


























































































































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evening set	6100 Jan 24 20:33	15°♊18'58			6105 May 27 07:45	0°♏	
max. Earth dist.	6100 Feb 04 07:51	17°♊39'00	6.33438 AU	evening set	6105 Jul 20 10:03	11°♏46'05	
conjunction	6100 Feb 06 14:23	18°♊09'31	0°04'36	conjunction	6105 Aug 03 02:30	14°♏59'08	-0°07'34
minimum elong	6100 Feb 06 14:23	18°♊09'31	0°04'38	minimum elong	6105 Aug 03 02:30	14°♏59'08	0°07'35
behind sun begin	6100 Feb 06 06:36	18°♊05'10		behind sun begin	6105 Aug 02 18:55	14°♏54'42	
behind sun end	6100 Feb 06 22:11	18°♊13'51		behind sun end	6105 Aug 03 10:05	15°♏03'35	
morning rise	6100 Feb 19 06:56	20°♊59'40			6105 Aug 03 04:00	15°♏	
	6100 Apr 03 03:57	0°♋		max. Earth dist.	6105 Aug 05 14:09	15°♏34'15	6.03746 AU
desc. node	6100 Apr 07 18:36	0°♋51'45		morning rise	6105 Aug 16 20:28	18°♏12'42	
retrograde	6100 Jun 22 18:23	8°♋44'30			6105 Oct 10 16:39	0°♐	
opposition	6100 Aug 22 13:11	3°♋51'42	-0°15'18	asc. node	6105 Nov 01 10:10	3°♐38'47	
min. Earth dist.	6100 Aug 24 04:08	3°♋39'13	4.25847 AU	retrograde	6105 Dec 23 20:18	7°♐48'57	
	6100 Sep 26 03:14	30°♋		min. Earth dist.	6106 Feb 19 22:39	2°♐56'54	4.11254 AU
direct	6100 Oct 23 06:04	28°♋52'56		opposition	6106 Feb 21 11:13	2°♐44'30	0°13'41
	6100 Nov 19 06:12	0°♋			6106 Mar 14 22:30	30°♋♏	
evening set	6101 Feb 25 18:36	17°♋18'53		direct	6106 Apr 21 07:37	27°♏45'37	
max. Earth dist.	6101 Mar 08 12:07	19°♋47'38	6.17726 AU		6106 May 28 21:55	0°♐	
				evening set	6106 Aug 25 19:37	16°♐34'02	
conjunction	6101 Mar 10 12:38	20°♋15'45	-0°25'09	conjunction	6106 Sep 08 11:35	19°♐39'42	0°24'28
minimum elong	6101 Mar 10 12:36	20°♋15'45	0°25'09	minimum elong	6106 Sep 08 11:33	19°♐39'41	0°24'26
morning rise	6101 Mar 23 06:39	23°♋12'56		max. Earth dist.	6106 Sep 10 15:09	20°♐08'55	6.19446 AU
	6101 Apr 22 15:53	0°♑		morning rise	6106 Sep 22 03:36	22°♐45'02	
retrograde	6101 Jul 28 03:21	12°♑07'55			6106 Oct 25 16:52	0°♑	
opposition	6101 Sep 26 14:57	7°♑13'13	-0°56'42	retrograde	6107 Jan 25 13:47	11°♑07'20	
min. Earth dist.	6101 Sep 27 17:29	7°♑04'37	4.09580 AU	min. Earth dist.	6107 Mar 25 10:43	6°♑14'06	4.27462 AU
direct	6101 Nov 25 22:06	2°♑16'54		opposition	6107 Mar 26 13:26	6°♑05'09	0°54'43
evening set	6102 Mar 31 17:35	21°♑30'36		direct	6107 May 25 16:22	1°♑04'09	
				evening set	6107 Sep 29 02:19	19°♑07'49	
conjunction	6102 Apr 13 14:48	24°♑35'26	-0°47'54	conjunction	6107 Oct 12 13:42	22°♑04'57	0°46'56
minimum elong	6102 Apr 13 14:46	24°♑35'26	0°47'55	minimum elong	6107 Oct 12 13:40	22°♑04'56	0°46'57
max. Earth dist.	6102 Apr 12 14:28	24°♑20'51	6.02330 AU	max. Earth dist.	6107 Oct 13 16:47	22°♑19'48	6.34863 AU
morning rise	6102 Apr 26 13:24	27°♑41'19		morning rise	6107 Oct 25 23:35	25°♑01'07	
	6102 May 06 07:52	0°♒			6107 Nov 18 10:02	0°♒	
retrograde	6102 Jul 23 05:00	15°♒		retrograde	6108 Feb 25 10:29	12°♒22'05	
	6102 Sep 03 23:02	17°♒48'41		opposition	6108 Apr 25 18:02	7°♒23'27	1°16'43
opposition	6102 Nov 02 22:09	12°♒50'53	-1°20'24	min. Earth dist.	6108 Apr 25 09:44	7°♒26'11	4.40936 AU
min. Earth dist.	6102 Nov 03 03:24	12°♒49'08	3.96523 AU	direct	6108 Jun 26 04:58	2°♒21'27	
direct	6102 Dec 31 19:47	7°♒56'32			6108 Oct 06 23:29	15°♒	
	6103 Mar 10 03:26	15°♒		evening set	6108 Oct 30 08:00	19°♒52'40	
evening set	6103 May 06 22:03	27°♒47'12					
	6103 May 16 00:25	0°♓		conjunction	6108 Nov 12 13:15	22°♒43'07	0°54'54
conjunction	6103 May 20 01:51	0°♓59'25	-0°53'38	minimum elong	6108 Nov 12 13:15	22°♒43'07	0°54'56
minimum elong	6103 May 20 01:51	0°♓59'26	0°53'40	max. Earth dist.	6108 Nov 12 10:32	22°♒41'39	6.45398 AU
max. Earth dist.	6103 May 20 13:03	1°♓06'15	5.92880 AU	morning rise	6108 Nov 25 16:19	25°♒32'24	
morning rise	6103 Jun 02 08:09	4°♓13'08			6108 Dec 16 23:27	0°♔	
retrograde	6103 Oct 12 16:38	25°♓02'13		retrograde	6109 Mar 26 06:19	12°♔17'27	
min. Earth dist.	6103 Dec 10 11:17	20°♓07'20	3.91867 AU	opposition	6109 May 25 22:25	7°♔22'05	1°17'02
opposition	6103 Dec 11 06:48	20°♓00'46	-1°12'46	min. Earth dist.	6109 May 26 09:19	7°♔18'34	4.47984 AU
direct	6104 Feb 07 05:43	15°♓06'36		direct	6109 Jul 27 07:24	2°♔19'55	
	6104 May 22 03:42	0°♕		evening set	6109 Nov 30 04:09	19°♔37'19	
evening set	6104 Jun 12 15:23	5°♕05'03		max. Earth dist.	6109 Dec 11 23:17	22°♔09'02	6.48447 AU
				conjunction	6109 Dec 13 03:59	22°♔24'28	0°47'56
conjunction	6104 Jun 26 02:48	8°♕20'42	-0°37'59	minimum elong	6109 Dec 13 04:00	22°♔24'29	0°47'58
minimum elong	6104 Jun 26 02:50	8°♕20'43	0°38'00	morning rise	6109 Dec 26 01:12	25°♔10'28	
max. Earth dist.	6104 Jun 27 22:16	8°♕47'01	5.93434 AU		6110 Jan 18 03:57	0°♕	
morning rise	6104 Jul 09 17:09	11°♕37'43		retrograde	6110 Apr 25 05:20	11°♕48'56	
	6104 Oct 12 01:05	0°♌		opposition	6110 Jun 25 02:54	6°♕55'52	0°57'23
retrograde	6104 Nov 18 10:10	2°♌13'28		min. Earth dist.	6110 Jun 26 06:33	6°♕47'02	4.46937 AU
	6104 Dec 25 16:28	30°♌		direct	6110 Aug 26 21:00	1°♕54'16	
min. Earth dist.	6105 Jan 15 10:35	27°♕21'22	3.97609 AU	evening set	6110 Dec 30 12:10	19°♕18'23	
opposition	6105 Jan 16 22:09	27°♕09'15	-0°35'25				

max. Earth dist.	6111 Jan 10 07:04	21°  39'15	6.43334 AU	minimum elong	6116 Jul 01 09:12	13°  34'50	0°34'23
conjunction	6111 Jan 12 07:51	22°  05'54	0°28'16	max. Earth dist.	6116 Jul 03 08:46	14°  03'32	5.94710 AU
minimum elong	6111 Jan 12 07:52	22°  05'54	0°28'18	morning rise	6116 Jul 15 00:04	16°  51'29	
morning rise	6111 Jan 25 01:37	24°  52'36		retrograde	6116 Sep 13 06:50	0° 	
	6111 Feb 18 05:50	0° 		min. Earth dist.	6117 Jan 20 10:46	2°  02'32	3.99388 AU
retrograde	6111 May 26 10:03	11°  54'45		opposition	6117 Jan 21 22:13	2°  15'28	-0°28'50
opposition	6111 Jul 26 07:50	7°  02'28	0°22'03		6117 Feb 08 04:34	30° 	
min. Earth dist.	6111 Jul 27 22:07	6°  50'16	4.38048 AU	direct	6117 Mar 21 00:07	27°  51'56	
direct	6111 Sep 26 19:28	2°  02'05			6117 Apr 30 16:13	0° 	
	6112 Jan 07 20:17	15° 			6117 Jul 17 21:26	15° 	
evening set	6112 Jan 30 06:53	19°  52'38		evening set	6117 Jul 25 11:45	16°  04'53	
max. Earth dist.	6112 Feb 09 18:27	22°  13'29	6.31304 AU				
conjunction	6112 Feb 12 00:45	22°  13'29		conjunction	6117 Aug 08 04:21	19°  02'52	-0°02'59
minimum elong	6112 Feb 12 00:43	22°  43'59	0°00'18	minimum elong	6117 Aug 08 04:19	19°  02'52	0°03'00
behind sun begin	6112 Feb 11 16:47	22°  39'33		behind sun begin	6117 Aug 07 19:58	19°  02'52	
behind sun end	6112 Feb 12 08:40	22°  48'26		behind sun end	6117 Aug 08 12:41	20°  02'44	
desc. node	6112 Feb 15 14:26	23°  32'11		max. Earth dist.	6117 Aug 10 15:26	20°  02'27	6.05843 AU
morning rise	6112 Feb 24 17:18	25°  35'01		morning rise	6117 Aug 21 22:25	23°  01'07	
	6112 Mar 15 20:03	0° 		asc. node	6117 Sep 12 09:08	28°  02'53	
retrograde	6112 Jun 27 14:07	13°  28'56			6117 Sep 21 08:22	0° 	
opposition	6112 Aug 27 09:15	8°  35'56	-0°21'38	retrograde	6117 Dec 28 09:49	12°  36'24	
min. Earth dist.	6112 Aug 28 21:57	8°  24'09	4.23584 AU	min. Earth dist.	6118 Feb 24 14:21	7°  44'28	4.13463 AU
direct	6112 Oct 27 20:59	3°  37'33		opposition	6118 Feb 26 02:30	7°  32'13	0°20'07
evening set	6113 Mar 02 11:18	22°  09'56		direct	6118 Apr 26 01:53	2°  33'00	
max. Earth dist.	6113 Mar 13 08:36	24°  41'38	6.15540 AU	evening set	6118 Aug 30 14:47	21°  15'15	
conjunction	6113 Mar 15 05:30	25°  07'48	-0°29'03	conjunction	6118 Sep 13 06:18	24°  19'47	0°28'15
minimum elong	6113 Mar 15 05:29	25°  07'47	0°29'02	minimum elong	6118 Sep 13 06:16	24°  19'46	0°28'15
morning rise	6113 Mar 27 23:54	28°  06'04		max. Earth dist.	6118 Sep 15 05:53	24°  46'38	6.21588 AU
	6113 Apr 05 05:43	0° 		morning rise	6118 Sep 26 21:39	27°  23'54	
retrograde	6113 Aug 02 09:55	17°  11'02			6118 Oct 08 15:35	0° 	
opposition	6113 Oct 01 18:55	12°  15'58	-1°01'30	retrograde	6119 Jan 29 22:51	15°  37'25	
min. Earth dist.	6113 Oct 02 19:17	12°  08'02	4.07662 AU	opposition	6119 Mar 30 22:09	10°  35'46	0°58'57
direct	6113 Nov 30 22:24	7°  19'57		min. Earth dist.	6119 Mar 29 22:46	10°  43'35	4.29362 AU
evening set	6114 Apr 05 17:11	26°  09'48		direct	6119 May 30 06:23	5°  34'36	
conjunction	6114 Apr 18 15:07	29°  09'48		evening set	6119 Oct 03 15:00	23°  33'51	
minimum elong	6114 Apr 18 15:06	29°  09'47		conjunction	6119 Oct 17 01:39	26°  30'04	0°48'54
max. Earth dist.	6114 Apr 17 19:40	29°  32'55	6.00870 AU	minimum elong	6119 Oct 17 01:38	26°  30'04	0°48'55
	6114 Apr 19 16:44	0° 		max. Earth dist.	6119 Oct 18 01:04	26°  42'53	6.36384 AU
morning rise	6114 May 01 14:35	2°  51'31		morning rise	6119 Oct 30 10:39	29°  25'16	
	6114 Jun 25 16:32	15° 			6119 Nov 02 02:45	0° 	
retrograde	6114 Sep 09 07:51	23°  05'33		retrograde	6120 Jan 27 13:34	15° 	
opposition	6114 Nov 08 06:30	18°  07'15	-1°21'18		6120 Feb 29 13:35	16°  40'50	
min. Earth dist.	6114 Nov 08 07:32	18°  06'54	3.95709 AU	opposition	6120 Apr 02 11:29	15° 	
	6114 Dec 03 20:21	15° 		min. Earth dist.	6120 Apr 29 16:27	11°  44'47	4.42017 AU
direct	6115 Jan 05 23:16	13°  13'05		direct	6120 Jun 30 12:03	6°  40'41	
	6115 Feb 07 20:08	15° 			6120 Sep 18 22:46	15° 	
	6115 Apr 29 06:15	0° 		evening set	6120 Nov 03 16:13	24°  10'06	
evening set	6115 May 12 02:47	3° 		conjunction	6120 Nov 16 20:43	27°  10'02	0°54'45
conjunction	6115 May 25 07:24	6°  17'43	-0°52'40	minimum elong	6120 Nov 16 20:43	27°  10'02	0°54'48
minimum elong	6115 May 25 07:25	6°  17'43	0°52'42	max. Earth dist.	6120 Nov 16 14:31	26°  15'42	6.45979 AU
max. Earth dist.	6115 May 25 22:38	6°  27'00	5.92771 AU	morning rise	6120 Nov 29 22:52	29°  14'47	
morning rise	6115 Jun 07 14:52	9°  31'58			6120 Nov 30 19:53	0° 	
	6115 Oct 03 12:36	0° 		retrograde	6121 Mar 30 10:28	16°  32'10	
retrograde	6115 Oct 17 23:00	0° 		opposition	6121 May 30 02:46	11°  37'17	1°15'22
	6115 Nov 01 08:53	30° 		min. Earth dist.	6121 May 30 16:21	11°  32'54	4.48055 AU
opposition	6115 Dec 16 13:40	25°  18'43	-1°09'00	direct	6121 Jul 31 14:02	6°  35'13	
min. Earth dist.	6115 Dec 15 15:08	25°  12'19	3.92481 AU	evening set	6121 Dec 04 10:14	23°  37'15	
direct	6116 Feb 12 12:19	20°  24'18		max. Earth dist.	6121 Dec 16 00:26	26°  37'23	6.47994 AU
	6116 May 03 09:02	0° 		conjunction	6121 Dec 17 09:21	26°  40'20	0°45'50
evening set	6116 Jun 17 20:46	10° 		minimum elong	6121 Dec 17 09:22	26°  40'21	0°45'51
conjunction	6116 Jul 01 09:10	13°  34'49	-0°34'22	morning rise	6121 Dec 30 06:08	29°  37'21	

	6122 Jan 01 21:07	0°♂			6127 Dec 26 08:42	30°♄♂
retrograde	6122 Apr 29 12:41	16°♂06'57		direct	6128 Feb 17 17:47	25°♂♂42'05
opposition	6122 Jun 29 10:01	11°♂♂14'05	0°53'12		6128 Apr 09 12:42	0°♂♂
min. Earth dist.	6122 Jun 30 15:28	11°♂♂04'40	4.46004 AU	evening set	6128 Jun 23 02:54	15°♂♂35'17
direct	6122 Aug 31 04:03	6°♂♂12'36				
evening set	6123 Jan 03 18:37	23°♂♂39'36		conjunction	6128 Jul 06 16:06	18°♂♂50'41 -0°30'28
max. Earth dist.	6123 Jan 14 13:23	26°♂♂00'50	6.41984 AU	minimum elong	6128 Jul 06 16:07	18°♂♂50'42 0°30'30
				max. Earth dist.	6128 Jul 08 17:50	19°♂♂20'36 5.95638 AU
conjunction	6123 Jan 16 14:04	26°♂♂27'30	0°24'41	morning rise	6128 Jul 20 07:56	22°♂♂07'17
minimum elong	6123 Jan 16 14:05	26°♂♂27'31	0°24'43		6128 Aug 23 15:51	0°♂♂
morning rise	6123 Jan 29 07:23	29°♂♂14'36		retrograde	6128 Nov 28 10:19	12°♂♂29'24
	6123 Feb 01 18:55	0°♂♂		min. Earth dist.	6129 Jan 25 09:49	7°♂♂37'31 4.00834 AU
	6123 Apr 30 20:35	15°♂♂		opposition	6129 Jan 26 22:53	7°♂♂24'54 -0°22'01
retrograde	6123 May 30 21:14	16°♂♂22'19		direct	6129 Mar 26 01:52	2°♂♂27'59
	6123 Jun 30 01:03	15°♂♂			6129 Jun 30 07:24	15°♂♂
opposition	6123 Jul 30 19:57	11°♂♂30'02	0°16'09	asc. node	6129 Jul 23 03:24	20°♂♂06'12
min. Earth dist.	6123 Aug 01 09:56	11°♂♂17'56	4.36356 AU	evening set	6129 Jul 30 15:05	21°♂♂49'53
direct	6123 Oct 01 04:41	6°♂♂29'55				
	6123 Dec 20 15:16	15°♂♂		conjunction	6129 Aug 13 07:51	25°♂♂01'16 0°01'48
desc. node	6123 Dec 26 01:46	16°♂♂02'03		minimum elong	6129 Aug 13 07:51	25°♂♂01'15 0°01'47
evening set	6124 Feb 03 16:48	24°♂♂25'14		behind sun begin	6129 Aug 12 23:27	24°♂♂56'23
max. Earth dist.	6124 Feb 14 04:18	26°♂♂46'43	6.29374 AU	behind sun end	6129 Aug 13 16:14	25°♂♂06'07
				max. Earth dist.	6129 Aug 15 17:49	25°♂♂35'02 6.07669 AU
conjunction	6124 Feb 16 10:22	27°♂♂17'15	-0°04'02	morning rise	6129 Aug 27 01:55	28°♂♂12'57
minimum elong	6124 Feb 16 10:22	27°♂♂17'15	0°04'02		6129 Sep 03 20:29	0°♂♂
behind sun begin	6124 Feb 16 02:30	27°♂♂12'50		retrograde	6130 Jan 02 03:31	17°♂♂29'40
behind sun end	6124 Feb 16 18:14	27°♂♂21'40		min. Earth dist.	6130 Mar 01 09:49	12°♂♂37'17 4.15467 AU
	6124 Feb 28 10:54	0°♂♂		opposition	6130 Mar 02 20:03	12°♂♂25'42 0°26'30
morning rise	6124 Feb 29 03:05	0°♂♂09'05		direct	6130 May 01 00:33	7°♂♂26'09
retrograde	6124 Jul 02 11:04	18°♂♂11'26		evening set	6130 Sep 04 12:19	26°♂♂02'44
opposition	6124 Sep 01 04:20	13°♂♂18'12	-0°27'48			
min. Earth dist.	6124 Sep 02 16:37	13°♂♂06'32	4.21512 AU	conjunction	6130 Sep 18 03:28	29°♂♂06'12 0°31'57
direct	6124 Nov 01 13:09	8°♂♂20'04		minimum elong	6130 Sep 18 03:27	29°♂♂06'11 0°31'57
evening set	6125 Mar 07 02:32	26°♂♂58'20		max. Earth dist.	6130 Sep 20 01:51	29°♂♂32'15 6.23623 AU
max. Earth dist.	6125 Mar 18 02:58	29°♂♂32'32	6.13487 AU		6130 Sep 22 03:16	0°♂♂
				morning rise	6130 Oct 01 18:03	2°♂♂09'06
conjunction	6125 Mar 19 21:08	29°♂♂57'12	-0°32'42	retrograde	6131 Feb 03 08:00	20°♂♂13'54
minimum elong	6125 Mar 19 21:07	29°♂♂57'11	0°32'42	min. Earth dist.	6131 Apr 03 10:38	15°♂♂20'12 4.31289 AU
	6125 Mar 20 01:55	0°♂♂		opposition	6131 Apr 04 09:04	15°♂♂12'43 1°02'57
morning rise	6125 Apr 01 15:57	2°♂♂56'32		direct	6131 Jun 03 20:21	10°♂♂11'26
retrograde	6125 Aug 07 12:49	22°♂♂11'06		evening set	6131 Oct 08 06:07	28°♂♂05'53
opposition	6125 Oct 06 21:06	17°♂♂15'38	-1°05'49		6131 Oct 16 23:57	0°♂♂
min. Earth dist.	6125 Oct 07 18:27	17°♂♂08'41	4.05806 AU			
direct	6125 Dec 05 18:43	12°♂♂19'57		conjunction	6131 Oct 21 15:50	1°♂♂01'03 0°50'40
	6126 Apr 03 08:24	0°♂♂		minimum elong	6131 Oct 21 15:48	1°♂♂01'02 0°50'40
evening set	6126 Apr 10 15:21	1°♂♂44'04		max. Earth dist.	6131 Oct 22 10:54	1°♂♂11'27 6.38091 AU
				morning rise	6131 Nov 03 23:56	3°♂♂55'11
conjunction	6126 Apr 23 13:54	4°♂♂50'51	-0°51'32		6131 Dec 30 03:04	15°♂♂
minimum elong	6126 Apr 23 13:53	4°♂♂50'51	0°51'33	retrograde	6132 Mar 04 20:27	21°♂♂04'28
max. Earth dist.	6126 Apr 22 22:02	4°♂♂41'17	5.99365 AU	opposition	6132 May 04 05:48	16°♂♂06'51 1°18'56
morning rise	6126 May 06 14:23	7°♂♂58'53		min. Earth dist.	6132 May 04 02:32	16°♂♂07'55 4.43419 AU
	6126 Jun 05 19:42	15°♂♂			6132 May 12 19:42	15°♂♂
retrograde	6126 Sep 14 15:19	28°♂♂20'06		direct	6132 Jul 04 23:43	11°♂♂04'48
opposition	6126 Nov 13 13:16	23°♂♂21'15	-1°21'35		6132 Aug 27 00:34	15°♂♂
min. Earth dist.	6126 Nov 13 10:58	23°♂♂22'01	3.94716 AU	evening set	6132 Nov 08 01:23	28°♂♂30'46
direct	6127 Jan 11 03:18	18°♂♂27'07			6132 Nov 15 00:08	0°♂♂
	6127 Apr 11 08:45	0°♂♂				
evening set	6127 May 17 06:43	8°♂♂21'24		conjunction	6132 Nov 21 05:06	1°♂♂20'00 0°54'22
				minimum elong	6132 Nov 21 05:06	1°♂♂20'01 0°54'24
conjunction	6127 May 30 12:36	11°♂♂34'50	-0°51'17	max. Earth dist.	6132 Nov 20 19:54	1°♂♂15'04 6.46993 AU
minimum elong	6127 May 30 12:38	11°♂♂34'50	0°51'20	morning rise	6132 Dec 04 06:21	4°♂♂08'01
max. Earth dist.	6127 May 31 09:52	11°♂♂47'47	5.92401 AU	retrograde	6133 Apr 03 13:44	20°♂♂48'15
morning rise	6127 Jun 12 21:03	14°♂♂49'45		opposition	6133 Jun 03 08:02	15°♂♂53'40 1°13'21
	6127 Aug 22 16:26	0°♂♂		min. Earth dist.	6133 Jun 03 22:56	15°♂♂48'51 4.48644 AU
retrograde	6127 Oct 23 07:05	5°♂♂39'07		direct	6133 Aug 04 20:27	10°♂♂51'39
opposition	6127 Dec 21 19:50	0°♂♂36'43	-1°04'44	evening set	6133 Dec 08 15:45	28°♂♂08'12
min. Earth dist.	6127 Dec 20 19:40	0°♂♂44'53	3.92786 AU		6133 Dec 17 08:11	0°♂♂

