
































































































































retrograde	6100 Jan 08 16:36	0°♄21'40		retrograde	6106 Mar 29 22:49	20°♄53'40	
	6100 Jan 28 14:07	30°♄14'07		opposition	6106 Jun 05 10:46	17°♄31'50	2°27'42
opposition	6100 Mar 16 19:40	26°♄54'02	1°12'08	min. Earth dist.	6106 Jun 05 11:26	17°♄31'43	8.47586 AU
min. Earth dist.	6100 Mar 16 19:32	26°♄54'03	8.15988 AU	direct	6106 Aug 14 02:01	14°♄05'11	
direct	6100 May 23 02:44	23°♄25'46		evening set	6106 Nov 27 18:04	21°♄53'55	
	6100 Aug 23 13:46	0°♄					
evening set	6100 Sep 04 18:57	1°♄30'15		conjunction	6106 Dec 15 02:16	24°♄02'12	1°54'22
				minimum elong	6106 Dec 15 02:17	24°♄02'13	1°54'24
conjunction	6100 Sep 22 19:35	3°♄47'59	1°10'52	max. Earth dist.	6106 Dec 15 01:13	24°♄01'53	10.51765 AU
minimum elong	6100 Sep 22 19:32	3°♄47'58	1°10'52	morning rise	6107 Jan 01 06:14	26°♄09'15	
max. Earth dist.	6100 Sep 22 19:13	3°♄47'52	10.16276 AU		6107 Feb 04 11:46	0°♄	
morning rise	6100 Oct 10 19:14	6°♄05'29		retrograde	6107 Apr 11 19:26	3°♄36'41	
retrograde	6101 Jan 22 17:21	14°♄07'08		opposition	6107 Jun 18 14:28	0°♄15'54	2°13'19
opposition	6101 Mar 30 15:06	10°♄40'06	1°42'56	min. Earth dist.	6107 Jun 18 15:25	0°♄15'43	8.56158 AU
min. Earth dist.	6101 Mar 30 15:20	10°♄40'03	8.17182 AU		6107 Jun 22 00:17	30°♄♄	
direct	6101 Jun 06 04:55	7°♄11'24		direct	6107 Aug 27 13:21	26°♄50'16	
evening set	6101 Sep 19 11:12	15°♄17'18			6107 Oct 30 03:25	0°♄	
				evening set	6107 Dec 10 20:42	4°♄32'23	
conjunction	6101 Oct 07 10:12	17°♄34'16	1°33'26	conjunction	6107 Dec 28 02:02	6°♄38'48	1°40'17
minimum elong	6101 Oct 07 10:09	17°♄34'15	1°33'26	minimum elong	6107 Dec 28 02:04	6°♄38'48	1°40'19
max. Earth dist.	6101 Oct 07 09:13	17°♄33'57	10.18441 AU	max. Earth dist.	6107 Dec 28 00:54	6°♄38'27	10.60359 AU
morning rise	6101 Oct 25 07:16	19°♄50'42		morning rise	6108 Jan 14 03:25	8°♄44'02	
retrograde	6102 Feb 05 13:09	27°♄48'22		retrograde	6108 Apr 23 10:23	16°♄05'37	
opposition	6102 Apr 13 09:33	24°♄22'10	2°07'40	opposition	6108 Jun 30 14:30	12°♄45'44	1°52'52
min. Earth dist.	6102 Apr 13 10:30	24°♄21'58	8.20352 AU	min. Earth dist.	6108 Jun 30 15:45	12°♄45'30	8.64617 AU
direct	6102 Jun 20 08:24	20°♄53'18		direct	6108 Sep 08 19:47	9°♄21'11	
evening set	6102 Oct 04 00:54	28°♄58'52		evening set	6108 Dec 22 15:21	16°♄56'30	
	6102 Oct 12 03:07	0°♄					
conjunction	6102 Oct 21 21:24	1°♄14'34	1°50'33	conjunction	6109 Jan 08 18:05	19°♄01'10	1°21'44
minimum elong	6102 Oct 21 21:21	1°♄14'34	1°50'34	minimum elong	6109 Jan 08 18:07	19°♄01'10	1°21'46
max. Earth dist.	6102 Oct 21 19:30	1°♄13'58	10.22500 AU	max. Earth dist.	6109 Jan 08 16:32	19°♄00'41	10.68636 AU
morning rise	6102 Nov 08 15:14	3°♄29'28		morning rise	6109 Jan 25 17:22	21°♄04'47	
retrograde	6103 Feb 19 04:55	11°♄22'03		retrograde	6109 May 05 19:49	28°♄21'19	
opposition	6103 Apr 27 02:17	7°♄56'51	2°25'00	opposition	6109 Jul 13 10:44	25°♄02'09	1°27'37
min. Earth dist.	6103 Apr 27 03:52	7°♄56'32	8.25299 AU	min. Earth dist.	6109 Jul 13 11:48	25°♄01'57	8.72556 AU
direct	6103 Jul 04 10:58	4°♄28'08		direct	6109 Sep 21 22:55	21°♄38'40	
evening set	6103 Oct 18 09:54	12°♄31'38		evening set	6110 Jan 04 02:58	29°♄07'25	
					6110 Jan 11 10:43	0°♄	
conjunction	6103 Nov 05 03:19	14°♄45'41	2°01'23	conjunction	6110 Jan 21 03:25	1°♄10'30	0°59'45
minimum elong	6103 Nov 05 03:18	14°♄45'41	2°01'24	minimum elong	6110 Jan 21 03:27	1°♄10'30	0°59'47
max. Earth dist.	6103 Nov 05 00:45	14°♄44'52	10.28214 AU	max. Earth dist.	6110 Jan 21 02:03	1°♄10'05	10.76196 AU
	6103 Nov 07 00:26	15°♄		morning rise	6110 Feb 07 00:53	3°♄12'40	
morning rise	6103 Nov 22 17:33	16°♄58'44		retrograde	6110 May 18 03:35	10°♄25'10	
retrograde	6104 Mar 03 16:10	24°♄45'25		opposition	6110 Jul 26 03:32	7°♄06'28	0°58'54
opposition	6104 May 09 16:25	21°♄21'19	2°34'08	min. Earth dist.	6110 Jul 26 03:47	7°♄06'25	8.79594 AU
min. Earth dist.	6104 May 09 17:53	21°♄21'01	8.31735 AU	direct	6110 Oct 04 19:34	3°♄44'03	
direct	6104 Jul 17 11:15	17°♄53'04		evening set	6111 Jan 16 08:26	11°♄06'44	
evening set	6104 Oct 31 12:24	25°♄52'51					
conjunction	6104 Nov 18 02:38	28°♄05'03	2°05'31	conjunction	6111 Feb 02 06:54	13°♄08'28	0°35'28
minimum elong	6104 Nov 18 02:38	28°♄05'03	2°05'33	minimum elong	6111 Feb 02 06:56	13°♄08'28	0°35'28
max. Earth dist.	6104 Nov 18 00:17	28°♄04'18	10.35265 AU	max. Earth dist.	6111 Feb 02 06:32	13°♄08'21	10.82670 AU
	6104 Dec 03 09:09	0°♄			6111 Feb 17 18:50	15°♄	
morning rise	6104 Dec 05 13:13	0°♄16'06		morning rise	6111 Feb 19 02:43	15°♄09'25	
retrograde	6105 Mar 16 22:02	7°♄56'24		retrograde	6111 May 30 08:48	22°♄19'03	
opposition	6105 May 23 03:21	4°♄33'26	2°34'54	opposition	6111 Aug 07 17:40	19°♄00'37	0°28'05
min. Earth dist.	6105 May 23 04:21	4°♄33'14	8.39304 AU	min. Earth dist.	6111 Aug 07 17:34	19°♄00'38	8.85384 AU
direct	6105 Jul 31 08:54	1°♄05'53		direct	6111 Oct 17 10:35	15°♄39'10	
evening set	6105 Nov 14 07:14	9°♄00'38		evening set	6112 Jan 28 08:49	22°♄56'37	
conjunction	6105 Dec 01 18:25	11°♄10'53	2°03'01	conjunction	6112 Feb 14 05:26	24°♄57'13	0°09'57
minimum elong	6105 Dec 01 18:26	11°♄10'53	2°03'04	minimum elong	6112 Feb 14 05:26	24°♄57'12	0°09'57
max. Earth dist.	6105 Dec 01 16:44	11°♄10'21	10.43261 AU	behind sun begin	6112 Feb 13 23:43	24°♄55'31	
morning rise	6105 Dec 19 01:32	13°♄19'55		behind sun end	6112 Feb 14 11:09	24°♄58'54	

max. Earth dist.	6112 Feb 14 05:11	24° $\approx$ 57'08	10.87719 AU	conjunction	6118 Apr 23 21:14	5° $\mathfrak{S}$ 05'02	-1°55'03
morning rise	6112 Mar 01 23:59	26° $\approx$ 57'14		minimum elong	6118 Apr 23 21:13	5° $\mathfrak{S}$ 05'01	1°55'05
	6112 Mar 29 13:00	0° $\mathfrak{H}$		max. Earth dist.	6118 Apr 23 21:44	5° $\mathfrak{S}$ 05'11	10.82299 AU
retrograde	6112 Jun 10 12:58	4° $\mathfrak{H}$ 05'21		morning rise	6118 May 10 16:42	7° $\mathfrak{S}$ 05'57	
desc. node	6112 Jul 07 16:23	3° $\mathfrak{H}$ 29'27		retrograde	6118 Aug 22 10:35	14° $\mathfrak{S}$ 30'26	
opposition	6112 Aug 19 05:38	0° $\mathfrak{H}$ 46'59	-0°03'34	opposition	6118 Nov 01 00:19	11° $\mathfrak{S}$ 07'59	-2°27'06
min. Earth dist.	6112 Aug 19 06:02	0° $\mathfrak{H}$ 46'55	8.89622 AU	min. Earth dist.	6118 Oct 31 23:25	11° $\mathfrak{S}$ 08'10	8.79465 AU
	6112 Aug 29 19:29	30° $\mathfrak{R}$ $\approx$		direct	6119 Jan 09 02:55	7° $\mathfrak{S}$ 48'30	
direct	6112 Oct 28 21:43	27° $\approx$ 26'22		evening set	6119 Apr 19 05:49	15° $\mathfrak{S}$ 00'58	
	6112 Dec 25 05:44	0° $\mathfrak{H}$			6119 Apr 19 02:35	15° $\mathfrak{S}$	
evening set	6113 Feb 08 05:46	4° $\mathfrak{H}$ 39'42					
conjunction	6113 Feb 25 00:39	6° $\mathfrak{H}$ 39'26	-0°15'53	conjunction	6119 May 06 00:14	17° $\mathfrak{S}$ 02'14	-2°03'16
minimum elong	6113 Feb 25 00:39	6° $\mathfrak{H}$ 39'26	0°15'52	minimum elong	6119 May 06 00:13	17° $\mathfrak{S}$ 02'13	2°03'18
behind sun begin	6113 Feb 24 23:08	6° $\mathfrak{H}$ 38'59		max. Earth dist.	6119 May 06 01:44	17° $\mathfrak{S}$ 02'41	10.76084 AU
behind sun end	6113 Feb 25 02:10	6° $\mathfrak{H}$ 39'53		morning rise	6119 May 22 21:44	19° $\mathfrak{S}$ 04'28	
max. Earth dist.	6113 Feb 24 23:35	6° $\mathfrak{H}$ 39'08	10.91096 AU	retrograde	6119 Sep 04 05:12	26° $\mathfrak{S}$ 34'44	
morning rise	6113 Mar 13 18:24	8° $\mathfrak{H}$ 38'51		opposition	6119 Nov 13 16:44	23° $\mathfrak{S}$ 11'11	-2°34'10
retrograde	6113 Jun 22 15:20	15° $\mathfrak{H}$ 46'48		min. Earth dist.	6119 Nov 13 15:05	23° $\mathfrak{S}$ 11'30	8.72710 AU
opposition	6113 Aug 31 16:02	12° $\mathfrak{H}$ 28'16	-0°34'50	direct	6120 Jan 21 10:44	19° $\mathfrak{S}$ 51'13	
min. Earth dist.	6113 Aug 31 16:56	12° $\mathfrak{H}$ 28'06	8.92134 AU	evening set	6120 Apr 30 12:01	27° $\mathfrak{S}$ 07'16	
direct	6113 Nov 10 04:59	9° $\mathfrak{H}$ 08'20		conjunction	6120 May 17 08:51	29° $\mathfrak{S}$ 10'04	-2°06'08
evening set	6114 Feb 20 00:24	16° $\mathfrak{H}$ 18'45		minimum elong	6120 May 17 08:51	29° $\mathfrak{S}$ 10'04	2°06'10
				max. Earth dist.	6120 May 17 11:16	29° $\mathfrak{S}$ 10'48	10.68832 AU
conjunction	6114 Mar 08 17:56	18° $\mathfrak{H}$ 17'55	-0°40'51		6120 May 24 04:24	0° $\mathfrak{I}$	
minimum elong	6114 Mar 08 17:54	18° $\mathfrak{H}$ 17'55	0°40'50	morning rise	6120 Jun 03 09:07	1° $\mathfrak{I}$ 13'58	
max. Earth dist.	6114 Mar 08 16:37	18° $\mathfrak{H}$ 17'32	10.92712 AU	retrograde	6120 Sep 16 06:42	8° $\mathfrak{I}$ 50'21	
morning rise	6114 Mar 25 11:09	20° $\mathfrak{H}$ 17'00		opposition	6120 Nov 25 12:14	5° $\mathfrak{I}$ 25'45	-2°34'24
retrograde	6114 Jul 04 18:21	27° $\mathfrak{H}$ 26'09		min. Earth dist.	6120 Nov 25 09:55	5° $\mathfrak{I}$ 26'12	8.65043 AU
opposition	6114 Sep 13 01:54	24° $\mathfrak{H}$ 07'11	-1°04'33	direct	6121 Feb 01 20:54	2° $\mathfrak{I}$ 05'09	
min. Earth dist.	6114 Sep 13 02:13	24° $\mathfrak{H}$ 07'08	8.92886 AU	evening set	6121 May 13 00:05	9° $\mathfrak{I}$ 25'37	
direct	6114 Nov 22 11:32	20° $\mathfrak{H}$ 47'46					
evening set	6115 Mar 03 17:49	27° $\mathfrak{H}$ 56'21		conjunction	6121 May 29 23:56	11° $\mathfrak{I}$ 30'16	-2°03'17
				minimum elong	6121 May 29 23:58	11° $\mathfrak{I}$ 30'17	2°03'18
conjunction	6115 Mar 20 10:29	29° $\mathfrak{H}$ 55'15	-1°04'06	max. Earth dist.	6121 May 30 02:08	11° $\mathfrak{I}$ 30'57	10.60838 AU
minimum elong	6115 Mar 20 10:27	29° $\mathfrak{H}$ 55'15	1°04'06	morning rise	6121 Jun 16 03:43	13° $\mathfrak{I}$ 36'09	
max. Earth dist.	6115 Mar 20 10:22	29° $\mathfrak{H}$ 55'13	10.92568 AU	retrograde	6121 Sep 29 13:40	21° $\mathfrak{I}$ 18'46	
	6115 Mar 21 02:21	0° $\mathfrak{Y}$		opposition	6121 Dec 08 11:14	17° $\mathfrak{I}$ 53'10	-2°27'27
morning rise	6115 Apr 06 03:24	1° $\mathfrak{Y}$ 54'17		min. Earth dist.	6121 Dec 08 09:06	17° $\mathfrak{I}$ 53'35	8.56791 AU
retrograde	6115 Jul 17 01:26	9° $\mathfrak{Y}$ 05'49		direct	6122 Feb 14 09:27	14° $\mathfrak{I}$ 31'47	
opposition	6115 Sep 25 11:49	5° $\mathfrak{Y}$ 46'13	-1°31'38	evening set	6122 May 25 18:50	21° $\mathfrak{I}$ 57'26	
min. Earth dist.	6115 Sep 25 11:09	5° $\mathfrak{Y}$ 46'20	8.91903 AU				
direct	6115 Dec 04 16:00	2° $\mathfrak{Y}$ 27'06		conjunction	6122 Jun 11 22:27	24° $\mathfrak{I}$ 04'13	-1°54'31
evening set	6116 Mar 14 11:35	9° $\mathfrak{Y}$ 34'56		minimum elong	6122 Jun 11 22:29	24° $\mathfrak{I}$ 04'14	1°54'33
				max. Earth dist.	6122 Jun 12 00:08	24° $\mathfrak{I}$ 04'44	10.52466 AU
conjunction	6116 Mar 31 03:46	11° $\mathfrak{Y}$ 33'55	-1°24'46	morning rise	6122 Jun 29 06:22	26° $\mathfrak{I}$ 12'19	
minimum elong	6116 Mar 31 03:44	11° $\mathfrak{Y}$ 33'55	1°24'46		6122 Aug 01 21:32	0° $\mathfrak{S}$	
max. Earth dist.	6116 Mar 31 04:27	11° $\mathfrak{Y}$ 34'08	10.90710 AU	retrograde	6122 Oct 12 23:55	4° $\mathfrak{S}$ 00'56	
morning rise	6116 Apr 16 20:53	13° $\mathfrak{Y}$ 33'14		opposition	6122 Dec 21 13:59	0° $\mathfrak{S}$ 34'28	-2°13'14
retrograde	6116 Jul 28 08:50	20° $\mathfrak{Y}$ 48'10		min. Earth dist.	6122 Dec 21 12:20	0° $\mathfrak{S}$ 34'47	8.48347 AU
opposition	6116 Oct 06 22:18	17° $\mathfrak{Y}$ 27'44	-1°55'02		6122 Dec 28 22:09	30° $\mathfrak{R}$ $\mathfrak{I}$	
min. Earth dist.	6116 Oct 06 21:18	17° $\mathfrak{Y}$ 27'55	8.89253 AU	direct	6123 Feb 27 04:25	27° $\mathfrak{I}$ 12'09	
direct	6116 Dec 15 17:50	14° $\mathfrak{Y}$ 08'41			6123 Apr 25 16:21	0° $\mathfrak{S}$	
evening set	6117 Mar 26 06:48	21° $\mathfrak{Y}$ 17'00		evening set	6123 Jun 07 20:54	4° $\mathfrak{S}$ 43'35	
conjunction	6117 Apr 11 22:56	23° $\mathfrak{Y}$ 16'22	-1°41'59	conjunction	6123 Jun 25 04:54	6° $\mathfrak{S}$ 52'41	-1°40'00
minimum elong	6117 Apr 11 22:54	23° $\mathfrak{Y}$ 16'22	1°42'01	minimum elong	6123 Jun 25 04:56	6° $\mathfrak{S}$ 52'42	1°40'01
max. Earth dist.	6117 Apr 11 23:18	23° $\mathfrak{Y}$ 16'29	10.87239 AU	max. Earth dist.	6123 Jun 25 06:29	6° $\mathfrak{S}$ 53'11	10.44110 AU
morning rise	6117 Apr 28 16:56	25° $\mathfrak{Y}$ 16'18		morning rise	6123 Jul 12 17:13	9° $\mathfrak{S}$ 03'06	
	6117 Jun 13 02:54	0° $\mathfrak{S}$		retrograde	6123 Oct 26 15:08	16° $\mathfrak{S}$ 57'16	
retrograde	6117 Aug 09 19:35	2° $\mathfrak{S}$ 35'37		opposition	6124 Jan 03 20:27	13° $\mathfrak{S}$ 30'03	-1°52'03
	6117 Oct 09 04:31	30° $\mathfrak{R}$ $\mathfrak{Y}$		min. Earth dist.	6124 Jan 03 19:02	13° $\mathfrak{S}$ 30'20	8.40119 AU
opposition	6117 Oct 19 10:18	29° $\mathfrak{Y}$ 14'13	-2°13'49	direct	6124 Mar 11 05:00	10° $\mathfrak{S}$ 06'46	
min. Earth dist.	6117 Oct 19 09:39	29° $\mathfrak{Y}$ 14'21	8.85051 AU	evening set	6124 Jun 20 06:53	17° $\mathfrak{S}$ 44'19	
direct	6117 Dec 27 22:00	25° $\mathfrak{Y}$ 55'02					
	6118 Mar 10 10:53	0° $\mathfrak{S}$		conjunction	6124 Jul 07 19:27	19° $\mathfrak{S}$ 55'46	-1°20'07
evening set	6118 Apr 07 04:27	3° $\mathfrak{S}$ 04'54		minimum elong	6124 Jul 07 19:30	19° $\mathfrak{S}$ 55'47	1°20'09

max. Earth dist.	6124 Jul 07 21:37	19°  56'27	10.36181 AU	conjunction	6130 Oct 01 09:13	11°  47'03	1°23'59
morning rise	6124 Jul 25 11:58	22°  08'28		minimum elong	6130 Oct 01 09:10	11°  47'02	1°23'59
	6124 Oct 27 15:39	0°  0		max. Earth dist.	6130 Oct 01 08:23	11°  46'47	10.18093 AU
retrograde	6124 Nov 08 11:47	0°  07'24		morning rise	6130 Oct 19 07:41	14°  03'58	
	6124 Nov 20 08:47	30°  R 		retrograde	6131 Jan 30 20:19	22°  03'30	
opposition	6125 Jan 16 06:27	26°  39'38	-1°24'37	opposition	6131 Apr 07 17:54	18°  03'23	1°57'27
min. Earth dist.	6125 Jan 16 04:39	26°  40'00	8.32538 AU	min. Earth dist.	6131 Apr 07 18:19	18°  03'18	8.19651 AU
direct	6125 Mar 24 09:36	23°  15'22		direct	6131 Jun 14 13:04	15°  09'04	
	6125 Jun 25 23:42	0°  0		evening set	6131 Sep 28 00:58	23°  01'45'2	
evening set	6125 Jul 04 00:48	0°  059'09					
conjunction	6125 Jul 21 17:44	3°  012'50	-0°55'43	conjunction	6131 Oct 15 22:40	25°  031'07	1°43'37
minimum elong	6125 Jul 21 17:46	3°  012'50	0°55'45	minimum elong	6131 Oct 15 22:38	25°  031'06	1°43'38
max. Earth dist.	6125 Jul 21 20:18	3°  013'38	10.29116 AU	max. Earth dist.	6131 Oct 15 21:13	25°  030'39	10.21429 AU
morning rise	6125 Aug 08 14:00	5°  027'36		morning rise	6131 Nov 02 18:00	27°  046'40	
retrograde	6125 Nov 22 12:31	13°  030'15			6131 Nov 21 02:09	0°  M	
opposition	6126 Jan 29 19:56	10°  02'10	-0°52'08	retrograde	6132 Feb 13 15:24	5°  M.41'36	
min. Earth dist.	6126 Jan 29 17:47	10°  02'36	8.26040 AU	opposition	6132 Apr 20 11:47	2°  M.16'25	2°18'09
direct	6126 Apr 06 19:17	6°  036'56		min. Earth dist.	6132 Apr 20 12:35	2°  M.16'15	8.23789 AU
evening set	6126 Jul 18 02:15	14°  026'47			6132 May 21 04:54	30°  R 	
	6126 Jul 22 12:16	15°  0		direct	6132 Jun 27 15:21	28°  048'08	
					6132 Aug 03 19:29	0°  M	
				evening set	6132 Oct 11 12:30	6°  M.52'42	
conjunction	6126 Aug 04 22:52	16°  042'22	-0°27'57	conjunction	6132 Oct 29 07:27	9°  M.07'30	1°57'17
minimum elong	6126 Aug 04 22:53	16°  042'22	0°27'59	minimum elong	6132 Oct 29 07:25	9°  M.07'29	1°57'18
max. Earth dist.	6126 Aug 05 01:13	16°  043'06	10.23324 AU	max. Earth dist.	6132 Oct 29 05:39	9°  M.06'55	10.26265 AU
morning rise	6126 Aug 22 22:08	18°  058'49		morning rise	6132 Nov 15 23:10	11°  M.21'21	
retrograde	6126 Dec 06 15:03	27°  003'53			6132 Dec 17 05:12	15°  M	
opposition	6127 Feb 12 12:18	23°  035'45	-0°16'19	retrograde	6133 Feb 26 06:25	19°  M.10'54	
min. Earth dist.	6127 Feb 12 10:26	23°  036'08	8.21006 AU	opposition	6133 May 04 03:35	15°  M.46'45	2°30'55
direct	6127 Apr 20 10:39	20°  009'37		min. Earth dist.	6133 May 04 05:03	15°  M.46'27	8.29327 AU
asc. node	6127 Jul 29 03:37	27°  040'27			6133 May 13 22:18	15°  R 	
evening set	6127 Aug 01 10:35	28°  005'03		direct	6133 Jul 11 16:21	12°  M.18'44	
	6127 Aug 16 12:57	0°  M			6133 Sep 06 20:32	15°  M	
conjunction	6127 Aug 19 09:51	0°  M.22'02	0°01'44	evening set	6133 Oct 25 18:39	20°  M.20'31	
minimum elong	6127 Aug 19 09:50	0°  M.22'02	0°01'43				
behind sun begin	6127 Aug 19 02:31	0°  M.19'43		conjunction	6133 Nov 12 10:27	22°  M.33'36	2°04'21
behind sun end	6127 Aug 19 17:10	0°  M.24'21		minimum elong	6133 Nov 12 10:26	22°  M.33'35	2°04'23
max. Earth dist.	6127 Aug 19 11:21	0°  M.22'27	10.19143 AU	max. Earth dist.	6133 Nov 12 08:00	22°  M.32'49	10.32419 AU
morning rise	6127 Sep 06 10:56	2°  M.39'35		morning rise	6133 Nov 29 22:31	24°  M.45'34	
retrograde	6127 Dec 20 18:47	10°  M.45'34			6134 Jan 17 00:11	0°  Z	
opposition	6128 Feb 26 06:45	7°  M.17'40	0°20'49	retrograde	6134 Mar 11 15:33	2°  Z.29'03	
min. Earth dist.	6128 Feb 26 05:40	7°  M.17'53	8.17738 AU		6134 May 06 05:57	30°  R 	
direct	6128 May 03 06:14	3°  M.50'43		opposition	6134 May 17 16:29	29°  M.05'59	2°35'20
evening set	6128 Aug 15 00:00	11°  M.50'51		min. Earth dist.	6134 May 17 18:46	29°  M.05'31	8.36053 AU
				direct	6134 Jul 25 15:43	25°  M.38'25	
conjunction	6128 Sep 02 00:39	14°  M.08'37	0°31'25		6134 Oct 08 12:02	0°  Z	
minimum elong	6128 Sep 02 00:38	14°  M.08'36	0°31'25	evening set	6134 Nov 08 17:50	3°  Z.35'57	
max. Earth dist.	6128 Sep 02 01:05	14°  M.08'45	10.16824 AU				
morning rise	6128 Sep 20 02:13	16°  M.26'38		conjunction	6134 Nov 26 06:21	5°  Z.47'07	2°04'43
retrograde	6129 Jan 02 22:02	24°  M.31'57		minimum elong	6134 Nov 26 06:22	5°  Z.47'08	2°04'45
opposition	6129 Mar 11 02:37	21°  M.04'29	0°56'58	max. Earth dist.	6134 Nov 26 03:09	5°  Z.46'07	10.39633 AU
min. Earth dist.	6129 Mar 11 02:18	21°  M.04'32	8.16430 AU	morning rise	6134 Dec 13 14:58	7°  Z.57'08	
direct	6129 May 17 06:06	17°  M.36'53		retrograde	6135 Mar 24 18:14	15°  Z.34'13	
evening set	6129 Aug 29 16:17	25°  M.40'26		opposition	6135 May 31 02:13	12°  Z.12'09	2°31'32
				min. Earth dist.	6135 May 31 04:47	12°  Z.11'39	8.43657 AU
conjunction	6129 Sep 16 17:05	27°  M.58'17	0°59'26	direct	6135 Aug 08 12:19	8°  Z.45'14	
minimum elong	6129 Sep 16 17:03	27°  M.58'16	0°59'25	evening set	6135 Nov 22 08:53	16°  Z.37'15	
max. Earth dist.	6129 Sep 16 16:50	27°  M.58'12	10.16489 AU				
	6129 Oct 02 14:37	0°  Z		conjunction	6135 Dec 09 18:15	18°  Z.46'29	1°58'39
morning rise	6129 Oct 04 17:44	0°  Z.16'05		minimum elong	6135 Dec 09 18:17	18°  Z.46'30	1°58'42
retrograde	6130 Jan 16 22:57	8°  Z.19'13		max. Earth dist.	6135 Dec 09 14:52	18°  Z.45'26	10.47554 AU
opposition	6130 Mar 24 22:42	4°  Z.52'20	1°29'52	morning rise	6135 Dec 26 23:44	20°  Z.54'31	
min. Earth dist.	6130 Mar 24 22:45	4°  Z.52'19	8.17114 AU	retrograde	6136 Apr 05 16:34	28°  Z.25'14	
direct	6130 May 31 09:19	1°  Z.24'16		opposition	6136 Jun 12 08:09	25°  Z.04'04	2°20'10
evening set	6130 Sep 13 09:27	9°  Z.29'44		min. Earth dist.	6136 Jun 12 10:15	25°  Z.03'39	8.51759 AU
				direct	6136 Aug 21 03:36	21°  Z.37'57	

evening set	6136 Dec 04 15:33	29° $\mathbb{X}$ 23'34	retrograde	6142 Jun 17 20:05	11° $\mathbb{X}$ 04'56
	6136 Dec 09 15:13	0° $\mathbb{Z}$	opposition	6142 Aug 26 17:47	7° $\mathbb{X}$ 46'00 -0°21'42
			min. Earth dist.	6142 Aug 26 16:43	7° $\mathbb{X}$ 46'12 8.90107 AU
conjunction	6136 Dec 21 22:08	1° $\mathbb{Z}$ 30'56 1°46'48	direct	6142 Nov 05 09:31	4° $\mathbb{X}$ 25'20
minimum elong	6136 Dec 21 22:10	1° $\mathbb{Z}$ 30'57 1°46'51	evening set	6143 Feb 15 09:03	11° $\mathbb{X}$ 37'00
max. Earth dist.	6136 Dec 21 19:21	1° $\mathbb{Z}$ 30'05 10.55786 AU			
morning rise	6137 Jan 08 00:48	3° $\mathbb{Z}$ 37'07	conjunction	6143 Mar 04 03:20	13° $\mathbb{X}$ 36'27 -0°30'24
retrograde	6137 Apr 18 09:36	11° $\mathbb{Z}$ 01'44	minimum elong	6143 Mar 04 03:18	13° $\mathbb{X}$ 36'27 0°30'23
opposition	6137 Jun 25 10:01	7° $\mathbb{Z}$ 41'20 2°02'11	max. Earth dist.	6143 Mar 04 04:30	13° $\mathbb{X}$ 36'49 10.91342 AU
min. Earth dist.	6137 Jun 25 11:17	7° $\mathbb{Z}$ 41'05 8.59955 AU	morning rise	6143 Mar 20 20:38	15° $\mathbb{X}$ 35'41
direct	6137 Sep 03 13:35	4° $\mathbb{Z}$ 16'06	retrograde	6143 Jun 29 22:56	22° $\mathbb{X}$ 44'07
evening set	6137 Dec 17 14:01	11° $\mathbb{Z}$ 54'59	opposition	6143 Sep 08 03:37	19° $\mathbb{X}$ 24'57 -0°52'10
			min. Earth dist.	6143 Sep 08 02:15	19° $\mathbb{X}$ 25'13 8.92189 AU
conjunction	6138 Jan 03 18:06	14° $\mathbb{Z}$ 00'34 1°30'03	direct	6143 Nov 17 15:13	16° $\mathbb{X}$ 05'01
minimum elong	6138 Jan 03 18:09	14° $\mathbb{Z}$ 00'34 1°30'05	evening set	6144 Feb 27 02:31	23° $\mathbb{X}$ 14'05
max. Earth dist.	6138 Jan 03 16:30	14° $\mathbb{Z}$ 00'04 10.63912 AU			
morning rise	6138 Jan 20 18:20	16° $\mathbb{Z}$ 05'02	conjunction	6144 Mar 14 19:30	25° $\mathbb{X}$ 13'03 -0°54'27
retrograde	6138 Apr 30 22:34	23° $\mathbb{Z}$ 24'13	minimum elong	6144 Mar 14 19:28	25° $\mathbb{X}$ 13'02 0°54'27
opposition	6138 Jul 08 08:10	20° $\mathbb{Z}$ 04'27 1°38'50	max. Earth dist.	6144 Mar 14 20:28	25° $\mathbb{X}$ 13'20 10.92585 AU
min. Earth dist.	6138 Jul 08 09:12	20° $\mathbb{Z}$ 04'15 8.67847 AU	morning rise	6144 Mar 31 12:30	27° $\mathbb{X}$ 12'02
direct	6138 Sep 16 18:22	16° $\mathbb{Z}$ 40'09		6144 Apr 25 18:34	0° $\mathbb{Y}$
evening set	6138 Dec 30 04:53	24° $\mathbb{Z}$ 12'18	retrograde	6144 Jul 11 03:24	4° $\mathbb{Y}$ 22'03
			opposition	6144 Sep 19 13:00	1° $\mathbb{Y}$ 02'30 -1°20'26
conjunction	6139 Jan 16 06:33	26° $\mathbb{Z}$ 16'14 1°09'24	min. Earth dist.	6144 Sep 19 11:53	1° $\mathbb{Y}$ 02'43 8.92626 AU
minimum elong	6139 Jan 16 06:35	26° $\mathbb{Z}$ 16'14 1°09'26		6144 Oct 03 18:10	30° $\mathbb{R}$ $\mathbb{X}$
max. Earth dist.	6139 Jan 16 05:26	26° $\mathbb{Z}$ 15'54 10.71546 AU	direct	6144 Nov 28 19:20	27° $\mathbb{X}$ 43'06
morning rise	6139 Feb 02 04:43	28° $\mathbb{Z}$ 19'10		6145 Jan 21 10:03	0° $\mathbb{Y}$
	6139 Feb 16 15:45	0° $\mathbb{Z}$	evening set	6145 Mar 09 19:37	4° $\mathbb{Y}$ 50'44
retrograde	6139 May 13 08:04	5° $\mathbb{Z}$ 33'49			
opposition	6139 Jul 21 02:48	2° $\mathbb{Z}$ 14'32 1°11'26	conjunction	6145 Mar 26 11:47	6° $\mathbb{Y}$ 49'32 -1°16'15
min. Earth dist.	6139 Jul 21 03:56	2° $\mathbb{Z}$ 14'19 8.75090 AU	minimum elong	6145 Mar 26 11:45	6° $\mathbb{Y}$ 49'32 1°16'16
	6139 Aug 22 10:12	30° $\mathbb{R}$ $\mathbb{Z}$	max. Earth dist.	6145 Mar 26 12:47	6° $\mathbb{Y}$ 49'50 10.92159 AU
direct	6139 Sep 29 16:17	28° $\mathbb{Z}$ 51'11	morning rise	6145 Apr 12 04:51	8° $\mathbb{Y}$ 48'36
	6139 Nov 06 08:33	0° $\mathbb{Z}$	retrograde	6145 Jul 23 08:10	16° $\mathbb{Y}$ 01'19
evening set	6140 Jan 11 13:06	6° $\mathbb{Z}$ 16'59	opposition	6145 Oct 01 22:31	12° $\mathbb{Y}$ 41'14 -1°45'25
			min. Earth dist.	6145 Oct 01 21:01	12° $\mathbb{Y}$ 41'31 8.91397 AU
conjunction	6140 Jan 28 12:28	8° $\mathbb{Z}$ 19'27 0°45'58	direct	6145 Dec 10 22:01	9° $\mathbb{Y}$ 22'11
minimum elong	6140 Jan 28 12:29	8° $\mathbb{Z}$ 19'28 0°45'59	evening set	6146 Mar 21 13:27	16° $\mathbb{Y}$ 29'35
max. Earth dist.	6140 Jan 28 11:11	8° $\mathbb{Z}$ 19'04 10.78368 AU			
morning rise	6140 Feb 14 09:05	10° $\mathbb{Z}$ 21'06	conjunction	6146 Apr 07 05:28	18° $\mathbb{Y}$ 28'33 -1°34'59
	6140 Mar 29 15:18	15° $\mathbb{Z}$	minimum elong	6146 Apr 07 05:26	18° $\mathbb{Y}$ 28'33 1°35'00
retrograde	6140 May 24 12:28	17° $\mathbb{Z}$ 32'19	max. Earth dist.	6146 Apr 07 07:32	18° $\mathbb{Y}$ 29'10 10.90084 AU
	6140 Jul 22 08:18	15° $\mathbb{R}$ $\mathbb{Z}$	morning rise	6146 Apr 23 22:56	20° $\mathbb{Y}$ 27'59
opposition	6140 Aug 01 18:13	14° $\mathbb{Z}$ 13'19 0°41'20	retrograde	6146 Aug 04 17:37	27° $\mathbb{Y}$ 44'30
min. Earth dist.	6140 Aug 01 19:11	14° $\mathbb{Z}$ 13'07 8.81386 AU	opposition	6146 Oct 14 09:12	24° $\mathbb{Y}$ 23'42 -2°06'11
direct	6140 Oct 11 10:28	10° $\mathbb{Z}$ 50'53	min. Earth dist.	6146 Oct 14 06:40	24° $\mathbb{Y}$ 24'10 8.88555 AU
	6140 Dec 24 20:45	15° $\mathbb{Z}$	direct	6146 Dec 23 02:01	21° $\mathbb{Y}$ 04'51
evening set	6141 Jan 22 15:37	18° $\mathbb{Z}$ 11'03	evening set	6147 Apr 02 09:13	28° $\mathbb{Y}$ 13'04
				6147 Apr 17 07:49	0° $\mathbb{Z}$
conjunction	6141 Feb 08 13:01	20° $\mathbb{Z}$ 12'16 0°20'50			
minimum elong	6141 Feb 08 13:02	20° $\mathbb{Z}$ 12'16 0°20'50	conjunction	6147 Apr 19 01:40	0° $\mathbb{Z}$ 12'35 -1°49'50
max. Earth dist.	6141 Feb 08 11:58	20° $\mathbb{Z}$ 11'57 10.84095 AU	minimum elong	6147 Apr 19 01:38	0° $\mathbb{Z}$ 12'34 1°49'52
morning rise	6141 Feb 25 08:22	22° $\mathbb{Z}$ 12'51	max. Earth dist.	6147 Apr 19 04:46	0° $\mathbb{Z}$ 13'31 10.86446 AU
retrograde	6141 Jun 05 16:06	29° $\mathbb{Z}$ 21'53	morning rise	6147 May 05 20:09	2° $\mathbb{Z}$ 12'46
opposition	6141 Aug 14 06:57	26° $\mathbb{Z}$ 02'59 0°09'52	retrograde	6147 Aug 17 07:27	9° $\mathbb{Z}$ 33'54
min. Earth dist.	6141 Aug 14 06:54	26° $\mathbb{Z}$ 02'59 8.86461 AU	opposition	6147 Oct 26 21:34	6° $\mathbb{Z}$ 12'17 -2°21'50
direct	6141 Oct 24 01:03	22° $\mathbb{Z}$ 41'28	min. Earth dist.	6147 Oct 26 18:33	6° $\mathbb{Z}$ 12'51 8.84209 AU
desc. node	6141 Dec 09 15:11	24° $\mathbb{Z}$ 25'15	direct	6148 Jan 04 04:39	2° $\mathbb{Z}$ 53'26
evening set	6142 Feb 03 13:49	29° $\mathbb{Z}$ 56'53	evening set	6148 Apr 13 08:22	10° $\mathbb{Z}$ 03'34
	6142 Feb 04 00:28	0° $\mathbb{X}$			
conjunction	6142 Feb 20 09:34	1° $\mathbb{X}$ 57'05 -0°05'03	conjunction	6148 Apr 30 01:51	12° $\mathbb{Z}$ 03'59 -2°00'10
minimum elong	6142 Feb 20 09:33	1° $\mathbb{X}$ 57'05 0°05'02	minimum elong	6148 Apr 30 01:49	12° $\mathbb{Z}$ 03'58 2°00'12
behind sun begin	6142 Feb 20 02:44	1° $\mathbb{X}$ 55'04	max. Earth dist.	6148 Apr 30 04:34	12° $\mathbb{Z}$ 04'48 10.81389 AU
behind sun end	6142 Feb 20 16:22	1° $\mathbb{X}$ 59'06	morning rise	6148 May 16 22:10	14° $\mathbb{Z}$ 05'16
max. Earth dist.	6142 Feb 20 09:45	1° $\mathbb{X}$ 57'08 10.88477 AU		6148 May 24 17:35	15° $\mathbb{Z}$
morning rise	6142 Mar 09 03:43	3° $\mathbb{X}$ 56'51	retrograde	6148 Aug 28 23:42	21° $\mathbb{Z}$ 31'39
			opposition	6148 Nov 07 12:03	18° $\mathbb{Z}$ 09'11 -2°31'35

min. Earth dist.	6148 Nov 07 09:30	18° <b>8</b> 09'40	8.78525 AU	min. Earth dist.	6155 Jan 23 23:29	4° <b>0</b> 08'03	8.31208 AU
	6149 Jan 01 11:39	15° <b>8</b>		direct	6155 Apr 01 01:00	0° <b>0</b> 43'35	
direct	6149 Jan 15 09:11	14° <b>8</b> 50'04		evening set	6155 Jul 11 23:35	8° <b>0</b> 29'20	
	6149 Jan 29 05:59	15° <b>8</b>					
evening set	6149 Apr 25 11:43	22° <b>8</b> 03'10		conjunction	6155 Jul 29 18:19	10° <b>0</b> 43'42	-0°40'57
				minimum elong	6155 Jul 29 18:20	10° <b>0</b> 43'42	0°40'59
conjunction	6149 May 12 07:02	24° <b>8</b> 04'51	-2°05'23	max. Earth dist.	6155 Jul 29 18:18	10° <b>0</b> 43'42	10.27881 AU
minimum elong	6149 May 12 07:02	24° <b>8</b> 04'51	2°05'25	morning rise	6155 Aug 16 16:17	12° <b>0</b> 29'05	
max. Earth dist.	6149 May 12 09:15	24° <b>8</b> 05'32	10.75106 AU		6155 Sep 02 09:00	15° <b>0</b>	
morning rise	6149 May 29 05:55	26° <b>8</b> 07'36		retrograde	6155 Nov 30 10:05	21° <b>0</b> 01'53	
	6149 Jul 03 13:35	0° <b>0</b>		opposition	6156 Feb 06 13:38	17° <b>0</b> 34'02	-0°33'01
retrograde	6149 Sep 10 20:51	3° <b>0</b> 39'43		min. Earth dist.	6156 Feb 06 13:36	17° <b>0</b> 34'03	8.24894 AU
opposition	6149 Nov 20 05:26	0° <b>0</b> 16'19	-2°34'49		6156 Mar 13 12:35	15° <b>0</b>	
min. Earth dist.	6149 Nov 20 03:25	0° <b>0</b> 16'42	8.71710 AU	direct	6156 Apr 13 14:03	14° <b>0</b> 08'28	
	6149 Nov 23 18:54	30° <b>0</b>			6156 May 14 07:42	15° <b>0</b>	
direct	6150 Jan 27 17:59	26° <b>8</b> 56'43		evening set	6156 Jul 25 03:30	22° <b>0</b> 00'11	
	6150 Mar 29 21:21	0° <b>0</b>					
evening set	6150 May 07 20:05	4° <b>0</b> 13'39		conjunction	6156 Aug 12 01:31	24° <b>0</b> 16'17	-0°12'08
				minimum elong	6156 Aug 12 01:31	24° <b>0</b> 16'17	0°12'09
conjunction	6150 May 24 18:12	6° <b>0</b> 16'59	-2°05'03	behind sun begin	6156 Aug 11 20:41	24° <b>0</b> 14'46	
minimum elong	6150 May 24 18:13	6° <b>0</b> 16'59	2°05'05	behind sun end	6156 Aug 12 06:21	24° <b>0</b> 17'48	
max. Earth dist.	6150 May 24 20:39	6° <b>0</b> 17'44	10.67816 AU	max. Earth dist.	6156 Aug 12 01:36	24° <b>0</b> 16'19	10.22315 AU
morning rise	6150 Jun 10 20:14	8° <b>0</b> 21'30		morning rise	6156 Aug 30 01:48	26° <b>0</b> 33'06	
retrograde	6150 Sep 23 23:10	15° <b>0</b> 59'39			6156 Sep 28 09:01	0° <b>0</b>	
opposition	6150 Dec 03 01:57	12° <b>0</b> 35'15	-2°31'03	retrograde	6156 Dec 13 12:16	4° <b>0</b> 37'48	
min. Earth dist.	6150 Dec 02 23:57	12° <b>0</b> 35'38	8.63991 AU	asc. node	6157 Jan 13 11:09	3° <b>0</b> 47'21	
direct	6151 Feb 09 05:34	9° <b>0</b> 14'59		opposition	6157 Feb 19 06:04	1° <b>0</b> 09'48	0°03'36
evening set	6151 May 20 10:43	16° <b>0</b> 36'35		min. Earth dist.	6157 Feb 19 05:52	1° <b>0</b> 09'50	8.20149 AU
					6157 Mar 05 20:06	30° <b>0</b>	
conjunction	6151 Jun 06 12:28	18° <b>0</b> 41'54	-1°58'56	direct	6157 Apr 27 06:13	27° <b>0</b> 43'11	
minimum elong	6151 Jun 06 12:29	18° <b>0</b> 41'55	1°58'57		6157 Jun 17 09:23	0° <b>0</b>	
max. Earth dist.	6151 Jun 06 15:10	18° <b>0</b> 42'44	10.59755 AU	evening set	6157 Aug 08 13:24	5° <b>0</b> 40'14	
morning rise	6151 Jun 23 18:11	20° <b>0</b> 48'29					
retrograde	6151 Oct 07 06:38	28° <b>0</b> 32'39		conjunction	6157 Aug 26 13:34	7° <b>0</b> 57'30	0°17'42
opposition	6151 Dec 16 01:43	25° <b>0</b> 07'20	-2°20'07	minimum elong	6157 Aug 26 13:34	7° <b>0</b> 57'30	0°17'41
min. Earth dist.	6151 Dec 15 23:39	25° <b>0</b> 07'44	8.55632 AU	max. Earth dist.	6157 Aug 26 13:42	7° <b>0</b> 57'33	10.18456 AU
direct	6152 Feb 21 21:14	21° <b>0</b> 46'12		morning rise	6157 Sep 13 14:55	10° <b>0</b> 15'12	
evening set	6152 Jun 01 08:24	29° <b>0</b> 13'17		retrograde	6157 Dec 27 15:31	18° <b>0</b> 20'17	
	6152 Jun 07 17:06	0° <b>0</b>		opposition	6158 Mar 05 00:19	14° <b>0</b> 52'23	0°40'22
				min. Earth dist.	6158 Mar 05 00:04	14° <b>0</b> 52'26	8.17249 AU
conjunction	6152 Jun 18 14:16	1° <b>0</b> 20'51	-1°47'00	direct	6158 May 11 02:50	11° <b>0</b> 24'51	
minimum elong	6152 Jun 18 14:18	1° <b>0</b> 20'52	1°47'02	evening set	6158 Aug 23 03:34	19° <b>0</b> 26'16	
max. Earth dist.	6152 Jun 18 16:20	1° <b>0</b> 21'30	10.51247 AU				
morning rise	6152 Jul 06 00:11	3° <b>0</b> 29'42		conjunction	6158 Sep 10 04:34	21° <b>0</b> 44'03	0°46'38
retrograde	6152 Oct 19 20:28	11° <b>0</b> 19'43		minimum elong	6158 Sep 10 04:32	21° <b>0</b> 44'03	0°46'38
opposition	6152 Dec 28 05:22	7° <b>0</b> 53'33	-2°02'06	max. Earth dist.	6158 Sep 10 04:14	21° <b>0</b> 43'57	10.16520 AU
min. Earth dist.	6152 Dec 28 03:38	7° <b>0</b> 53'53	8.47039 AU	morning rise	6158 Sep 28 05:39	24° <b>0</b> 01'56	
direct	6153 Mar 05 16:37	4° <b>0</b> 31'25			6158 Nov 22 15:09	0° <b>0</b>	
evening set	6153 Jun 14 13:35	12° <b>0</b> 04'31		retrograde	6159 Jan 10 17:27	2° <b>0</b> 05'54	
					6159 Mar 01 16:59	30° <b>0</b>	
conjunction	6153 Jul 01 23:47	14° <b>0</b> 14'27	-1°29'33	opposition	6159 Mar 18 19:35	28° <b>0</b> 38'21	1°14'58
minimum elong	6153 Jul 01 23:50	14° <b>0</b> 14'28	1°29'35	min. Earth dist.	6159 Mar 18 19:56	28° <b>0</b> 38'17	8.16345 AU
max. Earth dist.	6153 Jul 02 00:51	14° <b>0</b> 14'47	10.42767 AU	direct	6159 May 25 03:07	25° <b>0</b> 10'07	
morning rise	6153 Jul 19 14:06	16° <b>0</b> 25'39			6159 Aug 10 13:49	0° <b>0</b>	
retrograde	6153 Nov 02 14:19	24° <b>0</b> 20'55		evening set	6159 Sep 06 19:59	3° <b>0</b> 14'34	
opposition	6154 Jan 10 12:49	20° <b>0</b> 54'01	-1°37'31				
min. Earth dist.	6154 Jan 10 11:49	20° <b>0</b> 54'13	8.38731 AU	conjunction	6159 Sep 24 20:24	5° <b>0</b> 32'12	1°12'57
direct	6154 Mar 18 17:28	17° <b>0</b> 30'46		minimum elong	6159 Sep 24 20:21	5° <b>0</b> 32'11	1°12'57
evening set	6154 Jun 28 02:42	25° <b>0</b> 10'11		max. Earth dist.	6159 Sep 24 19:04	5° <b>0</b> 31'46	10.16603 AU
				morning rise	6159 Oct 12 19:55	7° <b>0</b> 49'36	
conjunction	6154 Jul 15 17:19	27° <b>0</b> 22'26	-1°07'12	retrograde	6160 Jan 24 16:37	15° <b>0</b> 50'57	
minimum elong	6154 Jul 15 17:22	27° <b>0</b> 22'27	1°07'15	opposition	6160 Mar 31 14:52	12° <b>0</b> 24'02	1°45'14
max. Earth dist.	6154 Jul 15 17:31	27° <b>0</b> 22'29	10.34827 AU	min. Earth dist.	6160 Mar 31 16:02	12° <b>0</b> 23'47	8.17481 AU
morning rise	6154 Aug 02 11:50	29° <b>0</b> 35'53		direct	6160 Jun 07 05:34	8° <b>0</b> 55'20	
	6154 Aug 05 18:22	0° <b>0</b>		evening set	6160 Sep 20 12:04	17° <b>0</b> 01'11	
retrograde	6154 Nov 16 10:58	7° <b>0</b> 35'30					
opposition	6155 Jan 23 23:41	4° <b>0</b> 08'01	-1°07'21	conjunction	6160 Oct 08 10:47	19° <b>0</b> 18'04	1°35'02

