} 36'10		behind sun begin	9572 Feb 01 05:26	14° \approx 51'44	
	9571 Mar 08 16:46	0° \mathbb{Y}		behind sun end	9572 Feb 01 20:14	15° \approx 55'25	
	9571 Mar 29 03:55	0° \mathbb{B}		desc. node	9572 Feb 02 12:53	17° \approx 06'38	
evening max el	9571 Apr 05 14:09	8° \mathbb{B} 58'11	20°40'01	max. Earth dist.	9572 Feb 08 20:44	27° \approx 40'50	1.43068 AU
asc. node	9571 Apr 10 11:20	12° \mathbb{B} 50'45			9572 Feb 10 06:57	0° \mathbb{H}	
retrograde	9571 Apr 13 18:51	13° \mathbb{B} 45'17		evening rise	9572 Feb 15 12:35	8° \mathbb{H} 20'20	
evening set	9571 Apr 17 20:36	12° \mathbb{B} 10'36			9572 Feb 29 21:38	0° \mathbb{Y}	
inferior conj	9571 Apr 23 03:43	6° \mathbb{B} 02'02	3°07'47	evening max el	9572 Mar 18 09:59	22° \mathbb{Y} 40'12	21°53'21
minimum elong	9571 Apr 23 02:17	6° \mathbb{B} 06'57	3°07'24	asc. node	9572 Mar 27 08:31	28° \mathbb{Y} 08'58	
min. Earth dist.	9571 Apr 23 17:45	5° \mathbb{B} 13'46	0.68062 AU	retrograde	9572 Mar 27 16:41	28° \mathbb{Y} 09'32	
morning rise	9571 Apr 28 07:46	29° \mathbb{Y} 45'44		evening set	9572 Apr 01 04:51	26° \mathbb{Y} 19'32	
	9571 Apr 28 01:35	30° \mathbb{R} \mathbb{Y}		inferior conj	9572 Apr 06 12:10	20° \mathbb{Y} 00'29	2°46'08
direct	9571 May 03 19:18	27° \mathbb{Y} 19'52		minimum elong	9572 Apr 06 10:09	20° \mathbb{Y} 07'32	2°45'35
	9571 May 10 09:16	0° \mathbb{B}		min. Earth dist.	9572 Apr 06 13:16	19° \mathbb{Y} 56'37	0.68498 AU
desc. node	9571 May 14 16:18	3° \mathbb{B} 46'34		morning rise	9572 Apr 11 15:17	13° \mathbb{Y} 48'25	
morning max el	9571 May 14 19:28	3° \mathbb{B} 54'32	24°01'07	direct	9572 Apr 16 13:06	11° \mathbb{Y} 42'02	
	9571 Jun 03 19:06	0° \mathbb{H}		morning max el	9572 Apr 26 06:23	17° \mathbb{Y} 25'45	22°31'30
morning set	9571 Jun 19 07:30	24° \mathbb{H} 53'11		desc. node	9572 Apr 30 13:13	22° \mathbb{Y} 10'26	
	9571 Jun 22 05:55	0° \mathbb{B}			9572 May 06 15:57	0° \mathbb{B}	
max. Earth dist.	9571 Jun 23 01:20	1° \mathbb{B} 26'07	1.38316 AU		9572 May 26 21:06	0° \mathbb{H}	
				morning set	9572 May 30 01:50	5° \mathbb{H} 09'54	
superior conj	9571 Jun 30 07:59	14° \mathbb{B} 50'11	-1°05'03	max. Earth dist.	9572 Jun 03 23:06	13° \mathbb{H} 17'49	1.40582 AU
minimum elong	9571 Jun 30 12:12	15° \mathbb{B} 10'12	1°04'41				
asc. node	9571 Jul 07 10:14	28° \mathbb{B} 37'23		superior conj	9572 Jun 11 18:04	26° \mathbb{H} 54'56	-1°35'57
	9571 Jul 08 03:00	0° \mathbb{Q}		minimum elong	9572 Jun 12 00:01	27° \mathbb{H} 21'46	1°35'34
evening rise	9571 Jul 09 06:40	2° \mathbb{Q} 16'11			9572 Jun 13 10:54	0° \mathbb{B}	
evening max el	9571 Jul 25 16:06	28° \mathbb{Q} 56'21	18°58'30	evening rise	9572 Jun 21 20:37	15° \mathbb{B} 40'18	
	9571 Jul 26 19:33	0° \mathbb{M}		asc. node	9572 Jun 23 07:14	18° \mathbb{B} 23'12	
retrograde	9571 Aug 03 08:36	3° \mathbb{M} 15'26			9572 Jun 29 17:08	0° \mathbb{Q}	
evening set	9571 Aug 05 06:28	3° \mathbb{M} 03'43		evening max el	9572 Jul 07 21:31	11° \mathbb{Q} 22'33	18°22'13
desc. node	9571 Aug 10 15:21	0° \mathbb{M} 44'37		retrograde	9572 Jul 15 08:26	15° \mathbb{Q} 07'00	
	9571 Aug 11 19:14	30° \mathbb{R} \mathbb{Q}		evening set	9572 Jul 17 12:42	14° \mathbb{Q} 48'39	
inferior conj	9571 Aug 13 13:31	28° \mathbb{Q} 47'35	-0°54'10	inferior conj	9572 Jul 25 00:09	10° \mathbb{Q} 12'36	0°44'53
minimum elong	9571 Aug 13 11:13	28° \mathbb{Q} 51'38	0°53'27	minimum elong	9572 Jul 25 01:41	10° \mathbb{Q} 09'28	0°44'02
min. Earth dist.	9571 Aug 16 12:50	26° \mathbb{Q} 43'33	0.56467 AU	desc. node	9572 Jul 27 12:31	8° \mathbb{Q} 08'35	
morning rise	9571 Aug 21 12:47	23° \mathbb{Q} 55'01		min. Earth dist.	9572 Jul 28 08:58	7° \mathbb{Q} 28'04	0.58426 AU
direct	9571 Aug 26 22:39	22° \mathbb{Q} 45'52		morning rise	9572 Aug 01 11:12	4° \mathbb{Q} 44'10	
morning max el	9571 Sep 10 04:12	0° \mathbb{M} 04'49	26°00'28	direct	9572 Aug 07 14:05	3° \mathbb{Q} 05'22	
	9571 Sep 10 02:11	0° \mathbb{M}					

morning max el	9572 Aug 21 23:23	10°Ω48'38	27°13'58		9573 Aug 10 21:17	0°Ω	
	9572 Sep 05 20:12	0°Π			9573 Aug 29 23:00	0°Π	
asc. node	9572 Sep 19 07:07	24°Π22'22		morning set	9573 Sep 05 18:24	13°Π26'13	
morning set	9572 Sep 21 13:57	29°Π07'29		asc. node	9573 Sep 06 04:01	14°Π16'16	
	9572 Sep 21 23:51	0°Ω		max. Earth dist.	9573 Sep 11 18:03	26°Π16'41	1.31679 AU
superior conj	9572 Sep 28 13:37	14°Ω23'14	1°21'17	superior conj	9573 Sep 13 00:37	29°Π05'17	1°04'15
minimum elong	9572 Sep 28 11:30	14°Ω11'27	1°21'05	minimum elong	9573 Sep 12 22:24	28°Π52'59	1°03'51
max. Earth dist.	9572 Sep 28 09:16	13°Ω59'03	1.31545 AU		9573 Sep 13 10:31	0°Ω	
evening rise	9572 Oct 05 08:12	29°Ω14'40		evening rise	9573 Sep 19 18:18	13°Ω53'07	
	9572 Oct 05 16:44	0°Π			9573 Sep 27 18:12	0°Π	
	9572 Oct 22 02:28	0°♂		desc. node	9573 Oct 10 07:55	19°Π49'40	
desc. node	9572 Oct 23 10:45	1°♂59'51		evening max el	9573 Oct 16 16:32	26°Π57'21	25°21'21
evening max el	9572 Nov 03 22:49	15°♂56'41	26°36'13		9573 Oct 20 06:48	0°♂	
retrograde	9572 Nov 17 21:00	23°♂04'03		retrograde	9573 Oct 30 13:59	3°♂57'25	
evening set	9572 Nov 24 14:12	21°♂11'43		evening set	9573 Nov 05 11:26	2°♂37'50	
min. Earth dist.	9572 Nov 28 12:37	18°♂36'04	0.59453 AU	min. Earth dist.	9573 Nov 10 04:40	29°Π58'36	0.57431 AU
inferior conj	9572 Dec 01 17:09	16°♂06'46	-4°20'19		9573 Nov 10 03:49	30°♂Π	
minimum elong	9572 Dec 02 00:50	15°♂51'44	4°17'52	inferior conj	9573 Nov 13 02:42	27°Π59'49	-5°17'04
morning rise	9572 Dec 09 14:02	11°♂29'59		minimum elong	9573 Nov 13 08:54	27°Π49'16	5°15'48
direct	9572 Dec 11 18:09	11°♂13'02		morning rise	9573 Nov 21 08:40	23°Π45'28	
asc. node	9572 Dec 16 06:57	12°♂31'09		direct	9573 Nov 23 17:08	23°Π28'56	
morning max el	9572 Dec 19 12:53	15°♂02'52	18°15'48	morning max el	9573 Dec 02 15:41	27°Π46'39	19°00'28
	9572 Dec 29 20:09	0°♂		asc. node	9573 Dec 03 03:58	28°Π16'57	
morning set	9573 Jan 04 07:11	10°♂08'34			9573 Dec 04 17:42	0°♂	
				morning set	9573 Dec 19 06:09	24°♂28'16	
superior conj	9573 Jan 13 16:12	27°♂40'30	0°42'40		9573 Dec 22 01:13	0°♂	
minimum elong	9573 Jan 13 19:05	27°♂53'32	0°42'33				
	9573 Jan 14 23:05	0°≈		superior conj	9573 Dec 27 14:56	10°♂52'39	1°09'06
desc. node	9573 Jan 19 09:48	7°≈50'11		minimum elong	9573 Dec 27 18:07	11°♂07'51	1°09'02
max. Earth dist.	9573 Jan 21 06:39	11°≈02'18	1.41117 AU	max. Earth dist.	9574 Jan 03 12:48	23°♂41'05	1.38948 AU
evening rise	9573 Jan 25 23:59	18°≈54'03		desc. node	9574 Jan 06 06:44	28°♂31'34	
	9573 Feb 01 23:53	0°♂		evening rise	9574 Jan 07 09:03	0°≈25'13	
	9573 Feb 23 08:26	0°♀			9574 Jan 07 03:11	0°≈	
evening max el	9573 Mar 01 01:43	6°♀24'41	23°12'53		9574 Jan 26 07:58	0°♂	
retrograde	9573 Mar 11 12:09	12°♀35'07		evening max el	9574 Feb 11 15:26	20°♂12'20	24°32'30
asc. node	9573 Mar 14 05:40	11°♀58'48		retrograde	9574 Feb 23 03:53	26°♂56'22	
evening set	9573 Mar 16 11:43	10°♀30'40		evening set	9574 Feb 28 15:39	24°♂38'59	
inferior conj	9573 Mar 21 21:04	4°♀04'24	2°15'01	asc. node	9574 Mar 01 02:50	24°♂14'12	
minimum elong	9573 Mar 21 18:51	4°♀12'04	2°14'22	min. Earth dist.	9574 Mar 05 05:55	19°♂25'21	0.68087 AU
min. Earth dist.	9573 Mar 21 10:06	4°♀42'17	0.68498 AU	inferior conj	9574 Mar 06 04:33	18°♂09'43	1°34'53
	9573 Mar 25 00:23	30°♂♂		minimum elong	9574 Mar 06 02:36	18°♂16'13	1°34'18
morning rise	9573 Mar 27 01:55	27°♂57'50		morning rise	9574 Mar 11 13:41	12°♂10'07	
direct	9573 Mar 31 10:06	26°♂13'14		direct	9574 Mar 15 09:01	10°♂47'12	
	9573 Apr 07 18:03	0°♀		morning max el	9574 Mar 22 21:13	14°♂59'44	19°55'39
morning max el	9573 Apr 08 22:09	1°♀07'07	21°07'44		9574 Apr 03 14:49	0°♀	
desc. node	9573 Apr 17 10:05	11°♀18'31		desc. node	9574 Apr 04 06:55	0°♀58'14	
	9573 Apr 30 10:48	0°♂		morning set	9574 Apr 18 16:33	22°♀38'22	
morning set	9573 May 09 17:35	14°♂14'57			9574 Apr 23 10:30	0°♂	
max. Earth dist.	9573 May 17 02:14	26°♂01'34	1.42662 AU	max. Earth dist.	9574 Apr 29 12:35	9°♂35'22	1.44301 AU
	9573 May 19 12:14	0°Π					
superior conj	9573 May 24 07:00	8°Π02'11	-2°00'26	superior conj	9574 May 04 19:32	18°♂05'45	-2°12'21
minimum elong	9573 May 24 12:35	8°Π26'03	2°00'22	minimum elong	9574 May 04 20:45	18°♂10'40	2°12'35
evening rise	9573 Jun 04 20:42	28°Π24'14			9574 May 12 00:34	0°Π	
	9573 Jun 05 18:01	0°♂		evening rise	9574 May 18 02:04	10°Π16'33	
asc. node	9573 Jun 10 04:17	7°♂53'17		asc. node	9574 May 28 01:20	27°Π01'17	
evening max el	9573 Jun 21 08:51	24°♂19'33	18°05'55		9574 May 29 23:32	0°♂	
retrograde	9573 Jun 28 01:28	27°♂44'30		evening max el	9574 Jun 04 22:27	7°♂37'29	18°08'41
evening set	9573 Jun 30 13:33	27°♂15'59		retrograde	9574 Jun 11 07:32	10°♂58'03	
inferior conj	9573 Jul 07 07:18	22°♂19'53	1°57'41	evening set	9574 Jun 14 03:22	10°♂16'48	
minimum elong	9573 Jul 07 10:10	22°♂13'03	1°56'30	inferior conj	9574 Jun 20 07:11	5°♂01'52	2°44'57
min. Earth dist.	9573 Jul 10 12:49	19°♂16'58	0.60672 AU	minimum elong	9574 Jun 20 09:42	4°♂55'05	2°44'05
morning rise	9573 Jul 14 04:06	16°♂25'14		min. Earth dist.	9574 Jun 23 01:28	2°♂04'11	0.62892 AU
desc. node	9573 Jul 14 09:39	16°♂16'25			9574 Jun 25 04:56	30°♂Π	
direct	9573 Jul 20 18:11	14°♂16'29		morning rise	9574 Jun 26 14:21	28°Π51'39	
morning max el	9573 Aug 04 01:21	22°♂14'25	27°51'57	desc. node	9574 Jul 01 06:43	26°Π33'47	
				direct	9574 Jul 03 08:07	26°Π20'05	