max. Earth dist.	6133 Dec 20 03:55	0° B 36'29	6.48126 AU	max. Earth dist.	6139 Jun 05 16:23	17° II 01'39	5.91624 AU
				morning rise	6139 Jun 18 01:58	20° II 02'45	
conjunction	6133 Dec 21 14:12	0° B 54'58	0°43'33		6139 Jul 31 10:43	0° B	
minimum elong	6133 Dec 21 14:13	0° B 54'58	0°43'35	retrograde	6139 Oct 28 12:18	10° B 54'29	
morning rise	6134 Jan 03 10:11	3° B 40'38		min. Earth dist.	6139 Dec 25 21:11	6° B 01'02	3.92672 AU
retrograde	6134 May 03 17:35	20° B 21'29		opposition	6139 Dec 27 00:42	5° B 51'43	-1°00'04
opposition	6134 Jul 03 16:04	15° B 28'48	0°48'50	direct	6140 Feb 22 19:56	0° B 56'55	
min. Earth dist.	6134 Jul 04 23:18	15° B 18'50	4.45653 AU	evening set	6140 Jun 28 08:57	20° B 50'11	
direct	6134 Sep 04 10:50	10° B 27'28					
evening set	6135 Jan 07 23:07	27° B 55'18		conjunction	6140 Jul 11 23:05	24° B 05'46	-0°26'24
	6135 Jan 17 11:07	0° \approx		minimum elong	6140 Jul 11 23:07	24° B 05'47	0°26'25
max. Earth dist.	6135 Jan 18 14:26	0° \approx 15'00	6.41162 AU	max. Earth dist.	6140 Jul 14 03:13	24° B 37'04	5.96202 AU
				morning rise	6140 Jul 25 15:40	27° B 22'25	
conjunction	6135 Jan 20 17:58	0° \approx 43'18	0°21'06		6140 Aug 05 18:54	0° Ω	
minimum elong	6135 Jan 20 17:59	0° \approx 43'18	0°21'08		6140 Oct 23 09:19	15° Ω	
morning rise	6135 Feb 02 11:06	3° \approx 30'37		retrograde	6140 Dec 03 12:10	17° Ω 39'51	
	6135 Apr 01 13:02	15° \approx			6141 Jan 13 12:33	15° R Ω	
retrograde	6135 Jun 04 07:10	20° \approx 42'25		min. Earth dist.	6141 Jan 30 10:38	12° Ω 47'55	4.01987 AU
opposition	6135 Aug 04 05:37	15° \approx 50'03	0°10'25	opposition	6141 Jan 31 23:51	12° Ω 35'14	-0°15'08
min. Earth dist.	6135 Aug 05 20:28	15° \approx 37'39	4.35080 AU	direct	6141 Mar 31 05:49	7° Ω 37'56	
	6135 Aug 10 18:59	15° R \approx		asc. node	6141 Jun 02 03:55	13° Ω 36'58	
direct	6135 Oct 05 12:46	10° \approx 50'04			6141 Jun 09 22:34	15° Ω	
desc. node	6135 Nov 07 03:22	12° \approx 24'38		evening set	6141 Aug 04 19:30	26° Ω 56'03	
	6135 Nov 28 18:53	15° \approx					
evening set	6136 Feb 07 23:03	28° \approx 48'48		conjunction	6141 Aug 18 12:32	0° H 06'46	0°06'26
	6136 Feb 13 05:29	0° H		minimum elong	6141 Aug 18 12:32	0° H 06'46	0°06'25
max. Earth dist.	6136 Feb 18 11:30	1° H 11'17	6.27738 AU	behind sun begin	6141 Aug 18 04:39	0° H 02'13	
				behind sun end	6141 Aug 18 20:24	0° H 11'19	
conjunction	6136 Feb 20 16:40	1° H 41'26	-0°08'03		6141 Aug 18 00:50	0° H	
minimum elong	6136 Feb 20 16:40	1° H 41'26	0°08'02	max. Earth dist.	6141 Aug 21 00:11	0° H 41'23	6.09312 AU
behind sun begin	6136 Feb 20 09:32	1° H 37'24		morning rise	6141 Sep 01 06:26	3° H 17'38	
behind sun end	6136 Feb 20 23:48	1° H 45'27		retrograde	6142 Jan 06 21:10	22° H 25'27	
morning rise	6136 Mar 04 09:17	4° H 33'55		min. Earth dist.	6142 Mar 06 03:52	17° H 33'20	4.17416 AU
retrograde	6136 Jul 07 02:53	22° H 44'00		opposition	6142 Mar 07 14:14	17° H 21'43	0°32'40
opposition	6136 Sep 05 19:51	17° H 50'34	-0°33'31	direct	6142 May 05 21:29	12° H 21'53	
min. Earth dist.	6136 Sep 07 07:17	17° H 39'10	4.19608 AU		6142 Sep 05 11:40	0° $\underline{\text{A}}$	
direct	6136 Nov 06 00:08	12° H 52'44		evening set	6142 Sep 09 10:57	0° $\underline{\text{A}}$ 52'50	
	6137 Mar 04 15:29	0° Y					
evening set	6137 Mar 11 14:14	1° Y 36'35		conjunction	6142 Sep 23 01:22	3° $\underline{\text{A}}$ 55'08	0°35'25
max. Earth dist.	6137 Mar 22 15:37	4° Y 12'04	6.11459 AU	minimum elong	6142 Sep 23 01:20	3° $\underline{\text{A}}$ 55'07	0°35'25
				max. Earth dist.	6142 Sep 24 20:05	4° $\underline{\text{A}}$ 19'02	6.25691 AU
conjunction	6137 Mar 24 08:59	4° Y 36'24	-0°36'00	morning rise	6142 Oct 06 15:19	6° $\underline{\text{A}}$ 56'49	
minimum elong	6137 Mar 24 08:57	4° Y 36'23	0°36'00	retrograde	6143 Feb 07 18:58	24° $\underline{\text{A}}$ 52'43	
morning rise	6137 Apr 06 04:27	7° Y 36'50		opposition	6143 Apr 08 20:57	19° $\underline{\text{A}}$ 51'53	1°06'31
retrograde	6137 Aug 12 12:42	27° Y 01'22		min. Earth dist.	6143 Apr 08 01:07	19° $\underline{\text{A}}$ 58'29	4.33280 AU
opposition	6137 Oct 11 19:34	22° Y 05'30	-1°09'31	direct	6143 Jun 08 13:23	14° $\underline{\text{A}}$ 50'21	
min. Earth dist.	6137 Oct 12 14:53	21° Y 59'11	4.03809 AU		6143 Sep 30 10:57	0° M	
direct	6137 Dec 10 12:44	17° Y 10'02		evening set	6143 Oct 12 21:16	2° M 39'32	
	6138 Mar 17 18:24	0° B					
evening set	6138 Apr 15 10:27	6° B 40'26		conjunction	6143 Oct 26 06:16	5° M 33'40	0°52'05
				minimum elong	6143 Oct 26 06:15	5° M 33'39	0°52'07
conjunction	6138 Apr 28 10:02	9° B 48'27	-0°52'44	max. Earth dist.	6143 Oct 26 23:08	5° M 42'50	6.39827 AU
minimum elong	6138 Apr 28 10:01	9° B 48'27	0°52'45	morning rise	6143 Nov 08 13:12	8° M 26'39	
max. Earth dist.	6138 Apr 27 22:53	9° B 41'43	5.97602 AU		6143 Dec 10 01:44	15° M	
morning rise	6138 May 11 11:23	12° B 57'44		retrograde	6144 Mar 09 01:16	25° M 29'38	
	6138 May 20 00:04	15° B		opposition	6144 May 08 13:04	20° M 32'25	1°19'22
	6138 Aug 03 10:20	0° II		min. Earth dist.	6144 May 08 11:23	20° M 32'58	4.44766 AU
retrograde	6138 Sep 19 22:48	3° II 27'19		direct	6144 Jul 09 09:17	15° M 30'19	
	6138 Nov 07 00:33	30° R B			6144 Oct 29 17:56	0° J	
opposition	6138 Nov 18 17:13	28° B 28'05	-1°21'17	evening set	6144 Nov 12 10:58	2° J 53'07	
min. Earth dist.	6138 Nov 18 12:53	28° B 29'31	3.93385 AU				
direct	6139 Jan 16 03:36	23° B 34'02		conjunction	6144 Nov 25 13:41	5° J 41'40	0°53'38
	6139 Mar 21 17:59	0° II		minimum elong	6144 Nov 25 13:42	5° J 41'40	0°53'40
evening set	6139 May 22 09:07	13° II 32'28		max. Earth dist.	6144 Nov 24 23:55	5° J 34'16	6.47826 AU
				morning rise	6144 Dec 08 14:07	8° J 29'02	
conjunction	6139 Jun 04 16:04	16° II 46'49	-0°49'34	retrograde	6145 Apr 07 20:03	25° J 06'52	
minimum elong	6139 Jun 04 16:05	16° II 46'50	0°49'36	opposition	6145 Jun 07 14:07	20° J 12'37	1°10'53

min. Earth dist.	6145 Jun 08 08:33	20° ♂ 06'41	4.48903 AU	evening set	6151 May 27 18:14	18° ♂ 59'21	
direct	6145 Aug 09 05:31	15° ♂ 10'36					
	6145 Dec 01 08:43	0° ♂		conjunction	6151 Jun 10 02:24	22° ♂ 14'20	-0°47'19
evening set	6145 Dec 12 22:12	2° ♂ 26'53		minimum elong	6151 Jun 10 02:26	22° ♂ 14'20	0°47'21
max. Earth dist.	6145 Dec 24 06:07	4° ♂ 53'04	6.47769 AU	max. Earth dist.	6151 Jun 11 08:24	22° ♂ 32'37	5.91526 AU
				morning rise	6151 Jun 23 13:23	25° ♂ 30'49	
conjunction	6145 Dec 25 20:04	5° ♂ 13'32	0°40'57		6151 Jul 12 09:40	0° ♂	
minimum elong	6145 Dec 25 20:05	5° ♂ 13'33	0°41'00	retrograde	6151 Nov 02 22:23	16° ♂ 21'16	
morning rise	6146 Jan 07 15:32	7° ♂ 59'09		min. Earth dist.	6151 Dec 31 04:37	11° ♂ 28'02	3.93410 AU
retrograde	6146 May 08 01:18	24° ♂ 42'05		opposition	6152 Jan 01 09:57	11° ♂ 18'04	-0°54'39
opposition	6146 Jul 08 00:24	19° ♂ 49'28	0°44'04	direct	6152 Feb 28 06:25	6° ♂ 22'59	
min. Earth dist.	6146 Jul 09 08:53	19° ♂ 39'05	4.44701 AU	evening set	6152 Jul 03 18:41	26° ♂ 12'39	
direct	6146 Sep 08 17:47	14° ♂ 48'12					
	6147 Jan 01 13:10	0° ♂		conjunction	6152 Jul 17 09:38	29° ♂ 27'52	-0°21'59
evening set	6147 Jan 12 06:04	2° ♂ 18'55		minimum elong	6152 Jul 17 09:40	29° ♂ 27'53	0°22'00
max. Earth dist.	6147 Jan 22 20:58	4° ♂ 38'50	6.39677 AU		6152 Jul 19 15:24	0° ♂	
				max. Earth dist.	6152 Jul 19 17:57	0° ♂ 01'32	5.97714 AU
conjunction	6147 Jan 25 00:41	5° ♂ 07'21	0°17'14	morning rise	6152 Jul 31 02:44	2° ♂ 44'01	
minimum elong	6147 Jan 25 00:42	5° ♂ 07'21	0°17'15		6152 Sep 25 09:35	15° ♂	
morning rise	6147 Feb 06 17:26	7° ♂ 55'07		retrograde	6152 Dec 08 13:41	22° ♂ 52'20	
	6147 Mar 12 08:10	15° ♂		min. Earth dist.	6153 Feb 04 11:24	18° ♂ 00'42	4.04096 AU
retrograde	6147 Jun 08 21:34	25° ♂ 13'22		opposition	6153 Feb 06 01:42	17° ♂ 47'40	-0°08'01
opposition	6147 Aug 08 19:29	20° ♂ 20'56	0°04'17		6153 Feb 27 22:56	15° ♂	
min. Earth dist.	6147 Aug 10 11:09	20° ♂ 08'16	4.33139 AU	direct	6153 Apr 05 10:01	12° ♂ 50'00	
desc. node	6147 Sep 16 13:16	16° ♂ 11'02		asc. node	6153 Apr 11 10:36	12° ♂ 53'42	
direct	6147 Oct 09 23:52	15° ♂ 21'12			6153 May 12 00:26	15° ♂	
	6148 Jan 28 00:35	0° ♂			6153 Aug 01 04:10	0° ♂	
evening set	6148 Feb 12 10:24	3° ♂ 25'35		evening set	6153 Aug 09 23:54	2° ♂ 00'49	
max. Earth dist.	6148 Feb 22 21:47	5° ♂ 48'16	6.25479 AU				
				conjunction	6153 Aug 23 16:39	5° ♂ 10'18	0°11'01
conjunction	6148 Feb 25 03:53	6° ♂ 19'06	-0°12'16	minimum elong	6153 Aug 23 16:39	5° ♂ 10'17	0°11'00
minimum elong	6148 Feb 25 03:52	6° ♂ 19'05	0°12'15	behind sun begin	6153 Aug 23 10:26	5° ♂ 06'44	
behind sun begin	6148 Feb 24 22:27	6° ♂ 16'01		behind sun end	6153 Aug 23 22:51	5° ♂ 13'51	
behind sun end	6148 Feb 25 09:17	6° ♂ 22'09		max. Earth dist.	6153 Aug 26 02:07	5° ♂ 43'27	6.11799 AU
morning rise	6148 Mar 08 20:51	9° ♂ 12'36		morning rise	6153 Sep 06 10:23	8° ♂ 19'51	
retrograde	6148 Jul 12 02:00	27° ♂ 32'44		retrograde	6154 Jan 11 11:36	27° ♂ 16'03	
opposition	6148 Sep 10 17:39	22° ♂ 38'58	-0°39'27	min. Earth dist.	6154 Mar 10 22:07	22° ♂ 23'36	4.20021 AU
min. Earth dist.	6148 Sep 12 03:33	22° ♂ 28'01	4.17183 AU	opposition	6154 Mar 12 06:50	22° ♂ 12'33	0°38'31
direct	6148 Nov 10 17:18	17° ♂ 41'23		direct	6154 May 10 19:12	17° ♂ 12'21	
	6149 Feb 15 11:27	0° ♂			6154 Aug 19 08:47	0° ♂	
evening set	6149 Mar 16 08:35	6° ♂ 32'34		evening set	6154 Sep 14 06:50	5° ♂ 35'43	
max. Earth dist.	6149 Mar 27 14:47	9° ♂ 11'38	6.09088 AU				
				conjunction	6154 Sep 27 20:42	8° ♂ 36'39	0°38'35
conjunction	6149 Mar 29 04:00	9° ♂ 33'37	-0°39'17	minimum elong	6154 Sep 27 20:41	8° ♂ 36'38	0°38'35
minimum elong	6149 Mar 29 03:58	9° ♂ 33'36	0°39'18	max. Earth dist.	6154 Sep 29 13:15	8° ♂ 59'12	6.28207 AU
morning rise	6149 Apr 10 23:59	12° ♂ 35'21		morning rise	6154 Oct 11 09:33	11° ♂ 36'50	
	6149 Jul 11 06:32	0° ♂		retrograde	6155 Feb 12 02:03	29° ♂ 22'53	
retrograde	6149 Aug 17 21:23	2° ♂ 10'54		opposition	6155 Apr 13 05:49	24° ♂ 22'35	1°09'34
	6149 Sep 24 16:40	30° ♂ 8'00		min. Earth dist.	6155 Apr 12 12:10	24° ♂ 28'26	4.35503 AU
opposition	6149 Oct 17 01:47	27° ♂ 14'39	-1°13'00	direct	6155 Jun 13 02:22	19° ♂ 20'57	
min. Earth dist.	6149 Oct 17 18:45	27° ♂ 09'05	4.01722 AU		6155 Sep 13 05:02	0° ♂	
direct	6149 Dec 15 14:15	22° ♂ 19'30		evening set	6155 Oct 17 09:23	7° ♂ 04'33	
	6150 Feb 25 17:48	0° ♂					
evening set	6150 Apr 20 13:15	11° ♂ 56'06		conjunction	6155 Oct 30 17:18	9° ♂ 57'35	0°53'11
				minimum elong	6155 Oct 30 17:18	9° ♂ 57'34	0°53'13
conjunction	6150 May 03 13:39	15° ♂ 05'18	-0°53'36	max. Earth dist.	6155 Oct 31 04:05	10° ♂ 03'25	6.41578 AU
minimum elong	6150 May 03 13:39	15° ♂ 05'17	0°53'38	morning rise	6155 Nov 12 23:25	12° ♂ 49'31	
max. Earth dist.	6150 May 03 06:06	15° ♂ 00'43	5.95995 AU		6155 Nov 23 04:03	15° ♂	
	6150 May 03 04:56	15° ♂		retrograde	6156 Mar 13 05:46	29° ♂ 46'45	
morning rise	6150 May 16 16:21	18° ♂ 15'52		opposition	6156 May 12 17:51	24° ♂ 50'01	1°19'21
	6150 Jul 08 00:52	0° ♂		min. Earth dist.	6156 May 12 20:04	24° ♂ 49'17	4.45946 AU
retrograde	6150 Sep 25 10:07	8° ♂ 52'36		direct	6156 Jul 13 18:19	19° ♂ 47'51	
opposition	6150 Nov 24 04:07	3° ♂ 52'50	-1°20'15		6156 Oct 12 17:28	0° ♂	
min. Earth dist.	6150 Nov 23 19:10	3° ♂ 55'49	3.92474 AU	evening set	6156 Nov 16 17:26	7° ♂ 08'15	
	6150 Dec 27 20:19	30° ♂ 8'00					
direct	6151 Jan 21 10:13	28° ♂ 58'50		conjunction	6156 Nov 29 19:34	9° ♂ 56'21	0°52'38
	6151 Feb 14 23:09	0° ♂		minimum elong	6156 Nov 29 19:35	9° ♂ 56'21	0°52'40

max. Earth dist.	6156 Nov 29 02:37	9° ♊ 47'15	6.48346 AU	retrograde	6162 Sep 30 23:47	14° ♊ 21'58	
morning rise	6156 Dec 12 19:05	12° ♊ 43'13		opposition	6162 Nov 29 16:06	9° ♊ 21'36	-1°18'28
retrograde	6157 Apr 11 22:39	29° ♊ 20'05		min. Earth dist.	6162 Nov 29 04:14	9° ♊ 25'35	3.92077 AU
opposition	6157 Jun 11 18:31	24° ♊ 26'10	1°08'07	direct	6163 Jan 26 20:16	4° ♊ 27'35	
min. Earth dist.	6157 Jun 12 14:44	24° ♊ 19'40	4.48745 AU	evening set	6163 Jun 02 03:56	24° ♊ 27'57	
direct	6157 Aug 13 09:53	19° ♊ 24'15					
	6157 Nov 14 14:39	0° ♋		conjunction	6163 Jun 15 13:14	27° ♊ 43'15	-0°44'39
evening set	6157 Dec 17 03:12	6° ♋ 41'44		minimum elong	6163 Jun 15 13:16	27° ♊ 43'16	0°44'41
max. Earth dist.	6157 Dec 28 07:24	9° ♋ 06'16	6.46939 AU	max. Earth dist.	6163 Jun 17 00:58	28° ♊ 05'00	5.91974 AU
					6163 Jun 24 22:10	0° ♋	
conjunction	6157 Dec 30 00:27	9° ♋ 28'29	0°38'11	morning rise	6163 Jun 29 01:16	0° ♋ 59'59	
minimum elong	6157 Dec 30 00:28	9° ♋ 28'29	0°38'14	retrograde	6163 Nov 08 06:51	21° ♋ 46'27	
morning rise	6158 Jan 11 19:27	12° ♋ 14'15		min. Earth dist.	6164 Jan 05 10:03	16° ♋ 53'43	3.94655 AU
retrograde	6158 May 12 10:29	29° ♋ 01'02		opposition	6164 Jan 06 17:56	16° ♋ 42'53	-0°48'46
opposition	6158 Jul 12 08:32	24° ♋ 08'36	0°39'06	direct	6164 Mar 04 14:34	11° ♋ 47'29	
min. Earth dist.	6158 Jul 13 19:40	23° ♋ 57'24	4.43240 AU		6164 Jul 02 15:13	0° ♌	
direct	6158 Sep 13 01:31	19° ♋ 07'33		evening set	6164 Jul 09 03:03	1° ♌ 31'51	
	6158 Dec 15 16:38	0° ♌					
evening set	6159 Jan 16 13:15	6° ♌ 42'54		conjunction	6164 Jul 22 18:21	4° ♌ 46'22	-0°17'25
max. Earth dist.	6159 Jan 27 01:18	9° ♌ 01'56	6.37686 AU	minimum elong	6164 Jul 22 18:22	4° ♌ 46'23	0°17'27
				max. Earth dist.	6164 Jul 25 02:57	5° ♌ 20'02	5.99589 AU
conjunction	6159 Jan 29 07:37	9° ♌ 32'01	0°13'18	morning rise	6164 Aug 05 11:58	8° ♌ 01'47	
minimum elong	6159 Jan 29 07:37	9° ♌ 32'01	0°13'19		6164 Sep 05 01:19	15° ♌	
behind sun begin	6159 Jan 29 02:57	9° ♌ 29'27		retrograde	6164 Dec 13 11:00	27° ♌ 59'56	
behind sun end	6159 Jan 29 12:18	9° ♌ 34'36		min. Earth dist.	6165 Feb 09 10:42	23° ♌ 08'16	4.06379 AU
morning rise	6159 Feb 11 00:23	12° ♌ 20'34		opposition	6165 Feb 11 00:59	22° ♌ 55'13	-0°00'57
	6159 Feb 23 04:38	15° ♌		asc. node	6165 Feb 18 18:36	21° ♌ 52'36	
retrograde	6159 Jun 13 13:43	29° ♌ 47'13		direct	6165 Apr 10 12:45	17° ♌ 57'08	
desc. node	6159 Jul 27 06:37	27° ♌ 01'42			6165 Jul 14 09:40	0° ♍	
opposition	6159 Aug 13 10:44	24° ♌ 54'41	-0°01'54	evening set	6165 Aug 15 01:58	7° ♍ 00'31	
min. Earth dist.	6159 Aug 15 01:42	24° ♌ 42'13	4.30743 AU				
direct	6159 Oct 14 10:39	19° ♌ 55'14		conjunction	6165 Aug 28 18:40	10° ♍ 08'48	0°15'28
	6160 Jan 10 08:34	0° ♍		minimum elong	6165 Aug 28 18:39	10° ♍ 08'47	0°15'28
evening set	6160 Feb 16 23:12	8° ♍ 06'56		behind sun begin	6165 Aug 28 16:56	10° ♍ 07'48	
max. Earth dist.	6160 Feb 27 13:30	10° ♍ 32'05	6.22878 AU	behind sun end	6165 Aug 28 20:23	10° ♍ 09'46	
				max. Earth dist.	6165 Aug 31 03:14	10° ♍ 41'15	6.14295 AU
conjunction	6160 Feb 29 16:57	11° ♍ 01'34	-0°16'27	morning rise	6165 Sep 11 11:44	13° ♍ 16'57	
minimum elong	6160 Feb 29 16:56	11° ♍ 01'34	0°16'26		6165 Dec 11 00:59	0° ♎	
morning rise	6160 Mar 13 10:05	13° ♍ 56'16		retrograde	6166 Jan 16 01:13	2° ♎ 01'55	
	6160 Jun 06 19:19	0° ♎			6166 Feb 20 19:20	30° ♎	
retrograde	6160 Jul 17 04:49	2° ♎ 27'53		opposition	6166 Mar 16 21:13	26° ♎ 58'49	0°44'02
	6160 Aug 26 23:35	30° ♎		min. Earth dist.	6166 Mar 15 14:36	27° ♎ 09'07	4.22489 AU
opposition	6160 Sep 15 18:20	27° ♎ 33'55	-0°45'12	direct	6166 May 15 14:30	21° ♎ 58'23	
min. Earth dist.	6160 Sep 17 02:55	27° ♎ 23'23	4.14575 AU		6166 Jul 31 05:47	0° ♏	
direct	6160 Nov 15 13:08	22° ♎ 36'47		evening set	6166 Sep 19 01:03	10° ♏ 14'57	
	6161 Jan 26 12:46	0° ♎					
evening set	6161 Mar 21 05:47	11° ♎ 35'51		conjunction	6166 Oct 02 14:04	13° ♏ 14'36	0°41'31
max. Earth dist.	6161 Apr 01 15:01	14° ♎ 17'38	6.06707 AU	minimum elong	6166 Oct 02 14:02	13° ♏ 14'35	0°41'31
				max. Earth dist.	6166 Oct 04 01:47	13° ♏ 34'23	6.30441 AU
conjunction	6161 Apr 03 01:37	14° ♎ 38'10	-0°42'18	morning rise	6166 Oct 16 02:08	16° ♏ 13'29	
minimum elong	6161 Apr 03 01:36	14° ♎ 38'10	0°42'19		6166 Dec 27 09:27	0° ♐	
morning rise	6161 Apr 15 22:32	17° ♎ 41'20		retrograde	6167 Feb 16 08:11	3° ♐ 51'01	
	6161 Jun 11 18:31	0° ♐			6167 Apr 08 20:04	30° ♐	
retrograde	6161 Aug 23 07:03	7° ♐ 27'51		opposition	6167 Apr 17 13:47	28° ♐ 51'11	1°12'14
opposition	6161 Oct 22 10:31	2° ♐ 31'08	-1°15'55	min. Earth dist.	6167 Apr 16 22:59	28° ♐ 56'05	4.37361 AU
min. Earth dist.	6161 Oct 22 22:46	2° ♐ 27'07	3.99822 AU	direct	6167 Jun 17 14:54	23° ♐ 49'22	
	6161 Nov 11 13:48	30° ♐			6167 Aug 24 03:17	0° ♑	
direct	6161 Dec 20 17:19	27° ♐ 36'17		evening set	6167 Oct 21 20:35	11° ♑ 28'36	
	6162 Jan 28 06:46	0° ♑					
	6162 Apr 16 03:57	15° ♑		conjunction	6167 Nov 04 03:47	14° ♑ 20'46	0°54'00
evening set	6162 Apr 25 18:37	17° ♑ 18'17		minimum elong	6167 Nov 04 03:46	14° ♑ 20'46	0°54'01
				max. Earth dist.	6167 Nov 04 11:20	14° ♑ 24'51	6.42936 AU
conjunction	6162 May 08 20:05	20° ♑ 28'31	-0°54'01		6167 Nov 07 04:19	15° ♑	
minimum elong	6162 May 08 20:05	20° ♑ 28'31	0°54'03	morning rise	6167 Nov 17 08:45	17° ♑ 11'46	
max. Earth dist.	6162 May 08 19:16	20° ♑ 28'02	5.94772 AU		6168 Jan 24 09:51	0° ♒	
morning rise	6162 May 21 23:46	23° ♑ 40'09		retrograde	6168 Mar 17 08:56	4° ♒ 04'35	
	6162 Jun 17 21:22	0° ♒			6168 May 10 06:54	30° ♒	

opposition	6168 May 16 22:51	29° \mathbb{M} 08'18	1°18'57	retrograde	6173 Aug 28 17:36	12° \mathcal{B} 42'40	
min. Earth dist.	6168 May 17 03:34	29° \mathbb{M} 06'46	4.46736 AU	opposition	6173 Oct 27 18:42	7° \mathcal{B} 45'29	-1°18'13
direct	6168 Jul 18 02:07	24° \mathbb{M} 06'09		min. Earth dist.	6173 Oct 28 04:08	7° \mathcal{B} 42'22	3.98532 AU
	6168 Sep 22 17:30	0° \mathcal{A}		direct	6173 Dec 25 22:15	2° \mathcal{B} 50'52	
evening set	6168 Nov 21 00:46	11° \mathcal{A} 25'14			6174 Mar 29 08:37	15° \mathcal{B}	
max. Earth dist.	6168 Dec 03 03:42	14° \mathcal{A} 00'59	6.48504 AU	evening set	6174 Apr 30 22:34	22° \mathcal{B} 35'49	
conjunction	6168 Dec 04 02:00	14° \mathcal{A} 12'57	0°51'21	conjunction	6174 May 14 00:59	25° \mathcal{B} 46'47	-0°54'00
minimum elong	6168 Dec 04 02:00	14° \mathcal{A} 12'57	0°51'24	minimum elong	6174 May 14 00:59	25° \mathcal{B} 46'47	0°54'01
morning rise	6168 Dec 17 00:56	16° \mathcal{A} 59'31		max. Earth dist.	6174 May 14 05:40	25° \mathcal{B} 49'38	5.94151 AU
	6169 Feb 25 08:51	0° \mathcal{B}		morning rise	6174 May 27 05:46	28° \mathcal{B} 59'12	
retrograde	6169 Apr 16 04:55	3° \mathcal{B} 36'25			6174 May 31 10:36	0° \mathbb{I}	
	6169 Jun 05 20:26	30° \mathcal{R} \mathcal{A}		retrograde	6174 Oct 06 08:42	19° \mathbb{I} 43'17	
opposition	6169 Jun 16 00:23	28° \mathcal{A} 42'46	1°04'57	min. Earth dist.	6174 Dec 04 09:07	14° \mathbb{I} 47'44	3.92228 AU
min. Earth dist.	6169 Jun 16 23:58	28° \mathcal{A} 35'12	4.48279 AU	opposition	6174 Dec 05 00:50	14° \mathbb{I} 42'27	-1°16'02
direct	6169 Aug 17 17:44	23° \mathcal{A} 40'53		direct	6175 Feb 01 02:18	9° \mathbb{I} 48'25	
	6169 Oct 26 01:30	0° \mathcal{B}		evening set	6175 Jun 07 10:31	29° \mathbb{I} 46'50	
evening set	6169 Dec 21 09:33	11° \mathcal{B} 00'17			6175 Jun 08 08:20	0° \mathcal{B}	
max. Earth dist.	6170 Jan 01 11:12	13° \mathcal{B} 23'49	6.45876 AU	conjunction	6175 Jun 20 20:36	3° \mathcal{B} 02'07	-0°41'41
conjunction	6170 Jan 03 06:27	13° \mathcal{B} 47'17	0°35'10	minimum elong	6175 Jun 20 20:38	3° \mathcal{B} 02'08	0°41'43
minimum elong	6170 Jan 03 06:29	13° \mathcal{B} 47'17	0°35'12	max. Earth dist.	6175 Jun 22 10:55	3° \mathcal{B} 25'22	5.92855 AU
morning rise	6170 Jan 16 00:58	16° \mathcal{B} 33'18		morning rise	6175 Jul 04 09:40	6° \mathcal{B} 18'51	
	6170 Mar 29 11:56	0° \approx		retrograde	6175 Nov 13 08:49	26° \mathcal{B} 59'43	
retrograde	6170 May 16 19:52	3° \approx 24'34		min. Earth dist.	6176 Jan 10 11:34	22° \mathcal{B} 07'15	3.96156 AU
	6170 Jul 05 02:51	30° \mathcal{R} \mathcal{B}		opposition	6176 Jan 11 21:00	21° \mathcal{B} 55'52	-0°42'43
opposition	6170 Jul 16 18:44	28° \mathcal{B} 32'11	0°33'49	direct	6176 Mar 09 19:20	17° \mathcal{B} 00'07	
min. Earth dist.	6170 Jul 18 06:06	28° \mathcal{B} 20'54	4.41655 AU		6176 Jun 15 07:12	0° \mathcal{Q}	
direct	6170 Sep 17 09:12	23° \mathcal{B} 31'21		evening set	6176 Jul 14 06:51	6° \mathcal{Q} 38'45	
	6170 Nov 26 00:47	0° \approx		conjunction	6176 Jul 27 22:45	9° \mathcal{Q} 52'35	-0°12'55
evening set	6171 Jan 20 22:16	11° \approx 11'28		minimum elong	6176 Jul 27 22:46	9° \mathcal{Q} 52'35	0°12'57
max. Earth dist.	6171 Jan 31 10:23	13° \approx 31'12	6.35701 AU	behind sun begin	6176 Jul 27 17:46	9° \mathcal{Q} 49'38	
conjunction	6171 Feb 02 16:23	14° \approx 01'15	0°09'11	behind sun end	6176 Jul 28 03:46	9° \mathcal{Q} 55'32	
minimum elong	6171 Feb 02 16:24	14° \approx 01'16	0°09'13	max. Earth dist.	6176 Jul 30 09:04	10° \mathcal{Q} 27'06	6.01570 AU
behind sun begin	6171 Feb 02 09:39	13° \approx 57'32		morning rise	6176 Aug 10 16:25	13° \mathcal{Q} 07'06	
behind sun end	6171 Feb 02 23:08	14° \approx 05'00			6176 Aug 18 18:13	15° \mathcal{Q}	
	6171 Feb 07 01:54	15° \approx			6176 Nov 04 22:38	0° \mathbb{N}	
morning rise	6171 Feb 15 09:03	16° \approx 50'33		retrograde	6176 Dec 18 05:44	2° \mathbb{N} 55'11	
	6171 Apr 23 23:07	0° \mathcal{H}		asc. node	6176 Dec 30 14:32	2° \mathbb{N} 39'45	
desc. node	6171 Jun 05 03:12	4° \mathcal{H} 09'14			6177 Jan 30 10:22	30° \mathcal{R} \mathcal{Q}	
retrograde	6171 Jun 18 08:49	4° \mathcal{H} 25'34		min. Earth dist.	6177 Feb 14 06:42	28° \mathcal{Q} 03'12	4.08606 AU
	6171 Aug 14 15:42	30° \mathcal{R} \approx		opposition	6177 Feb 15 19:38	27° \mathcal{Q} 50'39	0°05'49
opposition	6171 Aug 18 04:21	29° \approx 32'58	-0°08'15	direct	6177 Apr 15 11:22	22° \mathcal{Q} 52'15	
min. Earth dist.	6171 Aug 19 19:46	29° \approx 20'21	4.28487 AU		6177 Jun 24 14:12	0° \mathbb{N}	
direct	6171 Oct 19 01:39	24° \approx 33'53		evening set	6177 Aug 19 23:35	11° \mathbb{N} 48'52	
	6171 Dec 20 02:52	0° \mathcal{H}		conjunction	6177 Sep 02 15:55	14° \mathbb{N} 56'00	0°19'39
evening set	6172 Feb 21 13:55	12° \mathcal{H} 52'09		minimum elong	6177 Sep 02 15:54	14° \mathbb{N} 55'59	0°19'39
max. Earth dist.	6172 Mar 03 05:17	15° \mathcal{H} 18'44	6.20551 AU	max. Earth dist.	6177 Sep 04 21:47	15° \mathbb{N} 26'43	6.16563 AU
conjunction	6172 Mar 05 07:44	15° \mathcal{H} 47'47	-0°20'36	morning rise	6177 Sep 16 08:39	18° \mathbb{N} 02'57	
minimum elong	6172 Mar 05 07:43	15° \mathcal{H} 47'47	0°20'36		6177 Nov 13 07:25	0° \mathcal{Q}	
morning rise	6172 Mar 18 01:18	18° \mathcal{H} 43'36		retrograde	6178 Jan 20 09:48	6° \mathcal{Q} 38'09	
	6172 May 10 08:51	0° \mathcal{Y}		min. Earth dist.	6178 Mar 20 02:52	1° \mathcal{Q} 45'15	4.24611 AU
retrograde	6172 Jul 22 06:42	7° \mathcal{Y} 25'33		opposition	6178 Mar 21 07:54	1° \mathcal{Q} 35'29	0°49'04
opposition	6172 Sep 20 20:03	2° \mathcal{Y} 31'15	-0°50'43		6178 Apr 02 09:44	30° \mathcal{R} \mathbb{N}	
min. Earth dist.	6172 Sep 22 01:06	2° \mathcal{Y} 21'51	4.12389 AU	direct	6178 May 20 04:52	26° \mathbb{N} 34'51	
	6172 Oct 11 06:34	30° \mathcal{R} \mathcal{H}			6178 Jul 07 04:47	0° \mathcal{Q}	
direct	6172 Nov 20 09:18	27° \mathcal{H} 34'32		evening set	6178 Sep 23 15:45	14° \mathcal{Q} 46'09	
	6172 Dec 29 22:34	0° \mathcal{Y}		conjunction	6178 Oct 07 04:07	17° \mathcal{Q} 44'46	0°44'05
evening set	6173 Mar 26 03:39	16° \mathcal{Y} 39'51		minimum elong	6178 Oct 07 04:06	17° \mathcal{Q} 44'45	0°44'06
max. Earth dist.	6173 Apr 06 19:07	19° \mathcal{Y} 25'57	6.04873 AU	max. Earth dist.	6178 Oct 08 11:52	18° \mathcal{Q} 02'17	6.32272 AU
conjunction	6173 Apr 08 00:05	19° \mathcal{Y} 43'14	-0°45'03	morning rise	6178 Oct 20 15:14	20° \mathcal{Q} 42'30	
minimum elong	6173 Apr 08 00:03	19° \mathcal{Y} 43'13	0°45'04		6178 Dec 04 21:06	0° \mathbb{M}	
morning rise	6173 Apr 20 21:37	22° \mathcal{Y} 47'29		retrograde	6179 Feb 20 13:44	8° \mathbb{M} 13'17	
	6173 May 22 08:13	0° \mathcal{B}		opposition	6179 Apr 21 19:31	3° \mathbb{M} 14'03	1°14'26