minimum elong	6160 Oct 08 10:44	19° <u>♄</u> 18'03	1°35'03	max. Earth dist.	6166 Dec 28 23:26	8° <u>♄</u> 20'05	10.60168 AU
max. Earth dist.	6160 Oct 08 08:34	19° <u>♄</u> 17'22	10.18702 AU	morning rise	6167 Jan 15 02:54	10° <u>♄</u> 25'59	
morning rise	6160 Oct 26 07:44	21° <u>♄</u> 34'24		retrograde	6167 Apr 25 08:42	17° <u>♄</u> 47'39	
retrograde	6161 Feb 06 12:44	29° <u>♄</u> 31'49		opposition	6167 Jul 02 14:23	14° <u>♄</u> 27'44	1°50'27
opposition	6161 Apr 14 09:18	26° <u>♄</u> 05'42	2°09'20	min. Earth dist.	6167 Jul 02 15:36	14° <u>♄</u> 27'29	8.64395 AU
min. Earth dist.	6161 Apr 14 10:58	26° <u>♄</u> 05'22	8.20584 AU	direct	6167 Sep 10 21:14	11° <u>♄</u> 03'08	
direct	6161 Jun 21 08:27	22° <u>♄</u> 36'49		evening set	6167 Dec 24 14:49	18° <u>♄</u> 38'30	
	6161 Sep 29 08:35	0° <u>♄</u>					
evening set	6161 Oct 05 01:23	0° <u>♄</u> 42'19		conjunction	6168 Jan 10 17:31	20° <u>♄</u> 43'11	1°19'35
				minimum elong	6168 Jan 10 17:33	20° <u>♄</u> 43'12	1°19'37
conjunction	6161 Oct 22 21:39	2° <u>♄</u> 57'57	1°51'37	max. Earth dist.	6168 Jan 10 16:03	20° <u>♄</u> 42'44	10.68395 AU
minimum elong	6161 Oct 22 21:37	2° <u>♄</u> 57'56	1°51'38	morning rise	6168 Jan 27 16:48	22° <u>♄</u> 46'50	
max. Earth dist.	6161 Oct 22 18:55	2° <u>♄</u> 57'05	10.22692 AU		6168 Apr 28 14:41	0° <u>♄</u>	
morning rise	6161 Nov 09 15:22	5° <u>♄</u> 12'46		retrograde	6168 May 06 20:16	0° <u>♄</u> 03'33	
retrograde	6162 Feb 20 04:24	13° <u>♄</u> 05'09			6168 May 15 02:10	30° <u>♄</u>	
opposition	6162 Apr 28 01:56	9° <u>♄</u> 39'58	2°25'57	opposition	6168 Jul 14 10:49	26° <u>♄</u> 44'20	1°24'47
min. Earth dist.	6162 Apr 28 03:33	9° <u>♄</u> 39'38	8.25455 AU	min. Earth dist.	6168 Jul 14 11:08	26° <u>♄</u> 44'16	8.72293 AU
direct	6162 Jul 05 11:22	6° <u>♄</u> 11'14		direct	6168 Sep 22 22:48	23° <u>♄</u> 20'52	
evening set	6162 Oct 19 10:08	14° <u>♄</u> 14'39			6168 Dec 29 01:18	0° <u>♄</u>	
	6162 Oct 25 11:19	15° <u>♄</u>		evening set	6169 Jan 05 02:24	0° <u>♄</u> 49'40	
conjunction	6162 Nov 06 03:28	16° <u>♄</u> 28'38	2°01'50	conjunction	6169 Jan 22 02:55	2° <u>♄</u> 52'48	0°57'19
minimum elong	6162 Nov 06 03:27	16° <u>♄</u> 28'38	2°01'52	minimum elong	6169 Jan 22 02:57	2° <u>♄</u> 52'48	0°57'20
max. Earth dist.	6162 Nov 06 00:49	16° <u>♄</u> 27'48	10.28327 AU	max. Earth dist.	6169 Jan 22 02:32	2° <u>♄</u> 52'40	10.75931 AU
morning rise	6162 Nov 23 17:30	18° <u>♄</u> 41'38		morning rise	6169 Feb 08 00:18	4° <u>♄</u> 55'00	
retrograde	6163 Mar 05 15:04	26° <u>♄</u> 28'09		retrograde	6169 May 19 03:47	12° <u>♄</u> 07'44	
opposition	6163 May 11 15:56	23° <u>♄</u> 04'02	2°34'19	opposition	6169 Jul 27 03:47	8° <u>♄</u> 49'01	0°55'47
min. Earth dist.	6163 May 11 17:03	23° <u>♄</u> 03'48	8.31805 AU	min. Earth dist.	6169 Jul 27 03:32	8° <u>♄</u> 49'04	8.79326 AU
direct	6163 Jul 19 12:07	19° <u>♄</u> 35'44		direct	6169 Oct 05 19:08	5° <u>♄</u> 26'37	
evening set	6163 Nov 02 12:25	27° <u>♄</u> 35'27		evening set	6170 Jan 17 08:01	12° <u>♄</u> 49'24	
conjunction	6163 Nov 20 02:38	29° <u>♄</u> 47'36	2°05'22	conjunction	6170 Feb 03 06:28	14° <u>♄</u> 51'10	0°32'50
minimum elong	6163 Nov 20 02:38	29° <u>♄</u> 47'36	2°05'24	minimum elong	6170 Feb 03 06:30	14° <u>♄</u> 51'10	0°32'51
max. Earth dist.	6163 Nov 20 00:45	29° <u>♄</u> 47'00	10.35292 AU	max. Earth dist.	6170 Feb 03 06:40	14° <u>♄</u> 51'13	10.82419 AU
	6163 Nov 21 17:56	0° <u>♄</u>			6170 Feb 04 11:47	15° <u>♄</u>	
morning rise	6163 Dec 07 12:57	1° <u>♄</u> 58'36		morning rise	6170 Feb 20 02:15	16° <u>♄</u> 52'10	
retrograde	6164 Mar 17 21:28	9° <u>♄</u> 38'48		retrograde	6170 May 31 09:38	24° <u>♄</u> 02'03	
opposition	6164 May 24 03:00	6° <u>♄</u> 15'48	2°34'21	opposition	6170 Aug 08 18:09	20° <u>♄</u> 43'37	0°24'48
min. Earth dist.	6164 May 24 03:55	6° <u>♄</u> 15'37	8.39283 AU	min. Earth dist.	6170 Aug 08 18:13	20° <u>♄</u> 43'36	8.85162 AU
direct	6164 Aug 01 08:50	2° <u>♄</u> 48'13		direct	6170 Oct 18 10:36	17° <u>♄</u> 22'12	
evening set	6164 Nov 15 07:00	10° <u>♄</u> 42'52		evening set	6171 Jan 29 08:35	24° <u>♄</u> 39'45	
conjunction	6164 Dec 02 18:06	12° <u>♄</u> 53'06	2°02'17	conjunction	6171 Feb 15 05:02	26° <u>♄</u> 40'21	0°07'16
minimum elong	6164 Dec 02 18:07	12° <u>♄</u> 53'06	2°02'19	minimum elong	6171 Feb 15 05:02	26° <u>♄</u> 40'21	0°07'17
max. Earth dist.	6164 Dec 02 16:41	12° <u>♄</u> 52'39	10.43202 AU	behind sun begin	6171 Feb 14 22:35	26° <u>♄</u> 38'26	
morning rise	6164 Dec 20 01:00	15° <u>♄</u> 02'05		behind sun end	6171 Feb 15 11:29	26° <u>♄</u> 42'16	
retrograde	6165 Mar 30 23:27	22° <u>♄</u> 35'48		max. Earth dist.	6171 Feb 15 04:35	26° <u>♄</u> 40'13	10.87542 AU
opposition	6165 Jun 06 10:33	19° <u>♄</u> 13'56	2°26'26	morning rise	6171 Mar 03 23:39	28° <u>♄</u> 40'25	
min. Earth dist.	6165 Jun 06 11:44	19° <u>♄</u> 13'42	8.47488 AU		6171 Mar 15 11:59	0° <u>♄</u>	
direct	6165 Aug 15 00:34	15° <u>♄</u> 47'14		desc. node	6171 May 31 10:44	5° <u>♄</u> 41'23	
evening set	6165 Nov 28 17:42	23° <u>♄</u> 35'54		retrograde	6171 Jun 12 12:41	5° <u>♄</u> 48'44	
				opposition	6171 Aug 21 06:17	2° <u>♄</u> 30'22	-0°06'52
conjunction	6165 Dec 16 01:45	25° <u>♄</u> 44'11	1°53'04	min. Earth dist.	6171 Aug 21 06:44	2° <u>♄</u> 30'17	8.89502 AU
minimum elong	6165 Dec 16 01:46	25° <u>♄</u> 44'12	1°53'07		6171 Sep 28 06:30	30° <u>♄</u>	
max. Earth dist.	6165 Dec 16 00:11	25° <u>♄</u> 43'42	10.51635 AU	direct	6171 Oct 30 21:09	29° <u>♄</u> 09'48	
morning rise	6166 Jan 02 05:41	27° <u>♄</u> 51'15			6171 Dec 02 00:37	0° <u>♄</u>	
	6166 Jan 20 11:42	0° <u>♄</u>		evening set	6172 Feb 10 05:30	6° <u>♄</u> 23'09	
retrograde	6166 Apr 12 18:22	5° <u>♄</u> 18'40					
opposition	6166 Jun 19 14:16	1° <u>♄</u> 57'51	2°11'26	conjunction	6172 Feb 27 00:17	8° <u>♄</u> 22'52	-0°18'31
min. Earth dist.	6166 Jun 19 15:54	1° <u>♄</u> 57'32	8.55996 AU	minimum elong	6172 Feb 27 00:16	8° <u>♄</u> 22'52	0°18'30
	6166 Jul 16 13:19	30° <u>♄</u>		max. Earth dist.	6172 Feb 26 23:26	8° <u>♄</u> 22'37	10.91032 AU
direct	6166 Aug 28 13:12	28° <u>♄</u> 32'09		morning rise	6172 Mar 14 18:05	10° <u>♄</u> 22'18	
	6166 Oct 09 21:34	0° <u>♄</u>		retrograde	6172 Jun 23 15:01	17° <u>♄</u> 30'27	
evening set	6166 Dec 11 20:16	6° <u>♄</u> 14'17		opposition	6172 Sep 01 16:45	14° <u>♄</u> 11'54	-0°37'59
				min. Earth dist.	6172 Sep 01 16:57	14° <u>♄</u> 11'52	8.92121 AU
conjunction	6166 Dec 29 01:27	8° <u>♄</u> 20'42	1°38'31	direct	6172 Nov 11 06:29	10° <u>♄</u> 52'01	
minimum elong	6166 Dec 29 01:29	8° <u>♄</u> 20'43	1°38'34	evening set	6173 Feb 21 00:04	18° <u>♄</u> 02'25	





























































































































conjunction	6173 Mar 09 17:38	20° <del>✕</del> 01'34 -0°43'19	conjunction	6179 May 19 09:03	0° <del>Π</del> 54'27 -2°05'55
minimum elong	6173 Mar 09 17:37	20° <del>✕</del> 01'34 0°43'19	minimum elong	6179 May 19 09:03	0° <del>Π</del> 54'27 2°05'57
max. Earth dist.	6173 Mar 09 17:28	20° <del>✕</del> 01'31 10.92732 AU	max. Earth dist.	6179 May 19 11:13	0° <del>Π</del> 55'06 10.69000 AU
morning rise	6173 Mar 26 10:46	22° <del>✕</del> 00'38	morning rise	6179 Jun 05 09:31	2° <del>Π</del> 58'22
retrograde	6173 Jul 05 20:12	29° <del>✕</del> 09'58	retrograde	6179 Sep 18 08:06	10° <del>Π</del> 34'39
opposition	6173 Sep 14 02:33	25° <del>✕</del> 51'01 -1°07'26	opposition	6179 Nov 27 12:44	7° <del>Π</del> 10'03 -2°33'46
min. Earth dist.	6173 Sep 14 01:52	25° <del>✕</del> 51'08 8.92937 AU	min. Earth dist.	6179 Nov 27 10:37	7° <del>Π</del> 10'28 8.65217 AU
direct	6173 Nov 23 12:07	22° <del>✕</del> 31'41	direct	6180 Feb 03 19:46	3° <del>Π</del> 49'27
evening set	6174 Mar 04 17:38	29° <del>✕</del> 40'12	evening set	6180 May 14 00:16	11° <del>Π</del> 09'47
	6174 Mar 07 13:05	0° <del>Υ</del>			
conjunction	6174 Mar 21 10:17	1° <del>Υ</del> 39'07 -1°06'19	conjunction	6180 May 31 00:15	13° <del>Π</del> 14'26 -2°02'29
minimum elong	6174 Mar 21 10:15	1° <del>Υ</del> 39'06 1°06'19	minimum elong	6180 May 31 00:17	13° <del>Π</del> 14'26 2°02'31
max. Earth dist.	6174 Mar 21 10:52	1° <del>Υ</del> 39'17 10.92633 AU	max. Earth dist.	6180 May 31 01:43	13° <del>Π</del> 14'53 10.61027 AU
morning rise	6174 Apr 07 03:06	3° <del>Υ</del> 38'08	morning rise	6180 Jun 17 04:22	15° <del>Π</del> 20'20
retrograde	6174 Jul 18 01:48	10° <del>Υ</del> 49'49	retrograde	6180 Sep 30 12:45	23° <del>Π</del> 02'44
opposition	6174 Sep 26 12:32	7° <del>Υ</del> 30'15 -1°34'07	opposition	6180 Dec 09 11:28	19° <del>Π</del> 37'09 -2°26'08
min. Earth dist.	6174 Sep 26 11:38	7° <del>Υ</del> 30'25 8.91990 AU	min. Earth dist.	6180 Dec 09 10:00	19° <del>Π</del> 37'26 8.56984 AU
direct	6174 Dec 05 14:38	4° <del>Υ</del> 11'14	direct	6181 Feb 15 10:11	16° <del>Π</del> 15'43
evening set	6175 Mar 16 11:33	11° <del>Υ</del> 19'03	evening set	6181 May 26 18:57	23° <del>Π</del> 41'14
conjunction	6175 Apr 02 03:36	13° <del>Υ</del> 18'00 -1°26'36	conjunction	6181 Jun 12 22:49	25° <del>Π</del> 48'02 -1°53'12
minimum elong	6175 Apr 02 03:34	13° <del>Υ</del> 18'00 1°26'37	minimum elong	6181 Jun 12 22:52	25° <del>Π</del> 48'02 1°53'14
max. Earth dist.	6175 Apr 02 03:57	13° <del>Υ</del> 18'07 10.90811 AU	max. Earth dist.	6181 Jun 13 00:27	25° <del>Π</del> 48'32 10.52669 AU
morning rise	6175 Apr 18 20:46	15° <del>Υ</del> 17'19	morning rise	6181 Jun 30 07:00	27° <del>Π</del> 56'08
retrograde	6175 Jul 30 09:38	22° <del>Υ</del> 32'25		6181 Jul 17 19:58	0° <del>☿</del>
opposition	6175 Oct 08 23:11	19° <del>Υ</del> 12'01 -1°57'02	retrograde	6181 Oct 13 23:13	5° <del>☿</del> 44'30
min. Earth dist.	6175 Oct 08 22:34	19° <del>Υ</del> 12'08 8.89372 AU	opposition	6181 Dec 22 13:57	2° <del>☿</del> 18'00 -2°11'17
direct	6175 Dec 17 18:37	15° <del>Υ</del> 53'03	min. Earth dist.	6181 Dec 22 12:28	2° <del>☿</del> 18'18 8.48549 AU
evening set	6176 Mar 27 06:44	23° <del>Υ</del> 01'19		6182 Jan 23 19:27	30° <del>♁</del> <del>Π</del>
			direct	6182 Feb 28 05:25	28° <del>Π</del> 55'39
conjunction	6176 Apr 12 22:50	25° <del>Υ</del> 00'40 -1°43'23		6182 Apr 04 00:05	0° <del>☿</del>
minimum elong	6176 Apr 12 22:48	25° <del>Υ</del> 00'40 1°43'25	evening set	6182 Jun 08 20:52	6° <del>☿</del> 26'52
max. Earth dist.	6176 Apr 12 23:02	25° <del>Υ</del> 00'44 10.87369 AU			
morning rise	6176 Apr 29 16:58	27° <del>Υ</del> 00'37	conjunction	6182 Jun 26 05:11	8° <del>☿</del> 36'00 -1°38'12
	6176 May 26 14:56	0° <del>♄</del>	minimum elong	6182 Jun 26 05:14	8° <del>☿</del> 36'01 1°38'14
retrograde	6176 Aug 10 20:13	4° <del>♄</del> 20'02	max. Earth dist.	6182 Jun 26 07:26	8° <del>☿</del> 36'42 10.44314 AU
opposition	6176 Oct 20 11:08	0° <del>♄</del> 58'40 -2°15'13	morning rise	6182 Jul 13 17:38	10° <del>☿</del> 46'25
min. Earth dist.	6176 Oct 20 10:28	0° <del>♄</del> 58'48 8.85193 AU	retrograde	6182 Oct 27 15:30	18° <del>☿</del> 40'18
	6176 Nov 02 15:50	30° <del>♁</del> <del>Υ</del>	opposition	6183 Jan 04 20:09	15° <del>☿</del> 13'03 -1°49'34
direct	6176 Dec 28 22:19	27° <del>Υ</del> 39'33	min. Earth dist.	6183 Jan 04 18:18	15° <del>☿</del> 13'25 8.40319 AU
	6177 Feb 20 15:34	0° <del>♄</del>	direct	6183 Mar 13 04:34	11° <del>☿</del> 49'43
evening set	6177 Apr 08 04:28	4° <del>♄</del> 49'21	evening set	6183 Jun 22 06:50	19° <del>☿</del> 27'03
conjunction	6177 Apr 24 21:25	6° <del>♄</del> 49'28 -1°55'56	conjunction	6183 Jul 09 19:42	21° <del>☿</del> 38'32 -1°17'57
minimum elong	6177 Apr 24 21:24	6° <del>♄</del> 49'28 1°55'59	minimum elong	6183 Jul 09 19:45	21° <del>☿</del> 38'32 1°17'59
max. Earth dist.	6177 Apr 24 22:39	6° <del>♄</del> 49'51 10.82443 AU	max. Earth dist.	6183 Jul 09 22:16	21° <del>☿</del> 39'20 10.36378 AU
morning rise	6177 May 11 16:54	8° <del>♄</del> 50'23	morning rise	6183 Jul 27 12:20	23° <del>☿</del> 51'13
	6177 Jul 15 02:37	15° <del>♄</del>		6183 Sep 24 17:17	0° <del>♁</del>
retrograde	6177 Aug 23 10:19	16° <del>♄</del> 14'56	retrograde	6183 Nov 10 11:44	1° <del>♁</del> 49'49
	6177 Oct 02 14:15	15° <del>♁</del> <del>♄</del>		6183 Dec 27 23:37	30° <del>♁</del> <del>☿</del>
opposition	6177 Nov 02 00:54	12° <del>♄</del> 52'30 -2°27'52	opposition	6184 Jan 18 05:50	28° <del>☿</del> 22'01 -1°21'43
min. Earth dist.	6177 Nov 01 23:21	12° <del>♄</del> 52'47 8.79617 AU	min. Earth dist.	6184 Jan 18 03:43	28° <del>☿</del> 22'27 8.32724 AU
direct	6178 Jan 10 03:50	9° <del>♄</del> 33'04	direct	6184 Mar 25 09:07	24° <del>☿</del> 57'41
	6178 Apr 05 00:56	15° <del>♄</del>		6184 Jun 12 09:17	0° <del>♁</del>
evening set	6178 Apr 20 05:55	16° <del>♄</del> 45'26	evening set	6184 Jul 05 00:46	2° <del>♁</del> 41'18
conjunction	6178 May 07 00:30	18° <del>♄</del> 46'43 -2°03'37	conjunction	6184 Jul 22 17:50	4° <del>♁</del> 54'59 -0°53'16
minimum elong	6178 May 07 00:29	18° <del>♄</del> 46'43 2°03'39	minimum elong	6184 Jul 22 17:53	4° <del>♁</del> 55'00 0°53'19
max. Earth dist.	6178 May 07 02:41	18° <del>♄</del> 47'23 10.76236 AU	max. Earth dist.	6184 Jul 22 19:53	4° <del>♁</del> 55'38 10.29292 AU
morning rise	6178 May 23 22:02	20° <del>♄</del> 48'57	morning rise	6184 Aug 09 14:15	7° <del>♁</del> 09'44
retrograde	6178 Sep 05 07:21	28° <del>♄</del> 19'12		6184 Nov 08 10:52	15° <del>♁</del>
opposition	6178 Nov 14 17:18	24° <del>♄</del> 55'40 -2°34'14	retrograde	6184 Nov 23 11:49	15° <del>♁</del> 12'02
min. Earth dist.	6178 Nov 14 15:04	24° <del>♄</del> 56'06 8.72870 AU		6184 Dec 08 12:31	15° <del>♁</del> <del>♁</del>
direct	6179 Jan 22 11:04	21° <del>♄</del> 35'45	opposition	6185 Jan 30 19:07	11° <del>♁</del> 43'56 -0°49'00
evening set	6179 May 02 12:09	28° <del>♄</del> 51'38	min. Earth dist.	6185 Jan 30 17:21	11° <del>♁</del> 44'18 8.26197 AU
	6179 May 11 22:34	0° <del>♁</del>	direct	6185 Apr 07 18:40	8° <del>♁</del> 18'38
				6185 Jul 09 19:30	15° <del>♁</del>

evening set	6185 Jul 19 02:04	16° $\Omega$ 08'21		conjunction	6191 Oct 31 06:28	10° $\mathbb{M}$ 47'33	1°57'58
				minimum elong	6191 Oct 31 06:26	10° $\mathbb{M}$ 47'33	1°58'00
conjunction	6185 Aug 05 22:41	18° $\Omega$ 23'54	-0°25'23	max. Earth dist.	6191 Oct 31 04:13	10° $\mathbb{M}$ 46'50	10.26509 AU
minimum elong	6185 Aug 05 22:43	18° $\Omega$ 23'55	0°25'25	morning rise	6191 Nov 17 21:59	13° $\mathbb{M}$ 01'20	
max. Earth dist.	6185 Aug 05 23:57	18° $\Omega$ 24'19	10.23469 AU		6191 Dec 04 05:57	15° $\mathbb{M}$	
morning rise	6185 Aug 23 22:06	20° $\Omega$ 40'20		retrograde	6192 Feb 28 04:13	20° $\mathbb{M}$ 50'38	
retrograde	6185 Dec 07 14:38	28° $\Omega$ 45'05		opposition	6192 May 05 02:01	17° $\mathbb{M}$ 26'33	2°31'25
opposition	6186 Feb 13 11:18	25° $\Omega$ 16'57	-0°13'05	min. Earth dist.	6192 May 05 04:16	17° $\mathbb{M}$ 26'06	8.29583 AU
min. Earth dist.	6186 Feb 13 10:14	25° $\Omega$ 17'10	8.21133 AU		6192 Jun 07 22:41	15° $\mathbb{R}$ $\mathbb{M}$	
direct	6186 Apr 21 09:16	21° $\Omega$ 50'43		direct	6192 Jul 12 15:50	13° $\mathbb{M}$ 58'33	
asc. node	6186 Jun 27 07:55	25° $\Omega$ 36'04			6192 Aug 16 03:51	15° $\mathbb{M}$	
evening set	6186 Aug 02 10:11	29° $\Omega$ 46'06		evening set	6192 Oct 26 17:33	22° $\mathbb{M}$ 00'14	
	6186 Aug 04 06:33	0° $\mathbb{M}$					
				conjunction	6192 Nov 13 09:04	24° $\mathbb{M}$ 13'13	2°04'27
conjunction	6186 Aug 20 09:27	2° $\mathbb{M}$ 03'03	0°04'19	minimum elong	6192 Nov 13 09:03	24° $\mathbb{M}$ 13'13	2°04'29
minimum elong	6186 Aug 20 09:26	2° $\mathbb{M}$ 03'03	0°04'18	max. Earth dist.	6192 Nov 13 05:35	24° $\mathbb{M}$ 12'07	10.32661 AU
behind sun begin	6186 Aug 20 02:15	2° $\mathbb{M}$ 00'46		morning rise	6192 Nov 30 21:03	26° $\mathbb{M}$ 25'07	
behind sun end	6186 Aug 20 16:38	2° $\mathbb{M}$ 05'19			6192 Dec 31 18:04	0° $\mathbb{A}$	
max. Earth dist.	6186 Aug 20 09:58	2° $\mathbb{M}$ 03'12	10.19257 AU	retrograde	6193 Mar 12 12:43	4° $\mathbb{A}$ 08'27	
morning rise	6186 Sep 07 10:39	4° $\mathbb{M}$ 20'36		opposition	6193 May 18 14:52	0° $\mathbb{A}$ 45'26	2°35'05
retrograde	6186 Dec 21 17:44	12° $\mathbb{M}$ 26'18		min. Earth dist.	6193 May 18 17:34	0° $\mathbb{A}$ 44'54	8.36274 AU
opposition	6187 Feb 27 05:31	8° $\mathbb{M}$ 58'24	0°23'57		6193 May 28 04:50	30° $\mathbb{R}$ $\mathbb{M}$	
min. Earth dist.	6187 Feb 27 05:06	8° $\mathbb{M}$ 58'29	8.17836 AU	direct	6193 Jul 26 15:08	27° $\mathbb{M}$ 17'55	
direct	6187 May 05 05:57	5° $\mathbb{M}$ 31'23			6193 Sep 22 06:31	0° $\mathbb{A}$	
evening set	6187 Aug 16 23:32	13° $\mathbb{M}$ 31'33		evening set	6193 Nov 09 16:19	5° $\mathbb{A}$ 15'21	
conjunction	6187 Sep 04 00:12	15° $\mathbb{M}$ 49'16	0°33'51	conjunction	6193 Nov 27 04:41	7° $\mathbb{A}$ 26'29	2°04'13
minimum elong	6187 Sep 04 00:11	15° $\mathbb{M}$ 49'16	0°33'50	minimum elong	6193 Nov 27 04:42	7° $\mathbb{A}$ 26'29	2°04'16
max. Earth dist.	6187 Sep 04 00:15	15° $\mathbb{M}$ 49'17	10.16907 AU	max. Earth dist.	6193 Nov 27 00:51	7° $\mathbb{A}$ 25'16	10.39813 AU
morning rise	6187 Sep 22 01:46	18° $\mathbb{M}$ 07'16		morning rise	6193 Dec 14 13:16	9° $\mathbb{A}$ 36'26	
retrograde	6188 Jan 04 19:47	26° $\mathbb{M}$ 12'24		retrograde	6194 Mar 25 16:41	17° $\mathbb{A}$ 13'27	
opposition	6188 Mar 12 01:10	22° $\mathbb{M}$ 44'57	0°59'50	opposition	6194 Jun 01 00:31	13° $\mathbb{A}$ 51'27	2°30'35
min. Earth dist.	6188 Mar 12 00:55	22° $\mathbb{M}$ 45'00	8.16501 AU	min. Earth dist.	6194 Jun 01 02:51	13° $\mathbb{A}$ 50'59	8.43788 AU
direct	6188 May 18 06:16	19° $\mathbb{M}$ 17'20		direct	6194 Aug 09 10:31	10° $\mathbb{A}$ 24'36	
evening set	6188 Aug 30 15:47	27° $\mathbb{M}$ 20'58		evening set	6194 Nov 23 07:13	18° $\mathbb{A}$ 16'33	
conjunction	6188 Sep 17 16:35	29° $\mathbb{M}$ 38'47	1°01'34	conjunction	6194 Dec 10 16:35	20° $\mathbb{A}$ 25'47	1°57'37
minimum elong	6188 Sep 17 16:33	29° $\mathbb{M}$ 38'47	1°01'34	minimum elong	6194 Dec 10 16:37	20° $\mathbb{A}$ 25'48	1°57'40
max. Earth dist.	6188 Sep 17 16:42	29° $\mathbb{M}$ 38'49	10.16550 AU	max. Earth dist.	6194 Dec 10 13:20	20° $\mathbb{A}$ 24'47	10.47632 AU
	6188 Sep 20 10:42	0° $\mathbb{A}$		morning rise	6194 Dec 27 21:57	22° $\mathbb{A}$ 33'49	
morning rise	6188 Oct 05 17:02	1° $\mathbb{A}$ 56'31			6195 Mar 29 11:28	0° $\mathbb{B}$	
retrograde	6189 Jan 17 20:45	9° $\mathbb{A}$ 59'35		retrograde	6195 Apr 07 14:34	0° $\mathbb{B}$ 04'32	
opposition	6189 Mar 25 21:11	6° $\mathbb{A}$ 32'44	1°32'18		6195 Apr 16 19:15	30° $\mathbb{R}$ $\mathbb{A}$	
min. Earth dist.	6189 Mar 25 20:45	6° $\mathbb{A}$ 32'49	8.17181 AU	opposition	6195 Jun 14 06:30	26° $\mathbb{A}$ 43'25	2°18'34
direct	6189 Jun 01 08:17	3° $\mathbb{A}$ 04'42		min. Earth dist.	6195 Jun 14 08:12	26° $\mathbb{A}$ 43'06	8.51774 AU
evening set	6189 Sep 14 08:54	11° $\mathbb{A}$ 10'15		direct	6195 Aug 23 02:22	23° $\mathbb{A}$ 17'23	
					6195 Nov 27 18:51	0° $\mathbb{B}$	
conjunction	6189 Oct 02 08:36	13° $\mathbb{A}$ 27'32	1°25'44	evening set	6195 Dec 06 13:50	1° $\mathbb{B}$ 03'02	
minimum elong	6189 Oct 02 08:33	13° $\mathbb{A}$ 27'31	1°25'44				
max. Earth dist.	6189 Oct 02 08:31	13° $\mathbb{A}$ 27'31	10.18177 AU	conjunction	6195 Dec 23 20:27	3° $\mathbb{B}$ 10'24	1°45'16
morning rise	6189 Oct 20 06:46	15° $\mathbb{A}$ 44'23		minimum elong	6195 Dec 23 20:30	3° $\mathbb{B}$ 10'25	1°45'20
retrograde	6190 Jan 31 20:00	23° $\mathbb{A}$ 43'52		max. Earth dist.	6195 Dec 23 18:15	3° $\mathbb{B}$ 09'43	10.55745 AU
opposition	6190 Apr 08 16:27	20° $\mathbb{A}$ 17'48	1°59'19	morning rise	6196 Jan 09 22:58	5° $\mathbb{B}$ 16'35	
min. Earth dist.	6190 Apr 08 16:28	20° $\mathbb{A}$ 17'47	8.19774 AU	retrograde	6196 Apr 19 08:34	12° $\mathbb{B}$ 41'21	
direct	6190 Jun 15 10:22	16° $\mathbb{A}$ 49'31		opposition	6196 Jun 26 08:45	9° $\mathbb{B}$ 21'00	2°00'02
evening set	6190 Sep 29 00:19	24° $\mathbb{A}$ 55'20		min. Earth dist.	6196 Jun 26 10:10	9° $\mathbb{B}$ 20'44	8.59853 AU
				direct	6196 Sep 04 12:14	5° $\mathbb{B}$ 55'50	
conjunction	6190 Oct 16 21:54	27° $\mathbb{A}$ 11'32	1°44'52	evening set	6196 Dec 18 12:18	13° $\mathbb{B}$ 34'46	
minimum elong	6190 Oct 16 21:51	27° $\mathbb{A}$ 11'31	1°44'53				
max. Earth dist.	6190 Oct 16 20:55	27° $\mathbb{A}$ 11'13	10.21598 AU	conjunction	6197 Jan 04 16:20	15° $\mathbb{B}$ 40'23	1°28'06
morning rise	6190 Nov 03 16:57	29° $\mathbb{A}$ 27'00		minimum elong	6197 Jan 04 16:22	15° $\mathbb{B}$ 40'24	1°28'08
	6190 Nov 08 03:14	0° $\mathbb{M}$		max. Earth dist.	6197 Jan 04 14:38	15° $\mathbb{B}$ 39'52	10.63757 AU
retrograde	6191 Feb 14 15:00	7° $\mathbb{M}$ 21'45		morning rise	6197 Jan 21 16:31	17° $\mathbb{B}$ 44'53	
opposition	6191 Apr 22 10:18	3° $\mathbb{M}$ 56'37	2°19'22	retrograde	6197 May 01 22:26	25° $\mathbb{B}$ 04'17	
min. Earth dist.	6191 Apr 22 11:22	3° $\mathbb{M}$ 56'24	8.24007 AU	opposition	6197 Jul 09 07:12	21° $\mathbb{B}$ 44'33	1°36'13
direct	6191 Jun 29 13:42	0° $\mathbb{M}$ 28'20		min. Earth dist.	6197 Jul 09 08:54	21° $\mathbb{B}$ 44'14	8.67639 AU
evening set	6191 Oct 13 11:46	8° $\mathbb{M}$ 32'51		direct	6197 Sep 17 15:54	18° $\mathbb{B}$ 20'18	



evening set	6197 Dec 31 03:24	25° $\text{♄}$ 52'33		retrograde	6203 Jul 14 02:51	6° $\text{♄}$ 05'48
				opposition	6203 Sep 22 13:46	2° $\text{♄}$ 46'08 -1°23'08
conjunction	6198 Jan 17 04:56	27° $\text{♄}$ 56'32 1°07'08		min. Earth dist.	6203 Sep 22 12:24	2° $\text{♄}$ 46'23 8.92069 AU
minimum elong	6198 Jan 17 04:58	27° $\text{♄}$ 56'33 1°07'09			6203 Nov 05 12:51	30° $\text{♄}$
max. Earth dist.	6198 Jan 17 03:00	27° $\text{♄}$ 55'57 10.71289 AU		direct	6203 Dec 01 19:39	29° $\text{♄}$ 26'39
morning rise	6198 Feb 03 03:13	29° $\text{♄}$ 59'33			6203 Dec 27 18:00	0° $\text{♄}$
	6198 Feb 03 04:44	0° $\text{♄}$		evening set	6204 Mar 11 19:32	6° $\text{♄}$ 34'32
retrograde	6198 May 14 05:39	7° $\text{♄}$ 14'27				
opposition	6198 Jul 22 02:02	3° $\text{♄}$ 55'10 1°08'29		conjunction	6204 Mar 28 11:47	8° $\text{♄}$ 33'24 -1°18'18
min. Earth dist.	6198 Jul 22 03:33	3° $\text{♄}$ 54'53 8.74782 AU		minimum elong	6204 Mar 28 11:45	8° $\text{♄}$ 33'23 1°18'18
direct	6198 Sep 30 15:35	0° $\text{♄}$ 31'50		max. Earth dist.	6204 Mar 28 13:38	8° $\text{♄}$ 33'57 10.91604 AU
evening set	6199 Jan 12 11:47	7° $\text{♄}$ 57'49		morning rise	6204 Apr 14 04:49	10° $\text{♄}$ 32'31
				retrograde	6204 Jul 25 09:41	17° $\text{♄}$ 45'41
conjunction	6199 Jan 29 11:06	10° $\text{♄}$ 00'20 0°43'28		opposition	6204 Oct 03 23:27	14° $\text{♄}$ 25'27 -1°47'42
minimum elong	6199 Jan 29 11:08	10° $\text{♄}$ 00'20 0°43'29		min. Earth dist.	6204 Oct 03 21:04	14° $\text{♄}$ 25'54 8.90855 AU
max. Earth dist.	6199 Jan 29 09:28	9° $\text{♄}$ 59'50 10.78016 AU		direct	6204 Dec 12 23:46	11° $\text{♄}$ 06'21
morning rise	6199 Feb 15 07:48	12° $\text{♄}$ 02'02		evening set	6205 Mar 23 13:40	18° $\text{♄}$ 13'57
	6199 Mar 13 19:29	15° $\text{♄}$				
retrograde	6199 May 26 11:52	19° $\text{♄}$ 13'36		conjunction	6205 Apr 09 05:46	20° $\text{♄}$ 13'01 -1°36'37
opposition	6199 Aug 03 17:48	15° $\text{♄}$ 54'33 0°38'10		minimum elong	6205 Apr 09 05:44	20° $\text{♄}$ 13'00 1°36'39
min. Earth dist.	6199 Aug 03 18:16	15° $\text{♄}$ 54'28 8.80984 AU		max. Earth dist.	6205 Apr 09 08:39	20° $\text{♄}$ 13'53 10.89550 AU
	6199 Aug 15 22:36	15° $\text{♄}$		morning rise	6205 Apr 25 23:13	22° $\text{♄}$ 12'32
direct	6199 Oct 13 11:09	12° $\text{♄}$ 32'09		retrograde	6205 Aug 06 19:51	29° $\text{♄}$ 29'25
	6199 Dec 08 13:07	15° $\text{♄}$		opposition	6205 Oct 16 10:18	26° $\text{♄}$ 08'31 -2°07'56
evening set	6200 Jan 24 14:27	19° $\text{♄}$ 52'28		min. Earth dist.	6205 Oct 16 07:17	26° $\text{♄}$ 09'05 8.88042 AU
				direct	6205 Dec 25 01:27	22° $\text{♄}$ 49'37
conjunction	6200 Feb 10 11:54	21° $\text{♄}$ 53'45 0°18'12		evening set	6206 Apr 04 09:45	29° $\text{♄}$ 58'03
minimum elong	6200 Feb 10 11:55	21° $\text{♄}$ 53'45 0°18'13			6206 Apr 04 16:23	0° $\text{♄}$
max. Earth dist.	6200 Feb 10 11:38	21° $\text{♄}$ 53'40 10.83656 AU				
morning rise	6200 Feb 27 07:10	23° $\text{♄}$ 54'23		conjunction	6206 Apr 21 02:10	1° $\text{♄}$ 57'38 -1°51'01
	6200 May 02 22:58	0° $\text{♄}$		minimum elong	6206 Apr 21 02:08	1° $\text{♄}$ 57'37 1°51'03
retrograde	6200 Jun 07 16:54	1° $\text{♄}$ 03'48		max. Earth dist.	6206 Apr 21 05:04	1° $\text{♄}$ 58'30 10.85954 AU
	6200 Jul 14 05:56	30° $\text{♄}$		morning rise	6206 May 07 20:48	3° $\text{♄}$ 57'54
opposition	6200 Aug 16 06:54	27° $\text{♄}$ 44'49 0°06'37		retrograde	6206 Aug 19 08:13	11° $\text{♄}$ 19'22
min. Earth dist.	6200 Aug 16 06:13	27° $\text{♄}$ 44'57 8.85984 AU		opposition	6206 Oct 28 22:56	7° $\text{♄}$ 57'41 -2°22'57
direct	6200 Oct 26 00:04	24° $\text{♄}$ 23'19		min. Earth dist.	6206 Oct 28 20:09	7° $\text{♄}$ 58'12 8.83752 AU
desc. node	6200 Nov 02 21:50	24° $\text{♄}$ 26'24		direct	6207 Jan 06 04:58	4° $\text{♄}$ 38'46
	6201 Jan 22 03:15	0° $\text{♄}$		evening set	6207 Apr 16 09:05	11° $\text{♄}$ 49'08
evening set	6201 Feb 05 12:58	1° $\text{♄}$ 38'53				
				conjunction	6207 May 03 02:36	13° $\text{♄}$ 49'37 -2°00'48
conjunction	6201 Feb 22 08:44	3° $\text{♄}$ 39'09 -0°07'40		minimum elong	6207 May 03 02:35	13° $\text{♄}$ 49'36 2°00'50
minimum elong	6201 Feb 22 08:43	3° $\text{♄}$ 39'09 0°07'40		max. Earth dist.	6207 May 03 05:07	13° $\text{♄}$ 50'22 10.80972 AU
behind sun begin	6201 Feb 22 02:21	3° $\text{♄}$ 37'16			6207 May 12 20:06	15° $\text{♄}$
behind sun end	6201 Feb 22 15:05	3° $\text{♄}$ 41'02		morning rise	6207 May 19 23:09	15° $\text{♄}$ 50'59
max. Earth dist.	6201 Feb 22 09:28	3° $\text{♄}$ 39'22 10.87971 AU		retrograde	6207 Sep 01 01:13	23° $\text{♄}$ 17'41
morning rise	6201 Mar 11 02:49	5° $\text{♄}$ 38'59		opposition	6207 Nov 10 13:35	19° $\text{♄}$ 55'09 -2°32'01
retrograde	6201 Jun 19 20:00	12° $\text{♄}$ 47'28		min. Earth dist.	6207 Nov 10 11:10	19° $\text{♄}$ 55'36 8.78158 AU
opposition	6201 Aug 28 18:00	9° $\text{♄}$ 28'26 -0°24'54		direct	6208 Jan 18 10:54	16° $\text{♄}$ 35'59
min. Earth dist.	6201 Aug 28 17:03	9° $\text{♄}$ 28'36 8.89580 AU		evening set	6208 Apr 27 12:34	23° $\text{♄}$ 49'15
direct	6201 Nov 07 08:48	6° $\text{♄}$ 07'44				
evening set	6202 Feb 17 08:34	13° $\text{♄}$ 19'37		conjunction	6208 May 14 08:08	25° $\text{♄}$ 51'01 -2°05'26
				minimum elong	6208 May 14 08:08	25° $\text{♄}$ 51'01 2°05'28
conjunction	6202 Mar 06 02:43	15° $\text{♄}$ 19'07 -0°32'57		max. Earth dist.	6208 May 14 11:06	25° $\text{♄}$ 51'55 10.74794 AU
minimum elong	6202 Mar 06 02:42	15° $\text{♄}$ 19'07 0°32'56		morning rise	6208 May 31 07:12	27° $\text{♄}$ 53'51
max. Earth dist.	6202 Mar 06 03:28	15° $\text{♄}$ 19'21 10.90796 AU			6208 Jun 18 13:40	0° $\text{♄}$
morning rise	6202 Mar 22 20:06	17° $\text{♄}$ 18'25		retrograde	6208 Sep 12 22:15	5° $\text{♄}$ 26'13
retrograde	6202 Jul 01 23:29	24° $\text{♄}$ 27'15		opposition	6208 Nov 22 06:56	2° $\text{♄}$ 02'45 -2°34'30
opposition	6202 Sep 10 04:09	21° $\text{♄}$ 08'00 -0°55'12		min. Earth dist.	6208 Nov 22 04:17	2° $\text{♄}$ 03'16 8.71463 AU
min. Earth dist.	6202 Sep 10 03:17	21° $\text{♄}$ 08'10 8.91635 AU			6208 Dec 21 03:05	30° $\text{♄}$
direct	6202 Nov 19 15:09	17° $\text{♄}$ 47'59		direct	6209 Jan 29 19:00	28° $\text{♄}$ 43'09
evening set	6203 Mar 01 02:15	24° $\text{♄}$ 57'17			6209 Mar 09 11:53	0° $\text{♄}$
				evening set	6209 May 09 21:11	6° $\text{♄}$ 00'12
conjunction	6203 Mar 17 19:08	26° $\text{♄}$ 56'18 -0°56'48				
minimum elong	6203 Mar 17 19:06	26° $\text{♄}$ 56'18 0°56'47		conjunction	6209 May 26 19:37	8° $\text{♄}$ 03'37 -2°04'30
max. Earth dist.	6203 Mar 17 19:52	26° $\text{♄}$ 56'31 10.92024 AU		minimum elong	6209 May 26 19:38	8° $\text{♄}$ 03'37 2°04'32
morning rise	6203 Apr 03 12:13	28° $\text{♄}$ 55'22		max. Earth dist.	6209 May 26 23:17	8° $\text{♄}$ 04'44 10.67640 AU
	6203 Apr 12 20:36	0° $\text{♄}$		morning rise	6209 Jun 12 21:44	10° $\text{♄}$ 08'12

retrograde	6209 Sep 26 00:42	17° $\Pi$ 46'28			6215 Sep 16 02:35	0° $\Pi$	
opposition	6209 Dec 05 03:21	14° $\Pi$ 22'03 -2°30'01	asc. node		6215 Dec 13 00:19	6° $\Pi$ 21'10	
min. Earth dist.	6209 Dec 05 00:18	14° $\Pi$ 22'38 8.63905 AU	retrograde		6215 Dec 16 13:23	6° $\Pi$ 21'51	
direct	6210 Feb 11 07:11	11° $\Pi$ 01'48	opposition		6216 Feb 22 05:50	2° $\Pi$ 53'57 0°06'57	
evening set	6210 May 22 12:01	18° $\Pi$ 23'26	min. Earth dist.		6216 Feb 22 05:30	2° $\Pi$ 54'01 8.20737 AU	
					6216 Apr 04 18:55	30° $\mathbb{R}$ $\Omega$	
conjunction	6210 Jun 08 13:58	20° $\Pi$ 28'48 -1°57'48	direct		6216 Apr 29 06:04	29° $\Omega$ 27'23	
minimum elong	6210 Jun 08 13:59	20° $\Pi$ 28'49 1°57'50			6216 May 23 15:24	0° $\Pi$	
max. Earth dist.	6210 Jun 08 17:09	20° $\Pi$ 29'47 10.59769 AU	evening set		6216 Aug 10 14:15	7° $\Pi$ 24'12	
morning rise	6210 Jun 25 19:53	22° $\Pi$ 35'26					
	6210 Sep 19 17:01	0° $\mathfrak{E}$	conjunction		6216 Aug 28 14:21	9° $\Pi$ 41'21 0°20'20	
retrograde	6210 Oct 09 09:20	0° $\mathfrak{E}$ 19'33	minimum elong		6216 Aug 28 14:20	9° $\Pi$ 41'21 0°20'19	
	6210 Oct 29 02:05	30° $\mathbb{R}$ $\Pi$	max. Earth dist.		6216 Aug 28 14:01	9° $\Pi$ 41'15 10.19047 AU	
opposition	6210 Dec 18 03:08	26° $\Pi$ 54'14 -2°18'22	morning rise		6216 Sep 15 15:36	11° $\Pi$ 58'55	
min. Earth dist.	6210 Dec 18 00:37	26° $\Pi$ 54'43 8.55752 AU	retrograde		6216 Dec 29 15:10	20° $\Pi$ 03'28	
direct	6211 Feb 23 21:43	23° $\Pi$ 33'08	opposition		6217 Mar 06 23:52	16° $\Pi$ 35'42 0°43'29	
	6211 May 27 01:11	0° $\mathfrak{E}$	min. Earth dist.		6217 Mar 07 00:08	16° $\Pi$ 35'39 8.17839 AU	
evening set	6211 Jun 04 09:44	1° $\mathfrak{E}$ 00'05	direct		6217 May 13 02:55	13° $\Pi$ 08'13	
			evening set		6217 Aug 25 04:02	21° $\Pi$ 09'21	
conjunction	6211 Jun 21 15:44	3° $\mathfrak{E}$ 07'40 -1°45'20					
minimum elong	6211 Jun 21 15:46	3° $\mathfrak{E}$ 07'41 1°45'22	conjunction		6217 Sep 12 04:50	23° $\Pi$ 27'01 0°49'01	
max. Earth dist.	6211 Jun 21 17:30	3° $\mathfrak{E}$ 08'13 10.51468 AU	minimum elong		6217 Sep 12 04:48	23° $\Pi$ 27'00 0°49'01	
morning rise	6211 Jul 09 01:59	5° $\mathfrak{E}$ 16'34	max. Earth dist.		6217 Sep 12 03:24	23° $\Pi$ 26'34 10.17103 AU	
retrograde	6211 Oct 22 22:36	13° $\mathfrak{E}$ 06'19	morning rise		6217 Sep 30 05:50	25° $\Pi$ 44'46	
opposition	6211 Dec 31 06:35	9° $\mathfrak{E}$ 40'12 -1°59'44			6217 Nov 06 00:37	0° $\underline{\mathfrak{A}}$	
min. Earth dist.	6211 Dec 31 05:10	9° $\mathfrak{E}$ 40'29 8.47341 AU	retrograde		6218 Jan 12 16:22	3° $\underline{\mathfrak{A}}$ 48'13	
direct	6212 Mar 07 16:57	6° $\mathfrak{E}$ 18'05	opposition		6218 Mar 20 18:51	0° $\underline{\mathfrak{A}}$ 20'48 1°17'42	
evening set	6212 Jun 16 14:57	13° $\mathfrak{E}$ 51'02	min. Earth dist.		6218 Mar 20 20:06	0° $\underline{\mathfrak{A}}$ 20'33 8.16920 AU	
					6218 Mar 25 00:39	30° $\mathbb{R}$ $\Pi$	
conjunction	6212 Jul 04 01:21	16° $\mathfrak{E}$ 00'57 -1°27'26	direct		6218 May 27 02:50	26° $\Pi$ 52'35	
minimum elong	6212 Jul 04 01:24	16° $\mathfrak{E}$ 00'58 1°27'28			6218 Jul 26 23:54	0° $\underline{\mathfrak{A}}$	
max. Earth dist.	6212 Jul 04 02:01	16° $\mathfrak{E}$ 01'09 10.43142 AU	evening set		6218 Sep 08 20:05	4° $\underline{\mathfrak{A}}$ 56'45	
morning rise	6212 Jul 21 15:58	18° $\mathfrak{E}$ 12'09					
retrograde	6212 Nov 04 14:04	26° $\mathfrak{E}$ 07'02	conjunction		6218 Sep 26 20:19	7° $\underline{\mathfrak{A}}$ 14'16 1°14'58	
opposition	6213 Jan 12 13:38	22° $\mathfrak{E}$ 40'14 -1°34'39	minimum elong		6218 Sep 26 20:16	7° $\underline{\mathfrak{A}}$ 14'15 1°14'58	
min. Earth dist.	6213 Jan 12 13:04	22° $\mathfrak{E}$ 40'20 8.39159 AU	max. Earth dist.		6218 Sep 26 17:49	7° $\underline{\mathfrak{A}}$ 13'28 10.17158 AU	
direct	6213 Mar 20 19:38	19° $\mathfrak{E}$ 17'00	morning rise		6218 Oct 14 19:45	9° $\underline{\mathfrak{A}}$ 31'32	
evening set	6213 Jun 30 03:56	26° $\mathfrak{E}$ 56'13	retrograde		6219 Jan 26 15:25	17° $\underline{\mathfrak{A}}$ 32'23	
			opposition		6219 Apr 03 13:47	14° $\underline{\mathfrak{A}}$ 05'34 1°47'26	
conjunction	6213 Jul 17 18:49	29° $\mathfrak{E}$ 08'28 -1°04'45	min. Earth dist.		6219 Apr 03 15:32	14° $\underline{\mathfrak{A}}$ 05'12 8.18012 AU	
minimum elong	6213 Jul 17 18:51	29° $\mathfrak{E}$ 08'28 1°04'47	direct		6219 Jun 10 04:58	10° $\underline{\mathfrak{A}}$ 36'53	
max. Earth dist.	6213 Jul 17 19:16	29° $\mathfrak{E}$ 08'36 10.35303 AU	evening set		6219 Sep 23 11:50	18° $\underline{\mathfrak{A}}$ 42'29	
	6213 Jul 24 14:36	0° $\Omega$					
morning rise	6213 Aug 04 13:27	1° $\Omega$ 21'52	conjunction		6219 Oct 11 10:24	20° $\underline{\mathfrak{A}}$ 59'15 1°36'34	
retrograde	6213 Nov 18 10:36	9° $\Omega$ 21'03	minimum elong		6219 Oct 11 10:21	20° $\underline{\mathfrak{A}}$ 59'14 1°36'34	
opposition	6214 Jan 26 00:11	5° $\Omega$ 53'40 -1°04'08	max. Earth dist.		6219 Oct 11 07:34	20° $\underline{\mathfrak{A}}$ 58'20 10.19197 AU	
min. Earth dist.	6214 Jan 25 23:49	5° $\Omega$ 53'44 8.31720 AU	morning rise		6219 Oct 29 07:12	23° $\underline{\mathfrak{A}}$ 15'27	
direct	6214 Apr 03 02:34	2° $\Omega$ 29'18			6220 Jan 03 20:23	0° $\mathbb{M}$	
evening set	6214 Jul 14 00:35	10° $\Omega$ 14'45	retrograde		6220 Feb 09 10:49	1° $\mathbb{M}$ 12'26	
					6220 Mar 17 11:20	30° $\mathbb{R}$ $\underline{\mathfrak{A}}$	
conjunction	6214 Jul 31 19:34	12° $\Omega$ 29'05 -0°38'17	opposition		6220 Apr 16 07:57	27° $\underline{\mathfrak{A}}$ 46'22 2°10'53	
minimum elong	6214 Jul 31 19:35	12° $\Omega$ 29'06 0°38'18	min. Earth dist.		6220 Apr 16 09:36	27° $\underline{\mathfrak{A}}$ 46'02 8.21037 AU	
max. Earth dist.	6214 Jul 31 20:14	12° $\Omega$ 29'18 10.28422 AU	direct		6220 Jun 23 08:45	24° $\underline{\mathfrak{A}}$ 17'32	
morning rise	6214 Aug 18 17:32	14° $\Omega$ 44'24			6220 Sep 17 06:49	0° $\mathbb{M}$	
	6214 Aug 20 20:00	15° $\Omega$	evening set		6220 Oct 07 00:41	2° $\mathbb{M}$ 22'47	
retrograde	6214 Dec 02 11:03	22° $\Omega$ 46'45					
opposition	6215 Feb 08 13:47	19° $\Omega$ 18'59 -0°29'39	conjunction		6220 Oct 24 20:51	4° $\mathbb{M}$ 38'17 1°52'35	
min. Earth dist.	6215 Feb 08 13:14	19° $\Omega$ 19'06 8.25458 AU	minimum elong		6220 Oct 24 20:49	4° $\mathbb{M}$ 38'16 1°52'36	
direct	6215 Apr 16 13:39	15° $\Omega$ 53'29	max. Earth dist.		6220 Oct 24 18:14	4° $\mathbb{M}$ 37'27 10.23094 AU	
evening set	6215 Jul 28 04:29	23° $\Omega$ 44'55	morning rise		6220 Nov 11 14:18	6° $\mathbb{M}$ 52'58	
			retrograde		6221 Feb 22 02:01	14° $\mathbb{M}$ 45'02	
conjunction	6215 Aug 15 02:38	26° $\Omega$ 00'57 -0°09'25	opposition		6221 Apr 30 00:23	11° $\mathbb{M}$ 19'53 2°26'47	
minimum elong	6215 Aug 15 02:38	26° $\Omega$ 00'57 0°09'26	min. Earth dist.		6221 Apr 30 01:41	11° $\mathbb{M}$ 19'37 8.25803 AU	
behind sun begin	6215 Aug 14 20:35	25° $\Omega$ 59'02	direct		6221 Jul 07 10:53	7° $\mathbb{M}$ 51'10	
behind sun end	6215 Aug 15 08:41	26° $\Omega$ 02'51			6221 Oct 14 00:06	15° $\mathbb{M}$	
max. Earth dist.	6215 Aug 15 02:59	26° $\Omega$ 01'03 10.22895 AU	evening set		6221 Oct 21 09:02	15° $\mathbb{M}$ 54'20	
morning rise	6215 Sep 02 02:51	28° $\Omega$ 17'41					