	9574 Jul 12 09:07	0°☿		desc. node	9575 Jun 18 03:45	9°♊21'40	
morning max el	9574 Jul 17 08:34	4°☿22'45	27°51'39	morning max el	9575 Jun 29 18:43	17°♊06'11	27°16'22
	9574 Aug 05 13:31	0°♌			9575 Jul 10 12:01	0°☿	
morning set	9574 Aug 20 16:30	27°♌23'59			9575 Jul 29 10:11	0°♌	
	9574 Aug 21 23:10	0°♍		morning set	9575 Aug 04 05:31	10°♌52'58	
asc. node	9574 Aug 24 00:55	4°♍18'22		max. Earth dist.	9575 Aug 08 18:30	19°♌57'52	1.33418 AU
max. Earth dist.	9574 Aug 25 22:20	8°♍19'14	1.32298 AU	asc. node	9575 Aug 10 21:49	24°♌23'53	
superior conj	9574 Aug 28 08:58	13°♍35'46	0°42'23	superior conj	9575 Aug 12 12:34	27°♌48'02	0°16'05
minimum elong	9574 Aug 28 07:10	13°♍25'56	0°41'54	minimum elong	9575 Aug 12 11:46	27°♌43'47	0°15'42
evening rise	9574 Sep 04 05:49	28°♍33'02		behind sun begin	9575 Aug 12 10:38	27°♌37'48	
	9574 Sep 04 22:07	0°♎		behind sun end	9575 Aug 12 12:54	27°♌49'46	
	9574 Sep 21 20:22	0°♏			9575 Aug 13 13:24	0°♍	
desc. node	9574 Sep 27 05:05	6°♏21'04		evening rise	9575 Aug 19 16:50	13°♍08'06	
evening max el	9574 Sep 28 04:16	7°♏18'44	23°45'56		9575 Aug 28 05:28	0°♎	
retrograde	9574 Oct 11 18:18	14°♏05'59		evening max el	9575 Sep 09 17:02	17°♎29'02	22°06'25
evening set	9574 Oct 16 08:12	13°♏20'15		desc. node	9575 Sep 14 02:17	21°♎04'50	
min. Earth dist.	9574 Oct 22 14:36	10°♏19'11	0.55782 AU	retrograde	9575 Sep 22 10:49	23°♎49'34	
inferior conj	9574 Oct 24 16:01	9°♏05'09	-5°41'20	evening set	9575 Sep 25 13:21	23°♎28'07	
minimum elong	9574 Oct 24 16:07	9°♏05'00	5°41'08	min. Earth dist.	9575 Oct 03 22:06	19°♎48'49	0.54804 AU
morning rise	9574 Nov 02 02:01	5°♏10'00		inferior conj	9575 Oct 04 13:05	19°♎27'50	-5°14'06
direct	9574 Nov 04 21:01	4°♏50'26		minimum elong	9575 Oct 04 05:33	19°♎38'23	5°12'46
morning max el	9574 Nov 15 06:27	9°♏44'51	20°07'42	morning rise	9575 Oct 12 23:18	15°♎40'31	
asc. node	9574 Nov 20 00:57	15°♏14'33		direct	9575 Oct 16 09:16	15°♎14'41	
	9574 Nov 28 21:58	0°♐		morning max el	9575 Oct 28 07:49	20°♎52'20	21°36'38
morning set	9574 Dec 03 11:39	9°♐05'11			9575 Nov 04 21:06	0°♏	
				asc. node	9575 Nov 06 21:53	3°♏07'36	
superior conj	9574 Dec 11 03:33	24°♐44'05	1°27'04	morning set	9575 Nov 17 21:09	23°♏50'59	
minimum elong	9574 Dec 11 05:59	24°♐56'16	1°27'11		9575 Nov 20 19:11	0°♐	
	9574 Dec 13 19:14	0°♑					
max. Earth dist.	9574 Dec 16 19:36	5°♑48'43	1.36808 AU	superior conj	9575 Nov 25 02:02	9°♐02'25	1°37'17
evening rise	9574 Dec 20 14:31	12°♑49'53		minimum elong	9575 Nov 25 03:16	9°♐08'52	1°37'32
desc. node	9574 Dec 24 03:42	19°♑07'20		max. Earth dist.	9575 Nov 29 07:26	17°♐42'23	1.34900 AU
	9574 Dec 30 16:23	0°♒		evening rise	9575 Dec 03 12:44	25°♐57'54	
	9575 Jan 21 09:03	0°♓			9575 Dec 05 16:20	0°♑	
evening max el	9575 Jan 25 04:48	4°♓01'23	25°45'05	desc. node	9575 Dec 11 00:44	9°♑32'17	
retrograde	9575 Feb 06 14:53	11°♓08'11			9575 Dec 24 02:49	0°♒	
evening set	9575 Feb 12 15:03	8°♓40'23		evening max el	9576 Jan 07 18:10	17°♒44'35	26°43'27
asc. node	9575 Feb 15 23:58	5°♓10'38		retrograde	9576 Jan 20 20:24	25°♒03'35	
min. Earth dist.	9575 Feb 16 22:27	4°♓01'35	0.67284 AU	evening set	9576 Jan 27 08:06	22°♒29'28	
inferior conj	9575 Feb 18 08:43	2°♓13'02	0°46'02	min. Earth dist.	9576 Jan 31 09:27	18°♒25'12	0.66098 AU
minimum elong	9575 Feb 18 07:36	2°♓16'36	0°45'47	inferior conj	9576 Feb 02 07:31	16°♒09'39	-0°11'16
	9575 Feb 20 03:49	30°♒		minimum elong	9576 Feb 02 07:49	16°♒08'45	0°10'53
morning rise	9575 Feb 24 00:39	26°♒22'17		transit middle	9576 Feb 02 07:49	16°♒08'45	0°10'53
direct	9575 Feb 27 08:18	25°♒19'09		transit begin	9576 Feb 02 05:39	16°♒15'07	
morning max el	9575 Mar 06 04:06	29°♒02'38	18°58'30	transit end	9576 Feb 02 09:58	16°♒02'24	
	9575 Mar 07 02:27	0°♒		asc. node	9576 Feb 02 21:06	15°♒29'46	
greatest brilliancy	9575 Mar 20 00:37	17°♒45'38	-0.8m	morning rise	9576 Feb 08 08:34	10°♒29'57	
desc. node	9575 Mar 22 03:45	21°♒01'14		direct	9576 Feb 11 06:01	9°♒43'36	
	9575 Mar 27 23:07	0°♓		morning max el	9576 Feb 17 17:16	13°♒10'32	18°17'44
morning set	9575 Mar 28 21:43	1°♓27'42			9576 Feb 29 22:01	0°♓	
max. Earth dist.	9575 Apr 12 05:05	23°♓46'28	1.45314 AU	morning set	9576 Mar 08 04:09	11°♓35'19	
				desc. node	9576 Mar 08 00:35	11°♓21'00	
					9576 Mar 19 18:08	0°♓	
superior conj	9575 Apr 14 10:10	27°♓15'11	-2°05'45				
minimum elong	9575 Apr 14 04:07	26°♓51'24	2°05'36	superior conj	9576 Mar 23 15:39	6°♓07'04	-1°39'11
	9575 Apr 16 03:57	0°♈		minimum elong	9576 Mar 23 06:04	5°♓29'30	1°38'17
evening rise	9575 Apr 29 08:38	21°♈10'16		max. Earth dist.	9576 Mar 25 00:36	8°♓16'01	1.45594 AU
	9575 May 04 18:47	0°♉			9576 Apr 07 22:21	0°♈	
asc. node	9575 May 14 22:25	15°♉39'48		evening rise	9576 Apr 08 15:55	1°♈08'46	
evening max el	9575 May 19 11:11	21°♉08'14	18°29'45	greatest brilliancy	9576 Apr 19 13:36	18°♈06'58	-0.8m
retrograde	9575 May 25 22:25	24°♉38'24			9576 Apr 27 19:04	0°♉	
evening set	9575 May 29 01:53	23°♉42'59					
inferior conj	9575 Jun 03 19:43	18°♉10'48	3°10'59	asc. node	9576 Apr 30 19:32	3°♉39'30	
minimum elong	9575 Jun 03 21:08	18°♉06'34	3°10'29	evening max el	9576 May 01 20:35	4°♉45'42	19°08'14
min. Earth dist.	9575 Jun 05 23:19	15°♉37'20	0.64860 AU	retrograde	9576 May 08 18:31	8°♉38'15	
morning rise	9575 Jun 09 15:28	11°♉53'04		evening set	9576 May 12 05:56	7°♉27'54	
direct	9575 Jun 16 06:05	9°♉09'36		inferior conj	9576 May 17 17:19	1°♉40'08	3°20'06

minimum elong	9576 May 17 17:29	1° Π 39'36	3°19'48	greatest brilliancy	9577 Apr 03 03:58	2° \mathcal{B} 59'03	-0.6m
min. Earth dist.	9576 May 19 05:44	29° \mathcal{B} 43'08	0.66445 AU	evening max el	9577 Apr 15 00:59	18° \mathcal{B} 25'33	20°02'39
	9576 May 19 00:26	30° \mathcal{R} \mathcal{B}		asc. node	9577 Apr 17 16:41	20° \mathcal{B} 47'52	
morning rise	9576 May 23 04:35	25° \mathcal{B} 20'22		retrograde	9577 Apr 22 16:55	22° \mathcal{B} 50'53	
direct	9576 May 29 10:56	22° \mathcal{B} 36'16		evening set	9577 Apr 26 13:04	21° \mathcal{B} 25'17	
desc. node	9576 Jun 04 00:44	24° \mathcal{B} 20'09		inferior conj	9577 May 01 21:01	15° \mathcal{B} 23'44	3°15'38
morning max el	9576 Jun 11 05:23	0° Π 13'23	26°13'25	minimum elong	9577 May 01 20:05	15° \mathcal{B} 26'52	3°15'19
	9576 Jun 11 00:04	0° Π		min. Earth dist.	9577 May 02 18:57	14° \mathcal{B} 09'31	0.67596 AU
	9576 Jul 03 10:33	0° \mathcal{E}		morning rise	9577 May 07 02:48	9° \mathcal{B} 05'20	
morning set	9576 Jul 17 06:06	23° \mathcal{E} 44'45		direct	9577 May 12 21:45	6° \mathcal{B} 30'29	
	9576 Jul 20 13:13	0° \mathcal{N}		desc. node	9577 May 21 21:41	10° \mathcal{B} 58'05	
max. Earth dist.	9576 Jul 21 04:13	1° \mathcal{N} 12'45	1.35019 AU	morning max el	9577 May 24 15:03	13° \mathcal{B} 32'30	24°52'07
					9577 Jun 06 23:06	0° Π	
superior conj	9576 Jul 26 09:00	11° \mathcal{N} 35'59	-0°13'54		9577 Jun 26 06:06	0° \mathcal{E}	
minimum elong	9576 Jul 26 09:49	11° \mathcal{N} 40'09	0°14'01	morning set	9577 Jun 29 13:42	5° \mathcal{E} 46'34	
behind sun begin	9576 Jul 26 06:51	11° \mathcal{N} 24'58		max. Earth dist.	9577 Jul 03 04:12	12° \mathcal{E} 16'46	1.37029 AU
behind sun end	9576 Jul 26 12:47	11° \mathcal{N} 55'20					
asc. node	9576 Jul 27 18:45	14° \mathcal{N} 29'20		superior conj	9577 Jul 09 19:10	24° \mathcal{E} 51'10	-0°46'13
evening rise	9576 Aug 03 01:23	27° \mathcal{N} 32'54		minimum elong	9577 Jul 09 22:06	25° \mathcal{E} 05'28	0°46'00
	9576 Aug 04 05:57	0° \mathcal{N}			9577 Jul 12 09:44	0° \mathcal{N}	
evening max el	9576 Aug 21 15:44	28° \mathcal{N} 04'44	20°38'03	asc. node	9577 Jul 14 15:42	4° \mathcal{N} 30'15	
	9576 Aug 23 19:01	0° \mathcal{E}		evening rise	9577 Jul 18 05:03	11° \mathcal{N} 40'04	
desc. node	9576 Aug 30 23:27	3° \mathcal{E} 30'55			9577 Jul 28 01:00	0° \mathcal{N}	
retrograde	9576 Sep 01 22:57	3° \mathcal{E} 40'57		evening max el	9577 Aug 04 04:08	9° \mathcal{N} 24'56	19°28'49
evening set	9576 Sep 04 01:30	3° \mathcal{E} 30'05		retrograde	9577 Aug 13 18:23	14° \mathcal{N} 09'59	
	9576 Sep 12 11:01	30° \mathcal{R} \mathcal{N}		evening set	9577 Aug 15 14:32	14° \mathcal{N} 00'16	
inferior conj	9576 Sep 13 05:33	29° \mathcal{N} 33'24	-3°52'24	desc. node	9577 Aug 17 20:39	13° \mathcal{N} 23'45	
minimum elong	9576 Sep 12 20:00	29° \mathcal{N} 47'08	3°49'29	inferior conj	9577 Aug 24 07:58	9° \mathcal{N} 54'29	-1°59'45
min. Earth dist.	9576 Sep 14 06:51	28° \mathcal{N} 56'59	0.54727 AU	minimum elong	9577 Aug 24 02:34	10° \mathcal{N} 03'09	1°57'50
morning rise	9576 Sep 21 14:17	25° \mathcal{N} 33'12		min. Earth dist.	9577 Aug 26 18:50	8° \mathcal{N} 20'15	0.55596 AU
direct	9576 Sep 25 17:25	24° \mathcal{N} 56'38		morning rise	9577 Sep 01 12:06	5° \mathcal{N} 23'11	
	9576 Oct 07 11:16	0° \mathcal{E}		direct	9577 Sep 06 10:47	4° \mathcal{N} 28'05	
morning max el	9576 Oct 08 23:01	1° \mathcal{E} 19'25	23°20'35	morning max el	9577 Sep 20 10:53	11° \mathcal{N} 30'05	25°05'56
asc. node	9576 Oct 23 18:49	21° \mathcal{E} 43'11			9577 Oct 04 14:00	0° \mathcal{E}	
	9576 Oct 28 03:48	0° \mathcal{N}		asc. node	9577 Oct 10 15:45	10° \mathcal{E} 50'37	
morning set	9576 Nov 01 08:37	8° \mathcal{N} 39'54		morning set	9577 Oct 16 20:19	23° \mathcal{E} 26'54	
					9577 Oct 19 20:53	0° \mathcal{N}	
superior conj	9576 Nov 08 07:13	23° \mathcal{N} 38'31	1°40'31	superior conj	9577 Oct 23 16:36	8° \mathcal{N} 24'37	1°37'31
minimum elong	9576 Nov 08 07:13	23° \mathcal{N} 38'28	1°40'48	minimum elong	9577 Oct 23 15:31	8° \mathcal{N} 18'41	1°37'40
max. Earth dist.	9576 Nov 11 03:00	29° \mathcal{N} 39'57	1.33370 AU	max. Earth dist.	9577 Oct 25 06:10	11° \mathcal{N} 50'24	1.32290 AU
	9576 Nov 11 06:49	0° \mathcal{N}		evening rise	9577 Oct 30 21:04	23° \mathcal{N} 47'52	
evening rise	9576 Nov 16 00:02	9° \mathcal{N} 40'06			9577 Nov 02 23:00	0° \mathcal{N}	
desc. node	9576 Nov 26 21:48	29° \mathcal{N} 40'54		desc. node	9577 Nov 13 18:54	19° \mathcal{N} 26'08	
	9576 Nov 27 02:20	0° \mathcal{E}			9577 Nov 20 18:24	0° \mathcal{E}	
	9576 Dec 19 01:24	0° \approx		evening max el	9577 Dec 02 17:37	14° \mathcal{E} 13'44	27°29'30
evening max el	9576 Dec 20 06:57	1° \approx 12'30	27°20'27	retrograde	9577 Dec 16 12:43	21° \mathcal{E} 31'47	
retrograde	9577 Jan 02 19:58	8° \approx 34'30		evening set	9577 Dec 23 13:50	19° \mathcal{E} 06'19	
evening set	9577 Jan 09 16:37	6° \approx 00'24		min. Earth dist.	9577 Dec 27 06:54	16° \mathcal{E} 03'42	0.62713 AU
min. Earth dist.	9577 Jan 13 12:50	2° \approx 29'02	0.64557 AU	inferior conj	9577 Dec 30 02:58	13° \mathcal{E} 20'06	-2°27'24
inferior conj	9577 Jan 15 22:32	29° \mathcal{E} 54'12	-1°16'21	minimum elong	9577 Dec 30 07:46	13° \mathcal{E} 08'31	2°25'12
minimum elong	9577 Jan 16 00:52	29° \mathcal{E} 47'53	1°15'04	morning rise	9578 Jan 06 03:57	8° \mathcal{E} 10'32	
	9577 Jan 15 20:22	30° \mathcal{R} \mathcal{E}		asc. node	9578 Jan 06 15:19	8° \mathcal{E} 01'38	
asc. node	9577 Jan 19 18:13	26° \mathcal{E} 10'13		direct	9578 Jan 08 10:54	7° \mathcal{E} 46'21	
morning rise	9577 Jan 22 10:49	24° \mathcal{E} 28'09		morning max el	9578 Jan 15 03:32	11° \mathcal{E} 11'57	17°47'30
direct	9577 Jan 24 23:52	23° \mathcal{E} 54'49			9578 Jan 27 19:15	0° \approx	
morning max el	9577 Jan 31 10:06	27° \mathcal{E} 16'18	17°53'51	morning set	9578 Jan 31 03:41	5° \approx 52'46	
	9577 Feb 02 20:42	0° \approx		desc. node	9578 Feb 09 18:19	22° \approx 31'58	
morning set	9577 Feb 17 15:47	23° \approx 08'53					
	9577 Feb 21 18:17	0° \mathcal{H}		superior conj	9578 Feb 11 20:56	26° \approx 04'42	-0°15'40
desc. node	9577 Feb 22 21:26	1° \mathcal{H} 52'30		minimum elong	9578 Feb 11 19:22	25° \approx 58'11	0°15'12
superior conj	9577 Mar 03 06:55	15° \mathcal{H} 32'25	-0°59'06	behind sun begin	9578 Feb 11 16:26	25° \approx 45'55	
minimum elong	9577 Mar 03 00:18	15° \mathcal{H} 05'56	0°58'06	behind sun end	9578 Feb 11 22:18	26° \approx 10'27	
max. Earth dist.	9577 Mar 07 19:59	22° \mathcal{H} 45'36	1.45133 AU		9578 Feb 14 05:40	0° \mathcal{H}	
	9577 Mar 12 10:55	0° \mathcal{Y}		max. Earth dist.	9578 Feb 18 13:00	7° \mathcal{H} 00'22	1.43992 AU
evening rise	9577 Mar 19 06:35	10° \mathcal{Y} 32'25		evening rise	9578 Feb 26 18:53	19° \mathcal{H} 59'24	
	9577 Apr 01 03:12	0° \mathcal{B}			9578 Mar 05 08:33	0° \mathcal{Y}	