min. Earth dist.	6179 Apr 21 07:56	3°♄17'53	4.38786 AU		6184 Apr 20 19:02	0°♑
	6179 May 18 13:50	30°♄		retrograde	6184 Jul 27 09:52	12°♑20'57
direct	6179 Jun 22 01:12	28°♄12'13		opposition	6184 Sep 25 20:48	7°♑26'17 -0°55'51
	6179 Jul 26 21:26	0°♄		min. Earth dist.	6184 Sep 27 00:31	7°♑17'17 4.10381 AU
	6179 Oct 22 11:01	15°♄		direct	6184 Nov 25 06:35	2°♑29'49
evening set	6179 Oct 26 05:55	15°♄48'35		evening set	6185 Mar 30 23:57	21°♑40'43
conjunction	6179 Nov 08 12:16	18°♄40'06	0°54'29	conjunction	6185 Apr 12 21:00	24°♑45'08 -0°47'26
minimum elong	6179 Nov 08 12:16	18°♄40'05	0°54'30	minimum elong	6185 Apr 12 20:59	24°♑45'07 0°47'27
max. Earth dist.	6179 Nov 08 14:46	18°♄41'27	6.43854 AU	max. Earth dist.	6185 Apr 11 19:37	24°♑29'56 6.03121 AU
morning rise	6179 Nov 21 16:31	21°♄30'26		morning rise	6185 Apr 25 19:21	27°♑50'31
	6180 Jan 02 15:29	0°♄			6185 May 04 22:28	0°♄
retrograde	6180 Mar 21 12:22	8°♄20'24			6185 Jul 21 13:15	15°♄
opposition	6180 May 21 03:04	3°♄24'33	1°18'09	retrograde	6185 Sep 03 00:21	17°♄53'57
min. Earth dist.	6180 May 21 10:27	3°♄22'09	4.47132 AU		6185 Oct 16 22:02	15°♄
	6180 Jun 19 03:40	30°♄		opposition	6185 Nov 02 00:52	12°♄56'16 -1°19'53
direct	6180 Jul 22 08:38	28°♄22'24		min. Earth dist.	6185 Nov 02 06:28	12°♄54'25 3.97231 AU
	6180 Aug 24 21:32	0°♄		direct	6185 Dec 30 22:54	8°♄01'51
evening set	6180 Nov 25 06:56	15°♄41'20			6186 Mar 08 22:08	15°♄
max. Earth dist.	6180 Dec 07 07:34	18°♄15'55	6.48363 AU	evening set	6186 May 06 01:27	27°♄50'07
					6186 May 14 23:15	0°♄
conjunction	6180 Dec 08 07:41	18°♄28'53	0°49'48	conjunction	6186 May 19 04:45	1°♄01'53 -0°53'33
minimum elong	6180 Dec 08 07:42	18°♄28'53	0°49'51	minimum elong	6186 May 19 04:46	1°♄01'53 0°53'35
morning rise	6180 Dec 21 05:47	21°♄15'15		max. Earth dist.	6186 May 19 13:18	1°♄07'05 5.93415 AU
	6181 Feb 02 19:16	0°♄		morning rise	6186 Jun 01 10:44	4°♄15'09
retrograde	6181 Apr 20 09:31	7°♄53'10		retrograde	6186 Oct 11 16:23	25°♄02'01
opposition	6181 Jun 20 06:20	2°♄59'49	1°01'28	opposition	6186 Dec 10 07:59	20°♄00'38 -1°13'01
min. Earth dist.	6181 Jun 21 07:07	2°♄51'52	4.47624 AU	min. Earth dist.	6186 Dec 09 13:22	20°♄06'54 3.92146 AU
	6181 Jul 15 09:18	30°♄		direct	6187 Feb 06 08:24	15°♄06'24
direct	6181 Aug 21 23:47	27°♄58'07			6187 May 22 06:36	0°♄
	6181 Sep 28 17:49	0°♄		evening set	6187 Jun 12 16:30	5°♄04'04
evening set	6181 Dec 25 15:44	15°♄19'43				
max. Earth dist.	6182 Jan 05 14:03	17°♄41'56	6.44751 AU	conjunction	6187 Jun 26 03:47	8°♄19'35 -0°38'24
conjunction	6182 Jan 07 12:00	18°♄06'56	0°31'58	minimum elong	6187 Jun 26 03:48	8°♄19'36 0°38'26
minimum elong	6182 Jan 07 12:01	18°♄06'56	0°31'59	max. Earth dist.	6187 Jun 27 22:57	8°♄45'45 5.93442 AU
morning rise	6182 Jan 20 06:16	20°♄53'16		morning rise	6187 Jul 09 17:37	11°♄36'25
	6182 Mar 06 04:11	0°♄			6187 Oct 12 04:49	0°♄
retrograde	6182 May 21 07:19	7°♄49'11		retrograde	6187 Nov 18 13:02	2°♄12'52
opposition	6182 Jul 21 05:20	2°♄56'51	0°28'20		6187 Dec 25 16:21	30°♄
min. Earth dist.	6182 Jul 22 18:19	2°♄45'03	4.40117 AU	min. Earth dist.	6188 Jan 15 14:02	27°♄20'19 3.97334 AU
	6182 Aug 14 23:07	30°♄		opposition	6188 Jan 17 00:02	27°♄08'45 -0°36'21
direct	6182 Sep 21 19:27	27°♄56'10		direct	6188 Mar 14 23:37	22°♄12'39
	6182 Oct 29 12:28	0°♄			6188 May 26 09:23	0°♄
	6183 Jan 22 05:24	15°♄		evening set	6188 Jul 19 11:29	11°♄46'54
evening set	6183 Jan 25 06:56	15°♄40'36				
max. Earth dist.	6183 Feb 04 18:54	18°♄00'51	6.33859 AU	conjunction	6188 Aug 02 03:43	15°♄00'07 -0°08'17
				minimum elong	6188 Aug 02 03:43	15°♄00'07 0°08'18
conjunction	6183 Feb 07 00:58	18°♄31'03	0°05'03	behind sun begin	6188 Aug 01 20:21	14°♄55'48
minimum elong	6183 Feb 07 00:58	18°♄31'03	0°05'05	behind sun end	6188 Aug 02 11:05	15°♄04'27
behind sun begin	6183 Feb 06 17:13	18°♄26'44			6188 Aug 02 03:30	15°♄
behind sun end	6183 Feb 07 08:42	18°♄35'21		max. Earth dist.	6188 Aug 04 14:22	15°♄34'41 6.03202 AU
morning rise	6183 Feb 19 17:31	21°♄21'02		morning rise	6188 Aug 15 21:44	18°♄13'57
	6183 Apr 01 19:07	0°♄			6188 Oct 09 12:49	0°♄
desc. node	6183 Apr 14 12:27	2°♄20'04		asc. node	6188 Nov 09 10:16	4°♄55'50
retrograde	6183 Jun 23 01:05	9°♄03'47		retrograde	6188 Dec 22 23:43	7°♄53'09
opposition	6183 Aug 22 21:26	4°♄10'57	-0°14'31	min. Earth dist.	6189 Feb 19 01:58	3°♄01'23 4.10524 AU
min. Earth dist.	6183 Aug 24 11:05	3°♄58'54	4.26450 AU	opposition	6189 Feb 20 15:13	2°♄48'44 0°12'36
	6183 Sep 30 19:40	30°♄			6189 Mar 14 17:41	30°♄
direct	6183 Oct 23 14:16	29°♄12'08		direct	6189 Apr 20 09:31	27°♄49'58
	6183 Nov 15 09:42	0°♄			6189 May 27 08:15	0°♄
evening set	6184 Feb 26 03:36	17°♄36'04		evening set	6189 Aug 24 23:08	16°♄40'59
max. Earth dist.	6184 Mar 07 21:48	20°♄04'58	6.18462 AU			
conjunction	6184 Mar 09 21:31	20°♄32'35	-0°24'35	conjunction	6189 Sep 07 15:10	19°♄47'04 0°23'46
minimum elong	6184 Mar 09 21:30	20°♄32'35	0°24'35	minimum elong	6189 Sep 07 15:09	19°♄47'03 0°23'45
morning rise	6184 Mar 22 15:23	23°♄29'23		max. Earth dist.	6189 Sep 09 18:20	20°♄16'08 6.18608 AU
				morning rise	6189 Sep 21 07:19	22°♄52'51

	6189 Oct 24 03:36	0°♄	conjunction	6196 Mar 14 07:42	25°♄07'41 -0°28'13
retrograde	6190 Jan 24 22:53	11°♄18'56	minimum elong	6196 Mar 14 07:41	25°♄07'40 0°28'12
opposition	6190 Mar 25 20:41	6°♄16'44 0°53'54	morning rise	6196 Mar 27 01:52	28°♄05'24
min. Earth dist.	6190 Mar 24 18:21	6°♄25'34 4.26605 AU		6196 Apr 04 09:14	0°♄
direct	6190 May 24 23:07	1°♄15'53	retrograde	6196 Aug 01 06:47	17°♄06'05
evening set	6190 Sep 28 08:43	19°♄22'08	opposition	6196 Sep 30 16:58	12°♄11'07 -1°00'21
			min. Earth dist.	6196 Oct 01 18:34	12°♄02'48 4.08455 AU
conjunction	6190 Oct 11 20:23	22°♄19'43 0°46'28	direct	6196 Nov 29 21:08	7°♄14'57
minimum elong	6190 Oct 11 20:21	22°♄19'43 0°46'29	evening set	6197 Apr 04 16:37	26°♄31'48
max. Earth dist.	6190 Oct 13 01:24	22°♄35'40 6.34080 AU			
morning rise	6190 Oct 25 06:35	25°♄16'21	conjunction	6197 Apr 17 14:14	29°♄37'17 -0°49'22
	6190 Nov 16 10:34	0°♄	minimum elong	6197 Apr 17 14:13	29°♄37'16 0°49'24
retrograde	6191 Feb 24 19:38	12°♄40'16	max. Earth dist.	6197 Apr 16 15:20	29°♄23'32 6.01314 AU
opposition	6191 Apr 26 03:30	7°♄41'32 1°16'17		6197 Apr 19 04:03	0°♄
min. Earth dist.	6191 Apr 25 17:19	7°♄44'53 4.40326 AU	morning rise	6197 Apr 30 13:32	2°♄43'54
direct	6191 Jun 26 12:01	2°♄39'40		6197 Jun 25 08:43	15°♄
	6191 Oct 05 17:43	15°♄	retrograde	6197 Sep 08 04:08	22°♄56'18
evening set	6191 Oct 30 16:57	20°♄12'29	opposition	6197 Nov 07 03:06	17°♄58'09 -1°20'55
			min. Earth dist.	6197 Nov 07 06:13	17°♄57'07 3.95714 AU
conjunction	6191 Nov 12 22:26	23°♄03'10 0°54'43		6197 Dec 01 05:57	15°♄
minimum elong	6191 Nov 12 22:26	23°♄03'10 0°54'45	direct	6198 Jan 04 21:36	13°♄03'50
max. Earth dist.	6191 Nov 12 22:03	23°♄02'58 6.45052 AU		6198 Feb 08 04:16	15°♄
morning rise	6191 Nov 26 01:40	25°♄52'41		6198 Apr 28 18:51	0°♄
	6191 Dec 15 16:42	0°♄	evening set	6198 May 11 01:10	2°♄56'50
retrograde	6192 Mar 25 17:16	12°♄38'44			
opposition	6192 May 25 08:54	7°♄43'22 1°16'58	conjunction	6198 May 24 05:47	6°♄09'41 -0°52'43
min. Earth dist.	6192 May 25 18:41	7°♄40'12 4.47939 AU	minimum elong	6198 May 24 05:48	6°♄09'41 0°52'46
direct	6192 Jul 26 17:49	2°♄41'19	max. Earth dist.	6198 May 24 19:48	6°♄18'14 5.92357 AU
evening set	6192 Nov 29 13:53	19°♄58'23	morning rise	6198 Jun 06 12:52	9°♄24'01
max. Earth dist.	6192 Dec 11 09:39	22°♄30'24 6.48726 AU		6198 Oct 04 14:33	0°♄
			retrograde	6198 Oct 16 23:58	0°♄15'10
conjunction	6192 Dec 12 13:45	22°♄45'29 0°48'02		6198 Oct 29 06:44	30°♄
minimum elong	6192 Dec 12 13:46	22°♄45'30 0°48'05	opposition	6198 Dec 15 12:36	25°♄13'24 -1°09'35
morning rise	6192 Dec 25 11:15	25°♄31'28	min. Earth dist.	6198 Dec 14 16:06	25°♄20'19 3.91681 AU
	6193 Jan 15 20:57	0°♄	direct	6199 Feb 11 10:56	20°♄19'04
retrograde	6193 Apr 24 14:48	12°♄08'46		6199 May 03 15:31	0°♄
opposition	6193 Jun 24 12:19	7°♄15'37 0°57'44	evening set	6199 Jun 17 21:21	10°♄17'57
min. Earth dist.	6193 Jun 25 15:02	7°♄07'04 4.47533 AU			
direct	6193 Aug 26 06:53	2°♄14'00	conjunction	6199 Jul 01 09:35	13°♄33'53 -0°34'55
evening set	6193 Dec 29 20:39	19°♄35'53	minimum elong	6199 Jul 01 09:37	13°♄33'54 0°34'57
max. Earth dist.	6194 Jan 09 18:15	21°♄57'53 6.44211 AU	max. Earth dist.	6199 Jul 03 07:08	14°♄01'26 5.93606 AU
			morning rise	6199 Jul 15 00:38	16°♄51'08
conjunction	6194 Jan 11 16:33	22°♄23'07 0°28'41		6199 Sep 13 02:49	0°♄
minimum elong	6194 Jan 11 16:34	22°♄23'08 0°28'44	retrograde	6199 Nov 23 14:16	7°♄24'44
morning rise	6194 Jan 24 10:11	25°♄09'29	min. Earth dist.	6200 Jan 20 13:30	2°♄32'46 3.98114 AU
	6194 Feb 16 06:43	0°♄	opposition	6200 Jan 22 01:45	2°♄20'25 -0°29'52
retrograde	6194 May 25 14:17	12°♄08'18		6200 Feb 09 00:41	30°♄
opposition	6194 Jul 25 14:01	7°♄16'00 0°22'53	direct	6200 Mar 21 01:14	27°♄23'59
min. Earth dist.	6194 Jul 27 03:18	7°♄04'07 4.39141 AU		6200 Apr 30 00:34	0°♄
direct	6194 Sep 26 02:21	2°♄15'34		6200 Jul 17 09:29	15°♄
	6195 Jan 06 05:46	15°♄	evening set	6200 Jul 25 16:24	16°♄55'37
evening set	6195 Jan 29 12:52	20°♄02'32			
max. Earth dist.	6195 Feb 08 23:39	22°♄22'37 6.32503 AU	conjunction	6200 Aug 08 09:05	20°♄08'25 -0°03'41
			minimum elong	6200 Aug 08 09:05	20°♄08'25 0°03'41
conjunction	6195 Feb 11 06:30	22°♄53'22 0°01'01	behind sun begin	6200 Aug 08 00:46	20°♄03'34
minimum elong	6195 Feb 11 06:29	22°♄53'21 0°01'03	behind sun end	6200 Aug 08 17:23	20°♄13'17
behind sun begin	6195 Feb 10 22:31	22°♄48'55	max. Earth dist.	6200 Aug 10 20:01	20°♄43'02 6.04532 AU
behind sun end	6195 Feb 11 14:27	22°♄57'48	morning rise	6200 Aug 22 03:18	23°♄21'41
morning rise	6195 Feb 23 23:03	25°♄43'52	asc. node	6200 Sep 20 20:08	0°♄03'18
desc. node	6195 Feb 24 10:15	25°♄50'07		6200 Sep 20 14:00	0°♄
	6195 Mar 15 10:29	0°♄	retrograde	6200 Dec 28 20:21	12°♄53'05
retrograde	6195 Jun 27 16:17	13°♄33'09	min. Earth dist.	6201 Feb 24 23:08	8°♄01'01 4.12231 AU
opposition	6195 Aug 27 11:21	8°♄40'11 -0°20'24	opposition	6201 Feb 26 11:14	7°♄48'45 0°19'11
min. Earth dist.	6195 Aug 29 01:34	8°♄27'55 4.24763 AU	direct	6201 Apr 26 10:12	2°♄49'36
direct	6195 Oct 28 02:12	3°♄41'35	evening set	6201 Aug 30 23:17	21°♄35'31
evening set	6196 Mar 01 13:31	22°♄10'18			
max. Earth dist.	6196 Mar 12 09:11	24°♄40'39 6.16581 AU	conjunction	6201 Sep 13 15:05	24°♄40'37 0°27'41

minimum elong	6201 Sep 13 15:04	24° \mathbb{M} 40'36	0°27'41	morning rise	6207 Mar 01 08:28	0° \mathbb{H} 16'33	
max. Earth dist.	6201 Sep 15 18:02	25° \mathbb{M} 09'25	6.20545 AU	retrograde	6207 Jul 03 11:51	18° \mathbb{H} 14'48	
morning rise	6201 Sep 27 06:36	27° \mathbb{M} 45'15		opposition	6207 Sep 02 06:21	13° \mathbb{H} 21'38	-0°26'35
	6201 Oct 07 09:03	0° \mathbb{L}		min. Earth dist.	6207 Sep 03 19:32	13° \mathbb{H} 09'41	4.22445 AU
retrograde	6202 Jan 30 10:31	16° \mathbb{L} 02'20		direct	6207 Nov 02 16:09	8° \mathbb{H} 23'20	
min. Earth dist.	6202 Mar 30 08:17	11° \mathbb{L} 09'06	4.28588 AU	evening set	6208 Mar 07 05:21	26° \mathbb{H} 58'58	
opposition	6202 Mar 31 10:07	11° \mathbb{L} 00'27	0°58'19	max. Earth dist.	6208 Mar 18 02:31	29° \mathbb{H} 31'03	6.14182 AU
direct	6202 May 30 15:43	5° \mathbb{L} 59'21					
evening set	6202 Oct 04 02:12	24° \mathbb{L} 00'13		conjunction	6208 Mar 19 23:42	29° \mathbb{H} 57'27	-0°31'56
				minimum elong	6208 Mar 19 23:41	29° \mathbb{H} 57'27	0°31'56
conjunction	6202 Oct 17 12:55	26° \mathbb{L} 56'39	0°48'32		6208 Mar 20 04:03	0° \mathbb{Y}	
minimum elong	6202 Oct 17 12:54	26° \mathbb{L} 56'39	0°48'33	morning rise	6208 Apr 01 18:31	2° \mathbb{Y} 56'27	
max. Earth dist.	6202 Oct 18 13:41	27° \mathbb{L} 10'13	6.35933 AU	retrograde	6208 Aug 07 12:13	22° \mathbb{Y} 08'19	
morning rise	6202 Oct 30 22:13	29° \mathbb{L} 52'07		opposition	6208 Oct 06 20:37	17° \mathbb{Y} 12'55	-1°04'48
	6202 Oct 31 12:44	0° \mathbb{M}		min. Earth dist.	6208 Oct 07 19:48	17° \mathbb{Y} 05'21	4.06168 AU
	6203 Jan 23 14:53	15° \mathbb{M}		direct	6208 Dec 05 19:56	12° \mathbb{Y} 17'02	
retrograde	6203 Mar 02 03:48	17° \mathbb{M} 08'49			6209 Apr 03 15:06	0° \mathbb{B}	
	6203 Apr 08 13:35	15° \mathbb{R} \mathbb{M}		evening set	6209 Apr 10 16:31	1° \mathbb{B} 40'50	
opposition	6203 May 01 11:58	12° \mathbb{M} 10'29	1°17'39				
min. Earth dist.	6203 May 01 05:02	12° \mathbb{M} 12'46	4.41889 AU	conjunction	6209 Apr 23 15:08	4° \mathbb{B} 47'36	-0°51'05
direct	6203 Jul 02 01:34	7° \mathbb{M} 08'27		minimum elong	6209 Apr 23 15:07	4° \mathbb{B} 47'36	0°51'06
	6203 Sep 17 20:52	15° \mathbb{M}		max. Earth dist.	6209 Apr 22 21:43	4° \mathbb{B} 37'07	5.99369 AU
evening set	6203 Nov 05 03:59	24° \mathbb{M} 37'20		morning rise	6209 May 06 15:17	7° \mathbb{B} 55'32	
					6209 Jun 06 02:25	15° \mathbb{B}	
conjunction	6203 Nov 18 08:40	27° \mathbb{M} 27'16	0°54'37	retrograde	6209 Sep 14 16:55	28° \mathbb{B} 16'57	
minimum elong	6203 Nov 18 08:40	27° \mathbb{M} 27'16	0°54'39	opposition	6209 Nov 13 12:59	23° \mathbb{B} 18'23	-1°21'21
max. Earth dist.	6203 Nov 18 04:45	27° \mathbb{M} 25'09	6.46177 AU	min. Earth dist.	6209 Nov 13 13:06	23° \mathbb{B} 18'20	3.94348 AU
	6203 Nov 30 05:06	0° \mathbb{J}		direct	6210 Jan 11 03:26	18° \mathbb{B} 24'15	
morning rise	6203 Dec 01 10:57	0° \mathbb{J} 15'58			6210 Apr 11 12:59	0° \mathbb{I}	
retrograde	6204 Mar 30 21:28	16° \mathbb{J} 58'20		evening set	6210 May 17 08:44	8° \mathbb{I} 21'02	
opposition	6204 May 30 14:58	12° \mathbb{J} 03'14	1°15'19				
min. Earth dist.	6204 May 31 02:36	11° \mathbb{J} 59'29	4.48549 AU	conjunction	6210 May 30 14:21	11° \mathbb{I} 34'43	-0°51'23
direct	6204 Aug 01 01:12	7° \mathbb{J} 01'08		minimum elong	6210 May 30 14:22	11° \mathbb{I} 34'44	0°51'26
evening set	6204 Dec 04 20:54	24° \mathbb{J} 16'56		max. Earth dist.	6210 May 31 08:26	11° \mathbb{I} 45'46	5.91704 AU
				morning rise	6210 Jun 12 22:51	14° \mathbb{I} 49'59	
conjunction	6204 Dec 17 20:07	27° \mathbb{J} 03'45	0°45'57		6210 Aug 22 12:44	0° \mathbb{G}	
minimum elong	6204 Dec 17 20:09	27° \mathbb{J} 03'46	0°45'59	retrograde	6210 Oct 23 10:05	5° \mathbb{G} 42'51	
max. Earth dist.	6204 Dec 16 13:40	26° \mathbb{J} 47'23	6.48761 AU	opposition	6210 Dec 21 22:51	0° \mathbb{G} 40'39	-1°05'18
morning rise	6204 Dec 30 16:51	29° \mathbb{J} 49'27		min. Earth dist.	6210 Dec 20 22:19	0° \mathbb{G} 48'57	3.91862 AU
	6204 Dec 31 12:37	0° \mathbb{Z}			6210 Dec 26 23:35	30° \mathbb{R} \mathbb{I}	
retrograde	6205 Apr 29 21:25	16° \mathbb{Z} 27'19		direct	6211 Feb 17 18:46	25° \mathbb{I} 46'09	
opposition	6205 Jun 29 19:39	11° \mathbb{Z} 34'22	0°53'34		6211 Apr 10 03:11	0° \mathbb{G}	
min. Earth dist.	6205 Jul 01 00:40	11° \mathbb{Z} 25'06	4.46971 AU	evening set	6211 Jun 24 07:33	15° \mathbb{G} 43'26	
direct	6205 Aug 31 14:52	6° \mathbb{Z} 32'50					
evening set	6206 Jan 04 03:08	23° \mathbb{Z} 56'29		conjunction	6211 Jul 07 20:45	18° \mathbb{G} 59'20	-0°30'58
max. Earth dist.	6206 Jan 14 20:40	26° \mathbb{Z} 16'43	6.43072 AU	minimum elong	6211 Jul 07 20:47	18° \mathbb{G} 59'21	0°31'01
				max. Earth dist.	6211 Jul 09 22:07	19° \mathbb{G} 29'07	5.94617 AU
conjunction	6206 Jan 16 22:27	26° \mathbb{Z} 43'56	0°25'08	morning rise	6211 Jul 21 12:31	22° \mathbb{G} 16'26	
minimum elong	6206 Jan 16 22:28	26° \mathbb{Z} 43'57	0°25'10		6211 Aug 24 01:22	0° \mathbb{Q}	
morning rise	6206 Jan 29 15:56	29° \mathbb{Z} 30'38		retrograde	6211 Nov 29 19:13	12° \mathbb{Q} 43'16	
	6206 Jan 31 22:03	0° \mathbb{W}		min. Earth dist.	6212 Jan 26 17:44	7° \mathbb{Q} 51'17	3.99827 AU
	6206 Apr 28 20:04	15° \mathbb{W}		opposition	6212 Jan 28 06:28	7° \mathbb{Q} 38'46	-0°22'56
retrograde	6206 May 31 02:51	16° \mathbb{W} 34'29		direct	6212 Mar 26 09:20	2° \mathbb{Q} 41'57	
	6206 Jul 02 12:28	15° \mathbb{R} \mathbb{W}			6212 Jun 29 08:46	15° \mathbb{Q}	
opposition	6206 Jul 31 01:49	11° \mathbb{W} 42'08	0°17'02	evening set	6212 Jul 30 22:56	22° \mathbb{Q} 07'16	
min. Earth dist.	6206 Aug 01 16:17	11° \mathbb{W} 29'51	4.37480 AU	asc. node	6212 Jul 30 22:52	22° \mathbb{Q} 07'13	
direct	6206 Oct 01 12:18	6° \mathbb{W} 41'48					
	6206 Dec 19 23:30	15° \mathbb{W}		conjunction	6212 Aug 13 15:51	25° \mathbb{Q} 19'06	0°01'10
desc. node	6207 Jan 04 17:39	18° \mathbb{W} 04'05		minimum elong	6212 Aug 13 15:51	25° \mathbb{Q} 19'06	0°01'09
evening set	6207 Feb 03 22:18	24° \mathbb{W} 33'37		behind sun begin	6212 Aug 13 07:27	25° \mathbb{Q} 14'13	
max. Earth dist.	6207 Feb 14 09:50	26° \mathbb{W} 54'43	6.30446 AU	behind sun end	6212 Aug 14 00:15	25° \mathbb{Q} 23'58	
				max. Earth dist.	6212 Aug 16 04:37	25° \mathbb{Q} 54'34	6.06782 AU
conjunction	6207 Feb 16 15:59	27° \mathbb{W} 25'13	-0°03'18	morning rise	6212 Aug 27 09:54	28° \mathbb{Q} 31'13	
minimum elong	6207 Feb 16 15:59	27° \mathbb{W} 25'13	0°03'17		6212 Sep 02 20:07	0° \mathbb{M}	
behind sun begin	6207 Feb 16 08:04	27° \mathbb{W} 20'46		retrograde	6213 Jan 02 14:35	17° \mathbb{M} 51'18	
behind sun end	6207 Feb 16 23:55	27° \mathbb{W} 29'39		min. Earth dist.	6213 Mar 01 18:37	12° \mathbb{M} 59'27	4.14775 AU
	6207 Feb 28 02:57	0° \mathbb{H}		opposition	6213 Mar 03 06:45	12° \mathbb{M} 47'13	0°25'38