conjunction	6221 Nov 08 02:17	18°  08'14	2°02'14	max. Earth dist.	6228 Jan 25 01:00	4°  32'01	10.75499 AU
minimum elong	6221 Nov 08 02:16	18°  08'14	2°02'15	morning rise	6228 Feb 10 22:22	6°  34'19	
max. Earth dist.	6221 Nov 08 00:06	18°  07'33	10.28617 AU	retrograde	6228 May 21 03:39	13°  47'25	
morning rise	6221 Nov 25 16:03	20°  21'07		opposition	6228 Jul 29 02:51	10°  28'40	0°52'45
retrograde	6222 Mar 07 13:45	28°  07'24		min. Earth dist.	6228 Jul 29 03:00	10°  28'39	8.78866 AU
opposition	6222 May 13 14:15	24°  43'17	2°34'26	direct	6228 Oct 07 17:10	7°  06'17	
min. Earth dist.	6222 May 13 15:34	24°  43'01	8.32031 AU	evening set	6229 Jan 19 06:18	14°  29'18	
direct	6222 Jul 21 10:05	21°  14'59			6229 Jan 23 13:42	15° 	
evening set	6222 Nov 04 11:03	29°  14'30					
	6222 Nov 10 13:34	0° 		conjunction	6229 Feb 05 04:39	16°  31'08	0°30'18
				minimum elong	6229 Feb 05 04:40	16°  31'08	0°30'19
conjunction	6222 Nov 22 01:09	1°  26'36	2°05'10	max. Earth dist.	6229 Feb 05 04:23	16°  31'03	10.81946 AU
minimum elong	6222 Nov 22 01:09	1°  26'36	2°05'12	morning rise	6229 Feb 22 00:33	18°  32'14	
max. Earth dist.	6222 Nov 21 23:08	1°  25'58	10.35451 AU	retrograde	6229 Jun 02 08:16	25°  42'31	
morning rise	6222 Dec 09 11:16	3°  37'32		opposition	6229 Aug 10 17:31	22°  24'04	0°21'38
retrograde	6223 Mar 20 20:34	11°  17'32		min. Earth dist.	6229 Aug 10 17:52	22°  24'00	8.84691 AU
opposition	6223 May 27 01:17	7°  54'33	2°33'45	direct	6229 Oct 20 08:39	19°  02'40	
min. Earth dist.	6223 May 27 03:02	7°  54'12	8.39376 AU	evening set	6230 Jan 31 07:10	26°  20'28	
direct	6223 Aug 04 06:15	4°  26'56					
evening set	6223 Nov 18 05:26	12°  21'28		conjunction	6230 Feb 17 03:34	28°  21'08	0°04'40
				minimum elong	6230 Feb 17 03:33	28°  21'08	0°04'41
conjunction	6223 Dec 05 16:19	14°  31'39	2°01'31	behind sun begin	6230 Feb 16 20:41	28°  19'06	
minimum elong	6223 Dec 05 16:20	14°  31'39	2°01'34	behind sun end	6230 Feb 17 10:25	28°  23'10	
max. Earth dist.	6223 Dec 05 14:01	14°  30'56	10.43224 AU	max. Earth dist.	6230 Feb 17 03:02	28°  21'00	10.87087 AU
morning rise	6223 Dec 22 23:09	16°  40'38			6230 Mar 02 22:08	0° 	
retrograde	6224 Apr 01 20:29	24°  14'16		morning rise	6230 Mar 05 22:16	0°  21'17	
opposition	6224 Jun 08 08:52	20°  52'23	2°25'10	desc. node	6230 Apr 25 06:29	5°  27'35	
min. Earth dist.	6224 Jun 08 10:51	20°  52'00	8.47447 AU	retrograde	6230 Jun 14 11:08	7°  30'03	
direct	6224 Aug 16 23:55	17°  25'38		opposition	6230 Aug 23 05:53	4°  11'38	-0°10'03
evening set	6224 Nov 30 15:51	25°  14'16		min. Earth dist.	6230 Aug 23 05:40	4°  11'40	8.89079 AU
				direct	6230 Nov 01 21:37	0°  51'05	
conjunction	6224 Dec 17 23:43	27°  22'32	1°51'48	evening set	6231 Feb 12 04:18	8°  04'40	
minimum elong	6224 Dec 17 23:45	27°  22'33	1°51'51				
max. Earth dist.	6224 Dec 17 21:12	27°  21'45	10.51530 AU	conjunction	6231 Feb 28 23:08	10°  04'27	-0°21'05
morning rise	6225 Jan 04 03:43	29°  29'37		minimum elong	6231 Feb 28 23:07	10°  04'26	0°21'04
	6225 Jan 08 08:13	0° 		max. Earth dist.	6231 Feb 28 23:21	10°  04'30	10.90652 AU
retrograde	6225 Apr 14 15:51	6°  57'05		morning rise	6231 Mar 17 16:51	12°  03'54	
opposition	6225 Jun 21 12:35	3°  36'14	2°09'34	retrograde	6231 Jun 26 16:15	19°  12'28	
min. Earth dist.	6225 Jun 21 14:18	3°  35'54	8.55830 AU	opposition	6231 Sep 04 16:41	15°  53'52	-0°41'04
direct	6225 Aug 30 12:33	0°  10'31		min. Earth dist.	6231 Sep 04 15:47	15°  54'02	8.91788 AU
evening set	6225 Dec 13 18:13	7°  52'40		direct	6231 Nov 14 05:58	12°  34'03	
				evening set	6232 Feb 23 23:04	19°  44'31	
conjunction	6225 Dec 30 23:24	9°  59'07	1°36'47				
minimum elong	6225 Dec 30 23:26	9°  59'08	1°36'50	conjunction	6232 Mar 11 16:38	21°  43'44	-0°45'44
max. Earth dist.	6225 Dec 30 21:13	9°  58'27	10.59943 AU	minimum elong	6232 Mar 11 16:37	21°  43'44	0°45'43
morning rise	6226 Jan 17 00:52	12°  04'25		max. Earth dist.	6232 Mar 11 17:30	21°  44'00	10.92442 AU
retrograde	6226 Apr 27 07:23	19°  26'15		morning rise	6232 Mar 28 09:41	23°  42'50	
opposition	6226 Jul 04 12:44	16°  06'17	1°48'05		6232 Jun 05 02:49	0° 	
min. Earth dist.	6226 Jul 04 13:27	16°  06'09	8.64106 AU	retrograde	6232 Jul 07 20:11	0°  52'31	
direct	6226 Sep 12 19:26	12°  34'42			6232 Aug 10 04:25	30°  R 	
evening set	6226 Dec 26 12:48	20°  31'10		opposition	6232 Sep 16 02:45	27°  43'31	-1°10'15
				min. Earth dist.	6232 Sep 16 01:40	27°  43'43	8.92690 AU
conjunction	6227 Jan 12 15:35	22°  32'15	1°17'29	direct	6232 Nov 25 10:31	24°  41'14	
minimum elong	6227 Jan 12 15:37	22°  32'15	1°17'31		6233 Feb 22 15:33	0° 	
max. Earth dist.	6227 Jan 12 14:46	22°  32'13	10.68054 AU	evening set	6233 Mar 06 16:58	1°  22'53	
morning rise	6227 Jan 29 14:46	24°  32'53					
	6227 Mar 25 18:11	0° 		conjunction	6233 Mar 23 09:29	3°  21'48	-1°08'28
retrograde	6227 May 09 18:40	1°  42'35		minimum elong	6233 Mar 23 09:27	3°  21'48	1°08'28
	6227 Jun 25 07:28	30°  R 		max. Earth dist.	6233 Mar 23 09:56	3°  21'56	10.92418 AU
opposition	6227 Jul 17 09:26	28°  32'19	1°22'02	morning rise	6233 Apr 09 02:22	5°  20'52	
min. Earth dist.	6227 Jul 17 09:33	28°  32'18	8.71897 AU	retrograde	6233 Jul 20 01:58	12°  23'51	
direct	6227 Sep 25 21:06	24°  35'52		opposition	6233 Sep 28 12:50	9°  13'17	-1°36'33
	6227 Dec 17 05:52	0° 		min. Earth dist.	6233 Sep 28 12:14	9°  13'23	8.91814 AU
evening set	6228 Jan 08 00:32	2°  28'51		direct	6233 Dec 07 14:52	5°  21'18	
				evening set	6234 Mar 18 11:06	13°  21'15	
conjunction	6228 Jan 25 01:03	4°  32'02	0°54'57				
minimum elong	6228 Jan 25 01:05	4°  32'03	0°54'58	conjunction	6234 Apr 04 03:04	15°  21'13	-1°28'24

minimum elong	6234 Apr 04 03:02	15° $\Upsilon$ 01'12	1°28'25	conjunction	6240 Jun 14 23:16	27° $\Pi$ 31'37	-1°51'50
max. Earth dist.	6234 Apr 04 03:14	15° $\Upsilon$ 01'16	10.90664 AU	minimum elong	6240 Jun 14 23:18	27° $\Pi$ 31'37	1°51'52
morning rise	6234 Apr 20 20:21	17° $\Upsilon$ 00'34		max. Earth dist.	6240 Jun 15 01:45	27° $\Pi$ 32'23	10.52956 AU
retrograde	6234 Aug 01 09:37	24° $\Upsilon$ 15'55		morning rise	6240 Jul 02 07:35	29° $\Pi$ 39'43	
opposition	6234 Oct 10 23:41	20° $\Upsilon$ 55'32	-1°58'58		6240 Jul 05 02:46	0° $\Theta$	
min. Earth dist.	6234 Oct 10 22:56	20° $\Upsilon$ 55'40	8.89259 AU	retrograde	6240 Oct 15 23:38	7° $\Theta$ 27'46	
direct	6234 Dec 19 18:08	17° $\Upsilon$ 36'37		opposition	6240 Dec 24 13:50	4° $\Theta$ 01'16	-2°09'17
evening set	6235 Mar 30 06:23	24° $\Upsilon$ 44'57		min. Earth dist.	6240 Dec 24 11:47	4° $\Theta$ 01'40	8.48866 AU
				direct	6241 Mar 02 05:15	0° $\Theta$ 38'55	
conjunction	6235 Apr 15 22:34	26° $\Upsilon$ 44'20	-1°44'45	evening set	6241 Jun 10 20:54	8° $\Theta$ 09'52	
minimum elong	6235 Apr 15 22:32	26° $\Upsilon$ 44'19	1°44'46				
max. Earth dist.	6235 Apr 15 23:38	26° $\Upsilon$ 44'39	10.87284 AU	conjunction	6241 Jun 28 05:28	10° $\Theta$ 18'59	-1°36'22
morning rise	6235 May 02 16:41	28° $\Upsilon$ 44'18		minimum elong	6241 Jun 28 05:31	10° $\Theta$ 19'00	1°36'24
	6235 May 13 14:52	0° $\mathcal{B}$		max. Earth dist.	6241 Jun 28 08:10	10° $\Theta$ 19'50	10.44659 AU
retrograde	6235 Aug 13 20:07	6° $\mathcal{B}$ 03'58		morning rise	6241 Jul 15 18:01	12° $\Theta$ 29'22	
opposition	6235 Oct 23 11:41	2° $\mathcal{B}$ 42'35	-2°16'35	retrograde	6241 Oct 29 15:09	20° $\Theta$ 22'52	
min. Earth dist.	6235 Oct 23 10:08	2° $\mathcal{B}$ 42'52	8.85143 AU	opposition	6242 Jan 06 19:42	16° $\Theta$ 55'36	-1°47'02
	6235 Dec 04 17:05	30° $\mathcal{K}\Upsilon$		min. Earth dist.	6242 Jan 06 17:27	16° $\Theta$ 56'03	8.40687 AU
direct	6235 Dec 31 23:11	29° $\Upsilon$ 23'32		direct	6242 Mar 15 04:26	13° $\Theta$ 32'16	
	6236 Jan 27 18:06	0° $\mathcal{B}$		evening set	6242 Jun 24 06:42	21° $\Theta$ 09'18	
evening set	6236 Apr 10 04:21	6° $\mathcal{B}$ 33'21					
				conjunction	6242 Jul 11 19:41	23° $\Theta$ 20'45	-1°15'44
conjunction	6236 Apr 26 21:28	8° $\mathcal{B}$ 33'30	-1°56'47	minimum elong	6242 Jul 11 19:44	23° $\Theta$ 20'46	1°15'47
minimum elong	6236 Apr 26 21:26	8° $\mathcal{B}$ 33'30	1°56'49	max. Earth dist.	6242 Jul 11 21:49	23° $\Theta$ 21'25	10.36769 AU
max. Earth dist.	6236 Apr 26 23:38	8° $\mathcal{B}$ 34'09	10.82422 AU	morning rise	6242 Jul 29 12:30	25° $\Theta$ 33'24	
morning rise	6236 May 13 16:57	10° $\mathcal{B}$ 34'26			6242 Sep 07 01:37	0° $\mathcal{Q}$	
	6236 Jun 24 08:11	15° $\mathcal{B}$		retrograde	6242 Nov 12 11:42	3° $\mathcal{Q}$ 31'32	
retrograde	6236 Aug 25 12:19	17° $\mathcal{B}$ 59'06		opposition	6243 Jan 20 05:05	0° $\mathcal{Q}$ 03'45	-1°18'48
	6236 Oct 29 21:54	15° $\mathcal{R}\mathcal{B}$		min. Earth dist.	6243 Jan 20 03:18	0° $\mathcal{Q}$ 04'06	8.33128 AU
opposition	6236 Nov 04 01:26	14° $\mathcal{B}$ 36'40	-2°28'34		6243 Jan 20 23:47	30° $\mathcal{R}\mathcal{B}$	
min. Earth dist.	6236 Nov 03 23:10	14° $\mathcal{B}$ 37'06	8.79631 AU	direct	6243 Mar 28 07:53	26° $\Theta$ 39'22	
direct	6237 Jan 12 04:09	11° $\mathcal{B}$ 17'17			6243 May 30 06:28	0° $\mathcal{Q}$	
	6237 Mar 21 14:33	15° $\mathcal{B}$		evening set	6243 Jul 08 00:24	4° $\mathcal{Q}$ 22'41	
evening set	6237 Apr 22 06:03	18° $\mathcal{B}$ 29'37					
				conjunction	6243 Jul 25 17:32	6° $\mathcal{Q}$ 36'19	-0°50'49
conjunction	6237 May 09 00:40	20° $\mathcal{B}$ 30'55	-2°03'55	minimum elong	6243 Jul 25 17:34	6° $\mathcal{Q}$ 36'19	0°50'52
minimum elong	6237 May 09 00:39	20° $\mathcal{B}$ 30'55	2°03'57	max. Earth dist.	6243 Jul 25 18:33	6° $\mathcal{Q}$ 36'38	10.29709 AU
max. Earth dist.	6237 May 09 02:47	20° $\mathcal{B}$ 31'34	10.76284 AU	morning rise	6243 Aug 12 14:11	8° $\mathcal{Q}$ 51'02	
morning rise	6237 May 25 22:22	22° $\mathcal{B}$ 33'11			6243 Oct 10 06:49	15° $\mathcal{Q}$	
	6237 Aug 30 00:30	0° $\Pi$		retrograde	6243 Nov 26 11:13	16° $\mathcal{Q}$ 52'48	
retrograde	6237 Sep 07 08:21	0° $\Pi$ 03'26			6244 Jan 13 06:50	15° $\mathcal{R}\mathcal{Q}$	
	6237 Sep 15 15:23	30° $\mathcal{R}\mathcal{B}$		opposition	6244 Feb 02 17:55	13° $\mathcal{Q}$ 24'44	-0°45'51
opposition	6237 Nov 16 17:52	26° $\mathcal{B}$ 39'55	-2°34'14	min. Earth dist.	6244 Feb 02 17:01	13° $\mathcal{Q}$ 24'55	8.26611 AU
min. Earth dist.	6237 Nov 16 15:44	26° $\mathcal{B}$ 40'20	8.72953 AU	direct	6244 Apr 09 17:29	9° $\mathcal{Q}$ 59'21	
direct	6238 Jan 24 09:43	23° $\mathcal{B}$ 20'01			6244 Jun 27 10:20	15° $\mathcal{Q}$	
	6238 Apr 29 11:27	0° $\Pi$		evening set	6244 Jul 21 01:28	17° $\mathcal{Q}$ 48'50	
evening set	6238 May 04 12:19	0° $\Pi$ 35'50					
				conjunction	6244 Aug 07 22:09	20° $\mathcal{Q}$ 04'18	-0°22'49
conjunction	6238 May 21 09:16	2° $\Pi$ 38'38	-2°05'39	minimum elong	6244 Aug 07 22:10	20° $\mathcal{Q}$ 04'19	0°22'51
minimum elong	6238 May 21 09:16	2° $\Pi$ 38'38	2°05'40	max. Earth dist.	6244 Aug 07 22:39	20° $\mathcal{Q}$ 04'28	10.23877 AU
max. Earth dist.	6238 May 21 10:59	2° $\Pi$ 39'09	10.69126 AU	morning rise	6244 Aug 25 21:40	22° $\mathcal{Q}$ 20'41	
morning rise	6238 Jun 07 10:01	4° $\Pi$ 42'35			6244 Nov 17 22:26	0° $\mathcal{M}$	
retrograde	6238 Sep 20 07:32	12° $\Pi$ 18'46		retrograde	6244 Dec 09 12:16	0° $\mathcal{M}$ 24'54	
opposition	6238 Nov 29 13:15	8° $\Pi$ 54'11	-2°33'04		6244 Dec 31 02:42	30° $\mathcal{R}\mathcal{Q}$	
min. Earth dist.	6238 Nov 29 11:34	8° $\Pi$ 54'31	8.65383 AU	opposition	6245 Feb 15 09:37	26° $\mathcal{Q}$ 56'48	-0°09'54
direct	6239 Feb 05 20:53	5° $\Pi$ 33'34		min. Earth dist.	6245 Feb 15 09:06	26° $\mathcal{Q}$ 56'54	8.21525 AU
evening set	6239 May 17 00:24	12° $\Pi$ 53'45		direct	6245 Apr 23 09:25	23° $\mathcal{Q}$ 30'32	
				asc. node	6245 May 27 21:28	24° $\mathcal{Q}$ 35'05	
conjunction	6239 Jun 03 00:37	14° $\Pi$ 58'26	-2°01'39		6245 Jul 23 18:08	0° $\mathcal{M}$	
minimum elong	6239 Jun 03 00:38	14° $\Pi$ 58'26	2°01'40	evening set	6245 Aug 04 09:11	1° $\mathcal{M}$ 25'40	
max. Earth dist.	6239 Jun 03 02:24	14° $\Pi$ 58'59	10.61240 AU				
morning rise	6239 Jun 20 04:58	17° $\Pi$ 04'21		conjunction	6245 Aug 22 08:32	3° $\mathcal{M}$ 42'33	0°06'51
retrograde	6239 Oct 03 12:50	24° $\Pi$ 46'33		minimum elong	6245 Aug 22 08:31	3° $\mathcal{M}$ 42'33	0°06'49
opposition	6239 Dec 12 11:43	21° $\Pi$ 20'57	-2°24'45	behind sun begin	6245 Aug 22 01:43	3° $\mathcal{M}$ 40'24	
min. Earth dist.	6239 Dec 12 10:10	21° $\Pi$ 21'15	8.57234 AU	behind sun end	6245 Aug 22 15:19	3° $\mathcal{M}$ 44'42	
direct	6240 Feb 18 11:07	17° $\Pi$ 59'30		max. Earth dist.	6245 Aug 22 08:56	3° $\mathcal{M}$ 42'40	10.19628 AU
evening set	6240 May 28 19:03	25° $\Pi$ 24'48		morning rise	6245 Sep 09 09:41	6° $\mathcal{M}$ 00'00	

retrograde	6245 Dec 23 14:15	14° <del>10</del> 05'17			6252 Jun 22 08:40	30° <del>8</del> <del>11</del>	
opposition	6246 Mar 01 03:26	10° <del>10</del> 37'24	0°27'00	direct	6252 Jul 28 12:41	28° <del>11</del> 54'31	
min. Earth dist.	6246 Mar 01 02:58	10° <del>10</del> 37'30	8.18183 AU		6252 Sep 02 09:28	0° <del>7</del>	
direct	6246 May 07 05:01	7° <del>10</del> 10'22		evening set	6252 Nov 11 13:29	6° <del>7</del> 51'48	
evening set	6246 Aug 18 22:10	15° <del>10</del> 10'19					
				conjunction	6252 Nov 29 01:50	9° <del>7</del> 02'54	2°03'42
conjunction	6246 Sep 05 22:55	17° <del>10</del> 27'59	0°36'12	minimum elong	6252 Nov 29 01:51	9° <del>7</del> 02'54	2°03'45
minimum elong	6246 Sep 05 22:54	17° <del>10</del> 27'59	0°36'12	max. Earth dist.	6252 Nov 28 22:20	9° <del>7</del> 01'47	10.39957 AU
max. Earth dist.	6246 Sep 05 23:22	17° <del>10</del> 28'08	10.17222 AU	morning rise	6252 Dec 16 10:15	11° <del>7</del> 12'49	
morning rise	6246 Sep 24 00:18	19° <del>10</del> 45'53		retrograde	6253 Mar 27 13:07	18° <del>7</del> 49'46	
retrograde	6247 Jan 06 17:39	27° <del>10</del> 50'42		opposition	6253 Jun 02 21:37	15° <del>7</del> 27'47	2°29'37
opposition	6247 Mar 14 22:45	24° <del>10</del> 23'15	1°02'35	min. Earth dist.	6253 Jun 02 23:39	15° <del>7</del> 27'23	8.43870 AU
min. Earth dist.	6247 Mar 14 22:10	24° <del>10</del> 23'23	8.16783 AU	direct	6253 Aug 11 08:31	12° <del>7</del> 00'59	
direct	6247 May 21 03:31	20° <del>10</del> 55'38		evening set	6253 Nov 25 04:16	19° <del>7</del> 52'52	
evening set	6247 Sep 02 14:20	28° <del>10</del> 59'10					
	6247 Sep 10 14:38	0° <del>11</del>		conjunction	6253 Dec 12 13:40	22° <del>7</del> 02'06	1°56'34
				minimum elong	6253 Dec 12 13:42	22° <del>7</del> 02'06	1°56'37
conjunction	6247 Sep 20 15:06	1° <del>11</del> 16'56	1°03'38	max. Earth dist.	6253 Dec 12 10:49	22° <del>7</del> 01'12	10.47653 AU
minimum elong	6247 Sep 20 15:04	1° <del>11</del> 16'55	1°03'38	morning rise	6253 Dec 29 18:53	24° <del>7</del> 10'06	
max. Earth dist.	6247 Sep 20 15:27	1° <del>11</del> 17'03	10.16795 AU		6254 Feb 24 12:21	0° <del>8</del>	
morning rise	6247 Oct 08 15:18	3° <del>11</del> 34'35		retrograde	6254 Apr 09 12:43	1° <del>8</del> 40'52	
retrograde	6248 Jan 20 19:31	11° <del>11</del> 37'23			6254 May 24 17:59	30° <del>8</del> <del>7</del>	
opposition	6248 Mar 27 18:33	8° <del>11</del> 10'35	1°34'36	opposition	6254 Jun 16 03:43	28° <del>7</del> 19'48	2°16'59
min. Earth dist.	6248 Mar 27 18:15	8° <del>11</del> 10'39	8.17397 AU	min. Earth dist.	6254 Jun 16 05:45	28° <del>7</del> 19'24	8.51722 AU
direct	6248 Jun 03 04:55	4° <del>11</del> 42'33		direct	6254 Aug 24 22:53	24° <del>7</del> 53'47	
evening set	6248 Sep 16 07:17	12° <del>11</del> 48'07			6254 Nov 15 12:44	0° <del>8</del>	
				evening set	6254 Dec 08 10:58	2° <del>8</del> 39'28	
conjunction	6248 Oct 04 06:48	15° <del>11</del> 05'19	1°27'22				
minimum elong	6248 Oct 04 06:46	15° <del>11</del> 05'18	1°27'23	conjunction	6254 Dec 25 17:32	4° <del>8</del> 46'52	1°43'45
max. Earth dist.	6248 Oct 04 06:25	15° <del>11</del> 05'12	10.18368 AU	minimum elong	6254 Dec 25 17:34	4° <del>8</del> 46'53	1°43'48
morning rise	6248 Oct 22 04:44	17° <del>11</del> 02'06		max. Earth dist.	6254 Dec 25 15:02	4° <del>8</del> 46'06	10.55627 AU
retrograde	6249 Feb 02 18:02	25° <del>11</del> 02'124		morning rise	6255 Jan 11 20:00	6° <del>8</del> 53'05	
opposition	6249 Apr 10 13:52	21° <del>11</del> 55'25	2°01'04	retrograde	6255 Apr 22 06:37	14° <del>8</del> 17'58	
min. Earth dist.	6249 Apr 10 14:27	21° <del>11</del> 55'18	8.19961 AU	opposition	6255 Jun 29 06:19	10° <del>8</del> 57'40	1°57'55
direct	6249 Jun 17 08:22	18° <del>11</del> 02'09		min. Earth dist.	6255 Jun 29 08:35	10° <del>8</del> 57'13	8.59665 AU
evening set	6249 Sep 30 22:27	26° <del>11</del> 33'00		direct	6255 Sep 07 08:26	7° <del>8</del> 32'31	
				evening set	6255 Dec 21 09:32	15° <del>8</del> 11'35	
conjunction	6249 Oct 18 19:46	28° <del>11</del> 49'06	1°46'02				
minimum elong	6249 Oct 18 19:43	28° <del>11</del> 49'06	1°46'03	conjunction	6256 Jan 07 13:25	17° <del>8</del> 17'14	1°26'11
max. Earth dist.	6249 Oct 18 18:06	28° <del>11</del> 48'34	10.21790 AU	minimum elong	6256 Jan 07 13:27	17° <del>8</del> 17'15	1°26'13
	6249 Oct 28 02:09	0° <del>12</del>		max. Earth dist.	6256 Jan 07 10:45	17° <del>8</del> 16'25	10.63507 AU
morning rise	6249 Nov 05 14:42	1° <del>12</del> 04'31		morning rise	6256 Jan 24 13:42	19° <del>8</del> 21'48	
retrograde	6250 Feb 16 11:31	8° <del>12</del> 59'06		retrograde	6256 May 03 18:37	26° <del>8</del> 41'27	
opposition	6250 Apr 24 07:40	5° <del>12</del> 34'03	2°20'28	opposition	6256 Jul 11 05:06	23° <del>8</del> 21'44	1°33'40
min. Earth dist.	6250 Apr 24 09:21	5° <del>12</del> 33'42	8.24224 AU	min. Earth dist.	6256 Jul 11 07:10	23° <del>8</del> 21'20	8.67328 AU
direct	6250 Jul 01 11:51	2° <del>12</del> 05'46		direct	6256 Sep 19 14:06	19° <del>8</del> 57'30	
evening set	6250 Oct 15 09:42	10° <del>12</del> 10'12		evening set	6257 Jan 02 00:46	27° <del>8</del> 29'58	
conjunction	6250 Nov 02 04:10	12° <del>12</del> 24'50	1°58'35	conjunction	6257 Jan 19 02:17	29° <del>8</del> 34'00	1°04'54
minimum elong	6250 Nov 02 04:08	12° <del>12</del> 24'49	1°58'36	minimum elong	6257 Jan 19 02:19	29° <del>8</del> 34'00	1°04'55
max. Earth dist.	6250 Nov 02 01:03	12° <del>12</del> 23'50	10.26743 AU	max. Earth dist.	6257 Jan 18 23:54	29° <del>8</del> 33'16	10.70924 AU
morning rise	6250 Nov 19 19:38	14° <del>12</del> 38'31			6257 Jan 22 15:33	0° <del>9</del>	
	6250 Nov 22 16:52	15° <del>12</del>		morning rise	6257 Feb 05 00:40	1° <del>9</del> 37'05	
retrograde	6251 Mar 02 01:02	22° <del>12</del> 27'36		retrograde	6257 May 16 04:00	8° <del>9</del> 52'21	
opposition	6251 May 07 23:10	19° <del>12</del> 03'34	2°31'49	opposition	6257 Jul 24 00:11	5° <del>9</del> 33'02	1°05'35
min. Earth dist.	6251 May 08 01:41	19° <del>12</del> 03'04	8.29827 AU	min. Earth dist.	6257 Jul 24 01:18	5° <del>9</del> 32'50	8.74359 AU
direct	6251 Jul 15 13:30	15° <del>12</del> 35'34		direct	6257 Oct 02 14:45	2° <del>9</del> 09'43	
evening set	6251 Oct 29 15:10	23° <del>12</del> 37'06		evening set	6258 Jan 14 09:24	9° <del>9</del> 35'56	
conjunction	6251 Nov 16 06:32	25° <del>12</del> 50'02	2°04'29	conjunction	6258 Jan 31 08:50	11° <del>9</del> 38'33	0°41'00
minimum elong	6251 Nov 16 06:31	25° <del>12</del> 50'01	2°04'32	minimum elong	6258 Jan 31 08:51	11° <del>9</del> 38'33	0°41'01
max. Earth dist.	6251 Nov 16 02:36	25° <del>12</del> 48'47	10.32888 AU	max. Earth dist.	6258 Jan 31 07:44	11° <del>9</del> 38'13	10.77543 AU
morning rise	6251 Dec 03 18:25	28° <del>12</del> 01'51		morning rise	6258 Feb 17 05:30	13° <del>9</del> 40'20	
	6251 Dec 20 02:54	0° <del>13</del>			6258 Feb 28 15:24	15° <del>9</del>	
retrograde	6252 Mar 14 09:42	5° <del>13</del> 44'59		retrograde	6258 May 28 11:04	20° <del>9</del> 52'19	
opposition	6252 May 20 11:59	2° <del>13</del> 22'00	2°34'47	opposition	6258 Aug 05 16:21	17° <del>9</del> 33'13	0°35'04
min. Earth dist.	6252 May 20 14:21	2° <del>13</del> 21'32	8.36466 AU	min. Earth dist.	6258 Aug 05 16:18	17° <del>9</del> 33'13	8.80456 AU

	6258 Sep 13 04:09	15° $\approx$	morning rise	6264 Apr 26 23:03	23° $\Upsilon$ 56'03
direct	6258 Oct 15 08:36	14° $\approx$ 10'50		6264 Jun 29 20:06	0° $\mathcal{B}$
	6258 Nov 16 01:52	15° $\approx$	retrograde	6264 Aug 07 20:14	1° $\mathcal{B}$ 13'26
evening set	6259 Jan 26 12:26	21° $\approx$ 31'25		6264 Sep 16 16:30	30° $\mathcal{R}\Upsilon$
			opposition	6264 Oct 17 11:08	27° $\Upsilon$ 52'25 -2°09'37
conjunction	6259 Feb 12 09:56	23° $\approx$ 32'47 0°15'38	min. Earth dist.	6264 Oct 17 08:21	27° $\Upsilon$ 52'56 8.87412 AU
minimum elong	6259 Feb 12 09:56	23° $\approx$ 32'47 0°15'39	direct	6264 Dec 26 01:24	24° $\Upsilon$ 33'27
behind sun begin	6259 Feb 12 08:03	23° $\approx$ 32'13		6265 Mar 21 13:10	0° $\mathcal{B}$
behind sun end	6259 Feb 12 11:50	23° $\approx$ 33'21	evening set	6265 Apr 05 09:52	1° $\mathcal{B}$ 42'12
max. Earth dist.	6259 Feb 12 10:14	23° $\approx$ 32'52 10.83086 AU			
morning rise	6259 Mar 01 05:08	25° $\approx$ 33'31	conjunction	6265 Apr 22 02:16	3° $\mathcal{B}$ 41'52 -1°52'08
	6259 Apr 12 07:39	0° $\mathcal{H}$	minimum elong	6265 Apr 22 02:14	3° $\mathcal{B}$ 41'52 1°52'10
retrograde	6259 Jun 09 15:52	2° $\mathcal{H}$ 43'24	max. Earth dist.	6265 Apr 22 04:46	3° $\mathcal{B}$ 42'38 10.85347 AU
	6259 Aug 10 07:11	30° $\mathcal{R}\approx$	morning rise	6265 May 08 21:05	5° $\mathcal{B}$ 42'14
opposition	6259 Aug 18 06:01	29° $\approx$ 24'21 0°03'25	retrograde	6265 Aug 20 09:13	13° $\mathcal{B}$ 04'09
min. Earth dist.	6259 Aug 18 05:30	29° $\approx$ 24'27 8.85376 AU	opposition	6265 Oct 29 23:52	9° $\mathcal{B}$ 42'23 -2°24'01
desc. node	6259 Sep 27 22:37	26° $\approx$ 45'38	min. Earth dist.	6265 Oct 29 21:19	9° $\mathcal{B}$ 42'51 8.83177 AU
direct	6259 Oct 27 22:14	26° $\approx$ 02'50	direct	6266 Jan 07 05:46	6° $\mathcal{B}$ 23'23
	6260 Jan 08 07:20	0° $\mathcal{H}$	evening set	6266 Apr 17 09:24	13° $\mathcal{B}$ 34'02
evening set	6260 Feb 07 11:22	3° $\mathcal{H}$ 18'43		6266 Apr 29 08:37	15° $\mathcal{B}$
conjunction	6260 Feb 24 07:01	5° $\mathcal{H}$ 19'03 -0°10'15	conjunction	6266 May 04 03:05	15° $\mathcal{B}$ 34'36 -2°01'23
minimum elong	6260 Feb 24 07:00	5° $\mathcal{H}$ 19'03 0°10'14	minimum elong	6266 May 04 03:04	15° $\mathcal{B}$ 34'36 2°01'25
behind sun begin	6260 Feb 24 01:23	5° $\mathcal{H}$ 17'23	max. Earth dist.	6266 May 04 06:13	15° $\mathcal{B}$ 35'33 10.80430 AU
behind sun end	6260 Feb 24 12:37	5° $\mathcal{H}$ 20'43	morning rise	6266 May 20 23:45	17° $\mathcal{B}$ 36'05
max. Earth dist.	6260 Feb 24 07:26	5° $\mathcal{H}$ 19'11 10.87337 AU	retrograde	6266 Sep 02 01:59	25° $\mathcal{B}$ 03'11
morning rise	6260 Mar 12 01:11	7° $\mathcal{H}$ 18'59	opposition	6266 Nov 11 14:43	21° $\mathcal{B}$ 40'32 -2°32'23
retrograde	6260 Jun 20 19:55	14° $\mathcal{H}$ 27'58	min. Earth dist.	6266 Nov 11 11:39	21° $\mathcal{B}$ 41'07 8.77658 AU
opposition	6260 Aug 29 17:34	11° $\mathcal{H}$ 08'51 -0°28'03	direct	6267 Jan 19 11:29	18° $\mathcal{B}$ 21'19
min. Earth dist.	6260 Aug 29 17:06	11° $\mathcal{H}$ 08'57 8.88928 AU	evening set	6267 Apr 29 13:04	25° $\mathcal{B}$ 34'49
direct	6260 Nov 08 07:35	7° $\mathcal{H}$ 48'06			
evening set	6261 Feb 18 07:17	15° $\mathcal{H}$ 00'19	conjunction	6267 May 16 08:55	27° $\mathcal{B}$ 36'42 -2°05'26
			minimum elong	6267 May 16 08:54	27° $\mathcal{B}$ 36'42 2°05'28
conjunction	6261 Mar 07 01:20	16° $\mathcal{H}$ 59'54 -0°35'26	max. Earth dist.	6267 May 16 12:59	27° $\mathcal{B}$ 37'56 10.74336 AU
minimum elong	6261 Mar 07 01:19	16° $\mathcal{H}$ 59'54 0°35'25	morning rise	6267 Jun 02 08:03	29° $\mathcal{B}$ 39'37
max. Earth dist.	6261 Mar 07 01:44	17° $\mathcal{H}$ 00'01 10.90128 AU		6267 Jun 05 04:52	0° $\mathcal{H}$
morning rise	6261 Mar 23 18:51	18° $\mathcal{H}$ 59'18	retrograde	6267 Sep 14 23:52	7° $\mathcal{H}$ 12'19
retrograde	6261 Jul 02 22:03	26° $\mathcal{H}$ 08'40	opposition	6267 Nov 24 08:08	3° $\mathcal{H}$ 48'46 -2°34'09
opposition	6261 Sep 11 03:59	22° $\mathcal{H}$ 49'18 -0°58'09	min. Earth dist.	6267 Nov 24 04:33	3° $\mathcal{H}$ 49'27 8.71060 AU
min. Earth dist.	6261 Sep 11 02:59	22° $\mathcal{H}$ 49'29 8.90960 AU	direct	6268 Jan 31 20:33	0° $\mathcal{H}$ 29'08
direct	6261 Nov 20 14:34	19° $\mathcal{H}$ 29'13	evening set	6268 May 10 22:07	7° $\mathcal{H}$ 46'22
evening set	6262 Mar 02 01:18	26° $\mathcal{H}$ 38'53			
			conjunction	6268 May 27 20:44	9° $\mathcal{H}$ 49'54 -2°03'55
conjunction	6262 Mar 18 18:14	28° $\mathcal{H}$ 37'59 -0°59'05	minimum elong	6268 May 27 20:45	9° $\mathcal{H}$ 49'54 2°03'56
minimum elong	6262 Mar 18 18:13	28° $\mathcal{H}$ 37'58 0°59'05	max. Earth dist.	6268 May 28 00:47	9° $\mathcal{H}$ 51'08 10.67300 AU
max. Earth dist.	6262 Mar 18 19:40	28° $\mathcal{H}$ 38'24 10.91338 AU	morning rise	6268 Jun 13 23:05	11° $\mathcal{H}$ 54'34
	6262 Mar 30 05:12	0° $\Upsilon$	retrograde	6268 Sep 27 03:45	19° $\mathcal{H}$ 33'01
morning rise	6262 Apr 04 11:17	0° $\Upsilon$ 37'07	opposition	6268 Dec 06 04:33	16° $\mathcal{H}$ 08'34 -2°28'55
retrograde	6262 Jul 15 03:28	7° $\Upsilon$ 48'08	min. Earth dist.	6268 Dec 06 01:09	16° $\mathcal{H}$ 09'14 8.63640 AU
opposition	6262 Sep 23 13:55	4° $\Upsilon$ 28'20 -1°25'47	direct	6269 Feb 12 06:51	12° $\mathcal{H}$ 48'18
min. Earth dist.	6262 Sep 23 11:38	4° $\Upsilon$ 28'45 8.91385 AU	evening set	6269 May 23 13:12	20° $\mathcal{H}$ 10'03
direct	6262 Dec 02 20:23	1° $\Upsilon$ 08'49			
evening set	6263 Mar 13 18:56	8° $\Upsilon$ 17'00	conjunction	6269 Jun 09 15:16	22° $\mathcal{H}$ 15'30 -1°56'38
			minimum elong	6269 Jun 09 15:18	22° $\mathcal{H}$ 15'31 1°56'39
conjunction	6263 Mar 30 11:14	10° $\Upsilon$ 15'58 -1°20'17	max. Earth dist.	6269 Jun 09 18:08	22° $\mathcal{H}$ 16'23 10.59598 AU
minimum elong	6263 Mar 30 11:12	10° $\Upsilon$ 15'57 1°20'18	morning rise	6269 Jun 26 21:32	24° $\mathcal{H}$ 22'14
max. Earth dist.	6263 Mar 30 14:01	10° $\Upsilon$ 16'48 10.90920 AU		6269 Aug 20 06:50	0° $\mathcal{G}$
morning rise	6263 Apr 16 04:12	12° $\Upsilon$ 15'10	retrograde	6269 Oct 10 11:01	2° $\mathcal{G}$ 06'21
retrograde	6263 Jul 27 11:17	19° $\Upsilon$ 28'52		6269 Dec 01 19:55	30° $\mathcal{R}\mathcal{H}$
opposition	6263 Oct 06 00:01	16° $\Upsilon$ 08'31 -1°49'56	opposition	6269 Dec 19 04:25	28° $\mathcal{H}$ 41'02 -2°16'35
min. Earth dist.	6263 Oct 05 21:05	16° $\Upsilon$ 09'04 8.90187 AU	min. Earth dist.	6269 Dec 19 02:07	28° $\mathcal{H}$ 41'29 8.55679 AU
direct	6263 Dec 14 22:32	12° $\Upsilon$ 49'23	direct	6270 Feb 24 22:08	25° $\mathcal{H}$ 19'54
evening set	6264 Mar 24 13:26	19° $\Upsilon$ 57'18		6270 May 12 10:10	0° $\mathcal{G}$
			evening set	6270 Jun 05 10:56	2° $\mathcal{G}$ 46'53
conjunction	6264 Apr 10 05:29	21° $\Upsilon$ 56'26 -1°38'13	conjunction	6270 Jun 22 17:09	4° $\mathcal{G}$ 54'31 -1°43'38
minimum elong	6264 Apr 10 05:27	21° $\Upsilon$ 56'25 1°38'15	minimum elong	6270 Jun 22 17:12	4° $\mathcal{G}$ 54'32 1°43'40
max. Earth dist.	6264 Apr 10 08:19	21° $\Upsilon$ 57'16 10.88894 AU			

max. Earth dist.	6270 Jun 22 19:00	4° $\mathbb{E}$ 55'05	10.51507 AU	morning rise	6276 Oct 01 06:29	27° $\mathbb{M}$ 28'12	
morning rise	6270 Jul 10 03:43	7° $\mathbb{E}$ 03'28			6276 Oct 22 05:21	0° $\mathbb{E}$	
retrograde	6270 Oct 23 22:08	14° $\mathbb{E}$ 53'03		retrograde	6277 Jan 13 15:50	5° $\mathbb{E}$ 31'10	
opposition	6271 Jan 01 07:44	11° $\mathbb{E}$ 26'57	-1°57'19	opposition	6277 Mar 21 18:27	2° $\mathbb{E}$ 03'52	1°20'27
min. Earth dist.	6271 Jan 01 06:26	11° $\mathbb{E}$ 27'12	8.47474 AU	min. Earth dist.	6277 Mar 21 20:01	2° $\mathbb{E}$ 03'32	8.17459 AU
direct	6271 Mar 09 19:33	8° $\mathbb{E}$ 04'48			6277 Apr 17 21:09	30° $\mathbb{R}$ $\mathbb{M}$	
evening set	6271 Jun 18 16:13	15° $\mathbb{E}$ 37'38		direct	6277 May 28 03:36	28° $\mathbb{M}$ 35'42	
					6277 Jul 07 00:24	0° $\mathbb{E}$	
conjunction	6271 Jul 06 02:57	17° $\mathbb{E}$ 47'36	-1°25'17	evening set	6277 Sep 09 20:36	6° $\mathbb{E}$ 39'38	
minimum elong	6271 Jul 06 03:00	17° $\mathbb{E}$ 47'37	1°25'19				
max. Earth dist.	6271 Jul 06 04:17	17° $\mathbb{E}$ 48'01	10.43362 AU	conjunction	6277 Sep 27 20:43	8° $\mathbb{E}$ 57'01	1°16'59
morning rise	6271 Jul 23 17:46	19° $\mathbb{E}$ 58'49		minimum elong	6277 Sep 27 20:40	8° $\mathbb{E}$ 57'00	1°16'59
retrograde	6271 Nov 06 15:06	27° $\mathbb{E}$ 53'25		max. Earth dist.	6277 Sep 27 18:09	8° $\mathbb{E}$ 56'12	10.17692 AU
opposition	6272 Jan 14 14:26	24° $\mathbb{E}$ 26'38	-1°31'45	morning rise	6277 Oct 15 19:58	11° $\mathbb{E}$ 14'09	
min. Earth dist.	6272 Jan 14 13:32	24° $\mathbb{E}$ 26'49	8.39444 AU	retrograde	6278 Jan 27 13:50	19° $\mathbb{E}$ 14'34	
direct	6272 Mar 21 20:35	21° $\mathbb{E}$ 03'25		opposition	6278 Apr 04 13:03	15° $\mathbb{E}$ 47'50	1°49'38
evening set	6272 Jul 01 05:15	28° $\mathbb{E}$ 42'27		min. Earth dist.	6278 Apr 04 14:34	15° $\mathbb{E}$ 47'31	8.18541 AU
	6272 Jul 11 14:29	0° $\mathbb{Q}$		direct	6278 Jun 11 06:00	12° $\mathbb{E}$ 19'13	
				evening set	6278 Sep 24 12:01	20° $\mathbb{E}$ 24'34	
conjunction	6272 Jul 18 20:26	0° $\mathbb{Q}$ 54'42	-1°02'15				
minimum elong	6272 Jul 18 20:28	0° $\mathbb{Q}$ 54'43	1°02'17	conjunction	6278 Oct 12 10:31	22° $\mathbb{E}$ 41'12	1°38'05
max. Earth dist.	6272 Jul 18 21:43	0° $\mathbb{Q}$ 55'06	10.35641 AU	minimum elong	6278 Oct 12 10:28	22° $\mathbb{E}$ 41'11	1°38'06
morning rise	6272 Aug 05 15:08	3° $\mathbb{Q}$ 08'05		max. Earth dist.	6278 Oct 12 08:04	22° $\mathbb{E}$ 40'25	10.19708 AU
retrograde	6272 Nov 19 12:15	11° $\mathbb{Q}$ 06'54		morning rise	6278 Oct 30 07:02	24° $\mathbb{E}$ 57'15	
opposition	6273 Jan 27 00:43	7° $\mathbb{Q}$ 39'34	-1°00'53		6278 Dec 14 08:39	0° $\mathbb{M}$	
min. Earth dist.	6273 Jan 26 23:43	7° $\mathbb{Q}$ 39'46	8.32100 AU	retrograde	6279 Feb 10 09:21	2° $\mathbb{M}$ 53'51	
direct	6273 Apr 04 02:44	4° $\mathbb{Q}$ 15'13			6279 Apr 11 16:10	30° $\mathbb{R}$ $\mathbb{E}$	
evening set	6273 Jul 15 01:50	12° $\mathbb{Q}$ 00'29		opposition	6279 Apr 18 06:57	29° $\mathbb{E}$ 27'52	2°12'26
				min. Earth dist.	6279 Apr 18 08:23	29° $\mathbb{E}$ 27'34	8.21525 AU
conjunction	6273 Aug 01 20:56	14° $\mathbb{Q}$ 14'47	-0°35'34	direct	6279 Jun 25 08:04	25° $\mathbb{E}$ 59'05	
minimum elong	6273 Aug 01 20:58	14° $\mathbb{Q}$ 14'48	0°35'36		6279 Sep 03 19:57	0° $\mathbb{M}$	
max. Earth dist.	6273 Aug 01 21:49	14° $\mathbb{Q}$ 15'04	10.28839 AU	evening set	6279 Oct 09 00:36	4° $\mathbb{M}$ 04'04	
	6273 Aug 07 19:43	15° $\mathbb{Q}$					
morning rise	6273 Aug 19 18:55	16° $\mathbb{Q}$ 30'03		conjunction	6279 Oct 26 20:37	6° $\mathbb{M}$ 19'28	1°53'33
retrograde	6273 Dec 03 12:03	24° $\mathbb{Q}$ 31'59		minimum elong	6279 Oct 26 20:35	6° $\mathbb{M}$ 19'27	1°53'35
opposition	6274 Feb 09 14:08	21° $\mathbb{Q}$ 04'17	-0°26'14	max. Earth dist.	6279 Oct 26 18:19	6° $\mathbb{M}$ 18'44	10.23549 AU
min. Earth dist.	6274 Feb 09 13:27	21° $\mathbb{Q}$ 04'25	8.25905 AU	morning rise	6279 Nov 13 13:43	8° $\mathbb{M}$ 34'01	
direct	6274 Apr 17 14:18	17° $\mathbb{Q}$ 38'49			6280 Jan 15 02:40	15° $\mathbb{M}$	
evening set	6274 Jul 29 05:40	25° $\mathbb{Q}$ 30'03		retrograde	6280 Feb 24 02:06	16° $\mathbb{M}$ 25'42	
					6280 Apr 04 15:29	15° $\mathbb{R}$ $\mathbb{M}$	
conjunction	6274 Aug 16 03:49	27° $\mathbb{Q}$ 46'01	-0°06'40	opposition	6280 Apr 30 23:13	13° $\mathbb{M}$ 00'38	2°27'36
minimum elong	6274 Aug 16 03:49	27° $\mathbb{Q}$ 46'01	0°06'42	min. Earth dist.	6280 May 01 00:47	13° $\mathbb{M}$ 00'18	8.26225 AU
behind sun begin	6274 Aug 15 21:00	27° $\mathbb{Q}$ 43'52		direct	6280 Jul 08 08:51	9° $\mathbb{M}$ 31'57	
behind sun end	6274 Aug 16 10:37	27° $\mathbb{Q}$ 48'09			6280 Sep 30 17:18	15° $\mathbb{M}$	
max. Earth dist.	6274 Aug 16 03:34	27° $\mathbb{Q}$ 45'56	10.23372 AU	evening set	6280 Oct 22 08:30	17° $\mathbb{M}$ 34'52	
	6274 Sep 02 19:31	0° $\mathbb{M}$					
morning rise	6274 Sep 03 04:05	0° $\mathbb{M}$ 02'40		conjunction	6280 Nov 09 01:33	19° $\mathbb{M}$ 48'41	2°02'35
asc. node	6274 Nov 08 22:04	6° $\mathbb{M}$ 48'10		minimum elong	6280 Nov 09 01:32	19° $\mathbb{M}$ 48'41	2°02'38
retrograde	6274 Dec 17 13:22	8° $\mathbb{M}$ 06'22		max. Earth dist.	6280 Nov 08 23:08	19° $\mathbb{M}$ 47'55	10.28997 AU
opposition	6275 Feb 23 05:57	4° $\mathbb{M}$ 38'35	0°10'20	morning rise	6280 Nov 26 15:03	22° $\mathbb{M}$ 01'27	
min. Earth dist.	6275 Feb 23 06:11	4° $\mathbb{M}$ 38'32	8.21236 AU	retrograde	6281 Mar 08 12:46	29° $\mathbb{M}$ 47'24	
direct	6275 May 01 06:21	1° $\mathbb{M}$ 12'02		opposition	6281 May 14 12:59	26° $\mathbb{M}$ 23'21	2°34'30
evening set	6275 Aug 12 15:21	9° $\mathbb{M}$ 08'38		min. Earth dist.	6281 May 14 15:09	26° $\mathbb{M}$ 22'55	8.32371 AU
				direct	6281 Jul 22 08:53	22° $\mathbb{M}$ 55'04	
conjunction	6275 Aug 30 15:21	11° $\mathbb{M}$ 25'42	0°22'59		6281 Oct 28 23:46	0° $\mathbb{X}$	
minimum elong	6275 Aug 30 15:20	11° $\mathbb{M}$ 25'42	0°22'58	evening set	6281 Nov 05 10:04	0° $\mathbb{X}$ 54'22	
max. Earth dist.	6275 Aug 30 13:57	11° $\mathbb{M}$ 25'15	10.19564 AU				
morning rise	6275 Sep 17 16:39	13° $\mathbb{M}$ 43'10		conjunction	6281 Nov 22 23:55	3° $\mathbb{X}$ 06'23	2°04'55
retrograde	6275 Dec 31 15:27	21° $\mathbb{M}$ 47'13		minimum elong	6281 Nov 22 23:55	3° $\mathbb{X}$ 06'23	2°04'58
opposition	6276 Mar 07 23:43	18° $\mathbb{M}$ 19'34	0°46'39	max. Earth dist.	6281 Nov 22 20:54	3° $\mathbb{X}$ 05'25	10.35739 AU
min. Earth dist.	6276 Mar 08 00:49	18° $\mathbb{M}$ 19'21	8.18367 AU	morning rise	6281 Dec 10 09:58	5° $\mathbb{X}$ 17'15	
direct	6276 May 14 02:57	14° $\mathbb{M}$ 52'06		retrograde	6282 Mar 21 17:45	12° $\mathbb{X}$ 56'59	
evening set	6276 Aug 26 04:55	22° $\mathbb{M}$ 53'02		opposition	6282 May 27 23:49	9° $\mathbb{X}$ 34'03	2°33'06
				min. Earth dist.	6282 May 28 02:19	9° $\mathbb{X}$ 33'33	8.39615 AU
conjunction	6276 Sep 13 05:34	25° $\mathbb{M}$ 10'35	0°51'26	direct	6282 Aug 05 06:14	6° $\mathbb{X}$ 06'24	
minimum elong	6276 Sep 13 05:31	25° $\mathbb{M}$ 10'34	0°51'25	evening set	6282 Nov 19 04:07	14° $\mathbb{X}$ 00'47	
max. Earth dist.	6276 Sep 13 03:19	25° $\mathbb{M}$ 09'52	10.17636 AU				