	9578 Mar 27 00:28	0°♄		desc. node	9579 Jan 27 15:14	13°♊15'01	
evening max el	9578 Mar 28 23:53	2°♄07'12	21°10'11	max. Earth dist.	9579 Feb 01 02:05	20°♊46'07	1.42289 AU
asc. node	9578 Apr 04 13:51	6°♄50'55		evening rise	9579 Feb 06 19:16	0°♋03'22	
retrograde	9578 Apr 06 15:24	7°♄12'10			9579 Feb 06 18:25	0°♋	
evening set	9578 Apr 10 21:22	5°♄31'09			9579 Feb 26 21:57	0°♌	
	9578 Apr 15 16:11	30°♌		evening max el	9579 Mar 11 17:55	15°♌50'48	22°26'47
inferior conj	9578 Apr 16 04:20	29°♌17'55	2°59'48	retrograde	9579 Mar 21 12:15	21°♌37'29	
minimum elong	9578 Apr 16 02:37	29°♌23'55	2°59'22	asc. node	9579 Mar 22 11:01	21°♌33'01	
min. Earth dist.	9578 Apr 16 12:50	28°♌48'25	0.68302 AU	evening set	9579 Mar 26 05:11	19°♌41'18	
morning rise	9578 Apr 21 07:38	23°♌03'05		inferior conj	9579 Mar 31 13:12	13°♌19'00	2°34'01
direct	9578 Apr 26 13:26	20°♌44'45		minimum elong	9579 Mar 31 11:02	13°♌26'31	2°33'26
morning max el	9578 May 07 00:31	26°♌58'31	23°22'40	min. Earth dist.	9579 Mar 31 09:08	13°♌33'07	0.68559 AU
desc. node	9578 May 08 18:37	28°♌49'17		morning rise	9579 Apr 05 16:44	7°♌09'12	
	9578 May 09 20:01	0°♄		direct	9579 Apr 10 08:49	5°♌11'46	
	9578 May 31 13:37	0°♄		morning max el	9579 Apr 19 12:55	10°♌33'03	21°54'39
morning set	9578 Jun 10 22:57	16°♄44'37		desc. node	9579 Apr 25 15:31	17°♌33'32	
max. Earth dist.	9578 Jun 15 00:16	23°♄40'59	1.39282 AU		9579 May 04 19:17	0°♄	
	9578 Jun 18 13:59	0°♄		morning set	9579 May 22 05:36	26°♄29'08	
					9579 May 24 09:50	0°♄	
superior conj	9578 Jun 22 15:19	7°♄24'40	-1°18'37	max. Earth dist.	9579 May 28 00:04	5°♄54'55	1.41510 AU
minimum elong	9578 Jun 22 20:23	7°♄48'18	1°18'12				
asc. node	9578 Jul 01 12:41	24°♄22'47		superior conj	9579 Jun 04 16:56	19°♄06'20	-1°47'27
evening rise	9578 Jul 02 00:58	25°♄22'09		minimum elong	9579 Jun 04 23:07	19°♄33'32	1°47'10
	9578 Jul 04 10:47	0°♄			9579 Jun 10 18:37	0°♄	
evening max el	9578 Jul 18 04:27	21°♄29'36	18°40'39	evening rise	9579 Jun 15 09:31	8°♄30'24	
retrograde	9578 Jul 26 06:49	25°♄31'41		asc. node	9579 Jun 18 09:42	14°♄02'38	
evening set	9578 Jul 28 07:11	25°♄17'35			9579 Jun 28 00:21	0°♄	
desc. node	9578 Aug 04 17:49	21°♄16'03		evening max el	9579 Jul 01 12:52	4°♄10'16	18°12'56
inferior conj	9578 Aug 05 05:56	20°♄53'29	-0°09'15	retrograde	9579 Jul 08 14:26	7°♄44'24	
minimum elong	9578 Aug 05 05:33	20°♄54'11	0°09'21	evening set	9579 Jul 10 22:08	7°♄21'58	
transit middle	9578 Aug 05 05:33	20°♄54'11	0°09'21	inferior conj	9579 Jul 18 01:37	2°♄37'01	1°19'04
transit begin	9578 Aug 05 02:35	20°♄59'45		minimum elong	9579 Jul 18 03:59	2°♄31'49	1°17'58
transit end	9578 Aug 05 08:32	20°♄48'37			9579 Jul 21 01:38	30°♌	
min. Earth dist.	9578 Aug 08 11:19	18°♄29'50	0.57245 AU	min. Earth dist.	9579 Jul 21 10:14	29°♄42'02	0.59364 AU
morning rise	9578 Aug 13 00:28	15°♄45'07		desc. node	9579 Jul 22 14:56	28°♄44'39	
direct	9578 Aug 18 18:25	14°♄23'31		morning rise	9579 Jul 25 06:42	26°♄56'27	
morning max el	9578 Sep 02 02:00	21°♄53'56	26°35'32	direct	9579 Jul 31 15:17	25°♄04'41	
	9578 Sep 09 05:09	0°♌			9579 Aug 11 18:39	0°♌	
	9578 Sep 27 08:22	0°♌		morning max el	9579 Aug 14 23:59	2°♌54'24	27°34'57
asc. node	9578 Sep 27 12:38	0°♌21'23			9579 Sep 03 18:02	0°♌	
morning set	9578 Oct 01 06:33	8°♌06'56		asc. node	9579 Sep 14 09:31	20°♌08'47	
				morning set	9579 Sep 15 13:40	22°♌35'23	
superior conj	9578 Oct 08 04:03	23°♌13'45	1°28'47		9579 Sep 19 00:39	0°♌	
minimum elong	9578 Oct 08 02:11	23°♌03'28	1°28'42	max. Earth dist.	9579 Sep 22 00:21	6°♌34'56	1.31545 AU
max. Earth dist.	9578 Oct 08 14:26	24°♌11'27	1.31683 AU				
	9578 Oct 11 05:31	0°♌		superior conj	9579 Sep 22 15:43	8°♌00'14	1°14'42
evening rise	9578 Oct 15 00:59	8°♌12'59		minimum elong	9579 Sep 22 13:30	7°♌47'53	1°14'23
	9578 Oct 26 08:47	0°♌		evening rise	9579 Sep 29 09:26	22°♌48'47	
desc. node	9578 Oct 31 16:03	8°♌37'54			9579 Oct 02 20:00	0°♌	
evening max el	9578 Nov 14 23:37	26°♌34'38	27°05'35	desc. node	9579 Oct 18 13:12	27°♌02'59	
	9578 Nov 19 02:00	0°♌			9579 Oct 20 17:52	0°♌	
retrograde	9578 Nov 28 21:13	3°♌45'14		evening max el	9579 Oct 27 22:10	8°♌05'19	26°07'48
evening set	9578 Dec 05 20:01	1°♌38'17		retrograde	9579 Nov 10 20:01	15°♌08'52	
	9578 Dec 08 05:52	30°♌		evening set	9579 Nov 17 06:36	13°♌29'42	
min. Earth dist.	9578 Dec 09 14:17	28°♌56'20	0.60668 AU	min. Earth dist.	9579 Nov 21 11:04	10°♌54'58	0.58577 AU
inferior conj	9578 Dec 12 17:25	26°♌17'31	-3°40'25	inferior conj	9579 Nov 24 14:22	8°♌36'50	-4°47'00
minimum elong	9578 Dec 13 00:27	26°♌02'37	3°37'45	minimum elong	9579 Nov 24 21:55	8°♌22'55	4°44'56
morning rise	9578 Dec 20 07:23	21°♌27'39		morning rise	9579 Dec 02 15:38	4°♌09'26	
direct	9578 Dec 22 11:26	21°♌08'57		direct	9579 Dec 04 21:04	3°♌52'57	
asc. node	9578 Dec 24 12:23	21°♌26'10		asc. node	9579 Dec 11 09:24	6°♌23'54	
morning max el	9578 Dec 29 18:08	24°♌47'24	17°59'42	morning max el	9579 Dec 13 02:18	7°♌53'08	18°32'02
	9579 Jan 03 01:05	0°♌			9579 Dec 27 06:45	0°♌	
morning set	9579 Jan 14 09:12	19°♌25'55		morning set	9579 Dec 29 02:59	3°♌32'18	
	9579 Jan 20 03:21	0°♌					
superior conj	9579 Jan 24 12:01	7°♌47'57	0°23'33	superior conj	9580 Jan 07 00:39	20°♌32'05	0°54'56
minimum elong	9579 Jan 24 13:55	7°♌56'19	0°23'32	minimum elong	9580 Jan 07 03:50	20°♌46'51	0°54'48
					9580 Jan 12 05:47	0°♌	

max. Earth dist.	9580 Jan 14 10:37	3° \approx 51'31	1.40218 AU	evening rise	9580 Dec 30 09:50	22° \approx 56'17	
desc. node	9580 Jan 14 12:09	3° \approx 58'11		desc. node	9580 Dec 31 09:07	24° \approx 37'55	
evening rise	9580 Jan 18 15:47	11° \approx 01'31			9581 Jan 03 12:35	0° \approx	
	9580 Jan 30 16:09	0° \approx			9581 Jan 23 11:56	0° \approx	
evening max el	9580 Feb 22 08:34	29° \approx 36'45	23°47'03	evening max el	9581 Feb 03 21:47	13° \approx 25'10	25°04'34
	9580 Feb 22 18:00	0° \approx		retrograde	9581 Feb 15 20:06	20° \approx 20'49	
retrograde	9580 Mar 04 06:09	6° \approx 02'04		evening set	9581 Feb 21 13:14	17° \approx 58'19	
asc. node	9580 Mar 08 08:10	4° \approx 42'34		asc. node	9581 Feb 23 05:19	16° \approx 21'45	
evening set	9580 Mar 09 10:59	3° \approx 51'40		min. Earth dist.	9581 Feb 26 00:20	12° \approx 59'39	0.67793 AU
	9580 Mar 12 23:12	30° \approx 38'38		inferior conj	9581 Feb 27 04:01	11° \approx 29'02	1°15'13
min. Earth dist.	9580 Mar 14 05:40	28° \approx 18'21	0.68382 AU	minimum elong	9581 Feb 27 02:21	11° \approx 34'30	1°14'44
inferior conj	9580 Mar 14 21:41	27° \approx 23'42	1°59'02	morning rise	9581 Mar 04 15:46	5° \approx 33'09	
minimum elong	9580 Mar 14 19:32	27° \approx 31'05	1°58'24	direct	9581 Mar 08 05:52	4° \approx 19'11	
morning rise	9580 Mar 20 04:05	21° \approx 20'11		morning max el	9581 Mar 15 10:18	8° \approx 17'57	19°29'24
direct	9580 Mar 24 06:42	19° \approx 45'00		greatest brilliancy	9581 Mar 28 03:25	24° \approx 56'33	-0.7m
morning max el	9580 Apr 01 07:40	24° \approx 19'26	20°35'22	desc. node	9581 Mar 29 09:13	26° \approx 47'07	
	9580 Apr 06 07:17	0° \approx			9581 Mar 31 12:41	0° \approx	
desc. node	9580 Apr 11 12:22	6° \approx 56'13		morning set	9581 Apr 09 10:41	13° \approx 36'46	
	9580 Apr 27 03:36	0° \approx			9581 Apr 19 23:34	0° \approx	
morning set	9580 Apr 30 12:04	5° \approx 10'06		max. Earth dist.	9581 Apr 21 20:00	2° \approx 55'04	1.44813 AU
max. Earth dist.	9580 May 09 06:52	19° \approx 03'23	1.43429 AU				
				superior conj	9581 Apr 25 22:01	9° \approx 24'33	-2°12'04
superior conj	9580 May 15 19:36	29° \approx 46'09	-2°07'25	minimum elong	9581 Apr 25 20:12	9° \approx 17'16	2°12'14
minimum elong	9580 May 15 23:53	0° \approx 04'04	2°07'31		9581 May 08 12:16	0° \approx	
	9580 May 15 22:55	0° \approx		evening rise	9581 May 09 22:23	2° \approx 22'30	
evening rise	9580 May 28 02:14	20° \approx 53'44		asc. node	9581 May 22 03:49	22° \approx 21'04	
	9580 Jun 02 07:00	0° \approx			9581 May 27 23:07	0° \approx	
asc. node	9580 Jun 04 06:44	3° \approx 24'03		evening max el	9581 May 28 15:01	0° \approx 41'03	18°15'24
evening max el	9580 Jun 14 01:29	17° \approx 16'36	18°04'46	retrograde	9581 Jun 04 00:06	4° \approx 04'25	
retrograde	9580 Jun 20 13:42	20° \approx 38'14		evening set	9581 Jun 06 23:02	3° \approx 17'27	
evening set	9580 Jun 23 05:04	20° \approx 04'32			9581 Jun 11 00:27	30° \approx 38'38	
inferior conj	9580 Jun 29 16:21	14° \approx 59'57	2°20'39	inferior conj	9581 Jun 12 22:09	27° \approx 55'02	2°58'18
minimum elong	9580 Jun 29 19:13	14° \approx 52'43	2°19'35	minimum elong	9581 Jun 13 00:15	27° \approx 49'06	2°57'36
min. Earth dist.	9580 Jul 02 17:36	11° \approx 56'44	0.61628 AU	min. Earth dist.	9581 Jun 15 10:27	25° \approx 05'26	0.63767 AU
morning rise	9580 Jul 06 07:07	8° \approx 57'18		morning rise	9581 Jun 19 00:06	21° \approx 40'27	
desc. node	9580 Jul 08 12:02	7° \approx 40'17		desc. node	9581 Jun 25 09:05	19° \approx 02'37	
direct	9580 Jul 12 23:28	6° \approx 38'01		direct	9581 Jun 25 17:10	19° \approx 02'15	
morning max el	9580 Jul 27 04:38	14° \approx 39'13	27°56'38	morning max el	9581 Jul 09 13:37	27° \approx 04'45	27°40'31
	9580 Aug 08 14:41	0° \approx			9581 Jul 12 07:29	0° \approx	
	9580 Aug 26 06:43	0° \approx			9581 Aug 02 06:54	0° \approx	
morning set	9580 Aug 29 15:41	6° \approx 45'45		morning set	9581 Aug 13 10:16	20° \approx 32'18	
asc. node	9580 Aug 31 06:24	10° \approx 06'34		asc. node	9581 Aug 18 03:19	0° \approx 10'39	
max. Earth dist.	9580 Sep 04 07:49	18° \approx 47'47	1.31880 AU		9581 Aug 18 01:17	0° \approx	
				max. Earth dist.	9581 Aug 18 08:56	0° \approx 40'10	1.32710 AU
superior conj	9580 Sep 06 01:46	22° \approx 37'30	0°55'33	superior conj	9581 Aug 21 08:21	7° \approx 00'44	0°31'43
minimum elong	9580 Sep 05 23:39	22° \approx 25'53	0°55'05	minimum elong	9581 Aug 21 06:53	6° \approx 52'54	0°31'16
	9580 Sep 09 10:04	0° \approx		evening rise	9581 Aug 28 07:50	22° \approx 06'11	
evening rise	9580 Sep 12 20:19	7° \approx 28'06			9581 Sep 01 02:48	0° \approx	
	9580 Sep 24 10:58	0° \approx		evening max el	9581 Sep 19 23:20	28° \approx 56'49	23°03'03
desc. node	9580 Oct 04 10:22	14° \approx 22'21		desc. node	9581 Sep 21 07:33	0° \approx 11'30	
evening max el	9580 Oct 08 12:30	18° \approx 45'34	24°42'20		9581 Sep 21 02:22	0° \approx	
retrograde	9580 Oct 22 07:43	25° \approx 41'46		retrograde	9581 Oct 03 07:07	5° \approx 35'41	
evening set	9580 Oct 27 17:16	24° \approx 36'40		evening set	9581 Oct 07 05:16	5° \approx 02'05	
min. Earth dist.	9580 Nov 01 23:43	21° \approx 50'35	0.56667 AU	min. Earth dist.	9581 Oct 14 08:21	1° \approx 46'18	0.55259 AU
inferior conj	9580 Nov 04 15:06	20° \approx 09'08	-5°32'32	inferior conj	9581 Oct 15 20:29	0° \approx 54'04	-5°36'54
minimum elong	9580 Nov 04 19:16	20° \approx 02'26	5°31'54	minimum elong	9581 Oct 15 17:06	0° \approx 58'57	5°36'31
morning rise	9580 Nov 12 23:29	16° \approx 04'09			9581 Oct 17 10:15	30° \approx 38'38	
direct	9580 Nov 15 11:44	15° \approx 46'48		morning rise	9581 Oct 24 06:51	27° \approx 04'14	
morning max el	9580 Nov 25 00:21	20° \approx 18'34	19°26'21	direct	9581 Oct 27 07:34	26° \approx 42'35	
asc. node	9580 Nov 27 06:23	22° \approx 42'01			9581 Nov 05 02:53	0° \approx	
	9580 Dec 02 11:59	0° \approx		morning max el	9581 Nov 07 09:26	1° \approx 55'19	20°43'13
morning set	9580 Dec 12 05:03	18° \approx 00'27		asc. node	9581 Nov 14 03:21	10° \approx 04'50	
	9580 Dec 18 04:33	0° \approx			9581 Nov 25 04:59	0° \approx	
				morning set	9581 Nov 26 12:30	2° \approx 41'37	
superior conj	9580 Dec 20 05:52	4° \approx 02'57	1°17'42				
minimum elong	9580 Dec 20 08:48	4° \approx 17'21	1°17'43	superior conj	9581 Dec 03 23:06	18° \approx 07'11	1°32'17
max. Earth dist.	9580 Dec 26 16:23	16° \approx 15'09	1.38020 AU				

minimum elong	9581 Dec 04 01:03	18°♊17'09	1°32'29		9582 Nov 16 19:44	0°♊	
max. Earth dist.	9581 Dec 09 00:21	28°♊12'22	1.35949 AU				
	9581 Dec 09 22:38	0°♊		superior conj	9582 Nov 18 00:47	2°♊34'26	1°39'27
evening rise	9581 Dec 12 22:52	5°♊40'42		minimum elong	9582 Nov 18 01:29	2°♊38'09	1°39'44
desc. node	9581 Dec 18 06:06	15°♊09'49		max. Earth dist.	9582 Nov 21 15:22	10°♊06'29	1.34195 AU
	9581 Dec 27 08:34	0°♊		evening rise	9582 Nov 26 03:10	19°♊05'14	
evening max el	9582 Jan 17 11:04	27°♊12'47	26°12'08		9582 Dec 01 23:42	0°♊	
	9582 Jan 20 13:35	0°♊		desc. node	9582 Dec 05 03:10	5°♊29'07	
retrograde	9582 Jan 30 05:05	4°♊26'53			9582 Dec 21 11:17	0°♊	
evening set	9582 Feb 05 10:12	1°♊55'47		evening max el	9582 Dec 31 00:34	10°♊52'11	27°02'19
	9582 Feb 07 11:08	30°♊		retrograde	9583 Jan 13 08:12	18°♊13'13	
min. Earth dist.	9582 Feb 09 14:54	27°♊31'37	0.66819 AU	evening set	9583 Jan 19 23:57	15°♊38'34	
asc. node	9582 Feb 10 02:27	26°♊56'18		min. Earth dist.	9583 Jan 23 23:05	11°♊48'17	0.65483 AU
inferior conj	9582 Feb 11 06:11	25°♊30'37	0°22'46	inferior conj	9583 Jan 26 02:02	9°♊23'42	-0°37'56
minimum elong	9582 Feb 11 05:36	25°♊32'27	0°22'44	minimum elong	9583 Jan 26 03:08	9°♊20'34	0°37'12
morning rise	9582 Feb 17 01:43	19°♊44'09		asc. node	9583 Jan 27 23:34	7°♊18'03	
direct	9582 Feb 20 04:44	18°♊48'43		morning rise	9583 Feb 01 07:37	3°♊49'08	
morning max el	9582 Feb 26 20:08	22°♊24'08	18°39'04	direct	9583 Feb 04 01:16	3°♊08'42	
	9582 Mar 05 01:08	0°♊		morning max el	9583 Feb 10 11:09	6°♊32'12	18°05'25
desc. node	9582 Mar 16 06:03	16°♊58'09			9583 Feb 26 14:01	0°♊	
morning set	9582 Mar 20 01:07	22°♊55'35		morning set	9583 Feb 28 20:20	3°♊41'39	
	9582 Mar 24 13:15	0°♊		desc. node	9583 Mar 03 02:55	7°♊23'57	
max. Earth dist.	9582 Apr 04 13:37	17°♊14'30	1.45525 AU				
				superior conj	9583 Mar 15 14:08	27°♊21'56	-1°23'15
superior conj	9582 Apr 05 06:41	18°♊21'18	-1°56'43	minimum elong	9583 Mar 15 05:12	26°♊46'39	1°22'11
minimum elong	9582 Apr 04 22:17	17°♊48'28	1°56'13		9583 Mar 17 06:19	0°♊	
	9582 Apr 12 16:32	0°♊		max. Earth dist.	9583 Mar 18 09:28	1°♊46'34	1.45498 AU
evening rise	9582 Apr 20 18:43	12°♊51'12		evening rise	9583 Mar 31 17:37	22°♊31'26	
greatest brilliancy	9582 Apr 28 14:22	25°♊20'05	-0.9m		9583 Apr 05 13:45	0°♊	
	9582 May 01 13:46	0°♊		greatest brilliancy	9583 Apr 13 14:50	12°♊15'35	-0.7m
asc. node	9582 May 09 00:55	10°♊44'40		evening max el	9583 Apr 25 10:10	27°♊55'04	19°29'35
evening max el	9582 May 12 02:39	14°♊15'38	18°44'06	asc. node	9583 Apr 25 22:03	28°♊24'25	
retrograde	9582 May 18 17:30	17°♊53'48			9583 Apr 27 18:01	0°♊	
evening set	9582 May 22 00:15	16°♊52'14		retrograde	9583 May 02 14:47	1°♊59'56	
inferior conj	9582 May 27 14:59	11°♊13'31	3°16'39	evening set	9583 May 06 05:53	0°♊43'02	
minimum elong	9582 May 27 15:51	11°♊10'48	3°16'16		9583 May 07 03:44	30°♊	
min. Earth dist.	9582 May 29 12:12	8°♊54'08	0.65591 AU	inferior conj	9583 May 11 15:30	24°♊49'20	3°19'40
morning rise	9582 Jun 02 06:45	4°♊54'22		minimum elong	9583 May 11 15:10	24°♊50'25	3°19'23
direct	9582 Jun 08 18:28	2°♊08'56		min. Earth dist.	9583 May 12 21:38	23°♊10'07	0.67001 AU
desc. node	9582 Jun 12 06:05	2°♊49'37		morning rise	9583 May 17 00:06	18°♊30'06	
morning max el	9582 Jun 22 00:07	9°♊59'25	26°52'17	direct	9583 May 23 02:02	15°♊48'48	
	9582 Jul 07 18:10	0°♊		desc. node	9583 May 30 03:05	18°♊34'04	
	9582 Jul 25 18:25	0°♊		morning max el	9583 Jun 04 10:12	23°♊12'02	25°40'20
morning set	9582 Jul 27 18:29	3°♊46'52			9583 Jun 10 10:35	0°♊	
max. Earth dist.	9582 Aug 01 00:27	12°♊06'31	1.34039 AU		9583 Jul 01 02:23	0°♊	
				morning set	9583 Jul 10 12:24	16°♊18'43	
superior conj	9582 Aug 05 09:15	21°♊03'51	0°03'45	max. Earth dist.	9583 Jul 14 05:33	23°♊13'41	1.35835 AU
minimum elong	9582 Aug 05 09:04	21°♊02'53	0°03'29		9583 Jul 17 17:35	0°♊	
behind sun begin	9582 Aug 05 03:28	20°♊33'40					
behind sun end	9582 Aug 05 14:39	21°♊32'09		superior conj	9583 Jul 20 01:45	4°♊39'10	-0°27'26
asc. node	9582 Aug 05 00:15	20°♊16'56		minimum elong	9583 Jul 20 03:25	4°♊47'32	0°27'24
	9582 Aug 09 14:50	0°♊		asc. node	9583 Jul 22 21:12	10°♊21'05	
evening rise	9582 Aug 12 18:04	6°♊37'37		evening rise	9583 Jul 28 00:51	20°♊55'56	
	9582 Aug 25 07:08	0°♊			9583 Aug 01 13:45	0°♊	
evening max el	9582 Sep 01 15:41	9°♊15'18	21°26'54	evening max el	9583 Aug 14 20:12	20°♊09'06	20°06'03
desc. node	9582 Sep 08 04:43	14°♊00'34		retrograde	9583 Aug 25 09:38	25°♊23'01	
retrograde	9582 Sep 13 20:19	15°♊18'14		desc. node	9583 Aug 26 01:54	25°♊21'48	
evening set	9582 Sep 16 10:21	15°♊02'56		evening set	9583 Aug 27 07:52	25°♊13'21	
inferior conj	9582 Sep 25 13:54	11°♊06'14	-4°45'19	inferior conj	9583 Sep 05 08:55	21°♊14'19	-3°06'16
minimum elong	9582 Sep 25 04:33	11°♊19'19	4°43'05	minimum elong	9583 Sep 05 00:39	21°♊26'37	3°03'28
min. Earth dist.	9582 Sep 25 16:21	11°♊02'48	0.54650 AU	min. Earth dist.	9583 Sep 07 01:59	20°♊13'05	0.54988 AU
morning rise	9582 Oct 03 23:36	7°♊15'49		morning rise	9583 Sep 13 16:16	17°♊02'58	
direct	9582 Oct 07 16:44	6°♊45'55		direct	9583 Sep 18 03:47	16°♊19'29	
morning max el	9582 Oct 20 05:45	12°♊43'41	22°19'41	morning max el	9583 Oct 01 18:22	22°♊59'22	24°06'17
asc. node	9582 Nov 01 00:18	28°♊17'52			9583 Oct 08 00:29	0°♊	
	9582 Nov 02 00:06	0°♊		asc. node	9583 Oct 18 21:15	17°♊08'22	
morning set	9582 Nov 10 23:05	17°♊29'43			9583 Oct 25 08:42	0°♊	