direct	6213 May 01 09:07	7° \mathbb{M} 47'46		conjunction	6219 Feb 21 02:26	2° \mathbb{X} 01'11	-0°07'30
evening set	6213 Sep 04 22:17	26° \mathbb{M} 25'56		minimum elong	6219 Feb 21 02:25	2° \mathbb{X} 01'10	0°07'29
				behind sun begin	6219 Feb 20 19:08	1° \mathbb{X} 57'04	
conjunction	6213 Sep 18 13:19	29° \mathbb{M} 29'35	0°31'23	behind sun end	6219 Feb 21 09:42	2° \mathbb{X} 05'16	
minimum elong	6213 Sep 18 13:18	29° \mathbb{M} 29'34	0°31'24	morning rise	6219 Mar 05 19:15	4° \mathbb{X} 53'37	
	6213 Sep 20 19:24	0° \mathbb{L}		retrograde	6219 Jul 08 11:08	23° \mathbb{X} 02'42	
max. Earth dist.	6213 Sep 20 12:04	29° \mathbb{M} 55'53	6.23149 AU	opposition	6219 Sep 07 03:44	18° \mathbb{X} 09'17	-0°32'40
morning rise	6213 Oct 02 04:09	2° \mathbb{L} 32'45		min. Earth dist.	6219 Sep 08 15:27	17° \mathbb{X} 57'46	4.19765 AU
retrograde	6214 Feb 03 20:27	20° \mathbb{L} 39'06		direct	6219 Nov 07 08:38	13° \mathbb{X} 11'18	
opposition	6214 Apr 04 21:13	15° \mathbb{L} 37'40	1°02'16		6220 Mar 03 16:39	0° \mathbb{Y}	
min. Earth dist.	6214 Apr 03 22:26	15° \mathbb{L} 45'17	4.31024 AU	evening set	6220 Mar 11 23:38	1° \mathbb{Y} 55'07	
direct	6214 Jun 04 08:28	10° \mathbb{L} 36'21		max. Earth dist.	6220 Mar 23 01:41	4° \mathbb{Y} 30'53	6.11576 AU
evening set	6214 Oct 08 16:32	28° \mathbb{L} 30'49					
	6214 Oct 15 12:40	0° \mathbb{M}		conjunction	6220 Mar 24 18:35	4° \mathbb{Y} 54'55	-0°35'27
				minimum elong	6220 Mar 24 18:33	4° \mathbb{Y} 54'54	0°35'28
conjunction	6214 Oct 22 02:32	1° \mathbb{M} 26'05	0°50'16	morning rise	6220 Apr 06 13:51	7° \mathbb{Y} 55'16	
minimum elong	6214 Oct 22 02:31	1° \mathbb{M} 26'04	0°50'17	retrograde	6220 Aug 12 20:56	27° \mathbb{Y} 18'51	
max. Earth dist.	6214 Oct 23 00:21	1° \mathbb{M} 37'59	6.38013 AU	opposition	6220 Oct 12 03:04	22° \mathbb{Y} 23'08	-1°08'49
morning rise	6214 Nov 04 10:39	4° \mathbb{M} 20'16		min. Earth dist.	6220 Oct 12 23:33	22° \mathbb{Y} 16'26	4.03889 AU
	6214 Dec 28 02:09	15° \mathbb{M}		direct	6220 Dec 10 21:16	17° \mathbb{Y} 27'37	
retrograde	6215 Mar 06 07:05	21° \mathbb{M} 29'44			6221 Mar 16 19:39	0° \mathbb{B}	
opposition	6215 May 05 17:35	16° \mathbb{M} 31'55	1°18'31	evening set	6221 Apr 15 19:44	6° \mathbb{B} 58'10	
min. Earth dist.	6215 May 05 12:41	16° \mathbb{M} 33'31	4.43479 AU				
	6215 May 17 15:14	15° \mathbb{R} \mathbb{M}		conjunction	6221 Apr 28 19:04	10° \mathbb{B} 06'06	-0°52'24
direct	6215 Jul 06 09:38	11° \mathbb{M} 29'52		minimum elong	6221 Apr 28 19:03	10° \mathbb{B} 06'06	0°52'25
	6215 Aug 25 09:10	15° \mathbb{M}		max. Earth dist.	6221 Apr 28 05:40	9° \mathbb{B} 58'00	5.97630 AU
evening set	6215 Nov 09 11:58	28° \mathbb{M} 55'10		morning rise	6221 May 11 20:28	13° \mathbb{B} 15'20	
	6215 Nov 14 13:18	0° \mathbb{X}			6221 May 19 03:26	15° \mathbb{B}	
					6221 Aug 01 17:20	0° \mathbb{I}	
conjunction	6215 Nov 22 15:40	1° \mathbb{X} 44'22	0°54'12	retrograde	6221 Sep 20 05:10	3° \mathbb{I} 44'22	
minimum elong	6215 Nov 22 15:40	1° \mathbb{X} 44'22	0°54'15		6221 Nov 09 13:59	30° \mathbb{R} \mathbb{B}	
max. Earth dist.	6215 Nov 22 06:22	1° \mathbb{X} 39'22	6.47153 AU	opposition	6221 Nov 19 00:49	28° \mathbb{B} 45'13	-1°21'03
morning rise	6215 Dec 05 17:08	4° \mathbb{X} 32'22		min. Earth dist.	6221 Nov 18 19:57	28° \mathbb{B} 46'50	3.93366 AU
retrograde	6216 Apr 04 02:01	21° \mathbb{X} 12'07		direct	6222 Jan 16 11:02	23° \mathbb{B} 51'09	
opposition	6216 Jun 03 19:06	16° \mathbb{X} 17'27	1°13'19		6222 Mar 20 12:10	0° \mathbb{I}	
min. Earth dist.	6216 Jun 04 10:40	16° \mathbb{X} 12'26	4.48860 AU	evening set	6222 May 22 17:55	13° \mathbb{I} 49'52	
direct	6216 Aug 05 08:23	11° \mathbb{X} 15'23					
evening set	6216 Dec 09 01:54	28° \mathbb{X} 31'07		conjunction	6222 Jun 05 00:45	17° \mathbb{I} 04'10	-0°49'36
	6216 Dec 15 23:50	0° \mathbb{Z}		minimum elong	6222 Jun 05 00:46	17° \mathbb{I} 04'11	0°49'37
max. Earth dist.	6216 Dec 20 13:54	0° \mathbb{Z} 59'13	6.48369 AU	max. Earth dist.	6222 Jun 06 01:16	17° \mathbb{I} 19'08	5.91578 AU
				morning rise	6222 Jun 18 10:17	20° \mathbb{I} 19'58	
conjunction	6216 Dec 22 00:32	1° \mathbb{Z} 17'51	0°43'40		6222 Jul 30 10:12	0° \mathbb{E}	
minimum elong	6216 Dec 22 00:33	1° \mathbb{Z} 17'52	0°43'43	retrograde	6222 Oct 28 21:03	11° \mathbb{E} 11'50	
morning rise	6217 Jan 03 20:43	4° \mathbb{Z} 03'30		min. Earth dist.	6222 Dec 26 06:41	6° \mathbb{E} 18'06	3.92592 AU
retrograde	6217 May 04 03:22	20° \mathbb{Z} 43'36		opposition	6222 Dec 27 09:13	6° \mathbb{E} 09'06	-1°00'24
opposition	6217 Jul 04 01:53	15° \mathbb{Z} 50'49	0°49'12	direct	6223 Feb 23 06:02	1° \mathbb{E} 14'19	
min. Earth dist.	6217 Jul 05 08:34	15° \mathbb{Z} 41'00	4.45911 AU	evening set	6223 Jun 29 17:21	21° \mathbb{E} 07'41	
direct	6217 Sep 04 19:42	10° \mathbb{Z} 49'23					
evening set	6218 Jan 08 09:01	28° \mathbb{Z} 16'37		conjunction	6223 Jul 13 07:23	24° \mathbb{E} 23'14	-0°26'46
	6218 Jan 16 06:24	0° \mathbb{A}		minimum elong	6223 Jul 13 07:24	24° \mathbb{E} 23'15	0°26'48
max. Earth dist.	6218 Jan 19 01:36	0° \mathbb{A} 36'51	6.41418 AU	max. Earth dist.	6223 Jul 15 12:49	24° \mathbb{E} 55'19	5.96107 AU
				morning rise	6223 Jul 26 23:45	27° \mathbb{E} 39'51	
conjunction	6218 Jan 21 04:08	1° \mathbb{A} 04'35	0°21'29		6223 Aug 05 21:03	0° \mathbb{O}	
minimum elong	6218 Jan 21 04:08	1° \mathbb{A} 04'36	0°21'31		6223 Oct 22 08:54	15° \mathbb{O}	
morning rise	6218 Feb 02 21:14	3° \mathbb{A} 51'49		retrograde	6223 Dec 04 21:19	17° \mathbb{O} 57'43	
	6218 Mar 30 20:48	15° \mathbb{A}			6224 Jan 17 08:43	15° \mathbb{R} \mathbb{O}	
retrograde	6218 Jun 04 16:13	21° \mathbb{A} 02'36		min. Earth dist.	6224 Jan 31 19:07	13° \mathbb{O} 06'01	4.01892 AU
opposition	6218 Aug 04 14:16	16° \mathbb{A} 10'17	0°11'07	opposition	6224 Feb 02 09:02	12° \mathbb{O} 53'07	-0°15'52
min. Earth dist.	6218 Aug 06 05:48	15° \mathbb{A} 57'41	4.35321 AU	direct	6224 Mar 31 14:03	7° \mathbb{O} 55'54	
	6218 Aug 13 20:27	15° \mathbb{R} \mathbb{A}			6224 Jun 08 16:12	15° \mathbb{O}	
direct	6218 Oct 05 21:44	11° \mathbb{A} 10'15		asc. node	6224 Jun 09 00:32	15° \mathbb{O} 03'47	
desc. node	6218 Nov 14 11:01	13° \mathbb{A} 27'22		evening set	6224 Aug 05 03:52	27° \mathbb{O} 13'59	
	6218 Nov 26 19:08	15° \mathbb{A}			6224 Aug 17 02:10	0° \mathbb{M}	
evening set	6219 Feb 08 08:52	29° \mathbb{A} 08'36					
	6219 Feb 12 04:13	0° \mathbb{X}		conjunction	6224 Aug 18 20:35	0° \mathbb{M} 24'38	0°05'53
max. Earth dist.	6219 Feb 18 19:12	1° \mathbb{X} 29'53	6.27941 AU	minimum elong	6224 Aug 18 20:36	0° \mathbb{M} 24'39	0°05'52
				behind sun begin	6224 Aug 18 12:37	0° \mathbb{M} 20'02	

behind sun end	6224 Aug 19 04:35	0°♎29'15		max. Earth dist.	6231 Feb 23 10:32	6°♎11'45	6.25591 AU
max. Earth dist.	6224 Aug 21 07:04	0°♎58'35	6.09206 AU				
morning rise	6224 Sep 01 14:35	3°♎35'33		conjunction	6231 Feb 25 15:11	6°♎41'44	-0°11'46
retrograde	6225 Jan 07 06:00	22°♎44'05		minimum elong	6231 Feb 25 15:10	6°♎41'44	0°11'44
min. Earth dist.	6225 Mar 06 13:38	17°♎51'52	4.17307 AU	behind sun begin	6231 Feb 25 09:29	6°♎38'30	
opposition	6225 Mar 08 00:03	17°♎40'13	0°31'50	behind sun end	6231 Feb 25 20:52	6°♎44'58	
direct	6225 May 06 07:18	12°♎40'24		morning rise	6231 Mar 10 08:03	9°♎35'12	
	6225 Sep 04 10:32	0°♎		retrograde	6231 Jul 13 12:17	27°♎54'36	
evening set	6225 Sep 09 19:01	1°♎11'13		opposition	6231 Sep 12 03:12	23°♎01'00	-0°38'40
				min. Earth dist.	6231 Sep 13 13:40	22°♎49'54	4.17406 AU
conjunction	6225 Sep 23 09:38	4°♎13'35	0°34'52	direct	6231 Nov 12 03:36	18°♎03'31	
minimum elong	6225 Sep 23 09:36	4°♎13'34	0°34'53		6232 Feb 15 05:28	0°♎	
max. Earth dist.	6225 Sep 25 06:13	4°♎38'31	6.25593 AU	evening set	6232 Mar 16 19:25	6°♎54'14	
morning rise	6225 Oct 06 23:27	7°♎15'18		max. Earth dist.	6232 Mar 28 00:13	9°♎32'25	6.09422 AU
retrograde	6226 Feb 08 04:41	25°♎11'53					
min. Earth dist.	6226 Apr 08 10:24	20°♎17'50	4.33190 AU	conjunction	6232 Mar 29 14:39	9°♎55'07	-0°38'47
opposition	6226 Apr 09 07:02	20°♎10'59	1°05'51	minimum elong	6232 Mar 29 14:38	9°♎55'06	0°38'48
direct	6226 Jun 08 22:17	15°♎09'32		morning rise	6232 Apr 11 10:43	12°♎56'43	
	6226 Sep 29 07:20	0°♎			6232 Jul 08 18:53	0°♎	
evening set	6226 Oct 13 05:54	2°♎58'36		retrograde	6232 Aug 18 04:20	2°♎30'23	
					6232 Sep 27 23:30	30°♎	
conjunction	6226 Oct 26 14:51	5°♎52'47	0°51'43	opposition	6232 Oct 17 10:07	27°♎34'13	-1°12'21
minimum elong	6226 Oct 26 14:50	5°♎52'46	0°51'45	min. Earth dist.	6232 Oct 18 02:03	27°♎29'00	4.02167 AU
max. Earth dist.	6226 Oct 27 06:39	6°♎01'22	6.39735 AU	direct	6232 Dec 15 23:01	22°♎39'03	
morning rise	6226 Nov 08 22:09	8°♎45'55			6233 Feb 24 11:04	0°♎	
	6226 Dec 08 19:35	15°♎		evening set	6233 Apr 20 22:28	12°♎14'10	
retrograde	6227 Mar 10 12:23	25°♎49'31			6233 May 02 08:46	15°♎	
opposition	6227 May 09 23:13	20°♎52'11	1°19'01				
min. Earth dist.	6227 May 09 22:09	20°♎52'32	4.44671 AU	conjunction	6233 May 03 22:44	15°♎23'02	-0°53'19
direct	6227 Jul 10 19:42	15°♎50'02		minimum elong	6233 May 03 22:43	15°♎23'01	0°53'21
	6227 Oct 29 12:44	0°♎		max. Earth dist.	6233 May 03 16:03	15°♎18'59	5.96515 AU
evening set	6227 Nov 13 20:02	3°♎12'59		morning rise	6233 May 17 00:59	18°♎33'12	
					6233 Jul 07 00:07	0°♎	
conjunction	6227 Nov 26 23:08	6°♎01'41	0°53'32	retrograde	6233 Sep 25 16:54	9°♎07'17	
minimum elong	6227 Nov 26 23:08	6°♎01'41	0°53'33	opposition	6233 Nov 24 10:50	4°♎07'35	-1°20'05
max. Earth dist.	6227 Nov 26 10:46	5°♎55'03	6.47734 AU	min. Earth dist.	6233 Nov 24 03:11	4°♎10'09	3.92999 AU
morning rise	6227 Dec 09 23:38	8°♎49'09			6233 Dec 31 09:33	30°♎	
retrograde	6228 Apr 08 05:15	25°♎27'28		direct	6234 Jan 21 19:02	29°♎13'35	
opposition	6228 Jun 08 00:08	20°♎33'09	1°10'56		6234 Feb 12 02:10	0°♎	
min. Earth dist.	6228 Jun 08 17:27	20°♎27'35	4.48818 AU	evening set	6234 May 28 00:50	19°♎12'02	
direct	6228 Aug 09 13:46	15°♎31'10					
	6228 Nov 30 02:27	0°♎		conjunction	6234 Jun 10 08:40	22°♎26'38	-0°47'26
evening set	6228 Dec 13 08:04	2°♎47'47		minimum elong	6234 Jun 10 08:42	22°♎26'39	0°47'28
max. Earth dist.	6228 Dec 24 16:13	5°♎14'07	6.47700 AU	max. Earth dist.	6234 Jun 11 14:26	22°♎44'46	5.91982 AU
				morning rise	6234 Jun 23 19:16	25°♎42'43	
conjunction	6228 Dec 26 06:03	5°♎34'32	0°41'07		6234 Jul 11 19:34	0°♎	
minimum elong	6228 Dec 26 06:04	5°♎34'33	0°41'10	retrograde	6234 Nov 03 03:19	16°♎31'14	
morning rise	6229 Jan 08 01:45	8°♎20'16		min. Earth dist.	6234 Dec 31 10:03	11°♎38'04	3.93742 AU
retrograde	6229 May 08 12:46	25°♎03'30		opposition	6235 Jan 01 15:17	11°♎28'10	-0°55'09
opposition	6229 Jul 08 10:27	20°♎10'56	0°44'29	direct	6235 Feb 28 11:45	6°♎33'08	
min. Earth dist.	6229 Jul 09 19:45	20°♎00'18	4.44650 AU	evening set	6235 Jul 04 23:11	26°♎21'32	
direct	6229 Sep 09 04:19	15°♎09'41					
	6229 Dec 31 06:37	0°♎		conjunction	6235 Jul 18 13:40	29°♎36'30	-0°22'30
evening set	6230 Jan 12 16:41	2°♎40'53		minimum elong	6235 Jul 18 13:41	29°♎36'31	0°22'32
max. Earth dist.	6230 Jan 23 06:28	5°♎00'12	6.39651 AU		6235 Jul 20 04:59	0°♎	
				max. Earth dist.	6235 Jul 20 19:31	0°♎08'42	5.97853 AU
conjunction	6230 Jan 25 11:28	5°♎29'25	0°17'37	morning rise	6235 Aug 01 06:39	2°♎52'30	
minimum elong	6230 Jan 25 11:29	5°♎29'25	0°17'38		6235 Sep 25 19:35	15°♎	
morning rise	6230 Feb 07 04:29	8°♎17'17		retrograde	6235 Dec 09 17:43	23°♎01'00	
	6230 Mar 10 22:30	15°♎		min. Earth dist.	6236 Feb 05 17:05	18°♎09'14	4.04026 AU
retrograde	6230 Jun 09 07:46	25°♎35'31		opposition	6236 Feb 07 06:55	17°♎56'20	-0°08'59
opposition	6230 Aug 09 05:13	20°♎43'08	0°04'58		6236 Mar 01 12:12	15°♎	
min. Earth dist.	6230 Aug 10 20:07	20°♎30'42	4.33169 AU	direct	6236 Apr 05 15:04	12°♎58'44	
desc. node	6230 Sep 23 07:50	16°♎10'06		asc. node	6236 Apr 19 15:47	13°♎18'45	
direct	6230 Oct 10 08:46	15°♎43'23			6236 May 10 21:46	15°♎	
	6231 Jan 26 18:08	0°♎			6236 Jul 31 16:29	0°♎	
evening set	6231 Feb 12 21:30	3°♎48'12		evening set	6236 Aug 10 03:51	2°♎09'48	

conjunction	6236 Aug 23 20:40	5° \cap 19'24	0°10'20		6242 Jun 04 06:35	0° H	
minimum elong	6236 Aug 23 20:40	5° \cap 19'24	0°10'19	retrograde	6242 Jun 13 23:56	0° H 08'49	
behind sun begin	6236 Aug 23 14:07	5° \cap 15'38			6242 Jun 23 16:12	30° R \approx	
behind sun end	6236 Aug 24 03:12	5° \cap 23'09		desc. node	6242 Aug 02 18:55	26° \approx 39'49	
max. Earth dist.	6236 Aug 26 06:38	5° \cap 52'52	6.11541 AU	opposition	6242 Aug 13 20:24	25° \approx 16'19	-0°01'14
morning rise	6236 Sep 06 14:10	8° \cap 29'02		min. Earth dist.	6242 Aug 15 11:58	25° \approx 03'40	4.31202 AU
retrograde	6237 Jan 11 18:45	27° \cap 27'03		direct	6242 Oct 14 22:06	20° \approx 16'50	
min. Earth dist.	6237 Mar 11 04:55	22° \cap 34'30	4.19612 AU		6243 Jan 09 00:54	0° H	
opposition	6237 Mar 12 13:20	22° \cap 23'34	0°37'34	evening set	6243 Feb 17 09:30	8° H 27'01	
direct	6237 May 11 00:53	17° \cap 23'32		max. Earth dist.	6243 Feb 27 22:55	10° H 51'29	6.23485 AU
	6237 Aug 18 14:59	0° $\underline{\cap}$					
evening set	6237 Sep 14 12:03	5° $\underline{\cap}$ 48'05		conjunction	6243 Mar 02 03:11	11° H 21'23	-0°15'55
				minimum elong	6243 Mar 02 03:10	11° H 21'23	0°15'55
conjunction	6237 Sep 28 01:53	8° $\underline{\cap}$ 49'17	0°38'01	behind sun begin	6243 Mar 02 01:31	11° H 20'27	
minimum elong	6237 Sep 28 01:52	8° $\underline{\cap}$ 49'16	0°38'01	behind sun end	6243 Mar 02 04:49	11° H 22'19	
max. Earth dist.	6237 Sep 29 17:45	9° $\underline{\cap}$ 11'28	6.27678 AU	morning rise	6243 Mar 14 20:22	14° H 15'49	
morning rise	6237 Oct 11 15:04	11° $\underline{\cap}$ 49'48			6243 Jun 05 18:17	0° Y	
retrograde	6238 Feb 12 10:02	29° $\underline{\cap}$ 38'18		retrograde	6243 Jul 18 10:35	2° Y 44'32	
opposition	6238 Apr 13 13:57	24° $\underline{\cap}$ 37'53	1°08'56		6243 Aug 30 17:39	30° R H	
min. Earth dist.	6238 Apr 12 20:05	24° $\underline{\cap}$ 43'49	4.34925 AU	opposition	6243 Sep 17 01:44	27° H 50'34	-0°44'21
direct	6238 Jun 13 09:27	19° $\underline{\cap}$ 36'16		min. Earth dist.	6243 Sep 18 09:20	27° H 40'22	4.15299 AU
	6238 Sep 12 02:21	0° M		direct	6243 Nov 16 21:05	22° H 53'21	
evening set	6238 Oct 17 16:33	7° M 21'30			6244 Jan 26 11:08	0° Y	
				evening set	6244 Mar 21 13:53	11° Y 49'59	
conjunction	6238 Oct 31 00:52	10° M 14'53	0°52'51	max. Earth dist.	6244 Apr 01 23:50	14° Y 31'52	6.07489 AU
minimum elong	6238 Oct 31 00:51	10° M 14'53	0°52'53				
max. Earth dist.	6238 Oct 31 13:33	10° M 21'46	6.41014 AU	conjunction	6244 Apr 03 09:38	14° Y 51'54	-0°41'48
morning rise	6238 Nov 13 07:06	13° M 07'08		minimum elong	6244 Apr 03 09:36	14° Y 51'53	0°41'48
	6238 Nov 22 02:16	15° M		morning rise	6244 Apr 16 06:12	17° Y 54'35	
	6239 Mar 06 09:30	0° X			6244 Jun 11 00:37	0° B	
retrograde	6239 Mar 14 15:10	0° X 06'28		retrograde	6244 Aug 23 12:11	7° B 37'25	
	6239 Mar 22 20:37	30° R M		opposition	6244 Oct 22 15:15	2° B 40'47	-1°15'16
opposition	6239 May 14 03:30	25° M 09'39	1°19'06	min. Earth dist.	6244 Oct 23 05:06	2° B 36'14	4.00574 AU
min. Earth dist.	6239 May 14 04:45	25° M 09'14	4.45437 AU		6244 Nov 13 05:32	30° R Y	
direct	6239 Jul 15 02:42	20° M 07'33		direct	6244 Dec 21 00:44	27° Y 45'50	
	6239 Oct 12 07:16	0° X			6245 Jan 27 05:40	0° B	
evening set	6239 Nov 18 02:51	7° X 29'18			6245 Apr 15 21:06	15° B	
max. Earth dist.	6239 Nov 30 11:39	10° X 08'17	6.47934 AU	evening set	6245 Apr 25 23:46	17° B 25'14	
conjunction	6239 Dec 01 05:04	10° X 17'37	0°52'34	conjunction	6245 May 09 00:57	20° B 35'02	-0°53'47
minimum elong	6239 Dec 01 05:04	10° X 17'38	0°52'36	minimum elong	6245 May 09 00:57	20° B 35'02	0°53'50
morning rise	6239 Dec 14 05:01	13° X 04'47		max. Earth dist.	6245 May 08 22:35	20° B 33'36	5.95413 AU
retrograde	6240 Apr 12 10:40	29° X 42'55		morning rise	6245 May 22 04:21	23° B 46'13	
opposition	6240 Jun 12 05:17	24° X 48'54	1°08'13		6245 Jun 17 16:08	0° II	
min. Earth dist.	6240 Jun 13 01:40	24° X 42'21	4.48467 AU	retrograde	6245 Oct 01 01:06	14° II 25'02	
direct	6240 Aug 13 21:02	19° X 46'57		opposition	6245 Nov 29 18:32	9° II 24'52	-1°18'27
	6240 Nov 13 01:00	0° Z		min. Earth dist.	6245 Nov 29 07:02	9° II 28'42	3.92537 AU
evening set	6240 Dec 17 13:49	7° Z 05'05		direct	6246 Jan 26 22:48	4° II 30'51	
max. Earth dist.	6240 Dec 28 19:50	9° Z 30'35	6.46829 AU	evening set	6246 Jun 02 06:35	24° II 29'48	
conjunction	6240 Dec 30 11:25	9° Z 52'00	0°38'22	conjunction	6246 Jun 15 15:24	27° II 44'47	-0°44'54
minimum elong	6240 Dec 30 11:27	9° Z 52'00	0°38'24	minimum elong	6246 Jun 15 15:25	27° II 44'48	0°44'57
morning rise	6241 Jan 12 06:33	12° Z 37'52		max. Earth dist.	6246 Jun 17 00:05	28° II 04'41	5.92190 AU
retrograde	6241 May 12 20:18	29° Z 24'42			6246 Jun 24 21:53	0° G	
opposition	6241 Jul 12 19:08	24° Z 32'11	0°39'31	morning rise	6246 Jun 29 03:10	1° G 01'16	
min. Earth dist.	6241 Jul 14 04:34	24° Z 21'30	4.43324 AU	retrograde	6246 Nov 08 07:56	21° G 47'25	
direct	6241 Sep 13 11:05	19° Z 31'06		opposition	6247 Jan 06 20:09	16° G 43'57	-0°49'31
	6241 Dec 14 04:07	0° \approx		min. Earth dist.	6247 Jan 05 13:05	16° G 54'30	3.94587 AU
evening set	6242 Jan 17 00:26	7° \approx 06'08		direct	6247 Mar 05 17:30	11° G 48'35	
max. Earth dist.	6242 Jan 27 14:03	9° \approx 25'56	6.37965 AU		6247 Jul 03 14:24	0° Ω	
				evening set	6247 Jul 10 04:49	1° Ω 33'29	
conjunction	6242 Jan 29 18:53	9° \approx 55'10	0°13'40				
minimum elong	6242 Jan 29 18:54	9° \approx 55'11	0°13'42	conjunction	6247 Jul 23 20:07	4° Ω 48'07	-0°18'04
behind sun begin	6242 Jan 29 14:31	9° \approx 52'47		minimum elong	6247 Jul 23 20:08	4° Ω 48'08	0°18'06
behind sun end	6242 Jan 29 23:16	9° \approx 57'35		max. Earth dist.	6247 Jul 26 04:49	5° Ω 21'53	5.99260 AU
morning rise	6242 Feb 11 11:43	12° \approx 43'39		morning rise	6247 Aug 06 13:23	8° Ω 03'35	
	6242 Feb 21 21:29	15° \approx			6247 Sep 05 22:35	15° Ω	