conjunction	6282 Dec 06 14:48	16°♊10'54	2°00'43	conjunction	6289 Feb 18 01:46	0°♋01'11	0°02'04
minimum elong	6282 Dec 06 14:49	16°♊10'54	2°00'46	minimum elong	6289 Feb 18 01:45	0°♋01'11	0°02'05
max. Earth dist.	6282 Dec 06 11:28	16°♊09'51	10.43402 AU	behind sun begin	6289 Feb 17 18:44	29°♊59'06	
morning rise	6282 Dec 23 21:38	18°♊19'49		behind sun end	6289 Feb 18 08:46	0°♋03'16	
retrograde	6283 Apr 03 18:19	25°♊53'18		max. Earth dist.	6289 Feb 18 01:56	0°♋01'13	10.86641 AU
opposition	6283 Jun 10 07:13	22°♊31'26	2°23'51	morning rise	6289 Mar 06 20:27	2°♋01'23	
min. Earth dist.	6283 Jun 10 09:16	22°♊31'01	8.47565 AU	desc. node	6289 Mar 19 10:03	3°♋28'11	
direct	6283 Aug 18 23:00	19°♊04'40		retrograde	6289 Jun 15 11:37	9°♋10'34	
evening set	6283 Dec 02 14:08	26°♊53'10		opposition	6289 Aug 24 05:01	5°♋52'05	-0°13'13
				min. Earth dist.	6289 Aug 24 03:57	5°♋52'17	8.88627 AU
conjunction	6283 Dec 19 21:57	29°♊01'25	1°50'28	direct	6289 Nov 02 20:39	2°♋31'33	
minimum elong	6283 Dec 19 21:59	29°♊01'25	1°50'32	evening set	6290 Feb 13 02:44	9°♋45'19	
max. Earth dist.	6283 Dec 19 19:14	29°♊00'34	10.51586 AU				
	6283 Dec 27 18:50	0°♋		conjunction	6290 Mar 01 21:37	11°♋45'10	-0°23'37
morning rise	6284 Jan 06 01:53	1°♋08'28		minimum elong	6290 Mar 01 21:36	11°♋45'10	0°23'36
retrograde	6284 Apr 15 14:02	8°♋35'53		max. Earth dist.	6290 Mar 01 22:45	11°♋45'30	10.90212 AU
opposition	6284 Jun 22 10:57	5°♋15'00	2°07'40	morning rise	6290 Mar 18 15:15	13°♋44'42	
min. Earth dist.	6284 Jun 22 12:09	5°♋14'46	8.55819 AU	retrograde	6290 Jun 27 15:23	20°♋53'38	
direct	6284 Aug 31 10:55	1°♋49'17		opposition	6290 Sep 05 16:14	17°♋34'58	-0°44'05
evening set	6284 Dec 14 16:07	9°♋31'20		min. Earth dist.	6290 Sep 05 14:59	17°♋35'12	8.91371 AU
				direct	6290 Nov 15 03:42	14°♋15'10	
conjunction	6284 Dec 31 21:23	11°♋37'47	1°35'02	evening set	6291 Feb 24 21:48	21°♋25'49	
minimum elong	6284 Dec 31 21:25	11°♋37'48	1°35'04				
max. Earth dist.	6284 Dec 31 19:48	11°♋37'18	10.59872 AU	conjunction	6291 Mar 13 15:14	23°♋25'03	-0°48'07
morning rise	6285 Jan 17 22:44	13°♋43'06		minimum elong	6291 Mar 13 15:13	23°♋25'02	0°48'06
retrograde	6285 Apr 28 05:27	21°♋05'00		max. Earth dist.	6291 Mar 13 16:07	23°♋25'19	10.92053 AU
opposition	6285 Jul 05 11:07	17°♋44'59	1°45'42	morning rise	6291 Mar 30 08:20	25°♋24'12	
min. Earth dist.	6285 Jul 05 11:45	17°♋44'52	8.63966 AU		6291 May 13 15:02	0°♌	
direct	6285 Sep 13 17:59	14°♋20'23		retrograde	6291 Jul 09 20:04	2°♌34'15	
evening set	6285 Dec 27 10:42	21°♋55'51			6291 Sep 07 23:51	30°♌♋	
				opposition	6291 Sep 18 02:40	29°♋15'12	-1°13'01
conjunction	6286 Jan 13 13:29	24°♋00'37	1°15'22	min. Earth dist.	6291 Sep 18 01:55	29°♋15'21	8.92333 AU
minimum elong	6286 Jan 13 13:31	24°♋00'38	1°15'24	direct	6291 Nov 27 10:03	25°♋55'54	
max. Earth dist.	6286 Jan 13 12:47	24°♋00'24	10.67854 AU		6292 Feb 08 16:27	0°♌	
morning rise	6286 Jan 30 12:37	26°♋04'20		evening set	6292 Mar 07 15:58	3°♌04'43	
	6286 Mar 07 06:41	0°♌					
retrograde	6286 May 10 17:58	3°♌21'29		conjunction	6292 Mar 24 08:23	5°♌03'40	-1°10'34
opposition	6286 Jul 18 07:55	0°♌02'11	1°19'16	minimum elong	6292 Mar 24 08:21	5°♌03'39	1°10'34
min. Earth dist.	6286 Jul 18 08:39	0°♌02'03	8.71636 AU	max. Earth dist.	6292 Mar 24 08:34	5°♌03'43	10.92085 AU
	6286 Jul 18 19:24	30°♌♋		morning rise	6292 Apr 10 01:24	7°♌02'47	
direct	6286 Sep 26 18:58	26°♋38'43		retrograde	6292 Jul 21 01:31	14°♌15'07	
	6286 Dec 01 20:29	0°♌		opposition	6292 Sep 29 12:52	10°♌55'29	-1°38'56
evening set	6287 Jan 08 22:30	4°♌07'46		min. Earth dist.	6292 Sep 29 12:14	10°♌55'36	8.91503 AU
				direct	6292 Dec 08 14:10	7°♌36'30	
conjunction	6287 Jan 25 22:54	6°♌11'00	0°52'34	evening set	6293 Mar 19 10:19	14°♌44'38	
minimum elong	6287 Jan 25 22:56	6°♌11'01	0°52'36				
max. Earth dist.	6287 Jan 25 22:08	6°♌10'46	10.75185 AU	conjunction	6293 Apr 05 02:22	16°♌43'39	-1°30'09
morning rise	6287 Feb 11 20:17	8°♌13'21		minimum elong	6293 Apr 05 02:20	16°♌43'38	1°30'10
	6287 Apr 30 06:43	15°♌		max. Earth dist.	6293 Apr 05 03:14	16°♌43'54	10.90363 AU
retrograde	6287 May 23 01:15	15°♌26'41		morning rise	6293 Apr 21 19:39	18°♌43'03	
	6287 Jun 15 02:39	15°♌♌		retrograde	6293 Aug 02 09:12	25°♌58'46	
opposition	6287 Jul 31 01:38	12°♌07'54	0°49'44	opposition	6293 Oct 11 23:53	22°♌38'20	-2°00'52
min. Earth dist.	6287 Jul 31 02:16	12°♌07'47	8.78505 AU	min. Earth dist.	6293 Oct 11 22:22	22°♌38'36	8.88973 AU
direct	6287 Oct 09 14:52	8°♌45'30		direct	6293 Dec 20 18:49	19°♌19'27	
	6288 Jan 11 08:00	15°♌		evening set	6294 Mar 31 05:56	26°♌27'57	
evening set	6288 Jan 21 04:15	16°♌08'40					
				conjunction	6294 Apr 16 22:13	28°♌27'23	-1°46'03
conjunction	6288 Feb 07 02:31	18°♌10'32	0°27'46	minimum elong	6294 Apr 16 22:11	28°♌27'23	1°46'05
minimum elong	6288 Feb 07 02:32	18°♌10'32	0°27'47	max. Earth dist.	6294 Apr 17 00:13	28°♌27'59	10.87005 AU
max. Earth dist.	6288 Feb 07 01:49	18°♌10'19	10.81547 AU		6294 Apr 29 19:32	0°♋	
morning rise	6288 Feb 23 22:32	20°♌11'42		morning rise	6294 May 03 16:16	0°♋27'24	
retrograde	6288 Jun 03 06:13	27°♌22'22		retrograde	6294 Aug 14 22:18	7°♋47'24	
opposition	6288 Aug 11 16:29	24°♌03'51	0°18'28	opposition	6294 Oct 24 12:11	4°♋26'00	-2°17'54
min. Earth dist.	6288 Aug 11 16:27	24°♌03'51	8.84261 AU	min. Earth dist.	6294 Oct 24 09:54	4°♋26'26	8.84882 AU
direct	6288 Oct 21 08:40	20°♌42'27		direct	6295 Jan 01 22:50	1°♋07'00	
evening set	6289 Feb 01 05:17	28°♌00'27		evening set	6295 Apr 12 04:15	8°♋16'57	
	6289 Feb 17 21:41	0°♋					



conjunction	6295 Apr 28 21:22	10°♄17'10 -1°57'36	conjunction	6301 Jul 13 20:39	25°♄05'29 -1°13'25
minimum elong	6295 Apr 28 21:21	10°♄17'09 1°57'38	minimum elong	6301 Jul 13 20:41	25°♄05'30 1°13'28
max. Earth dist.	6295 Apr 28 23:36	10°♄17'50 10.82179 AU	max. Earth dist.	6301 Jul 13 22:02	25°♄05'55 10.37011 AU
morning rise	6295 May 15 17:00	12°♄18'10	morning rise	6301 Jul 31 13:44	27°♄18'09
	6295 Jun 08 15:52	15°♄		6301 Aug 23 10:50	0°♄
retrograde	6295 Aug 27 13:27	19°♄43'07	retrograde	6301 Nov 14 12:05	5°♄15'56
opposition	6295 Nov 06 02:12	16°♄20'41 -2°29'14	opposition	6302 Jan 22 05:21	1°♄48'11 -1°15'44
min. Earth dist.	6295 Nov 06 00:02	16°♄21'05 8.79415 AU	min. Earth dist.	6302 Jan 22 04:10	1°♄48'26 8.33410 AU
	6295 Nov 24 09:05	15°♄♄		6302 Feb 14 22:54	30°♄♄
direct	6296 Jan 14 03:01	13°♄01'19	direct	6302 Mar 30 08:39	28°♄23'46
	6296 Mar 03 00:40	15°♄		6302 May 11 22:26	0°♄
evening set	6296 Apr 23 06:15	20°♄13'48	evening set	6302 Jul 10 01:00	6°♄06'55
conjunction	6296 May 10 00:55	22°♄15'09 -2°04'10	conjunction	6302 Jul 27 18:19	8°♄20'32 -0°48'14
minimum elong	6296 May 10 00:55	22°♄15'09 2°04'12	minimum elong	6302 Jul 27 18:21	8°♄20'32 0°48'17
max. Earth dist.	6296 May 10 02:35	22°♄15'39 10.76097 AU	max. Earth dist.	6302 Jul 27 19:08	8°♄20'47 10.30032 AU
morning rise	6296 May 26 22:54	24°♄17'29	morning rise	6302 Aug 14 15:08	10°♄35'12
	6296 Jul 22 21:18	0°♄		6302 Sep 22 13:35	15°♄
retrograde	6296 Sep 08 08:20	1°♄47'56	retrograde	6302 Nov 28 09:48	18°♄36'35
	6296 Oct 27 00:43	30°♄♄	opposition	6303 Feb 04 17:46	15°♄08'32 -0°42'33
opposition	6296 Nov 17 18:44	28°♄24'26 -2°34'12	min. Earth dist.	6303 Feb 04 17:05	15°♄08'40 8.26964 AU
min. Earth dist.	6296 Nov 17 17:01	28°♄24'46 8.72797 AU		6303 Feb 06 12:02	15°♄♄
direct	6297 Jan 25 10:55	25°♄04'31	direct	6303 Apr 12 19:08	11°♄43'07
	6297 Apr 15 03:44	0°♄		6303 Jun 13 23:05	15°♄
evening set	6297 May 05 12:43	2°♄20'27	evening set	6303 Jul 24 01:57	19°♄32'22
conjunction	6297 May 22 09:52	4°♄23'19 -2°05'19	conjunction	6303 Aug 10 22:49	21°♄47'49 -0°20'07
minimum elong	6297 May 22 09:52	4°♄23'20 2°05'21	minimum elong	6303 Aug 10 22:50	21°♄47'49 0°20'09
max. Earth dist.	6297 May 22 11:52	4°♄23'56 10.69006 AU	max. Earth dist.	6303 Aug 10 23:41	21°♄48'05 10.24253 AU
morning rise	6297 Jun 08 10:48	6°♄27'20	morning rise	6303 Aug 28 22:20	24°♄04'06
retrograde	6297 Sep 21 08:43	14°♄03'39		6303 Oct 23 10:02	0°♄
opposition	6297 Nov 30 14:07	10°♄39'04 -2°32'18	retrograde	6303 Dec 12 10:46	2°♄07'52
min. Earth dist.	6297 Nov 30 12:15	10°♄39'26 8.65300 AU		6304 Feb 01 11:00	30°♄♄
direct	6298 Feb 06 21:32	7°♄18'28	opposition	6304 Feb 18 08:55	28°♄39'47 -0°06'33
evening set	6298 May 18 00:57	14°♄38'41	min. Earth dist.	6304 Feb 18 08:07	28°♄39'56 8.21917 AU
conjunction	6298 Jun 04 01:29	16°♄43'25 -2°00'44	direct	6304 Apr 25 09:28	25°♄13'29
minimum elong	6298 Jun 04 01:30	16°♄43'26 2°00'46	asc. node	6304 Apr 25 18:11	25°♄13'29
max. Earth dist.	6298 Jun 04 04:19	16°♄44'18 10.61199 AU		6304 Jul 10 22:33	0°♄
morning rise	6298 Jun 21 05:56	18°♄49'23	evening set	6304 Aug 06 09:25	3°♄08'21
retrograde	6298 Oct 04 13:53	26°♄31'38	conjunction	6304 Aug 24 08:51	5°♄25'10 0°09'29
opposition	6298 Dec 13 12:35	23°♄06'02 -2°23'16	minimum elong	6304 Aug 24 08:50	5°♄25'10 0°09'27
min. Earth dist.	6298 Dec 13 10:11	23°♄06'30 8.57239 AU	behind sun begin	6304 Aug 24 02:47	5°♄23'15
direct	6299 Feb 19 11:52	19°♄44'36	behind sun end	6304 Aug 24 14:53	5°♄27'05
evening set	6299 May 30 19:46	27°♄09'52	max. Earth dist.	6304 Aug 24 09:44	5°♄25'27 10.20027 AU
conjunction	6299 Jun 17 00:15	29°♄16'44 -1°50'22	morning rise	6304 Sep 11 09:50	7°♄42'31
minimum elong	6299 Jun 17 00:17	29°♄16'45 1°50'24	retrograde	6304 Dec 25 14:20	15°♄47'20
max. Earth dist.	6299 Jun 17 03:18	29°♄17'41 10.53008 AU	opposition	6305 Mar 03 02:23	12°♄19'27 0°30'12
	6299 Jun 22 19:58	0°♄	min. Earth dist.	6305 Mar 03 01:33	12°♄19'37 8.18588 AU
morning rise	6299 Jul 04 08:45	1°♄24'53	direct	6305 May 09 03:24	8°♄52'23
retrograde	6299 Oct 18 00:46	9°♄12'51	evening set	6305 Aug 20 21:58	16°♄52'05
opposition	6299 Dec 26 14:33	5°♄46'21 -2°07'10	conjunction	6305 Sep 07 22:41	19°♄09'39 0°38'40
min. Earth dist.	6299 Dec 26 12:01	5°♄46'51 8.48965 AU	minimum elong	6305 Sep 07 22:39	19°♄09'39 0°38'39
direct	6300 Mar 04 05:57	2°♄24'00	max. Earth dist.	6305 Sep 07 23:13	19°♄09'50 10.17622 AU
evening set	6300 Jun 12 21:50	9°♄54'53	morning rise	6305 Sep 25 23:52	21°♄27'26
conjunction	6300 Jun 30 06:32	12°♄04'02 -1°34'25	retrograde	6306 Jan 08 17:12	29°♄31'47
minimum elong	6300 Jun 30 06:35	12°♄04'03 1°34'27	opposition	6306 Mar 16 21:22	26°♄04'22 1°05'27
max. Earth dist.	6300 Jun 30 08:50	12°♄04'45 10.44807 AU	min. Earth dist.	6306 Mar 16 20:56	26°♄04'27 8.17179 AU
morning rise	6300 Jul 17 19:21	14°♄14'28	direct	6306 May 23 02:28	22°♄36'43
retrograde	6300 Oct 31 17:03	22°♄07'42		6306 Aug 30 05:15	0°♄
opposition	6301 Jan 08 20:11	18°♄40'29 -1°44'22	evening set	6306 Sep 04 13:53	0°♄40'02
min. Earth dist.	6301 Jan 08 18:14	18°♄40'52 8.40878 AU	conjunction	6306 Sep 22 14:29	2°♄57'41 1°05'45
direct	6301 Mar 17 03:43	15°♄17'07	minimum elong	6306 Sep 22 14:27	2°♄57'41 1°05'45
evening set	6301 Jun 26 07:34	22°♄54'03	max. Earth dist.	6306 Sep 22 14:10	2°♄57'35 10.17181 AU
			morning rise	6306 Oct 10 14:32	5°♄15'13

retrograde	6307 Jan 22 17:36	13°♄17'35		min. Earth dist.	6313 Jun 18 03:59	29°♄55'17	8.51856 AU
opposition	6307 Mar 30 16:50	9°♄50'51	1°36'59	direct	6313 Aug 26 19:29	26°♄29'52	
min. Earth dist.	6307 Mar 30 17:20	9°♄50'44	8.17773 AU		6313 Nov 01 20:50	0°♄	
direct	6307 Jun 06 04:09	6°♄22'47		evening set	6313 Dec 10 08:03	4°♄15'27	
evening set	6307 Sep 19 06:33	14°♄28'11					
				conjunction	6313 Dec 27 14:28	6°♄22'50	1°42'13
conjunction	6307 Oct 07 05:49	16°♄45'17	1°29'04	minimum elong	6313 Dec 27 14:30	6°♄22'51	1°42'16
minimum elong	6307 Oct 07 05:46	16°♄45'16	1°29'05	max. Earth dist.	6313 Dec 27 10:48	6°♄21'42	10.55671 AU
max. Earth dist.	6307 Oct 07 04:16	16°♄44'47	10.18729 AU	morning rise	6314 Jan 13 17:00	8°♄29'04	
morning rise	6307 Oct 25 03:38	19°♄01'57		retrograde	6314 Apr 24 02:29	15°♄53'57	
retrograde	6308 Feb 05 15:20	27°♄00'53		opposition	6314 Jul 01 03:38	12°♄33'41	1°55'46
opposition	6308 Apr 12 11:59	23°♄34'58	2°02'51	min. Earth dist.	6314 Jul 01 06:29	12°♄33'08	8.59619 AU
min. Earth dist.	6308 Apr 12 13:17	23°♄34'42	8.20317 AU	direct	6314 Sep 09 06:55	9°♄08'34	
direct	6308 Jun 19 07:07	20°♄06'43		evening set	6314 Dec 23 06:37	16°♄47'41	
evening set	6308 Oct 02 21:16	28°♄12'23					
	6308 Oct 17 01:25	0°♄		conjunction	6315 Jan 09 10:26	18°♄53'21	1°24'15
				minimum elong	6315 Jan 09 10:28	18°♄53'22	1°24'18
conjunction	6308 Oct 20 18:20	0°♄28'23	1°47'12	max. Earth dist.	6315 Jan 09 07:03	18°♄52'19	10.63366 AU
minimum elong	6308 Oct 20 18:18	0°♄28'23	1°47'13	morning rise	6315 Jan 26 10:45	20°♄57'57	
max. Earth dist.	6308 Oct 20 15:55	0°♄27'37	10.22144 AU	retrograde	6315 May 06 16:10	28°♄17'49	
morning rise	6308 Nov 07 13:10	2°♄43'41		opposition	6315 Jul 14 02:39	24°♄58'07	1°31'06
retrograde	6309 Feb 18 09:24	10°♄37'57		min. Earth dist.	6315 Jul 14 04:27	24°♄57'46	8.67092 AU
opposition	6309 Apr 26 05:35	7°♄12'58	2°21'33	direct	6315 Sep 22 12:23	21°♄33'55	
min. Earth dist.	6309 Apr 26 07:18	7°♄12'37	8.24594 AU	evening set	6316 Jan 04 21:55	29°♄06'32	
direct	6309 Jul 03 10:11	3°♄44'43			6316 Jan 12 07:36	0°♄	
evening set	6309 Oct 17 08:08	11°♄48'55					
				conjunction	6316 Jan 21 23:30	1°♄10'38	1°02'40
conjunction	6309 Nov 04 02:28	14°♄03'26	1°59'11	minimum elong	6316 Jan 21 23:32	1°♄10'39	1°02'42
minimum elong	6309 Nov 04 02:26	14°♄03'26	1°59'13	max. Earth dist.	6316 Jan 21 21:29	1°♄10'01	10.70600 AU
max. Earth dist.	6309 Nov 03 23:23	14°♄02'27	10.27135 AU	morning rise	6316 Feb 07 21:50	3°♄13'47	
	6309 Nov 11 12:38	15°♄		retrograde	6316 May 18 02:29	10°♄29'25	
morning rise	6309 Nov 21 17:46	16°♄17'02		opposition	6316 Jul 25 22:07	7°♄10'05	1°02'42
retrograde	6310 Mar 03 21:55	24°♄05'44		min. Earth dist.	6316 Jul 25 22:54	7°♄09'56	8.73943 AU
opposition	6310 May 09 20:47	20°♄41'43	2°32'12	direct	6316 Oct 04 11:32	3°♄46'50	
min. Earth dist.	6310 May 09 22:45	20°♄41'20	8.30237 AU	evening set	6317 Jan 16 06:48	11°♄13'18	
direct	6310 Jul 17 12:32	17°♄13'44					
evening set	6310 Oct 31 13:11	25°♄14'57		conjunction	6317 Feb 02 06:19	13°♄16'00	0°38'33
				minimum elong	6317 Feb 02 06:20	13°♄16'00	0°38'34
conjunction	6310 Nov 18 04:30	27°♄27'46	2°04'31	max. Earth dist.	6317 Feb 02 05:34	13°♄15'46	10.77045 AU
minimum elong	6310 Nov 18 04:30	27°♄27'45	2°04'33		6317 Feb 16 14:51	15°♄	
max. Earth dist.	6310 Nov 18 01:11	27°♄26'43	10.33303 AU	morning rise	6317 Feb 19 02:56	15°♄17'53	
morning rise	6310 Dec 05 16:09	29°♄39'29		retrograde	6317 May 30 09:58	22°♄30'20	
	6310 Dec 08 10:44	0°♄		opposition	6317 Aug 07 14:44	19°♄11'14	0°31'58
retrograde	6311 Mar 17 06:27	7°♄22'14		min. Earth dist.	6317 Aug 07 15:04	19°♄11'10	8.79876 AU
opposition	6311 May 23 09:24	3°♄59'16	2°34'27	direct	6317 Oct 17 06:18	15°♄48'52	
min. Earth dist.	6311 May 23 11:29	3°♄58'51	8.36855 AU	evening set	6318 Jan 28 10:20	23°♄09'50	
direct	6311 Jul 31 11:03	0°♄31'48					
evening set	6311 Nov 14 11:04	8°♄28'44		conjunction	6318 Feb 14 07:46	25°♄11'18	0°13'04
				minimum elong	6318 Feb 14 07:46	25°♄11'18	0°13'05
conjunction	6311 Dec 01 23:20	10°♄39'45	2°03'10	behind sun begin	6318 Feb 14 03:28	25°♄10'01	
minimum elong	6311 Dec 01 23:21	10°♄39'45	2°03'13	behind sun end	6318 Feb 14 12:03	25°♄12'35	
max. Earth dist.	6311 Dec 01 20:14	10°♄38'46	10.40304 AU	max. Earth dist.	6318 Feb 14 07:28	25°♄11'13	10.82432 AU
morning rise	6311 Dec 19 07:30	12°♄49'33		morning rise	6318 Mar 03 03:02	27°♄12'08	
retrograde	6312 Mar 29 11:02	20°♄26'15			6318 Mar 28 02:26	0°♄	
opposition	6312 Jun 04 18:58	17°♄04'17	2°28'37	retrograde	6318 Jun 11 15:05	4°♄22'34	
min. Earth dist.	6312 Jun 04 21:29	17°♄03'47	8.44156 AU	opposition	6318 Aug 20 04:55	1°♄03'31	0°00'15
direct	6312 Aug 13 05:08	13°♄37'30		min. Earth dist.	6318 Aug 20 05:11	1°♄03'28	8.84658 AU
evening set	6312 Nov 27 01:30	21°♄29'08		desc. node	6318 Aug 23 05:02	0°♄49'59	
					6318 Sep 03 13:05	30°♄	
conjunction	6312 Dec 14 10:46	23°♄38'19	1°55'30	direct	6318 Oct 29 19:55	27°♄41'59	
minimum elong	6312 Dec 14 10:47	23°♄38'19	1°55'33		6318 Dec 22 22:10	0°♄	
max. Earth dist.	6312 Dec 14 07:26	23°♄37'17	10.47866 AU	evening set	6319 Feb 09 09:41	4°♄58'19	
morning rise	6312 Dec 31 15:53	25°♄46'17					
	6313 Feb 07 14:33	0°♄		conjunction	6319 Feb 26 05:14	6°♄58'46	-0°12'50
retrograde	6313 Apr 11 10:01	3°♄16'53		minimum elong	6319 Feb 26 05:13	6°♄58'46	0°12'48
	6313 Jun 17 03:48	30°♄		behind sun begin	6319 Feb 26 00:46	6°♄57'26	
opposition	6313 Jun 18 01:01	29°♄55'51	2°15'22	behind sun end	6319 Feb 26 09:40	7°♄00'05	

max. Earth dist.	6319 Feb 26 04:57	6° $\text{X}$ 58'41	10.86559 AU	retrograde	6325 Sep 04 04:32	26° $\text{S}$ 51'25	
morning rise	6319 Mar 14 23:32	8° $\text{X}$ 58'50		opposition	6325 Nov 13 16:50	23° $\text{S}$ 28'38	-2°32'44
retrograde	6319 Jun 23 17:58	16° $\text{X}$ 08'29		min. Earth dist.	6325 Nov 13 12:46	23° $\text{S}$ 29'24	8.76875 AU
opposition	6319 Sep 01 17:03	12° $\text{X}$ 49'17	-0°31'10	direct	6326 Jan 21 13:49	20° $\text{S}$ 09'21	
min. Earth dist.	6319 Sep 01 16:34	12° $\text{X}$ 49'23	8.88104 AU	evening set	6326 May 01 14:45	27° $\text{S}$ 23'13	
direct	6319 Nov 11 06:27	9° $\text{X}$ 28'31					
evening set	6320 Feb 21 05:55	16° $\text{X}$ 41'13		conjunction	6326 May 18 10:44	29° $\text{S}$ 25'14	-2°05'24
				minimum elong	6326 May 18 10:44	29° $\text{S}$ 25'14	2°05'25
conjunction	6320 Mar 09 00:03	18° $\text{X}$ 40'55	-0°37'55	max. Earth dist.	6326 May 18 15:15	29° $\text{S}$ 26'36	10.73610 AU
minimum elong	6320 Mar 09 00:01	18° $\text{X}$ 40'55	0°37'55		6326 May 23 05:04	0° $\text{II}$	
max. Earth dist.	6320 Mar 09 00:53	18° $\text{X}$ 41'11	10.89258 AU	morning rise	6326 Jun 04 10:04	1° $\text{II}$ 28'18	
morning rise	6320 Mar 25 17:35	20° $\text{X}$ 40'27		retrograde	6326 Sep 17 04:16	9° $\text{II}$ 01'27	
retrograde	6320 Jul 04 23:06	27° $\text{X}$ 50'34		opposition	6326 Nov 26 10:37	5° $\text{II}$ 37'47	-2°33'44
opposition	6320 Sep 13 03:55	24° $\text{X}$ 31'05	-1°01'06	min. Earth dist.	6326 Nov 26 06:37	5° $\text{II}$ 38'33	8.70403 AU
min. Earth dist.	6320 Sep 13 02:10	24° $\text{X}$ 31'24	8.90058 AU	direct	6327 Feb 02 21:00	2° $\text{II}$ 18'05	
direct	6320 Nov 22 15:03	21° $\text{X}$ 10'59		evening set	6327 May 14 00:13	9° $\text{II}$ 35'37	
evening set	6321 Mar 04 00:30	28° $\text{X}$ 21'07					
	6321 Mar 17 21:33	0° $\text{Y}$		conjunction	6327 May 30 23:00	11° $\text{II}$ 39'16	-2°03'15
				minimum elong	6327 May 30 23:01	11° $\text{II}$ 39'16	2°03'17
conjunction	6321 Mar 20 17:32	0° $\text{Y}$ 20'22	-1°01'23	max. Earth dist.	6327 May 31 02:48	11° $\text{II}$ 40'26	10.66728 AU
minimum elong	6321 Mar 20 17:31	0° $\text{Y}$ 20'22	1°01'22	morning rise	6327 Jun 17 01:43	13° $\text{II}$ 44'06	
max. Earth dist.	6321 Mar 20 19:48	0° $\text{Y}$ 21'03	10.90403 AU	retrograde	6327 Sep 30 06:04	21° $\text{II}$ 22'50	
morning rise	6321 Apr 06 10:31	2° $\text{Y}$ 19'39		opposition	6327 Dec 09 07:12	17° $\text{II}$ 58'19	-2°27'44
retrograde	6321 Jul 17 04:52	9° $\text{Y}$ 31'22		min. Earth dist.	6327 Dec 09 04:00	17° $\text{II}$ 58'56	8.63159 AU
opposition	6321 Sep 25 14:19	6° $\text{Y}$ 11'28	-1°28'26	direct	6328 Feb 15 08:49	14° $\text{II}$ 37'57	
min. Earth dist.	6321 Sep 25 11:36	6° $\text{Y}$ 11'58	8.90434 AU	evening set	6328 May 25 15:39	21° $\text{II}$ 59'59	
direct	6321 Dec 04 18:50	2° $\text{Y}$ 51'55					
evening set	6322 Mar 15 18:44	10° $\text{Y}$ 00'38		conjunction	6328 Jun 11 18:00	24° $\text{II}$ 05'32	-1°55'22
				minimum elong	6328 Jun 11 18:02	24° $\text{II}$ 05'33	1°55'23
conjunction	6322 Apr 01 11:00	11° $\text{Y}$ 59'43	-1°22'16	max. Earth dist.	6328 Jun 11 21:04	24° $\text{II}$ 06'29	10.59229 AU
minimum elong	6322 Apr 01 10:58	11° $\text{Y}$ 59'42	1°22'17	morning rise	6328 Jun 29 00:37	26° $\text{II}$ 12'23	
max. Earth dist.	6322 Apr 01 13:42	12° $\text{Y}$ 00'31	10.89957 AU		6328 Aug 01 21:56	0° $\text{S}$	
morning rise	6322 Apr 18 04:02	13° $\text{Y}$ 59'04		retrograde	6328 Oct 12 12:46	3° $\text{S}$ 56'38	
retrograde	6322 Jul 29 11:52	21° $\text{Y}$ 13'30		opposition	6328 Dec 21 07:06	0° $\text{S}$ 31'17	-2°14'40
opposition	6322 Oct 08 01:05	17° $\text{Y}$ 53'02	-1°52'09	min. Earth dist.	6328 Dec 21 04:42	0° $\text{S}$ 31'45	8.55429 AU
min. Earth dist.	6322 Oct 07 22:24	17° $\text{Y}$ 53'32	8.89230 AU		6328 Dec 28 00:08	30° $\text{R}$ $\text{II}$	
direct	6322 Dec 16 22:26	14° $\text{Y}$ 33'49		direct	6329 Feb 27 01:49	27° $\text{II}$ 10'05	
evening set	6323 Mar 27 13:40	21° $\text{Y}$ 42'15			6329 Apr 26 03:42	0° $\text{S}$	
				evening set	6329 Jun 07 13:34	4° $\text{S}$ 37'10	
conjunction	6323 Apr 13 05:41	23° $\text{Y}$ 41'31	-1°39'48				
minimum elong	6323 Apr 13 05:39	23° $\text{Y}$ 41'30	1°39'50	conjunction	6329 Jun 24 20:08	6° $\text{S}$ 44'53	-1°41'49
max. Earth dist.	6323 Apr 13 08:10	23° $\text{Y}$ 42'16	10.87947 AU	minimum elong	6329 Jun 24 20:11	6° $\text{S}$ 44'54	1°41'51
morning rise	6323 Apr 29 23:28	25° $\text{Y}$ 41'17		max. Earth dist.	6329 Jun 24 23:09	6° $\text{S}$ 45'49	10.51393 AU
	6323 Jun 09 16:04	0° $\text{S}$		morning rise	6329 Jul 12 06:54	8° $\text{S}$ 53'53	
retrograde	6323 Aug 10 22:15	2° $\text{S}$ 59'23		retrograde	6329 Oct 26 01:10	16° $\text{S}$ 43'25	
	6323 Oct 15 16:27	30° $\text{R}$ $\text{Y}$		opposition	6330 Jan 03 10:19	13° $\text{S}$ 17'16	-1°54'46
opposition	6323 Oct 20 12:41	29° $\text{Y}$ 38'14	-2°11'19	min. Earth dist.	6330 Jan 03 08:13	13° $\text{S}$ 17'41	8.47498 AU
min. Earth dist.	6323 Oct 20 10:03	29° $\text{Y}$ 38'44	8.86487 AU	direct	6330 Mar 11 22:08	9° $\text{S}$ 55'06	
direct	6323 Dec 29 02:22	26° $\text{Y}$ 19'11		evening set	6330 Jun 20 18:59	17° $\text{S}$ 27'50	
	6324 Mar 06 17:15	0° $\text{S}$					
evening set	6324 Apr 07 10:37	3° $\text{S}$ 28'25		conjunction	6330 Jul 08 06:03	19° $\text{S}$ 37'49	-1°22'59
				minimum elong	6330 Jul 08 06:06	19° $\text{S}$ 37'50	1°23'02
conjunction	6324 Apr 24 03:11	5° $\text{S}$ 28'14	-1°53'14	max. Earth dist.	6330 Jul 08 08:38	19° $\text{S}$ 38'38	10.43514 AU
minimum elong	6324 Apr 24 03:09	5° $\text{S}$ 28'13	1°53'16	morning rise	6330 Jul 25 21:00	21° $\text{S}$ 49'04	
max. Earth dist.	6324 Apr 24 06:11	5° $\text{S}$ 29'08	10.84446 AU	retrograde	6330 Nov 08 18:15	29° $\text{S}$ 43'22	
morning rise	6324 May 10 22:08	7° $\text{S}$ 28'45		opposition	6331 Jan 16 16:48	26° $\text{S}$ 16'34	-1°28'40
retrograde	6324 Aug 22 10:27	14° $\text{S}$ 51'19		min. Earth dist.	6331 Jan 16 15:02	26° $\text{S}$ 16'55	8.39711 AU
opposition	6324 Nov 01 01:38	11° $\text{S}$ 29'23	-2°25'04	direct	6331 Mar 24 22:52	22° $\text{S}$ 53'20	
min. Earth dist.	6324 Oct 31 22:29	11° $\text{S}$ 29'59	8.82311 AU		6331 Jun 29 22:56	0° $\text{Q}$	
direct	6325 Jan 09 06:58	8° $\text{S}$ 10'18		evening set	6331 Jul 04 08:06	0° $\text{Q}$ 32'10	
	6325 Apr 16 09:58	15° $\text{S}$					
evening set	6325 Apr 19 10:37	15° $\text{S}$ 21'24		conjunction	6331 Jul 21 23:29	2° $\text{Q}$ 44'25	-0°59'36
				minimum elong	6331 Jul 21 23:31	2° $\text{Q}$ 44'25	0°59'39
conjunction	6325 May 06 04:33	17° $\text{S}$ 22'08	-2°01'56	max. Earth dist.	6331 Jul 22 01:07	2° $\text{Q}$ 44'55	10.36005 AU
minimum elong	6325 May 06 04:32	17° $\text{S}$ 22'08	2°01'58	morning rise	6331 Aug 08 18:20	4° $\text{Q}$ 57'46	
max. Earth dist.	6325 May 06 08:49	17° $\text{S}$ 23'25	10.79598 AU	retrograde	6331 Nov 22 14:37	12° $\text{Q}$ 56'07	
morning rise	6325 May 23 01:16	19° $\text{S}$ 23'44		opposition	6332 Jan 30 02:47	9° $\text{Q}$ 28'50	-0°57'27

min. Earth dist.	6332 Jan 30 01:35	9° $\Omega$ 29'04	8.32546 AU	min. Earth dist.	6338 Apr 20 08:32	1° $\mathbb{M}$ 10'40	8.22204 AU
direct	6332 Apr 06 04:59	6° $\Omega$ 04'30			6338 May 05 04:02	30° $\mathbb{R}$ $\underline{\Omega}$	
evening set	6332 Jul 17 04:39	13° $\Omega$ 49'30		direct	6338 Jun 27 07:16	27° $\underline{\Omega}$ 42'21	
	6332 Jul 26 14:05	15° $\Omega$			6338 Aug 18 10:40	0° $\mathbb{M}$	
				evening set	6338 Oct 11 01:10	5° $\mathbb{M}$ 47'01	
conjunction	6332 Aug 03 23:46	16° $\Omega$ 03'45	-0°32'44	conjunction	6338 Oct 28 20:55	8° $\mathbb{M}$ 02'15	1°54'30
minimum elong	6332 Aug 03 23:48	16° $\Omega$ 03'45	0°32'46	minimum elong	6338 Oct 28 20:53	8° $\mathbb{M}$ 02'14	1°54'32
max. Earth dist.	6332 Aug 04 00:03	16° $\Omega$ 03'50	10.29356 AU	max. Earth dist.	6338 Oct 28 17:55	8° $\mathbb{M}$ 01'18	10.24185 AU
morning rise	6332 Aug 21 21:53	18° $\Omega$ 18'56		morning rise	6338 Nov 15 13:46	10° $\mathbb{M}$ 16'39	
retrograde	6332 Dec 05 14:09	26° $\Omega$ 20'19			6338 Dec 27 11:20	15° $\mathbb{M}$	
opposition	6333 Feb 11 15:53	22° $\Omega$ 52'43	-0°22'39	retrograde	6339 Feb 26 01:10	18° $\mathbb{M}$ 07'50	
min. Earth dist.	6333 Feb 11 15:43	22° $\Omega$ 52'45	8.26483 AU		6339 Apr 30 09:53	15° $\mathbb{R}$ $\mathbb{M}$	
direct	6333 Apr 19 15:57	19° $\Omega$ 27'16		opposition	6339 May 03 22:37	14° $\mathbb{M}$ 42'54	2°28'23
evening set	6333 Jul 31 08:12	27° $\Omega$ 18'11		min. Earth dist.	6339 May 04 01:10	14° $\mathbb{M}$ 42'23	8.26816 AU
				direct	6339 Jul 11 09:24	11° $\mathbb{M}$ 14'17	
conjunction	6333 Aug 18 06:18	29° $\Omega$ 34'03	-0°03'48		6339 Sep 17 19:33	15° $\mathbb{M}$	
minimum elong	6333 Aug 18 06:17	29° $\Omega$ 34'03	0°03'50	evening set	6339 Oct 25 08:35	19° $\mathbb{M}$ 16'55	
behind sun begin	6333 Aug 17 23:04	29° $\Omega$ 31'46		conjunction	6339 Nov 12 01:18	21° $\mathbb{M}$ 30'35	2°02'55
behind sun end	6333 Aug 18 13:31	29° $\Omega$ 36'19		minimum elong	6339 Nov 12 01:17	21° $\mathbb{M}$ 30'34	2°02'58
max. Earth dist.	6333 Aug 18 05:16	29° $\Omega$ 33'45	10.24005 AU	max. Earth dist.	6339 Nov 11 21:38	21° $\mathbb{M}$ 29'25	10.29528 AU
	6333 Aug 21 15:54	0° $\mathbb{M}$		morning rise	6339 Nov 29 14:40	23° $\mathbb{M}$ 43'14	
morning rise	6333 Sep 05 06:39	1° $\mathbb{M}$ 50'36			6340 Jan 29 16:24	0° $\mathbb{X}$	
asc. node	6333 Oct 05 04:24	5° $\mathbb{M}$ 20'58		retrograde	6340 Mar 10 10:54	1° $\mathbb{X}$ 28'47	
retrograde	6333 Dec 19 15:08	9° $\mathbb{M}$ 53'42			6340 Apr 21 00:25	30° $\mathbb{R}$ $\mathbb{M}$	
opposition	6334 Feb 25 07:21	6° $\mathbb{M}$ 26'01	0°13'52	opposition	6340 May 16 12:11	28° $\mathbb{M}$ 04'51	2°34'31
min. Earth dist.	6334 Feb 25 08:10	6° $\mathbb{M}$ 25'51	8.21914 AU	min. Earth dist.	6340 May 16 15:06	28° $\mathbb{M}$ 04'16	8.32845 AU
direct	6334 May 03 08:09	2° $\mathbb{M}$ 59'31		direct	6340 Jul 24 09:14	24° $\mathbb{M}$ 36'35	
evening set	6334 Aug 14 17:32	10° $\mathbb{M}$ 55'46			6340 Oct 16 11:59	0° $\mathbb{X}$	
				evening set	6340 Nov 07 09:29	2° $\mathbb{X}$ 35'37	
conjunction	6334 Sep 01 17:31	13° $\mathbb{M}$ 12'42	0°25'45	conjunction	6340 Nov 24 23:07	4° $\mathbb{X}$ 47'31	2°04'39
minimum elong	6334 Sep 01 17:30	13° $\mathbb{M}$ 12'42	0°25'44	minimum elong	6340 Nov 24 23:07	4° $\mathbb{X}$ 47'31	2°04'42
max. Earth dist.	6334 Sep 01 15:44	13° $\mathbb{M}$ 12'08	10.20276 AU	max. Earth dist.	6340 Nov 24 19:06	4° $\mathbb{X}$ 46'15	10.36142 AU
morning rise	6334 Sep 19 18:46	15° $\mathbb{M}$ 30'03		morning rise	6340 Dec 12 09:06	6° $\mathbb{X}$ 58'16	
retrograde	6335 Jan 02 15:32	23° $\mathbb{M}$ 33'28		retrograde	6341 Mar 23 16:20	14° $\mathbb{X}$ 37'45	
opposition	6335 Mar 11 00:37	20° $\mathbb{M}$ 05'56	0°49'55	opposition	6341 May 29 22:44	11° $\mathbb{X}$ 14'50	2°32'23
min. Earth dist.	6335 Mar 11 01:52	20° $\mathbb{M}$ 05'41	8.19105 AU	min. Earth dist.	6341 May 30 01:17	11° $\mathbb{X}$ 14'20	8.39946 AU
direct	6335 May 17 05:45	16° $\mathbb{M}$ 38'33		direct	6341 Aug 07 05:44	7° $\mathbb{X}$ 47'14	
evening set	6335 Aug 29 06:48	24° $\mathbb{M}$ 39'07		evening set	6341 Nov 21 03:06	15° $\mathbb{X}$ 41'22	
				conjunction	6341 Dec 08 13:44	17° $\mathbb{X}$ 51'25	1°59'51
conjunction	6335 Sep 16 07:25	26° $\mathbb{M}$ 56'31	0°53'54	minimum elong	6341 Dec 08 13:45	17° $\mathbb{X}$ 51'25	1°59'54
minimum elong	6335 Sep 16 07:22	26° $\mathbb{M}$ 56'30	0°53'54	max. Earth dist.	6341 Dec 08 10:13	17° $\mathbb{X}$ 50'19	10.43655 AU
max. Earth dist.	6335 Sep 16 05:21	26° $\mathbb{M}$ 55'51	10.18382 AU	morning rise	6341 Dec 25 20:27	20° $\mathbb{X}$ 00'17	
morning rise	6335 Oct 04 08:06	29° $\mathbb{M}$ 13'57		retrograde	6342 Apr 05 16:42	27° $\mathbb{X}$ 33'34	
	6335 Oct 10 12:27	0° $\underline{\Omega}$		opposition	6342 Jun 12 05:54	24° $\mathbb{X}$ 11'41	2°22'28
retrograde	6336 Jan 16 15:16	7° $\underline{\Omega}$ 16'19		min. Earth dist.	6342 Jun 12 07:41	24° $\mathbb{X}$ 11'20	8.47733 AU
opposition	6336 Mar 23 18:51	3° $\underline{\Omega}$ 49'08	1°23'17	direct	6342 Aug 20 22:13	20° $\mathbb{X}$ 44'57	
min. Earth dist.	6336 Mar 23 20:05	3° $\underline{\Omega}$ 48'53	8.18211 AU	evening set	6342 Dec 04 12:48	28° $\mathbb{X}$ 33'15	
direct	6336 May 30 05:07	0° $\underline{\Omega}$ 21'05			6342 Dec 16 07:02	0° $\mathbb{Z}$	
evening set	6336 Sep 11 22:02	8° $\underline{\Omega}$ 24'38		conjunction	6342 Dec 21 20:39	0° $\mathbb{Z}$ 41'29	1°49'06
				minimum elong	6342 Dec 21 20:41	0° $\mathbb{Z}$ 41'29	1°49'09
conjunction	6336 Sep 29 22:03	10° $\underline{\Omega}$ 41'51	1°19'02	max. Earth dist.	6342 Dec 21 18:17	0° $\mathbb{Z}$ 40'44	10.51673 AU
minimum elong	6336 Sep 29 22:00	10° $\underline{\Omega}$ 41'50	1°19'03	morning rise	6343 Jan 08 00:24	2° $\mathbb{Z}$ 48'30	
max. Earth dist.	6336 Sep 29 20:00	10° $\underline{\Omega}$ 41'12	10.18436 AU	retrograde	6343 Apr 18 12:42	10° $\mathbb{Z}$ 15'51	
morning rise	6336 Oct 17 20:57	12° $\underline{\Omega}$ 58'47		opposition	6343 Jun 25 09:41	6° $\mathbb{Z}$ 54'57	2°05'42
retrograde	6337 Jan 29 14:12	20° $\underline{\Omega}$ 58'39		min. Earth dist.	6343 Jun 25 10:59	6° $\mathbb{Z}$ 54'42	8.55819 AU
opposition	6337 Apr 06 13:06	17° $\underline{\Omega}$ 32'02	1°51'52	direct	6343 Sep 03 10:07	3° $\mathbb{Z}$ 29'14	
min. Earth dist.	6337 Apr 06 14:23	17° $\underline{\Omega}$ 31'47	8.19274 AU	evening set	6343 Dec 17 14:30	11° $\mathbb{Z}$ 11'10	
direct	6337 Jun 13 05:43	14° $\underline{\Omega}$ 03'31		conjunction	6344 Jan 03 19:43	13° $\mathbb{Z}$ 17'37	1°33'13
evening set	6337 Sep 26 12:55	22° $\underline{\Omega}$ 08'29		minimum elong	6344 Jan 03 19:45	13° $\mathbb{Z}$ 17'38	1°33'15
				max. Earth dist.	6344 Jan 03 18:11	13° $\mathbb{Z}$ 17'08	10.59793 AU
conjunction	6337 Oct 14 11:15	24° $\underline{\Omega}$ 24'58	1°39'37	morning rise	6344 Jan 20 20:58	15° $\mathbb{Z}$ 22'55	
minimum elong	6337 Oct 14 11:12	24° $\underline{\Omega}$ 24'57	1°39'39				
max. Earth dist.	6337 Oct 14 08:56	24° $\underline{\Omega}$ 24'13	10.20416 AU				
morning rise	6337 Nov 01 07:26	26° $\underline{\Omega}$ 40'50					
	6337 Nov 29 08:44	0° $\mathbb{M}$					
retrograde	6338 Feb 12 10:17	4° $\mathbb{M}$ 36'55					
opposition	6338 Apr 20 06:41	1° $\mathbb{M}$ 11'03	2°13'58				

retrograde	6344 Apr 30 05:00	22° $\text{♁}$ 44'52		minimum elong	6350 Mar 15 14:29	25° $\text{♁}$ 07'43	0°50'32
opposition	6344 Jul 07 09:57	19° $\text{♁}$ 24'50	1°43'14	max. Earth dist.	6350 Mar 15 15:07	25° $\text{♁}$ 07'54	10.91498 AU
min. Earth dist.	6344 Jul 07 11:20	19° $\text{♁}$ 24'34	8.63809 AU	morning rise	6350 Apr 01 07:42	27° $\text{♁}$ 06'58	
direct	6344 Sep 15 15:42	16° $\text{♁}$ 00'12			6350 Apr 27 08:22	0° $\text{♁}$	
evening set	6344 Dec 29 09:00	23° $\text{♁}$ 35'38		retrograde	6350 Jul 11 19:39	4° $\text{♁}$ 17'26	
				opposition	6350 Sep 20 03:09	0° $\text{♁}$ 58'18	-1°15'51
conjunction	6345 Jan 15 11:41	25° $\text{♁}$ 40'26	1°13'12	min. Earth dist.	6350 Sep 20 02:19	0° $\text{♁}$ 58'28	8.91813 AU
minimum elong	6345 Jan 15 11:43	25° $\text{♁}$ 40'26	1°13'14		6350 Oct 03 08:46	30° $\text{♁}$	
max. Earth dist.	6345 Jan 15 10:05	25° $\text{♁}$ 39'57	10.67624 AU	direct	6350 Nov 29 09:35	27° $\text{♁}$ 38'59	
morning rise	6345 Feb 01 10:53	27° $\text{♁}$ 44'12			6351 Jan 22 21:39	0° $\text{♁}$	
	6345 Feb 21 01:51	0° $\text{♁}$		evening set	6351 Mar 10 15:36	4° $\text{♁}$ 48'02	
retrograde	6345 May 12 15:39	5° $\text{♁}$ 01'27					
opposition	6345 Jul 20 06:47	1° $\text{♁}$ 42'07	1°16'25	conjunction	6351 Mar 27 08:02	6° $\text{♁}$ 47'02	-1°12'44
min. Earth dist.	6345 Jul 20 08:09	1° $\text{♁}$ 41'51	8.71335 AU	minimum elong	6351 Mar 27 08:00	6° $\text{♁}$ 47'02	1°12'44
	6345 Aug 12 16:51	30° $\text{♁}$		max. Earth dist.	6351 Mar 27 08:55	6° $\text{♁}$ 47'18	10.91593 AU
direct	6345 Sep 28 17:12	28° $\text{♁}$ 18'36		morning rise	6351 Apr 13 01:03	8° $\text{♁}$ 46'13	
	6345 Nov 13 16:03	0° $\text{♁}$		retrograde	6351 Jul 24 01:43	15° $\text{♁}$ 59'01	
evening set	6346 Jan 10 20:49	5° $\text{♁}$ 47'46		opposition	6351 Oct 02 13:39	12° $\text{♁}$ 39'18	-1°41'23
				min. Earth dist.	6351 Oct 02 12:07	12° $\text{♁}$ 39'35	8.91041 AU
conjunction	6346 Jan 27 21:09	7° $\text{♁}$ 51'01	0°50'09	direct	6351 Dec 11 15:16	9° $\text{♁}$ 20'19	
minimum elong	6346 Jan 27 21:10	7° $\text{♁}$ 51'02	0°50'10	evening set	6352 Mar 21 10:15	16° $\text{♁}$ 28'40	
max. Earth dist.	6346 Jan 27 19:39	7° $\text{♁}$ 50'34	10.74817 AU				
morning rise	6346 Feb 13 18:39	9° $\text{♁}$ 53'26		conjunction	6352 Apr 07 02:24	18° $\text{♁}$ 27'45	-1°31'56
	6346 Apr 04 08:25	15° $\text{♁}$		minimum elong	6352 Apr 07 02:22	18° $\text{♁}$ 27'45	1°31'58
retrograde	6346 May 24 23:17	17° $\text{♁}$ 07'02		max. Earth dist.	6352 Apr 07 04:21	18° $\text{♁}$ 28'20	10.89915 AU
	6346 Jul 16 19:51	15° $\text{♁}$		morning rise	6352 Apr 23 19:39	20° $\text{♁}$ 27'13	
opposition	6346 Aug 02 00:40	13° $\text{♁}$ 48'11	0°46'38	retrograde	6352 Aug 04 12:01	27° $\text{♁}$ 43'23	
min. Earth dist.	6346 Aug 02 01:07	13° $\text{♁}$ 48'05	8.78070 AU	opposition	6352 Oct 14 00:54	24° $\text{♁}$ 22'54	-2°02'48
direct	6346 Oct 11 15:32	10° $\text{♁}$ 25'44		min. Earth dist.	6352 Oct 13 22:39	24° $\text{♁}$ 23'19	8.88549 AU
	6346 Dec 29 00:19	15° $\text{♁}$		direct	6352 Dec 22 19:08	21° $\text{♁}$ 04'03	
evening set	6347 Jan 23 02:37	17° $\text{♁}$ 49'04		evening set	6353 Apr 02 06:22	28° $\text{♁}$ 12'48	
					6353 Apr 17 05:46	0° $\text{♁}$	
conjunction	6347 Feb 09 00:57	19° $\text{♁}$ 51'00	0°25'10				
minimum elong	6347 Feb 09 00:57	19° $\text{♁}$ 51'00	0°25'11	conjunction	6353 Apr 18 22:38	0° $\text{♁}$ 12'17	-1°47'24
max. Earth dist.	6347 Feb 09 00:38	19° $\text{♁}$ 50'55	10.81057 AU	minimum elong	6353 Apr 18 22:37	0° $\text{♁}$ 12'17	1°47'26
morning rise	6347 Feb 25 20:55	21° $\text{♁}$ 52'14		max. Earth dist.	6353 Apr 19 00:46	0° $\text{♁}$ 12'56	10.86594 AU
retrograde	6347 Jun 06 06:31	29° $\text{♁}$ 03'18		morning rise	6353 May 05 16:47	2° $\text{♁}$ 12'23	
opposition	6347 Aug 14 15:52	25° $\text{♁}$ 44'41	0°15'14	retrograde	6353 Aug 16 23:36	9° $\text{♁}$ 32'48	
min. Earth dist.	6347 Aug 14 15:06	25° $\text{♁}$ 44'49	8.83720 AU	opposition	6353 Oct 26 13:33	6° $\text{♁}$ 11'24	-2°19'14
direct	6347 Oct 24 07:24	22° $\text{♁}$ 23'16		min. Earth dist.	6353 Oct 26 11:19	6° $\text{♁}$ 11'49	8.84495 AU
evening set	6348 Feb 04 03:54	29° $\text{♁}$ 41'28		direct	6354 Jan 03 22:15	2° $\text{♁}$ 52'25	
	6348 Feb 06 18:41	0° $\text{♁}$		evening set	6354 Apr 14 05:05	10° $\text{♁}$ 02'39	
desc. node	6348 Feb 11 16:33	0° $\text{♁}$ 35'04					
				conjunction	6354 Apr 30 22:10	12° $\text{♁}$ 02'55	-1°58'24
conjunction	6348 Feb 21 00:27	1° $\text{♁}$ 42'17	-0°00'40	minimum elong	6354 Apr 30 22:09	12° $\text{♁}$ 02'55	1°58'27
minimum elong	6348 Feb 21 00:26	1° $\text{♁}$ 42'17	0°00'38	max. Earth dist.	6354 Apr 30 23:53	12° $\text{♁}$ 03'26	10.81816 AU
behind sun begin	6348 Feb 20 17:26	1° $\text{♁}$ 40'12		morning rise	6354 May 17 18:01	14° $\text{♁}$ 04'01	
behind sun end	6348 Feb 21 07:26	1° $\text{♁}$ 44'22			6354 May 25 17:49	15° $\text{♁}$	
max. Earth dist.	6348 Feb 21 01:27	1° $\text{♁}$ 42'32	10.86067 AU	retrograde	6354 Aug 29 14:50	21° $\text{♁}$ 29'22	
morning rise	6348 Mar 08 19:03	3° $\text{♁}$ 42'35		opposition	6354 Nov 08 03:58	18° $\text{♁}$ 06'56	-2°29'53
retrograde	6348 Jun 17 11:10	10° $\text{♁}$ 52'12		min. Earth dist.	6354 Nov 08 02:09	18° $\text{♁}$ 07'16	8.79081 AU
opposition	6348 Aug 26 04:46	7° $\text{♁}$ 33'37	-0°16'27		6354 Dec 31 14:25	15° $\text{♁}$	
min. Earth dist.	6348 Aug 26 03:32	7° $\text{♁}$ 33'51	8.88032 AU	direct	6355 Jan 16 04:37	14° $\text{♁}$ 47'35	
direct	6348 Nov 04 18:50	4° $\text{♁}$ 13'05			6355 Jan 31 16:19	15° $\text{♁}$	
evening set	6349 Feb 15 01:45	11° $\text{♁}$ 27'08		evening set	6355 Apr 26 07:18	22° $\text{♁}$ 00'18	
conjunction	6349 Mar 03 20:33	13° $\text{♁}$ 27'03	-0°26'13	conjunction	6355 May 13 02:10	24° $\text{♁}$ 01'44	-2°04'24
minimum elong	6349 Mar 03 20:32	13° $\text{♁}$ 27'02	0°26'12	minimum elong	6355 May 13 02:09	24° $\text{♁}$ 01'44	2°04'27
max. Earth dist.	6349 Mar 03 21:39	13° $\text{♁}$ 27'22	10.89613 AU	max. Earth dist.	6355 May 13 04:10	24° $\text{♁}$ 02'21	10.75794 AU
morning rise	6349 Mar 20 14:15	15° $\text{♁}$ 26'40		morning rise	6355 May 30 00:21	26° $\text{♁}$ 04'10	
retrograde	6349 Jun 29 15:50	22° $\text{♁}$ 36'04			6355 Jul 04 23:22	0° $\text{♁}$	
opposition	6349 Sep 07 16:22	19° $\text{♁}$ 17'20	-0°47'12	retrograde	6355 Sep 11 10:38	3° $\text{♁}$ 34'58	
min. Earth dist.	6349 Sep 07 15:28	19° $\text{♁}$ 17'30	8.90789 AU	opposition	6355 Nov 20 20:39	0° $\text{♁}$ 11'27	-2°34'07
direct	6349 Nov 17 03:40	15° $\text{♁}$ 57'29		min. Earth dist.	6355 Nov 20 18:38	0° $\text{♁}$ 11'50	8.72526 AU
evening set	6350 Feb 26 21:11	23° $\text{♁}$ 08'25			6355 Nov 23 08:41	30° $\text{♁}$	
				direct	6356 Jan 28 12:28	26° $\text{♁}$ 51'34	
conjunction	6350 Mar 15 14:30	25° $\text{♁}$ 07'43	-0°50'32		6356 Mar 30 15:35	0° $\text{♁}$	