morning set	9583 Oct 26 10:51	2°♍18'27		morning max el	9584 Sep 12 07:08	3°♎12'44	25°47'03
					9584 Oct 01 08:27	0°♏	
superior conj	9583 Nov 02 08:01	17°♍15'23	1°39'59	asc. node	9584 Oct 04 18:11	6°♏26'51	
minimum elong	9583 Nov 02 07:31	17°♍12'42	1°40'12	morning set	9584 Oct 09 22:08	17°♏03'10	
max. Earth dist.	9583 Nov 04 14:35	22°♍10'17	1.32856 AU		9584 Oct 15 20:12	0°♍	
	9583 Nov 08 07:51	0°♎					
evening rise	9583 Nov 09 18:59	2°♎59'15		superior conj	9584 Oct 16 18:29	2°♍03'17	1°34'29
desc. node	9583 Nov 22 00:15	25°♎28'52		minimum elong	9584 Oct 16 17:02	1°♍55'16	1°34'32
	9583 Nov 24 19:12	0°♏		max. Earth dist.	9584 Oct 17 20:24	4°♍26'20	1.31975 AU
evening max el	9583 Dec 13 12:53	24°♏10'40	27°28'06	evening rise	9584 Oct 23 19:13	17°♍14'49	
	9583 Dec 21 09:31	0°♎			9584 Oct 30 05:29	0°♎	
retrograde	9583 Dec 27 04:40	1°♎30'43		desc. node	9584 Nov 07 21:21	15°♎01'02	
	9584 Jan 01 14:22	30°♎♏			9584 Nov 18 12:51	0°♏	
evening set	9584 Jan 03 03:59	28°♏59'20		evening max el	9584 Nov 24 21:42	6°♏55'10	27°23'25
min. Earth dist.	9584 Jan 06 22:38	25°♏40'55	0.63809 AU	retrograde	9584 Dec 08 17:53	14°♏10'13	
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morning set	9584 Feb 10 19:07	15°♎48'00		morning max el	9585 Jan 07 21:13	4°♏22'17	17°50'25
desc. node	9584 Feb 17 23:49	27°♎59'34		morning set	9585 Jan 23 15:10	28°♏54'25	
	9584 Feb 19 04:43	0°♎			9585 Jan 24 05:46	0°♎	
superior conj	9584 Feb 23 14:08	7°♎13'25	-0°40'32	superior conj	9585 Feb 03 14:57	18°♎16'25	0°01'49
minimum elong	9584 Feb 23 09:42	6°♎55'24	0°39'44	minimum elong	9585 Feb 03 15:08	18°♎17'12	0°02'01
max. Earth dist.	9584 Feb 29 04:43	16°♎14'07	1.44731 AU	behind sun begin	9585 Feb 03 06:34	17°♎40'37	
	9584 Mar 09 00:09	0°♎		behind sun end	9585 Feb 03 23:42	18°♎53'41	
evening rise	9584 Mar 10 05:26	1°♎52'30		desc. node	9585 Feb 03 20:42	18°♎40'56	
	9584 Mar 29 04:39	0°♏			9585 Feb 10 15:46	0°♎	
evening max el	9584 Apr 07 12:16	11°♏36'21	20°29'54	max. Earth dist.	9585 Feb 10 20:17	0°♎18'22	1.43319 AU
asc. node	9584 Apr 11 19:10	15°♏07'30		evening rise	9585 Feb 17 21:13	11°♎31'02	
retrograde	9584 Apr 15 13:28	16°♏17'38			9585 Mar 02 02:32	0°♎	
evening set	9584 Apr 19 13:45	14°♏45'13		evening max el	9585 Mar 21 08:48	25°♎18'08	21°41'54
inferior conj	9584 Apr 24 21:00	8°♏38'19	3°10'11		9585 Mar 27 12:24	0°♏	
minimum elong	9584 Apr 24 19:42	8°♏42'48	3°09'50	asc. node	9585 Mar 29 16:19	0°♏38'11	
min. Earth dist.	9584 Apr 25 13:01	7°♏43'25	0.67956 AU	retrograde	9585 Mar 30 11:34	0°♏41'23	
morning rise	9584 Apr 30 01:25	2°♏21'26			9585 Apr 02 06:09	30°♎♎	
	9584 May 04 09:16	30°♎♎		evening set	9585 Apr 03 22:03	28°♎53'43	
direct	9584 May 05 14:52	29°♎53'10		inferior conj	9585 Apr 09 05:12	22°♎35'59	2°50'02
	9584 May 06 21:23	0°♏		minimum elong	9585 Apr 09 03:15	22°♎42'49	2°49'32
desc. node	9584 May 16 00:03	5°♏46'37		min. Earth dist.	9585 Apr 09 08:12	22°♎25'33	0.68459 AU
morning max el	9584 May 16 19:39	6°♏35'13	24°14'31	morning rise	9585 Apr 14 08:16	16°♎23'06	
	9584 Jun 03 23:57	0°♏		direct	9585 Apr 19 08:08	14°♎13'33	
morning set	9584 Jun 21 11:12	27°♏55'38		morning max el	9585 Apr 29 06:07	20°♎05'22	22°44'38
	9584 Jun 22 15:46	0°♏		desc. node	9585 May 02 20:58	24°♎02'41	
max. Earth dist.	9584 Jun 25 03:36	4°♏25'21	1.37978 AU		9585 May 07 15:57	0°♏	
					9585 May 28 04:44	0°♏	
superior conj	9584 Jul 02 06:30	17°♏38'24	-1°00'07	morning set	9585 Jun 02 09:31	8°♏23'36	
minimum elong	9584 Jul 02 10:23	17°♏57'00	0°59'47	max. Earth dist.	9585 Jun 07 00:35	16°♏08'54	1.40250 AU
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	9584 Jul 08 14:15	0°♏		superior conj	9585 Jun 14 19:18	29°♏50'57	-1°31'33
evening rise	9584 Jul 11 01:40	4°♏54'18		minimum elong	9585 Jun 15 01:04	0°♏17'11	1°31'09
	9584 Jul 25 21:37	0°♎			9585 Jun 14 21:17	0°♏	
evening max el	9584 Jul 27 13:59	1°♎48'48	19°05'39	evening rise	9585 Jun 24 17:15	18°♏23'28	
retrograde	9584 Aug 05 11:55	6°♎14'27		asc. node	9585 Jun 25 15:08	20°♏07'08	
evening set	9584 Aug 07 09:04	6°♎03'24			9585 Jun 30 23:21	0°♏	
desc. node	9584 Aug 11 23:04	4°♎16'10		evening max el	9585 Jul 10 18:10	14°♏09'43	18°26'20
inferior conj	9584 Aug 15 18:58	1°♎50'05	-1°11'01	retrograde	9585 Jul 18 08:47	17°♏58'15	
minimum elong	9584 Aug 15 15:52	1°♎55'22	1°09'59	evening set	9585 Jul 20 11:55	17°♏41'11	
	9584 Aug 18 11:31	30°♎♏		inferior conj	9585 Jul 28 02:17	13°♏08'20	0°31'26
min. Earth dist.	9584 Aug 18 15:30	29°♏53'25	0.56218 AU	minimum elong	9585 Jul 28 03:24	13°♏06'06	0°30'45
morning rise	9584 Aug 23 19:38	27°♏03'00		desc. node	9585 Jul 29 20:13	11°♏43'53	
direct	9584 Aug 29 02:34	25°♏57'49		min. Earth dist.	9585 Jul 31 10:43	10°♏28'26	0.58108 AU
	9584 Sep 08 12:30	0°♎		morning rise	9585 Aug 04 15:21	7°♏44'45	

































































































































direct	9585 Aug 10 16:06	6°♎10'20		morning rise	9586 Jul 17 05:28	19°♊18'16	
morning max el	9585 Aug 25 01:12	13°♎50'53	27°05'07	direct	9586 Jul 23 18:28	17°♊13'40	
	9585 Sep 06 22:19	0°♎		morning max el	9586 Aug 07 02:02	25°♊09'40	27°48'46
asc. node	9585 Sep 21 15:04	26°♎05'21			9586 Aug 11 12:48	0°♎	
	9585 Sep 23 12:29	0°♎			9586 Aug 31 08:18	0°♎	
morning set	9585 Sep 24 07:15	1°♎38'53		asc. node	9586 Sep 08 11:56	15°♎57'38	
				morning set	9586 Sep 08 12:26	16°♎00'12	
superior conj	9585 Oct 01 06:14	16°♎51'59	1°23'26	max. Earth dist.	9586 Sep 14 14:48	29°♎08'03	1.31625 AU
minimum elong	9585 Oct 01 04:11	16°♎40'31	1°23'16		9586 Sep 15 00:13	0°♎	
max. Earth dist.	9585 Oct 01 05:39	16°♎48'43	1.31560 AU				
	9585 Oct 07 05:39	0°♎		superior conj	9586 Sep 15 17:28	1°♎35'24	1°07'10
evening rise	9585 Oct 08 01:17	1°♎44'54		minimum elong	9586 Sep 15 15:13	1°♎23'00	1°06'47
	9585 Oct 23 05:03	0°♎		evening rise	9586 Sep 22 11:00	16°♎22'55	
desc. node	9585 Oct 25 18:28	3°♎54'51			9586 Sep 29 03:17	0°♎	
evening max el	9585 Nov 07 00:33	18°♎54'48	26°44'58	desc. node	9586 Oct 12 15:37	21°♎54'37	
retrograde	9585 Nov 20 22:49	26°♎03'19			9586 Oct 19 18:08	0°♎	
evening set	9585 Nov 27 17:45	24°♎06'53		evening max el	9586 Oct 19 19:35	0°♎03'27	25°34'17
min. Earth dist.	9585 Dec 01 14:42	21°♎30'04	0.59764 AU	retrograde	9586 Nov 02 17:21	7°♎04'21	
inferior conj	9585 Dec 04 19:10	18°♎57'41	-4°10'13	evening set	9586 Nov 08 18:34	5°♎39'41	
minimum elong	9585 Dec 05 02:45	18°♎42'31	4°07'39	min. Earth dist.	9586 Nov 13 07:57	3°♎02'13	0.57716 AU
morning rise	9585 Dec 12 14:20	14°♎17'28		inferior conj	9586 Nov 16 07:44	0°♎57'59	-5°10'05
direct	9585 Dec 14 18:12	14°♎00'14		minimum elong	9586 Nov 16 14:26	0°♎46'20	5°08'36
asc. node	9585 Dec 18 14:50	14°♎58'09			9586 Nov 17 17:33	30°♎	
morning max el	9585 Dec 22 09:37	17°♎46'57	18°10'56	morning rise	9586 Nov 24 12:37	26°♎40'10	
	9585 Dec 31 03:18	0°♎		direct	9586 Nov 26 20:06	26°♎23'45	
morning set	9586 Jan 07 02:27	12°♎43'21			9586 Dec 04 22:04	0°♎	
	9586 Jan 16 09:42	0°♎		asc. node	9586 Dec 05 11:51	0°♎31'50	
				morning max el	9586 Dec 05 13:55	0°♎36'46	18°52'21
superior conj	9586 Jan 16 15:49	0°♎27'34	0°37'54	morning set	9586 Dec 22 00:11	27°♎00'08	
minimum elong	9586 Jan 16 18:29	0°♎39'38	0°37'47		9586 Dec 23 12:48	0°♎	
desc. node	9586 Jan 21 17:35	9°♎24'36					
max. Earth dist.	9586 Jan 24 06:48	13°♎45'52	1.41429 AU	superior conj	9586 Dec 30 12:04	13°♎32'55	1°05'37
evening rise	9586 Jan 29 05:36	21°♎57'04		minimum elong	9586 Dec 30 15:17	13°♎48'12	1°05'33
	9586 Feb 03 07:11	0°♎		max. Earth dist.	9587 Jan 06 13:33	26°♎31'52	1.39281 AU
	9586 Feb 24 05:35	0°♎		desc. node	9587 Jan 08 14:30	0°♎06'38	
evening max el	9586 Mar 04 01:04	9°♎02'33	23°00'52		9587 Jan 08 12:58	0°♎	
retrograde	9586 Mar 14 07:25	15°♎07'05		evening rise	9587 Jan 10 11:28	3°♎19'59	
asc. node	9586 Mar 16 13:28	14°♎42'14			9587 Jan 27 11:48	0°♎	
evening set	9586 Mar 19 05:12	13°♎04'50		evening max el	9587 Feb 14 15:02	22°♎50'06	24°20'52
min. Earth dist.	9586 Mar 24 04:59	7°♎11'13	0.68529 AU	retrograde	9587 Feb 25 23:42	29°♎29'20	
inferior conj	9586 Mar 24 14:09	6°♎39'30	2°20'19	evening set	9587 Mar 03 09:39	27°♎13'46	
minimum elong	9586 Mar 24 11:56	6°♎47'11	2°19'41	asc. node	9587 Mar 03 10:39	27°♎11'38	
morning rise	9586 Mar 29 18:34	0°♎31'56		min. Earth dist.	9587 Mar 08 01:03	21°♎55'00	0.68180 AU
	9586 Mar 30 11:26	30°♎		inferior conj	9587 Mar 08 21:57	20°♎44'46	1°41'34
direct	9586 Apr 03 04:47	28°♎43'56		minimum elong	9587 Mar 08 19:56	20°♎51'33	1°40'57
	9586 Apr 07 06:09	0°♎		morning rise	9587 Mar 14 06:18	14°♎44'06	
morning max el	9586 Apr 11 20:50	3°♎44'45	21°19'30	direct	9587 Mar 18 03:31	13°♎17'57	
desc. node	9586 Apr 19 17:50	13°♎05'02		morning max el	9587 Mar 25 18:44	17°♎35'39	20°05'27
	9586 May 01 16:28	0°♎			9587 Apr 04 17:30	0°♎	
morning set	9586 May 13 04:53	17°♎38'09		desc. node	9587 Apr 06 14:41	2°♎40'35	
max. Earth dist.	9586 May 20 02:33	28°♎44'10	1.42379 AU	morning set	9587 Apr 22 05:08	26°♎04'15	
	9586 May 20 21:00	0°♎			9587 Apr 24 18:03	0°♎	
				max. Earth dist.	9587 May 02 12:11	12°♎12'33	1.44096 AU
superior conj	9586 May 27 11:37	11°♎07'25	-1°57'23				
minimum elong	9586 May 27 17:29	11°♎32'39	1°57'15	superior conj	9587 May 08 03:52	21°♎20'40	-2°11'38
	9586 Jun 07 03:19	0°♎		minimum elong	9587 May 08 06:01	21°♎29'29	2°11'51
evening rise	9586 Jun 07 19:39	1°♎13'54			9587 May 13 09:19	0°♎	
asc. node	9586 Jun 12 12:07	9°♎39'50		evening rise	9587 May 21 04:08	13°♎14'55	
evening max el	9586 Jun 24 04:51	27°♎02'54	18°07'07	asc. node	9587 May 30 09:10	28°♎51'51	
	9586 Jun 28 10:32	0°♎			9587 May 31 02:11	0°♎	
retrograde	9586 Jun 30 23:23	0°♎29'36		evening max el	9587 Jun 07 18:21	10°♎18'40	18°07'04
evening set	9586 Jul 03 10:21	0°♎02'43		retrograde	9587 Jun 14 03:53	13°♎38'58	
	9586 Jul 03 13:18	30°♎		evening set	9587 Jun 16 22:35	12°♎59'41	
inferior conj	9586 Jul 10 06:32	25°♎09'32	1°48'22	inferior conj	9587 Jun 23 04:12	7°♎47'19	2°39'16
minimum elong	9586 Jul 10 09:20	25°♎03'01	1°47'11	minimum elong	9587 Jun 23 06:50	7°♎40'19	2°38'19
min. Earth dist.	9586 Jul 13 13:11	22°♎07'53	0.60335 AU	min. Earth dist.	9587 Jun 26 00:23	4°♎47'40	0.62572 AU
desc. node	9586 Jul 16 17:20	19°♎38'01		morning rise	9587 Jun 29 13:17	1°♎38'52	