retrograde	6247 Dec 14 16:16	28°♏04'03			6253 Mar 27 10:03	0°♏	
min. Earth dist.	6248 Feb 10 15:45	23°♏12'06	4.05820 AU	retrograde	6253 May 17 04:42	3°♏43'49	
opposition	6248 Feb 12 04:58	22°♏59'26	-0°02'02		6253 Jul 08 01:53	30°♏	
asc. node	6248 Feb 28 13:42	20°♏50'31		opposition	6253 Jul 17 03:23	28°♏51'23	0°34'28
direct	6248 Apr 10 16:13	18°♏01'30		min. Earth dist.	6253 Jul 18 14:47	28°♏40'06	4.42594 AU
	6248 Jul 14 02:11	0°♏		direct	6253 Sep 17 20:04	23°♏50'29	
evening set	6248 Aug 15 05:19	7°♏07'01			6253 Nov 24 14:08	0°♏	
				evening set	6254 Jan 21 06:07	11°♏27'20	
conjunction	6248 Aug 28 21:57	10°♏15'39	0°14'45	max. Earth dist.	6254 Jan 31 18:47	13°♏46'59	6.36845 AU
minimum elong	6248 Aug 28 21:56	10°♏15'38	0°14'45				
behind sun begin	6248 Aug 28 18:52	10°♏13'53		conjunction	6254 Feb 03 00:19	14°♏16'41	0°09'48
behind sun end	6248 Aug 29 01:01	10°♏17'24		minimum elong	6254 Feb 03 00:20	14°♏16'41	0°09'50
max. Earth dist.	6248 Aug 31 06:03	10°♏47'52	6.13547 AU	behind sun begin	6254 Feb 02 17:48	14°♏13'05	
morning rise	6248 Sep 11 15:16	13°♏24'14		behind sun end	6254 Feb 03 06:51	14°♏20'17	
	6248 Dec 09 17:12	0°♏			6254 Feb 06 06:21	15°♏	
retrograde	6249 Jan 16 07:24	2°♏12'49		morning rise	6254 Feb 15 16:53	17°♏05'30	
	6249 Feb 22 18:13	30°♏			6254 Apr 22 21:24	0°♏	
min. Earth dist.	6249 Mar 15 20:28	27°♏20'16	4.21653 AU	desc. node	6254 Jun 14 16:11	4°♏34'40	
opposition	6249 Mar 17 03:53	27°♏09'41	0°43'08	retrograde	6254 Jun 18 10:47	4°♏36'01	
direct	6249 May 15 18:55	22°♏09'24			6254 Aug 16 04:44	30°♏	
	6249 Jul 30 08:25	0°♏		opposition	6254 Aug 18 08:45	29°♏43'22	-0°07'09
evening set	6249 Sep 19 06:58	10°♏28'42		min. Earth dist.	6254 Aug 19 23:20	29°♏31'02	4.29747 AU
				direct	6254 Oct 19 06:59	24°♏44'08	
conjunction	6249 Oct 02 20:15	13°♏28'49	0°40'59		6254 Dec 19 09:42	0°♏	
minimum elong	6249 Oct 02 20:13	13°♏28'49	0°41'00	evening set	6255 Feb 21 18:22	12°♏58'17	
max. Earth dist.	6249 Oct 04 09:03	13°♏49'15	6.29611 AU	max. Earth dist.	6255 Mar 04 09:15	15°♏24'10	6.21798 AU
morning rise	6249 Oct 16 08:29	16°♏28'10					
	6249 Dec 25 17:32	0°♏		conjunction	6255 Mar 06 12:00	15°♏53'19	-0°19'47
retrograde	6250 Feb 16 19:02	4°♏09'06		minimum elong	6255 Mar 06 11:59	15°♏53'19	0°19'47
	6250 Apr 11 13:11	30°♏		morning rise	6255 Mar 19 05:20	18°♏48'30	
opposition	6250 Apr 17 23:14	29°♏09'16	1°11'42		6255 May 11 06:32	0°♏	
min. Earth dist.	6250 Apr 17 08:01	29°♏14'18	4.36621 AU	retrograde	6255 Jul 23 07:08	7°♏25'24	
direct	6250 Jun 17 23:32	24°♏07'39		opposition	6255 Sep 21 20:11	2°♏31'10	-0°49'30
	6250 Aug 22 12:37	0°♏		min. Earth dist.	6255 Sep 23 03:34	2°♏21'01	4.13479 AU
evening set	6250 Oct 22 05:22	11°♏48'58			6255 Oct 12 06:28	30°♏	
				direct	6255 Nov 21 12:47	27°♏34'11	
conjunction	6250 Nov 04 12:45	14°♏41'29	0°53'44		6255 Dec 31 03:12	0°♏	
minimum elong	6250 Nov 04 12:45	14°♏41'29	0°53'45	evening set	6256 Mar 26 04:14	16°♏36'07	
max. Earth dist.	6250 Nov 04 21:14	14°♏46'04	6.42368 AU	max. Earth dist.	6256 Apr 06 16:34	19°♏20'02	6.05690 AU
	6250 Nov 05 22:58	15°♏					
morning rise	6250 Nov 17 18:10	17°♏32'52		conjunction	6256 Apr 08 00:30	19°♏39'02	-0°44'23
	6251 Jan 22 06:16	0°♏		minimum elong	6256 Apr 08 00:28	19°♏39'01	0°44'23
retrograde	6251 Mar 18 20:06	4°♏27'37		morning rise	6256 Apr 20 21:49	22°♏42'50	
	6251 May 14 17:22	30°♏			6256 May 22 18:21	0°♏	
opposition	6251 May 18 09:49	29°♏31'16	1°18'47	retrograde	6256 Aug 28 13:23	12°♏34'32	
min. Earth dist.	6251 May 18 13:16	29°♏30'08	4.46419 AU	opposition	6256 Oct 27 15:38	7°♏37'30	-1°17'30
direct	6251 Jul 19 12:02	24°♏29'12		min. Earth dist.	6256 Oct 28 02:26	7°♏33'56	3.98976 AU
	6251 Sep 21 16:08	0°♏		direct	6256 Dec 25 19:18	2°♏42'43	
evening set	6251 Nov 22 11:05	11°♏48'55			6257 Mar 29 22:58	15°♏	
				evening set	6257 Apr 30 21:06	22°♏27'00	
conjunction	6251 Dec 05 12:39	14°♏36'45	0°51'22				
minimum elong	6251 Dec 05 12:40	14°♏36'45	0°51'24	conjunction	6257 May 13 23:11	25°♏37'49	-0°53'51
max. Earth dist.	6251 Dec 04 17:46	14°♏26'37	6.48507 AU	minimum elong	6257 May 13 23:11	25°♏37'49	0°53'53
morning rise	6251 Dec 18 11:36	17°♏23'22		max. Earth dist.	6257 May 14 00:06	25°♏38'22	5.94162 AU
	6252 Feb 23 23:11	0°♏		morning rise	6257 May 27 03:45	28°♏50'06	
retrograde	6252 Apr 16 14:36	4°♏00'02			6257 May 31 23:45	0°♏	
	6252 Jun 09 10:54	30°♏		retrograde	6257 Oct 06 06:11	19°♏34'39	
opposition	6252 Jun 16 11:11	29°♏06'21	1°05'10	opposition	6257 Dec 04 22:14	14°♏33'59	-1°16'20
min. Earth dist.	6252 Jun 17 08:43	28°♏59'27	4.48615 AU	min. Earth dist.	6257 Dec 04 08:21	14°♏38'38	3.91775 AU
direct	6252 Aug 18 04:09	24°♏04'36		direct	6258 Feb 01 00:42	9°♏39'51	
	6252 Oct 24 02:34	0°♏		evening set	6258 Jun 07 09:32	29°♏40'56	
evening set	6252 Dec 21 19:37	11°♏22'29			6258 Jun 08 17:02	0°♏	
max. Earth dist.	6253 Jan 01 21:53	13°♏46'12	6.46538 AU				
				conjunction	6258 Jun 20 19:40	2°♏56'36	-0°42'08
conjunction	6253 Jan 03 16:27	14°♏09'15	0°35'29	minimum elong	6258 Jun 20 19:41	2°♏56'37	0°42'11
minimum elong	6253 Jan 03 16:28	14°♏09'16	0°35'30	max. Earth dist.	6258 Jun 22 09:21	3°♏19'31	5.92013 AU
morning rise	6253 Jan 16 11:11	16°♏55'04		morning rise	6258 Jul 04 08:25	6°♏13'39	

retrograde	6258 Nov 13 12:27	26°♄58'56		morning rise	6263 Dec 22 18:03	21°♄41'30	
opposition	6259 Jan 11 22:29	21°♄55'11 -0°43'43			6264 Feb 01 23:20	0°♄	
min. Earth dist.	6259 Jan 10 14:24	22°♄06'06 3.95018 AU		retrograde	6264 Apr 20 20:35	8°♄17'26	
direct	6259 Mar 10 19:40	16°♄59'31		opposition	6264 Jun 20 17:47	3°♄23'57 1°01'41	
	6259 Jun 16 04:49	0°♄		min. Earth dist.	6264 Jun 21 17:46	3°♄16'16 4.48415 AU	
evening set	6259 Jul 15 09:27	6°♄42'48			6264 Jul 19 23:53	30°♄♂	
				direct	6264 Aug 22 11:52	28°♄22'11	
conjunction	6259 Jul 29 01:19	9°♄57'16 -0°13'38			6264 Sep 25 04:22	0°♄	
minimum elong	6259 Jul 29 01:20	9°♄57'16 0°13'40		evening set	6264 Dec 26 01:48	15°♄40'56	
behind sun begin	6259 Jul 28 20:56	9°♄54'40		max. Earth dist.	6265 Jan 06 02:33	18°♄04'04 6.45760 AU	
behind sun end	6259 Jul 29 05:43	9°♄59'52					
max. Earth dist.	6259 Jul 31 11:01	10°♄31'31 6.00247 AU		conjunction	6265 Jan 07 22:16	18°♄27'48 0°32'18	
morning rise	6259 Aug 11 19:16	13°♄12'29		minimum elong	6265 Jan 07 22:17	18°♄27'49 0°32'20	
	6259 Aug 19 11:04	15°♄		morning rise	6265 Jan 20 16:22	21°♄13'43	
	6259 Nov 04 21:01	0°♄			6265 Mar 04 20:29	0°♄	
retrograde	6259 Dec 19 12:22	3°♄06'20		retrograde	6265 May 21 13:09	8°♄06'03	
asc. node	6260 Jan 09 12:34	2°♄22'22		opposition	6265 Jul 21 13:09	3°♄13'42 0°29'02	
	6260 Feb 02 05:17	30°♄♄		min. Earth dist.	6265 Jul 23 01:22	3°♄02'09 4.41271 AU	
min. Earth dist.	6260 Feb 15 11:56	28°♄14'43 4.07252 AU			6265 Aug 18 02:53	30°♄♄	
opposition	6260 Feb 17 02:09	28°♄01'43 0°04'45		direct	6265 Sep 22 03:57	28°♄12'59	
direct	6260 Apr 15 15:16	23°♄03'23			6265 Oct 27 04:44	0°♄	
	6260 Jun 23 15:22	0°♄			6266 Jan 21 12:36	15°♄	
evening set	6260 Aug 20 06:39	12°♄04'33		evening set	6266 Jan 25 14:19	15°♄53'45	
				max. Earth dist.	6266 Feb 05 01:15	18°♄13'04 6.35060 AU	
conjunction	6260 Sep 02 23:11	15°♄12'19 0°19'00					
minimum elong	6260 Sep 02 23:10	15°♄12'19 0°19'00		conjunction	6266 Feb 07 08:10	18°♄43'40 0°05'42	
max. Earth dist.	6260 Sep 05 05:59	15°♄43'41 6.15305 AU		minimum elong	6266 Feb 07 08:09	18°♄43'40 0°05'44	
morning rise	6260 Sep 16 16:05	18°♄19'55		behind sun begin	6266 Feb 07 00:32	18°♄39'26	
	6260 Nov 11 19:28	0°♄		behind sun end	6266 Feb 07 15:47	18°♄47'54	
retrograde	6261 Jan 20 22:45	6°♄59'47		morning rise	6266 Feb 20 00:45	21°♄33'10	
opposition	6261 Mar 21 18:56	1°♄56'57 0°48'18			6266 Apr 01 04:05	0°♄	
min. Earth dist.	6261 Mar 20 13:33	2°♄06'50 4.23545 AU		desc. node	6266 Apr 24 01:33	4°♄02'15	
	6261 Apr 05 16:47	30°♄♄		retrograde	6266 Jun 23 05:06	9°♄11'31	
direct	6261 May 20 15:26	26°♄56'20		opposition	6266 Aug 23 01:15	4°♄18'45 -0°13'22	
	6261 Jul 04 18:34	0°♄		min. Earth dist.	6266 Aug 24 16:33	4°♄06'10 4.27589 AU	
evening set	6261 Sep 24 02:14	15°♄10'24			6266 Oct 02 22:47	30°♄♄	
				direct	6266 Oct 23 21:06	29°♄19'45	
conjunction	6261 Oct 07 14:51	18°♄09'26 0°43'39			6266 Nov 13 17:31	0°♄	
minimum elong	6261 Oct 07 14:49	18°♄09'25 0°43'40		evening set	6267 Feb 26 07:34	17°♄40'17	
max. Earth dist.	6261 Oct 09 01:34	18°♄28'37 6.31477 AU		max. Earth dist.	6267 Mar 08 23:59	20°♄07'48 6.19443 AU	
morning rise	6261 Oct 21 02:14	21°♄07'36					
	6261 Dec 03 00:23	0°♄		conjunction	6267 Mar 11 01:29	20°♄36'22 -0°23'47	
retrograde	6262 Feb 21 02:06	8°♄40'45		minimum elong	6267 Mar 11 01:28	20°♄36'22 0°23'46	
opposition	6262 Apr 22 08:38	3°♄41'17 1°13'58		morning rise	6267 Mar 23 19:09	23°♄32'41	
min. Earth dist.	6262 Apr 21 18:42	3°♄45'53 4.38310 AU			6267 Apr 21 18:09	0°♄	
	6262 May 23 22:35	30°♄♄		retrograde	6267 Jul 28 08:47	12°♄20'21	
direct	6262 Jun 22 12:15	28°♄39'27		opposition	6267 Sep 26 20:51	7°♄25'49 -0°54'41	
	6262 Jul 22 11:36	0°♄		min. Earth dist.	6267 Sep 28 01:39	7°♄16'29 4.11117 AU	
	6262 Oct 20 18:47	15°♄		direct	6267 Nov 26 07:13	2°♄29'13	
evening set	6262 Oct 26 18:10	16°♄16'30		evening set	6268 Mar 31 01:27	21°♄38'24	
conjunction	6262 Nov 09 00:41	19°♄08'06 0°54'16		conjunction	6268 Apr 12 22:15	24°♄42'32 -0°46'50	
minimum elong	6262 Nov 09 00:40	19°♄08'06 0°54'17		minimum elong	6268 Apr 12 22:14	24°♄42'31 0°46'51	
max. Earth dist.	6262 Nov 09 05:45	19°♄10'50 6.43736 AU		max. Earth dist.	6268 Apr 11 17:48	24°♄25'31 6.03529 AU	
morning rise	6262 Nov 22 05:03	21°♄58'32		morning rise	6268 Apr 25 20:29	27°♄47'40	
	6262 Dec 31 15:29	0°♄			6268 May 05 04:37	0°♄	
retrograde	6263 Mar 23 01:44	8°♄48'28			6268 Jul 22 02:05	15°♄	
opposition	6263 May 22 16:19	3°♄52'30 1°17'59		retrograde	6268 Sep 02 23:20	17°♄49'40	
min. Earth dist.	6263 May 22 22:38	3°♄50'27 4.47346 AU			6268 Oct 16 06:38	15°♄♄	
	6263 Jun 26 00:32	30°♄♄		opposition	6268 Nov 01 23:37	12°♄52'10 -1°19'20	
direct	6263 Jul 23 22:21	28°♄50'24		min. Earth dist.	6268 Nov 02 07:24	12°♄49'36 3.97232 AU	
	6263 Aug 21 01:53	0°♄		direct	6268 Dec 30 23:11	7°♄57'38	
evening set	6263 Nov 26 19:00	16°♄07'56			6269 Mar 09 06:45	15°♄	
				evening set	6269 May 06 02:14	27°♄47'07	
conjunction	6263 Dec 09 19:42	18°♄55'17 0°49'49			6269 May 15 04:47	0°♄	
minimum elong	6263 Dec 09 19:43	18°♄55'18 0°49'52					
max. Earth dist.	6263 Dec 08 20:05	18°♄42'37 6.48887 AU		conjunction	6269 May 19 05:34	0°♄59'02 -0°53'29	

minimum elong	6269 May 19 05:34	0°♊59'03	0°53'30		6274 Dec 14 02:53	0°♈	
max. Earth dist.	6269 May 19 12:56	1°♊03'32	5.93031 AU	retrograde	6275 Mar 27 03:48	13°♈03'35	
morning rise	6269 Jun 01 11:14	4°♊12'25		opposition	6275 May 26 20:17	8°♈08'00	1°16'47
retrograde	6269 Oct 11 19:31	25°♊01'28		min. Earth dist.	6275 May 27 04:53	8°♈05'13	4.48116 AU
opposition	6269 Dec 10 08:54	20°♊00'23	-1°13'24	direct	6275 Jul 28 03:47	3°♈05'51	
min. Earth dist.	6269 Dec 09 16:05	20°♊06'03	3.91423 AU	evening set	6275 Dec 01 00:23	20°♈22'02	
direct	6270 Feb 06 08:56	15°♊06'16		max. Earth dist.	6275 Dec 12 21:35	22°♈54'40	6.48979 AU
	6270 May 22 04:32	0°♉					
evening set	6270 Jun 12 19:19	5°♉07'36		conjunction	6275 Dec 14 00:25	23°♈09'05	0°48'04
				minimum elong	6275 Dec 14 00:26	23°♈09'06	0°48'06
conjunction	6270 Jun 26 06:22	8°♉23'32	-0°38'51	morning rise	6275 Dec 26 21:57	25°♈54'59	
minimum elong	6270 Jun 26 06:23	8°♉23'33	0°38'52		6276 Jan 15 09:50	0°♉	
max. Earth dist.	6270 Jun 27 23:28	8°♉48'29	5.92473 AU	retrograde	6276 Apr 25 01:11	12°♉31'23	
morning rise	6270 Jul 09 20:20	11°♉40'53		opposition	6276 Jun 24 22:42	7°♉38'11	0°57'58
	6270 Oct 11 04:04	0°♊		min. Earth dist.	6276 Jun 26 01:34	7°♉29'35	4.47823 AU
retrograde	6270 Nov 18 17:54	2°♊21'59		direct	6276 Aug 26 17:37	2°♉36'30	
	6270 Dec 27 06:31	30°♊06'31		evening set	6276 Dec 30 06:44	19°♉57'26	
min. Earth dist.	6271 Jan 15 18:12	27°♉29'54	3.96260 AU	max. Earth dist.	6277 Jan 10 02:47	22°♉18'32	6.44505 AU
opposition	6271 Jan 17 05:14	27°♉17'58	-0°37'15				
direct	6271 Mar 16 02:30	22°♉22'02		conjunction	6277 Jan 12 02:39	22°♉44'35	0°29'00
	6271 May 26 15:17	0°♊		minimum elong	6277 Jan 12 02:40	22°♉44'36	0°29'02
evening set	6271 Jul 20 17:43	12°♊00'24		morning rise	6277 Jan 24 20:35	25°♉30'54	
	6271 Aug 02 10:05	15°♊			6277 Feb 14 23:51	0°♊	
				retrograde	6277 May 26 00:14	12°♊28'39	
conjunction	6271 Aug 03 10:01	15°♊14'08	-0°08'56	opposition	6277 Jul 25 23:08	7°♊36'17	0°23'30
minimum elong	6271 Aug 03 10:01	15°♊14'09	0°08'57	min. Earth dist.	6277 Jul 27 12:53	7°♊24'14	4.39419 AU
behind sun begin	6271 Aug 03 02:53	15°♊09'57		direct	6277 Sep 26 11:57	2°♊35'40	
behind sun end	6271 Aug 03 17:10	15°♊18'21			6278 Jan 05 01:29	15°♊	
max. Earth dist.	6271 Aug 05 20:57	15°♊48'58	6.02158 AU	evening set	6278 Jan 29 22:31	20°♊22'03	
morning rise	6271 Aug 17 04:04	18°♊28'30		max. Earth dist.	6278 Feb 09 09:54	22°♊42'17	6.32750 AU
	6271 Oct 09 08:16	0°♋					
asc. node	6271 Nov 18 16:30	6°♋10'15		conjunction	6278 Feb 11 16:25	23°♊12'50	0°01'33
retrograde	6271 Dec 24 10:39	8°♋12'03		minimum elong	6278 Feb 11 16:26	23°♊12'50	0°01'34
min. Earth dist.	6272 Feb 20 11:27	3°♋20'10	4.09600 AU	behind sun begin	6278 Feb 11 08:27	23°♊08'24	
opposition	6272 Feb 22 00:39	3°♋07'31	0°11'38	behind sun end	6278 Feb 12 00:24	23°♊17'17	
	6272 Mar 18 00:41	30°♋06'31		morning rise	6278 Feb 24 08:55	26°♊03'15	
direct	6272 Apr 20 19:02	28°♋08'50		desc. node	6278 Mar 03 19:40	27°♊42'20	
	6272 May 24 18:01	0°♋			6278 Mar 14 08:34	0°♋	
evening set	6272 Aug 25 08:13	17°♋02'26		retrograde	6278 Jun 27 23:50	13°♋51'20	
				opposition	6278 Aug 27 19:14	8°♋58'25	-0°19'33
conjunction	6272 Sep 08 00:26	20°♋08'54	0°23'09	min. Earth dist.	6278 Aug 29 09:38	8°♋46'06	4.24978 AU
minimum elong	6272 Sep 08 00:25	20°♋08'53	0°23'09	direct	6278 Oct 28 09:50	3°♋59'44	
max. Earth dist.	6272 Sep 10 06:41	20°♋39'45	6.17879 AU	evening set	6279 Mar 02 23:03	22°♋28'12	
morning rise	6272 Sep 21 16:39	23°♋15'02		max. Earth dist.	6279 Mar 13 17:00	24°♋57'33	6.16742 AU
	6272 Oct 22 16:31	0°♌					
retrograde	6273 Jan 25 09:59	11°♌43'33		conjunction	6279 Mar 15 17:06	25°♋25'30	-0°27'39
min. Earth dist.	6273 Mar 25 03:49	6°♌50'42	4.26108 AU	minimum elong	6279 Mar 15 17:05	25°♋25'29	0°27'38
opposition	6273 Mar 26 08:21	6°♌41'07	0°53'07	morning rise	6279 Mar 28 11:22	28°♋23'10	
direct	6273 May 25 08:40	1°♌40'17			6279 Apr 04 11:44	0°♌	
evening set	6273 Sep 28 19:14	19°♌47'15		retrograde	6279 Aug 02 14:37	17°♌22'54	
				opposition	6279 Oct 02 00:28	12°♌27'58	-0°59'34
conjunction	6273 Oct 12 06:53	22°♌44'56	0°46'00	min. Earth dist.	6279 Oct 03 02:48	12°♌19'24	4.08548 AU
minimum elong	6273 Oct 12 06:51	22°♌44'56	0°46'02	direct	6279 Dec 01 05:48	7°♌31'40	
max. Earth dist.	6273 Oct 13 12:34	23°♌01'16	6.33816 AU	evening set	6280 Apr 05 01:38	26°♌48'40	
morning rise	6273 Oct 25 17:19	25°♌41'44					
	6273 Nov 14 20:10	0°♍		conjunction	6280 Apr 17 23:22	29°♌54'09	-0°48'57
retrograde	6274 Feb 25 08:51	13°♍06'19		minimum elong	6280 Apr 17 23:21	29°♌54'08	0°48'58
opposition	6274 Apr 26 15:47	8°♍07'21	1°15'46	max. Earth dist.	6280 Apr 17 00:41	29°♌40'31	6.01349 AU
min. Earth dist.	6274 Apr 26 05:34	8°♍10'43	4.40252 AU		6280 Apr 18 09:07	0°♍	
direct	6274 Jun 27 00:48	3°♍05'23		morning rise	6280 Apr 30 22:26	3°♍00'40	
	6274 Oct 04 01:51	15°♍			6280 Jun 24 06:23	15°♍	
evening set	6274 Oct 31 03:40	20°♍37'40		retrograde	6280 Sep 08 12:39	23°♍12'30	
				opposition	6280 Nov 07 10:38	18°♍14'31	-1°20'30
conjunction	6274 Nov 13 09:21	23°♍28'24	0°54'28	min. Earth dist.	6280 Nov 07 14:46	18°♍13'09	3.95702 AU
minimum elong	6274 Nov 13 09:21	23°♍28'24	0°54'31		6280 Dec 04 05:55	15°♍	
max. Earth dist.	6274 Nov 13 10:18	23°♍28'54	6.45124 AU	direct	6281 Jan 05 05:43	13°♍20'12	
morning rise	6274 Nov 26 12:43	26°♍17'55			6281 Feb 05 22:37	15°♍	