evening set	6356 May 07 14:10	4° $\Pi$ 07'42	conjunction	6362 Aug 12 01:03	23° $\Omega$ 35'27	-0°17'17
			minimum elong	6362 Aug 12 01:03	23° $\Omega$ 35'27	0°17'19
conjunction	6356 May 24 11:38	6° $\Pi$ 10'40 -2°04'57	max. Earth dist.	6362 Aug 12 02:28	23° $\Omega$ 35'53	10.24533 AU
minimum elong	6356 May 24 11:39	6° $\Pi$ 10'40 2°04'58	morning rise	6362 Aug 30 00:31	25° $\Omega$ 51'41	
max. Earth dist.	6356 May 24 14:36	6° $\Pi$ 11'34 10.68766 AU		6362 Oct 04 23:53	0° $\mathbb{N}$	
morning rise	6356 Jun 10 12:42	8° $\Pi$ 14'46	retrograde	6362 Dec 13 12:57	3° $\mathbb{N}$ 55'02	
retrograde	6356 Sep 23 10:39	15° $\Pi$ 51'20	opposition	6363 Feb 19 09:51	0° $\mathbb{N}$ 26'56	-0°03'02
opposition	6356 Dec 02 16:02	12° $\Pi$ 26'44 -2°31'28	min. Earth dist.	6363 Feb 19 08:42	0° $\mathbb{N}$ 27'10	8.22223 AU
min. Earth dist.	6356 Dec 02 13:22	12° $\Pi$ 27'15 8.65097 AU		6363 Feb 24 22:53	30° $\mathbb{R}$ $\Omega$	
direct	6357 Feb 08 23:29	9° $\Pi$ 06'10	asc. node	6363 Mar 22 15:41	28° $\Omega$ 08'19	
evening set	6357 May 20 02:44	16° $\Pi$ 26'33	direct	6363 Apr 27 10:06	27° $\Omega$ 00'34	
				6363 Jun 25 13:59	0° $\mathbb{N}$	
conjunction	6357 Jun 06 03:30	18° $\Pi$ 31'23 -1°59'46	evening set	6363 Aug 08 11:20	4° $\mathbb{N}$ 55'16	
minimum elong	6357 Jun 06 03:32	18° $\Pi$ 31'23 1°59'48				
max. Earth dist.	6357 Jun 06 06:53	18° $\Pi$ 32'25 10.61034 AU	conjunction	6363 Aug 26 10:47	7° $\mathbb{N}$ 12'01	0°12'16
morning rise	6357 Jun 23 08:08	20° $\Pi$ 37'26	minimum elong	6363 Aug 26 10:46	7° $\mathbb{N}$ 12'01	0°12'14
retrograde	6357 Oct 06 17:15	28° $\Pi$ 19'49	behind sun begin	6363 Aug 26 05:59	7° $\mathbb{N}$ 10'30	
opposition	6357 Dec 15 14:39	24° $\Pi$ 54'13 -2°21'42	behind sun end	6363 Aug 26 15:33	7° $\mathbb{N}$ 13'31	
min. Earth dist.	6357 Dec 15 11:44	24° $\Pi$ 54'47 8.57118 AU	max. Earth dist.	6363 Aug 26 11:27	7° $\mathbb{N}$ 12'14	10.20350 AU
direct	6358 Feb 21 13:13	21° $\Pi$ 32'49	morning rise	6363 Sep 13 11:41	9° $\mathbb{N}$ 29'17	
evening set	6358 Jun 01 21:44	28° $\Pi$ 58'09	retrograde	6363 Dec 27 15:16	17° $\mathbb{N}$ 33'37	
	6358 Jun 10 07:52	0° $\mathfrak{E}$	opposition	6364 Mar 04 03:02	14° $\mathbb{N}$ 05'44	0°33'34
			min. Earth dist.	6364 Mar 04 02:30	14° $\mathbb{N}$ 05'51	8.18925 AU
conjunction	6358 Jun 19 02:23	1° $\mathfrak{E}$ 05'06 -1°48'49	direct	6364 May 10 04:56	10° $\mathbb{N}$ 38'37	
minimum elong	6358 Jun 19 02:26	1° $\mathfrak{E}$ 05'07 1°48'52	evening set	6364 Aug 21 23:34	18° $\mathbb{N}$ 38'06	
max. Earth dist.	6358 Jun 19 05:05	1° $\mathfrak{E}$ 05'56 10.52938 AU				
morning rise	6358 Jun 06 11:13	3° $\mathfrak{E}$ 13'20	conjunction	6364 Sep 09 00:06	20° $\mathbb{N}$ 55'34	0°41'15
retrograde	6358 Oct 20 04:18	11° $\mathfrak{E}$ 01'19	minimum elong	6364 Sep 09 00:05	20° $\mathbb{N}$ 55'33	0°41'14
opposition	6358 Dec 28 16:39	7° $\mathfrak{E}$ 34'50 -2°04'55	max. Earth dist.	6364 Sep 08 23:48	20° $\mathbb{N}$ 55'28	10.17967 AU
min. Earth dist.	6358 Dec 28 14:21	7° $\mathfrak{E}$ 35'17 8.48941 AU	morning rise	6364 Sep 27 01:12	23° $\mathbb{N}$ 13'14	
direct	6359 Mar 06 06:37	4° $\mathfrak{E}$ 12'29		6364 Dec 02 15:42	0° $\mathfrak{A}$	
evening set	6359 Jun 15 00:00	11° $\mathfrak{E}$ 43'24	retrograde	6365 Jan 09 17:00	1° $\mathfrak{A}$ 17'07	
				6365 Feb 17 01:56	30° $\mathbb{R}$ $\mathbb{N}$	
conjunction	6359 Jul 02 08:55	13° $\mathfrak{E}$ 52'36 -1°32'22	opposition	6365 Mar 17 21:43	27° $\mathbb{N}$ 49'43	1°08'28
minimum elong	6359 Jul 02 08:57	13° $\mathfrak{E}$ 52'37 1°32'25	min. Earth dist.	6365 Mar 17 22:03	27° $\mathbb{N}$ 49'39	8.17532 AU
max. Earth dist.	6359 Jul 02 10:39	13° $\mathfrak{E}$ 53'08 10.44841 AU	direct	6365 May 24 03:14	24° $\mathbb{N}$ 21'59	
morning rise	6359 Jul 19 22:06	16° $\mathfrak{E}$ 03'06		6365 Aug 16 15:30	0° $\mathfrak{A}$	
retrograde	6359 Nov 02 18:34	23° $\mathfrak{E}$ 56'11	evening set	6365 Sep 05 15:05	2° $\mathfrak{A}$ 25'05	
opposition	6360 Jan 10 22:03	20° $\mathfrak{E}$ 29'00 -1°41'34				
min. Earth dist.	6360 Jan 10 20:37	20° $\mathfrak{E}$ 29'17 8.40957 AU	conjunction	6365 Sep 23 15:28	4° $\mathfrak{A}$ 42'38	1°08'00
direct	6360 Mar 18 06:13	17° $\mathfrak{E}$ 05'36	minimum elong	6365 Sep 23 15:26	4° $\mathfrak{A}$ 42'37	1°08'00
evening set	6360 Jun 27 09:46	24° $\mathfrak{E}$ 42'32	max. Earth dist.	6365 Sep 23 14:04	4° $\mathfrak{A}$ 42'11	10.17536 AU
			morning rise	6365 Oct 11 15:27	7° $\mathfrak{A}$ 00'03	
conjunction	6360 Jul 14 23:08	26° $\mathfrak{E}$ 54'00 -1°10'58	retrograde	6366 Jan 23 17:30	15° $\mathfrak{A}$ 01'57	
minimum elong	6360 Jul 14 23:10	26° $\mathfrak{E}$ 54'01 1°11'01	opposition	6366 Mar 31 16:50	11° $\mathfrak{A}$ 35'15	1°39'30
max. Earth dist.	6360 Jul 15 00:34	26° $\mathfrak{E}$ 54'28 10.37141 AU	min. Earth dist.	6366 Mar 31 17:59	11° $\mathfrak{A}$ 35'01	8.18130 AU
morning rise	6360 Aug 01 16:27	29° $\mathfrak{E}$ 06'42	direct	6366 Jun 07 04:39	8° $\mathfrak{A}$ 07'07	
	6360 Aug 08 23:37	0° $\Omega$	evening set	6366 Sep 20 07:24	16° $\mathfrak{A}$ 12'20	
retrograde	6360 Nov 15 12:34	7° $\Omega$ 04'15				
opposition	6361 Jan 23 06:59	3° $\Omega$ 36'31 -1°12'30	conjunction	6366 Oct 08 06:29	18° $\mathfrak{A}$ 29'19	1°30'50
min. Earth dist.	6361 Jan 23 05:50	3° $\Omega$ 36'44 8.33581 AU	minimum elong	6366 Oct 08 06:26	18° $\mathfrak{A}$ 29'18	1°30'51
direct	6361 Mar 31 11:29	0° $\Omega$ 12'04	max. Earth dist.	6366 Oct 08 04:17	18° $\mathfrak{A}$ 28'37	10.19079 AU
evening set	6361 Jul 11 03:04	7° $\Omega$ 55'06	morning rise	6366 Oct 26 04:11	20° $\mathfrak{A}$ 45'52	
			retrograde	6367 Feb 06 14:45	28° $\mathfrak{A}$ 44'23	
conjunction	6361 Jul 28 20:39	10° $\Omega$ 08'44 -0°45'31	opposition	6367 Apr 14 11:39	25° $\mathfrak{A}$ 18'30	2°04'43
minimum elong	6361 Jul 28 20:41	10° $\Omega$ 08'44 0°45'33	min. Earth dist.	6367 Apr 14 12:59	25° $\mathfrak{A}$ 18'14	8.20663 AU
max. Earth dist.	6361 Jul 28 22:12	10° $\Omega$ 09'13 10.30245 AU	direct	6367 Jun 21 08:00	21° $\mathfrak{A}$ 50'14	
morning rise	6361 Aug 15 17:32	12° $\Omega$ 23'23	evening set	6367 Oct 04 21:46	29° $\mathfrak{A}$ 55'43	
	6361 Sep 06 16:15	15° $\Omega$		6367 Oct 05 11:28	0° $\mathbb{M}$	
retrograde	6361 Nov 29 11:34	20° $\Omega$ 24'27				
opposition	6362 Feb 05 19:04	16° $\Omega$ 56'23 -0°39'05	conjunction	6367 Oct 22 18:42	2° $\mathbb{M}$ 11'37	1°48'25
min. Earth dist.	6362 Feb 05 17:52	16° $\Omega$ 56'38 8.27213 AU	minimum elong	6367 Oct 22 18:39	2° $\mathbb{M}$ 11'36	1°48'27
	6362 Mar 03 08:31	15° $\mathbb{R}$ $\Omega$	max. Earth dist.	6367 Oct 22 16:27	2° $\mathbb{M}$ 10'54	10.22487 AU
direct	6362 Apr 13 20:19	13° $\Omega$ 30'57	morning rise	6367 Nov 09 13:16	4° $\mathbb{M}$ 26'48	
	6362 May 24 15:55	15° $\Omega$	retrograde	6368 Feb 20 07:53	12° $\mathbb{M}$ 20'44	
evening set	6362 Jul 25 03:58	21° $\Omega$ 20'01	opposition	6368 Apr 27 05:04	8° $\mathbb{M}$ 55'46	2°22'42
			min. Earth dist.	6368 Apr 27 06:16	8° $\mathbb{M}$ 55'32	8.24944 AU

direct	6368 Jul 04 11:21	5° <del>ℓ</del> 27'34		evening set	6375 Jan 05 20:12	0° <del>≈</del> 45'47	
evening set	6368 Oct 18 08:14	13° <del>ℓ</del> 31'32					
	6368 Oct 30 01:44	15° <del>ℓ</del>		conjunction	6375 Jan 22 21:49	2° <del>≈</del> 49'55	1°00'20
				minimum elong	6375 Jan 22 21:51	2° <del>≈</del> 49'55	1°00'22
conjunction	6368 Nov 05 02:27	15° <del>ℓ</del> 45'57	1°59'48	max. Earth dist.	6375 Jan 22 20:05	2° <del>≈</del> 49'23	10.70507 AU
minimum elong	6368 Nov 05 02:26	15° <del>ℓ</del> 45'56	1°59'50	morning rise	6375 Feb 08 20:01	4° <del>≈</del> 53'05	
max. Earth dist.	6368 Nov 05 00:12	15° <del>ℓ</del> 45'14	10.27505 AU	retrograde	6375 May 20 01:44	12° <del>≈</del> 08'56	
morning rise	6368 Nov 22 17:27	17° <del>ℓ</del> 59'25		opposition	6375 Jul 27 21:09	8° <del>≈</del> 49'40	0°59'42
retrograde	6369 Mar 04 21:12	25° <del>ℓ</del> 47'48		min. Earth dist.	6375 Jul 27 22:24	8° <del>≈</del> 49'25	8.73757 AU
opposition	6369 May 10 20:08	22° <del>ℓ</del> 23'49	2°32'34	direct	6375 Oct 06 10:12	5° <del>≈</del> 26'28	
min. Earth dist.	6369 May 10 21:41	22° <del>ℓ</del> 23'30	8.30638 AU	evening set	6376 Jan 18 05:10	12° <del>≈</del> 53'05	
direct	6369 Jul 18 11:48	18° <del>ℓ</del> 55'52					
evening set	6369 Nov 01 12:54	26° <del>ℓ</del> 56'44		conjunction	6376 Feb 04 04:35	14° <del>≈</del> 55'49	0°36'02
				minimum elong	6376 Feb 04 04:36	14° <del>≈</del> 55'50	0°36'03
conjunction	6369 Nov 19 04:06	29° <del>ℓ</del> 09'27	2°04'31	max. Earth dist.	6376 Feb 04 03:13	14° <del>≈</del> 55'24	10.76770 AU
minimum elong	6369 Nov 19 04:06	29° <del>ℓ</del> 09'27	2°04'34		6376 Feb 04 18:23	15° <del>≈</del>	
max. Earth dist.	6369 Nov 19 01:22	29° <del>ℓ</del> 08'35	10.33738 AU	morning rise	6376 Feb 21 01:14	16° <del>≈</del> 57'46	
	6369 Nov 25 20:15	0° <del>≈</del>		retrograde	6376 May 31 09:33	24° <del>≈</del> 10'34	
morning rise	6369 Dec 06 15:28	1° <del>≈</del> 21'02		opposition	6376 Aug 08 14:03	20° <del>≈</del> 51'30	0°28'47
retrograde	6370 Mar 18 06:26	9° <del>≈</del> 03'23		min. Earth dist.	6376 Aug 08 15:11	20° <del>≈</del> 51'17	8.79514 AU
opposition	6370 May 24 08:34	5° <del>≈</del> 40'26	2°34'05	direct	6376 Oct 18 04:01	17° <del>≈</del> 29'10	
min. Earth dist.	6370 May 24 11:00	5° <del>≈</del> 39'57	8.37310 AU	evening set	6377 Jan 29 08:58	24° <del>≈</del> 50'24	
direct	6370 Aug 01 09:28	2° <del>≈</del> 12'58					
evening set	6370 Nov 15 10:27	10° <del>≈</del> 09'31		conjunction	6377 Feb 15 06:17	26° <del>≈</del> 51'56	0°10'27
				minimum elong	6377 Feb 15 06:17	26° <del>≈</del> 51'56	0°10'27
conjunction	6370 Dec 02 22:29	12° <del>≈</del> 20'25	2°02'34	behind sun begin	6377 Feb 15 00:44	26° <del>≈</del> 50'17	
minimum elong	6370 Dec 02 22:30	12° <del>≈</del> 20'26	2°02'37	behind sun end	6377 Feb 15 11:50	26° <del>≈</del> 53'35	
max. Earth dist.	6370 Dec 02 18:58	12° <del>≈</del> 19'19	10.40757 AU	max. Earth dist.	6377 Feb 15 05:04	26° <del>≈</del> 51'34	10.81983 AU
morning rise	6370 Dec 20 06:30	14° <del>≈</del> 30'08		morning rise	6377 Mar 04 01:41	28° <del>≈</del> 52'52	
retrograde	6371 Mar 31 09:26	22° <del>≈</del> 06'24			6377 Mar 13 16:33	0° <del>≈</del>	
opposition	6371 Jun 06 17:55	18° <del>≈</del> 44'29	2°27'31	retrograde	6377 Jun 12 13:20	6° <del>≈</del> 03'47	
min. Earth dist.	6371 Jun 06 21:14	18° <del>≈</del> 43'50	8.44587 AU	desc. node	6377 Jul 16 15:05	5° <del>≈</del> 08'02	
direct	6371 Aug 15 04:28	15° <del>≈</del> 17'43		opposition	6377 Aug 21 04:28	2° <del>≈</del> 44'42	-0°03'00
evening set	6371 Nov 29 00:24	23° <del>≈</del> 09'01		min. Earth dist.	6377 Aug 21 04:57	2° <del>≈</del> 44'37	8.84126 AU
					6377 Oct 03 02:08	30° <del>≈</del>	
conjunction	6371 Dec 16 09:25	25° <del>≈</del> 18'05	1°54'21	direct	6377 Oct 30 19:30	29° <del>≈</del> 23'11	
minimum elong	6371 Dec 16 09:26	25° <del>≈</del> 18'06	1°54'25		6377 Nov 27 04:25	0° <del>≈</del>	
max. Earth dist.	6371 Dec 16 05:03	25° <del>≈</del> 16'44	10.48252 AU	evening set	6378 Feb 10 08:35	6° <del>≈</del> 39'53	
morning rise	6372 Jan 02 14:31	27° <del>≈</del> 25'59					
	6372 Jan 24 13:01	0° <del>≈</del>		conjunction	6378 Feb 27 04:09	8° <del>≈</del> 40'25	-0°15'27
retrograde	6372 Apr 12 07:00	4° <del>≈</del> 56'20		minimum elong	6378 Feb 27 04:09	8° <del>≈</del> 40'25	0°15'26
opposition	6372 Jun 18 23:48	1° <del>≈</del> 35'21	2°13'39	behind sun begin	6378 Feb 27 01:55	8° <del>≈</del> 39'45	
min. Earth dist.	6372 Jun 19 03:07	1° <del>≈</del> 34'42	8.52187 AU	behind sun end	6378 Feb 27 06:22	8° <del>≈</del> 41'05	
	6372 Jul 10 04:33	30° <del>≈</del>		max. Earth dist.	6378 Feb 27 03:58	8° <del>≈</del> 40'22	10.85945 AU
direct	6372 Aug 27 19:54	28° <del>≈</del> 09'23		morning rise	6378 Mar 15 22:28	10° <del>≈</del> 40'35	
	6372 Oct 14 10:20	0° <del>≈</del>		retrograde	6378 Jun 24 18:46	17° <del>≈</del> 50'50	
evening set	6372 Dec 11 06:29	5° <del>≈</del> 54'44		opposition	6378 Sep 02 17:04	14° <del>≈</del> 31'34	-0°34'21
				min. Earth dist.	6378 Sep 02 16:00	14° <del>≈</del> 31'46	8.87412 AU
conjunction	6372 Dec 28 12:48	8° <del>≈</del> 02'03	1°40'36	direct	6378 Nov 12 07:12	11° <del>≈</del> 10'49	
minimum elong	6372 Dec 28 12:50	8° <del>≈</del> 02'04	1°40'39	evening set	6379 Feb 22 05:09	18° <del>≈</del> 23'54	
max. Earth dist.	6372 Dec 28 08:34	8° <del>≈</del> 00'45	10.55932 AU				
morning rise	6373 Jan 14 15:21	10° <del>≈</del> 08'14		conjunction	6379 Mar 10 23:21	20° <del>≈</del> 23'43	-0°40'27
retrograde	6373 Apr 25 01:12	17° <del>≈</del> 33'03		minimum elong	6379 Mar 10 23:19	20° <del>≈</del> 23'43	0°40'26
opposition	6373 Jul 02 02:16	14° <del>≈</del> 12'49	1°53'31	max. Earth dist.	6379 Mar 11 00:53	20° <del>≈</del> 24'11	10.88495 AU
min. Earth dist.	6373 Jul 02 04:50	14° <del>≈</del> 12'19	8.59797 AU	morning rise	6379 Mar 27 16:47	22° <del>≈</del> 23'22	
direct	6373 Sep 10 05:43	10° <del>≈</del> 47'46		retrograde	6379 Jul 07 00:21	29° <del>≈</del> 34'08	
evening set	6373 Dec 24 04:53	18° <del>≈</del> 26'45		opposition	6379 Sep 15 04:28	26° <del>≈</del> 14'33	-1°04'06
				min. Earth dist.	6379 Sep 15 02:24	26° <del>≈</del> 14'56	8.89233 AU
conjunction	6374 Jan 10 08:45	20° <del>≈</del> 32'25	1°22'14	direct	6379 Nov 24 13:26	22° <del>≈</del> 54'26	
minimum elong	6374 Jan 10 08:47	20° <del>≈</del> 32'26	1°22'17		6380 Mar 04 07:08	0° <del>≈</del>	
max. Earth dist.	6374 Jan 10 05:38	20° <del>≈</del> 31'28	10.63459 AU	evening set	6380 Mar 05 00:19	0° <del>≈</del> 05'02	
morning rise	6374 Jan 27 08:58	22° <del>≈</del> 33'00					
retrograde	6374 May 07 14:55	29° <del>≈</del> 56'55		conjunction	6380 Mar 21 17:19	2° <del>≈</del> 04'24	-1°03'41
opposition	6374 Jul 15 01:19	26° <del>≈</del> 37'15	1°28'25	minimum elong	6380 Mar 21 17:17	2° <del>≈</del> 04'23	1°03'41
min. Earth dist.	6374 Jul 15 02:52	26° <del>≈</del> 36'57	8.67089 AU	max. Earth dist.	6380 Mar 21 19:27	2° <del>≈</del> 05'02	10.89523 AU
direct	6374 Sep 23 10:38	23° <del>≈</del> 13'09		morning rise	6380 Apr 07 10:21	4° <del>≈</del> 03'49	
	6374 Dec 30 09:24	0° <del>≈</del>		retrograde	6380 Jul 18 05:45	11° <del>≈</del> 16'13	

opposition	6380 Sep 26 15:17	7° $\Upsilon$ 56'12 -1°31'07	opposition	6386 Dec 10 10:56	19° $\Pi$ 50'33 -2°26'29
min. Earth dist.	6380 Sep 26 13:05	7° $\Upsilon$ 56'37 8.89511 AU	min. Earth dist.	6386 Dec 10 07:43	19° $\Pi$ 51'10 8.62347 AU
direct	6380 Dec 05 18:55	4° $\Upsilon$ 36'34	direct	6387 Feb 16 12:57	16° $\Pi$ 30'03
evening set	6381 Mar 16 19:05	11° $\Upsilon$ 45'49	evening set	6387 May 27 19:08	23° $\Pi$ 52'30
conjunction	6381 Apr 02 11:16	13° $\Upsilon$ 45'02 -1°24'16	conjunction	6387 Jun 13 21:56	25° $\Pi$ 58'16 -1°54'00
minimum elong	6381 Apr 02 11:14	13° $\Upsilon$ 45'01 1°24'17	minimum elong	6387 Jun 13 21:58	25° $\Pi$ 58'16 1°54'03
max. Earth dist.	6381 Apr 02 13:13	13° $\Upsilon$ 45'37 10.88994 AU	max. Earth dist.	6387 Jun 14 02:02	25° $\Pi$ 59'32 10.58501 AU
morning rise	6381 Apr 19 04:29	15° $\Upsilon$ 44'32	morning rise	6387 Jul 01 04:50	28° $\Pi$ 05'17
retrograde	6381 Jul 30 13:39	22° $\Upsilon$ 59'41		6387 Jul 17 11:54	0° $\Theta$
opposition	6381 Oct 09 02:33	19° $\Upsilon$ 39'05 -1°54'23	retrograde	6387 Oct 14 17:39	5° $\Theta$ 49'56
min. Earth dist.	6381 Oct 09 00:18	19° $\Upsilon$ 39'30 8.88239 AU	opposition	6387 Dec 23 11:04	2° $\Theta$ 24'28 -2°12'38
direct	6381 Dec 17 23:25	16° $\Upsilon$ 19'46	min. Earth dist.	6387 Dec 23 07:53	2° $\Theta$ 25'05 8.54799 AU
evening set	6382 Mar 28 14:27	23° $\Upsilon$ 28'44		6388 Jan 26 21:52	30° $\mathcal{R}$ $\Pi$
conjunction	6382 Apr 14 06:32	25° $\Upsilon$ 28'08 -1°41'23	direct	6388 Feb 29 05:12	29° $\Pi$ 03'11
minimum elong	6382 Apr 14 06:30	25° $\Upsilon$ 28'08 1°41'25		6388 Apr 01 23:27	0° $\Theta$
max. Earth dist.	6382 Apr 14 09:15	25° $\Upsilon$ 28'57 10.86930 AU	evening set	6388 Jun 08 17:41	6° $\Theta$ 30'37
morning rise	6382 May 01 00:24	27° $\Upsilon$ 28'04	conjunction	6388 Jun 26 00:39	8° $\Theta$ 38'30 -1°39'52
	6382 May 23 12:43	0° $\mathcal{B}$	minimum elong	6388 Jun 26 00:42	8° $\Theta$ 38'30 1°39'55
retrograde	6382 Aug 11 23:16	4° $\mathcal{B}$ 46'55	max. Earth dist.	6388 Jun 26 04:55	8° $\Theta$ 39'49 10.50876 AU
opposition	6382 Oct 21 14:37	1° $\mathcal{B}$ 25'35 -2°12'59	morning rise	6388 Jul 13 11:38	10° $\Theta$ 47'39
min. Earth dist.	6382 Oct 21 11:32	1° $\mathcal{B}$ 26'10 8.85459 AU	retrograde	6388 Oct 27 06:01	18° $\Theta$ 37'23
	6382 Nov 10 05:38	30° $\mathcal{R}$ $\Upsilon$	opposition	6389 Jan 04 14:26	15° $\Theta$ 11'09 -1°52'02
direct	6382 Dec 30 03:36	28° $\Upsilon$ 06'26	min. Earth dist.	6389 Jan 04 11:17	15° $\Theta$ 11'47 8.47115 AU
	6383 Feb 16 05:41	0° $\mathcal{B}$	direct	6389 Mar 13 01:56	11° $\Theta$ 48'56
evening set	6383 Apr 09 11:54	5° $\mathcal{B}$ 16'13	evening set	6389 Jun 21 23:31	19° $\Theta$ 21'53
conjunction	6383 Apr 26 04:41	7° $\mathcal{B}$ 16'11 -1°54'20	conjunction	6389 Jul 09 10:51	21° $\Theta$ 31'59 -1°20'33
minimum elong	6383 Apr 26 04:39	7° $\mathcal{B}$ 16'11 1°54'22	minimum elong	6389 Jul 09 10:53	21° $\Theta$ 32'00 1°20'36
max. Earth dist.	6383 Apr 26 08:39	7° $\mathcal{B}$ 17'23 10.83406 AU	max. Earth dist.	6389 Jul 09 13:55	21° $\Theta$ 32'56 10.43273 AU
morning rise	6383 May 12 23:41	9° $\mathcal{B}$ 16'52	morning rise	6389 Jul 27 02:03	23° $\Theta$ 43'18
	6383 Jul 09 20:14	15° $\mathcal{B}$		6389 Sep 26 18:53	0° $\mathcal{Q}$
retrograde	6383 Aug 24 14:00	16° $\mathcal{B}$ 40'10	retrograde	6389 Nov 09 22:59	1° $\mathcal{Q}$ 37'36
	6383 Oct 10 13:17	15° $\mathcal{R}$ $\mathcal{B}$		6389 Dec 24 16:52	30° $\mathcal{R}$ $\Theta$
opposition	6383 Nov 03 03:59	13° $\mathcal{B}$ 18'03 -2°26'06	opposition	6390 Jan 17 21:05	28° $\Theta$ 10'46 -1°25'23
min. Earth dist.	6383 Nov 03 00:02	13° $\mathcal{B}$ 18'47 8.81276 AU	min. Earth dist.	6390 Jan 17 18:54	28° $\Theta$ 11'11 8.39607 AU
direct	6384 Jan 11 09:27	9° $\mathcal{B}$ 58'51	direct	6390 Mar 26 02:44	24° $\Theta$ 47'29
	6384 Apr 01 11:48	15° $\mathcal{B}$		6390 Jun 14 22:32	0° $\mathcal{Q}$
evening set	6384 Apr 20 12:32	17° $\mathcal{B}$ 10'28	evening set	6390 Jul 05 12:51	2° $\mathcal{Q}$ 26'23
conjunction	6384 May 07 06:38	19° $\mathcal{B}$ 11'23 -2°02'28	conjunction	6390 Jul 23 04:24	4° $\mathcal{Q}$ 38'40 -0°56'47
minimum elong	6384 May 07 06:37	19° $\mathcal{B}$ 11'23 2°02'30	minimum elong	6390 Jul 23 04:26	4° $\mathcal{Q}$ 38'41 0°56'50
max. Earth dist.	6384 May 07 11:12	19° $\mathcal{B}$ 12'46 10.78568 AU	max. Earth dist.	6390 Jul 23 05:42	4° $\mathcal{Q}$ 39'05 10.36030 AU
morning rise	6384 May 24 03:33	21° $\mathcal{B}$ 13'10	morning rise	6390 Aug 09 23:33	6° $\mathcal{Q}$ 52'05
retrograde	6384 Sep 05 09:06	28° $\mathcal{B}$ 41'30	retrograde	6390 Nov 23 19:57	14° $\mathcal{Q}$ 50'13
opposition	6384 Nov 14 19:38	25° $\mathcal{B}$ 18'33 -2°33'02	opposition	6391 Jan 31 06:58	11° $\mathcal{Q}$ 22'58 -0°53'48
min. Earth dist.	6384 Nov 14 15:25	25° $\mathcal{B}$ 19'21 8.75865 AU	min. Earth dist.	6391 Jan 31 06:06	11° $\mathcal{Q}$ 23'08 8.32681 AU
direct	6385 Jan 22 14:42	21° $\mathcal{B}$ 59'08	direct	6391 Apr 08 08:29	7° $\mathcal{Q}$ 58'35
evening set	6385 May 02 17:15	29° $\mathcal{B}$ 13'31		6391 Jul 13 11:27	15° $\mathcal{Q}$
	6385 May 09 04:05	0° $\Pi$	evening set	6391 Jul 19 09:35	15° $\mathcal{Q}$ 43'36
conjunction	6385 May 19 13:22	1° $\Pi$ 15'42 -2°05'19	conjunction	6391 Aug 06 04:50	17° $\mathcal{Q}$ 57'50 -0°29'41
minimum elong	6385 May 19 13:22	1° $\Pi$ 15'42 2°05'21	minimum elong	6391 Aug 06 04:51	17° $\mathcal{Q}$ 57'50 0°29'43
max. Earth dist.	6385 May 19 17:26	1° $\Pi$ 16'57 10.72630 AU	max. Earth dist.	6391 Aug 06 04:39	17° $\mathcal{Q}$ 57'47 10.29594 AU
morning rise	6385 Jun 05 13:03	3° $\Pi$ 18'58	morning rise	6391 Aug 24 03:09	20° $\mathcal{Q}$ 13'01
retrograde	6385 Sep 18 07:03	10° $\Pi$ 52'42	retrograde	6391 Dec 07 18:10	28° $\mathcal{Q}$ 14'02
opposition	6385 Nov 27 13:57	7° $\Pi$ 28'54 -2°33'16	opposition	6392 Feb 13 19:47	24° $\mathcal{Q}$ 46'32 -0°18'48
min. Earth dist.	6385 Nov 27 10:17	7° $\Pi$ 29'36 8.69464 AU	min. Earth dist.	6392 Feb 13 20:00	24° $\mathcal{Q}$ 46'30 8.26810 AU
direct	6386 Feb 03 23:28	4° $\Pi$ 09'03	direct	6392 Apr 20 20:44	21° $\mathcal{Q}$ 21'05
evening set	6386 May 15 03:13	11° $\Pi$ 27'06	evening set	6392 Aug 01 13:05	29° $\mathcal{Q}$ 11'57
				6392 Aug 07 22:34	0° $\mathcal{Q}$
conjunction	6386 Jun 01 02:15	13° $\Pi$ 30'55 -2°02'32	conjunction	6392 Aug 19 11:16	1° $\mathcal{Q}$ 27'45 -0°00'39
minimum elong	6386 Jun 01 02:16	13° $\Pi$ 30'56 2°02'34	minimum elong	6392 Aug 19 11:16	1° $\mathcal{Q}$ 27'45 0°00'41
max. Earth dist.	6386 Jun 01 06:06	13° $\Pi$ 32'06 10.65849 AU	behind sun begin	6392 Aug 19 03:58	1° $\mathcal{Q}$ 25'28
morning rise	6386 Jun 18 05:21	15° $\Pi$ 35'56	behind sun end	6392 Aug 19 18:34	1° $\mathcal{Q}$ 30'03
retrograde	6386 Oct 01 09:37	23° $\Pi$ 15'12			



max. Earth dist.	6392 Aug 19 10:23	1° $\mathbb{M}$ 27'32	10.24413 AU	minimum elong	6398 Nov 13 03:24	23° $\mathbb{M}$ 18'39	2°03'18
asc. node	6392 Aug 27 14:26	2° $\mathbb{M}$ 29'44		max. Earth dist.	6398 Nov 12 23:02	23° $\mathbb{M}$ 17'16	10.30271 AU
morning rise	6392 Sep 06 11:38	3° $\mathbb{M}$ 44'15		morning rise	6398 Nov 30 16:38	25° $\mathbb{M}$ 31'08	
retrograde	6392 Dec 20 17:45	11° $\mathbb{M}$ 46'55			6399 Jan 09 09:33	0° $\mathbb{M}$	
opposition	6393 Feb 26 10:59	8° $\mathbb{M}$ 19'21	0°17'39	retrograde	6399 Mar 12 12:01	3° $\mathbb{M}$ 16'07	
min. Earth dist.	6393 Feb 26 11:35	8° $\mathbb{M}$ 19'14	8.22399 AU		6399 May 16 22:58	30° $\mathbb{R}$ $\mathbb{M}$	
direct	6393 May 04 13:32	4° $\mathbb{M}$ 52'54		opposition	6399 May 18 13:35	29° $\mathbb{M}$ 52'17	2°34'31
evening set	6393 Aug 15 22:09	12° $\mathbb{M}$ 48'59		min. Earth dist.	6399 May 18 16:24	29° $\mathbb{M}$ 51'43	8.33547 AU
				direct	6399 Jul 26 11:24	26° $\mathbb{M}$ 24'06	
conjunction	6393 Sep 02 22:13	15° $\mathbb{M}$ 05'50	0°28'43		6399 Oct 01 15:14	0° $\mathbb{M}$	
minimum elong	6393 Sep 02 22:11	15° $\mathbb{M}$ 05'50	0°28'42	evening set	6399 Nov 09 11:05	4° $\mathbb{M}$ 22'37	
max. Earth dist.	6393 Sep 02 21:06	15° $\mathbb{M}$ 05'29	10.20824 AU				
morning rise	6393 Sep 20 23:19	17° $\mathbb{M}$ 23'03		conjunction	6399 Nov 27 00:34	6° $\mathbb{M}$ 34'23	2°04'20
retrograde	6394 Jan 03 18:26	25° $\mathbb{M}$ 26'01		minimum elong	6399 Nov 27 00:34	6° $\mathbb{M}$ 34'23	2°04'23
opposition	6394 Mar 12 03:54	21° $\mathbb{M}$ 58'36	0°53'26	max. Earth dist.	6399 Nov 26 20:38	6° $\mathbb{M}$ 33'09	10.36795 AU
min. Earth dist.	6394 Mar 12 04:36	21° $\mathbb{M}$ 58'27	8.19715 AU	morning rise	6399 Dec 14 10:19	8° $\mathbb{M}$ 45'00	
direct	6394 May 18 09:07	18° $\mathbb{M}$ 31'18		retrograde	6400 Mar 24 16:28	16° $\mathbb{M}$ 23'59	
evening set	6394 Aug 30 11:19	26° $\mathbb{M}$ 31'37		opposition	6400 May 30 23:47	13° $\mathbb{M}$ 01'08	2°31'35
				min. Earth dist.	6400 May 31 01:57	13° $\mathbb{M}$ 00'42	8.40536 AU
conjunction	6394 Sep 17 11:53	28° $\mathbb{M}$ 48'54	0°56'34	direct	6400 Aug 08 07:59	9° $\mathbb{M}$ 33'34	
minimum elong	6394 Sep 17 11:51	28° $\mathbb{M}$ 48'53	0°56'34	evening set	6400 Nov 22 04:02	17° $\mathbb{M}$ 27'12	
max. Earth dist.	6394 Sep 17 10:24	28° $\mathbb{M}$ 48'25	10.19040 AU				
	6394 Sep 26 18:38	0° $\mathbb{M}$		conjunction	6400 Dec 09 14:37	19° $\mathbb{M}$ 37'08	1°58'56
morning rise	6394 Oct 05 12:18	1° $\mathbb{M}$ 06'11		minimum elong	6400 Dec 09 14:39	19° $\mathbb{M}$ 37'09	1°58'59
retrograde	6395 Jan 17 19:36	9° $\mathbb{M}$ 08'00		max. Earth dist.	6400 Dec 09 11:36	19° $\mathbb{M}$ 36'12	10.44181 AU
opposition	6395 Mar 25 21:44	5° $\mathbb{M}$ 40'58	1°26'19	morning rise	6400 Dec 26 21:05	21° $\mathbb{M}$ 45'53	
min. Earth dist.	6395 Mar 25 22:43	5° $\mathbb{M}$ 40'46	8.18913 AU	retrograde	6401 Apr 06 17:01	29° $\mathbb{M}$ 18'46	
direct	6395 Jun 01 07:30	2° $\mathbb{M}$ 12'59		opposition	6401 Jun 13 06:36	25° $\mathbb{M}$ 56'55	2°20'58
evening set	6395 Sep 14 02:14	10° $\mathbb{M}$ 16'15		min. Earth dist.	6401 Jun 13 08:37	25° $\mathbb{M}$ 56'31	8.48179 AU
				direct	6401 Aug 21 23:35	22° $\mathbb{M}$ 30'11	
conjunction	6395 Oct 02 02:03	12° $\mathbb{M}$ 33'19	1°21'15		6401 Dec 03 01:39	0° $\mathbb{M}$	
minimum elong	6395 Oct 02 02:00	12° $\mathbb{M}$ 33'18	1°21'16	evening set	6401 Dec 05 13:17	0° $\mathbb{M}$ 18'03	
max. Earth dist.	6395 Oct 02 00:01	12° $\mathbb{M}$ 32'40	10.19168 AU				
morning rise	6395 Oct 20 00:38	14° $\mathbb{M}$ 50'04		conjunction	6401 Dec 22 21:02	2° $\mathbb{M}$ 26'12	1°47'38
retrograde	6396 Jan 31 17:36	22° $\mathbb{M}$ 49'20		minimum elong	6401 Dec 22 21:03	2° $\mathbb{M}$ 26'12	1°47'41
opposition	6396 Apr 07 15:45	19° $\mathbb{M}$ 22'53	1°54'16	max. Earth dist.	6401 Dec 22 18:29	2° $\mathbb{M}$ 25'24	10.52038 AU
min. Earth dist.	6396 Apr 07 17:24	19° $\mathbb{M}$ 22'33	8.20036 AU	morning rise	6402 Jan 09 00:37	4° $\mathbb{M}$ 33'07	
direct	6396 Jun 14 08:46	15° $\mathbb{M}$ 54'28		retrograde	6402 Apr 19 13:50	12° $\mathbb{M}$ 00'10	
evening set	6396 Sep 27 16:31	23° $\mathbb{M}$ 59'05		opposition	6402 Jun 26 10:13	8° $\mathbb{M}$ 39'16	2°03'35
				min. Earth dist.	6402 Jun 26 12:23	8° $\mathbb{M}$ 38'50	8.56094 AU
conjunction	6396 Oct 15 14:31	26° $\mathbb{M}$ 15'22	1°41'16	direct	6402 Sep 04 09:32	5° $\mathbb{M}$ 13'31	
minimum elong	6396 Oct 15 14:29	26° $\mathbb{M}$ 15'21	1°41'18	evening set	6402 Dec 18 14:39	12° $\mathbb{M}$ 55'07	
max. Earth dist.	6396 Oct 15 11:32	26° $\mathbb{M}$ 14'24	10.21192 AU				
morning rise	6396 Nov 02 10:27	28° $\mathbb{M}$ 31'03		conjunction	6403 Jan 04 19:39	15° $\mathbb{M}$ 01'31	1°31'17
	6396 Nov 14 12:35	0° $\mathbb{M}$		minimum elong	6403 Jan 04 19:42	15° $\mathbb{M}$ 01'31	1°31'20
retrograde	6397 Feb 13 11:50	6° $\mathbb{M}$ 26'31		max. Earth dist.	6403 Jan 04 17:08	15° $\mathbb{M}$ 00'44	10.59978 AU
opposition	6397 Apr 21 08:58	3° $\mathbb{M}$ 00'50	2°15'36	morning rise	6403 Jan 21 20:53	17° $\mathbb{M}$ 06'47	
min. Earth dist.	6397 Apr 21 11:36	3° $\mathbb{M}$ 00'18	8.22992 AU	retrograde	6403 May 02 03:42	24° $\mathbb{M}$ 28'32	
	6397 Jun 05 14:17	30° $\mathbb{R}$ $\mathbb{M}$		opposition	6403 Jul 09 10:24	21° $\mathbb{M}$ 08'28	1°40'38
direct	6397 Jun 28 10:54	29° $\mathbb{M}$ 32'13		min. Earth dist.	6403 Jul 09 12:30	21° $\mathbb{M}$ 08'04	8.63902 AU
	6397 Jul 21 06:56	0° $\mathbb{M}$		direct	6403 Sep 17 16:40	17° $\mathbb{M}$ 43'47	
evening set	6397 Oct 12 04:10	7° $\mathbb{M}$ 36'28		evening set	6403 Dec 31 08:48	25° $\mathbb{M}$ 19'01	
conjunction	6397 Oct 29 23:36	9° $\mathbb{M}$ 51'31	1°55'30	conjunction	6404 Jan 17 11:20	27° $\mathbb{M}$ 23'46	1°10'55
minimum elong	6397 Oct 29 23:34	9° $\mathbb{M}$ 51'30	1°55'32	minimum elong	6404 Jan 17 11:22	27° $\mathbb{M}$ 23'47	1°10'57
max. Earth dist.	6397 Oct 29 19:32	9° $\mathbb{M}$ 50'13	10.24969 AU	max. Earth dist.	6404 Jan 17 08:53	27° $\mathbb{M}$ 23'01	10.67624 AU
morning rise	6397 Nov 16 16:18	12° $\mathbb{M}$ 05'44		morning rise	6404 Feb 03 10:36	29° $\mathbb{M}$ 27'32	
	6397 Dec 11 02:24	15° $\mathbb{M}$			6404 Feb 07 23:44	0° $\mathbb{M}$	
retrograde	6398 Feb 27 02:05	19° $\mathbb{M}$ 56'19		retrograde	6404 May 13 14:42	6° $\mathbb{M}$ 44'48	
opposition	6398 May 05 00:24	16° $\mathbb{M}$ 31'32	2°29'12	opposition	6404 Jul 21 07:05	3° $\mathbb{M}$ 25'23	1°13'27
min. Earth dist.	6398 May 05 03:29	16° $\mathbb{M}$ 30'55	8.27587 AU	min. Earth dist.	6404 Jul 21 08:24	3° $\mathbb{M}$ 25'08	8.71239 AU
	6398 May 24 14:45	15° $\mathbb{R}$ $\mathbb{M}$		direct	6404 Sep 29 19:11	0° $\mathbb{M}$ 01'48	
direct	6398 Jul 12 11:56	13° $\mathbb{M}$ 02'59		evening set	6405 Jan 11 20:24	7° $\mathbb{M}$ 30'53	
	6398 Aug 29 14:51	15° $\mathbb{M}$					
evening set	6398 Oct 26 10:56	21° $\mathbb{M}$ 05'10		conjunction	6405 Jan 28 20:46	9° $\mathbb{M}$ 34'09	0°47'36
				minimum elong	6405 Jan 28 20:48	9° $\mathbb{M}$ 34'10	0°47'38
conjunction	6398 Nov 13 03:25	23° $\mathbb{M}$ 18'40	2°03'16	max. Earth dist.	6405 Jan 28 19:24	9° $\mathbb{M}$ 33'44	10.74626 AU

morning rise	6405 Feb 14 18:14	11° $\approx$ 36'34	evening set	6411 Mar 23 11:37	18° $\Upsilon$ 16'09
	6405 Mar 17 07:02	15° $\approx$			
retrograde	6405 May 26 00:24	18° $\approx$ 50'20	conjunction	6411 Apr 09 03:45	20° $\Upsilon$ 15'20 -1°33'46
opposition	6405 Aug 03 00:58	15° $\approx$ 31'22 0°43'24	minimum elong	6411 Apr 09 03:43	20° $\Upsilon$ 15'20 1°33'48
min. Earth dist.	6405 Aug 03 01:03	15° $\approx$ 31'21 8.77778 AU	max. Earth dist.	6411 Apr 09 05:57	20° $\Upsilon$ 16'00 10.89225 AU
	6405 Aug 09 23:36	15° $\approx$	morning rise	6411 Apr 25 21:03	22° $\Upsilon$ 14'55
direct	6405 Oct 12 15:35	12° $\approx$ 08'54	retrograde	6411 Aug 06 14:39	29° $\Upsilon$ 31'43
	6405 Dec 12 05:21	15° $\approx$	opposition	6411 Oct 16 03:35	26° $\Upsilon$ 11'11 -2°04'47
evening set	6406 Jan 24 02:18	19° $\approx$ 32'15	min. Earth dist.	6411 Oct 16 01:25	26° $\Upsilon$ 11'35 8.87868 AU
			direct	6411 Dec 24 19:45	22° $\Upsilon$ 52'20
conjunction	6406 Feb 10 00:39	21° $\approx$ 34'14 0°22'29	evening set	6412 Apr 03 08:20	0° $\text{B}$ 01'33
minimum elong	6406 Feb 10 00:40	21° $\approx$ 34'14 0°22'30		6412 Apr 03 03:04	0° $\text{B}$
max. Earth dist.	6406 Feb 10 00:48	21° $\approx$ 34'17 10.80673 AU			
morning rise	6406 Feb 26 20:30	23° $\approx$ 35'31	conjunction	6412 Apr 20 00:35	2° $\text{B}$ 01'09 -1°48'45
	6406 May 07 19:41	0° $\text{H}$	minimum elong	6412 Apr 20 00:33	2° $\text{B}$ 01'09 1°48'47
retrograde	6406 Jun 07 06:49	0° $\text{H}$ 46'51	max. Earth dist.	6412 Apr 20 02:12	2° $\text{B}$ 01'39 10.85916 AU
	6406 Jul 08 07:10	30° $\approx$	morning rise	6412 May 06 18:56	4° $\text{B}$ 01'23
opposition	6406 Aug 15 16:26	27° $\approx$ 28'09 0°11'54	retrograde	6412 Aug 18 02:59	11° $\text{B}$ 22'26
min. Earth dist.	6406 Aug 15 15:48	27° $\approx$ 28'16 8.83248 AU	opposition	6412 Oct 27 16:35	8° $\text{B}$ 01'01 -2°20'35
direct	6406 Oct 25 07:06	24° $\approx$ 06'42	min. Earth dist.	6412 Oct 27 14:45	8° $\text{B}$ 01'22 8.83829 AU
desc. node	6407 Jan 03 19:08	27° $\approx$ 52'49	direct	6413 Jan 05 01:03	4° $\text{B}$ 42'02
	6407 Jan 23 20:37	0° $\text{H}$	evening set	6413 Apr 15 07:32	11° $\text{B}$ 52'45
evening set	6407 Feb 05 03:48	1° $\text{H}$ 25'05			
			conjunction	6413 May 02 00:45	13° $\text{B}$ 53'10 -1°59'13
conjunction	6407 Feb 22 00:14	3° $\text{H}$ 25'57 -0°03'27	minimum elong	6413 May 02 00:44	13° $\text{B}$ 53'09 1°59'15
minimum elong	6407 Feb 22 00:14	3° $\text{H}$ 25'57 0°03'25	max. Earth dist.	6413 May 02 02:37	13° $\text{B}$ 53'44 10.81161 AU
behind sun begin	6407 Feb 21 17:15	3° $\text{H}$ 23'53		6413 May 11 06:22	15° $\text{B}$
behind sun end	6407 Feb 22 07:12	3° $\text{H}$ 28'02	morning rise	6413 May 18 20:47	15° $\text{B}$ 54'24
max. Earth dist.	6407 Feb 22 00:59	3° $\text{H}$ 26'09 10.85521 AU	retrograde	6413 Aug 30 18:32	23° $\text{B}$ 20'22
morning rise	6407 Mar 10 18:52	5° $\text{H}$ 26'20	opposition	6413 Nov 09 07:28	19° $\text{B}$ 57'56 -2°30'31
retrograde	6407 Jun 19 12:19	12° $\text{H}$ 36'23	min. Earth dist.	6413 Nov 09 05:23	19° $\text{B}$ 58'20 8.78445 AU
opposition	6407 Aug 28 05:47	9° $\text{H}$ 17'44 -0°19'47	direct	6414 Jan 17 07:09	16° $\text{B}$ 38'37
min. Earth dist.	6407 Aug 28 05:13	9° $\text{H}$ 17'50 8.87428 AU	evening set	6414 Apr 27 10:13	23° $\text{B}$ 51'47
direct	6407 Nov 06 19:12	5° $\text{H}$ 57'08			
evening set	6408 Feb 17 01:53	13° $\text{H}$ 11'29	conjunction	6414 May 14 05:21	25° $\text{B}$ 53'22 -2°04'36
			minimum elong	6414 May 14 05:21	25° $\text{B}$ 53'22 2°04'38
conjunction	6408 Mar 04 20:34	15° $\text{H}$ 11'28 -0°28'53	max. Earth dist.	6414 May 14 08:25	25° $\text{B}$ 54'18 10.75180 AU
minimum elong	6408 Mar 04 20:33	15° $\text{H}$ 11'28 0°28'52	morning rise	6414 May 31 03:39	27° $\text{B}$ 55'57
max. Earth dist.	6408 Mar 04 20:59	15° $\text{H}$ 11'36 10.88959 AU		6414 Jun 18 02:39	0° $\text{II}$
morning rise	6408 Mar 21 14:24	17° $\text{H}$ 11'12	retrograde	6414 Sep 12 14:36	5° $\text{II}$ 27'21
retrograde	6408 Jun 30 16:17	24° $\text{H}$ 21'08	opposition	6414 Nov 22 00:32	2° $\text{II}$ 03'49 -2°33'59
opposition	6408 Sep 08 17:42	21° $\text{H}$ 02'18 -0°50'23	min. Earth dist.	6414 Nov 21 21:36	2° $\text{II}$ 04'22 8.71944 AU
min. Earth dist.	6408 Sep 08 16:55	21° $\text{H}$ 02'27 8.90108 AU		6414 Dec 21 03:56	30° $\approx$
direct	6408 Nov 18 03:59	17° $\text{H}$ 42'25	direct	6415 Jan 29 16:05	28° $\text{B}$ 43'58
evening set	6409 Feb 27 21:40	24° $\text{H}$ 53'45		6415 Mar 09 04:12	0° $\text{II}$
			evening set	6415 May 09 17:44	6° $\text{II}$ 00'31
conjunction	6409 Mar 16 15:01	26° $\text{H}$ 53'07 -0°53'02			
minimum elong	6409 Mar 16 14:59	26° $\text{H}$ 53'07 0°53'02	conjunction	6415 May 26 15:29	8° $\text{II}$ 03'39 -2°04'30
max. Earth dist.	6409 Mar 16 16:00	26° $\text{H}$ 53'25 10.90798 AU	minimum elong	6415 May 26 15:30	8° $\text{II}$ 03'39 2°04'32
morning rise	6409 Apr 02 08:14	28° $\text{H}$ 52'28	max. Earth dist.	6415 May 26 19:01	8° $\text{II}$ 04'43 10.68221 AU
	6409 Apr 12 02:23	0° $\Upsilon$	morning rise	6415 Jun 12 16:46	10° $\text{II}$ 07'53
retrograde	6409 Jul 12 21:10	6° $\Upsilon$ 03'33	retrograde	6415 Sep 25 16:46	17° $\text{II}$ 44'55
opposition	6409 Sep 21 04:49	2° $\Upsilon$ 44'19 -1°18'46	opposition	6415 Dec 04 20:10	14° $\text{II}$ 20'19 -2°30'32
min. Earth dist.	6409 Sep 21 03:14	2° $\Upsilon$ 44'37 8.91114 AU	min. Earth dist.	6415 Dec 04 17:01	14° $\text{II}$ 20'56 8.64599 AU
	6409 Nov 03 11:34	30° $\approx$	direct	6416 Feb 11 02:38	10° $\text{II}$ 59'47
direct	6409 Nov 30 11:55	29° $\text{H}$ 24'59	evening set	6416 May 21 06:52	18° $\text{II}$ 20'31
	6409 Dec 27 01:18	0° $\Upsilon$			
evening set	6410 Mar 11 16:30	6° $\Upsilon$ 34'24	conjunction	6416 Jun 07 07:51	20° $\text{II}$ 25'29 -1°58'40
			minimum elong	6416 Jun 07 07:53	20° $\text{II}$ 25'30 1°58'42
conjunction	6410 Mar 28 09:01	8° $\Upsilon$ 33'31 -1°14'57	max. Earth dist.	6416 Jun 07 10:54	20° $\text{II}$ 26'26 10.60593 AU
minimum elong	6410 Mar 28 08:59	8° $\Upsilon$ 33'30 1°14'58	morning rise	6416 Jun 24 12:51	22° $\text{II}$ 31'42
max. Earth dist.	6410 Mar 28 10:58	8° $\Upsilon$ 34'06 10.90893 AU		6416 Sep 21 01:27	0° $\text{B}$
morning rise	6410 Apr 14 01:57	10° $\Upsilon$ 32'47	retrograde	6416 Oct 07 23:00	0° $\text{B}$ 14'22
retrograde	6410 Jul 25 05:20	17° $\Upsilon$ 46'12		6416 Oct 24 19:39	30° $\approx$
opposition	6410 Oct 03 15:50	14° $\Upsilon$ 26'24 -1°43'54	opposition	6416 Dec 16 19:05	26° $\text{II}$ 48'48 -2°19'59
min. Earth dist.	6410 Oct 03 13:32	14° $\Upsilon$ 26'49 8.90351 AU	min. Earth dist.	6416 Dec 16 16:23	26° $\text{II}$ 49'20 8.56734 AU
direct	6410 Dec 12 16:16	11° $\Upsilon$ 07'26	direct	6417 Feb 22 15:51	23° $\text{II}$ 27'23