	9587 Jul 02 08:54	30° RII	min. Earth dist.	9588 Jun 07 20:59	18° II 14'57	0.64585 AU
desc. node	9587 Jul 03 14:24	29° II 33'26	morning rise	9588 Jun 11 12:24	14° II 35'48	
direct	9587 Jul 06 06:56	29° II 10'16	direct	9588 Jun 18 03:45	11° II 53'28	
	9587 Jul 10 10:13	0° S	desc. node	9588 Jun 19 11:28	11° II 59'16	
morning max el	9587 Jul 20 08:41	7° S 12'33 27°54'07	morning max el	9588 Jul 01 18:42	19° II 51'59 27°23'38	
	9587 Aug 06 18:15	0° Q		9588 Jul 10 10:23	0° S	
morning set	9587 Aug 23 11:38	0° P 01'45		9588 Jul 29 19:24	0° Q	
	9587 Aug 23 11:17	0° P	morning set	9588 Aug 06 02:13	13° Q 35'41	
asc. node	9587 Aug 26 08:49	5° P 58'54	max. Earth dist.	9588 Aug 10 17:46	22° Q 57'09 1.33221 AU	
max. Earth dist.	9587 Aug 28 20:07	11° P 14'12 1.32177 AU	asc. node	9588 Aug 12 05:42	26° Q 04'09	
superior conj	9587 Aug 31 02:20	16° P 08'10 0°46'00	superior conj	9588 Aug 14 06:47	0° P 23'29 0°20'20	
minimum elong	9587 Aug 31 00:26	15° P 57'45 0°45'32	minimum elong	9588 Aug 14 05:48	0° P 18'11 0°19'56	
	9587 Sep 06 10:41	0° Q		9588 Aug 14 02:23	0° P	
evening rise	9587 Sep 06 22:28	1° Q 03'18	evening rise	9588 Aug 21 09:42	15° P 39'25	
	9587 Sep 22 16:37	0° M		9588 Aug 28 12:45	0° Q	
desc. node	9587 Sep 29 12:48	8° M 39'30	evening max el	9588 Sep 11 19:42	20° Q 37'55 22°20'45	
evening max el	9587 Oct 01 07:49	10° M 28'55 24°00'47	desc. node	9588 Sep 15 09:59	23° Q 41'24	
retrograde	9587 Oct 14 23:23	17° M 18'38	retrograde	9588 Sep 24 17:35	27° Q 03'59	
evening set	9587 Oct 19 18:44	16° M 28'02	evening set	9588 Sep 28 00:59	26° Q 39'47	
min. Earth dist.	9587 Oct 25 18:23	13° M 31'27 0.55995 AU	min. Earth dist.	9588 Oct 06 01:59	23° Q 06'59 0.54897 AU	
inferior conj	9587 Oct 27 23:53	12° M 10'05 -5°40'37	inferior conj	9588 Oct 06 22:46	22° Q 37'41 -5°22'00	
minimum elong	9587 Oct 28 01:10	12° M 08'07 5°40'22	minimum elong	9588 Oct 06 16:12	22° Q 46'58 5°20'57	
morning rise	9587 Nov 05 09:38	8° M 12'40	morning rise	9588 Oct 15 09:06	18° Q 50'24	
direct	9587 Nov 08 02:47	7° M 53'44	direct	9588 Oct 18 16:34	18° Q 25'49	
morning max el	9587 Nov 18 06:35	12° M 41'52 19°56'17	morning max el	9588 Oct 30 09:56	23° Q 56'48 21°22'17	
asc. node	9587 Nov 22 08:51	17° M 19'25		9588 Nov 04 17:50	0° M	
	9587 Nov 30 06:56	0° S	asc. node	9588 Nov 08 05:49	5° M 04'50	
morning set	9587 Dec 06 04:55	11° S 34'57	morning set	9588 Nov 19 13:58	26° M 19'46	
				9588 Nov 21 08:00	0° S	
superior conj	9587 Dec 13 22:55	27° S 19'13 1°24'50	superior conj	9588 Nov 26 20:10	11° S 34'20 1°36'11	
minimum elong	9587 Dec 14 01:30	27° S 32'05 1°24'56	minimum elong	9588 Nov 26 21:35	11° S 41'44 1°36'25	
	9587 Dec 15 07:21	0° S		9588 Dec 01 06:44	20° S 37'03 1.35157 AU	
max. Earth dist.	9587 Dec 19 20:03	8° S 43'20 1.37118 AU	max. Earth dist.	9588 Dec 05 10:02	28° S 39'02	
evening rise	9587 Dec 23 14:04	15° S 36'53	evening rise	9588 Dec 06 03:15	0° S	
desc. node	9587 Dec 26 11:29	20° S 43'21	desc. node	9588 Dec 12 08:31	11° S 10'18	
	9588 Jan 01 00:04	0° Q		9588 Dec 24 05:41	0° Q	
	9588 Jan 22 02:23	0° K	evening max el	9589 Jan 09 17:39	20° Q 23'34 26°35'58	
evening max el	9588 Jan 28 04:19	6° K 38'55 25°34'58	retrograde	9589 Jan 22 17:58	27° Q 41'51	
retrograde	9588 Feb 09 11:25	13° K 43'00	evening set	9589 Jan 29 04:02	25° Q 08'12	
evening set	9588 Feb 15 09:51	11° K 16'24	min. Earth dist.	9589 Feb 02 06:09	20° Q 58'55 0.66294 AU	
asc. node	9588 Feb 18 07:49	8° K 17'49	inferior conj	9589 Feb 04 02:31	18° Q 46'45 -0°02'02	
min. Earth dist.	9588 Feb 19 18:10	6° K 32'34 0.67430 AU	minimum elong	9589 Feb 04 02:34	18° Q 46'36 0°01'46	
inferior conj	9588 Feb 21 02:45	4° K 48'28 0°54'01	transit middle	9589 Feb 04 02:34	18° Q 46'36 0°01'46	
minimum elong	9588 Feb 21 01:28	4° K 52'35 0°53'41	transit begin	9589 Feb 03 23:40	18° Q 55'16	
	9588 Feb 25 08:25	30° R	transit end	9589 Feb 04 05:28	18° Q 37'58	
morning rise	9588 Feb 26 17:31	28° Q 56'23	asc. node	9589 Feb 04 04:58	18° Q 39'26	
direct	9588 Mar 01 02:50	27° Q 50'33	morning rise	9589 Feb 10 02:06	13° Q 05'21	
	9588 Mar 06 04:50	0° K	direct	9589 Feb 13 00:55	12° Q 16'47	
morning max el	9588 Mar 08 00:34	1° K 37'25 19°06'00	morning max el	9589 Feb 19 13:01	15° Q 45'35 18°22'45	
greatest brilliancy	9588 Mar 21 08:55	19° K 28'22 -0.7m		9589 Mar 02 03:24	0° K	
desc. node	9588 Mar 23 11:32	22° K 40'26	desc. node	9589 Mar 10 08:24	12° K 58'14	
	9588 Mar 28 06:00	0° Y	morning set	9589 Mar 11 09:59	14° K 40'15	
morning set	9588 Mar 31 07:52	4° Y 45'34		9589 Mar 21 02:06	0° Y	
max. Earth dist.	9588 Apr 14 04:03	26° Y 19'38 1.45205 AU				
	9588 Apr 16 11:59	0° S	superior conj	9589 Mar 27 02:56	9° Y 28'03 -1°44'19	
superior conj	9588 Apr 16 21:11	0° S 36'17 -2°08'04	minimum elong	9589 Mar 26 17:25	8° Y 50'49 1°43'29	
minimum elong	9588 Apr 16 16:11	0° S 16'33 2°08'02	max. Earth dist.	9589 Mar 27 23:09	10° Y 47'10 1.45598 AU	
evening rise	9588 May 01 14:17	24° S 17'40		9589 Apr 09 05:45	0° S	
	9588 May 05 01:46	0° II	evening rise	9589 Apr 12 00:50	4° S 23'37	
asc. node	9588 May 16 06:16	17° II 35'29	greatest brilliancy	9589 Apr 22 04:47	20° S 18'47 -0.8m	
evening max el	9588 May 21 07:23	23° II 47'51 18°25'28		9589 Apr 28 17:16	0° II	
retrograde	9588 May 27 17:48	27° II 15'58	asc. node	9589 May 03 03:24	5° II 41'54	
evening set	9588 May 30 20:04	26° II 22'45	evening max el	9589 May 04 17:25	7° II 24'36 19°01'28	
inferior conj	9588 Jun 05 15:08	20° II 52'57 3°08'12	retrograde	9589 May 11 13:20	11° II 13'12	
minimum elong	9588 Jun 05 16:44	20° II 48'14 3°07'39	evening set	9589 May 14 23:29	10° II 05'13	

inferior conj	9589 May 20 11:38	4° Π 19'43	3°19'37		9590 Apr 02 07:56	0° \mathcal{B}	
minimum elong	9589 May 20 12:00	4° Π 18'36	3°19'18	greatest brilliancy	9590 Apr 06 05:41	5° \mathcal{B} 47'55	-0.6m
min. Earth dist.	9589 May 22 02:20	2° Π 16'35	0.66235 AU	evening max el	9590 Apr 17 22:39	21° \mathcal{B} 04'19	19°53'38
	9589 May 24 00:06	30° \mathcal{R} \mathcal{B}		asc. node	9590 Apr 20 00:32	22° \mathcal{B} 58'55	
morning rise	9589 May 25 23:58	27° \mathcal{B} 59'52		retrograde	9590 Apr 25 11:29	25° \mathcal{B} 24'04	
direct	9589 Jun 01 07:48	25° \mathcal{B} 15'05		evening set	9590 Apr 29 06:16	24° \mathcal{B} 00'47	
desc. node	9589 Jun 06 08:29	26° \mathcal{B} 39'46		inferior conj	9590 May 04 14:34	18° \mathcal{B} 01'17	3°17'01
	9589 Jun 11 02:18	0° Π		minimum elong	9590 May 04 13:48	18° \mathcal{B} 03'54	3°16'44
morning max el	9589 Jun 14 05:28	2° Π 56'28	26°24'07	min. Earth dist.	9590 May 05 14:39	16° \mathcal{B} 40'22	0.67459 AU
	9589 Jul 04 16:24	0° \mathcal{E}		morning rise	9590 May 09 21:01	11° \mathcal{B} 42'33	
morning set	9589 Jul 20 04:55	26° \mathcal{E} 33'35		direct	9590 May 15 17:52	9° \mathcal{B} 05'39	
	9589 Jul 22 00:30	0° \mathcal{Q}		desc. node	9590 May 24 05:27	13° \mathcal{B} 04'16	
max. Earth dist.	9589 Jul 24 04:58	4° \mathcal{Q} 14'17	1.34751 AU	morning max el	9590 May 27 15:10	16° \mathcal{B} 13'43	25°04'52
					9590 Jun 08 00:25	0° Π	
superior conj	9589 Jul 29 04:28	14° \mathcal{Q} 15'20	-0°09'10		9590 Jun 27 14:57	0° \mathcal{E}	
minimum elong	9589 Jul 29 05:00	14° \mathcal{Q} 18'04	0°09'19	morning set	9590 Jul 02 15:21	8° \mathcal{E} 43'29	
behind sun begin	9589 Jul 29 00:09	13° \mathcal{Q} 53'07		max. Earth dist.	9590 Jul 06 05:53	15° \mathcal{E} 17'01	1.36708 AU
behind sun end	9589 Jul 29 09:51	14° \mathcal{Q} 43'03					
asc. node	9589 Jul 30 02:39	16° \mathcal{Q} 09'44		superior conj	9590 Jul 12 16:24	27° \mathcal{E} 35'56	-0°41'14
evening rise	9589 Aug 05 18:44	0° \mathcal{M} 05'51		minimum elong	9590 Jul 12 18:59	27° \mathcal{E} 48'41	0°41'04
	9589 Aug 05 17:37	0° \mathcal{M}			9590 Jul 13 21:31	0° \mathcal{Q}	
	9589 Aug 23 14:11	0° \mathcal{L}		asc. node	9590 Jul 16 23:36	6° \mathcal{Q} 11'35	
evening max el	9589 Aug 24 16:35	1° \mathcal{L} 08'15	20°50'07	evening rise	9590 Jul 20 23:17	14° \mathcal{Q} 15'57	
desc. node	9589 Sep 02 07:10	6° \mathcal{L} 29'57			9590 Jul 29 05:01	0° \mathcal{M}	
retrograde	9589 Sep 05 05:45	6° \mathcal{L} 51'47		evening max el	9590 Aug 07 03:01	12° \mathcal{M} 21'53	19°37'52
evening set	9589 Sep 07 10:36	6° \mathcal{L} 40'08		retrograde	9590 Aug 16 23:10	17° \mathcal{M} 14'07	
inferior conj	9589 Sep 16 15:02	2° \mathcal{L} 43'53	-4°07'31	evening set	9590 Aug 18 19:28	17° \mathcal{M} 04'36	
minimum elong	9589 Sep 16 05:18	2° \mathcal{L} 57'46	4°04'43	desc. node	9590 Aug 20 04:20	16° \mathcal{M} 45'52	
min. Earth dist.	9589 Sep 17 10:34	2° \mathcal{L} 16'02	0.54676 AU	inferior conj	9590 Aug 27 15:12	13° \mathcal{M} 01'02	-2°17'24
	9589 Sep 21 17:46	30° \mathcal{R} \mathcal{M}		minimum elong	9590 Aug 27 09:00	13° \mathcal{M} 10'47	2°15'11
morning rise	9589 Sep 25 00:03	28° \mathcal{M} 46'46		min. Earth dist.	9590 Aug 29 21:59	11° \mathcal{M} 35'09	0.55410 AU
direct	9589 Sep 29 00:30	28° \mathcal{M} 12'08		morning rise	9590 Sep 04 20:19	8° \mathcal{M} 35'16	
	9589 Oct 05 22:54	0° \mathcal{L}		direct	9590 Sep 09 16:10	7° \mathcal{M} 43'21	
morning max el	9589 Oct 12 02:18	4° \mathcal{L} 28'49	23°04'38	morning max el	9590 Sep 23 14:04	14° \mathcal{M} 39'59	24°50'48
asc. node	9589 Oct 26 02:45	23° \mathcal{L} 34'44			9590 Oct 05 16:59	0° \mathcal{L}	
	9589 Oct 29 13:59	0° \mathcal{M}		asc. node	9590 Oct 12 23:40	12° \mathcal{L} 38'17	
morning set	9589 Nov 04 01:14	11° \mathcal{M} 08'26		morning set	9590 Oct 19 13:00	25° \mathcal{L} 56'15	
					9590 Oct 21 10:14	0° \mathcal{M}	
superior conj	9589 Nov 11 00:31	26° \mathcal{M} 08'19	1°40'27				
minimum elong	9589 Nov 11 00:42	26° \mathcal{M} 09'16	1°40'43	superior conj	9590 Oct 26 09:24	10° \mathcal{M} 53'34	1°38'22
	9589 Nov 12 19:59	0° \mathcal{J}		minimum elong	9590 Oct 26 08:28	10° \mathcal{M} 48'27	1°38'31
max. Earth dist.	9589 Nov 14 01:00	2° \mathcal{J} 32'50	1.33567 AU	max. Earth dist.	9590 Oct 28 03:14	14° \mathcal{M} 41'58	1.32424 AU
evening rise	9589 Nov 18 19:38	12° \mathcal{J} 16'53		evening rise	9590 Nov 02 15:25	26° \mathcal{M} 21'43	
	9589 Nov 28 10:19	0° \mathcal{Z}			9590 Nov 04 10:34	0° \mathcal{J}	
desc. node	9589 Nov 29 05:34	1° \mathcal{Z} 21'48		desc. node	9590 Nov 16 02:39	21° \mathcal{J} 11'09	
	9589 Dec 19 11:53	0° \approx			9590 Nov 21 19:23	0° \mathcal{Z}	
evening max el	9589 Dec 23 06:38	3° \approx 54'41	27°16'39	evening max el	9590 Dec 05 17:52	17° \mathcal{Z} 01'01	27°30'10
retrograde	9590 Jan 05 18:34	11° \approx 17'01		retrograde	9590 Dec 19 12:17	24° \mathcal{Z} 19'34	
evening set	9590 Jan 12 14:00	8° \approx 42'32		evening set	9590 Dec 26 13:03	21° \mathcal{Z} 52'26	
min. Earth dist.	9590 Jan 16 10:55	5° \approx 06'20	0.64803 AU	min. Earth dist.	9590 Dec 30 06:29	18° \mathcal{Z} 45'47	0.63006 AU
inferior conj	9590 Jan 18 18:53	2° \approx 33'45	-1°06'02	inferior conj	9591 Jan 02 01:05	16° \mathcal{Z} 02'52	-2°16'23
minimum elong	9590 Jan 18 20:53	2° \approx 28'17	1°04'53	minimum elong	9591 Jan 02 05:30	15° \mathcal{Z} 52'01	2°14'18
	9590 Jan 21 05:49	30° \mathcal{R} \mathcal{Z}		asc. node	9591 Jan 08 23:11	10° \mathcal{Z} 51'17	
asc. node	9590 Jan 22 02:07	29° \mathcal{Z} 13'04		morning rise	9591 Jan 09 00:05	10° \mathcal{Z} 50'28	
morning rise	9590 Jan 25 05:23	27° \mathcal{Z} 05'24		direct	9591 Jan 11 07:49	10° \mathcal{Z} 25'06	
direct	9590 Jan 27 19:30	26° \mathcal{Z} 30'25		morning max el	9591 Jan 17 22:58	13° \mathcal{Z} 49'31	17°47'16
morning max el	9590 Feb 03 05:30	29° \mathcal{Z} 52'15	17°56'18		9591 Jan 29 03:07	0° \approx	
	9590 Feb 03 08:37	0° \approx		morning set	9591 Feb 03 02:11	8° \approx 36'32	
morning set	9590 Feb 20 17:30	26° \approx 01'56		desc. node	9591 Feb 12 02:09	24° \approx 06'44	
	9590 Feb 23 02:50	0° \mathcal{H}					
desc. node	9590 Feb 25 05:15	3° \mathcal{H} 28'21		superior conj	9591 Feb 15 01:54	29° \approx 06'50	-0°22'05
				minimum elong	9591 Feb 14 23:38	28° \approx 57'25	0°21'33
superior conj	9590 Mar 06 15:42	18° \mathcal{H} 45'53	-1°05'39		9591 Feb 15 14:44	0° \mathcal{H}	
minimum elong	9590 Mar 06 08:23	18° \mathcal{H} 16'39	1°04'35	max. Earth dist.	9591 Feb 21 12:11	9° \mathcal{H} 35'26	1.44206 AU
max. Earth dist.	9590 Mar 10 18:35	25° \mathcal{H} 17'16	1.45250 AU	evening rise	9591 Mar 02 04:52	23° \mathcal{H} 14'23	
	9590 Mar 13 18:43	0° \mathcal{Y}			9591 Mar 06 15:05	0° \mathcal{Y}	
evening rise	9590 Mar 22 17:13	13° \mathcal{Y} 50'21			9591 Mar 27 17:28	0° \mathcal{B}	