	6281 Apr 27 23:33	0°♂	evening set	6286 Nov 04 13:06	24°♂57'48	
evening set	6281 May 11 10:10	3°♂13'36				
conjunction	6281 May 24 14:26	6°♂26'22 -0°52'37	conjunction	6286 Nov 17 17:50	27°♂47'48 0°54'25	
minimum elong	6281 May 24 14:27	6°♂26'22 0°52'40	minimum elong	6286 Nov 17 17:50	27°♂47'48 0°54'27	
max. Earth dist.	6281 May 25 02:28	6°♂33'43 5.92286 AU	max. Earth dist.	6286 Nov 17 13:19	27°♂45'22 6.46133 AU	
morning rise	6281 Jun 06 21:29	9°♂40'41		6286 Nov 27 23:56	0°♂	
	6281 Sep 29 07:25	0°♂	morning rise	6286 Nov 30 20:25	0°♂36'37	
retrograde	6281 Oct 17 06:49	0°♂31'54	retrograde	6287 Mar 31 09:18	17°♂19'23	
	6281 Nov 04 05:19	30°♂♂	opposition	6287 May 31 01:13	12°♂24'17 1°15'14	
opposition	6281 Dec 15 20:43	25°♂30'14 -1°09'44	min. Earth dist.	6287 May 31 13:40	12°♂20'15 4.48505 AU	
min. Earth dist.	6281 Dec 14 23:29	25°♂37'23 3.91572 AU	direct	6287 Aug 01 11:54	7°♂22'11	
direct	6282 Feb 11 18:29	20°♂35'55	evening set	6287 Dec 05 06:28	24°♂38'07	
	6282 May 02 15:05	0°♂	max. Earth dist.	6287 Dec 16 23:11	27°♂08'32 6.48713 AU	
evening set	6282 Jun 18 05:57	10°♂35'15				
conjunction	6282 Jul 01 18:00	13°♂51'09 -0°35'11	conjunction	6287 Dec 18 05:55	27°♂25'03 0°46'02	
minimum elong	6282 Jul 01 18:02	13°♂51'10 0°35'14	minimum elong	6287 Dec 18 05:56	27°♂25'04 0°46'04	
max. Earth dist.	6282 Jul 03 15:41	14°♂18'49 5.93484 AU		6287 Dec 30 06:35	0°♂	
morning rise	6282 Jul 15 08:43	17°♂08'20	morning rise	6287 Dec 31 02:53	0°♂10'51	
	6282 Sep 11 21:13	0°♂	retrograde	6288 Apr 29 07:34	16°♂49'01	
retrograde	6282 Nov 23 23:50	7°♂42'40	opposition	6288 Jun 29 05:37	11°♂56'01 0°53'53	
min. Earth dist.	6283 Jan 20 23:29	2°♂50'28 3.97979 AU	min. Earth dist.	6288 Jun 30 09:59	11°♂46'57 4.46930 AU	
opposition	6283 Jan 22 11:02	2°♂38'21 -0°30'30	direct	6288 Aug 30 23:22	6°♂54'28	
	6283 Feb 11 23:34	30°♂♂	evening set	6289 Jan 03 13:21	24°♂18'30	
direct	6283 Mar 21 11:34	27°♂41'59	max. Earth dist.	6289 Jan 14 08:24	26°♂39'30 6.43053 AU	
	6283 Apr 27 21:51	0°♂				
	6283 Jul 16 10:37	15°♂	conjunction	6289 Jan 16 08:58	27°♂06'03 0°25'28	
evening set	6283 Jul 26 00:49	17°♂13'47	minimum elong	6289 Jan 16 08:59	27°♂06'04 0°25'30	
			morning rise	6289 Jan 29 02:28	29°♂52'49	
conjunction	6283 Aug 08 17:26	20°♂26'36 -0°04'11		6289 Jan 29 15:43	0°♂	
minimum elong	6283 Aug 08 17:27	20°♂26'36 0°04'12		6289 Apr 24 13:12	15°♂	
behind sun begin	6283 Aug 08 09:11	20°♂21'47	retrograde	6289 May 30 13:14	16°♂56'40	
behind sun end	6283 Aug 09 01:42	20°♂31'26		6289 Jul 05 18:22	15°♂	
max. Earth dist.	6283 Aug 11 06:04	21°♂02'12 6.04399 AU	opposition	6289 Jul 30 11:31	12°♂04'25 0°17'40	
morning rise	6283 Aug 22 11:30	23°♂39'53	min. Earth dist.	6289 Aug 01 02:20	11°♂52'02 4.37489 AU	
	6283 Sep 19 12:12	0°♂	direct	6289 Sep 30 21:47	7°♂04'07	
asc. node	6283 Sep 27 15:01	1°♂43'44		6289 Dec 17 08:43	15°♂	
retrograde	6283 Dec 29 05:50	13°♂12'03	desc. node	6290 Jan 10 14:30	19°♂46'19	
min. Earth dist.	6284 Feb 25 07:52	8°♂20'22 4.12115 AU	evening set	6290 Feb 03 09:14	24°♂56'21	
opposition	6284 Feb 26 21:07	8°♂07'44 0°18'21	max. Earth dist.	6290 Feb 13 19:14	27°♂16'37 6.30490 AU	
direct	6284 Apr 25 18:41	3°♂08'42				
evening set	6284 Aug 30 07:50	21°♂54'35	conjunction	6290 Feb 16 02:56	27°♂48'00 -0°02'48	
			minimum elong	6290 Feb 16 02:54	27°♂47'59 0°02'47	
conjunction	6284 Sep 12 23:25	24°♂59'39 0°27'07	behind sun begin	6290 Feb 15 18:57	27°♂43'31	
minimum elong	6284 Sep 12 23:23	24°♂59'39 0°27'07	behind sun end	6290 Feb 16 10:52	27°♂52'26	
max. Earth dist.	6284 Sep 15 01:28	25°♂27'58 6.20440 AU		6290 Feb 25 21:27	0°♂	
morning rise	6284 Sep 26 15:04	28°♂04'22	morning rise	6290 Feb 28 19:39	0°♂39'23	
	6284 Oct 05 06:45	0°♂	retrograde	6290 Jul 02 22:19	18°♂37'15	
retrograde	6285 Jan 29 21:02	16°♂22'16	opposition	6290 Sep 01 15:52	13°♂44'09 -0°25'48	
opposition	6285 Mar 30 20:28	11°♂20'16 0°57'34	min. Earth dist.	6290 Sep 03 04:52	13°♂32'15 4.22546 AU	
min. Earth dist.	6285 Mar 29 18:59	11°♂28'49 4.28497 AU	direct	6290 Nov 02 01:54	8°♂45'51	
direct	6285 May 30 02:16	6°♂19'13	evening set	6291 Mar 07 16:14	27°♂21'33	
evening set	6285 Oct 03 10:41	24°♂19'57	max. Earth dist.	6291 Mar 18 14:52	29°♂54'22 6.14372 AU	
				6291 Mar 19 00:31	0°♂	
conjunction	6285 Oct 16 21:40	27°♂16'29 0°48'06	conjunction	6291 Mar 20 10:47	0°♂20'01 -0°31'25	
minimum elong	6285 Oct 16 21:39	27°♂16'29 0°48'07	minimum elong	6291 Mar 20 10:45	0°♂20'00 0°31'25	
max. Earth dist.	6285 Oct 18 00:27	27°♂31'09 6.35861 AU	morning rise	6291 Apr 02 05:23	3°♂18'53	
	6285 Oct 29 08:50	0°♂	retrograde	6291 Aug 07 21:26	22°♂29'28	
morning rise	6285 Oct 30 06:58	0°♂12'02	opposition	6291 Oct 07 05:38	17°♂34'14 -1°04'05	
	6286 Jan 20 00:18	15°♂	min. Earth dist.	6291 Oct 08 05:12	17°♂26'34 4.06472 AU	
retrograde	6286 Mar 01 13:09	17°♂29'20	direct	6291 Dec 06 05:44	12°♂38'24	
	6286 Apr 11 02:16	15°♂♂		6292 Apr 01 14:33	0°♂	
opposition	6286 Apr 30 22:12	12°♂30'55 1°17'10	evening set	6292 Apr 10 02:44	2°♂01'15	
min. Earth dist.	6286 Apr 30 14:00	12°♂33'36 4.41833 AU	max. Earth dist.	6292 Apr 22 06:09	4°♂56'22 5.99761 AU	
direct	6286 Jul 01 09:44	7°♂28'57				
	6286 Sep 15 07:27	15°♂	conjunction	6292 Apr 23 01:02	5°♂07'45 -0°50'43	
			minimum elong	6292 Apr 23 01:01	5°♂07'44 0°50'44	

morning rise	6292 May 06 01:10	8°♄15'26	min. Earth dist.	6298 May 04 22:30	16°♄51'23	4.42960 AU
	6292 Jun 04 01:05	15°♄		6298 May 19 10:43	15°♄♄	
retrograde	6292 Sep 13 22:52	28°♄34'34	direct	6298 Jul 05 18:47	11°♄47'50	
opposition	6292 Nov 12 20:35	23°♄36'02 -1°21'00		6298 Aug 22 08:21	15°♄	
min. Earth dist.	6292 Nov 12 19:55	23°♄36'15 3.94799 AU	evening set	6298 Nov 08 20:39	29°♄14'35	
direct	6293 Jan 10 11:45	18°♄41'51		6298 Nov 12 09:39	0°♄	
	6293 Apr 09 14:55	0°♄				
evening set	6293 May 16 16:47	8°♄36'53	conjunction	6298 Nov 22 00:48	2°♄04'05	0°54'04
			minimum elong	6298 Nov 22 00:48	2°♄04'06	0°54'07
conjunction	6293 May 29 22:11	11°♄50'13 -0°51'22	max. Earth dist.	6298 Nov 21 17:31	2°♄00'11	6.46696 AU
minimum elong	6293 May 29 22:12	11°♄50'13 0°51'25	morning rise	6298 Dec 05 02:25	4°♄52'22	
max. Earth dist.	6293 May 30 16:42	12°♄01'31 5.92167 AU	retrograde	6299 Apr 04 11:42	21°♄33'38	
morning rise	6293 Jun 12 06:10	15°♄05'02	opposition	6299 Jun 04 05:26	16°♄38'52	1°13'19
	6293 Aug 20 11:08	0°♄	min. Earth dist.	6299 Jun 04 19:28	16°♄34'21	4.48508 AU
retrograde	6293 Oct 22 16:08	5°♄55'43	direct	6299 Aug 05 16:43	11°♄36'50	
min. Earth dist.	6293 Dec 20 06:06	1°♄01'22 3.92252 AU	evening set	6299 Dec 09 12:22	28°♄53'33	
opposition	6293 Dec 21 05:16	0°♄53'33 -1°05'34		6299 Dec 14 16:30	0°♄	
	6293 Dec 27 20:38	30°♄♄	max. Earth dist.	6299 Dec 21 01:17	1°♄22'12	6.48161 AU
direct	6294 Feb 17 03:18	25°♄59'02				
	6294 Apr 08 01:04	0°♄	conjunction	6299 Dec 22 11:07	1°♄40'26	0°43'47
evening set	6294 Jun 23 13:08	15°♄54'36	minimum elong	6299 Dec 22 11:09	1°♄40'27	0°43'49
			morning rise	6300 Jan 04 07:34	4°♄26'16	
conjunction	6294 Jul 07 02:03	19°♄10'14 -0°31'22	retrograde	6300 May 04 15:33	21°♄06'52	
minimum elong	6294 Jul 07 02:04	19°♄10'15 0°31'25	opposition	6300 Jul 04 12:51	16°♄14'04	0°49'31
max. Earth dist.	6294 Jul 09 03:36	19°♄40'06 5.94875 AU	min. Earth dist.	6300 Jul 05 19:43	16°♄04'12	4.45866 AU
morning rise	6294 Jul 20 17:29	22°♄27'02	direct	6300 Sep 05 07:11	11°♄12'39	
	6294 Aug 22 11:11	0°♄	evening set	6301 Jan 08 20:09	28°♄39'58	
retrograde	6294 Nov 29 00:35	12°♄53'09		6301 Jan 14 22:54	0°♄	
min. Earth dist.	6295 Jan 25 23:20	8°♄01'16 3.99923 AU	max. Earth dist.	6301 Jan 19 12:35	1°♄00'05	6.41546 AU
opposition	6295 Jan 27 12:14	7°♄48'43 -0°23'46				
direct	6295 Mar 26 14:26	2°♄51'59	conjunction	6301 Jan 21 15:24	1°♄27'58	0°21'48
	6295 Jun 28 19:45	15°♄	minimum elong	6301 Jan 21 15:25	1°♄27'58	0°21'50
evening set	6295 Jul 31 03:35	22°♄16'49	morning rise	6301 Feb 03 08:46	4°♄15'14	
asc. node	6295 Aug 08 00:29	24°♄06'57		6301 Mar 29 01:31	15°♄	
			retrograde	6301 Jun 05 02:20	21°♄25'15	
conjunction	6295 Aug 13 20:08	25°♄28'34 0°00'30	opposition	6301 Aug 05 00:28	16°♄32'53	0°11'44
minimum elong	6295 Aug 13 20:09	25°♄28'34 0°00'29	min. Earth dist.	6301 Aug 06 14:42	16°♄20'40	4.35634 AU
behind sun begin	6295 Aug 13 11:46	25°♄23'42		6301 Aug 17 08:16	15°♄	
behind sun end	6295 Aug 14 04:32	25°♄33'27	direct	6301 Oct 06 07:29	11°♄32'48	
max. Earth dist.	6295 Aug 16 06:39	26°♄02'45 6.06685 AU	desc. node	6301 Nov 20 23:22	14°♄32'52	
morning rise	6295 Aug 27 14:15	28°♄40'44		6301 Nov 24 11:42	15°♄	
	6295 Sep 02 07:48	0°♄	evening set	6302 Feb 08 19:42	29°♄30'15	
retrograde	6296 Jan 02 20:20	18°♄01'58		6302 Feb 11 00:43	0°♄	
min. Earth dist.	6296 Mar 01 01:39	13°♄09'51 4.14504 AU	max. Earth dist.	6302 Feb 19 08:03	1°♄52'28	6.28426 AU
opposition	6296 Mar 02 13:10	12°♄57'48 0°24'40				
direct	6296 Apr 30 15:19	7°♄58'24	conjunction	6302 Feb 21 13:25	2°♄22'40	-0°07'01
evening set	6296 Sep 04 03:16	26°♄37'21	minimum elong	6302 Feb 21 13:24	2°♄22'40	0°07'00
			behind sun begin	6302 Feb 21 06:01	2°♄18'30	
conjunction	6296 Sep 17 18:32	29°♄41'14 0°30'46	behind sun end	6302 Feb 21 20:48	2°♄26'50	
minimum elong	6296 Sep 17 18:30	29°♄41'13 0°30'47	morning rise	6302 Mar 06 06:05	5°♄14'54	
	6296 Sep 19 03:53	0°♄	retrograde	6302 Jul 08 19:43	23°♄21'41	
max. Earth dist.	6296 Sep 19 18:31	0°♄08'15 6.22745 AU	opposition	6302 Sep 07 12:14	18°♄28'21	-0°31'51
morning rise	6296 Oct 01 09:18	2°♄44'36	min. Earth dist.	6302 Sep 09 00:27	18°♄16'42	4.20399 AU
retrograde	6297 Feb 03 04:23	20°♄53'02	direct	6302 Nov 07 18:27	13°♄30'24	
min. Earth dist.	6297 Apr 03 05:42	15°♄59'21 4.30538 AU		6303 Mar 03 19:48	0°♄	
opposition	6297 Apr 04 05:04	15°♄51'33 1°01'32	evening set	6303 Mar 13 08:54	2°♄12'09	
direct	6297 Jun 03 14:34	10°♄50'20	max. Earth dist.	6303 Mar 24 09:11	4°♄46'42	6.12300 AU
evening set	6297 Oct 07 23:16	28°♄46'08				
	6297 Oct 13 15:05	0°♄	conjunction	6303 Mar 26 03:35	5°♄11'35	-0°34'55
			minimum elong	6303 Mar 26 03:34	5°♄11'34	0°34'56
conjunction	6297 Oct 21 09:18	1°♄41'40 0°49'52	morning rise	6303 Apr 07 22:52	8°♄11'35	
minimum elong	6297 Oct 21 09:17	1°♄41'40 0°49'53	retrograde	6303 Aug 14 01:01	27°♄31'48	
max. Earth dist.	6297 Oct 22 06:07	1°♄53'02 6.37482 AU	opposition	6303 Oct 13 08:58	22°♄36'08	-1°08'05
morning rise	6297 Nov 03 17:52	4°♄36'13	min. Earth dist.	6303 Oct 14 04:52	22°♄29'38	4.04646 AU
	6297 Dec 25 18:23	15°♄	direct	6303 Dec 12 04:09	17°♄40'33	
retrograde	6298 Mar 05 17:44	21°♄47'51		6304 Mar 16 05:54	0°♄	
opposition	6298 May 05 03:01	16°♄49'54 1°18'09	evening set	6304 Apr 16 02:09	7°♄08'33	






























































































































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minimum elong	6304 Apr 29 01:20	10°♏16'04	0°52'05	morning rise	6309 Nov 09 06:31	9°♎05'34	
max. Earth dist.	6304 Apr 28 12:16	10°♏08'10	5.98352 AU		6309 Dec 07 11:22	15°♎	
morning rise	6304 May 12 02:18	13°♏24'49		retrograde	6310 Mar 10 22:56	26°♎11'44	
	6304 May 18 17:39	15°♏		opposition	6310 May 10 09:48	21°♎14'22	1°18'44
	6304 Aug 01 01:46	0°♐		min. Earth dist.	6310 May 10 07:12	21°♎15'13	4.44139 AU
retrograde	6304 Sep 20 09:01	3°♐50'36		direct	6310 Jul 11 04:52	16°♎12'24	
	6304 Nov 10 12:47	30°♏8			6310 Oct 28 01:07	0°♏	
opposition	6304 Nov 19 04:19	28°♏51'35	-1°20'49	evening set	6310 Nov 14 06:17	3°♏36'40	
min. Earth dist.	6304 Nov 19 01:22	28°♏52'34	3.93958 AU				
direct	6305 Jan 16 16:52	23°♏57'29		conjunction	6310 Nov 27 09:27	6°♏25'33	0°53'27
	6305 Mar 20 03:54	0°♐		minimum elong	6310 Nov 27 09:27	6°♏25'33	0°53'29
evening set	6305 May 22 21:33	13°♐54'16		max. Earth dist.	6310 Nov 26 21:35	6°♏19'11	6.47460 AU
				morning rise	6310 Dec 10 10:23	9°♏13'16	
conjunction	6305 Jun 05 04:01	17°♐08'13	-0°49'42	retrograde	6311 Apr 09 17:31	25°♏52'18	
minimum elong	6305 Jun 05 04:03	17°♐08'14	0°49'44	opposition	6311 Jun 09 11:33	20°♏57'54	1°11'01
max. Earth dist.	6305 Jun 06 03:04	17°♐22'16	5.91969 AU	min. Earth dist.	6311 Jun 10 04:18	20°♏52'30	4.48846 AU
morning rise	6305 Jun 18 13:14	20°♐23'41		direct	6311 Aug 11 01:42	15°♏55'58	
	6305 Jul 30 06:49	0°♑			6311 Nov 29 14:11	0°♑	
retrograde	6305 Oct 28 22:55	11°♑14'08		evening set	6311 Dec 14 18:44	3°♑12'01	
min. Earth dist.	6305 Dec 26 09:25	6°♑20'26	3.92744 AU	max. Earth dist.	6311 Dec 26 05:42	5°♑39'43	6.48065 AU
opposition	6305 Dec 27 11:35	6°♑11'36	-1°00'56				
direct	6306 Feb 23 08:01	1°♑16'54		conjunction	6311 Dec 27 16:59	5°♑58'44	0°41'20
evening set	6306 Jun 29 19:30	21°♑10'01		minimum elong	6311 Dec 27 17:00	5°♑58'45	0°41'22
				morning rise	6312 Jan 09 12:42	8°♑44'21	
conjunction	6306 Jul 13 09:06	24°♑25'28	-0°27'20	retrograde	6312 May 08 21:08	25°♑25'59	
minimum elong	6306 Jul 13 09:07	24°♑25'29	0°27'22	opposition	6312 Jul 08 20:25	20°♑33'18	0°44'58
max. Earth dist.	6306 Jul 15 11:45	24°♑55'54	5.95988 AU	min. Earth dist.	6312 Jul 10 03:28	20°♑23'23	4.45349 AU
morning rise	6306 Jul 27 01:21	27°♑42'04		direct	6312 Sep 09 13:56	15°♑32'05	
	6306 Aug 05 18:42	0°♒			6312 Dec 30 01:58	0°♒	
	6306 Oct 22 01:14	15°♒		evening set	6313 Jan 13 02:07	3°♒00'40	
retrograde	6306 Dec 05 00:12	18°♒01'23		max. Earth dist.	6313 Jan 23 17:40	5°♒20'39	6.40646 AU
	6307 Jan 17 24:00	15°♒0					
min. Earth dist.	6307 Jan 31 23:13	13°♒09'30	4.01512 AU	conjunction	6313 Jan 25 20:52	5°♒48'48	0°18'08
opposition	6307 Feb 02 12:24	12°♒56'49	-0°16'54	minimum elong	6313 Jan 25 20:53	5°♒48'49	0°18'09
direct	6307 Apr 01 17:14	7°♒59'41		morning rise	6313 Feb 07 13:52	8°♒36'17	
	6307 Jun 09 09:19	15°♒			6313 Mar 09 19:54	15°♒	
asc. node	6307 Jun 18 21:06	16°♒47'17		retrograde	6313 Jun 09 14:01	25°♒50'33	
evening set	6307 Aug 06 06:28	27°♒19'20		opposition	6313 Aug 09 11:52	20°♒58'08	0°05'55
	6307 Aug 17 19:15	0°♓		min. Earth dist.	6313 Aug 11 03:21	20°♒45'32	4.34377 AU
				desc. node	6313 Oct 02 17:08	16°♒04'13	
conjunction	6307 Aug 19 23:22	0°♓30'19	0°05'09	direct	6313 Oct 10 18:17	15°♒58'17	
minimum elong	6307 Aug 19 23:22	0°♓30'19	0°05'08		6314 Jan 26 03:10	0°♓	
behind sun begin	6307 Aug 19 15:15	0°♓25'37		evening set	6314 Feb 13 03:46	3°♓58'55	
behind sun end	6307 Aug 20 07:29	0°♓35'01		max. Earth dist.	6314 Feb 23 15:16	6°♓21'12	6.26901 AU
max. Earth dist.	6307 Aug 22 10:28	1°♓04'41	6.08616 AU				
morning rise	6307 Sep 02 17:12	3°♓41'29		conjunction	6314 Feb 25 21:18	6°♓51'52	-0°11'00
retrograde	6308 Jan 08 12:57	22°♓53'13		minimum elong	6314 Feb 25 21:18	6°♓51'52	0°10'59
min. Earth dist.	6308 Mar 06 19:42	18°♓00'57	4.16566 AU	behind sun begin	6314 Feb 25 15:14	6°♓48'27	
opposition	6308 Mar 08 05:52	17°♓49'24	0°30'50	behind sun end	6314 Feb 26 03:22	6°♓55'18	
direct	6308 May 06 11:42	12°♓49'45		morning rise	6314 Mar 10 14:08	9°♓44'45	
	6308 Sep 03 18:26	0°♔		retrograde	6314 Jul 13 11:50	27°♓58'45	
evening set	6308 Sep 10 00:06	1°♔23'04		opposition	6314 Sep 12 05:03	23°♓05'06	-0°37'25
				min. Earth dist.	6314 Sep 13 15:21	22°♓54'03	4.18697 AU
conjunction	6308 Sep 23 14:43	4°♔25'51	0°34'16	direct	6314 Nov 12 07:05	18°♓07'22	
minimum elong	6308 Sep 23 14:41	4°♔25'50	0°34'16		6315 Feb 15 06:04	0°♕	
max. Earth dist.	6308 Sep 25 10:51	4°♔50'34	6.24761 AU	evening set	6315 Mar 17 21:31	6°♕53'50	
morning rise	6308 Oct 07 04:56	7°♔28'04		max. Earth dist.	6315 Mar 29 01:37	9°♕31'10	6.10562 AU
retrograde	6309 Feb 08 13:19	25°♔28'13					
opposition	6309 Apr 09 15:34	20°♔27'13	1°05'11	conjunction	6315 Mar 30 16:36	9°♕54'07	-0°38'01
min. Earth dist.	6309 Apr 08 18:24	20°♔34'16	4.32366 AU	minimum elong	6315 Mar 30 16:35	9°♕54'07	0°38'02
direct	6309 Jun 09 05:13	15°♔25'53		morning rise	6315 Apr 12 12:15	12°♕55'03	
	6309 Sep 28 04:02	0°♖			6315 Jul 10 13:03	0°♖	
evening set	6309 Oct 13 13:41	3°♖17'24		retrograde	6315 Aug 19 02:45	2°♖23'56	
					6315 Sep 27 22:07	30°♖	
conjunction	6309 Oct 26 23:04	6°♖12'02	0°51'23	opposition	6315 Oct 18 07:59	27°♖27'51	-1°11'23
minimum elong	6309 Oct 26 23:03	6°♖12'02	0°51'24	min. Earth dist.	6315 Oct 19 02:46	27°♖21'42	4.03009 AU