	6417 May 26 17:16	0°♊	retrograde	6422 Dec 28 18:31	19°♏26'48	
evening set	6417 Jun 03 02:14	0°♊53'02	opposition	6423 Mar 06 06:30	15°♏58'55	0°37'13
			min. Earth dist.	6423 Mar 06 06:40	15°♏58'53	8.19414 AU
conjunction	6417 Jun 20 07:07	3°♊00'05 -1°47'07	direct	6423 May 12 08:44	12°♏31'42	
minimum elong	6417 Jun 20 07:10	3°♊00'06 1°47'10	evening set	6423 Aug 24 04:04	20°♏30'51	
max. Earth dist.	6417 Jun 20 09:28	3°♊00'49 10.52631 AU				
morning rise	6417 Jul 07 16:21	5°♊08'27	conjunction	6423 Sep 11 04:27	22°♏48'11	0°44'03
retrograde	6417 Oct 21 08:13	12°♊56'35	minimum elong	6423 Sep 11 04:25	22°♏48'10	0°44'03
opposition	6417 Dec 29 21:17	9°♊30'08 -2°02'28	max. Earth dist.	6423 Sep 11 03:18	22°♏47'49	10.18492 AU
min. Earth dist.	6417 Dec 29 19:20	9°♊30'31 8.48705 AU	morning rise	6423 Sep 29 05:30	25°♏05'43	
direct	6418 Mar 07 11:49	6°♊07'44		6423 Nov 11 16:43	0°♏	
evening set	6418 Jun 16 04:47	13°♊38'52	retrograde	6424 Jan 11 19:59	3°♏08'55	
				6424 Mar 15 05:58	30°♏	
conjunction	6418 Jul 03 14:05	15°♊48'10 -1°30'07	opposition	6424 Mar 19 00:39	29°♏41'31	1°11'43
minimum elong	6418 Jul 03 14:08	15°♊48'11 1°30'10	min. Earth dist.	6424 Mar 19 01:26	29°♏41'22	8.18091 AU
max. Earth dist.	6418 Jul 03 16:18	15°♊48'52 10.44692 AU	direct	6424 May 25 07:13	26°♏13'43	
morning rise	6418 Jul 21 03:35	17°♊58'45		6424 Jul 31 17:54	0°♏	
retrograde	6418 Nov 03 22:35	25°♊51'51	evening set	6424 Sep 06 18:59	4°♏16'26	
opposition	6419 Jan 12 02:37	22°♊24'39 -1°38'29				
min. Earth dist.	6419 Jan 12 00:57	22°♊24'59 8.40886 AU	conjunction	6424 Sep 24 19:13	6°♏33'48	1°10'24
direct	6419 Mar 20 11:46	19°♊01'13	minimum elong	6424 Sep 24 19:10	6°♏33'48	1°10'25
evening set	6419 Jun 29 14:49	26°♊38'12	max. Earth dist.	6424 Sep 24 17:31	6°♏33'16	10.18112 AU
			morning rise	6424 Oct 12 19:01	8°♏51'03	
conjunction	6419 Jul 17 04:35	28°♊49'46 -1°08'17	retrograde	6425 Jan 24 18:49	16°♏52'18	
minimum elong	6419 Jul 17 04:38	28°♊49'46 1°08'20	opposition	6425 Apr 01 19:13	13°♏25'36	1°42'10
max. Earth dist.	6419 Jul 17 06:56	28°♊50'30 10.37154 AU	min. Earth dist.	6425 Apr 01 20:15	13°♏25'23	8.18724 AU
	6419 Jul 26 12:31	0°♏	direct	6425 Jun 08 09:01	9°♏57'26	
morning rise	6419 Aug 03 22:05	1°♏02'30	evening set	6425 Sep 21 10:38	18°♏02'13	
retrograde	6419 Nov 17 18:16	8°♏59'51				
opposition	6420 Jan 25 11:22	5°♏32'07 -1°08'58	conjunction	6425 Oct 09 09:38	20°♏19'02	1°32'43
min. Earth dist.	6420 Jan 25 09:35	5°♏32'28 8.33671 AU	minimum elong	6425 Oct 09 09:35	20°♏19'01	1°32'45
direct	6420 Apr 01 15:20	2°♏07'38	max. Earth dist.	6425 Oct 09 07:47	20°♏18'27	10.19674 AU
evening set	6420 Jul 12 08:14	9°♏50'37	morning rise	6425 Oct 27 07:02	22°♏35'24	
				6426 Jan 14 01:22	0°♏	
conjunction	6420 Jul 30 02:04	12°♏04'15 -0°42'32	retrograde	6426 Feb 07 15:40	0°♏33'20	
minimum elong	6420 Jul 30 02:06	12°♏04'15 0°42'35		6426 Mar 04 10:23	30°♏	
max. Earth dist.	6420 Jul 30 04:15	12°♏04'56 10.30412 AU	opposition	6426 Apr 15 13:32	27°♏07'28	2°06'41
morning rise	6420 Aug 16 23:01	14°♏18'54	min. Earth dist.	6426 Apr 15 14:27	27°♏07'17	8.21256 AU
	6420 Aug 22 12:59	15°♏	direct	6426 Jun 22 11:09	23°♏39'12	
retrograde	6420 Nov 30 16:36	22°♏19'36		6426 Sep 21 18:37	0°♏	
opposition	6421 Feb 06 23:15	18°♏51'32 -0°35'17	evening set	6426 Oct 06 00:35	1°♏44'17	
min. Earth dist.	6421 Feb 06 21:35	18°♏51'53 8.27456 AU				
direct	6421 Apr 15 00:42	15°♏26'03	conjunction	6426 Oct 23 21:22	4°♏00'02	1°49'42
evening set	6421 Jul 26 09:03	23°♏14'57	minimum elong	6426 Oct 23 21:20	4°♏00'01	1°49'44
			max. Earth dist.	6426 Oct 23 19:38	3°♏59'28	10.23068 AU
conjunction	6421 Aug 13 06:12	25°♏30'20 -0°14'12	morning rise	6426 Nov 10 15:34	6°♏15'01	
minimum elong	6421 Aug 13 06:12	25°♏30'20 0°14'14	retrograde	6427 Feb 21 09:41	14°♏08'25	
behind sun begin	6421 Aug 13 02:54	25°♏29'18	opposition	6427 Apr 29 06:36	10°♏43'31	2°23'52
behind sun end	6421 Aug 13 09:30	25°♏31'22	min. Earth dist.	6427 Apr 29 07:47	10°♏43'16	8.25517 AU
max. Earth dist.	6421 Aug 13 07:29	25°♏30'44 10.24847 AU	direct	6427 Jul 06 12:28	7°♏15'20	
morning rise	6421 Aug 31 05:44	27°♏46'31		6427 Oct 17 21:25	15°♏	
	6421 Sep 18 16:58	0°♏	evening set	6427 Oct 20 10:31	15°♏18'55	
retrograde	6421 Dec 14 16:53	5°♏49'22				
asc. node	6422 Feb 12 05:37	3°♏01'40	conjunction	6427 Nov 07 04:31	17°♏33'12	2°00'26
opposition	6422 Feb 20 13:45	2°♏21'16 0°00'49	minimum elong	6427 Nov 07 04:30	17°♏33'11	2°00'28
min. Earth dist.	6422 Feb 20 12:50	2°♏21'27 8.22604 AU	max. Earth dist.	6427 Nov 07 02:23	17°♏32'31	10.28074 AU
	6422 Mar 24 13:15	30°♏	morning rise	6427 Nov 24 19:11	19°♏46'30	
direct	6422 Apr 28 14:37	28°♏54'50	retrograde	6428 Mar 05 23:21	27°♏34'24	
	6422 Jun 02 08:26	0°♏	opposition	6428 May 11 21:29	24°♏10'30	2°32'55
evening set	6422 Aug 09 16:12	6°♏49'16	min. Earth dist.	6428 May 11 23:29	24°♏10'06	8.31216 AU
			direct	6428 Jul 19 12:46	20°♏42'36	
conjunction	6422 Aug 27 15:35	9°♏05'55 0°15'18	evening set	6428 Nov 02 14:34	28°♏43'05	
minimum elong	6422 Aug 27 15:34	9°♏05'55 0°15'16		6428 Nov 12 21:00	0°♏	
behind sun begin	6422 Aug 27 13:39	9°♏05'18				
behind sun end	6422 Aug 27 17:29	9°♏06'31	conjunction	6428 Nov 20 05:30	0°♏55'38	2°04'29
max. Earth dist.	6422 Aug 27 15:25	9°♏05'52 10.20789 AU	minimum elong	6428 Nov 20 05:29	0°♏55'38	2°04'32
morning rise	6422 Sep 14 16:33	11°♏23'05	max. Earth dist.	6428 Nov 20 02:20	0°♏54'38	10.34331 AU

morning rise	6428 Dec 07 16:42	3°♊07'06		morning rise	6435 Feb 22 00:51	18°♋41'14	
retrograde	6429 Mar 19 06:19	10°♊48'57		retrograde	6435 Jun 02 08:25	25°♋54'23	
opposition	6429 May 25 09:36	7°♊26'06	2°33'38	opposition	6435 Aug 10 14:46	22°♋35'20	0°25'27
min. Earth dist.	6429 May 25 12:38	7°♊25'29	8.37923 AU	min. Earth dist.	6435 Aug 10 16:08	22°♋35'05	8.79207 AU
direct	6429 Aug 02 11:47	3°♊58'39		direct	6435 Oct 20 04:58	19°♋13'04	
evening set	6429 Nov 16 11:36	11°♊54'46		evening set	6436 Jan 31 08:48	26°♋34'31	
conjunction	6429 Dec 03 23:22	14°♊05'30	2°01'55	conjunction	6436 Feb 17 06:08	28°♋36'07	0°07'42
minimum elong	6429 Dec 03 23:23	14°♊05'31	2°01'58	minimum elong	6436 Feb 17 06:08	28°♋36'07	0°07'43
max. Earth dist.	6429 Dec 03 18:57	14°♊04'07	10.41375 AU	behind sun begin	6436 Feb 16 23:46	28°♋34'13	
morning rise	6429 Dec 21 07:19	16°♊15'05		behind sun end	6436 Feb 17 12:29	28°♋38'01	
retrograde	6430 Apr 01 08:40	23°♊50'52		max. Earth dist.	6436 Feb 17 04:48	28°♋35'44	10.81576 AU
opposition	6430 Jun 07 18:30	20°♊29'02	2°26'20		6436 Feb 28 20:40	0°♋	
min. Earth dist.	6430 Jun 07 22:01	20°♊28'20	8.45188 AU	morning rise	6436 Mar 05 01:33	0°♋37'08	
direct	6430 Aug 16 06:35	17°♊02'18		desc. node	6436 Jun 07 13:23	7°♋46'38	
evening set	6430 Nov 30 00:53	24°♊53'09		retrograde	6436 Jun 13 15:13	7°♋48'32	
conjunction	6430 Dec 17 09:46	27°♊02'07	1°53'08	opposition	6436 Aug 22 05:23	4°♋29'26	-0°06'23
minimum elong	6430 Dec 17 09:48	27°♊02'07	1°53'11	min. Earth dist.	6436 Aug 22 05:25	4°♋29'26	8.83615 AU
max. Earth dist.	6430 Dec 17 04:59	27°♊00'37	10.48812 AU	direct	6436 Oct 31 20:50	1°♋07'57	
morning rise	6431 Jan 03 14:47	29°♊09'53		evening set	6437 Feb 11 08:46	8°♋24'57	
	6431 Jan 10 12:47	0°♋		conjunction	6437 Feb 28 04:25	10°♋25'36	-0°18'11
retrograde	6431 Apr 14 07:13	6°♋39'53		minimum elong	6437 Feb 28 04:24	10°♋25'36	0°18'10
opposition	6431 Jun 21 00:09	3°♋18'57	2°11'48	max. Earth dist.	6437 Feb 28 04:49	10°♋25'43	10.85337 AU
min. Earth dist.	6431 Jun 21 03:08	3°♋18'22	8.52680 AU	morning rise	6437 Mar 16 22:38	12°♋25'51	
	6431 Aug 18 04:15	30°♋♊		retrograde	6437 Jun 25 20:52	19°♋36'40	
direct	6431 Aug 29 20:30	29°♊53'05		opposition	6437 Sep 03 18:27	16°♋17'22	-0°37'40
	6431 Sep 10 12:05	0°♋		min. Earth dist.	6437 Sep 03 17:15	16°♋17'35	8.86710 AU
evening set	6431 Dec 13 06:19	7°♋38'01		direct	6437 Nov 13 06:48	12°♋56'37	
conjunction	6431 Dec 30 12:38	9°♋45'17	1°38'53	evening set	6438 Feb 23 05:50	20°♋10'06	
minimum elong	6431 Dec 30 12:40	9°♋45'18	1°38'55	conjunction	6438 Mar 11 23:57	22°♋10'01	-0°43'04
max. Earth dist.	6431 Dec 30 08:45	9°♋44'05	10.56348 AU	minimum elong	6438 Mar 11 23:56	22°♋10'01	0°43'03
morning rise	6432 Jan 16 15:02	11°♋51'24		max. Earth dist.	6438 Mar 12 01:22	22°♋10'26	10.87707 AU
retrograde	6432 Apr 26 00:55	19°♋16'02		morning rise	6438 Mar 28 17:23	24°♋09'47	
opposition	6432 Jul 03 02:27	15°♋55'51	1°51'07		6438 May 28 07:05	0°♋	
min. Earth dist.	6432 Jul 03 04:49	15°♋55'24	8.60116 AU	retrograde	6438 Jul 08 02:03	1°♋21'13	
direct	6432 Sep 11 06:06	12°♋30'55			6438 Aug 18 23:20	30°♋♋	
evening set	6432 Dec 25 04:30	20°♋09'40		opposition	6438 Sep 16 06:27	28°♋01'33	-1°07'12
conjunction	6433 Jan 11 08:23	22°♋15'18	1°20'06	min. Earth dist.	6438 Sep 16 04:55	28°♋01'50	8.88374 AU
minimum elong	6433 Jan 11 08:25	22°♋15'19	1°20'08	direct	6438 Nov 25 14:37	24°♋41'23	
max. Earth dist.	6433 Jan 11 05:29	22°♋14'25	10.63682 AU		6439 Feb 18 14:23	0°♋	
morning rise	6433 Jan 28 08:27	24°♋19'52		evening set	6439 Mar 07 01:30	1°♋52'28	
	6433 Mar 25 09:04	0°♋		conjunction	6439 Mar 23 18:23	3°♋51'56	-1°06'05
retrograde	6433 May 08 15:39	1°♋39'46		minimum elong	6439 Mar 23 18:21	3°♋51'56	1°06'05
	6433 Jun 23 06:57	30°♋♋		max. Earth dist.	6439 Mar 23 19:50	3°♋52'22	10.88598 AU
opposition	6433 Jul 16 01:29	28°♋20'11	1°25'35	morning rise	6439 Apr 09 11:34	5°♋51'30	
min. Earth dist.	6433 Jul 16 03:37	28°♋19'47	8.67205 AU	retrograde	6439 Jul 20 08:34	13°♋04'37	
direct	6433 Sep 24 10:22	24°♋56'11		opposition	6439 Sep 28 17:47	9°♋44'29	-1°33'53
	6433 Dec 16 04:26	0°♋		min. Earth dist.	6439 Sep 28 16:04	9°♋44'49	8.88537 AU
evening set	6434 Jan 06 19:50	2°♋28'45		direct	6439 Dec 07 20:29	6°♋24'45	
conjunction	6434 Jan 23 21:19	4°♋32'53	0°57'54	evening set	6440 Mar 17 20:44	13°♋34'32	
minimum elong	6434 Jan 23 21:21	4°♋32'53	0°57'56	conjunction	6440 Apr 03 12:57	15°♋33'53	-1°26'20
max. Earth dist.	6434 Jan 23 18:52	4°♋32'08	10.70516 AU	minimum elong	6440 Apr 03 12:55	15°♋33'52	1°26'21
morning rise	6434 Feb 09 19:31	6°♋36'03		max. Earth dist.	6440 Apr 03 14:54	15°♋34'28	10.87967 AU
retrograde	6434 May 21 02:15	13°♋52'04		morning rise	6440 Apr 20 06:16	17°♋33'33	
opposition	6434 Jul 28 21:35	10°♋32'52	0°56'34	retrograde	6440 Jul 31 15:44	24°♋49'27	
min. Earth dist.	6434 Jul 28 23:43	10°♋32'28	8.73659 AU	opposition	6440 Oct 10 05:26	21°♋28'41	-1°56'41
direct	6434 Oct 07 09:18	7°♋09'46		min. Earth dist.	6440 Oct 10 02:53	21°♋29'10	8.87175 AU
evening set	6435 Jan 19 04:51	14°♋36'28		direct	6440 Dec 19 01:47	18°♋09'16	
	6435 Jan 22 11:48	15°♋		evening set	6441 Mar 29 16:40	25°♋18'49	
conjunction	6435 Feb 05 04:06	16°♋39'14	0°33'23	conjunction	6441 Apr 15 08:55	27°♋18'22	-1°43'01
minimum elong	6435 Feb 05 04:07	16°♋39'14	0°33'24	minimum elong	6441 Apr 15 08:53	27°♋18'21	1°43'03
max. Earth dist.	6435 Feb 05 01:44	16°♋38'30	10.76567 AU	max. Earth dist.	6441 Apr 15 12:28	27°♋19'26	10.85826 AU

morning rise	6441 May 02 02:45	29° $\Upsilon$ 18'26	conjunction	6447 Jun 28 07:03	10° $\mathfrak{C}$ 36'40	-1°37'47
	6441 May 08 01:13	0° $\mathfrak{C}$	minimum elong	6447 Jun 28 07:06	10° $\mathfrak{C}$ 36'41	1°37'50
retrograde	6441 Aug 13 03:39	6° $\mathfrak{C}$ 38'06	max. Earth dist.	6447 Jun 28 11:35	10° $\mathfrak{C}$ 38'04	10.50166 AU
opposition	6441 Oct 22 18:03	3° $\mathfrak{C}$ 16'35 -2°14'43	morning rise	6447 Jul 15 18:24	12° $\mathfrak{C}$ 46'00	
min. Earth dist.	6441 Oct 22 14:14	3° $\mathfrak{C}$ 17'18 8.84334 AU	retrograde	6447 Oct 29 13:25	20° $\mathfrak{C}$ 36'05	
	6441 Dec 23 23:25	30° $\mathfrak{K}$ $\Upsilon$	opposition	6448 Jan 06 20:28	17° $\mathfrak{C}$ 09'48	-1°49'08
direct	6441 Dec 31 07:19	29° $\Upsilon$ 57'18	min. Earth dist.	6448 Jan 06 17:00	17° $\mathfrak{C}$ 10'29	8.46522 AU
	6442 Jan 07 13:22	0° $\mathfrak{C}$	direct	6448 Mar 14 07:01	13° $\mathfrak{C}$ 47'30	
evening set	6442 Apr 10 14:46	7° $\mathfrak{C}$ 07'39	evening set	6448 Jun 23 06:09	21° $\mathfrak{C}$ 20'51	
conjunction	6442 Apr 27 07:39	9° $\mathfrak{C}$ 07'48 -1°55'26	conjunction	6448 Jul 10 17:43	23° $\mathfrak{C}$ 31'06	-1°17'56
minimum elong	6442 Apr 27 07:37	9° $\mathfrak{C}$ 07'47 1°55'29	minimum elong	6448 Jul 10 17:45	23° $\mathfrak{C}$ 31'07	1°17'59
max. Earth dist.	6442 Apr 27 11:59	9° $\mathfrak{C}$ 09'06 10.82262 AU	max. Earth dist.	6448 Jul 10 20:33	23° $\mathfrak{C}$ 31'59	10.42823 AU
morning rise	6442 May 14 02:46	11° $\mathfrak{C}$ 08'39	morning rise	6448 Jul 28 09:18	25° $\mathfrak{C}$ 42'35	
	6442 Jun 18 14:04	15° $\mathfrak{C}$		6448 Sep 04 15:38	0° $\mathfrak{Q}$	
retrograde	6442 Aug 25 19:29	18° $\mathfrak{C}$ 32'43	retrograde	6448 Nov 11 06:36	3° $\mathfrak{Q}$ 36'59	
opposition	6442 Nov 04 08:04	15° $\mathfrak{C}$ 10'25 -2°27'09	opposition	6449 Jan 19 03:20	0° $\mathfrak{Q}$ 10'08	-1°21'54
min. Earth dist.	6442 Nov 04 03:56	15° $\mathfrak{C}$ 11'12 8.80132 AU	min. Earth dist.	6449 Jan 19 01:21	0° $\mathfrak{Q}$ 10'32	8.39300 AU
	6442 Nov 06 15:10	15° $\mathfrak{K}$ $\mathfrak{C}$		6449 Jan 21 06:19	30° $\mathfrak{K}$ $\mathfrak{C}$	
direct	6443 Jan 12 11:07	11° $\mathfrak{C}$ 51'05	direct	6449 Mar 27 08:07	26° $\mathfrak{C}$ 46'48	
	6443 Mar 16 03:29	15° $\mathfrak{C}$		6449 May 28 04:54	0° $\mathfrak{Q}$	
evening set	6443 Apr 22 16:03	19° $\mathfrak{C}$ 03'17	evening set	6449 Jul 06 19:45	4° $\mathfrak{Q}$ 25'57	
conjunction	6443 May 09 10:14	21° $\mathfrak{C}$ 04'22 -2°02'59	conjunction	6449 Jul 24 11:32	6° $\mathfrak{Q}$ 38'19	-0°53'47
minimum elong	6443 May 09 10:13	21° $\mathfrak{C}$ 04'22 2°03'01	minimum elong	6449 Jul 24 11:35	6° $\mathfrak{Q}$ 38'20	0°53'49
max. Earth dist.	6443 May 09 14:17	21° $\mathfrak{C}$ 05'36 10.77429 AU	max. Earth dist.	6449 Jul 24 12:51	6° $\mathfrak{Q}$ 38'43	10.35868 AU
morning rise	6443 May 26 07:28	23° $\mathfrak{C}$ 06'22	morning rise	6449 Aug 11 07:01	8° $\mathfrak{Q}$ 51'49	
	6443 Aug 11 17:50	0° $\mathfrak{I}$		6449 Oct 09 09:07	15° $\mathfrak{Q}$	
retrograde	6443 Sep 07 13:11	0° $\mathfrak{I}$ 35'25	retrograde	6449 Nov 25 01:45	16° $\mathfrak{Q}$ 49'53	
	6443 Oct 04 14:39	30° $\mathfrak{K}$ $\mathfrak{C}$		6450 Jan 11 11:02	15° $\mathfrak{K}$ $\mathfrak{Q}$	
opposition	6443 Nov 17 00:15	27° $\mathfrak{C}$ 12'17 -2°33'19	opposition	6450 Feb 01 13:15	13° $\mathfrak{Q}$ 22'39	-0°49'54
min. Earth dist.	6443 Nov 16 20:28	27° $\mathfrak{C}$ 13'00 8.74741 AU	min. Earth dist.	6450 Feb 01 12:30	13° $\mathfrak{Q}$ 22'48	8.32645 AU
direct	6444 Jan 24 18:26	23° $\mathfrak{C}$ 52'41	direct	6450 Apr 09 15:56	9° $\mathfrak{Q}$ 58'14	
	6444 Apr 24 06:44	0° $\mathfrak{I}$		6450 Jun 27 17:19	15° $\mathfrak{Q}$	
evening set	6444 May 03 21:25	1° $\mathfrak{I}$ 07'42	evening set	6450 Jul 20 16:45	17° $\mathfrak{Q}$ 43'23	
conjunction	6444 May 20 17:45	3° $\mathfrak{I}$ 10'05 -2°05'11	conjunction	6450 Aug 07 12:17	19° $\mathfrak{Q}$ 57'40	-0°26'27
minimum elong	6444 May 20 17:45	3° $\mathfrak{I}$ 10'05 2°05'13	minimum elong	6450 Aug 07 12:18	19° $\mathfrak{Q}$ 57'40	0°26'29
max. Earth dist.	6444 May 20 21:41	3° $\mathfrak{I}$ 11'17 10.71531 AU	max. Earth dist.	6450 Aug 07 12:34	19° $\mathfrak{Q}$ 57'46	10.29672 AU
morning rise	6444 Jun 06 17:45	5° $\mathfrak{I}$ 13'33	morning rise	6450 Aug 25 10:45	22° $\mathfrak{Q}$ 12'52	
retrograde	6444 Sep 19 11:55	12° $\mathfrak{I}$ 47'57		6450 Nov 23 00:32	0° $\mathfrak{N}$	
opposition	6444 Nov 28 18:56	9° $\mathfrak{I}$ 23'59 -2°32'44	retrograde	6450 Dec 08 23:37	0° $\mathfrak{N}$ 13'40	
min. Earth dist.	6444 Nov 28 15:21	9° $\mathfrak{I}$ 24'40 8.68398 AU		6450 Dec 25 00:48	30° $\mathfrak{K}$ $\mathfrak{Q}$	
direct	6445 Feb 05 04:49	6° $\mathfrak{I}$ 03'57	opposition	6451 Feb 15 01:50	26° $\mathfrak{Q}$ 46'13	-0°14'44
evening set	6445 May 16 07:55	13° $\mathfrak{I}$ 22'35	min. Earth dist.	6451 Feb 15 01:43	26° $\mathfrak{Q}$ 46'15	8.26987 AU
conjunction	6445 Jun 02 07:21	15° $\mathfrak{I}$ 26'37 -2°01'44	direct	6451 Apr 23 03:42	23° $\mathfrak{Q}$ 20'47	
minimum elong	6445 Jun 02 07:22	15° $\mathfrak{I}$ 26'38 2°01'46	asc. node	6451 Jul 18 14:00	29° $\mathfrak{Q}$ 13'36	
max. Earth dist.	6445 Jun 02 12:02	15° $\mathfrak{I}$ 28'03 10.64827 AU	evening set	6451 Jul 25 02:22	0° $\mathfrak{N}$	
morning rise	6445 Jun 19 10:42	17° $\mathfrak{I}$ 31'51		6451 Aug 03 20:23	1° $\mathfrak{N}$ 11'41	
retrograde	6445 Oct 02 15:49	25° $\mathfrak{I}$ 11'43	conjunction	6451 Aug 21 18:47	3° $\mathfrak{N}$ 27'30	0°02'43
opposition	6445 Dec 11 16:22	21° $\mathfrak{I}$ 46'54 -2°25'06	minimum elong	6451 Aug 21 18:47	3° $\mathfrak{N}$ 27'30	0°02'41
min. Earth dist.	6445 Dec 11 12:26	21° $\mathfrak{I}$ 47'40 8.61381 AU	behind sun begin	6451 Aug 21 11:30	3° $\mathfrak{N}$ 25'13	
direct	6446 Feb 17 17:36	18° $\mathfrak{I}$ 26'17	behind sun end	6451 Aug 22 02:05	3° $\mathfrak{N}$ 29'48	
evening set	6446 May 29 00:26	25° $\mathfrak{I}$ 49'16	max. Earth dist.	6451 Aug 21 18:43	3° $\mathfrak{N}$ 27'29	10.24675 AU
conjunction	6446 Jun 15 03:39	27° $\mathfrak{I}$ 55'14 -1°52'33	morning rise	6451 Sep 08 19:06	5° $\mathfrak{N}$ 43'57	
minimum elong	6446 Jun 15 03:41	27° $\mathfrak{I}$ 55'15 1°52'35	retrograde	6451 Dec 23 00:24	13° $\mathfrak{N}$ 46'19	
max. Earth dist.	6446 Jun 15 08:47	27° $\mathfrak{I}$ 56'49 10.57605 AU	opposition	6452 Feb 28 16:53	10° $\mathfrak{N}$ 18'50	0°21'40
morning rise	6446 Jul 02 10:50	0° $\mathfrak{C}$ 02'27	min. Earth dist.	6452 Feb 28 16:51	10° $\mathfrak{N}$ 18'51	8.22741 AU
	6446 Jul 02 02:42	0° $\mathfrak{C}$	direct	6452 May 05 19:04	6° $\mathfrak{N}$ 52'27	
retrograde	6446 Oct 16 00:04	7° $\mathfrak{C}$ 47'38	evening set	6452 Aug 17 05:23	14° $\mathfrak{N}$ 48'28	
opposition	6446 Dec 24 16:51	4° $\mathfrak{C}$ 22'02 -2°10'27	conjunction	6452 Sep 04 05:29	17° $\mathfrak{N}$ 05'16	0°31'51
min. Earth dist.	6446 Dec 24 12:46	4° $\mathfrak{C}$ 22'50 8.53985 AU	minimum elong	6452 Sep 04 05:27	17° $\mathfrak{N}$ 05'15	0°31'50
direct	6447 Mar 02 10:40	1° $\mathfrak{C}$ 00'39	max. Earth dist.	6452 Sep 04 04:54	17° $\mathfrak{N}$ 05'05	10.21236 AU
evening set	6447 Jun 10 23:45	8° $\mathfrak{C}$ 28'35	morning rise	6452 Sep 22 06:23	19° $\mathfrak{N}$ 22'23	
			retrograde	6453 Jan 05 01:47	27° $\mathfrak{N}$ 24'58	

opposition	6453 Mar 13 09:39	23° $\mathbb{M}$ 57'39	0°57'09	retrograde	6459 Mar 26 20:32	18° $\mathbb{X}$ 16'54	
min. Earth dist.	6453 Mar 13 10:06	23° $\mathbb{M}$ 57'34	8.20196 AU	opposition	6459 Jun 02 03:32	14° $\mathbb{X}$ 54'07	2°30'41
direct	6453 May 19 14:26	20° $\mathbb{M}$ 30'25		min. Earth dist.	6459 Jun 02 05:55	14° $\mathbb{X}$ 53'38	8.41189 AU
evening set	6453 Aug 31 18:25	28° $\mathbb{M}$ 30'37		direct	6459 Aug 10 11:42	11° $\mathbb{X}$ 26'36	
	6453 Sep 12 13:07	0° $\underline{\mathbb{L}}$		evening set	6459 Nov 24 07:50	19° $\mathbb{X}$ 19'40	
conjunction	6453 Sep 18 18:51	0° $\underline{\mathbb{L}}$ 47'47	0°59'23	conjunction	6459 Dec 11 18:13	21° $\mathbb{X}$ 29'29	1°57'53
minimum elong	6453 Sep 18 18:49	0° $\underline{\mathbb{L}}$ 47'46	0°59'23	minimum elong	6459 Dec 11 18:14	21° $\mathbb{X}$ 29'29	1°57'56
max. Earth dist.	6453 Sep 18 17:11	0° $\underline{\mathbb{L}}$ 47'15	10.19580 AU	max. Earth dist.	6459 Dec 11 15:07	21° $\mathbb{X}$ 28'30	10.44789 AU
morning rise	6453 Oct 06 19:05	3° $\underline{\mathbb{L}}$ 04'57		morning rise	6459 Dec 29 00:28	23° $\mathbb{X}$ 38'04	
retrograde	6454 Jan 19 01:21	11° $\underline{\mathbb{L}}$ 06'17			6460 Mar 02 08:37	0° $\mathbb{Z}$	
opposition	6454 Mar 27 03:14	7° $\underline{\mathbb{L}}$ 39'24	1°29'31	retrograde	6460 Apr 07 20:46	1° $\mathbb{Z}$ 10'27	
min. Earth dist.	6454 Mar 27 04:39	7° $\underline{\mathbb{L}}$ 39'06	8.19510 AU		6460 May 15 00:08	30° $\mathbb{R}$ $\mathbb{X}$	
direct	6454 Jun 02 13:50	4° $\underline{\mathbb{L}}$ 11'29		opposition	6460 Jun 14 10:05	27° $\mathbb{X}$ 48'38	2°19'18
evening set	6454 Sep 15 09:06	12° $\underline{\mathbb{L}}$ 14'34		min. Earth dist.	6460 Jun 14 12:54	27° $\mathbb{X}$ 48'05	8.48735 AU
				direct	6460 Aug 23 02:27	24° $\mathbb{X}$ 21'54	
conjunction	6454 Oct 03 08:38	14° $\underline{\mathbb{L}}$ 31'28	1°23'35		6460 Nov 18 08:21	0° $\mathbb{Z}$	
minimum elong	6454 Oct 03 08:35	14° $\underline{\mathbb{L}}$ 31'27	1°23'36	evening set	6460 Dec 06 16:27	2° $\mathbb{Z}$ 09'15	
max. Earth dist.	6454 Oct 03 05:45	14° $\underline{\mathbb{L}}$ 30'33	10.19809 AU				
morning rise	6454 Oct 21 07:02	16° $\underline{\mathbb{L}}$ 48'04		conjunction	6460 Dec 23 23:58	4° $\mathbb{Z}$ 17'17	1°46'01
retrograde	6455 Feb 01 22:19	24° $\underline{\mathbb{L}}$ 46'47		minimum elong	6460 Dec 23 24:00	4° $\mathbb{Z}$ 17'17	1°46'04
opposition	6455 Apr 09 20:58	21° $\underline{\mathbb{L}}$ 20'31	1°56'47	max. Earth dist.	6460 Dec 23 20:29	4° $\mathbb{Z}$ 16'12	10.52533 AU
min. Earth dist.	6455 Apr 09 23:21	21° $\underline{\mathbb{L}}$ 20'01	8.20719 AU	morning rise	6461 Jan 10 03:32	6° $\mathbb{Z}$ 24'07	
direct	6455 Jun 16 14:45	17° $\underline{\mathbb{L}}$ 52'09		retrograde	6461 Apr 20 14:56	13° $\mathbb{Z}$ 50'43	
evening set	6455 Sep 29 22:52	25° $\underline{\mathbb{L}}$ 56'28		opposition	6461 Jun 27 13:22	10° $\mathbb{Z}$ 29'49	2°01'16
				min. Earth dist.	6461 Jun 27 16:10	10° $\mathbb{Z}$ 29'17	8.56523 AU
conjunction	6455 Oct 17 20:32	28° $\underline{\mathbb{L}}$ 12'35	1°43'00	direct	6461 Sep 05 13:53	7° $\mathbb{Z}$ 04'03	
minimum elong	6455 Oct 17 20:30	28° $\underline{\mathbb{L}}$ 12'34	1°43'01	evening set	6461 Dec 19 17:19	14° $\mathbb{Z}$ 45'13	
max. Earth dist.	6455 Oct 17 16:37	28° $\underline{\mathbb{L}}$ 11'20	10.21902 AU				
	6455 Oct 31 22:43	0° $\mathbb{M}$		conjunction	6462 Jan 05 22:10	16° $\mathbb{Z}$ 51'30	1°29'11
morning rise	6455 Nov 04 16:16	0° $\mathbb{M}$ 28'05		minimum elong	6462 Jan 05 22:12	16° $\mathbb{Z}$ 51'31	1°29'14
retrograde	6456 Feb 15 16:20	8° $\mathbb{M}$ 22'59		max. Earth dist.	6462 Jan 05 18:48	16° $\mathbb{Z}$ 50'28	10.60332 AU
opposition	6456 Apr 22 13:49	4° $\mathbb{M}$ 57'27	2°17'18	morning rise	6462 Jan 22 23:24	18° $\mathbb{Z}$ 56'42	
min. Earth dist.	6456 Apr 22 16:45	4° $\mathbb{M}$ 56'51	8.23730 AU	retrograde	6462 May 03 05:34	26° $\mathbb{Z}$ 18'11	
direct	6456 Jun 29 16:28	1° $\mathbb{M}$ 28'55		opposition	6462 Jul 10 13:15	22° $\mathbb{Z}$ 58'04	1°37'47
evening set	6456 Oct 13 09:52	9° $\mathbb{M}$ 32'46		min. Earth dist.	6462 Jul 10 15:15	22° $\mathbb{Z}$ 57'40	8.64174 AU
				direct	6462 Sep 18 21:06	19° $\mathbb{Z}$ 33'22	
conjunction	6456 Oct 31 05:03	11° $\mathbb{M}$ 47'38	1°56'32	evening set	6463 Jan 01 10:58	27° $\mathbb{Z}$ 08'13	
minimum elong	6456 Oct 31 05:01	11° $\mathbb{M}$ 47'38	1°56'35				
max. Earth dist.	6456 Oct 31 00:41	11° $\mathbb{M}$ 46'15	10.25719 AU	conjunction	6463 Jan 18 13:29	29° $\mathbb{Z}$ 12'55	1°08'26
morning rise	6456 Nov 17 21:31	14° $\mathbb{M}$ 01'40		minimum elong	6463 Jan 18 13:31	29° $\mathbb{Z}$ 12'56	1°08'28
	6456 Nov 25 19:04	15° $\mathbb{M}$		max. Earth dist.	6463 Jan 18 11:08	29° $\mathbb{Z}$ 12'12	10.67815 AU
retrograde	6457 Feb 28 06:08	21° $\mathbb{M}$ 51'40			6463 Jan 24 23:27	0° $\approx$	
opposition	6457 May 06 04:49	18° $\mathbb{M}$ 27'00	2°30'01	morning rise	6463 Feb 04 12:39	1° $\approx$ 16'37	
min. Earth dist.	6457 May 06 07:38	18° $\mathbb{M}$ 26'25	8.28342 AU	retrograde	6463 May 15 17:32	8° $\approx$ 33'46	
	6457 Jul 08 12:14	15° $\mathbb{R}$ $\mathbb{M}$		opposition	6463 Jul 23 09:51	5° $\approx$ 14'16	1°10'13
direct	6457 Jul 13 17:38	14° $\mathbb{M}$ 58'32		min. Earth dist.	6463 Jul 23 10:39	5° $\approx$ 14'07	8.71339 AU
	6457 Jul 18 23:13	15° $\mathbb{M}$		direct	6463 Oct 01 21:43	1° $\approx$ 50'41	
evening set	6457 Oct 27 15:59	23° $\mathbb{M}$ 00'15		evening set	6464 Jan 13 22:11	9° $\approx$ 19'28	
conjunction	6457 Nov 14 08:20	25° $\mathbb{M}$ 13'34	2°03'35	conjunction	6464 Jan 30 22:35	11° $\approx$ 22'44	0°44'52
minimum elong	6457 Nov 14 08:19	25° $\mathbb{M}$ 13'34	2°03'38	minimum elong	6464 Jan 30 22:37	11° $\approx$ 22'45	0°44'53
max. Earth dist.	6457 Nov 14 04:16	25° $\mathbb{M}$ 12'17	10.31018 AU	max. Earth dist.	6464 Jan 30 21:47	11° $\approx$ 22'30	10.74639 AU
morning rise	6457 Dec 01 21:15	27° $\mathbb{M}$ 25'52		morning rise	6464 Feb 16 19:56	13° $\approx$ 25'08	
	6457 Dec 23 10:58	0° $\mathbb{X}$			6464 Mar 01 10:34	15° $\approx$	
retrograde	6458 Mar 13 15:01	5° $\mathbb{X}$ 10'17		retrograde	6464 May 27 02:28	20° $\approx$ 38'55	
opposition	6458 May 19 17:36	1° $\mathbb{X}$ 46'31	2°34'27	opposition	6464 Aug 04 03:43	17° $\approx$ 19'53	0°39'56
min. Earth dist.	6458 May 19 20:07	1° $\mathbb{X}$ 46'01	8.34271 AU	min. Earth dist.	6464 Aug 04 03:55	17° $\approx$ 19'50	8.77698 AU
	6458 Jun 12 01:59	30° $\mathbb{R}$ $\mathbb{M}$			6464 Sep 07 06:16	15° $\mathbb{R}$ $\approx$	
direct	6458 Jul 27 16:59	28° $\mathbb{M}$ 18'25		direct	6464 Oct 13 17:46	13° $\approx$ 57'23	
	6458 Sep 10 15:11	0° $\mathbb{X}$			6464 Nov 18 14:26	15° $\approx$	
evening set	6458 Nov 10 15:32	6° $\mathbb{X}$ 16'25		evening set	6465 Jan 25 04:05	21° $\approx$ 20'38	
conjunction	6458 Nov 28 04:53	8° $\mathbb{X}$ 28'01	2°03'57	conjunction	6465 Feb 11 02:21	23° $\approx$ 22'37	0°19'37
minimum elong	6458 Nov 28 04:54	8° $\mathbb{X}$ 28'01	2°04'00	minimum elong	6465 Feb 11 02:22	23° $\approx$ 22'37	0°19'38
max. Earth dist.	6458 Nov 28 01:26	8° $\mathbb{X}$ 26'55	10.37490 AU	max. Earth dist.	6465 Feb 11 02:10	23° $\approx$ 22'33	10.80503 AU
morning rise	6458 Dec 15 14:17	10° $\mathbb{X}$ 38'27		morning rise	6465 Feb 27 22:11	25° $\approx$ 23'54	