evening max el	9591 Mar 31 22:23	4° ♄ 45'46	20°59'24		9592 Feb 28 00:46	0° ♄	
asc. node	9591 Apr 06 21:40	9° ♄ 12'47		evening max el	9592 Mar 13 17:00	18° ♄ 28'50	22°14'59
retrograde	9591 Apr 09 09:59	9° ♄ 44'14		retrograde	9592 Mar 23 07:11	24° ♄ 09'24	
evening set	9591 Apr 13 14:29	8° ♄ 05'25		asc. node	9592 Mar 23 18:49	24° ♄ 08'14	
inferior conj	9591 Apr 18 21:28	1° ♄ 53'51	3°02'50	evening set	9592 Mar 27 22:28	22° ♄ 15'18	
minimum elong	9591 Apr 18 19:50	1° ♄ 59'29	3°02'25	inferior conj	9592 Apr 02 06:12	15° ♄ 54'06	2°38'34
min. Earth dist.	9591 Apr 19 07:54	1° ♄ 17'44	0.68231 AU	minimum elong	9592 Apr 02 04:05	16° ♄ 01'29	2°37'59
	9591 Apr 20 06:36	30° ♄		min. Earth dist.	9592 Apr 02 03:55	16° ♄ 02'03	0.68547 AU
morning rise	9591 Apr 24 00:58	25° ♄ 38'29		morning rise	9592 Apr 07 09:32	9° ♄ 43'34	
direct	9591 Apr 29 08:50	23° ♄ 17'22		direct	9592 Apr 12 03:38	7° ♄ 42'59	
morning max el	9591 May 10 00:26	29° ♄ 38'24	23°36'05	morning max el	9592 Apr 21 12:16	13° ♄ 11'55	22°07'25
	9591 May 10 08:54	0° ♄		desc. node	9592 Apr 26 23:19	19° ♄ 23'12	
desc. node	9591 May 11 02:25	0° ♄ 45'45			9592 May 04 22:31	0° ♄	
	9591 Jun 01 19:55	0° ♄		morning set	9592 May 24 15:00	29° ♄ 47'32	
morning set	9591 Jun 14 04:14	19° ♄ 51'34			9592 May 24 18:05	0° ♄	
max. Earth dist.	9591 Jun 18 02:15	26° ♄ 36'53	1.38944 AU	max. Earth dist.	9592 May 30 01:29	8° ♄ 43'55	1.41193 AU
	9591 Jun 20 00:09	0° ♄					
superior conj	9591 Jun 25 14:53	10° ♄ 16'12	-1°13'50	superior conj	9592 Jun 06 19:34	22° ♄ 06'18	-1°43'31
minimum elong	9591 Jun 25 19:40	10° ♄ 38'38	1°13'26	minimum elong	9592 Jun 07 01:43	22° ♄ 33'37	1°43'11
asc. node	9591 Jul 03 20:33	26° ♄ 05'28			9592 Jun 11 04:47	0° ♄	
evening rise	9591 Jul 04 20:33	28° ♄ 02'12		evening rise	9592 Jun 17 07:05	11° ♄ 16'24	
	9591 Jul 05 20:50	0° ♄		asc. node	9592 Jun 19 17:33	15° ♄ 47'31	
evening max el	9591 Jul 21 01:44	24° ♄ 19'52	18°46'28		9592 Jun 27 22:56	0° ♄	
retrograde	9591 Jul 29 08:45	28° ♄ 27'34		evening max el	9592 Jul 03 09:09	6° ♄ 55'27	18°15'43
evening set	9591 Jul 31 08:12	28° ♄ 14'21		retrograde	9592 Jul 10 13:44	10° ♄ 32'54	
desc. node	9591 Aug 07 01:29	24° ♄ 51'20		evening set	9592 Jul 12 20:13	10° ♄ 11'58	
inferior conj	9591 Aug 08 09:53	23° ♄ 53'06	-0°24'51	inferior conj	9592 Jul 20 02:25	5° ♄ 30'00	1°07'25
minimum elong	9591 Aug 08 08:52	23° ♄ 54'58	0°24'41	minimum elong	9592 Jul 20 04:33	5° ♄ 25'28	1°06'23
min. Earth dist.	9591 Aug 11 13:28	21° ♄ 36'02	0.56959 AU	min. Earth dist.	9592 Jul 23 11:18	2° ♄ 38'15	0.59033 AU
morning rise	9591 Aug 16 06:09	18° ♄ 50'18		desc. node	9592 Jul 23 22:38	2° ♄ 15'35	
direct	9591 Aug 21 21:23	17° ♄ 33'11		morning rise	9592 Jul 27 09:37	29° ♄ 53'26	
morning max el	9591 Sep 05 04:21	24° ♄ 59'39	26°23'55		9592 Jul 27 05:00	30° ♄	
	9591 Sep 09 19:45	0° ♄		direct	9592 Aug 02 16:19	28° ♄ 06'15	
	9591 Sep 28 19:06	0° ♄			9592 Aug 09 10:15	0° ♄	
asc. node	9591 Sep 29 20:33	2° ♄ 05'51		morning max el	9592 Aug 17 01:22	5° ♄ 53'46	27°28'27
morning set	9591 Oct 03 23:33	10° ♄ 37'27			9592 Sep 04 00:07	0° ♄	
				asc. node	9592 Sep 15 17:26	21° ♄ 50'41	
superior conj	9591 Oct 10 20:38	25° ♄ 42'16	1°30'28	morning set	9592 Sep 17 07:14	25° ♄ 07'24	
minimum elong	9591 Oct 10 18:52	25° ♄ 32'31	1°30'25		9592 Sep 19 14:03	0° ♄	
max. Earth dist.	9591 Oct 11 11:02	27° ♄ 02'10	1.31744 AU	superior conj	9592 Sep 24 08:21	10° ♄ 28'50	1°17'09
	9591 Oct 12 19:11	0° ♄		minimum elong	9592 Sep 24 06:10	10° ♄ 16'38	1°16'53
evening rise	9591 Oct 17 18:25	10° ♄ 44'23		max. Earth dist.	9592 Sep 23 20:53	9° ♄ 25'06	1.31533 AU
	9591 Oct 27 16:18	0° ♄		evening rise	9592 Oct 01 02:17	25° ♄ 18'11	
desc. node	9591 Nov 02 23:44	10° ♄ 28'27			9592 Oct 03 07:50	0° ♄	
evening max el	9591 Nov 18 00:43	29° ♄ 28'26	27°11'17	desc. node	9592 Oct 19 20:52	29° ♄ 01'05	
	9591 Nov 18 14:18	0° ♄			9592 Oct 20 13:40	0° ♄	
retrograde	9591 Dec 01 21:52	6° ♄ 39'49		evening max el	9592 Oct 30 00:20	11° ♄ 05'53	26°18'22
evening set	9591 Dec 08 21:41	4° ♄ 29'24		retrograde	9592 Nov 12 22:16	18° ♄ 10'48	
min. Earth dist.	9591 Dec 12 15:20	1° ♄ 45'12	0.60987 AU	evening set	9592 Nov 19 11:30	16° ♄ 26'48	
	9591 Dec 14 16:27	30° ♄		min. Earth dist.	9592 Nov 23 13:30	13° ♄ 52'13	0.58881 AU
inferior conj	9591 Dec 15 17:48	29° ♄ 04'45	-3°29'30	inferior conj	9592 Nov 26 17:30	11° ♄ 29'47	-4°37'53
minimum elong	9591 Dec 16 00:33	28° ♄ 50'09	3°26'52	minimum elong	9592 Nov 27 01:11	11° ♄ 15'21	4°35'40
morning rise	9591 Dec 23 05:53	24° ♄ 11'44		morning rise	9592 Dec 04 17:21	6° ♄ 59'11	
direct	9591 Dec 25 10:11	23° ♄ 52'23		direct	9592 Dec 06 22:13	6° ♄ 42'35	
asc. node	9591 Dec 26 20:15	24° ♄ 00'53		asc. node	9592 Dec 12 17:17	8° ♄ 44'54	
morning max el	9592 Jan 01 14:10	27° ♄ 28'09	17°56'38	morning max el	9592 Dec 14 23:33	10° ♄ 38'50	18°25'53
	9592 Jan 03 20:46	0° ♄			9592 Dec 27 16:46	0° ♄	
morning set	9592 Jan 17 05:24	22° ♄ 03'02		morning set	9592 Dec 30 21:36	6° ♄ 04'59	
	9592 Jan 21 13:48	0° ♄					
superior conj	9592 Jan 27 13:20	10° ♄ 39'34	0°18'04	superior conj	9593 Jan 08 23:04	23° ♄ 15'27	0°50'43
minimum elong	9592 Jan 27 14:51	10° ♄ 46'14	0°18'06	minimum elong	9593 Jan 09 02:10	23° ♄ 29'44	0°50'36
desc. node	9592 Jan 29 23:01	14° ♄ 49'12			9593 Jan 12 16:17	0° ♄	
max. Earth dist.	9592 Feb 04 02:05	23° ♄ 26'47	1.42572 AU	desc. node	9593 Jan 15 19:54	5° ♄ 32'18	
	9592 Feb 08 02:46	0° ♄		max. Earth dist.	9593 Jan 16 11:06	6° ♄ 37'53	1.40537 AU
evening rise	9592 Feb 10 02:39	3° ♄ 10'46		evening rise	9593 Jan 20 19:55	14° ♄ 00'01	
					9593 Jan 30 22:25	0° ♄	

	9593 Feb 22 04:49	0°♿		evening max el	9594 Feb 06 21:19	16°♿02'13	24°53'28
evening max el	9593 Feb 24 07:56	2°♿13'49	23°35'09	retrograde	9594 Feb 18 16:20	22°♿54'10	
retrograde	9593 Mar 07 01:40	8°♿34'14		evening set	9594 Feb 24 07:34	20°♿33'25	
asc. node	9593 Mar 10 15:59	7°♿32'01		asc. node	9594 Feb 25 13:10	19°♿24'00	
evening set	9593 Mar 12 04:40	6°♿25'47		min. Earth dist.	9594 Feb 28 19:44	15°♿29'28	0.67907 AU
min. Earth dist.	9593 Mar 17 00:35	0°♿47'14	0.68431 AU	inferior conj	9594 Mar 01 21:40	14°♿03'56	1°22'29
inferior conj	9593 Mar 17 14:52	29°♿58'17	2°04'58	minimum elong	9594 Mar 01 19:53	14°♿09'48	1°21'57
minimum elong	9593 Mar 17 12:40	0°♿05'48	2°04'18	morning rise	9594 Mar 07 08:27	8°♿06'39	
	9593 Mar 17 14:22	30°♿♿		direct	9594 Mar 11 00:21	6°♿49'38	
morning rise	9593 Mar 22 20:40	23°♿53'42		morning max el	9594 Mar 18 07:22	10°♿53'01	19°38'12
direct	9593 Mar 27 01:11	22°♿15'18		greatest brilliancy	9594 Mar 31 00:15	27°♿25'55	-0.7m
morning max el	9593 Apr 04 05:56	26°♿56'22	20°46'25	desc. node	9594 Mar 31 17:02	28°♿27'42	
	9593 Apr 07 01:49	0°♿			9594 Apr 01 17:57	0°♿	
desc. node	9593 Apr 13 20:11	8°♿40'39		morning set	9594 Apr 12 22:36	16°♿59'37	
	9593 Apr 28 10:19	0°♿			9594 Apr 21 07:34	0°♿	
morning set	9593 May 04 00:25	8°♿35'55		max. Earth dist.	9594 Apr 24 18:58	5°♿28'33	1.44649 AU
max. Earth dist.	9593 May 12 06:57	21°♿43'37	1.43170 AU				
	9593 May 17 07:53	0°♿		superior conj	9594 Apr 29 07:41	12°♿42'07	-2°12'35
superior conj	9593 May 19 01:50	2°♿55'29	-2°05'14	minimum elong	9594 Apr 29 06:59	12°♿39'19	2°12'48
minimum elong	9593 May 19 06:41	3°♿15'54	2°05'17		9594 May 09 20:46	0°♿	
evening rise	9593 May 31 02:29	23°♿47'06		evening rise	9594 May 13 01:55	5°♿23'53	
	9593 Jun 03 14:47	0°♿		asc. node	9594 May 24 11:39	24°♿13'01	
asc. node	9593 Jun 06 14:34	5°♿12'05			9594 May 28 13:05	0°♿	
evening max el	9593 Jun 16 21:23	19°♿58'36	18°04'46	evening max el	9594 May 31 11:01	3°♿20'48	18°12'43
retrograde	9593 Jun 23 10:59	23°♿21'12		retrograde	9594 Jun 06 19:56	6°♿42'53	
evening set	9593 Jun 26 01:09	22°♿49'24		evening set	9594 Jun 09 17:46	5°♿57'58	
inferior conj	9593 Jul 02 14:38	17°♿47'43	2°12'56	inferior conj	9594 Jun 15 18:28	0°♿38'14	2°53'54
minimum elong	9593 Jul 02 17:31	17°♿40'33	2°11'48	minimum elong	9594 Jun 15 20:43	0°♿31'57	2°53'08
min. Earth dist.	9593 Jul 05 17:30	14°♿44'05	0.61296 AU		9594 Jun 16 08:09	30°♿♿	
morning rise	9593 Jul 09 07:28	11°♿47'33		min. Earth dist.	9594 Jun 18 08:55	27°♿45'22	0.63467 AU
desc. node	9593 Jul 10 19:45	10°♿52'47		morning rise	9594 Jun 21 22:10	24°♿24'58	
direct	9593 Jul 15 23:08	9°♿31'45		desc. node	9594 Jun 27 16:51	21°♿51'45	
morning max el	9593 Jul 30 05:11	17°♿32'09	27°55'47	direct	9594 Jun 28 15:39	21°♿48'47	
	9593 Aug 09 14:12	0°♿		morning max el	9594 Jul 12 13:36	29°♿51'45	27°45'04
	9593 Aug 27 17:36	0°♿			9594 Jul 12 16:52	0°♿	
morning set	9593 Sep 01 10:09	9°♿20'47		morning set	9594 Aug 03 14:13	0°♿	
asc. node	9593 Sep 02 14:19	11°♿47'01			9594 Aug 16 06:02	23°♿11'19	
max. Earth dist.	9593 Sep 07 04:53	21°♿39'36	1.31796 AU	asc. node	9594 Aug 19 14:07	0°♿	
				max. Earth dist.	9594 Aug 20 11:13	1°♿50'18	
superior conj	9593 Sep 08 18:48	25°♿07'48	0°58'45		9594 Aug 21 07:08	3°♿35'22	1.32554 AU
minimum elong	9593 Sep 08 16:38	24°♿55'52	0°58'20	superior conj	9594 Aug 24 02:04	9°♿33'42	0°35'37
	9593 Sep 10 23:44	0°♿		minimum elong	9594 Aug 24 00:29	9°♿25'05	0°35'10
evening rise	9593 Sep 15 12:58	9°♿57'11		evening rise	9594 Aug 31 00:32	24°♿35'56	
	9593 Sep 25 16:52	0°♿			9594 Sep 02 14:08	0°♿	
desc. node	9593 Oct 06 18:02	16°♿31'46			9594 Sep 21 01:44	0°♿	
evening max el	9593 Oct 11 15:47	21°♿52'54	24°56'24	evening max el	9594 Sep 23 02:47	2°♿06'51	23°18'04
retrograde	9593 Oct 25 12:02	28°♿50'51		desc. node	9594 Sep 23 15:14	2°♿36'31	
evening set	9593 Oct 31 01:58	27°♿40'39		retrograde	9594 Oct 06 13:07	8°♿48'57	
min. Earth dist.	9593 Nov 05 03:18	24°♿57'22	0.56920 AU	evening set	9594 Oct 10 16:44	8°♿11'24	
inferior conj	9593 Nov 07 21:22	23°♿09'31	-5°27'54	min. Earth dist.	9594 Oct 17 12:24	5°♿01'02	0.55423 AU
minimum elong	9593 Nov 08 02:21	23°♿01'19	5°27'03	inferior conj	9594 Oct 19 05:23	4°♿01'07	-5°39'45
morning rise	9593 Nov 16 05:02	19°♿01'26		minimum elong	9594 Oct 19 03:15	4°♿04'15	5°39'28
direct	9593 Nov 18 15:45	18°♿44'29		morning rise	9594 Oct 27 15:40	0°♿09'38	
morning max el	9593 Nov 27 23:24	23°♿11'14	19°16'51		9594 Oct 28 10:46	30°♿♿	
asc. node	9593 Nov 29 14:18	24°♿52'01		direct	9594 Oct 30 14:17	29°♿48'47	
	9593 Dec 03 13:21	0°♿			9594 Nov 01 16:42	0°♿	
morning set	9593 Dec 14 22:43	20°♿30'43		morning max el	9594 Nov 10 10:29	4°♿55'11	20°30'25
	9593 Dec 19 16:42	0°♿		asc. node	9594 Nov 16 11:18	12°♿05'54	
					9594 Nov 26 16:26	0°♿	
superior conj	9593 Dec 23 02:11	6°♿40'34	1°14'46	morning set	9594 Nov 29 05:34	5°♿10'20	
minimum elong	9593 Dec 23 05:14	6°♿55'20	1°14'46				
max. Earth dist.	9593 Dec 29 16:55	19°♿06'47	1.38342 AU	superior conj	9594 Dec 06 17:54	20°♿40'18	1°30'33
evening rise	9594 Jan 02 10:58	25°♿47'13		minimum elong	9594 Dec 06 20:02	20°♿51'06	1°30'43
desc. node	9594 Jan 02 16:51	26°♿12'49			9594 Dec 11 10:32	0°♿	
	9594 Jan 04 21:47	0°♿		max. Earth dist.	9594 Dec 12 00:21	1°♿06'45	1.36242 AU
	9594 Jan 24 13:03	0°♿		evening rise	9594 Dec 15 21:27	8°♿24'50	