direct	6315 Dec 16 23:54	22° Υ 32'27		direct	6321 Jun 13 20:57	20° Ω 00'45	
	6316 Feb 26 02:41	0° \mathcal{B}			6321 Sep 10 08:24	0° \mathcal{M}	
evening set	6316 Apr 20 21:15	12° \mathcal{B} 05'10		evening set	6321 Oct 18 04:03	7° \mathcal{M} 47'48	
	6316 May 02 22:37	15° \mathcal{B}					
conjunction	6316 May 03 21:13	15° \mathcal{B} 13'42	-0°52'58	conjunction	6321 Oct 31 12:29	10° \mathcal{M} 41'28	0°52'32
minimum elong	6316 May 03 21:13	15° \mathcal{B} 13'41	0°53'00	minimum elong	6321 Oct 31 12:29	10° \mathcal{M} 41'28	0°52'35
max. Earth dist.	6316 May 03 10:54	15° \mathcal{B} 07'27	5.96965 AU	max. Earth dist.	6321 Nov 01 02:55	10° \mathcal{M} 49'18	6.40528 AU
morning rise	6316 May 16 23:15	18° \mathcal{B} 23'32		morning rise	6321 Nov 13 19:06	13° \mathcal{M} 34'01	
	6316 Jul 07 19:05	0° \mathcal{H}			6321 Nov 20 11:27	15° \mathcal{M}	
retrograde	6316 Sep 25 12:26	8° \mathcal{H} 55'51		retrograde	6322 Feb 24 01:03	0° \mathcal{X}	
opposition	6316 Nov 24 07:02	3° \mathcal{H} 56'23	-1°20'03		6322 Mar 15 04:09	0° \mathcal{X} 34'38	
min. Earth dist.	6316 Nov 24 00:41	3° \mathcal{H} 58'30	3.92995 AU		6322 Apr 03 06:06	30° \mathcal{R} \mathcal{M}	
	6316 Dec 28 18:09	30° \mathcal{R} \mathcal{B}		opposition	6322 May 14 16:46	25° \mathcal{M} 37'36	1°18'49
direct	6317 Jan 21 14:50	29° \mathcal{B} 02'18		min. Earth dist.	6322 May 14 16:28	25° \mathcal{M} 37'42	4.45295 AU
	6317 Feb 14 11:38	0° \mathcal{H}		direct	6322 Jul 15 15:13	20° \mathcal{M} 35'30	
evening set	6317 May 27 22:45	19° \mathcal{H} 01'49		evening set	6322 Oct 10 08:07	0° \mathcal{X}	
					6322 Nov 18 15:08	7° \mathcal{X} 57'03	
conjunction	6317 Jun 10 06:15	22° \mathcal{H} 16'29	-0°47'44	conjunction	6322 Dec 01 17:37	10° \mathcal{X} 45'22	0°52'30
minimum elong	6317 Jun 10 06:17	22° \mathcal{H} 16'30	0°47'47	minimum elong	6322 Dec 01 17:37	10° \mathcal{X} 45'22	0°52'32
max. Earth dist.	6317 Jun 11 08:04	22° \mathcal{H} 32'15	5.91522 AU	max. Earth dist.	6322 Dec 01 03:41	10° \mathcal{X} 37'53	6.48152 AU
morning rise	6317 Jun 23 16:41	25° \mathcal{H} 32'42		morning rise	6322 Dec 14 17:31	13° \mathcal{X} 32'27	
	6317 Jul 12 09:24	0° \mathcal{G}			6323 Apr 03 20:03	0° \mathcal{Z}	
retrograde	6317 Nov 03 02:17	16° \mathcal{G} 24'05		retrograde	6323 Apr 13 21:35	0° \mathcal{Z} 09'32	
min. Earth dist.	6317 Dec 31 10:14	11° \mathcal{G} 30'36	3.92862 AU		6323 Apr 23 23:21	30° \mathcal{R} \mathcal{X}	
opposition	6318 Jan 01 14:06	11° \mathcal{G} 21'08	-0°56'03	opposition	6323 Jun 13 17:31	25° \mathcal{X} 15'26	1°08'17
direct	6318 Feb 28 10:31	6° \mathcal{G} 26'08		min. Earth dist.	6323 Jun 14 12:03	25° \mathcal{X} 09'29	4.49010 AU
evening set	6318 Jul 04 23:11	26° \mathcal{G} 18'33		direct	6323 Aug 15 09:18	20° \mathcal{X} 13'35	
					6323 Nov 12 07:11	0° \mathcal{Z}	
conjunction	6318 Jul 18 13:50	29° \mathcal{G} 34'06	-0°23'14	evening set	6323 Dec 19 01:10	7° \mathcal{Z} 29'33	
minimum elong	6318 Jul 18 13:51	29° \mathcal{G} 34'07	0°23'16	max. Earth dist.	6323 Dec 30 07:19	9° \mathcal{Z} 54'56	6.47657 AU
	6318 Jul 20 09:01	0° \mathcal{Q}					
max. Earth dist.	6318 Jul 20 20:04	0° \mathcal{Q} 06'38	5.96678 AU	conjunction	6323 Dec 31 22:37	10° \mathcal{Z} 16'09	0°38'35
morning rise	6318 Aug 01 06:39	2° \mathcal{Q} 50'39		minimum elong	6323 Dec 31 22:38	10° \mathcal{Z} 16'09	0°38'38
	6318 Sep 25 18:28	15° \mathcal{Q}		morning rise	6324 Jan 13 17:55	13° \mathcal{Z} 01'45	
retrograde	6318 Dec 09 23:48	23° \mathcal{Q} 04'50		retrograde	6324 May 13 06:05	29° \mathcal{Z} 45'37	
min. Earth dist.	6319 Feb 05 21:32	18° \mathcal{Q} 12'55	4.02685 AU	opposition	6324 Jul 13 04:47	24° \mathcal{Z} 53'04	0°40'03
opposition	6319 Feb 07 10:48	18° \mathcal{Q} 00'13	-0°10'10	min. Earth dist.	6324 Jul 14 14:28	24° \mathcal{Z} 42'19	4.44371 AU
	6319 Mar 03 05:56	15° \mathcal{R} \mathcal{Q}		direct	6324 Sep 13 22:58	19° \mathcal{Z} 51'57	
direct	6319 Apr 06 17:25	13° \mathcal{Q} 02'45			6324 Dec 12 22:45	0° \approx	
asc. node	6319 Apr 30 05:08	13° \mathcal{Q} 58'04		evening set	6325 Jan 17 09:00	7° \approx 23'30	
	6319 May 11 08:04	15° \mathcal{Q}		max. Earth dist.	6325 Jan 27 23:00	9° \approx 43'06	6.39155 AU
	6319 Aug 01 06:07	0° \mathcal{M}					
evening set	6319 Aug 11 08:27	2° \mathcal{M} 18'43		conjunction	6325 Jan 30 03:34	10° \approx 12'06	0°14'14
				minimum elong	6325 Jan 30 03:34	10° \approx 12'06	0°14'16
conjunction	6319 Aug 25 01:20	5° \mathcal{M} 29'01	0°09'35	behind sun begin	6325 Jan 29 23:41	10° \approx 09'59	
minimum elong	6319 Aug 25 01:19	5° \mathcal{M} 29'00	0°09'34	behind sun end	6325 Jan 30 07:27	10° \approx 14'14	
behind sun begin	6319 Aug 24 18:26	5° \mathcal{M} 25'02		morning rise	6325 Feb 11 20:18	13° \approx 00'05	
behind sun end	6319 Aug 25 08:12	5° \mathcal{M} 32'58			6325 Feb 21 00:17	15° \approx	
max. Earth dist.	6319 Aug 27 11:36	6° \mathcal{M} 02'45	6.10152 AU		6325 May 30 04:15	0° \mathcal{H}	
morning rise	6319 Sep 07 19:12	8° \mathcal{M} 39'25		retrograde	6325 Jun 14 02:55	0° \mathcal{H} 20'55	
retrograde	6320 Jan 13 03:22	27° \mathcal{M} 42'56			6325 Jun 29 03:06	30° \mathcal{R} \approx	
opposition	6320 Mar 12 21:59	22° \mathcal{M} 39'19	0°36'38	desc. node	6325 Aug 12 07:34	25° \approx 41'52	
min. Earth dist.	6320 Mar 11 12:08	22° \mathcal{M} 50'46	4.18318 AU	opposition	6325 Aug 14 01:42	25° \approx 28'25	-0°00'12
direct	6320 May 11 07:00	17° \mathcal{M} 39'21		min. Earth dist.	6325 Aug 15 16:36	25° \approx 15'59	4.32455 AU
	6320 Aug 17 11:28	0° \mathcal{L}		direct	6325 Oct 15 04:07	20° \approx 28'49	
evening set	6320 Sep 14 20:50	6° \mathcal{L} 07'51			6326 Jan 08 10:33	0° \mathcal{H}	
				evening set	6326 Feb 17 14:51	8° \mathcal{H} 35'09	
conjunction	6320 Sep 28 10:58	9° \mathcal{L} 09'37	0°37'28	max. Earth dist.	6326 Feb 28 03:42	10° \mathcal{H} 58'55	6.24688 AU
minimum elong	6320 Sep 28 10:57	9° \mathcal{L} 09'36	0°37'28				
max. Earth dist.	6320 Sep 30 05:02	9° \mathcal{L} 33'06	6.26596 AU	conjunction	6326 Mar 02 08:23	11° \mathcal{H} 28'59	-0°15'08
morning rise	6320 Oct 12 00:19	12° \mathcal{L} 10'41		minimum elong	6326 Mar 02 08:22	11° \mathcal{H} 28'59	0°15'07
	6321 Feb 07 14:09	0° \mathcal{M}		behind sun begin	6326 Mar 02 05:22	11° \mathcal{H} 27'16	
retrograde	6321 Feb 12 23:32	0° \mathcal{M} 02'50		behind sun end	6326 Mar 02 11:22	11° \mathcal{H} 30'41	
	6321 Feb 18 08:45	30° \mathcal{R} \mathcal{L}		morning rise	6326 Mar 15 01:22	14° \mathcal{H} 22'51	
min. Earth dist.	6321 Apr 13 07:16	25° \mathcal{L} 08'33	4.34117 AU		6326 Jun 05 10:08	0° \mathcal{Y}	
opposition	6321 Apr 14 02:09	25° \mathcal{L} 02'16	1°08'21	retrograde	6326 Jul 18 12:05	2° \mathcal{Y} 46'53	

	6326 Aug 31 02:46	30° \mathbb{K}		opposition	6332 Mar 17 14:17	27° \mathbb{M} 30'17	0°42'13
opposition	6326 Sep 17 02:53	27° \mathbb{K} 53'03	-0°43'07	direct	6332 May 16 05:28	22° \mathbb{M} 30'00	
min. Earth dist.	6326 Sep 18 12:54	27° \mathbb{K} 42'04	4.16335 AU		6332 Jul 28 18:17	0° \mathbb{L}	
direct	6326 Nov 17 01:34	22° \mathbb{K} 55'38		evening set	6332 Sep 19 16:19	10° \mathbb{L} 50'52	
	6327 Jan 26 11:15	0° \mathbb{Y}					
evening set	6327 Mar 22 15:44	11° \mathbb{Y} 49'16		conjunction	6332 Oct 03 05:45	13° \mathbb{L} 51'15	0°40'26
max. Earth dist.	6327 Apr 02 22:28	14° \mathbb{Y} 28'59	6.08259 AU	minimum elong	6332 Oct 03 05:43	13° \mathbb{L} 51'14	0°40'26
				max. Earth dist.	6332 Oct 04 21:10	14° \mathbb{L} 13'09	6.29092 AU
conjunction	6327 Apr 04 11:19	14° \mathbb{Y} 50'47	-0°41'05	morning rise	6332 Oct 16 18:10	16° \mathbb{L} 50'52	
minimum elong	6327 Apr 04 11:18	14° \mathbb{Y} 50'46	0°41'05		6332 Dec 23 11:34	0° \mathbb{M}	
morning rise	6327 Apr 17 07:44	17° \mathbb{Y} 53'02		retrograde	6333 Feb 17 05:29	4° \mathbb{M} 33'15	
	6327 Jun 12 08:06	0° \mathbb{B}			6333 Apr 15 01:38	30° \mathbb{R} \mathbb{L}	
retrograde	6327 Aug 24 09:22	7° \mathbb{B} 32'42		opposition	6333 Apr 18 10:50	29° \mathbb{L} 33'07	1°11'03
opposition	6327 Oct 23 13:27	2° \mathbb{B} 36'16	-1°14'26	min. Earth dist.	6333 Apr 17 17:38	29° \mathbb{L} 38'49	4.36337 AU
min. Earth dist.	6327 Oct 24 04:31	2° \mathbb{B} 31'19	4.00996 AU	direct	6333 Jun 18 09:29	24° \mathbb{L} 31'25	
	6327 Nov 13 11:36	30° \mathbb{R} \mathbb{Y}			6333 Aug 20 11:07	0° \mathbb{M}	
direct	6327 Dec 21 22:59	27° \mathbb{Y} 41'10		evening set	6333 Oct 22 15:34	12° \mathbb{M} 12'42	
	6328 Jan 28 21:47	0° \mathbb{B}					
	6328 Apr 16 05:38	15° \mathbb{B}		conjunction	6333 Nov 04 23:06	15° \mathbb{M} 05'16	0°53'24
evening set	6328 Apr 25 23:45	17° \mathbb{B} 20'06		minimum elong	6333 Nov 04 23:06	15° \mathbb{M} 05'16	0°53'25
					6333 Nov 04 13:22	15° \mathbb{M}	
conjunction	6328 May 09 00:40	20° \mathbb{B} 29'47	-0°53'32	max. Earth dist.	6333 Nov 05 09:12	15° \mathbb{M} 10'44	6.42307 AU
minimum elong	6328 May 09 00:40	20° \mathbb{B} 29'47	0°53'34	morning rise	6333 Nov 18 04:37	17° \mathbb{M} 56'42	
max. Earth dist.	6328 May 08 19:05	20° \mathbb{B} 26'23	5.95436 AU		6334 Jan 20 01:44	0° \mathbb{J}	
morning rise	6328 May 22 03:51	23° \mathbb{B} 40'52		retrograde	6334 Mar 19 07:44	4° \mathbb{J} 51'23	
	6328 Jun 18 00:52	0° \mathbb{I}		opposition	6334 May 18 21:11	29° \mathbb{M} 54'50	1°18'29
retrograde	6328 Sep 30 23:59	14° \mathbb{I} 20'05			6334 May 18 05:17	30° \mathbb{R} \mathbb{M}	
opposition	6328 Nov 29 17:10	9° \mathbb{I} 20'07	-1°18'34	min. Earth dist.	6334 May 19 00:17	29° \mathbb{M} 53'49	4.46517 AU
min. Earth dist.	6328 Nov 29 07:40	9° \mathbb{I} 23'18	3.92131 AU	direct	6334 Jul 19 23:52	24° \mathbb{M} 52'41	
direct	6329 Jan 26 22:39	4° \mathbb{I} 26'04			6334 Sep 19 14:19	0° \mathbb{J}	
evening set	6329 Jun 02 07:03	24° \mathbb{I} 27'37		evening set	6334 Nov 22 21:15	12° \mathbb{J} 11'30	
conjunction	6329 Jun 15 15:53	27° \mathbb{I} 42'56	-0°45'14	conjunction	6334 Dec 05 22:53	14° \mathbb{J} 59'17	0°51'18
minimum elong	6329 Jun 15 15:55	27° \mathbb{I} 42'57	0°45'17	minimum elong	6334 Dec 05 22:53	14° \mathbb{J} 59'17	0°51'20
max. Earth dist.	6329 Jun 17 00:09	28° \mathbb{I} 02'37	5.91437 AU	max. Earth dist.	6334 Dec 05 03:27	14° \mathbb{J} 48'51	6.48713 AU
	6329 Jun 25 00:53	0° \mathbb{E}		morning rise	6334 Dec 18 22:08	17° \mathbb{J} 45'53	
morning rise	6329 Jun 29 03:22	0° \mathbb{E} 59'43			6335 Feb 21 20:25	0° \mathbb{Z}	
retrograde	6329 Nov 08 12:27	21° \mathbb{E} 49'48		retrograde	6335 Apr 18 01:03	4° \mathbb{Z} 21'45	
opposition	6330 Jan 06 22:32	16° \mathbb{E} 46'32	-0°50'24		6335 Jun 13 17:21	30° \mathbb{R} \mathbb{J}	
min. Earth dist.	6330 Jan 05 16:31	16° \mathbb{E} 56'43	3.93592 AU	opposition	6335 Jun 17 21:32	29° \mathbb{J} 27'54	1°05'16
direct	6330 Mar 05 18:42	11° \mathbb{E} 51'19		min. Earth dist.	6335 Jun 18 18:58	29° \mathbb{J} 21'02	4.48888 AU
	6330 Jul 03 06:47	0° \mathbb{Q}		direct	6335 Aug 19 14:30	24° \mathbb{J} 26'00	
evening set	6330 Jul 10 08:27	1° \mathbb{Q} 40'22			6335 Oct 23 07:07	0° \mathbb{Z}	
				evening set	6335 Dec 23 05:12	11° \mathbb{Z} 42'52	
conjunction	6330 Jul 23 23:36	4° \mathbb{Q} 55'31	-0°18'45	max. Earth dist.	6336 Jan 03 09:13	14° \mathbb{Z} 07'20	6.46853 AU
minimum elong	6330 Jul 23 23:38	4° \mathbb{Q} 55'31	0°18'47				
max. Earth dist.	6330 Jul 26 07:40	5° \mathbb{Q} 28'59	5.98146 AU	conjunction	6336 Jan 05 02:20	14° \mathbb{Z} 29'35	0°35'42
morning rise	6330 Aug 06 17:06	8° \mathbb{Q} 11'35		minimum elong	6336 Jan 05 02:21	14° \mathbb{Z} 29'36	0°35'44
	6330 Sep 05 09:33	15° \mathbb{Q}		morning rise	6336 Jan 17 21:02	17° \mathbb{Z} 15'18	
retrograde	6330 Dec 14 22:45	28° \mathbb{Q} 16'54			6336 Mar 25 12:13	0° \mathbb{W}	
min. Earth dist.	6331 Feb 10 21:09	23° \mathbb{Q} 25'24	4.04733 AU	retrograde	6336 May 17 12:29	4° \mathbb{W} 02'54	
opposition	6331 Feb 12 11:50	23° \mathbb{Q} 12'14	-0°03'06		6336 Jul 11 00:00	30° \mathbb{R} \mathbb{Z}	
asc. node	6331 Mar 09 11:09	20° \mathbb{Q} 04'38		opposition	6336 Jul 17 12:17	29° \mathbb{Z} 10'26	0°35'00
direct	6331 Apr 11 20:56	18° \mathbb{Q} 14'23		min. Earth dist.	6336 Jul 18 23:13	28° \mathbb{Z} 59'18	4.42925 AU
	6331 Jul 14 04:03	0° \mathbb{M}		direct	6336 Sep 18 04:36	24° \mathbb{Z} 09'27	
evening set	6331 Aug 16 12:27	7° \mathbb{M} 23'24			6336 Nov 23 01:35	0° \mathbb{W}	
				evening set	6337 Jan 21 15:25	11° \mathbb{W} 45'27	
conjunction	6331 Aug 30 05:13	10° \mathbb{M} 32'30	0°14'04	max. Earth dist.	6337 Feb 01 03:02	14° \mathbb{W} 04'26	6.37159 AU
minimum elong	6331 Aug 30 05:12	10° \mathbb{M} 32'29	0°14'03				
behind sun begin	6331 Aug 30 01:15	10° \mathbb{M} 30'14		conjunction	6337 Feb 03 09:36	14° \mathbb{W} 34'42	0°10'17
behind sun end	6331 Aug 30 09:08	10° \mathbb{M} 34'45		minimum elong	6337 Feb 03 09:36	14° \mathbb{W} 34'42	0°10'19
max. Earth dist.	6331 Sep 01 14:30	11° \mathbb{M} 05'30	6.12600 AU	behind sun begin	6337 Feb 03 03:17	14° \mathbb{W} 31'12	
morning rise	6331 Sep 12 22:36	13° \mathbb{M} 41'34		behind sun end	6337 Feb 03 15:56	14° \mathbb{W} 38'11	
	6331 Dec 08 04:43	0° \mathbb{L}			6337 Feb 05 07:14	15° \mathbb{W}	
retrograde	6332 Jan 17 19:16	2° \mathbb{L} 33'36		morning rise	6337 Feb 16 02:22	17° \mathbb{W} 23'26	
	6332 Feb 27 05:21	30° \mathbb{R} \mathbb{M}			6337 Apr 21 09:28	0° \mathbb{K}	
min. Earth dist.	6332 Mar 16 06:33	27° \mathbb{M} 40'59	4.20901 AU	retrograde	6337 Jun 18 19:46	4° \mathbb{K} 52'42	

desc. node	6337 Jun 22 08:18	4° H 51'31		min. Earth dist.	6343 Feb 15 22:02	28° Ω 32'58	4.07097 AU
opposition	6337 Aug 18 16:26	0° H 00'05 -0°06'18		opposition	6343 Feb 17 11:43	28° Ω 20'09	0°03'56
	6337 Aug 18 16:42	30° R \approx		direct	6343 Apr 17 01:40	23° Ω 21'56	
min. Earth dist.	6337 Aug 20 08:22	29° \approx 47'18	4.30015 AU		6343 Jun 23 06:06	0° H	
direct	6337 Oct 19 16:25	25° \approx 00'42		evening set	6343 Aug 21 14:46	12° H 23'12	
	6337 Dec 18 00:21	0° H					
evening set	6338 Feb 22 03:07	13° H 14'25		conjunction	6343 Sep 04 07:18	15° H 31'01	0°18'25
max. Earth dist.	6338 Mar 04 17:12	15° H 39'44	6.22007 AU	minimum elong	6343 Sep 04 07:17	15° H 31'01	0°18'25
				max. Earth dist.	6343 Sep 06 15:57	16° H 03'27	6.15170 AU
conjunction	6338 Mar 06 20:56	16° H 09'26 -0°19'11		morning rise	6343 Sep 18 00:08	18° H 38'40	
minimum elong	6338 Mar 06 20:55	16° H 09'25	0°19'11		6343 Nov 11 08:59	0° Ω	
morning rise	6338 Mar 19 14:15	19° H 04'32		retrograde	6344 Jan 22 07:42	7° Ω 19'22	
	6338 May 10 05:11	0° Y		min. Earth dist.	6344 Mar 20 21:57	2° Ω 26'51	4.23445 AU
retrograde	6338 Jul 23 13:18	7° Y 40'18		opposition	6344 Mar 22 04:47	2° Ω 16'29	0°47'29
opposition	6338 Sep 22 02:56	2° Y 46'11 -0°48'36			6344 Apr 08 19:25	30° R H	
min. Earth dist.	6338 Sep 23 10:16	2° Y 36'03	4.13630 AU	direct	6344 May 20 23:38	27° H 15'59	
	6338 Oct 14 20:26	30° R H			6344 Jul 02 12:27	0° Ω	
direct	6338 Nov 21 19:01	27° H 49'09		evening set	6344 Sep 24 10:31	15° Ω 29'55	
	6338 Dec 29 06:54	0° Y					
evening set	6339 Mar 27 12:44	16° Y 51'08		conjunction	6344 Oct 07 23:03	18° Ω 28'59	0°43'08
max. Earth dist.	6339 Apr 07 23:55	19° Y 34'23	6.05771 AU	minimum elong	6344 Oct 07 23:02	18° Ω 28'58	0°43'10
				max. Earth dist.	6344 Oct 09 09:22	18° Ω 47'57	6.31410 AU
conjunction	6339 Apr 09 08:51	19° Y 53'59 -0°43'51		morning rise	6344 Oct 21 10:35	21° Ω 27'14	
minimum elong	6339 Apr 09 08:50	19° Y 53'58	0°43'52		6344 Dec 01 14:55	0° H	
morning rise	6339 Apr 22 06:08	22° Y 57'43		retrograde	6345 Feb 21 13:20	9° H 01'02	
	6339 May 22 23:22	0° H		opposition	6345 Apr 22 18:48	4° H 01'28	1°13'23
retrograde	6339 Aug 29 20:38	12° H 48'54		min. Earth dist.	6345 Apr 22 05:21	4° H 05'55	4.38269 AU
opposition	6339 Oct 28 22:25	7° H 51'58 -1°16'56			6345 May 28 10:08	30° R Ω	
min. Earth dist.	6339 Oct 29 10:10	7° H 48'05	3.98972 AU	direct	6345 Jun 22 22:48	28° Ω 59'40	
direct	6339 Dec 27 03:21	2° H 57'09			6345 Jul 18 17:23	0° H	
	6340 Mar 29 04:20	15° H			6345 Oct 19 13:34	15° H	
evening set	6340 May 01 05:19	22° H 41'56		evening set	6345 Oct 27 02:31	16° H 36'28	
conjunction	6340 May 14 07:25	25° H 52'46 -0°53'38		conjunction	6345 Nov 09 09:17	19° H 28'10	0°53'58
minimum elong	6340 May 14 07:25	25° H 52'46	0°53'40	minimum elong	6345 Nov 09 09:16	19° H 28'10	0°54'00
max. Earth dist.	6340 May 14 08:47	25° H 53'36	5.94093 AU	max. Earth dist.	6345 Nov 09 15:20	19° H 31'26	6.43710 AU
morning rise	6340 May 27 11:41	29° H 05'00		morning rise	6345 Nov 22 13:50	22° H 18'42	
	6340 May 31 06:51	0° H			6345 Dec 30 05:23	0° H	
retrograde	6340 Oct 06 14:43	19° H 49'38		retrograde	6346 Mar 23 10:52	9° H 09'00	
opposition	6340 Dec 05 05:35	14° H 49'09 -1°16'19		opposition	6346 May 23 02:04	4° H 12'54	1°17'46
min. Earth dist.	6340 Dec 04 16:25	14° H 53'34	3.91658 AU	min. Earth dist.	6346 May 23 07:24	4° H 11'10	4.47336 AU
direct	6341 Feb 01 08:11	9° H 55'07			6346 Jun 30 22:39	30° R H	
evening set	6341 Jun 07 17:46	29° H 56'52		direct	6346 Jul 24 06:12	29° H 10'47	
	6341 Jun 07 22:56	0° Ω			6346 Aug 16 21:01	0° H	
				evening set	6346 Nov 27 03:55	16° H 28'15	
conjunction	6341 Jun 21 03:31	3° Ω 12'28 -0°42'19		max. Earth dist.	6346 Dec 09 06:10	19° H 03'31	6.48892 AU
minimum elong	6341 Jun 21 03:32	3° Ω 12'30	0°42'21				
max. Earth dist.	6341 Jun 22 15:40	3° Ω 34'29	5.91851 AU	conjunction	6346 Dec 10 04:50	19° H 15'41	0°49'49
morning rise	6341 Jul 04 16:13	6° Ω 29'33		minimum elong	6346 Dec 10 04:51	19° H 15'42	0°49'52
retrograde	6341 Nov 13 19:21	27° Ω 15'37		morning rise	6346 Dec 23 03:17	22° H 01'57	
min. Earth dist.	6342 Jan 10 21:44	22° Ω 23'12	3.94841 AU		6347 Jan 31 12:24	0° H	
opposition	6342 Jan 12 06:53	22° Ω 11'56 -0°44'15		retrograde	6347 Apr 22 06:31	8° H 38'00	
direct	6342 Mar 11 03:01	17° Ω 16'23		opposition	6347 Jun 22 03:14	3° H 44'30	1°01'53
	6342 Jun 15 05:43	0° Ω		min. Earth dist.	6347 Jun 23 03:30	3° H 36'44	4.48424 AU
evening set	6342 Jul 15 17:29	7° Ω 00'09			6347 Jul 25 05:47	30° R H	
				direct	6347 Aug 23 21:20	28° H 42'44	
conjunction	6342 Jul 29 09:13	10° Ω 14'38 -0°14'06			6347 Sep 22 16:55	0° H	
minimum elong	6342 Jul 29 09:14	10° Ω 14'38	0°14'09	evening set	6347 Dec 27 11:17	16° H 01'32	
behind sun begin	6342 Jul 29 05:18	10° Ω 12'19		max. Earth dist.	6348 Jan 07 10:37	18° H 23'57	6.45765 AU
behind sun end	6342 Jul 29 13:09	10° Ω 16'57					
max. Earth dist.	6342 Jul 31 19:02	10° Ω 48'59	6.00080 AU	conjunction	6348 Jan 09 07:48	18° H 48'27	0°32'34
morning rise	6342 Aug 12 02:55	13° Ω 29'52		minimum elong	6348 Jan 09 07:49	18° H 48'28	0°32'37
	6342 Aug 18 12:52	15° Ω		morning rise	6348 Jan 22 02:15	21° H 34'29	
	6342 Nov 02 22:52	0° H			6348 Mar 03 09:18	0° \approx	
retrograde	6342 Dec 19 22:26	3° H 24'47		retrograde	6348 May 21 23:29	8° \approx 26'47	
asc. node	6343 Jan 16 10:07	2° H 10'07		opposition	6348 Jul 21 22:22	3° \approx 34'24	0°29'36
	6343 Feb 05 00:41	30° R Ω		min. Earth dist.	6348 Jul 23 10:51	3° \approx 22'45	4.41279 AU