	6465 Apr 12 16:47	0°♄	minimum elong	6471 Apr 22 04:04	3°♄54'15	1°50'10
retrograde	6465 Jun 08 09:51	2°♄35'25	max. Earth dist.	6471 Apr 22 05:46	3°♄54'45	10.85270 AU
	6465 Aug 07 02:37	30°♄	morning rise	6471 May 08 22:36	5°♄54'37	
opposition	6465 Aug 16 19:14	29°♄16'39 0°08'20	retrograde	6471 Aug 20 07:33	13°♄16'17	
min. Earth dist.	6465 Aug 16 19:19	29°♄16'38 8.82993 AU	opposition	6471 Oct 29 21:12	9°♄54'50	-2°21'57
direct	6465 Oct 26 09:22	25°♄55'09	min. Earth dist.	6471 Oct 29 19:13	9°♄55'12	8.83174 AU
desc. node	6465 Nov 23 12:10	26°♄33'54	direct	6472 Jan 07 04:33	6°♄35'52	
	6466 Jan 08 00:35	0°♄	evening set	6472 Apr 16 11:29	13°♄47'03	
evening set	6466 Feb 06 05:39	3°♄13'35		6472 Apr 26 15:25	15°♄	
conjunction	6466 Feb 23 01:55	5°♄14'29 -0°06'20	conjunction	6472 May 03 04:56	15°♄47'36	-2°00'01
minimum elong	6466 Feb 23 01:54	5°♄14'29 0°06'19	minimum elong	6472 May 03 04:55	15°♄47'35	2°00'03
behind sun begin	6466 Feb 22 19:16	5°♄12'31	max. Earth dist.	6472 May 03 07:37	15°♄48'24	10.80489 AU
behind sun end	6466 Feb 23 08:32	5°♄16'28	morning rise	6472 May 20 01:02	17°♄48'58	
max. Earth dist.	6466 Feb 23 01:47	5°♄14'27 10.85183 AU	retrograde	6472 Aug 31 23:47	25°♄15'36	
morning rise	6466 Mar 11 20:37	7°♄14'55	opposition	6472 Nov 10 12:26	21°♄53'07	-2°31'08
retrograde	6466 Jun 20 14:04	14°♄25'17	min. Earth dist.	6472 Nov 10 09:37	21°♄53'39	8.77765 AU
opposition	6466 Aug 29 08:51	11°♄06'34 -0°23'19	direct	6473 Jan 18 12:11	18°♄33'50	
min. Earth dist.	6466 Aug 29 08:35	11°♄06'37 8.87016 AU	evening set	6473 Apr 28 14:45	25°♄47'29	
direct	6466 Nov 07 21:31	7°♄45'57				
evening set	6467 Feb 18 03:46	15°♄00'28	conjunction	6473 May 15 10:06	27°♄49'14	-2°04'46
conjunction	6467 Mar 06 22:24	17°♄00'30 -0°31'42	minimum elong	6473 May 15 10:06	27°♄49'14	2°04'48
minimum elong	6467 Mar 06 22:23	17°♄00'30 0°31'41	max. Earth dist.	6473 May 15 13:39	27°♄50'19	10.74493 AU
max. Earth dist.	6467 Mar 06 22:53	17°♄00'39 10.88480 AU	morning rise	6473 Jun 01 08:33	29°♄51'58	
morning rise	6467 Mar 23 16:16	19°♄00'18		6473 Jun 02 11:37	0°♄	
retrograde	6467 Jul 02 18:59	26°♄10'45	retrograde	6473 Sep 13 22:05	7°♄23'59	
opposition	6467 Sep 10 21:00	22°♄51'50 -0°53'44	opposition	6473 Nov 23 06:00	4°♄00'26	-2°33'47
min. Earth dist.	6467 Sep 10 19:36	22°♄52'05 8.89575 AU	min. Earth dist.	6473 Nov 23 02:40	4°♄01'04	8.71262 AU
direct	6467 Nov 20 07:56	19°♄31'57	direct	6474 Jan 30 20:15	0°♄40'36	
evening set	6468 Feb 29 23:53	26°♄43'32	evening set	6474 May 10 22:55	7°♄57'36	
conjunction	6468 Mar 17 17:17	28°♄43'00 -0°55'39	conjunction	6474 May 27 20:50	10°♄00'54	-2°03'59
minimum elong	6468 Mar 17 17:16	28°♄42'59 0°55'39	minimum elong	6474 May 27 20:51	10°♄00'54	2°04'01
max. Earth dist.	6468 Mar 17 19:09	28°♄43'33 10.90220 AU	max. Earth dist.	6474 May 27 24:00	10°♄01'52	10.67556 AU
	6468 Mar 28 10:46	0°♄	morning rise	6474 Jun 13 22:29	12°♄05'20	
morning rise	6468 Apr 03 10:25	0°♄42'25	retrograde	6474 Sep 26 23:54	19°♄42'53	
retrograde	6468 Jul 14 02:12	7°♄54'04	opposition	6474 Dec 06 02:07	16°♄18'17	-2°29'29
opposition	6468 Sep 22 08:19	4°♄34'45 -1°21'49	min. Earth dist.	6474 Dec 05 23:17	16°♄18'50	8.63953 AU
min. Earth dist.	6468 Sep 22 06:04	4°♄35'10 8.90513 AU	direct	6475 Feb 12 06:31	12°♄57'43	
direct	6468 Dec 01 14:19	1°♄15'27	evening set	6475 May 23 12:38	20°♄18'56	
evening set	6469 Mar 12 19:10	8°♄25'11	conjunction	6475 Jun 09 13:54	22°♄24'04	-1°57'29
conjunction	6469 Mar 29 11:39	10°♄24'22 -1°17'15	minimum elong	6475 Jun 09 13:56	22°♄24'05	1°57'31
minimum elong	6469 Mar 29 11:37	10°♄24'22 1°17'16	max. Earth dist.	6475 Jun 09 16:32	22°♄24'53	10.59985 AU
max. Earth dist.	6469 Mar 29 13:57	10°♄25'04 10.90275 AU	morning rise	6475 Jun 26 19:21	24°♄30'28	
morning rise	6469 Apr 15 04:34	12°♄23'45		6475 Aug 18 12:47	0°♄	
retrograde	6469 Jul 26 09:03	19°♄37'44	retrograde	6475 Oct 10 04:31	2°♄13'34	
opposition	6469 Oct 04 19:49	16°♄17'52 -1°46'30		6475 Dec 03 07:14	30°♄	
min. Earth dist.	6469 Oct 04 17:33	16°♄18'17 8.89730 AU	opposition	6475 Dec 19 01:22	28°♄47'59	-2°18'07
direct	6469 Dec 13 18:30	12°♄58'54	min. Earth dist.	6475 Dec 18 23:05	28°♄48'26	8.56160 AU
evening set	6470 Mar 24 14:39	20°♄07'59	direct	6476 Feb 24 22:39	25°♄26'31	
conjunction	6470 Apr 10 06:40	22°♄07'15 -1°35'40	evening set	6476 May 10 10:00	0°♄	
minimum elong	6470 Apr 10 06:38	22°♄07'14 1°35'41		6476 Jun 04 08:33	2°♄52'36	
max. Earth dist.	6470 Apr 10 08:22	22°♄07'46 10.88595 AU	conjunction	6476 Jun 21 13:50	4°♄59'50	-1°45'17
morning rise	6470 Apr 27 00:06	24°♄06'56	minimum elong	6476 Jun 21 13:53	4°♄59'51	1°45'20
	6470 Jun 26 22:12	0°♄	max. Earth dist.	6476 Jun 21 16:35	5°♄00'41	10.52108 AU
retrograde	6470 Aug 07 18:57	1°♄24'21	morning rise	6476 Jul 08 23:24	7°♄08'21	
	6470 Sep 19 16:51	30°♄	retrograde	6476 Oct 22 15:16	14°♄56'49	
opposition	6470 Oct 17 07:58	28°♄03'46 -2°06'49	opposition	6476 Dec 31 03:48	11°♄30'19	-1°59'50
min. Earth dist.	6470 Oct 17 06:14	28°♄04'06 8.87233 AU	min. Earth dist.	6476 Dec 31 01:37	11°♄30'45	8.48234 AU
direct	6470 Dec 25 23:42	24°♄44'55	direct	6477 Mar 08 18:20	8°♄07'53	
	6471 Mar 19 18:42	0°♄	evening set	6477 Jun 17 11:35	15°♄39'20	
evening set	6471 Apr 05 11:47	1°♄54'32	conjunction	6477 Jul 04 21:20	17°♄48'48	-1°27'42
conjunction	6471 Apr 22 04:06	3°♄54'15 -1°50'08	minimum elong	6477 Jul 04 21:22	17°♄48'48	1°27'46
			max. Earth dist.	6477 Jul 05 00:33	17°♄49'48	10.44286 AU

morning rise	6477 Jul 22 11:04	19° $\mathfrak{D}$ 59'31		minimum elong	6483 Sep 27 02:23	8° $\mathfrak{D}$ 32'31	1°13'01
retrograde	6477 Nov 05 06:39	27° $\mathfrak{D}$ 52'48		max. Earth dist.	6483 Sep 27 01:15	8° $\mathfrak{D}$ 32'09	10.18582 AU
opposition	6478 Jan 13 09:19	24° $\mathfrak{D}$ 25'33	-1°35'12	morning rise	6483 Oct 15 01:54	10° $\mathfrak{D}$ 49'35	
min. Earth dist.	6478 Jan 13 06:53	24° $\mathfrak{D}$ 26'02	8.40550 AU	retrograde	6484 Jan 26 23:58	18° $\mathfrak{D}$ 50'16	
direct	6478 Mar 21 17:43	21° $\mathfrak{D}$ 02'04		opposition	6484 Apr 03 00:41	15° $\mathfrak{D}$ 23'33	1°45'03
evening set	6478 Jun 30 22:06	28° $\mathfrak{D}$ 39'18		min. Earth dist.	6484 Apr 03 01:14	15° $\mathfrak{D}$ 23'27	8.19239 AU
	6478 Jul 11 17:49	0° $\mathfrak{Q}$		direct	6484 Jun 09 14:43	11° $\mathfrak{D}$ 55'23	
				evening set	6484 Sep 22 17:17	19° $\mathfrak{D}$ 59'48	
conjunction	6478 Jul 18 12:13	0° $\mathfrak{Q}$ 50'58	-1°05'24				
minimum elong	6478 Jul 18 12:16	0° $\mathfrak{Q}$ 50'59	1°05'27	conjunction	6484 Oct 10 16:08	22° $\mathfrak{D}$ 16'29	1°34'46
max. Earth dist.	6478 Jul 18 15:07	0° $\mathfrak{Q}$ 51'53	10.36894 AU	minimum elong	6484 Oct 10 16:05	22° $\mathfrak{D}$ 16'28	1°34'47
morning rise	6478 Aug 05 05:57	3° $\mathfrak{Q}$ 03'49		max. Earth dist.	6484 Oct 10 14:46	22° $\mathfrak{D}$ 16'03	10.20222 AU
retrograde	6478 Nov 19 01:44	11° $\mathfrak{Q}$ 01'10		morning rise	6484 Oct 28 13:10	24° $\mathfrak{D}$ 32'39	
opposition	6479 Jan 26 18:07	7° $\mathfrak{Q}$ 33'23	-1°05'11		6484 Dec 17 04:33	0° $\mathfrak{M}$	
min. Earth dist.	6479 Jan 26 15:56	7° $\mathfrak{Q}$ 33'50	8.33489 AU	retrograde	6485 Feb 08 21:43	2° $\mathfrak{M}$ 30'00	
direct	6479 Apr 03 22:12	4° $\mathfrak{Q}$ 08'50			6485 Apr 05 04:12	30° $\mathfrak{R}$ $\mathfrak{D}$	
evening set	6479 Jul 14 16:00	11° $\mathfrak{Q}$ 51'59		opposition	6485 Apr 16 18:36	29° $\mathfrak{D}$ 04'10	2°08'48
				min. Earth dist.	6485 Apr 16 19:31	29° $\mathfrak{D}$ 03'59	8.21835 AU
conjunction	6479 Aug 01 10:00	14° $\mathfrak{Q}$ 05'42	-0°39'21	direct	6485 Jun 23 15:51	25° $\mathfrak{D}$ 35'53	
minimum elong	6479 Aug 01 10:02	14° $\mathfrak{Q}$ 05'42	0°39'23		6485 Sep 05 19:55	0° $\mathfrak{M}$	
max. Earth dist.	6479 Aug 01 11:51	14° $\mathfrak{Q}$ 06'17	10.30311 AU	evening set	6485 Oct 07 06:44	3° $\mathfrak{M}$ 40'36	
	6479 Aug 08 14:00	15° $\mathfrak{Q}$					
morning rise	6479 Aug 19 07:08	16° $\mathfrak{Q}$ 20'24		conjunction	6485 Oct 25 03:17	5° $\mathfrak{M}$ 56'12	1°51'04
retrograde	6479 Dec 02 23:49	24° $\mathfrak{Q}$ 20'54		minimum elong	6485 Oct 25 03:14	5° $\mathfrak{M}$ 56'11	1°51'06
opposition	6480 Feb 09 05:57	20° $\mathfrak{Q}$ 52'50	-0°31'12	max. Earth dist.	6485 Oct 25 01:23	5° $\mathfrak{M}$ 55'35	10.23667 AU
min. Earth dist.	6480 Feb 09 04:33	20° $\mathfrak{Q}$ 53'07	8.27437 AU	morning rise	6485 Nov 11 21:09	8° $\mathfrak{M}$ 11'00	
direct	6480 Apr 16 07:09	17° $\mathfrak{Q}$ 27'14			6486 Jan 19 06:21	15° $\mathfrak{M}$	
evening set	6480 Jul 27 16:56	25° $\mathfrak{Q}$ 16'13		retrograde	6486 Feb 22 14:44	16° $\mathfrak{M}$ 03'48	
					6486 Mar 29 07:10	15° $\mathfrak{R}$ $\mathfrak{M}$	
conjunction	6480 Aug 14 14:07	27° $\mathfrak{Q}$ 31'36	-0°10'52	opposition	6486 Apr 30 11:16	12° $\mathfrak{M}$ 38'59	2°25'07
minimum elong	6480 Aug 14 14:07	27° $\mathfrak{Q}$ 31'37	0°10'54	min. Earth dist.	6486 Apr 30 13:05	12° $\mathfrak{M}$ 38'37	8.26137 AU
behind sun begin	6480 Aug 14 08:39	27° $\mathfrak{Q}$ 29'54		direct	6486 Jul 07 17:44	9° $\mathfrak{M}$ 10'49	
behind sun end	6480 Aug 14 19:35	27° $\mathfrak{Q}$ 33'20			6486 Oct 03 02:02	15° $\mathfrak{M}$	
max. Earth dist.	6480 Aug 14 14:38	27° $\mathfrak{Q}$ 31'46	10.24913 AU	evening set	6486 Oct 21 16:05	17° $\mathfrak{M}$ 14'04	
morning rise	6480 Sep 01 13:48	29° $\mathfrak{Q}$ 47'47					
	6480 Sep 03 05:12	0° $\mathfrak{M}$		conjunction	6486 Nov 08 09:45	19° $\mathfrak{M}$ 28'10	2°01'05
retrograde	6480 Dec 16 00:08	7° $\mathfrak{M}$ 50'18		minimum elong	6486 Nov 08 09:43	19° $\mathfrak{M}$ 28'09	2°01'08
asc. node	6481 Jan 01 14:44	7° $\mathfrak{M}$ 35'25		max. Earth dist.	6486 Nov 08 06:50	19° $\mathfrak{M}$ 27'14	10.28708 AU
opposition	6481 Feb 21 20:20	4° $\mathfrak{M}$ 22'11	0°04'57	morning rise	6486 Nov 26 00:12	21° $\mathfrak{M}$ 41'19	
min. Earth dist.	6481 Feb 21 20:01	4° $\mathfrak{M}$ 22'15	8.22754 AU	retrograde	6487 Mar 08 02:27	29° $\mathfrak{M}$ 28'39	
direct	6481 Apr 29 21:18	0° $\mathfrak{M}$ 55'38		opposition	6487 May 14 01:52	26° $\mathfrak{M}$ 04'53	2°33'16
evening set	6481 Aug 10 23:59	8° $\mathfrak{M}$ 50'02		min. Earth dist.	6487 May 14 04:26	26° $\mathfrak{M}$ 04'22	8.31873 AU
				direct	6487 Jul 21 18:43	22° $\mathfrak{M}$ 37'02	
conjunction	6481 Aug 28 23:22	11° $\mathfrak{M}$ 06'38	0°18'34		6487 Oct 30 18:16	0° $\mathfrak{X}$	
minimum elong	6481 Aug 28 23:21	11° $\mathfrak{M}$ 06'37	0°18'33	evening set	6487 Nov 04 19:20	0° $\mathfrak{X}$ 37'06	
max. Earth dist.	6481 Aug 28 22:46	11° $\mathfrak{M}$ 06'26	10.21017 AU				
morning rise	6481 Sep 16 00:24	13° $\mathfrak{M}$ 23'44		conjunction	6487 Nov 22 09:56	2° $\mathfrak{X}$ 49'29	2°04'25
retrograde	6481 Dec 30 00:41	21° $\mathfrak{M}$ 26'59		minimum elong	6487 Nov 22 09:56	2° $\mathfrak{X}$ 49'29	2°04'28
opposition	6482 Mar 07 12:46	17° $\mathfrak{M}$ 59'06	0°41'10	max. Earth dist.	6487 Nov 22 06:09	2° $\mathfrak{X}$ 48'18	10.35013 AU
min. Earth dist.	6482 Mar 07 13:10	17° $\mathfrak{M}$ 59'01	8.19717 AU	morning rise	6487 Dec 09 21:01	5° $\mathfrak{X}$ 00'48	
direct	6482 May 13 16:30	14° $\mathfrak{M}$ 31'47		retrograde	6488 Mar 20 09:37	12° $\mathfrak{X}$ 42'08	
evening set	6482 Aug 25 11:44	22° $\mathfrak{M}$ 30'48		opposition	6488 May 26 13:36	9° $\mathfrak{X}$ 19'23	2°33'06
				min. Earth dist.	6488 May 26 16:31	9° $\mathfrak{X}$ 18'48	8.38641 AU
conjunction	6482 Sep 12 12:07	24° $\mathfrak{M}$ 48'01	0°47'05	direct	6488 Aug 03 16:29	5° $\mathfrak{X}$ 52'03	
minimum elong	6482 Sep 12 12:05	24° $\mathfrak{M}$ 48'01	0°47'05	evening set	6488 Nov 17 15:37	13° $\mathfrak{X}$ 47'36	
max. Earth dist.	6482 Sep 12 11:05	24° $\mathfrak{M}$ 47'41	10.18856 AU				
morning rise	6482 Sep 30 13:01	27° $\mathfrak{M}$ 05'26		conjunction	6488 Dec 05 03:13	15° $\mathfrak{X}$ 58'12	2°01'10
	6482 Oct 24 20:57	0° $\mathfrak{D}$		minimum elong	6488 Dec 05 03:14	15° $\mathfrak{X}$ 58'12	2°01'13
retrograde	6483 Jan 13 00:37	5° $\mathfrak{D}$ 08'04		max. Earth dist.	6488 Dec 04 22:53	15° $\mathfrak{X}$ 56'50	10.42131 AU
opposition	6483 Mar 21 06:27	1° $\mathfrak{D}$ 40'40	1°15'15	morning rise	6488 Dec 22 11:02	18° $\mathfrak{X}$ 07'37	
min. Earth dist.	6483 Mar 21 06:57	1° $\mathfrak{D}$ 40'34	8.18515 AU	retrograde	6489 Apr 02 11:37	25° $\mathfrak{X}$ 42'50	
	6483 Apr 11 17:54	30° $\mathfrak{R}$ $\mathfrak{M}$		opposition	6489 Jun 08 21:57	22° $\mathfrak{X}$ 21'03	2°25'00
direct	6483 May 27 15:07	28° $\mathfrak{M}$ 12'49		min. Earth dist.	6489 Jun 09 00:50	22° $\mathfrak{X}$ 20'30	8.45963 AU
	6483 Jul 11 18:46	0° $\mathfrak{D}$		direct	6489 Aug 17 10:44	18° $\mathfrak{X}$ 54'25	
evening set	6483 Sep 09 02:15	6° $\mathfrak{D}$ 15'17		evening set	6489 Dec 01 04:10	26° $\mathfrak{X}$ 44'38	
conjunction	6483 Sep 27 02:25	8° $\mathfrak{D}$ 32'31	1°13'01	conjunction	6489 Dec 18 12:59	28° $\mathfrak{X}$ 53'27	1°51'46



minimum elong	6489 Dec 18 13:01	28° $\mathbb{A}$ 53'28	1°51'49	direct	6495 Nov 02 21:48	2° $\mathbb{H}$ 56'57	
max. Earth dist.	6489 Dec 18 08:53	28° $\mathbb{A}$ 52'11	10.49592 AU	evening set	6496 Feb 13 10:33	10° $\mathbb{H}$ 14'05	
	6489 Dec 27 11:02	0° $\mathbb{B}$					
morning rise	6490 Jan 04 17:47	1° $\mathbb{B}$ 01'05		conjunction	6496 Mar 01 06:10	12° $\mathbb{H}$ 14'47	-0°21'02
retrograde	6490 Apr 15 09:22	8° $\mathbb{B}$ 30'32		minimum elong	6496 Mar 01 06:09	12° $\mathbb{H}$ 14'46	0°21'01
opposition	6490 Jun 22 03:13	5° $\mathbb{B}$ 09'40	2°09'46	max. Earth dist.	6496 Mar 01 06:23	12° $\mathbb{H}$ 14'50	10.84921 AU
min. Earth dist.	6490 Jun 22 05:55	5° $\mathbb{B}$ 09'08	8.53423 AU	morning rise	6496 Mar 18 00:22	14° $\mathbb{H}$ 15'06	
direct	6490 Aug 31 00:28	1° $\mathbb{B}$ 43'54		retrograde	6496 Jun 26 23:47	21° $\mathbb{H}$ 26'23	
evening set	6490 Dec 14 08:55	9° $\mathbb{B}$ 28'14		opposition	6496 Sep 04 21:32	18° $\mathbb{H}$ 07'02	-0°41'06
				min. Earth dist.	6496 Sep 04 21:05	18° $\mathbb{H}$ 07'07	8.86172 AU
conjunction	6490 Dec 31 15:08	11° $\mathbb{B}$ 35'22	1°37'00	direct	6496 Nov 14 09:11	14° $\mathbb{H}$ 46'15	
minimum elong	6490 Dec 31 15:10	11° $\mathbb{B}$ 35'22	1°37'02	evening set	6497 Feb 24 08:03	22° $\mathbb{H}$ 00'04	
max. Earth dist.	6490 Dec 31 11:38	11° $\mathbb{B}$ 34'17	10.57044 AU				
morning rise	6491 Jan 17 17:19	13° $\mathbb{B}$ 41'20		conjunction	6497 Mar 13 02:02	24° $\mathbb{H}$ 00'03	-0°45'46
retrograde	6491 Apr 28 04:04	21° $\mathbb{B}$ 05'34		minimum elong	6497 Mar 13 02:00	24° $\mathbb{H}$ 00'02	0°45'46
opposition	6491 Jul 05 05:16	17° $\mathbb{B}$ 45'28	1°48'31	max. Earth dist.	6497 Mar 13 02:24	24° $\mathbb{H}$ 00'10	10.87047 AU
min. Earth dist.	6491 Jul 05 08:08	17° $\mathbb{B}$ 44'55	8.60739 AU	morning rise	6497 Mar 29 19:35	25° $\mathbb{H}$ 59'54	
direct	6491 Sep 13 08:40	14° $\mathbb{B}$ 20'38			6497 May 06 03:16	0° $\mathbb{Y}$	
evening set	6491 Dec 27 06:35	21° $\mathbb{B}$ 58'52		retrograde	6497 Jul 09 05:45	3° $\mathbb{Y}$ 11'56	
					6497 Sep 15 16:12	30° $\mathbb{R}$ $\mathbb{H}$	
conjunction	6492 Jan 13 10:17	24° $\mathbb{B}$ 04'25	1°17'49	opposition	6497 Sep 17 09:59	29° $\mathbb{H}$ 52'11	-1°10'24
minimum elong	6492 Jan 13 10:19	24° $\mathbb{B}$ 04'26	1°17'51	min. Earth dist.	6497 Sep 17 09:12	29° $\mathbb{H}$ 52'20	8.87605 AU
max. Earth dist.	6492 Jan 13 06:47	24° $\mathbb{B}$ 03'21	10.64221 AU	direct	6497 Nov 26 17:30	26° $\mathbb{H}$ 31'58	
morning rise	6492 Jan 30 10:19	26° $\mathbb{B}$ 08'54			6498 Feb 01 17:58	0° $\mathbb{Y}$	
	6492 Mar 05 05:14	0° $\mathbb{A}$		evening set	6498 Mar 08 04:06	3° $\mathbb{Y}$ 43'28	
retrograde	6492 May 09 17:38	3° $\mathbb{A}$ 28'32					
opposition	6492 Jul 17 04:01	0° $\mathbb{A}$ 09'02	1°22'33	conjunction	6498 Mar 24 20:57	5° $\mathbb{Y}$ 43'02	-1°08'32
min. Earth dist.	6492 Jul 17 07:04	0° $\mathbb{A}$ 08'27	8.67647 AU	minimum elong	6498 Mar 24 20:55	5° $\mathbb{Y}$ 43'02	1°08'33
	6492 Jul 19 03:14	30° $\mathbb{R}$ $\mathbb{B}$		max. Earth dist.	6498 Mar 24 22:03	5° $\mathbb{Y}$ 43'22	10.87720 AU
direct	6492 Sep 25 11:54	26° $\mathbb{B}$ 45'06		morning rise	6498 Apr 10 14:12	7° $\mathbb{Y}$ 42'44	
	6492 Nov 29 07:46	0° $\mathbb{A}$		retrograde	6498 Jul 21 11:29	14° $\mathbb{Y}$ 56'37	
evening set	6493 Jan 07 21:35	4° $\mathbb{A}$ 17'21		opposition	6498 Sep 29 21:54	11° $\mathbb{Y}$ 36'19	-1°36'42
				min. Earth dist.	6498 Sep 29 20:03	11° $\mathbb{Y}$ 36'40	8.87565 AU
conjunction	6493 Jan 24 22:54	6° $\mathbb{A}$ 21'25	0°55'18	direct	6498 Dec 09 00:01	8° $\mathbb{Y}$ 16'30	
minimum elong	6493 Jan 24 22:56	6° $\mathbb{A}$ 21'26	0°55'20	evening set	6499 Mar 19 23:47	15° $\mathbb{Y}$ 26'48	
max. Earth dist.	6493 Jan 24 19:19	6° $\mathbb{A}$ 20'20	10.70851 AU				
morning rise	6493 Feb 10 21:10	8° $\mathbb{A}$ 24'34		conjunction	6499 Apr 05 16:09	17° $\mathbb{Y}$ 26'18	-1°28'26
	6493 Apr 24 02:34	15° $\mathbb{A}$		minimum elong	6499 Apr 05 16:07	17° $\mathbb{Y}$ 26'17	1°28'27
retrograde	6493 May 22 02:44	15° $\mathbb{A}$ 40'31		max. Earth dist.	6499 Apr 05 18:45	17° $\mathbb{Y}$ 27'05	10.86901 AU
	6493 Jun 19 15:26	15° $\mathbb{R}$ $\mathbb{A}$		morning rise	6499 Apr 22 09:28	19° $\mathbb{Y}$ 26'06	
opposition	6493 Jul 29 23:58	12° $\mathbb{A}$ 21'22	0°53'13	retrograde	6499 Aug 02 21:31	26° $\mathbb{Y}$ 42'53	
min. Earth dist.	6493 Jul 30 02:28	12° $\mathbb{A}$ 20'53	8.73878 AU	opposition	6499 Oct 12 10:05	23° $\mathbb{Y}$ 21'55	-1°59'01
direct	6493 Oct 08 12:41	8° $\mathbb{A}$ 58'20		min. Earth dist.	6499 Oct 12 06:55	23° $\mathbb{Y}$ 22'31	8.86031 AU
	6494 Jan 08 02:33	15° $\mathbb{A}$		direct	6499 Dec 21 06:21	20° $\mathbb{Y}$ 02'24	
evening set	6494 Jan 20 06:26	16° $\mathbb{A}$ 24'53		evening set	6500 Mar 31 20:30	27° $\mathbb{Y}$ 12'32	
conjunction	6494 Feb 06 05:38	18° $\mathbb{A}$ 27'38	0°30'35	conjunction	6500 Apr 17 12:50	29° $\mathbb{Y}$ 12'17	-1°44'40
minimum elong	6494 Feb 06 05:39	18° $\mathbb{A}$ 27'38	0°30'37	minimum elong	6500 Apr 17 12:48	29° $\mathbb{Y}$ 12'16	1°44'42
max. Earth dist.	6494 Feb 06 02:58	18° $\mathbb{A}$ 26'49	10.76663 AU	max. Earth dist.	6500 Apr 17 16:37	29° $\mathbb{Y}$ 13'25	10.84603 AU
morning rise	6494 Feb 23 02:21	20° $\mathbb{A}$ 29'37			6500 Apr 24 03:20	0° $\mathbb{B}$	
retrograde	6494 Jun 03 11:26	27° $\mathbb{A}$ 42'55		morning rise	6500 May 04 06:44	1° $\mathbb{B}$ 12'33	
opposition	6494 Aug 11 17:13	24° $\mathbb{A}$ 23'53	0°21'57	retrograde	6500 Aug 15 10:13	8° $\mathbb{B}$ 33'04	
min. Earth dist.	6494 Aug 11 18:18	24° $\mathbb{A}$ 23'41	8.79175 AU	opposition	6500 Oct 24 23:16	5° $\mathbb{B}$ 11'23	-2°16'26
direct	6494 Oct 21 08:26	21° $\mathbb{A}$ 01'42		min. Earth dist.	6500 Oct 24 19:29	5° $\mathbb{B}$ 12'06	8.83054 AU
evening set	6495 Feb 01 10:22	28° $\mathbb{A}$ 23'07		direct	6501 Jan 02 10:25	1° $\mathbb{B}$ 51'59	
	6495 Feb 14 21:53	0° $\mathbb{H}$		evening set	6501 Apr 12 19:23	9° $\mathbb{B}$ 03'02	
conjunction	6495 Feb 18 07:45	0° $\mathbb{H}$ 24'45	0°04'50	conjunction	6501 Apr 29 12:17	11° $\mathbb{B}$ 03'22	-1°56'32
minimum elong	6495 Feb 18 07:44	0° $\mathbb{H}$ 24'45	0°04'52	minimum elong	6501 Apr 29 12:15	11° $\mathbb{B}$ 03'21	1°56'35
behind sun begin	6495 Feb 18 00:53	0° $\mathbb{H}$ 22'42		max. Earth dist.	6501 Apr 29 15:59	11° $\mathbb{B}$ 04'29	10.80931 AU
behind sun end	6495 Feb 18 14:35	0° $\mathbb{H}$ 26'47		morning rise	6501 May 16 07:38	13° $\mathbb{B}$ 04'27	
max. Earth dist.	6495 Feb 18 06:49	0° $\mathbb{H}$ 24'30	10.81416 AU		6501 Jun 02 02:22	15° $\mathbb{B}$	
morning rise	6495 Mar 07 03:02	2° $\mathbb{H}$ 25'47		retrograde	6501 Aug 28 00:58	20° $\mathbb{B}$ 29'27	
desc. node	6495 Apr 28 17:00	7° $\mathbb{H}$ 44'19		opposition	6501 Nov 06 14:05	17° $\mathbb{B}$ 06'58	-2°28'10
retrograde	6495 Jun 15 18:12	9° $\mathbb{H}$ 37'29		min. Earth dist.	6501 Nov 06 10:26	17° $\mathbb{B}$ 07'39	8.78768 AU
opposition	6495 Aug 24 08:07	6° $\mathbb{H}$ 18'23	-0°09'55		6501 Dec 06 21:22	15° $\mathbb{R}$ $\mathbb{B}$	
min. Earth dist.	6495 Aug 24 08:05	6° $\mathbb{H}$ 18'23	8.83327 AU	direct	6502 Jan 14 16:10	13° $\mathbb{B}$ 47'28	

	6502 Feb 21 13:29	15°♄		6508 May 03 20:44	0°♄
evening set	6502 Apr 24 21:18	21°♄00'26	evening set	6508 Jul 09 05:49	6°♄33'37
conjunction	6502 May 11 15:39	23°♄01'45 -2°03'27	conjunction	6508 Jul 26 22:00	8°♄46'09 -0°50'31
minimum elong	6502 May 11 15:38	23°♄01'44 2°03'30	minimum elong	6508 Jul 26 22:02	8°♄46'10 0°50'33
max. Earth dist.	6502 May 11 19:25	23°♄02'53 10.76043 AU	max. Earth dist.	6508 Jul 27 00:22	8°♄46'54 10.35411 AU
morning rise	6502 May 28 13:12	25°♄03'59	morning rise	6508 Aug 13 17:43	10°♄59'47
	6502 Jul 14 15:02	0°♄		6508 Sep 17 19:45	15°♄
retrograde	6502 Sep 09 20:17	2°♄34'00	retrograde	6508 Nov 27 11:02	18°♄57'59
	6502 Nov 08 09:19	30°♄♄	opposition	6509 Feb 03 22:39	15°♄30'44 -0°45'40
opposition	6502 Nov 19 06:54	29°♄10'41 -2°33'32	min. Earth dist.	6509 Feb 03 21:09	15°♄31'02 8.32362 AU
min. Earth dist.	6502 Nov 19 03:17	29°♄11'22 8.73345 AU		6509 Feb 10 08:22	15°♄♄
direct	6503 Jan 27 00:35	25°♄50'55	direct	6509 Apr 12 01:35	12°♄06'17
	6503 Apr 09 11:47	0°♄		6509 Jun 09 07:22	15°♄
evening set	6503 May 07 03:31	3°♄06'43	evening set	6509 Jul 23 03:13	19°♄51'41
conjunction	6503 May 24 00:14	5°♄09'22 -2°04'59	conjunction	6509 Aug 09 23:05	22°♄06'05 -0°22'56
minimum elong	6503 May 24 00:14	5°♄09'22 2°05'01	minimum elong	6509 Aug 09 23:06	22°♄06'05 0°22'58
max. Earth dist.	6503 May 24 04:49	5°♄10'46 10.70135 AU	max. Earth dist.	6509 Aug 10 00:36	22°♄06'33 10.29552 AU
morning rise	6503 Jun 10 00:30	7°♄13'06	morning rise	6509 Aug 27 21:38	24°♄21'20
retrograde	6503 Sep 22 19:42	14°♄48'26		6509 Oct 19 07:24	0°♄♄
opposition	6503 Dec 02 02:01	11°♄24'16 -2°32'05	retrograde	6509 Dec 11 10:38	2°♄22'01
min. Earth dist.	6503 Dec 01 21:52	11°♄25'04 8.67015 AU		6510 Feb 03 17:38	30°♄♄
direct	6504 Feb 08 11:05	8°♄04'05	opposition	6510 Feb 17 11:11	28°♄54'36 -0°10'19
evening set	6504 May 18 14:53	15°♄23'32	min. Earth dist.	6510 Feb 17 10:15	28°♄54'47 8.27017 AU
			direct	6510 Apr 25 12:23	25°♄29'09
conjunction	6504 Jun 04 14:44	17°♄27'51 -2°00'49	asc. node	6510 Jun 04 21:17	26°♄55'59
minimum elong	6504 Jun 04 14:46	17°♄27'52 2°00'52		6510 Jul 08 21:04	0°♄♄
max. Earth dist.	6504 Jun 04 20:14	17°♄29'33 10.63469 AU	evening set	6510 Aug 06 07:11	3°♄20'11
morning rise	6504 Jun 21 18:21	19°♄33'21			
retrograde	6504 Oct 05 00:17	27°♄14'06	conjunction	6510 Aug 24 05:44	5°♄36'00 0°06'16
opposition	6504 Dec 14 00:06	23°♄49'07 -2°23'34	minimum elong	6510 Aug 24 05:43	5°♄36'00 0°06'15
min. Earth dist.	6504 Dec 13 19:23	23°♄50'02 8.60065 AU	behind sun begin	6510 Aug 23 22:49	5°♄33'50
direct	6505 Feb 20 00:54	20°♄28'22	behind sun end	6510 Aug 24 12:37	5°♄38'10
evening set	6505 May 31 08:15	27°♄52'08	max. Earth dist.	6510 Aug 24 06:15	5°♄36'09 10.24837 AU
			morning rise	6510 Sep 11 06:00	7°♄52'25
conjunction	6505 Jun 17 11:48	29°♄58'23 -1°50'56	retrograde	6510 Dec 25 10:52	15°♄54'28
minimum elong	6505 Jun 17 11:50	29°♄58'24 1°50'58	opposition	6511 Mar 03 02:08	12°♄27'04 0°26'01
	6505 Jun 17 17:01	0°♄♄	min. Earth dist.	6511 Mar 03 01:50	12°♄27'08 8.23029 AU
max. Earth dist.	6505 Jun 17 17:06	0°♄00'02 10.56352 AU	direct	6511 May 09 04:31	9°♄00'41
morning rise	6505 Jul 04 19:23	2°♄05'54	evening set	6511 Aug 20 16:16	16°♄56'43
retrograde	6505 Oct 18 10:39	9°♄51'51			
opposition	6505 Dec 27 01:15	6°♄26'08 -2°08'04	conjunction	6511 Sep 07 16:15	19°♄13'26 0°35'15
min. Earth dist.	6505 Dec 26 20:55	6°♄26'59 8.52809 AU	minimum elong	6511 Sep 07 16:13	19°♄13'26 0°35'14
direct	6506 Mar 04 17:03	3°♄04'38	max. Earth dist.	6511 Sep 07 15:28	19°♄13'11 10.21635 AU
evening set	6506 Jun 13 08:27	10°♄33'19	morning rise	6511 Sep 25 17:02	21°♄30'28
			retrograde	6512 Jan 08 10:53	29°♄32'34
conjunction	6506 Jun 30 16:06	12°♄41'40 -1°35'31	opposition	6512 Mar 15 18:44	26°♄05'23 1°01'10
minimum elong	6506 Jun 30 16:09	12°♄41'41 1°35'33	min. Earth dist.	6512 Mar 15 19:32	26°♄05'14 8.20707 AU
max. Earth dist.	6506 Jun 30 20:17	12°♄42'58 10.49099 AU	direct	6512 May 22 00:29	22°♄38'11
morning rise	6506 Jul 18 03:58	14°♄51'17		6512 Aug 29 01:44	0°♄♄
retrograde	6506 Oct 31 23:30	22°♄41'58	evening set	6512 Sep 03 05:03	0°♄38'15
opposition	6507 Jan 09 05:20	19°♄15'37 -1°45'58			
min. Earth dist.	6507 Jan 09 02:07	19°♄16'16 8.45573 AU	conjunction	6512 Sep 21 05:15	2°♄55'16 1°02'24
direct	6507 Mar 17 14:52	15°♄53'12	minimum elong	6512 Sep 21 05:12	2°♄55'15 1°02'24
evening set	6507 Jun 26 15:39	23°♄27'17	max. Earth dist.	6512 Sep 21 02:55	2°♄54'31 10.20187 AU
			morning rise	6512 Oct 09 05:19	5°♄12'16
conjunction	6507 Jul 14 03:37	25°♄37'45 -1°15'05	retrograde	6513 Jan 21 09:50	13°♄13'00
minimum elong	6507 Jul 14 03:40	25°♄37'46 1°15'08	opposition	6513 Mar 29 12:00	9°♄46'16 1°32'57
max. Earth dist.	6507 Jul 14 06:41	25°♄38'42 10.42025 AU	min. Earth dist.	6513 Mar 29 13:56	9°♄45'52 8.20215 AU
morning rise	6507 Jul 31 19:39	27°♄49'27	direct	6513 Jun 04 23:01	6°♄18'24
	6507 Aug 19 04:01	0°♄	evening set	6513 Sep 17 19:20	14°♄21'10
retrograde	6507 Nov 14 15:22	5°♄44'15			
opposition	6508 Jan 22 12:35	2°♄17'23 -1°18'06	conjunction	6513 Oct 05 18:36	16°♄37'54 1°26'04
min. Earth dist.	6508 Jan 22 10:26	2°♄17'48 8.38664 AU	minimum elong	6513 Oct 05 18:33	16°♄37'53 1°26'05
	6508 Feb 23 03:15	30°♄♄	max. Earth dist.	6513 Oct 05 15:07	16°♄36'47 10.20590 AU
direct	6508 Mar 29 18:22	28°♄53'57	morning rise	6513 Oct 23 16:49	18°♄54'18



























































































































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opposition	6514 Apr 12 05:18	23°♄26'11	1°59'26	min. Earth dist.	6520 Jun 29 21:30	12°♄25'18	8.57194 AU
min. Earth dist.	6514 Apr 12 07:51	23°♄25'40	8.21573 AU	direct	6520 Sep 07 21:01	9°♄00'05	
direct	6514 Jun 19 00:10	19°♄57'53		evening set	6520 Dec 21 22:09	16°♄40'38	
evening set	6514 Oct 02 08:36	28°♄01'47					
	6514 Oct 17 22:36	0°♄		conjunction	6521 Jan 08 02:56	18°♄46'48	1°26'55
				minimum elong	6521 Jan 08 02:58	18°♄46'49	1°26'57
conjunction	6514 Oct 20 06:01	0°♄17'40	1°44'48	max. Earth dist.	6521 Jan 07 23:35	18°♄45'46	10.60916 AU
minimum elong	6514 Oct 20 05:59	0°♄17'40	1°44'50	morning rise	6521 Jan 25 04:02	20°♄51'53	
max. Earth dist.	6514 Oct 20 02:02	0°♄16'24	10.22806 AU	retrograde	6521 May 05 10:21	28°♄12'57	
morning rise	6514 Nov 07 01:25	2°♄32'57		opposition	6521 Jul 12 18:14	24°♄52'49	1°34'44
retrograde	6515 Feb 17 23:19	10°♄27'04		min. Earth dist.	6521 Jul 12 19:56	24°♄52'29	8.64655 AU
opposition	6515 Apr 25 21:38	7°♄01'40	2°19'04	direct	6521 Sep 21 02:05	21°♄28'09	
min. Earth dist.	6515 Apr 26 00:11	7°♄01'09	8.24681 AU	evening set	6522 Jan 03 15:16	29°♄02'31	
direct	6515 Jul 03 02:13	3°♄33'14			6522 Jan 11 13:48	0°♄	
evening set	6515 Oct 16 18:50	11°♄36'31					
				conjunction	6522 Jan 20 17:45	1°♄07'08	1°05'47
conjunction	6515 Nov 03 13:48	13°♄51'09	1°57'36	minimum elong	6522 Jan 20 17:47	1°♄07'09	1°05'49
minimum elong	6515 Nov 03 13:46	13°♄51'09	1°57'39	max. Earth dist.	6522 Jan 20 15:47	1°♄06'32	10.68197 AU
max. Earth dist.	6515 Nov 03 09:58	13°♄49'56	10.26698 AU	morning rise	6522 Feb 06 16:44	3°♄10'45	
	6515 Nov 12 14:48	15°♄		retrograde	6522 May 17 21:58	10°♄27'41	
morning rise	6515 Nov 21 05:50	16°♄04'56		opposition	6522 Jul 25 14:45	7°♄08'10	1°06'47
retrograde	6516 Mar 02 12:32	23°♄54'09		min. Earth dist.	6522 Jul 25 15:45	7°♄07'58	8.71610 AU
opposition	6516 May 08 12:11	20°♄29'36	2°30'49	direct	6522 Oct 04 02:42	3°♄44'36	
min. Earth dist.	6516 May 08 14:37	20°♄29'07	8.29340 AU	evening set	6523 Jan 16 02:04	11°♄13'02	
direct	6516 Jul 16 02:26	17°♄01'15					
evening set	6516 Oct 30 00:04	25°♄02'16		conjunction	6523 Feb 02 02:21	13°♄16'15	0°41'58
				minimum elong	6523 Feb 02 02:22	13°♄16'15	0°41'59
conjunction	6516 Nov 16 16:13	27°♄15'23	2°03'52	max. Earth dist.	6523 Feb 02 01:16	13°♄15'55	10.74803 AU
minimum elong	6516 Nov 16 16:12	27°♄15'22	2°03'55		6523 Feb 16 09:16	15°♄	
max. Earth dist.	6516 Nov 16 12:37	27°♄14'14	10.32020 AU	morning rise	6523 Feb 18 23:37	15°♄18'36	
morning rise	6516 Dec 04 04:44	29°♄27'25		retrograde	6523 May 30 07:17	22°♄32'21	
	6516 Dec 08 14:40	0°♄		opposition	6523 Aug 07 08:33	19°♄13'17	0°36'16
retrograde	6517 Mar 15 22:23	7°♄11'03		min. Earth dist.	6523 Aug 07 09:34	19°♄13'06	8.77755 AU
opposition	6517 May 22 00:27	3°♄47'24	2°34'17	direct	6523 Oct 16 22:05	15°♄50'48	
min. Earth dist.	6517 May 22 03:15	3°♄46'51	8.35262 AU	evening set	6524 Jan 28 07:48	23°♄13'52	
direct	6517 Jul 29 23:25	0°♄19'23					
evening set	6517 Nov 12 22:54	8°♄16'40		conjunction	6524 Feb 14 05:54	25°♄15'49	0°16'34
				minimum elong	6524 Feb 14 05:54	25°♄15'49	0°16'36
conjunction	6517 Nov 30 11:59	10°♄28'03	2°03'28	max. Earth dist.	6524 Feb 14 04:42	25°♄15'28	10.80452 AU
minimum elong	6517 Nov 30 11:59	10°♄28'04	2°03'31	morning rise	6524 Mar 02 01:48	27°♄17'08	
max. Earth dist.	6517 Nov 30 08:13	10°♄26'53	10.38457 AU		6524 Mar 26 04:34	0°♄	
morning rise	6517 Dec 17 21:05	12°♄38'17		retrograde	6524 Jun 10 12:52	4°♄28'46	
retrograde	6518 Mar 29 02:44	20°♄15'56		opposition	6524 Aug 18 23:56	1°♄09'57	0°04'34
opposition	6518 Jun 04 09:54	16°♄53'15	2°29'37	min. Earth dist.	6524 Aug 19 00:32	1°♄09'50	8.82836 AU
min. Earth dist.	6518 Jun 04 13:09	16°♄52'36	8.42119 AU		6524 Sep 03 20:07	30°♄	
direct	6518 Aug 12 18:18	13°♄25'47		desc. node	6524 Oct 12 03:22	28°♄01'42	
evening set	6518 Nov 26 14:21	21°♄18'10		direct	6524 Oct 28 13:23	27°♄48'27	
					6524 Dec 20 07:07	0°♄	
conjunction	6518 Dec 14 00:24	23°♄27'46	1°56'43	evening set	6525 Feb 08 09:16	5°♄06'54	
minimum elong	6518 Dec 14 00:26	23°♄27'47	1°56'46				
max. Earth dist.	6518 Dec 13 20:16	23°♄26'29	10.45670 AU	conjunction	6525 Feb 25 05:29	7°♄07'49	-0°09'22
morning rise	6518 Dec 31 06:31	25°♄36'11		minimum elong	6525 Feb 25 05:28	7°♄07'48	0°09'21
	6519 Feb 08 21:50	0°♄		behind sun begin	6525 Feb 24 23:33	7°♄06'03	
retrograde	6519 Apr 11 00:46	3°♄07'53		behind sun end	6525 Feb 25 11:23	7°♄09'34	
	6519 Jun 14 17:14	30°♄		max. Earth dist.	6525 Feb 25 05:01	7°♄07'40	10.84920 AU
opposition	6519 Jun 17 16:03	29°♄46'08	2°17'26	morning rise	6525 Mar 14 00:13	9°♄08'16	
min. Earth dist.	6519 Jun 17 19:28	29°♄45'27	8.49559 AU	retrograde	6525 Jun 22 18:33	16°♄19'00	
direct	6519 Aug 26 10:08	26°♄19'26		opposition	6525 Aug 31 13:41	13°♄00'12	-0°27'00
	6519 Nov 03 03:07	0°♄		min. Earth dist.	6525 Aug 31 13:03	13°♄00'19	8.86650 AU
evening set	6519 Dec 09 21:59	4°♄06'06		direct	6525 Nov 10 03:22	9°♄39'36	
				evening set	6526 Feb 20 07:28	16°♄54'15	
conjunction	6519 Dec 27 05:16	6°♄13'57	1°44'14				
minimum elong	6519 Dec 27 05:18	6°♄13'57	1°44'17	conjunction	6526 Mar 09 02:08	18°♄54'21	-0°34'38
max. Earth dist.	6519 Dec 27 00:58	6°♄12'37	10.53286 AU	minimum elong	6526 Mar 09 02:07	18°♄54'21	0°34'37
morning rise	6520 Jan 13 08:47	8°♄20'38		max. Earth dist.	6526 Mar 09 03:17	18°♄54'42	10.88019 AU
retrograde	6520 Apr 22 19:12	15°♄46'43		morning rise	6526 Mar 25 19:53	20°♄54'12	

retrograde	6526 Jul 05 01:12	28° $\text{K}$ 05'10	morning rise	6532 Jun 03 15:39	1° $\text{II}$ 53'13
opposition	6526 Sep 13 02:08	24° $\text{K}$ 46'09 -0°57'14	retrograde	6532 Sep 16 06:22	9° $\text{II}$ 25'53
min. Earth dist.	6526 Sep 13 00:13	24° $\text{K}$ 46'31 8.89030 AU	opposition	6532 Nov 25 13:44	6° $\text{II}$ 02'18 -2°33'30
direct	6526 Nov 22 11:57	21° $\text{K}$ 26'19	min. Earth dist.	6532 Nov 25 10:43	6° $\text{II}$ 02'53 8.70470 AU
evening set	6527 Mar 04 03:54	28° $\text{K}$ 38'09	direct	6533 Feb 02 01:55	2° $\text{II}$ 42'26
	6527 Mar 15 15:34	0° $\text{Y}$	evening set	6533 May 13 06:13	10° $\text{II}$ 00'00
conjunction	6527 Mar 20 21:18	0° $\text{Y}$ 37'41 -0°58'22	conjunction	6533 May 30 04:21	12° $\text{II}$ 03'27 -2°03'23
minimum elong	6527 Mar 20 21:16	0° $\text{Y}$ 37'41 0°58'22	minimum elong	6533 May 30 04:22	12° $\text{II}$ 03'28 2°03'26
max. Earth dist.	6527 Mar 20 23:27	0° $\text{Y}$ 38'20 10.89606 AU	max. Earth dist.	6533 May 30 07:04	12° $\text{II}$ 04'17 10.66781 AU
morning rise	6527 Apr 06 14:25	2° $\text{Y}$ 37'13	morning rise	6533 Jun 16 06:24	14° $\text{II}$ 08'05
retrograde	6527 Jul 17 07:16	9° $\text{Y}$ 49'28	retrograde	6533 Sep 29 07:23	21° $\text{II}$ 46'15
opposition	6527 Sep 25 13:50	6° $\text{Y}$ 30'05 -1°24'58	opposition	6533 Dec 08 10:24	18° $\text{II}$ 21'37 -2°28'19
min. Earth dist.	6527 Sep 25 11:44	6° $\text{Y}$ 30'29 8.89851 AU	min. Earth dist.	6533 Dec 08 07:55	18° $\text{II}$ 22'06 8.63197 AU
direct	6527 Dec 04 17:51	3° $\text{Y}$ 10'47	direct	6534 Feb 14 14:57	15° $\text{II}$ 00'59
evening set	6528 Mar 14 23:37	10° $\text{Y}$ 20'54	evening set	6534 May 25 20:31	22° $\text{II}$ 22'43
conjunction	6528 Mar 31 16:01	12° $\text{Y}$ 20'10 -1°19'38	conjunction	6534 Jun 11 22:12	24° $\text{II}$ 28'03 -1°56'09
minimum elong	6528 Mar 31 15:59	12° $\text{Y}$ 20'10 1°19'39	minimum elong	6534 Jun 11 22:14	24° $\text{II}$ 28'04 1°56'12
max. Earth dist.	6528 Mar 31 17:52	12° $\text{Y}$ 20'44 10.89579 AU	max. Earth dist.	6534 Jun 12 01:18	24° $\text{II}$ 29'01 10.59262 AU
morning rise	6528 Apr 17 09:05	14° $\text{Y}$ 19'40	morning rise	6534 Jun 29 04:01	26° $\text{II}$ 34'39
retrograde	6528 Jul 28 15:25	21° $\text{Y}$ 34'18		6534 Jul 29 09:54	0° $\text{E}$
opposition	6528 Oct 07 01:43	18° $\text{Y}$ 14'22 -1°49'11	retrograde	6534 Oct 12 14:00	4° $\text{E}$ 18'17
min. Earth dist.	6528 Oct 06 23:54	18° $\text{Y}$ 14'42 8.89018 AU	opposition	6534 Dec 21 09:58	0° $\text{E}$ 52'38 -2°16'04
direct	6528 Dec 15 23:56	14° $\text{Y}$ 55'22	min. Earth dist.	6534 Dec 21 07:22	0° $\text{E}$ 53'09 8.55474 AU
evening set	6529 Mar 26 19:32	22° $\text{Y}$ 04'52		6535 Jan 01 19:03	30° $\text{R}$ $\text{II}$
conjunction	6529 Apr 12 11:33	24° $\text{Y}$ 04'15 -1°37'36	direct	6535 Feb 27 06:56	27° $\text{II}$ 31'07
minimum elong	6529 Apr 12 11:30	24° $\text{Y}$ 04'14 1°37'38		6535 Apr 22 09:56	0° $\text{E}$
max. Earth dist.	6529 Apr 12 13:13	24° $\text{Y}$ 04'45 10.87870 AU	evening set	6535 Jun 07 17:12	4° $\text{E}$ 57'39
morning rise	6529 Apr 29 05:07	26° $\text{Y}$ 04'03	conjunction	6535 Jun 24 22:59	7° $\text{E}$ 05'06 -1°43'17
	6529 Jun 04 17:27	0° $\text{E}$	minimum elong	6535 Jun 24 23:01	7° $\text{E}$ 05'06 1°43'20
retrograde	6529 Aug 10 00:52	3° $\text{E}$ 22'08	max. Earth dist.	6535 Jun 25 02:37	7° $\text{E}$ 06'13 10.51467 AU
opposition	6529 Oct 19 14:17	0° $\text{E}$ 01'28 -2°08'55	morning rise	6535 Jul 12 08:49	9° $\text{E}$ 13'48
	6529 Oct 19 22:05	30° $\text{R}$ $\text{Y}$	retrograde	6535 Oct 26 01:14	17° $\text{E}$ 02'38
min. Earth dist.	6529 Oct 19 12:21	0° $\text{E}$ 01'49 8.86501 AU	opposition	6536 Jan 03 12:36	13° $\text{E}$ 36'06 -1°56'59
direct	6529 Dec 28 04:58	26° $\text{Y}$ 42'36	min. Earth dist.	6536 Jan 03 09:41	13° $\text{E}$ 36'40 8.47646 AU
	6530 Mar 02 19:33	0° $\text{E}$	direct	6536 Mar 11 02:30	10° $\text{E}$ 13'36
evening set	6530 Apr 07 17:06	3° $\text{E}$ 52'39	evening set	6536 Jun 19 20:54	17° $\text{E}$ 45'28
conjunction	6530 Apr 24 09:34	5° $\text{E}$ 52'29 -1°51'32	conjunction	6536 Jul 07 07:01	19° $\text{E}$ 55'07 -1°25'06
minimum elong	6530 Apr 24 09:32	5° $\text{E}$ 52'28 1°51'34	minimum elong	6536 Jul 07 07:04	19° $\text{E}$ 55'08 1°25'09
max. Earth dist.	6530 Apr 24 12:09	5° $\text{E}$ 53'16 10.84519 AU	max. Earth dist.	6536 Jul 07 10:40	19° $\text{E}$ 56'15 10.43763 AU
morning rise	6530 May 11 04:07	7° $\text{E}$ 52'58	morning rise	6536 Jul 24 21:03	22° $\text{E}$ 06'00
	6530 Aug 04 23:58	15° $\text{E}$	retrograde	6536 Nov 07 16:34	29° $\text{E}$ 59'31
retrograde	6530 Aug 22 14:07	15° $\text{E}$ 15'22	opposition	6537 Jan 15 18:27	26° $\text{E}$ 32'14 -1°31'39
	6530 Sep 09 08:49	15° $\text{R}$ $\text{E}$	min. Earth dist.	6537 Jan 15 15:36	26° $\text{E}$ 32'48 8.40097 AU
opposition	6530 Nov 01 03:58	11° $\text{E}$ 53'49 -2°23'20	direct	6537 Mar 24 02:35	23° $\text{E}$ 08'41
min. Earth dist.	6530 Nov 01 01:10	11° $\text{E}$ 54'20 8.82414 AU		6537 Jun 27 00:07	0° $\text{Q}$
direct	6531 Jan 09 11:17	8° $\text{E}$ 34'51	evening set	6537 Jul 03 07:56	0° $\text{Q}$ 46'14
	6531 Apr 13 02:47	15° $\text{E}$	conjunction	6537 Jul 20 22:19	2° $\text{Q}$ 58'04 -1°02'19
evening set	6531 Apr 19 17:24	15° $\text{E}$ 46'30	minimum elong	6537 Jul 20 22:21	2° $\text{Q}$ 58'04 1°02'21
conjunction	6531 May 06 11:04	17° $\text{E}$ 47'12 -2°00'48	max. Earth dist.	6537 Jul 21 00:52	2° $\text{Q}$ 58'52 10.36524 AU
minimum elong	6531 May 06 11:03	17° $\text{E}$ 47'12 2°00'50	morning rise	6537 Aug 07 16:23	5° $\text{Q}$ 11'02
max. Earth dist.	6531 May 06 14:21	17° $\text{E}$ 48'12 10.79710 AU	retrograde	6537 Nov 21 12:02	13° $\text{Q}$ 08'28
morning rise	6531 May 23 07:18	19° $\text{E}$ 48'44	opposition	6538 Jan 29 03:27	9° $\text{Q}$ 40'40 -1°01'07
retrograde	6531 Sep 04 09:21	27° $\text{E}$ 16'04	min. Earth dist.	6538 Jan 29 01:31	9° $\text{Q}$ 41'03 8.33200 AU
opposition	6531 Nov 13 19:38	23° $\text{E}$ 53'31 -2°31'43	direct	6538 Apr 06 06:55	6° $\text{Q}$ 16'02
min. Earth dist.	6531 Nov 13 16:24	23° $\text{E}$ 54'08 8.76978 AU	evening set	6538 Jul 17 02:21	13° $\text{Q}$ 59'27
direct	6532 Jan 21 17:47	20° $\text{E}$ 34'14		6538 Jul 25 04:26	15° $\text{Q}$
evening set	6532 Apr 30 21:25	27° $\text{E}$ 48'23	conjunction	6538 Aug 03 20:33	16° $\text{Q}$ 13'14 -0°35'56
conjunction	6532 May 17 16:53	29° $\text{E}$ 50'18 -2°04'52	minimum elong	6538 Aug 03 20:34	16° $\text{Q}$ 13'15 0°35'58
minimum elong	6532 May 17 16:53	29° $\text{E}$ 50'18 2°04'55	max. Earth dist.	6538 Aug 03 21:46	16° $\text{Q}$ 13'37 10.30115 AU
max. Earth dist.	6532 May 17 20:04	29° $\text{E}$ 51'16 10.73699 AU	morning rise	6538 Aug 21 18:01	18° $\text{Q}$ 28'02
	6532 May 19 00:46	0° $\text{II}$	retrograde	6538 Dec 05 10:12	26° $\text{Q}$ 28'25