desc. node	9594 Dec 20 13:50	16°  45'56		max. Earth dist.	9595 Nov 24 14:13	13°  00'11	1.34434 AU
	9594 Dec 28 14:54	0° 		evening rise	9595 Nov 28 23:42	21°  43'30	
evening max el	9595 Jan 20 10:40	29°  50'33	26°02'59		9595 Dec 03 09:51	0° 	
	9595 Jan 20 14:34	0° 		desc. node	9595 Dec 07 10:52	7°  07'05	
retrograde	9595 Feb 02 02:04	7°  02'19			9595 Dec 22 10:32	0° 	
evening set	9595 Feb 08 05:27	4°  32'21		evening max el	9596 Jan 03 00:11	13°  31'25	26°56'13
asc. node	9595 Feb 12 10:20	0° 		retrograde	9596 Jan 16 06:00	20°  51'44	
min. Earth dist.	9595 Feb 12 11:06	0°  03'00	0.66992 AU	evening set	9596 Jan 22 20:23	18°  17'12	
	9595 Feb 12 12:05	30° 		min. Earth dist.	9596 Jan 26 20:18	14°  22'04	0.65705 AU
inferior conj	9595 Feb 14 00:37	28°  06'17	0°31'18	inferior conj	9596 Jan 28 21:32	12°  00'30	-0°28'15
minimum elong	9595 Feb 13 23:49	28°  08'46	0°31'11	minimum elong	9596 Jan 28 22:20	11°  58'12	0°27'37
morning rise	9595 Feb 19 18:50	22°  18'10		asc. node	9596 Jan 30 07:29	10°  24'32	
direct	9595 Feb 22 23:26	21°  20'05		morning rise	9596 Feb 04 01:29	6°  24'05	
morning max el	9595 Mar 01 16:12	24°  58'05	18°45'28	direct	9596 Feb 06 20:28	5°  41'37	
	9595 Mar 06 00:08	0° 		morning max el	9596 Feb 13 06:37	9°  06'00	18°09'22
desc. node	9595 Mar 18 13:53	18°  35'57			9596 Feb 27 21:32	0° 	
morning set	9595 Mar 23 09:31	26°  07'19		morning set	9596 Mar 03 00:17	6°  40'05	
	9595 Mar 25 21:01	0° 		desc. node	9596 Mar 04 10:43	8°  59'32	
max. Earth dist.	9595 Apr 07 12:14	19°  45'13	1.45469 AU		9596 Mar 17 14:37	0° 	
superior conj	9595 Apr 08 18:10	21°  42'33	-2°00'20	superior conj	9596 Mar 18 00:33	0°  39'02	-1°29'10
minimum elong	9595 Apr 08 10:30	21°  12'27	1°59'58	minimum elong	9596 Mar 17 15:14	0°  02'27	1°28'07
	9595 Apr 14 00:38	0° 		max. Earth dist.	9596 Mar 20 08:13	4°  17'28	1.45549 AU
evening rise	9595 Apr 24 01:49	16°  01'08		evening rise	9596 Apr 03 03:29	25°  47'19	
greatest brilliancy	9595 Apr 30 20:09	26°  53'29	-0.9m		9596 Apr 05 20:36	0° 	
	9595 May 02 19:01	0° 		greatest brilliancy	9596 Apr 15 08:37	14°  35'44	-0.7m
asc. node	9595 May 11 08:45	12°  42'13			9596 Apr 26 18:32	0° 	
evening max el	9595 May 14 23:07	16°  54'16	18°38'46	asc. node	9596 Apr 27 05:52	0°  29'23	
retrograde	9595 May 21 12:31	20°  29'19		evening max el	9596 Apr 27 07:20	0°  33'04	19°21'47
evening set	9595 May 24 18:07	19°  29'53		retrograde	9596 May 04 09:24	4°  33'20	
inferior conj	9595 May 30 09:52	13°  25'32	3°14'54	evening set	9596 May 07 23:14	3°  21'84	
minimum elong	9595 May 30 10:56	13°  25'01	3°14'29		9596 May 11 09:04	30° 	
min. Earth dist.	9595 Jun 01 09:20	11°  28'56	0.65343 AU	inferior conj	9596 May 13 09:24	27°  27'00	3°20'02
morning rise	9595 Jun 05 02:59	7°  23'48		minimum elong	9596 May 13 09:15	27°  27'30	3°19'46
direct	9595 Jun 11 15:51	4°  49'49		min. Earth dist.	9596 May 14 17:42	25°  41'30	0.66817 AU
desc. node	9595 Jun 14 13:54	5°  18'20		morning rise	9596 May 18 18:53	21°  07'31	
morning max el	9595 Jun 24 23:59	12°  42'36	27°01'15	direct	9596 May 24 22:25	18°  25'10	
	9595 Jul 08 20:51	0° 		desc. node	9596 May 31 10:54	20°  46'58	
	9595 Jul 27 04:53	0° 		morning max el	9596 Jun 06 10:17	25°  53'23	25°52'14
morning set	9595 Jul 30 16:02	6°  31'22			9596 Jun 10 04:44	0° 	
max. Earth dist.	9595 Aug 04 00:21	15°  06'16	1.33811 AU		9596 Jul 01 09:55	0° 	
asc. node	9595 Aug 07 08:08	21°  05'28		morning set	9596 Jul 12 12:20	19°  01'03	
superior conj	9595 Aug 08 04:00	23°  04'31	0°08'16	max. Earth dist.	9596 Jul 16 07:05	26°  15'52	1.35542 AU
minimum elong	9595 Aug 08 03:35	23°  03'17	0°07'56		9596 Jul 18 05:25	0° 	
behind sun begin	9595 Aug 07 22:38	23°  01'12		superior conj	9596 Jul 21 21:54	7°  20'05	-0°22'32
behind sun end	9595 Aug 08 08:32	24°  04'17		minimum elong	9596 Jul 21 23:15	7°  26'55	0°22'34
	9595 Aug 11 03:43	0° 		asc. node	9596 Jul 24 05:02	12°  00'54	
evening rise	9595 Aug 15 11:07	9°  09'04		evening rise	9596 Jul 29 18:32	23°  02'34	
	9595 Aug 26 08:46	0° 			9596 Aug 01 23:42	0° 	
evening max el	9595 Sep 04 17:45	12°  22'04	21°40'26	evening max el	9596 Aug 16 20:09	23°  08'57	20°16'49
desc. node	9595 Sep 10 12:26	16°  46'02		desc. node	9596 Aug 27 09:38	28°  03'38	
retrograde	9595 Sep 17 03:10	18°  31'19		retrograde	9596 Aug 27 15:50	28°  03'48	
evening set	9595 Sep 19 21:20	18°  14'07		evening set	9596 Aug 29 15:16	28°  20'51	
inferior conj	9595 Sep 28 23:51	14°  16'30	-4°56'40	inferior conj	9596 Sep 07 17:39	24°  02'49	-3°23'10
minimum elong	9595 Sep 28 14:59	14°  28'52	4°54'46	minimum elong	9596 Sep 07 08:50	24°  03'47	3°20'16
min. Earth dist.	9595 Sep 28 20:11	14°  21'37	0.54687 AU	min. Earth dist.	9596 Sep 09 05:21	23°  03'20	0.54879 AU
morning rise	9595 Oct 07 09:44	10°  27'36		morning rise	9596 Sep 16 01:34	20°  01'54	
direct	9595 Oct 11 00:26	9°  25'09		direct	9596 Sep 20 10:07	19°  01'56	
morning max el	9595 Oct 23 08:27	15°  49'49	22°04'21	morning max el	9596 Oct 03 21:48	26°  08'48	23°50'21
asc. node	9595 Nov 03 08:15	0° 			9596 Oct 07 13:59	0° 	
	9595 Nov 03 05:21	0° 		asc. node	9596 Oct 20 05:09	18°  25'14	
morning set	9595 Nov 13 15:48	19°  57'32			9596 Oct 25 20:53	0° 	
	9595 Nov 18 09:10	0° 		morning set	9596 Oct 28 03:28	4°  46'21	
superior conj	9595 Nov 20 18:31	5°  04'16	1°38'48	superior conj	9596 Nov 04 01:02	19°  43'31	1°40'18
minimum elong	9595 Nov 20 19:24	5°  08'59	1°39'04	minimum elong	9596 Nov 04 00:43	19°  41'47	1°40'32

max. Earth dist.	9596 Nov 06 12:14	25° \mathbb{M} 01'55	1.33026 AU	superior conj	9597 Oct 19 11:09	4° \mathbb{M} 30'52	1°35'41
	9596 Nov 08 20:48	0° \mathbb{M}		minimum elong	9597 Oct 19 09:49	4° \mathbb{M} 23'33	1°35'47
evening rise	9596 Nov 11 13:57	5° \mathbb{M} 33'20		max. Earth dist.	9597 Oct 20 17:06	7° \mathbb{M} 15'49	1.32072 AU
desc. node	9596 Nov 23 07:57	27° \mathbb{M} 10'09		evening rise	9597 Oct 26 13:05	19° \mathbb{M} 46'10	
	9596 Nov 25 01:16	0° \mathbb{M}			9597 Oct 31 16:00	0° \mathbb{M}	
evening max el	9596 Dec 15 12:42	26° \mathbb{M} 53'27	27°26'04	desc. node	9597 Nov 10 05:02	16° \mathbb{M} 47'10	
	9596 Dec 19 03:01	0° \mathbb{M}			9597 Nov 19 07:28	0° \mathbb{M}	
retrograde	9596 Dec 29 03:32	4° \mathbb{M} 14'17		evening max el	9597 Nov 27 22:06	9° \mathbb{M} 43'40	27°26'17
evening set	9597 Jan 05 02:03	1° \mathbb{M} 41'42		retrograde	9597 Dec 11 18:01	17° \mathbb{M} 00'05	
	9597 Jan 07 03:20	30° \mathbb{R} \mathbb{M}		evening set	9597 Dec 18 19:28	14° \mathbb{M} 38'27	
min. Earth dist.	9597 Jan 08 21:11	28° \mathbb{M} 18'57	0.64075 AU	min. Earth dist.	9597 Dec 22 12:08	11° \mathbb{M} 42'50	0.62162 AU
inferior conj	9597 Jan 11 09:55	25° \mathbb{M} 40'40	-1°35'14	inferior conj	9597 Dec 25 10:46	8° \mathbb{M} 58'53	-2°47'26
minimum elong	9597 Jan 11 12:55	25° \mathbb{M} 32'52	1°33'40	minimum elong	9597 Dec 25 16:15	8° \mathbb{M} 46'07	2°45'02
asc. node	9597 Jan 16 04:35	21° \mathbb{M} 20'22		morning rise	9598 Jan 01 15:24	3° \mathbb{M} 54'46	
morning rise	9597 Jan 18 01:35	20° \mathbb{M} 18'51		asc. node	9598 Jan 03 01:40	3° \mathbb{M} 35'26	
direct	9597 Jan 20 12:47	19° \mathbb{M} 48'18		direct	9598 Jan 03 21:13	3° \mathbb{M} 32'27	
morning max el	9597 Jan 26 23:54	23° \mathbb{M} 09'46	17°50'22	morning max el	9598 Jan 10 16:53	7° \mathbb{M} 00'31	17°49'01
	9597 Feb 01 10:42	0° \mathbb{M}			9598 Jan 25 15:27	0° \mathbb{M}	
morning set	9597 Feb 12 19:18	18° \mathbb{M} 35'37		morning set	9598 Jan 26 12:35	1° \mathbb{M} 34'13	
desc. node	9597 Feb 19 07:34	29° \mathbb{M} 33'51		desc. node	9598 Feb 06 04:25	20° \mathbb{M} 14'20	
	9597 Feb 19 13:51	0° \mathbb{M}					
superior conj	9597 Feb 25 21:19	10° \mathbb{M} 21'14	-0°47'11	superior conj	9598 Feb 06 18:19	21° \mathbb{M} 13'20	-0°04'21
minimum elong	9597 Feb 25 16:06	10° \mathbb{M} 00'08	0°46'19	minimum elong	9598 Feb 06 17:56	21° \mathbb{M} 11'40	0°04'03
max. Earth dist.	9597 Mar 03 03:41	18° \mathbb{M} 46'44	1.44885 AU	behind sun begin	9598 Feb 06 09:23	20° \mathbb{M} 35'25	
	9597 Mar 10 07:50	0° \mathbb{M}		behind sun end	9598 Feb 07 02:28	21° \mathbb{M} 47'51	
evening rise	9597 Mar 13 16:02	5° \mathbb{M} 08'55			9598 Feb 12 00:49	0° \mathbb{M}	
	9597 Mar 30 06:59	0° \mathbb{M}		max. Earth dist.	9598 Feb 13 19:36	2° \mathbb{M} 54'07	1.43563 AU
evening max el	9597 Apr 10 10:13	14° \mathbb{M} 14'01	20°20'02	evening rise	9598 Feb 21 06:16	14° \mathbb{M} 42'26	
asc. node	9597 Apr 14 03:01	17° \mathbb{M} 22'06			9598 Mar 03 08:09	0° \mathbb{M}	
retrograde	9597 Apr 18 08:04	18° \mathbb{M} 49'38		evening max el	9598 Mar 24 07:31	27° \mathbb{M} 55'37	21°30'36
evening set	9597 Apr 22 06:53	17° \mathbb{M} 19'34			9598 Mar 26 12:41	0° \mathbb{M}	
inferior conj	9597 Apr 27 14:19	11° \mathbb{M} 14'25	3°12'19	asc. node	9598 Apr 01 00:11	3° \mathbb{M} 04'41	
minimum elong	9597 Apr 27 13:09	11° \mathbb{M} 18'26	3°11'59	retrograde	9598 Apr 02 06:21	3° \mathbb{M} 12'34	
min. Earth dist.	9597 Apr 28 08:22	10° \mathbb{M} 12'47	0.67842 AU	evening set	9598 Apr 06 15:13	1° \mathbb{M} 27'15	
morning rise	9597 May 02 19:10	4° \mathbb{M} 56'56			9598 Apr 08 04:03	30° \mathbb{R} \mathbb{M}	
direct	9597 May 08 10:32	2° \mathbb{M} 26'17		inferior conj	9598 Apr 11 22:15	25° \mathbb{M} 11'01	2°53'44
desc. node	9597 May 18 07:50	7° \mathbb{M} 47'51		minimum elong	9598 Apr 11 20:22	25° \mathbb{M} 17'34	2°53'15
morning max el	9597 May 19 19:51	9° \mathbb{M} 15'37	24°27'45	min. Earth dist.	9598 Apr 12 03:10	24° \mathbb{M} 53'53	0.68414 AU
	9597 Jun 05 04:11	0° \mathbb{M}		morning rise	9598 Apr 17 01:20	18° \mathbb{M} 57'19	
	9597 Jun 24 01:28	0° \mathbb{M}		direct	9598 Apr 22 03:16	16° \mathbb{M} 44'37	
morning set	9597 Jun 24 14:17	0° \mathbb{M} 55'49		morning max el	9598 May 02 05:53	22° \mathbb{M} 44'19	22°57'51
max. Earth dist.	9597 Jun 28 05:39	7° \mathbb{M} 24'01	1.37645 AU	desc. node	9598 May 05 04:45	25° \mathbb{M} 55'24	
					9598 May 08 14:14	0° \mathbb{M}	
superior conj	9597 Jul 05 04:35	20° \mathbb{M} 24'46	-0°55'10		9598 May 29 12:14	0° \mathbb{M}	
minimum elong	9597 Jul 05 08:08	20° \mathbb{M} 41'52	0°54'53	morning set	9598 Jun 05 16:33	11° \mathbb{M} 34'51	
	9597 Jul 10 01:51	0° \mathbb{M}		max. Earth dist.	9598 Jun 10 02:04	19° \mathbb{M} 00'00	1.39914 AU
asc. node	9597 Jul 11 01:58	2° \mathbb{M} 00'04			9598 Jun 16 07:47	0° \mathbb{M}	
evening rise	9597 Jul 13 20:23	7° \mathbb{M} 30'57		superior conj	9598 Jun 17 20:04	2° \mathbb{M} 45'05	-1°27'03
	9597 Jul 26 13:13	0° \mathbb{M}		minimum elong	9598 Jun 18 01:38	3° \mathbb{M} 10'33	1°26'37
evening max el	9597 Jul 30 12:01	4° \mathbb{M} 41'26	19°13'18	evening rise	9598 Jun 27 13:35	21° \mathbb{M} 05'01	
retrograde	9597 Aug 08 15:35	9° \mathbb{M} 13'46		asc. node	9598 Jun 27 22:58	21° \mathbb{M} 49'49	
evening set	9597 Aug 10 12:09	9° \mathbb{M} 03'19			9598 Jul 02 07:11	0° \mathbb{M}	
desc. node	9597 Aug 14 06:48	7° \mathbb{M} 44'34		evening max el	9598 Jul 13 14:57	16° \mathbb{M} 57'07	18°30'55
inferior conj	9597 Aug 19 00:48	4° \mathbb{M} 52'46	-1°28'10	retrograde	9598 Jul 21 09:28	20° \mathbb{M} 50'04	
minimum elong	9597 Aug 18 20:55	4° \mathbb{M} 59'16	1°26'49	evening set	9598 Jul 23 11:33	20° \mathbb{M} 34'07	
min. Earth dist.	9597 Aug 21 18:17	3° \mathbb{M} 03'43	0.55985 AU	inferior conj	9598 Jul 31 04:51	16° \mathbb{M} 04'28	0°17'26
morning rise	9597 Aug 27 02:46	0° \mathbb{M} 11'12		minimum elong	9598 Jul 31 05:30	16° \mathbb{M} 03'14	0°16'56
	9597 Aug 27 14:52	30° \mathbb{R} \mathbb{M}		desc. node	9598 Aug 01 03:56	15° \mathbb{M} 19'06	
direct	9597 Sep 01 06:48	29° \mathbb{M} 09'43		min. Earth dist.	9598 Aug 03 12:35	13° \mathbb{M} 29'45	0.57796 AU
	9597 Sep 05 22:41	0° \mathbb{M}		morning rise	9598 Aug 07 19:53	10° \mathbb{M} 46'04	
morning max el	9597 Sep 15 10:06	6° \mathbb{M} 20'28	25°33'07	direct	9598 Aug 13 18:23	9° \mathbb{M} 16'06	
	9597 Oct 02 16:03	0° \mathbb{M}		morning max el	9598 Aug 28 03:06	16° \mathbb{M} 53'29	26°55'29
asc. node	9597 Oct 07 02:02	8° \mathbb{M} 11'41			9598 Sep 07 22:21	0° \mathbb{M}	
morning set	9597 Oct 12 14:54	19° \mathbb{M} 31'52		asc. node	9598 Sep 23 22:55	27° \mathbb{M} 47'44	
	9597 Oct 17 10:07	0° \mathbb{M}			9598 Sep 25 00:47	0° \mathbb{M}	
				morning set	9598 Sep 27 00:28	4° \mathbb{M} 09'33	