opposition	6539 Feb 11 15:13	23° $\Omega$ 00'21	-0°26'51		6544 Dec 26 12:17	15° $\mathbb{M}$	
min. Earth dist.	6539 Feb 11 14:21	23° $\Omega$ 00'32	8.27327 AU	retrograde	6545 Feb 24 21:10	18° $\mathbb{M}$ 06'34	
direct	6539 Apr 19 16:31	19° $\Omega$ 34'39			6545 Apr 29 00:38	15° $\mathbb{R}\mathbb{M}$	
evening set	6539 Jul 31 03:32	27° $\Omega$ 23'50		opposition	6545 May 02 18:45	14° $\mathbb{M}$ 41'51	2°26'22
				min. Earth dist.	6545 May 02 21:12	14° $\mathbb{M}$ 41'21	8.26755 AU
conjunction	6539 Aug 18 00:52	29° $\Omega$ 39'15	-0°07'20	direct	6545 Jul 10 02:36	11° $\mathbb{M}$ 13'41	
minimum elong	6539 Aug 18 00:52	29° $\Omega$ 39'15	0°07'22		6545 Sep 16 13:25	15° $\mathbb{M}$	
behind sun begin	6539 Aug 17 18:13	29° $\Omega$ 37'10		evening set	6545 Oct 24 00:31	19° $\mathbb{M}$ 16'35	
behind sun end	6539 Aug 18 07:32	29° $\Omega$ 41'21					
max. Earth dist.	6539 Aug 18 01:09	29° $\Omega$ 39'20	10.24893 AU	conjunction	6545 Nov 10 17:52	21° $\mathbb{M}$ 30'31	2°01'43
	6539 Aug 20 18:11	0° $\mathbb{M}$		minimum elong	6545 Nov 10 17:50	21° $\mathbb{M}$ 30'30	2°01'46
morning rise	6539 Sep 05 00:42	1° $\mathbb{M}$ 55'27		max. Earth dist.	6545 Nov 10 14:09	21° $\mathbb{M}$ 29'20	10.29345 AU
asc. node	6539 Nov 20 06:19	9° $\mathbb{M}$ 12'42		morning rise	6545 Nov 28 08:08	23° $\mathbb{M}$ 43'29	
retrograde	6539 Dec 19 08:47	9° $\mathbb{M}$ 57'42			6546 Jan 28 05:47	0° $\mathbb{Z}$	
opposition	6540 Feb 25 05:32	6° $\mathbb{M}$ 29'36	0°09'21	retrograde	6546 Mar 10 08:59	1° $\mathbb{Z}$ 30'15	
min. Earth dist.	6540 Feb 25 05:18	6° $\mathbb{M}$ 29'39	8.22820 AU		6546 Apr 21 07:26	30° $\mathbb{R}\mathbb{M}$	
direct	6540 May 02 08:06	3° $\mathbb{M}$ 02'59		opposition	6546 May 16 08:57	28° $\mathbb{M}$ 06'35	2°33'33
evening set	6540 Aug 13 10:31	10° $\mathbb{M}$ 57'25		min. Earth dist.	6546 May 16 11:31	28° $\mathbb{M}$ 06'04	8.32527 AU
				direct	6546 Jul 24 02:37	24° $\mathbb{M}$ 38'48	
conjunction	6540 Aug 31 10:02	13° $\mathbb{M}$ 14'00	0°22'03		6546 Oct 15 19:55	0° $\mathbb{Z}$	
minimum elong	6540 Aug 31 10:00	13° $\mathbb{M}$ 14'00	0°22'02	evening set	6546 Nov 07 03:04	2° $\mathbb{Z}$ 38'27	
max. Earth dist.	6540 Aug 31 09:53	13° $\mathbb{M}$ 13'57	10.21164 AU				
morning rise	6540 Sep 18 10:58	15° $\mathbb{M}$ 31'03		conjunction	6546 Nov 24 17:27	4° $\mathbb{Z}$ 50'41	2°04'17
retrograde	6541 Jan 01 08:55	23° $\mathbb{M}$ 33'57		minimum elong	6546 Nov 24 17:26	4° $\mathbb{Z}$ 50'41	2°04'20
opposition	6541 Mar 09 21:43	20° $\mathbb{M}$ 06'04	0°45'20	max. Earth dist.	6546 Nov 24 13:44	4° $\mathbb{Z}$ 49'31	10.35687 AU
min. Earth dist.	6541 Mar 09 21:39	20° $\mathbb{M}$ 06'05	8.19945 AU	morning rise	6546 Dec 12 04:15	7° $\mathbb{Z}$ 01'49	
direct	6541 May 16 02:39	16° $\mathbb{M}$ 38'42		retrograde	6547 Mar 23 15:46	14° $\mathbb{Z}$ 42'38	
evening set	6541 Aug 27 22:12	24° $\mathbb{M}$ 37'38		opposition	6547 May 29 20:21	11° $\mathbb{Z}$ 19'59	2°32'27
				min. Earth dist.	6547 May 29 22:39	11° $\mathbb{Z}$ 19'31	8.39337 AU
conjunction	6541 Sep 14 22:38	26° $\mathbb{M}$ 54'48	0°50'17	direct	6547 Aug 07 00:24	7° $\mathbb{Z}$ 52'45	
minimum elong	6541 Sep 14 22:36	26° $\mathbb{M}$ 54'47	0°50'17	evening set	6547 Nov 20 22:35	15° $\mathbb{Z}$ 47'48	
max. Earth dist.	6541 Sep 14 22:15	26° $\mathbb{M}$ 54'41	10.19154 AU				
morning rise	6541 Oct 02 23:17	29° $\mathbb{M}$ 12'05		conjunction	6547 Dec 08 10:04	17° $\mathbb{Z}$ 58'14	2°00'17
	6541 Oct 09 09:59	0° $\mathbb{Z}$		minimum elong	6547 Dec 08 10:05	17° $\mathbb{Z}$ 58'15	2°00'21
retrograde	6542 Jan 15 09:41	7° $\mathbb{Z}$ 14'16		max. Earth dist.	6547 Dec 08 06:37	17° $\mathbb{Z}$ 57'09	10.42868 AU
opposition	6542 Mar 23 15:02	3° $\mathbb{Z}$ 46'52	1°18'57	morning rise	6547 Dec 25 17:35	20° $\mathbb{Z}$ 07'30	
min. Earth dist.	6542 Mar 23 15:07	3° $\mathbb{Z}$ 46'51	8.18882 AU	retrograde	6548 Apr 04 17:19	27° $\mathbb{Z}$ 42'10	
direct	6542 May 29 23:30	0° $\mathbb{Z}$ 18'57		opposition	6548 Jun 11 04:21	24° $\mathbb{Z}$ 20'28	2°23'29
evening set	6542 Sep 11 12:29	8° $\mathbb{Z}$ 21'15		min. Earth dist.	6548 Jun 11 06:44	24° $\mathbb{Z}$ 20'00	8.46732 AU
				direct	6548 Aug 19 18:10	20° $\mathbb{Z}$ 53'56	
conjunction	6542 Sep 29 12:32	10° $\mathbb{Z}$ 38'23	1°15'45	evening set	6548 Dec 03 10:26	28° $\mathbb{Z}$ 43'30	
minimum elong	6542 Sep 29 12:29	10° $\mathbb{Z}$ 38'22	1°15'46		6548 Dec 13 19:13	0° $\mathbb{Z}$	
max. Earth dist.	6542 Sep 29 11:37	10° $\mathbb{Z}$ 38'05	10.19002 AU				
morning rise	6542 Oct 17 11:40	12° $\mathbb{Z}$ 55'18		conjunction	6548 Dec 20 19:07	0° $\mathbb{Z}$ 52'10	1°50'15
retrograde	6543 Jan 29 09:34	20° $\mathbb{Z}$ 55'24		minimum elong	6548 Dec 20 19:09	0° $\mathbb{Z}$ 52'11	1°50'18
opposition	6543 Apr 06 08:59	17° $\mathbb{Z}$ 28'44	1°48'05	max. Earth dist.	6548 Dec 20 15:41	0° $\mathbb{Z}$ 51'06	10.50397 AU
min. Earth dist.	6543 Apr 06 09:39	17° $\mathbb{Z}$ 28'36	8.19713 AU	morning rise	6549 Jan 06 23:40	2° $\mathbb{Z}$ 59'37	
direct	6543 Jun 12 23:06	14° $\mathbb{Z}$ 00'31		retrograde	6549 Apr 17 15:37	10° $\mathbb{Z}$ 28'28	
evening set	6543 Sep 26 03:00	22° $\mathbb{Z}$ 04'42		opposition	6549 Jun 24 09:11	7° $\mathbb{Z}$ 07'40	2°07'31
				min. Earth dist.	6549 Jun 24 12:13	7° $\mathbb{Z}$ 07'05	8.54235 AU
conjunction	6543 Oct 14 01:32	24° $\mathbb{Z}$ 21'13	1°36'53	direct	6549 Sep 02 06:17	3° $\mathbb{Z}$ 41'58	
minimum elong	6543 Oct 14 01:29	24° $\mathbb{Z}$ 21'12	1°36'55	evening set	6549 Dec 16 14:32	11° $\mathbb{Z}$ 25'38	
max. Earth dist.	6543 Oct 13 23:49	24° $\mathbb{Z}$ 20'40	10.20737 AU				
morning rise	6543 Oct 31 22:14	26° $\mathbb{Z}$ 37'13		conjunction	6550 Jan 02 20:30	13° $\mathbb{Z}$ 32'36	1°34'55
	6543 Nov 29 13:00	0° $\mathbb{M}$		minimum elong	6550 Jan 02 20:32	13° $\mathbb{Z}$ 32'37	1°34'58
retrograde	6544 Feb 12 05:20	4° $\mathbb{M}$ 33'58		max. Earth dist.	6550 Jan 02 16:37	13° $\mathbb{Z}$ 31'24	10.57844 AU
opposition	6544 Apr 19 02:34	1° $\mathbb{M}$ 08'13	2°10'59	morning rise	6550 Jan 19 22:33	15° $\mathbb{Z}$ 38'25	
min. Earth dist.	6544 Apr 19 04:07	1° $\mathbb{M}$ 07'54	8.22393 AU	retrograde	6550 Apr 30 08:55	23° $\mathbb{Z}$ 02'05	
	6544 May 03 09:07	30° $\mathbb{R}\mathbb{Z}$		opposition	6550 Jul 07 10:52	19° $\mathbb{Z}$ 42'03	1°45'40
direct	6544 Jun 26 01:02	27° $\mathbb{Z}$ 39'55		min. Earth dist.	6550 Jul 07 14:25	19° $\mathbb{Z}$ 41'22	8.61501 AU
	6544 Aug 17 14:24	0° $\mathbb{M}$		direct	6550 Sep 15 13:53	16° $\mathbb{Z}$ 17'17	
evening set	6544 Oct 09 15:48	5° $\mathbb{M}$ 44'19		evening set	6550 Dec 29 11:29	23° $\mathbb{Z}$ 54'55	
conjunction	6544 Oct 27 11:59	7° $\mathbb{M}$ 59'43	1°52'28	conjunction	6551 Jan 15 14:56	26° $\mathbb{Z}$ 00'19	1°15'18
minimum elong	6544 Oct 27 11:57	7° $\mathbb{M}$ 59'43	1°52'31	minimum elong	6551 Jan 15 14:58	26° $\mathbb{Z}$ 00'20	1°15'21
max. Earth dist.	6544 Oct 27 09:11	7° $\mathbb{M}$ 58'50	10.24256 AU	max. Earth dist.	6551 Jan 15 10:35	25° $\mathbb{Z}$ 58'59	10.64927 AU
morning rise	6544 Nov 14 05:39	10° $\mathbb{M}$ 14'22		morning rise	6551 Feb 01 14:57	28° $\mathbb{Z}$ 04'41	

	6551 Feb 18 02:32	0°♊	evening set	6557 Mar 10 08:29	5°♊38'46	
retrograde	6551 May 12 20:42	5°♊23'55				
opposition	6551 Jul 20 09:16	2°♊04'28 1°19'14	conjunction	6557 Mar 27 01:25	7°♊38'25 -1°11'04	
min. Earth dist.	6551 Jul 20 12:30	2°♊03'51 8.68282 AU	minimum elong	6557 Mar 27 01:23	7°♊38'24 1°11'05	
	6551 Aug 18 15:13	30°♊♊	max. Earth dist.	6557 Mar 27 02:55	7°♊38'52 10.87107 AU	
direct	6551 Sep 28 18:48	28°♊40'37	morning rise	6557 Apr 12 18:36	9°♊38'11	
	6551 Nov 08 03:41	0°♊	retrograde	6557 Jul 23 18:26	16°♊52'41	
evening set	6552 Jan 11 01:50	6°♊12'22	opposition	6557 Oct 02 03:45	13°♊32'16 -1°39'36	
			min. Earth dist.	6557 Oct 02 01:26	13°♊32'42 8.86843 AU	
conjunction	6552 Jan 28 03:03	8°♊16'20 0°52'29	direct	6557 Dec 11 06:12	10°♊12'25	
minimum elong	6552 Jan 28 03:05	8°♊16'20 0°52'31	evening set	6558 Mar 22 04:36	17°♊23'04	
max. Earth dist.	6552 Jan 27 23:15	8°♊15'10 10.71399 AU				
morning rise	6552 Feb 14 01:17	10°♊19'23	conjunction	6558 Apr 07 21:00	19°♊22'41 -1°30'34	
	6552 Mar 29 03:58	15°♊	minimum elong	6558 Apr 07 20:58	19°♊22'40 1°30'36	
retrograde	6552 May 24 07:46	17°♊35'07	max. Earth dist.	6558 Apr 07 23:53	19°♊23'33 10.86070 AU	
	6552 Jul 22 10:59	15°♊♊	morning rise	6558 Apr 24 14:18	21°♊22'37	
opposition	6552 Aug 01 04:54	14°♊16'00 0°49'37	retrograde	6558 Aug 05 04:40	28°♊40'06	
min. Earth dist.	6552 Aug 01 06:58	14°♊15'36 8.74324 AU	opposition	6558 Oct 14 16:27	25°♊19'00 -2°01'23	
direct	6552 Oct 10 18:16	10°♊53'03	min. Earth dist.	6558 Oct 14 13:19	25°♊19'36 8.85108 AU	
	6552 Dec 23 13:44	15°♊	direct	6558 Dec 23 10:24	21°♊59'25	
evening set	6553 Jan 22 10:25	18°♊19'14	evening set	6559 Apr 03 01:57	29°♊10'03	
				6559 Apr 10 01:51	0°♊	
conjunction	6553 Feb 08 09:37	20°♊21'56 0°27'35				
minimum elong	6553 Feb 08 09:38	20°♊21'56 0°27'37	conjunction	6559 Apr 19 18:16	1°♊09'56 -1°46'19	
max. Earth dist.	6553 Feb 08 07:25	20°♊21'16 10.77001 AU	minimum elong	6559 Apr 19 18:14	1°♊09'56 1°46'21	
morning rise	6553 Feb 25 06:10	22°♊23'51	max. Earth dist.	6559 Apr 19 21:19	1°♊10'51 10.83591 AU	
retrograde	6553 Jun 05 16:17	29°♊37'06	morning rise	6559 May 06 12:23	3°♊10'22	
opposition	6553 Aug 13 22:05	26°♊18'05 0°18'13	retrograde	6559 Aug 17 16:38	10°♊31'41	
min. Earth dist.	6553 Aug 13 23:04	26°♊17'54 8.79396 AU	opposition	6559 Oct 27 06:05	7°♊09'52 -2°18'09	
direct	6553 Oct 23 12:09	22°♊56'00	min. Earth dist.	6559 Oct 27 03:01	7°♊10'26 8.81966 AU	
	6554 Feb 01 03:51	0°♊	direct	6560 Jan 04 16:11	3°♊50'20	
evening set	6554 Feb 03 14:18	0°♊17'13	evening set	6560 Apr 14 01:25	11°♊02'02	
conjunction	6554 Feb 20 11:34	2°♊18'48 0°01'46	conjunction	6560 Apr 30 18:24	13°♊02'33 -1°57'36	
minimum elong	6554 Feb 20 11:34	2°♊18'48 0°01'48	minimum elong	6560 Apr 30 18:23	13°♊02'32 1°57'39	
behind sun begin	6554 Feb 20 04:32	2°♊16'42	max. Earth dist.	6560 Apr 30 21:31	13°♊03'29 10.79773 AU	
behind sun end	6554 Feb 20 18:36	2°♊20'54	morning rise	6560 May 17 14:02	15°♊03'50	
max. Earth dist.	6554 Feb 20 10:32	2°♊18'32 10.81519 AU		6560 May 17 01:06	15°♊	
morning rise	6554 Mar 09 06:46	4°♊19'49	retrograde	6560 Aug 29 08:48	22°♊29'42	
desc. node	6554 Mar 17 09:02	5°♊16'30	opposition	6560 Nov 07 21:28	19°♊07'04 -2°29'07	
retrograde	6554 Jun 17 23:00	11°♊31'40	min. Earth dist.	6560 Nov 07 18:11	19°♊07'41 8.77548 AU	
opposition	6554 Aug 26 13:13	8°♊12'33 -0°13'39	direct	6561 Jan 15 23:08	15°♊47'26	
min. Earth dist.	6554 Aug 26 13:50	8°♊12'26 8.83313 AU	evening set	6561 Apr 26 03:56	23°♊01'06	
direct	6554 Nov 05 02:35	4°♊51'11				
evening set	6555 Feb 15 14:28	12°♊08'16	conjunction	6561 May 12 22:34	25°♊02'38 -2°03'52	
			minimum elong	6561 May 12 22:34	25°♊02'38 2°03'55	
conjunction	6555 Mar 04 09:55	14°♊08'57 -0°24'02	max. Earth dist.	6561 May 13 02:46	25°♊03'55 10.74770 AU	
minimum elong	6555 Mar 04 09:54	14°♊08'57 0°24'01	morning rise	6561 May 29 20:20	27°♊05'07	
max. Earth dist.	6555 Mar 04 09:12	14°♊08'44 10.84785 AU		6561 Jun 24 15:55	0°♊	
morning rise	6555 Mar 21 04:12	16°♊09'18	retrograde	6561 Sep 11 04:21	4°♊36'05	
retrograde	6555 Jun 30 04:48	23°♊20'52	opposition	6561 Nov 20 14:51	1°♊12'34 -2°33'39	
opposition	6555 Sep 08 02:49	20°♊01'30 -0°44'41	min. Earth dist.	6561 Nov 20 10:48	1°♊13'20 8.72030 AU	
min. Earth dist.	6555 Sep 08 03:07	20°♊01'26 8.85919 AU		6561 Dec 06 19:55	30°♊♊	
direct	6555 Nov 17 13:30	16°♊40'44	direct	6562 Jan 28 07:42	27°♊52'41	
evening set	6556 Feb 27 12:10	23°♊54'39		6562 Mar 19 17:42	0°♊	
			evening set	6562 May 08 10:56	5°♊09'14	
conjunction	6556 Mar 15 06:05	25°♊54'40 -0°48'36	conjunction	6562 May 25 08:02	7°♊12'09 -2°04'41	
minimum elong	6556 Mar 15 06:03	25°♊54'40 0°48'36	minimum elong	6562 May 25 08:03	7°♊12'10 2°04'44	
max. Earth dist.	6556 Mar 15 05:52	25°♊54'36 10.86670 AU	max. Earth dist.	6562 May 25 13:19	7°♊13'46 10.68789 AU	
morning rise	6556 Mar 31 23:42	27°♊54'35	morning rise	6562 Jun 11 08:33	9°♊16'09	
	6556 Apr 19 09:06	0°♊	retrograde	6562 Sep 24 05:19	16°♊52'26	
retrograde	6556 Jul 11 09:53	5°♊07'04	opposition	6562 Dec 03 10:33	13°♊28'04 -2°31'19	
opposition	6556 Sep 19 15:24	1°♊47'14 -1°13'42	min. Earth dist.	6562 Dec 03 05:48	13°♊28'59 8.65649 AU	
min. Earth dist.	6556 Sep 19 14:38	1°♊47'23 8.87112 AU	direct	6563 Feb 09 19:02	10°♊07'45	
	6556 Oct 14 20:34	30°♊♊	evening set	6563 May 20 23:13	17°♊28'01	
direct	6556 Nov 28 22:42	28°♊26'59				
	6557 Jan 11 16:36	0°♊				

conjunction	6563 Jun 06 23:25	19° $\Pi$ 32'38	-1°59'48	evening set	6569 Aug 07 20:09	5° $\Pi$ 34'00	
minimum elong	6563 Jun 06 23:27	19° $\Pi$ 32'38	1°59'51				
max. Earth dist.	6563 Jun 07 04:47	19° $\Pi$ 34'17	10.62098 AU	conjunction	6569 Aug 25 18:44	7° $\Pi$ 49'52	0°09'59
morning rise	6563 Jun 24 03:27	21° $\Pi$ 38'26		minimum elong	6569 Aug 25 18:44	7° $\Pi$ 49'52	0°09'57
retrograde	6563 Oct 07 11:39	29° $\Pi$ 20'04		behind sun begin	6569 Aug 25 12:52	7° $\Pi$ 48'01	
opposition	6563 Dec 16 09:16	25° $\Pi$ 54'56	-2°21'55	behind sun end	6569 Aug 26 00:36	7° $\Pi$ 51'43	
min. Earth dist.	6563 Dec 16 04:38	25° $\Pi$ 55'50	8.58697 AU	max. Earth dist.	6569 Aug 25 19:03	7° $\Pi$ 49'58	10.24700 AU
direct	6564 Feb 22 08:06	22° $\Pi$ 34'01		morning rise	6569 Sep 12 19:06	10° $\Pi$ 06'19	
evening set	6564 Jun 01 17:26	29° $\Pi$ 58'39		retrograde	6569 Dec 26 22:47	18° $\Pi$ 08'14	
	6564 Jun 01 21:55	0° $\Theta$		opposition	6570 Mar 04 13:40	14° $\Pi$ 40'53	0°30'34
				min. Earth dist.	6570 Mar 04 13:41	14° $\Pi$ 40'53	8.23030 AU
conjunction	6564 Jun 18 21:18	2° $\Theta$ 05'11	-1°49'11	direct	6570 May 10 16:07	11° $\Pi$ 14'26	
minimum elong	6564 Jun 18 21:21	2° $\Theta$ 05'11	1°49'15	evening set	6570 Aug 22 05:34	19° $\Pi$ 10'41	
max. Earth dist.	6564 Jun 19 02:01	2° $\Theta$ 06'38	10.55014 AU				
morning rise	6564 Jul 06 05:25	4° $\Theta$ 13'00		conjunction	6570 Sep 09 05:27	21° $\Pi$ 27'23	0°38'47
retrograde	6564 Oct 19 21:20	11° $\Theta$ 59'47		minimum elong	6570 Sep 09 05:25	21° $\Pi$ 27'22	0°38'47
opposition	6564 Dec 28 11:06	8° $\Theta$ 33'57	-2°05'32	max. Earth dist.	6570 Sep 09 03:59	21° $\Pi$ 26'55	10.21758 AU
min. Earth dist.	6564 Dec 28 07:11	8° $\Theta$ 34'43	8.51507 AU	morning rise	6570 Sep 27 06:13	23° $\Pi$ 44'21	
direct	6565 Mar 06 01:51	5° $\Theta$ 12'16			6570 Nov 25 20:51	0° $\Omega$	
evening set	6565 Jun 14 18:29	12° $\Theta$ 41'51		retrograde	6571 Jan 09 22:45	1° $\Omega$ 46'08	
					6571 Feb 24 15:11	30° $\mathbb{R}$ $\Pi$	
conjunction	6565 Jul 02 02:34	14° $\Theta$ 50'29	-1°33'06	opposition	6571 Mar 18 06:10	28° $\Pi$ 19'03	1°05'21
minimum elong	6565 Jul 02 02:37	14° $\Theta$ 50'30	1°33'09	min. Earth dist.	6571 Mar 18 07:26	28° $\Pi$ 18'48	8.20953 AU
max. Earth dist.	6565 Jul 02 06:45	14° $\Theta$ 51'47	10.47867 AU	direct	6571 May 24 12:15	24° $\Pi$ 51'49	
morning rise	6565 Jul 19 14:57	17° $\Theta$ 00'23			6571 Aug 12 18:21	0° $\Omega$	
retrograde	6565 Nov 02 09:35	24° $\Theta$ 51'50		evening set	6571 Sep 05 18:18	2° $\Omega$ 51'56	
opposition	6566 Jan 10 15:46	21° $\Theta$ 25'23	-1°42'38				
min. Earth dist.	6566 Jan 10 12:35	21° $\Theta$ 26'01	8.44418 AU	conjunction	6571 Sep 23 18:20	5° $\Omega$ 08'52	1°05'33
direct	6566 Mar 19 01:48	18° $\Theta$ 02'50		minimum elong	6571 Sep 23 18:17	5° $\Omega$ 08'51	1°05'34
evening set	6566 Jun 28 02:34	25° $\Theta$ 37'43		max. Earth dist.	6571 Sep 23 15:42	5° $\Omega$ 08'02	10.20541 AU
				morning rise	6571 Oct 11 18:14	7° $\Omega$ 25'46	
conjunction	6566 Jul 15 15:04	27° $\Theta$ 48'29	-1°12'06	retrograde	6572 Jan 23 21:13	15° $\Omega$ 26'03	
minimum elong	6566 Jul 15 15:07	27° $\Theta$ 48'30	1°12'09	opposition	6572 Mar 30 23:19	11° $\Omega$ 59'24	1°36'31
max. Earth dist.	6566 Jul 15 19:02	27° $\Theta$ 49'43	10.40978 AU	min. Earth dist.	6572 Mar 31 01:09	11° $\Omega$ 59'02	8.20680 AU
morning rise	6566 Aug 02 07:29	0° $\Omega$ 00'26		direct	6572 Jun 06 11:41	8° $\Omega$ 31'34	
	6566 Aug 02 06:03	0° $\Omega$		evening set	6572 Sep 19 08:15	16° $\Omega$ 34'13	
retrograde	6566 Nov 16 03:07	7° $\Omega$ 55'51					
opposition	6567 Jan 23 23:25	4° $\Omega$ 28'54	-1°14'06	conjunction	6572 Oct 07 07:22	18° $\Omega$ 50'48	1°28'38
min. Earth dist.	6567 Jan 23 20:35	4° $\Omega$ 29'28	8.37743 AU	minimum elong	6572 Oct 07 07:19	18° $\Omega$ 50'47	1°28'40
direct	6567 Apr 01 04:50	1° $\Omega$ 05'23		max. Earth dist.	6572 Oct 07 04:15	18° $\Omega$ 49'48	10.21149 AU
evening set	6567 Jul 11 17:41	8° $\Omega$ 45'44		morning rise	6572 Oct 25 05:16	21° $\Omega$ 07'02	
				retrograde	6573 Feb 05 16:49	29° $\Omega$ 04'29	
conjunction	6567 Jul 29 10:18	10° $\Omega$ 58'30	-0°47'05	opposition	6573 Apr 13 16:20	25° $\Omega$ 38'28	2°02'11
minimum elong	6567 Jul 29 10:20	10° $\Omega$ 58'31	0°47'08	min. Earth dist.	6573 Apr 13 18:20	25° $\Omega$ 38'04	8.22225 AU
max. Earth dist.	6567 Jul 29 13:54	10° $\Omega$ 59'38	10.34638 AU	direct	6573 Jun 20 13:07	22° $\Omega$ 10'15	
morning rise	6567 Aug 16 06:12	13° $\Omega$ 12'19			6573 Oct 02 00:40	0° $\mathbb{M}$	
	6567 Aug 31 04:23	15° $\Omega$		evening set	6573 Oct 03 21:13	0° $\mathbb{M}$ 13'51	
retrograde	6567 Nov 30 00:08	21° $\Omega$ 10'53					
opposition	6568 Feb 06 09:49	17° $\Omega$ 43'34	-0°41'14	conjunction	6573 Oct 21 18:27	2° $\mathbb{M}$ 29'34	1°46'39
min. Earth dist.	6568 Feb 06 07:23	17° $\Omega$ 44'03	8.31755 AU	minimum elong	6573 Oct 21 18:25	2° $\mathbb{M}$ 29'33	1°46'42
	6568 Mar 16 20:28	15° $\mathbb{R}$ $\Omega$		max. Earth dist.	6573 Oct 21 15:09	2° $\mathbb{M}$ 28'31	10.23536 AU
direct	6568 Apr 13 11:51	14° $\Omega$ 19'02		morning rise	6573 Nov 08 13:24	4° $\mathbb{M}$ 44'37	
	6568 May 10 22:43	15° $\Omega$		retrograde	6574 Feb 19 09:51	12° $\mathbb{M}$ 38'05	
evening set	6568 Jul 24 15:45	22° $\Omega$ 04'57		opposition	6574 Apr 27 08:19	9° $\mathbb{M}$ 12'49	2°20'51
				min. Earth dist.	6574 Apr 27 10:26	9° $\mathbb{M}$ 12'23	8.25482 AU
conjunction	6568 Aug 11 11:51	24° $\Omega$ 19'28	-0°19'15	direct	6574 Jul 04 13:23	5° $\mathbb{M}$ 44'28	
minimum elong	6568 Aug 11 11:52	24° $\Omega$ 19'28	0°19'18	evening set	6574 Oct 18 06:53	13° $\mathbb{M}$ 47'18	
max. Earth dist.	6568 Aug 11 14:01	24° $\Omega$ 20'09	10.29109 AU		6574 Oct 27 22:48	15° $\mathbb{M}$	
morning rise	6568 Aug 29 10:30	26° $\Omega$ 34'49					
	6568 Sep 27 17:09	0° $\Pi$		conjunction	6574 Nov 05 01:35	16° $\mathbb{M}$ 01'44	1°58'39
retrograde	6568 Dec 12 22:58	4° $\Pi$ 35'36		minimum elong	6574 Nov 05 01:33	16° $\mathbb{M}$ 01'44	1°58'42
opposition	6569 Feb 18 22:38	1° $\Pi$ 08'09	-0°05'41	max. Earth dist.	6574 Nov 04 22:15	16° $\mathbb{M}$ 00'41	10.27559 AU
min. Earth dist.	6569 Feb 18 21:18	1° $\Pi$ 08'25	8.26736 AU	morning rise	6574 Nov 22 17:09	18° $\mathbb{M}$ 15'16	
	6569 Mar 05 06:33	30° $\mathbb{R}$ $\Omega$		retrograde	6575 Mar 04 23:42	26° $\mathbb{M}$ 03'46	
asc. node	6569 Apr 19 03:55	27° $\Omega$ 46'01		opposition	6575 May 10 22:37	22° $\mathbb{M}$ 39'22	2°31'35
direct	6569 Apr 27 00:01	27° $\Omega$ 42'38		min. Earth dist.	6575 May 11 01:12	22° $\mathbb{M}$ 38'51	8.30252 AU
	6569 Jun 17 08:54	0° $\Pi$		direct	6575 Jul 18 12:32	19° $\mathbb{M}$ 11'07	

evening set	6575 Nov 01 11:18	27°  11'32		evening set	6582 Jan 17 08:35	13°  13'08	
					6582 Feb 01 03:09	15° 	
conjunction	6575 Nov 19 03:06	29°  24'25	2°04'04	conjunction	6582 Feb 03 08:36	15°  16'15	0°38'51
minimum elong	6575 Nov 19 03:05	29°  24'25	2°04'08	minimum elong	6582 Feb 03 08:38	15°  16'15	0°38'53
max. Earth dist.	6575 Nov 18 23:20	29°  23'14	10.32972 AU	max. Earth dist.	6582 Feb 03 06:33	15°  15'37	10.75264 AU
	6575 Nov 23 19:46	0° 		morning rise	6582 Feb 20 05:52	17°  18'31	
morning rise	6575 Dec 06 15:16	1°  36'15		retrograde	6582 May 31 12:34	24°  32'02	
retrograde	6576 Mar 17 08:07	9°  19'06		opposition	6582 Aug 08 15:49	21°  12'57	0°32'21
opposition	6576 May 23 10:29	5°  55'37	2°34'01	min. Earth dist.	6582 Aug 08 17:19	21°  12'40	8.78117 AU
min. Earth dist.	6576 May 23 13:52	5°  54'56	8.36243 AU	direct	6582 Oct 18 05:19	17°  50'29	
direct	6576 Jul 31 10:16	2°  27'41		evening set	6583 Jan 29 13:48	25°  13'11	
evening set	6576 Nov 14 09:20	10°  24'17					
conjunction	6576 Dec 01 22:03	12°  35'27	2°02'52	conjunction	6583 Feb 15 11:46	27°  15'04	0°13'21
minimum elong	6576 Dec 01 22:04	12°  35'27	2°02'55	minimum elong	6583 Feb 15 11:46	27°  15'04	0°13'23
max. Earth dist.	6576 Dec 01 17:30	12°  34'01	10.39454 AU	behind sun begin	6583 Feb 15 07:40	27°  13'50	
morning rise	6576 Dec 19 06:58	14°  45'28		behind sun end	6583 Feb 15 15:52	27°  16'17	
retrograde	6577 Mar 30 10:19	22°  22'20		max. Earth dist.	6583 Feb 15 10:09	27°  14'35	10.80709 AU
opposition	6577 Jun 05 19:19	18°  59'48	2°28'23	morning rise	6583 Mar 04 07:40	29°  16'19	
min. Earth dist.	6577 Jun 05 23:02	18°  59'04	8.43115 AU		6583 Mar 10 12:44	0° 	
direct	6577 Aug 14 05:43	15°  32'25		retrograde	6583 Jun 12 18:49	6°  27'56	
evening set	6577 Nov 27 23:54	23°  24'05		opposition	6583 Aug 21 06:53	3°  09'03	0°00'36
				min. Earth dist.	6583 Aug 21 07:13	3°  09'00	8.82982 AU
conjunction	6577 Dec 15 09:40	25°  33'28	1°55'22	desc. node	6583 Aug 28 11:38	2°  36'44	
minimum elong	6577 Dec 15 09:42	25°  33'29	1°55'26		6583 Oct 14 22:46	30° 	
max. Earth dist.	6577 Dec 15 04:55	25°  31'59	10.46654 AU	direct	6583 Oct 30 21:55	29°  47'34	
morning rise	6578 Jan 01 15:38	27°  41'41			6583 Nov 15 16:56	0° 	
	6578 Jan 21 05:21	0° 		evening set	6584 Feb 10 14:57	7°  05'48	
retrograde	6578 Apr 12 08:53	5°  12'40					
opposition	6578 Jun 19 00:59	1°  51'00	2°15'21	conjunction	6584 Feb 27 11:10	9°  06'41	-0°12'34
min. Earth dist.	6578 Jun 19 04:11	1°  50'23	8.50510 AU	minimum elong	6584 Feb 27 11:09	9°  06'41	0°12'32
	6578 Jul 14 00:30	30°  41'41		behind sun begin	6584 Feb 27 06:33	9°  05'19	
direct	6578 Aug 27 20:13	28°  24'24		behind sun end	6584 Feb 27 15:45	9°  08'03	
	6578 Oct 10 21:34	0° 		max. Earth dist.	6584 Feb 27 11:06	9°  06'40	10.84948 AU
evening set	6578 Dec 11 06:32	6°  10'18		morning rise	6584 Mar 15 05:48	11°  07'07	
				retrograde	6584 Jun 24 02:11	18°  17'58	
conjunction	6578 Dec 28 13:40	8°  17'58	1°42'15	opposition	6584 Sep 01 20:29	14°  59'06	-0°30'52
minimum elong	6578 Dec 28 13:42	8°  17'59	1°42'18	min. Earth dist.	6584 Sep 01 19:33	14°  59'17	8.86561 AU
max. Earth dist.	6578 Dec 28 09:36	8°  16'43	10.54202 AU	direct	6584 Nov 11 09:13	11°  38'32	
morning rise	6579 Jan 14 16:57	10°  32'48		evening set	6585 Feb 21 13:09	18°  53'06	
retrograde	6579 Apr 25 03:01	17°  34'56					
opposition	6579 Jul 02 03:14	14°  32'05	1°55'56	conjunction	6585 Mar 10 07:46	20°  53'13	-0°37'42
min. Earth dist.	6579 Jul 02 05:27	14°  32'39	8.58052 AU	minimum elong	6585 Mar 10 07:45	20°  53'12	0°37'41
direct	6579 Sep 10 05:54	11°  30'26		max. Earth dist.	6585 Mar 10 09:04	20°  53'36	10.87811 AU
evening set	6579 Dec 24 05:52	18°  34'31		morning rise	6585 Mar 27 01:24	22°  53'05	
					6585 Jun 27 00:36	0° 	
conjunction	6580 Jan 10 10:35	20°  34'15	1°24'25	retrograde	6585 Jul 06 07:36	0°  04'20	
minimum elong	6580 Jan 10 10:37	20°  34'16	1°24'28		6585 Jul 15 16:01	30° 	
max. Earth dist.	6580 Jan 10 07:48	20°  34'24	10.61717 AU	opposition	6585 Sep 14 09:07	26°  45'16	-1°00'51
morning rise	6580 Jan 27 11:27	22°  35'41		min. Earth dist.	6585 Sep 14 07:32	26°  45'34	8.88715 AU
	6580 Apr 20 00:51	0° 		direct	6585 Nov 23 17:38	23°  45'25	
retrograde	6580 May 06 17:30	0° 			6586 Feb 28 01:22	0° 	
	6580 May 23 12:57	30° 		evening set	6586 Mar 05 09:43	0° 	
opposition	6580 Jul 14 02:09	26°  35'43	1°31'24				
min. Earth dist.	6580 Jul 14 04:01	26°  35'41	8.65380 AU	conjunction	6586 Mar 22 02:57	2°  36'57	-1°01'10
direct	6580 Sep 22 10:39	23°  30'01		minimum elong	6586 Mar 22 02:55	2°  36'56	1°01'10
	6580 Dec 26 22:05	0° 		max. Earth dist.	6586 Mar 22 04:25	2°  37'23	10.89189 AU
evening set	6581 Jan 04 22:20	1°  03'44		morning rise	6586 Apr 07 20:09	4°  36'31	
				retrograde	6586 Jul 18 14:32	11°  49'14	
conjunction	6581 Jan 22 00:40	3°  08'14	1°02'55	opposition	6586 Sep 26 21:07	8°  29'47	-1°28'12
minimum elong	6581 Jan 22 00:42	3°  08'14	1°02'57	min. Earth dist.	6586 Sep 26 19:40	8°  30'04	8.89352 AU
max. Earth dist.	6581 Jan 21 22:30	3°  07'34	10.68843 AU	direct	6586 Dec 06 00:51	5°  10'27	
morning rise	6581 Feb 07 23:31	5°  11'43		evening set	6587 Mar 17 05:37	12°  20'49	
retrograde	6581 May 19 05:26	12°  28'14					
opposition	6581 Jul 26 22:17	9°  08'45	1°03'04	conjunction	6587 Apr 02 21:58	14°  20'10	-1°22'04
min. Earth dist.	6581 Jul 27 00:06	9°  08'25	8.72165 AU	minimum elong	6587 Apr 02 21:56	14°  20'09	1°22'05
direct	6581 Oct 05 09:31	5°  45'14		max. Earth dist.	6587 Apr 02 23:27	14°  20'36	10.89003 AU



morning rise	6587 Apr 19 15:11	16° $\Upsilon$ 19'46	morning rise	6593 Jun 30 14:34	28° $\Pi$ 43'12
retrograde	6587 Jul 30 22:06	23° $\Upsilon$ 34'57		6593 Jul 11 09:28	0° $\Theta$
opposition	6587 Oct 09 09:14	20° $\Upsilon$ 14'55 -1°51'53	retrograde	6593 Oct 14 01:39	6° $\Theta$ 27'33
min. Earth dist.	6587 Oct 09 07:24	20° $\Upsilon$ 15'16 8.88388 AU	opposition	6593 Dec 22 20:30	3° $\Theta$ 01'50 -2°13'50
direct	6587 Dec 18 06:12	16° $\Upsilon$ 55'54	min. Earth dist.	6593 Dec 22 17:13	3° $\Theta$ 02'29 8.54529 AU
evening set	6588 Mar 28 01:55	24° $\Upsilon$ 05'44		6594 Feb 09 08:36	30° $\kappa$ $\Pi$
			direct	6594 Feb 28 16:33	29° $\Pi$ 40'17
conjunction	6588 Apr 13 18:03	26° $\Upsilon$ 05'12 -1°39'33		6594 Mar 19 20:09	0° $\Theta$
minimum elong	6588 Apr 13 18:01	26° $\Upsilon$ 05'11 1°39'36	evening set	6594 Jun 09 03:56	7° $\Theta$ 07'28
max. Earth dist.	6588 Apr 13 20:23	26° $\Upsilon$ 05'54 10.87186 AU			
morning rise	6588 Apr 30 11:38	28° $\Upsilon$ 05'07	conjunction	6594 Jun 26 10:11	9° $\Theta$ 15'10 -1°41'06
	6588 May 17 06:08	0° $\mathcal{B}$	minimum elong	6594 Jun 26 10:14	9° $\Theta$ 15'11 1°41'09
retrograde	6588 Aug 11 08:37	5° $\mathcal{B}$ 23'50	max. Earth dist.	6594 Jun 26 14:08	9° $\Theta$ 16'24 10.50558 AU
opposition	6588 Oct 20 22:05	2° $\mathcal{B}$ 03'02 -2°10'59	morning rise	6594 Jul 13 20:25	11° $\Theta$ 24'08
min. Earth dist.	6588 Oct 20 19:27	2° $\mathcal{B}$ 03'32 8.85780 AU	retrograde	6594 Oct 27 13:32	19° $\Theta$ 13'34
	6588 Nov 19 10:04	30° $\kappa$ $\Upsilon$	opposition	6595 Jan 04 23:37	15° $\Theta$ 46'59 -1°53'54
direct	6588 Dec 29 13:00	28° $\Upsilon$ 44'09	min. Earth dist.	6595 Jan 04 20:23	15° $\Theta$ 47'37 8.46778 AU
	6589 Feb 06 13:14	0° $\mathcal{B}$	direct	6595 Mar 13 12:44	12° $\Theta$ 24'25
evening set	6589 Apr 08 23:58	5° $\mathcal{B}$ 54'34	evening set	6595 Jun 22 08:34	19° $\Theta$ 56'57
conjunction	6589 Apr 25 16:35	7° $\mathcal{B}$ 54'33 -1°52'55	conjunction	6595 Jul 09 19:03	22° $\Theta$ 06'50 -1°22'18
minimum elong	6589 Apr 25 16:33	7° $\mathcal{B}$ 54'32 1°52'58	minimum elong	6595 Jul 09 19:06	22° $\Theta$ 06'51 1°22'21
max. Earth dist.	6589 Apr 25 19:47	7° $\mathcal{B}$ 55'31 10.83751 AU	max. Earth dist.	6595 Jul 09 22:14	22° $\Theta$ 07'50 10.42959 AU
morning rise	6589 May 12 11:11	9° $\mathcal{B}$ 55'10	morning rise	6595 Jul 27 09:33	24° $\Theta$ 17'57
	6589 Jun 30 20:18	15° $\mathcal{B}$		6595 Sep 19 11:12	0° $\mathcal{Q}$
retrograde	6589 Aug 24 00:15	17° $\mathcal{B}$ 18'15	retrograde	6595 Nov 10 06:02	2° $\mathcal{Q}$ 11'55
	6589 Oct 19 06:01	15° $\kappa$ $\mathcal{B}$		6596 Jan 02 01:55	30° $\kappa$ $\Theta$
opposition	6589 Nov 02 12:18	13° $\mathcal{B}$ 56'35 -2°24'39	opposition	6596 Jan 18 06:00	28° $\Theta$ 44'38 -1°27'51
min. Earth dist.	6589 Nov 02 09:08	13° $\mathcal{B}$ 57'11 8.81609 AU	min. Earth dist.	6596 Jan 18 03:26	28° $\Theta$ 45'09 8.39359 AU
direct	6590 Jan 10 18:20	10° $\mathcal{B}$ 37'35	direct	6596 Mar 25 12:41	25° $\Theta$ 21'00
	6590 Mar 26 21:18	15° $\mathcal{B}$		6596 Jun 09 07:27	0° $\mathcal{Q}$
evening set	6590 Apr 21 00:52	17° $\mathcal{B}$ 49'40	evening set	6596 Jul 04 20:16	2° $\mathcal{Q}$ 59'11
conjunction	6590 May 07 18:37	19° $\mathcal{B}$ 50'32 -2°01'32	conjunction	6596 Jul 22 10:58	5° $\mathcal{Q}$ 11'11 -0°59'00
minimum elong	6590 May 07 18:36	19° $\mathcal{B}$ 50'31 2°01'35	minimum elong	6596 Jul 22 11:00	5° $\mathcal{Q}$ 11'12 0°59'02
max. Earth dist.	6590 May 07 21:33	19° $\mathcal{B}$ 51'25 10.78862 AU	max. Earth dist.	6596 Jul 22 13:01	5° $\mathcal{Q}$ 11'50 10.35879 AU
morning rise	6590 May 24 15:07	21° $\mathcal{B}$ 52'15	morning rise	6596 Aug 09 05:30	7° $\mathcal{Q}$ 24'22
retrograde	6590 Sep 05 18:29	29° $\mathcal{B}$ 20'17		6596 Nov 02 11:26	15° $\mathcal{Q}$
opposition	6590 Nov 15 04:32	25° $\mathcal{B}$ 57'40 -2°32'12	retrograde	6596 Nov 23 00:53	15° $\mathcal{Q}$ 22'06
min. Earth dist.	6590 Nov 15 01:41	25° $\mathcal{B}$ 58'12 8.76094 AU		6596 Dec 13 14:03	15° $\kappa$ $\mathcal{Q}$
direct	6591 Jan 23 00:24	22° $\mathcal{B}$ 38'19	opposition	6597 Jan 30 15:23	11° $\mathcal{Q}$ 54'19 -0°56'47
evening set	6591 May 03 05:40	29° $\mathcal{B}$ 53'03	min. Earth dist.	6597 Jan 30 13:52	11° $\mathcal{Q}$ 54'37 8.32646 AU
	6591 May 04 04:57	0° $\Pi$	direct	6597 Apr 07 18:43	8° $\mathcal{Q}$ 29'35
				6597 Jul 08 13:48	15° $\mathcal{Q}$
conjunction	6591 May 20 01:19	1° $\Pi$ 55'09 -2°04'54	evening set	6597 Jul 18 15:20	16° $\mathcal{Q}$ 13'33
minimum elong	6591 May 20 01:19	1° $\Pi$ 55'09 2°04'56			
max. Earth dist.	6591 May 20 03:51	1° $\Pi$ 55'55 10.72783 AU	conjunction	6597 Aug 05 09:54	18° $\mathcal{Q}$ 27'30 -0°32'16
morning rise	6591 Jun 06 00:28	3° $\Pi$ 58'17	minimum elong	6597 Aug 05 09:55	18° $\mathcal{Q}$ 27'30 0°32'19
retrograde	6591 Sep 18 15:35	11° $\Pi$ 31'41	max. Earth dist.	6597 Aug 05 11:16	18° $\mathcal{Q}$ 27'56 10.29671 AU
opposition	6591 Nov 27 23:05	8° $\Pi$ 08'02 -2°33'06	morning rise	6597 Aug 23 07:40	20° $\mathcal{Q}$ 42'26
min. Earth dist.	6591 Nov 27 20:35	8° $\Pi$ 08'31 8.69527 AU	retrograde	6597 Dec 06 21:44	28° $\mathcal{Q}$ 42'57
direct	6592 Feb 04 11:15	4° $\Pi$ 48'06	opposition	6598 Feb 13 03:17	25° $\mathcal{Q}$ 14'53 -0°22'12
evening set	6592 May 14 15:10	12° $\Pi$ 06'18	min. Earth dist.	6598 Feb 13 02:20	25° $\mathcal{Q}$ 15'05 8.26991 AU
			direct	6598 Apr 21 06:01	21° $\mathcal{Q}$ 49'07
conjunction	6592 May 31 13:41	14° $\Pi$ 10'00 -2°02'40	evening set	6598 Aug 01 17:01	29° $\mathcal{Q}$ 38'42
minimum elong	6592 May 31 13:43	14° $\Pi$ 10'01 2°02'42		6598 Aug 04 13:21	0° $\mathcal{P}$
max. Earth dist.	6592 May 31 16:37	14° $\Pi$ 10'54 10.65823 AU			
morning rise	6592 Jun 17 16:05	16° $\Pi$ 14'52	conjunction	6598 Aug 19 14:40	1° $\mathcal{P}$ 54'13 -0°03'33
retrograde	6592 Sep 30 18:20	23° $\Pi$ 53'47	minimum elong	6598 Aug 19 14:41	1° $\mathcal{P}$ 54'14 0°03'35
opposition	6592 Dec 09 20:23	20° $\Pi$ 29'05 -2°27'00	behind sun begin	6598 Aug 19 07:26	1° $\mathcal{P}$ 51'57
min. Earth dist.	6592 Dec 09 17:42	20° $\Pi$ 29'36 8.62231 AU	behind sun end	6598 Aug 19 21:55	1° $\mathcal{P}$ 56'30
direct	6593 Feb 16 00:15	17° $\Pi$ 08'24	max. Earth dist.	6598 Aug 19 15:41	1° $\mathcal{P}$ 54'31 10.24669 AU
evening set	6593 May 27 06:15	24° $\Pi$ 30'46	morning rise	6598 Sep 06 14:35	4° $\mathcal{P}$ 10'28
			asc. node	6598 Oct 03 17:42	7° $\mathcal{P}$ 22'28
conjunction	6593 Jun 13 08:26	26° $\Pi$ 36'22 -1°54'42	retrograde	6598 Dec 20 21:06	12° $\mathcal{P}$ 12'41
minimum elong	6593 Jun 13 08:28	26° $\Pi$ 36'22 1°54'45	opposition	6599 Feb 26 17:36	8° $\mathcal{P}$ 44'35 0°14'02
max. Earth dist.	6593 Jun 13 12:21	26° $\Pi$ 37'34 10.58302 AU	min. Earth dist.	6599 Feb 26 16:48	8° $\mathcal{P}$ 44'45 8.22711 AU

direct	6599 May 04 20:16	5° <u>17</u> '55	
evening set	6599 Aug 16 00:16	13° <u>12</u> '35	
conjunction	6599 Sep 02 23:54	15° <u>17</u> '29'12	0°25'45
minimum elong	6599 Sep 02 23:53	15° <u>17</u> '29'11	0°25'44
max. Earth dist.	6599 Sep 03 00:36	15° <u>17</u> '29'25	10.21165 AU
morning rise	6599 Sep 21 00:42	17° <u>17</u> '46'13	
retrograde	6600 Jan 03 22:23	25° <u>17</u> '48'53	
opposition	6600 Mar 12 09:44	22° <u>17</u> '21'01	0°49'47
min. Earth dist.	6600 Mar 12 09:06	22° <u>17</u> '21'08	8.20064 AU
direct	6600 May 18 14:15	18° <u>17</u> '53'36	
evening set	6600 Aug 30 11:56	26° <u>17</u> '52'35	
conjunction	6600 Sep 17 12:17	29° <u>17</u> '09'41	0°53'41
minimum elong	6600 Sep 17 12:15	29° <u>17</u> '09'41	0°53'41
max. Earth dist.	6600 Sep 17 12:16	29° <u>17</u> '09'41	10.19379 AU
	6600 Sep 24 01:51	0° <u>17</u> '	
morning rise	6600 Oct 05 12:43	1° <u>17</u> '26'53	
retrograde	6601 Jan 17 22:30	9° <u>17</u> '28'38	
opposition	6601 Mar 26 02:51	6° <u>17</u> '01'16	1°22'53
min. Earth dist.	6601 Mar 26 02:59	6° <u>17</u> '01'15	8.19219 AU
direct	6601 Jun 01 11:51	2° <u>17</u> '33'19	
evening set	6601 Sep 14 02:00	10° <u>17</u> '35'31	
conjunction	6601 Oct 02 01:47	12° <u>17</u> '52'30	1°18'38
minimum elong	6601 Oct 02 01:45	12° <u>17</u> '52'29	1°18'39
max. Earth dist.	6601 Oct 02 00:28	12° <u>17</u> '52'04	10.19433 AU
morning rise	6601 Oct 20 00:42	15° <u>17</u> '09'16	