superior conj	9598 Oct 03 22:51	19° Ω 20'17	1°25'27	superior conj	9599 Sep 18 10:17	4° Ω 04'47	1°09'58
minimum elong	9598 Oct 03 20:52	19° Ω 09'12	1°25'20	minimum elong	9599 Sep 18 08:02	3° Ω 52'21	1°09'37
max. Earth dist.	9598 Oct 04 02:04	19° Ω 38'09	1.31590 AU	evening rise	9599 Sep 25 03:48	18° Ω 52'23	
	9598 Oct 08 18:55	0° \mathbb{M}			9599 Sep 30 13:24	0° \mathbb{M}	
evening rise	9598 Oct 10 18:28	4° \mathbb{M} 15'04		desc. node	9599 Oct 14 23:20	23° \mathbb{M} 57'01	
	9598 Oct 24 09:31	0° \mathcal{A}			9599 Oct 19 21:31	0° \mathcal{A}	
desc. node	9598 Oct 28 02:10	5° \mathcal{A} 47'55		evening max el	9599 Oct 22 22:29	3° \mathcal{A} 07'46	25°46'35
evening max el	9598 Nov 10 02:09	21° \mathcal{A} 51'21	26°52'54	retrograde	9599 Nov 05 20:18	10° \mathcal{A} 09'26	
retrograde	9598 Nov 24 00:21	29° \mathcal{A} 00'40		evening set	9599 Nov 12 01:05	8° \mathcal{A} 39'38	
evening set	9598 Nov 30 20:46	27° \mathcal{A} 00'24		min. Earth dist.	9599 Nov 16 11:03	6° \mathcal{A} 03'31	0.58014 AU
min. Earth dist.	9598 Dec 04 16:34	24° \mathcal{A} 22'01	0.60081 AU	inferior conj	9599 Nov 19 12:17	3° \mathcal{A} 54'11	-5°02'26
inferior conj	9598 Dec 07 20:43	21° \mathcal{A} 47'01	-3°59'46	minimum elong	9599 Nov 19 19:23	3° \mathcal{A} 41'35	5°00'44
minimum elong	9598 Dec 08 04:09	21° \mathcal{A} 31'50	3°57'10		9599 Nov 26 04:31	30° \mathbb{R} \mathbb{M}	
morning rise	9598 Dec 15 14:08	17° \mathcal{A} 03'18		morning rise	9599 Nov 27 16:01	29° \mathbb{M} 32'57	
direct	9598 Dec 17 17:55	16° \mathcal{A} 45'39		direct	9599 Nov 29 22:39	29° \mathbb{M} 16'34	
asc. node	9598 Dec 20 22:43	17° \mathcal{A} 26'23			9599 Dec 03 12:58	0° \mathcal{A}	
morning max el	9598 Dec 25 06:09	20° \mathcal{A} 29'24	18°06'32	asc. node	9599 Dec 07 19:45	2° \mathcal{A} 47'26	
	9599 Jan 01 08:50	0° \mathcal{B}		morning max el	9599 Dec 08 11:52	3° \mathcal{A} 24'54	18°44'45
morning set	9599 Jan 09 21:57	15° \mathcal{B} 17'57		morning set	9599 Dec 24 18:25	29° \mathcal{A} 31'29	
	9599 Jan 17 20:32	0° \approx			9599 Dec 25 00:15	0° \mathcal{B}	
superior conj	9599 Jan 19 15:50	3° \approx 14'54	0°32'55	superior conj	9600 Jan 02 09:33	16° \mathcal{B} 13'08	1°01'58
minimum elong	9599 Jan 19 18:17	3° \approx 25'49	0°32'51	minimum elong	9600 Jan 02 12:47	16° \mathcal{B} 28'20	1°01'52
desc. node	9599 Jan 24 01:19	10° \approx 57'52		max. Earth dist.	9600 Jan 09 14:20	29° \mathcal{B} 20'53	1.39613 AU
max. Earth dist.	9599 Jan 27 06:54	16° \approx 27'43	1.41739 AU		9600 Jan 09 23:14	0° \approx	
evening rise	9599 Feb 01 11:42	25° \approx 00'23		desc. node	9600 Jan 10 22:15	1° \approx 40'21	
	9599 Feb 04 15:02	0° \mathcal{H}		evening rise	9600 Jan 13 14:20	6° \approx 14'50	
	9599 Feb 25 05:10	0° \mathcal{Y}			9600 Jan 28 16:41	0° \mathcal{H}	
evening max el	9599 Mar 07 00:23	11° \mathcal{Y} 39'37	22°48'55	evening max el	9600 Feb 17 14:37	25° \mathcal{H} 26'55	24°09'10
retrograde	9599 Mar 17 02:34	17° \mathcal{Y} 37'58			9600 Feb 23 01:22	0° \mathcal{Y}	
asc. node	9599 Mar 18 21:21	17° \mathcal{Y} 22'20		retrograde	9600 Feb 28 19:25	2° \mathcal{Y} 01'19	
evening set	9599 Mar 21 22:37	15° \mathcal{Y} 37'52		asc. node	9600 Mar 04 18:32	0° \mathcal{Y} 06'08	
inferior conj	9599 Mar 27 07:13	9° \mathcal{Y} 13'34	2°25'26		9600 Mar 04 21:36	30° \mathbb{R} \mathcal{H}	
minimum elong	9599 Mar 27 05:00	9° \mathcal{Y} 21'13	2°24'48	evening set	9600 Mar 05 03:36	29° \mathcal{H} 47'30	
min. Earth dist.	9599 Mar 26 23:51	9° \mathcal{Y} 39'07	0.68548 AU	min. Earth dist.	9600 Mar 09 20:08	24° \mathcal{H} 23'41	0.68259 AU
morning rise	9599 Apr 01 11:15	3° \mathcal{Y} 05'09		inferior conj	9600 Mar 10 15:20	23° \mathcal{H} 18'52	1°48'02
direct	9599 Apr 05 23:32	1° \mathcal{Y} 13'45		minimum elong	9600 Mar 10 13:15	23° \mathcal{H} 25'54	1°47'24
morning max el	9599 Apr 14 19:41	6° \mathcal{Y} 21'36	21°31'35	morning rise	9600 Mar 15 22:56	17° \mathcal{H} 17'12	
desc. node	9599 Apr 22 01:38	14° \mathcal{Y} 51'24		direct	9600 Mar 19 22:03	15° \mathcal{H} 47'52	
	9599 May 02 21:50	0° \mathcal{B}		morning max el	9600 Mar 27 16:28	20° \mathcal{H} 11'03	20°15'38
morning set	9599 May 16 15:47	20° \mathcal{B} 59'30			9600 Apr 04 19:03	0° \mathcal{Y}	
	9599 May 22 05:52	0° \mathbb{I}		desc. node	9600 Apr 07 22:30	4° \mathcal{Y} 22'38	
max. Earth dist.	9599 May 23 03:14	1° \mathbb{I} 27'50	1.42082 AU	morning set	9600 Apr 24 17:49	29° \mathcal{Y} 29'49	
					9600 Apr 25 01:38	0° \mathcal{B}	
superior conj	9599 May 30 15:45	14° \mathbb{I} 10'41	-1°54'04	max. Earth dist.	9600 May 04 12:02	14° \mathcal{B} 50'13	1.43874 AU
minimum elong	9599 May 30 21:49	14° \mathbb{I} 36'57	1°53'52				
	9599 Jun 08 13:06	0° \mathcal{E}		superior conj	9600 May 10 11:41	24° \mathcal{B} 33'28	-2°10'29
evening rise	9599 Jun 10 18:14	4° \mathcal{E} 01'58		minimum elong	9600 May 10 14:41	24° \mathcal{B} 45'52	2°10'41
asc. node	9599 Jun 14 19:59	11° \mathcal{E} 25'18			9600 May 13 18:20	0° \mathbb{I}	
evening max el	9599 Jun 27 00:59	29° \mathcal{E} 46'23	18°08'45	evening rise	9600 May 23 05:44	16° \mathbb{I} 11'18	
	9599 Jun 27 06:35	0° \mathcal{Q}			9600 May 31 07:05	0° \mathcal{E}	
retrograde	9599 Jul 03 21:40	3° \mathcal{Q} 15'16		asc. node	9600 May 31 17:04	0° \mathcal{E} 41'07	
evening set	9599 Jul 06 07:32	2° \mathcal{Q} 49'58		evening max el	9600 Jun 09 14:17	12° \mathcal{E} 59'24	18°05'54
	9599 Jul 10 23:09	30° \mathbb{R} \mathcal{E}		retrograde	9600 Jun 16 00:32	16° \mathcal{E} 19'52	
inferior conj	9599 Jul 13 06:12	27° \mathcal{E} 59'40	1°38'26	evening set	9600 Jun 18 18:05	15° \mathcal{E} 42'33	
minimum elong	9599 Jul 13 08:53	27° \mathcal{E} 53'32	1°37'15	inferior conj	9600 Jun 25 01:36	10° \mathcal{E} 32'47	2°33'00
min. Earth dist.	9599 Jul 16 13:45	24° \mathcal{E} 59'53	0.59994 AU	minimum elong	9600 Jun 25 04:20	10° \mathcal{E} 25'38	2°32'01
desc. node	9599 Jul 19 01:05	23° \mathcal{E} 02'05		min. Earth dist.	9600 Jun 27 23:36	7° \mathcal{E} 31'34	0.62246 AU
morning rise	9599 Jul 20 07:18	22° \mathcal{E} 12'00		morning rise	9600 Jul 01 12:38	4° \mathcal{E} 26'11	
direct	9599 Jul 26 18:57	20° \mathcal{E} 11'46		desc. node	9600 Jul 04 22:12	2° \mathcal{E} 35'49	
morning max el	9599 Aug 10 02:56	28° \mathcal{E} 05'37	27°44'45	direct	9600 Jul 08 05:58	2° \mathcal{E} 00'45	
	9599 Aug 11 23:20	0° \mathcal{Q}		morning max el	9600 Jul 22 08:58	10° \mathcal{E} 02'36	27°55'45
	9599 Sep 01 16:58	0° \mathbb{P}			9600 Aug 06 22:05	0° \mathcal{Q}	
asc. node	9599 Sep 10 19:48	17° \mathbb{P} 38'17			9600 Aug 23 23:17	0° \mathbb{P}	
morning set	9599 Sep 11 06:22	18° \mathbb{P} 33'20		morning set	9600 Aug 25 06:37	2° \mathbb{P} 38'07	
	9599 Sep 16 14:00	0° \mathcal{L}		asc. node	9600 Aug 27 16:42	7° \mathbb{P} 38'29	
max. Earth dist.	9599 Sep 17 11:33	1° \mathcal{L} 58'57	1.31587 AU	max. Earth dist.	9600 Aug 30 17:46	14° \mathbb{P} 07'58	1.32066 AU

superior conj	9600 Sep 01 19:38	18° \cap 39'16	0°49'32	minimum elong	9601 Aug 16 23:42	2° \cap 51'16	0°24'05
minimum elong	9600 Sep 01 17:38	18° \cap 28'21	0°49'03	evening rise	9601 Aug 24 02:30	18° \cap 09'36	
	9600 Sep 06 23:48	0° $\underline{\cap}$			9601 Aug 29 21:38	0° $\underline{\cap}$	
evening rise	9600 Sep 08 15:07	3° $\underline{\cap}$ 32'35		evening max el	9601 Sep 14 22:37	23° $\underline{\cap}$ 46'47	22°35'24
	9600 Sep 22 16:43	0° \cap		desc. node	9601 Sep 17 17:42	26° $\underline{\cap}$ 14'18	
desc. node	9600 Sep 30 20:31	10° \cap 54'37			9601 Sep 25 05:29	0° \cap	
evening max el	9600 Oct 03 11:19	13° \cap 37'39	24°15'29	retrograde	9601 Sep 28 00:21	0° \cap 17'54	
retrograde	9600 Oct 17 04:16	20° \cap 29'46			9601 Sep 30 20:33	30° \cap $\underline{\cap}$	
evening set	9600 Oct 22 04:51	19° \cap 34'11		evening set	9601 Oct 01 12:46	29° $\underline{\cap}$ 50'42	
min. Earth dist.	9600 Oct 27 22:05	16° \cap 41'40	0.56219 AU	min. Earth dist.	9601 Oct 09 05:58	26° $\underline{\cap}$ 24'07	0.55004 AU
inferior conj	9600 Oct 30 07:23	15° \cap 13'04	-5°38'47	inferior conj	9601 Oct 10 08:22	25° $\underline{\cap}$ 46'38	-5°28'34
minimum elong	9600 Oct 30 09:46	15° \cap 09'22	5°38'25	minimum elong	9601 Oct 10 02:51	25° $\underline{\cap}$ 54'29	5°27'48
morning rise	9600 Nov 07 16:46	11° \cap 13'16		morning rise	9601 Oct 18 18:45	21° $\underline{\cap}$ 58'54	
direct	9600 Nov 10 08:09	10° \cap 54'56		direct	9601 Oct 21 23:44	21° $\underline{\cap}$ 35'28	
morning max el	9600 Nov 20 06:28	15° \cap 37'06	19°45'22	morning max el	9601 Nov 02 11:50	27° $\underline{\cap}$ 00'01	21°08'16
asc. node	9600 Nov 23 16:44	19° \cap 24'41			9601 Nov 05 08:30	0° \cap	
	9600 Nov 30 14:43	0° \times		asc. node	9601 Nov 10 13:41	7° \cap 02'33	
morning set	9600 Dec 07 22:17	14° \times 04'12		morning set	9601 Nov 22 06:50	28° \cap 48'14	
					9601 Nov 22 20:37	0° \times	
superior conj	9600 Dec 15 18:31	29° \times 54'22	1°22'26	superior conj	9601 Nov 29 14:28	14° \times 06'20	1°34'55
minimum elong	9600 Dec 15 21:15	0° $\underline{\times}$ 07'51	1°22'30	minimum elong	9601 Nov 29 16:05	14° \times 14'42	1°35'09
	9600 Dec 15 19:40	0° $\underline{\times}$		max. Earth dist.	9601 Dec 04 06:14	23° \times 31'33	1.35425 AU
max. Earth dist.	9600 Dec 21 20:34	11° $\underline{\times}$ 36'41	1.37430 AU		9601 Dec 07 14:32	0° $\underline{\times}$	
evening rise	9600 Dec 25 14:01	18° $\underline{\times}$ 24'11		evening rise	9601 Dec 08 07:40	1° $\underline{\times}$ 20'46	
desc. node	9600 Dec 27 19:13	22° $\underline{\times}$ 18'12		desc. node	9601 Dec 14 16:13	12° $\underline{\times}$ 47'14	
	9601 Jan 01 08:25	0° \approx			9601 Dec 25 09:48	0° \approx	
	9601 Jan 21 22:53	0° \times		evening max el	9602 Jan 12 17:07	23° \approx 01'48	26°27'58
evening max el	9601 Jan 30 03:51	9° \times 15'44	25°24'33				
retrograde	9601 Feb 11 07:56	16° \times 17'05					
evening set	9601 Feb 17 04:34	13° \times 51'45					
asc. node	9601 Feb 19 15:43	11° \times 23'29					
min. Earth dist.	9601 Feb 21 13:49	9° \times 02'50	0.67567 AU				
inferior conj	9601 Feb 22 20:43	7° \times 23'15	1°01'48				
minimum elong	9601 Feb 22 19:16	7° \times 27'53	1°01'25				
morning rise	9601 Feb 28 10:23	1° \times 29'53					
direct	9601 Mar 03 21:20	0° \times 21'16					
morning max el	9601 Mar 10 21:14	4° \times 11'57	19°13'51				
greatest brilliancy	9601 Mar 23 21:55	21° \times 28'22	-0.7m				
desc. node	9601 Mar 25 19:20	24° \times 19'21					
	9601 Mar 29 12:44	0° Υ					
morning set	9601 Apr 03 18:36	8° Υ 04'29					
max. Earth dist.	9601 Apr 17 03:03	28° Υ 52'23	1.45082 AU				
	9601 Apr 17 20:13	0° \mathcal{B}					
superior conj	9601 Apr 20 07:57	3° \mathcal{B} 56'09	-2°09'56				
minimum elong	9601 Apr 20 04:03	3° \mathcal{B} 40'42	2°09'59				
evening rise	9601 May 04 19:25	27° \mathcal{B} 23'02					
	9601 May 06 09:26	0° Π					
asc. node	9601 May 18 14:10	19° Π 29'40					
evening max el	9601 May 24 03:31	26° Π 26'45	18°21'35				
retrograde	9601 May 30 13:19	29° Π 53'03					
evening set	9601 Jun 02 14:24	29° Π 02'03					
inferior conj	9601 Jun 08 10:48	23° Π 34'45	3°04'58				
minimum elong	9601 Jun 08 12:35	23° Π 29'33	3°04'22				
min. Earth dist.	9601 Jun 10 18:55	20° Π 52'23	0.64303 AU				
morning rise	9601 Jun 14 09:39	17° Π 18'17					
direct	9601 Jun 21 01:38	14° Π 37'13					
desc. node	9601 Jun 21 19:16	14° Π 39'00					
morning max el	9601 Jul 04 18:44	22° Π 37'32	27°30'11				
	9601 Jul 11 06:41	0° \mathcal{O}					
	9601 Jul 31 04:20	0° \mathcal{O}					
morning set	9601 Aug 08 22:41	16° \mathcal{O} 16'46					
max. Earth dist.	9601 Aug 13 16:46	25° \mathcal{O} 54'35	1.33031 AU				
asc. node	9601 Aug 14 13:36	27° \mathcal{O} 43'28					
	9601 Aug 15 15:31	0° \cap					
superior conj	9601 Aug 17 00:53	2° \cap 57'32	0°24'30				