	6348 Aug 22 05:10	30° κ 3	opposition	6354 Jan 17 11:11	27° ϕ 28'02" -0°37'58"
direct	6348 Sep 22 13:05	28° ϕ 33'34"	direct	6354 Mar 16 10:11	22° ϕ 32'06"
	6348 Oct 23 21:54	0° \approx		6354 May 26 00:21	0° Ω
	6349 Jan 20 08:19	15° \approx	evening set	6354 Jul 20 22:23	12° Ω 09'28"
evening set	6349 Jan 26 00:10	16° \approx 14'38"		6354 Aug 01 23:26	15° Ω
max. Earth dist.	6349 Feb 05 12:11	18° \approx 34'28" 6.35081 AU			
			conjunction	6354 Aug 03 14:31	15° Ω 23'06" -0°09'32"
conjunction	6349 Feb 07 18:20	19° \approx 04'38" 0°06'11"	minimum elong	6354 Aug 03 14:32	15° Ω 23'06" 0°09'34"
minimum elong	6349 Feb 07 18:21	19° \approx 04'39" 0°06'13"	behind sun begin	6354 Aug 03 07:37	15° Ω 19'02"
behind sun begin	6349 Feb 07 10:48	19° \approx 00'28"	behind sun end	6354 Aug 03 21:26	15° Ω 27'10"
behind sun end	6349 Feb 08 01:54	19° \approx 08'50"	max. Earth dist.	6354 Aug 06 01:55	15° Ω 58'11" 6.02197 AU
morning rise	6349 Feb 20 10:56	21° \approx 54'11"	morning rise	6354 Aug 17 08:23	18° Ω 37'21"
	6349 Mar 30 19:08	0° χ		6354 Oct 08 17:52	0° η
desc. node	6349 May 01 06:08	5° χ 24'29"	asc. node	6354 Nov 26 19:32	7° η 06'08"
retrograde	6349 Jun 23 13:43	9° χ 32'10"	retrograde	6354 Dec 24 16:07	8° η 21'21"
opposition	6349 Aug 23 09:59	4° χ 39'29" -0°12'34"	min. Earth dist.	6355 Feb 20 16:52	3° η 29'41" 4.09481 AU
min. Earth dist.	6349 Aug 25 01:02	4° χ 26'59" 4.27649 AU	opposition	6355 Feb 22 06:40	3° η 16'51" 0°10'39"
	6349 Oct 09 17:08	30° κ \approx		6355 Mar 20 19:10	30° κ Ω
direct	6349 Oct 24 05:04	29° \approx 40'29"	direct	6355 Apr 21 23:38	28° Ω 18'15"
	6349 Nov 07 17:43	0° χ		6355 May 24 10:38	0° η
evening set	6350 Feb 26 18:00	18° χ 01'16"	evening set	6355 Aug 26 12:59	17° η 12'09"
max. Earth dist.	6350 Mar 09 09:30	20° χ 28'15" 6.19549 AU			
			conjunction	6355 Sep 09 05:02	20° η 18'42" 0°22'30"
conjunction	6350 Mar 11 11:50	20° χ 57'19" -0°23'14"	minimum elong	6355 Sep 09 05:00	20° η 18'41" 0°22'29"
minimum elong	6350 Mar 11 11:48	20° χ 57'19" 0°23'13"	max. Earth dist.	6355 Sep 11 09:27	20° η 48'33" 6.17603 AU
morning rise	6350 Mar 24 05:37	23° χ 53'37"	morning rise	6355 Sep 22 21:25	23° η 25'00"
	6350 Apr 20 13:35	0° γ		6355 Oct 23 01:31	0° $\underline{\Omega}$
retrograde	6350 Jul 28 17:56	12° γ 40'28"	retrograde	6356 Jan 26 17:45	11° $\underline{\Omega}$ 55'18"
opposition	6350 Sep 27 05:27	7° γ 46'00" -0°53'53"	min. Earth dist.	6356 Mar 25 11:49	7° $\underline{\Omega}$ 02'08" 4.25711 AU
min. Earth dist.	6350 Sep 28 10:31	7° γ 36'34" 4.11284 AU	opposition	6356 Mar 26 15:36	6° $\underline{\Omega}$ 52'48" 0°52'16"
direct	6350 Nov 26 16:56	2° γ 49'20"	direct	6356 May 25 15:45	1° $\underline{\Omega}$ 52'02"
evening set	6351 Apr 01 11:22	21° γ 58'11"	evening set	6356 Sep 29 00:59	20° $\underline{\Omega}$ 00'07"
max. Earth dist.	6351 Apr 13 04:43	24° γ 45'45" 6.03782 AU			
			conjunction	6356 Oct 12 12:57	22° $\underline{\Omega}$ 58'06" 0°45'31"
conjunction	6351 Apr 14 08:16	25° γ 02'12" -0°46'23"	minimum elong	6356 Oct 12 12:56	22° $\underline{\Omega}$ 58'06" 0°45'32"
minimum elong	6351 Apr 14 08:14	25° γ 02'11" 0°46'24"	max. Earth dist.	6356 Oct 13 20:22	23° $\underline{\Omega}$ 15'24" 6.33345 AU
morning rise	6351 Apr 27 06:14	28° γ 07'09"	morning rise	6356 Oct 25 23:28	25° $\underline{\Omega}$ 55'10"
	6351 May 05 05:18	0° δ		6356 Nov 14 00:12	0° \mathbb{M}
	6351 Jul 21 01:51	15° δ	retrograde	6357 Feb 25 16:55	13° \mathbb{M} 21'53"
retrograde	6351 Sep 04 07:15	18° δ 07'24"	opposition	6357 Apr 27 00:18	8° \mathbb{M} 22'51" 1°15'17"
	6351 Oct 20 01:34	15° \mathbb{R} δ	min. Earth dist.	6357 Apr 26 12:49	8° \mathbb{M} 26'38" 4.39761 AU
opposition	6351 Nov 03 07:29	13° \mathbb{R} 10'01" -1°18'50"	direct	6357 Jun 27 06:42	3° \mathbb{M} 21'00"
min. Earth dist.	6351 Nov 03 15:37	13° \mathbb{R} 07'20" 3.97579 AU		6357 Oct 03 00:09	15° \mathbb{M}
direct	6352 Jan 01 08:00	8° \mathbb{R} 15'29"	evening set	6357 Oct 31 11:28	20° \mathbb{M} 54'41"
	6352 Mar 08 02:06	15° \mathbb{R}			
evening set	6352 May 06 10:56	28° \mathbb{R} 03'37"	conjunction	6357 Nov 13 17:17	23° \mathbb{M} 45'41" 0°54'15"
	6352 May 14 10:29	0° \mathbb{I}	minimum elong	6357 Nov 13 17:17	23° \mathbb{M} 45'41" 0°54'17"
			max. Earth dist.	6357 Nov 13 17:50	23° \mathbb{M} 45'59" 6.44661 AU
conjunction	6352 May 19 13:51	1° \mathbb{I} 15'12" -0°53'20"	morning rise	6357 Nov 26 21:04	26° \mathbb{M} 35'31"
minimum elong	6352 May 19 13:51	1° \mathbb{I} 15'12" 0°53'22"		6357 Dec 13 00:39	0° \mathbb{J}
max. Earth dist.	6352 May 19 19:33	1° \mathbb{I} 18'40" 5.93422 AU	retrograde	6358 Mar 27 15:32	13° \mathbb{J} 22'56"
morning rise	6352 Jun 01 19:24	4° \mathbb{I} 28'17"	opposition	6358 May 27 06:04	8° \mathbb{J} 27'19" 1°16'41"
retrograde	6352 Oct 12 00:03	25° \mathbb{I} 15'08"	min. Earth dist.	6358 May 27 15:09	8° \mathbb{J} 24'22" 4.47715 AU
opposition	6352 Dec 10 15:28	20° \mathbb{I} 14'03" -1°13'28"	direct	6358 Jul 28 13:32	3° \mathbb{J} 25'12"
min. Earth dist.	6352 Dec 09 22:04	20° \mathbb{I} 19'55" 3.91807 AU	evening set	6358 Dec 01 09:53	20° \mathbb{J} 42'35"
direct	6353 Feb 06 15:59	15° \mathbb{I} 19'53"	max. Earth dist.	6358 Dec 13 07:55	23° \mathbb{J} 15'45" 6.48677 AU
	6353 May 21 13:53	0° ϕ			
evening set	6353 Jun 13 01:40	5° ϕ 19'33"	conjunction	6358 Dec 14 10:13	23° \mathbb{J} 29'52" 0°48'07"
			minimum elong	6358 Dec 14 10:14	23° \mathbb{J} 29'53" 0°48'09"
conjunction	6353 Jun 26 12:28	8° ϕ 35'10" -0°39'07"	morning rise	6358 Dec 27 08:03	26° \mathbb{J} 16'01"
minimum elong	6353 Jun 26 12:29	8° ϕ 35'11" 0°39'09"		6359 Jan 14 02:42	0° ϕ
max. Earth dist.	6353 Jun 28 05:32	9° ϕ 00'06" 5.92801 AU	retrograde	6359 Apr 26 11:44	12° ϕ 53'21"
morning rise	6353 Jul 10 01:56	11° ϕ 52'08"	opposition	6359 Jun 26 09:02	8° ϕ 00'06" 0°58'13"
	6353 Oct 09 22:59	0° Ω	min. Earth dist.	6359 Jun 27 10:37	7° ϕ 51'54" 4.47658 AU
retrograde	6353 Nov 18 23:47	2° Ω 32'03"	direct	6359 Aug 28 02:16	2° ϕ 58'26"
	6353 Dec 28 22:40	30° κ ϕ	evening set	6359 Dec 31 17:17	20° ϕ 19'56"
min. Earth dist.	6354 Jan 16 01:29	27° ϕ 39'30" 3.96461 AU	max. Earth dist.	6360 Jan 11 15:43	22° ϕ 42'16" 6.44509 AU

conjunction	6360 Jan 13 13:29	23°  07'11 0°29'17	morning rise	6365 Jul 15 10:14	17°  10'19
minimum elong	6360 Jan 13 13:30	23°  07'12 0°29'19		6365 Sep 11 18:16	0° 
morning rise	6360 Jan 26 07:28	25°  53'33	retrograde	6365 Nov 24 02:14	7°  44'54
	6360 Feb 14 15:01	0° 	min. Earth dist.	6366 Jan 21 02:02	2°  52'48 3.97809 AU
retrograde	6360 May 26 10:42	12°  51'03	opposition	6366 Jan 22 13:32	2°  40'44 -0°31'28
opposition	6360 Jul 26 09:16	7°  58'45 0°24'03		6366 Feb 12 10:30	30°  R 
min. Earth dist.	6360 Jul 27 22:42	7°  46'49 4.39604 AU	direct	6366 Mar 21 13:04	27°  44'28
direct	6360 Sep 26 22:02	2°  58'12		6366 Apr 27 15:30	0° 
	6361 Jan 03 17:02	15° 		6366 Jul 16 07:00	15° 
evening set	6361 Jan 30 09:20	20°  44'07	evening set	6366 Jul 26 02:43	17°  17'02
max. Earth dist.	6361 Feb 09 19:49	23°  03'48 6.33104 AU			
conjunction	6361 Feb 12 03:13	23°  34'49 0°02'02	conjunction	6366 Aug 08 19:03	20°  129'57 -0°04'55
minimum elong	6361 Feb 12 03:11	23°  34'48 0°02'02	minimum elong	6366 Aug 08 19:04	20°  129'58 0°04'57
behind sun begin	6361 Feb 11 19:13	23°  30'22	behind sun begin	6366 Aug 08 10:54	20°  125'11
behind sun end	6361 Feb 12 11:10	23°  39'15	behind sun end	6366 Aug 09 03:13	20°  134'44
morning rise	6361 Feb 24 19:55	26°  25'09	max. Earth dist.	6366 Aug 11 05:15	21°  1204'11 6.03979 AU
desc. node	6361 Mar 10 14:11	29°  27'02	morning rise	6366 Aug 22 13:11	23°  143'27
	6361 Mar 13 03:08	0° 		6366 Sep 19 06:29	0° 
retrograde	6361 Jun 28 09:10	14°  11'34	asc. node	6366 Oct 06 18:21	3°  139'05
opposition	6361 Aug 28 03:58	9°  18'41 -0°18'46	retrograde	6366 Dec 29 10:17	13°  118'14
min. Earth dist.	6361 Aug 29 17:57	9°  106'29 4.25488 AU	min. Earth dist.	6367 Feb 25 13:01	8°  126'15 4.11493 AU
direct	6361 Oct 28 19:19	4°  19'57	opposition	6367 Feb 27 01:32	8°  113'51 0°17'16
evening set	6362 Mar 03 08:35	22°  146'55	direct	6367 Apr 26 22:31	3°  114'52
max. Earth dist.	6362 Mar 14 03:55	25°  16'47 6.17380 AU	evening set	6367 Aug 31 11:23	22°  1102'54
conjunction	6362 Mar 16 02:46	25°  143'59 -0°27'06	conjunction	6367 Sep 14 03:15	25°  1108'24 0°26'26
minimum elong	6362 Mar 16 02:45	25°  143'58 0°27'05	minimum elong	6367 Sep 14 03:14	25°  1108'23 0°26'26
morning rise	6362 Mar 28 20:46	28°  141'19	max. Earth dist.	6367 Sep 16 06:39	25°  1137'32 6.19682 AU
	6362 Apr 03 13:39	0° 	morning rise	6367 Sep 27 18:53	28°  113'30
retrograde	6362 Aug 02 20:48	17°  138'00		6367 Oct 05 17:47	0° 
opposition	6362 Oct 02 07:01	12°  143'13 -0°58'44	retrograde	6368 Jan 31 04:34	16°  134'45
min. Earth dist.	6362 Oct 03 09:52	12°  134'30 4.09278 AU	min. Earth dist.	6368 Mar 30 01:17	11°  141'30 4.27681 AU
direct	6362 Dec 01 13:21	7°  146'57	opposition	6368 Mar 31 03:29	11°  132'44 0°56'45
evening set	6363 Apr 06 08:55	27°  140'30	direct	6368 May 30 07:03	6°  131'49
max. Earth dist.	6363 Apr 18 05:34	29°  151'43 6.02091 AU	evening set	6368 Oct 03 17:08	24°  135'02
	6363 Apr 18 19:22	0° 			
conjunction	6363 Apr 19 06:17	0°  1806'32 -0°48'31	conjunction	6368 Oct 17 04:10	27°  1431'58 0°47'39
minimum elong	6363 Apr 19 06:16	0°  1806'32 0°48'33	minimum elong	6368 Oct 17 04:09	27°  1431'57 0°47'40
morning rise	6363 May 02 05:15	3°  1812'39	max. Earth dist.	6368 Oct 18 06:23	27°  1446'21 6.35057 AU
	6363 Jun 24 14:49	15° 		6368 Oct 28 10:33	0° 
retrograde	6363 Sep 09 14:48	23°  1821'00	morning rise	6368 Oct 30 13:56	0°  1828'00
opposition	6363 Nov 08 14:31	18°  1823'07 -1°20'04		6369 Jan 17 19:48	15° 
min. Earth dist.	6363 Nov 08 18:32	18°  1821'47 3.96377 AU	retrograde	6369 Mar 02 00:01	17°  1848'19
direct	6363 Dec 06 21:56	15°  1818'58		6369 Apr 14 05:17	15°  1818'18
	6364 Jan 06 10:56	13°  1828'44	opposition	6369 May 01 07:45	12°  1849'47 1°16'46
	6364 Feb 05 18:30	15° 	min. Earth dist.	6369 Apr 30 23:30	12°  1852'30 4.41130 AU
	6364 Apr 27 16:57	0° 	direct	6369 Jul 01 18:38	7°  1847'52
evening set	6364 May 11 14:28	3°  1819'53	evening set	6369 Sep 13 18:02	15° 
				6369 Nov 04 22:01	25°  1818'38
conjunction	6364 May 24 18:32	6°  1832'15 -0°52'35	conjunction	6369 Nov 18 03:12	28°  1808'58 0°54'15
minimum elong	6364 May 24 18:33	6°  1832'16 0°52'38	minimum elong	6369 Nov 18 03:12	28°  1808'58 0°54'18
max. Earth dist.	6364 May 25 06:19	6°  1839'26 5.92832 AU	max. Earth dist.	6369 Nov 18 01:41	28°  1808'09 6.45621 AU
morning rise	6364 Jun 07 01:02	9°  1846'06		6369 Nov 26 17:32	0° 
	6364 Sep 28 11:25	0° 	morning rise	6369 Dec 01 05:56	0°  1858'05
retrograde	6364 Oct 17 09:20	0°  1835'05	retrograde	6370 Mar 31 19:15	17°  1842'26
	6364 Nov 05 03:52	30°  1818'18	opposition	6370 May 31 11:59	12°  1847'14 1°15'12
opposition	6364 Dec 15 23:01	25°  1833'33 -1°10'03	min. Earth dist.	6370 May 31 22:15	12°  1843'55 4.48252 AU
min. Earth dist.	6364 Dec 15 03:49	25°  1840'02 3.91905 AU	direct	6370 Aug 01 20:45	7°  1845'14
direct	6365 Feb 11 22:36	20°  1839'16	evening set	6370 Dec 05 17:08	25°  1801'35
	6365 May 02 12:19	0° 	max. Earth dist.	6370 Dec 17 11:34	27°  1832'55 6.48780 AU
evening set	6365 Jun 18 08:05	10°  1837'36			
conjunction	6365 Jul 01 19:49	13°  1853'18 -0°35'38	conjunction	6370 Dec 18 16:38	27°  1848'33 0°46'09
minimum elong	6365 Jul 01 19:51	13°  1853'19 0°35'41	minimum elong	6370 Dec 18 16:39	27°  1848'33 0°46'11
max. Earth dist.	6365 Jul 03 16:37	14°  1820'25 5.93563 AU		6370 Dec 28 21:28	0° 
			morning rise	6370 Dec 31 13:50	0°  1834'24
			retrograde	6371 Apr 30 18:51	17°  1811'57

opposition	6371 Jun 30 16:14	12°♊18'55	0°54'15			6377 Apr 09 05:32	0°♎	
min. Earth dist.	6371 Jul 01 20:09	12°♊09'59	4.47332 AU	evening set		6377 Jun 23 10:45	15°♎44'58	
direct	6371 Sep 01 11:08	7°♊17'24						
evening set	6372 Jan 04 23:27	24°♊39'44		conjunction		6377 Jul 06 23:24	19°♎00'55	-0°32'03
max. Earth dist.	6372 Jan 15 19:11	27°♊00'53	6.43783 AU	minimum elong		6377 Jul 06 23:25	19°♎00'56	0°32'06
				max. Earth dist.		6377 Jul 08 21:40	19°♎28'53	5.93982 AU
conjunction	6372 Jan 17 19:07	27°♊27'02	0°25'53	morning rise		6377 Jul 20 14:48	22°♎18'09	
minimum elong	6372 Jan 17 19:08	27°♊27'03	0°25'56			6377 Aug 22 22:38	0°♏	
	6372 Jan 29 11:48	0°♏		retrograde		6377 Nov 29 01:44	12°♏49'11	
morning rise	6372 Jan 30 12:45	0°♏13'32		min. Earth dist.		6378 Jan 26 00:41	7°♏57'06	3.98718 AU
	6372 Apr 22 02:09	15°♏		opposition		6378 Jan 27 12:42	7°♏44'49	-0°25'02
retrograde	6372 May 30 20:13	17°♏14'25		direct		6378 Mar 26 14:07	2°♏48'11	
	6372 Jul 08 22:11	15°♏				6378 Jun 28 21:42	15°♏	
opposition	6372 Jul 30 19:34	12°♏22'02	0°18'29	evening set		6378 Jul 31 04:43	22°♏17'51	
min. Earth dist.	6372 Aug 01 08:47	12°♏10'10	4.38517 AU					
direct	6372 Oct 01 06:22	7°♏21'40		conjunction		6378 Aug 13 21:34	25°♏30'21	-0°00'23
	6372 Dec 16 05:41	15°♏		minimum elong		6378 Aug 13 21:36	25°♏30'22	0°00'25
desc. node	6373 Jan 20 00:19	21°♏56'55		behind sun begin		6378 Aug 13 13:13	25°♏25'29	
evening set	6373 Feb 03 16:52	25°♏10'17		behind sun end		6378 Aug 14 05:58	25°♏35'15	
max. Earth dist.	6373 Feb 14 04:51	27°♏31'13	6.31740 AU	max. Earth dist.		6378 Aug 16 09:28	26°♏05'28	6.05317 AU
				asc. node		6378 Aug 18 09:44	26°♏33'44	
conjunction	6373 Feb 16 10:35	28°♏01'25	-0°02'06	morning rise		6378 Aug 27 15:42	28°♏43'13	
minimum elong	6373 Feb 16 10:35	28°♏01'24	0°02'05			6378 Sep 02 04:29	0°♐	
behind sun begin	6373 Feb 16 02:37	27°♏56'57		retrograde		6379 Jan 03 03:57	18°♐10'29	
behind sun end	6373 Feb 16 18:33	28°♏05'52		min. Earth dist.		6379 Mar 02 06:56	13°♐18'30	4.13109 AU
	6373 Feb 25 05:45	0°♑		opposition		6379 Mar 03 18:51	13°♐06'19	0°23'31
morning rise	6373 Mar 01 03:04	0°♑52'13		direct		6379 May 01 18:43	8°♐07'05	
retrograde	6373 Jul 03 00:57	18°♑44'57		evening set		6379 Sep 05 09:18	26°♐50'41	
opposition	6373 Sep 01 19:33	13°♑51'52	-0°24'36					
min. Earth dist.	6373 Sep 03 09:24	13°♑39'43	4.23913 AU	conjunction		6379 Sep 19 00:40	29°♐55'13	0°30'05
direct	6373 Nov 02 08:07	8°♑53'26		minimum elong		6379 Sep 19 00:38	29°♐55'13	0°30'06
evening set	6374 Mar 07 19:57	27°♑24'30				6379 Sep 19 09:08	0°♑	
	6374 Mar 18 23:54	0°♒		max. Earth dist.		6379 Sep 21 01:11	0°♑22'36	6.21435 AU
max. Earth dist.	6374 Mar 18 15:41	29°♑55'13	6.15710 AU	morning rise		6379 Oct 02 15:54	2°♑59'20	
				retrograde		6380 Feb 04 14:40	21°♑12'35	
conjunction	6374 Mar 20 14:07	0°♒22'15	-0°30'36	opposition		6380 Apr 04 15:02	16°♑10'55	1°00'46
minimum elong	6374 Mar 20 14:06	0°♒22'15	0°30'36	min. Earth dist.		6380 Apr 03 14:26	16°♑19'09	4.29422 AU
morning rise	6374 Apr 02 08:38	3°♒20'28		direct		6380 Jun 03 22:36	11°♑09'47	
retrograde	6374 Aug 07 18:03	22°♒25'23		evening set		6380 Oct 08 08:46	29°♑08'36	
opposition	6374 Oct 07 04:22	17°♒30'11	-1°02'56			6380 Oct 12 07:13	0°♒	
min. Earth dist.	6374 Oct 08 04:32	17°♒22'19	4.07636 AU					
direct	6374 Dec 06 06:31	12°♒34'07		conjunction		6380 Oct 21 19:12	2°♒04'36	0°49'26
	6375 Apr 03 02:59	0°♓		minimum elong		6380 Oct 21 19:11	2°♒04'36	0°49'28
evening set	6375 Apr 11 02:02	1°♓53'16		max. Earth dist.		6380 Oct 22 19:33	2°♒17'55	6.36661 AU
max. Earth dist.	6375 Apr 23 04:04	4°♓47'10	6.00636 AU	morning rise		6380 Nov 04 03:52	4°♒59'34	
						6380 Dec 23 20:30	15°♒	
conjunction	6375 Apr 24 00:10	4°♓59'16	-0°50'11	retrograde		6381 Mar 06 05:49	22°♒13'43	
minimum elong	6375 Apr 24 00:09	4°♓59'15	0°50'12	opposition		6381 May 05 15:15	17°♒15'39	1°17'45
morning rise	6375 May 06 23:47	8°♓06'21		min. Earth dist.		6381 May 05 08:44	17°♒17'47	4.42466 AU
	6375 Jun 05 17:23	15°♓				6381 May 23 13:16	15°♒♒	
retrograde	6375 Sep 14 19:18	28°♓21'56		direct		6381 Jul 06 05:45	12°♒13'42	
opposition	6375 Nov 13 16:21	23°♓23'36	-1°20'37			6381 Aug 19 06:32	15°♒	
min. Earth dist.	6375 Nov 13 18:50	23°♓22'47	3.95256 AU	evening set		6381 Nov 09 08:12	29°♒41'16	
direct	6376 Jan 11 09:55	18°♓29'18				6381 Nov 10 19:17	0°♓♓	
	6376 Apr 10 12:13	0°♓♓						
evening set	6376 May 16 13:37	8°♓♓23'34		conjunction		6381 Nov 22 12:21	2°♓♓30'52	0°53'55
				minimum elong		6381 Nov 22 12:22	2°♓♓30'53	0°53'57
conjunction	6376 May 29 18:42	11°♓♓36'46	-0°51'28	max. Earth dist.		6381 Nov 22 06:00	2°♓♓27'28	6.46559 AU
minimum elong	6376 May 29 18:43	11°♓♓36'46	0°51'31	morning rise		6381 Dec 05 14:22	5°♓♓19'19	
max. Earth dist.	6376 May 30 09:38	11°♓♓45'53	5.92153 AU	retrograde		6382 Apr 05 00:35	22°♓♓00'40	
morning rise	6376 Jun 12 02:28	14°♓♓51'29		opposition		6382 Jun 04 17:49	17°♓♓05'46	1°13'16
	6376 Aug 21 14:09	0°♓♓		min. Earth dist.		6382 Jun 05 07:08	17°♓♓01'28	4.48718 AU
retrograde	6376 Oct 22 12:26	5°♓♓42'55		direct		6382 Aug 06 05:45	12°♓♓03'45	
min. Earth dist.	6376 Dec 20 03:22	0°♓♓48'30	3.91770 AU	evening set		6382 Dec 09 23:39	29°♓♓19'14	
opposition	6376 Dec 21 01:31	0°♓♓41'01	-1°06'16			6382 Dec 13 04:00	0°♓♓	
	6376 Dec 26 03:31	30°♓♓♓						
direct	6377 Feb 16 22:24	25°♓♓46'35		conjunction		6382 Dec 22 22:39	2°♓♓05'59	0°43'54

minimum elong	6382 Dec 22 22:40	2°♁06'00	0°43'57		6388 Jul 29 18:24	0°♁	
max. Earth dist.	6382 Dec 21 15:22	1°♁49'10	6.48709 AU	retrograde	6388 Oct 27 22:27	11°♁08'37	
morning rise	6383 Jan 04 19:04	4°♁51'37		min. Earth dist.	6388 Dec 25 09:56	6°♁14'37	3.91960 AU
retrograde	6383 May 05 00:09	21°♁30'05		opposition	6388 Dec 26 10:40	6°♁06'14	-1°01'41
opposition	6383 Jul 04 23:11	16°♁37'12	0°49'55	direct	6389 Feb 22 07:27	1°♁11'35	
min. Earth dist.	6383 Jul 06 03:58	16°♁28'00	4.46713 AU	evening set	6389 Jun 28 19:54	21°♁08'22	
direct	6383 Sep 05 17:15	11°♁35'49					
evening set	6384 Jan 09 05:34	29°♁00'06		conjunction	6389 Jul 12 09:36	24°♁24'19	-0°28'00
	6384 Jan 13 19:47	0°♁		minimum elong	6389 Jul 12 09:38	24°♁24'20	0°28'02
max. Earth dist.	6384 Jan 19 23:23	1°♁20'39	6.42635 AU	max. Earth dist.	6389 Jul 14 12:57	24°♁55'15	5.94957 AU
				morning rise	6389 Jul 26 01:38	27°♁41'22	
conjunction	6384 Jan 22 00:46	1°♁47'40	0°22'16		6389 Aug 04 19:36	0°♁	
minimum elong	6384 Jan 22 00:46	1°♁47'41	0°22'18		6389 Oct 20 17:28	15°♁	
morning rise	6384 Feb 03 18:04	4°♁34'30		retrograde	6389 Dec 04 05:50	18°♁05'40	
	6384 Mar 26 17:49	15°♁			6390 Jan 17 17:44	15°♁	
retrograde	6384 Jun 04 08:53	21°♁40'33		min. Earth dist.	6390 Jan 31 03:14	13°♁13'45	4.00378 AU
opposition	6384 Aug 04 07:17	16°♁48'11	0°12'38	opposition	6390 Feb 01 16:12	13°♁01'09	-0°18'04
min. Earth dist.	6384 Aug 05 22:16	16°♁35'45	4.36878 AU	direct	6390 Mar 31 19:27	8°♁04'11	
	6384 Aug 18 18:00	15°♁			6390 Jun 07 23:33	15°♁	
direct	6384 Oct 05 17:02	11°♁48'02		asc. node	6390 Jun 27 14:18	18°♁49'29	
	6384 Nov 21 22:46	15°♁		evening set	6390 Aug 05 10:38	27°♁27'49	
desc. node	6384 Nov 29 14:51	16°♁02'43			6390 Aug 16 08:03	0°♁	
evening set	6385 Feb 08 01:55	29°♁41'23					
	6385 Feb 09 11:11	0°♁		conjunction	6390 Aug 19 03:30	0°♁39'20	0°04'22
max. Earth dist.	6385 Feb 18 12:34	2°♁02'16	6.29723 AU	minimum elong	6390 Aug 19 03:28	0°♁39'19	0°04'21
				behind sun begin	6390 Aug 18 19:14	0°♁34'32	
conjunction	6385 Feb 20 19:30	2°♁33'15	-0°06'16	behind sun end	6390 Aug 19 11:42	0°♁44'06	
minimum elong	6385 Feb 20 19:30	2°♁33'15	0°06'15	max. Earth dist.	6390 Aug 21 15:02	1°♁14'01	6.07494 AU
behind sun begin	6385 Feb 20 11:57	2°♁29'01		morning rise	6390 Sep 01 21:38	3°♁51'06	
behind sun end	6385 Feb 21 03:03	2°♁37'29		retrograde	6391 Jan 07 20:12	23°♁07'17	
morning rise	6385 Mar 05 12:10	5°♁24'55		min. Earth dist.	6391 Mar 07 01:57	18°♁15'22	4.15579 AU
retrograde	6385 Jul 07 19:37	23°♁26'39		opposition	6391 Mar 08 13:40	18°♁03'16	0°29'45
opposition	6385 Sep 06 14:14	18°♁33'19	-0°30'36	direct	6391 May 06 17:33	13°♁03'39	
min. Earth dist.	6385 Sep 08 02:25	18°♁21'41	4.21647 AU		6391 Sep 02 20:00	0°♁	
direct	6385 Nov 06 21:57	13°♁35'10		evening set	6391 Sep 10 07:22	1°♁39'36	
	6386 Mar 02 20:03	0°♁					
evening set	6386 Mar 12 11:18	2°♁13'02		conjunction	6391 Sep 23 22:12	4°♁42'47	0°33'36
max. Earth dist.	6386 Mar 23 10:59	4°♁46'48	6.13389 AU	minimum elong	6391 Sep 23 22:10	4°♁42'46	0°33'37
				max. Earth dist.	6391 Sep 25 20:34	5°♁08'49	6.23994 AU
conjunction	6386 Mar 25 05:54	5°♁11'55	-0°34'06	morning rise	6391 Oct 07 12:29	7°♁45'22	
minimum elong	6386 Mar 25 05:53	5°♁11'54	0°34'07	retrograde	6392 Feb 09 00:25	25°♁48'01	
morning rise	6386 Apr 07 00:47	8°♁11'19		min. Earth dist.	6392 Apr 08 03:48	20°♁54'07	4.31841 AU
retrograde	6386 Aug 13 00:06	27°♁27'04		opposition	6392 Apr 09 01:49	20°♁46'48	1°04'24
opposition	6386 Oct 12 07:17	22°♁31'32	-1°07'00	direct	6392 Jun 08 15:20	15°♁45'27	
min. Earth dist.	6386 Oct 13 06:00	22°♁24'07	4.05452 AU		6392 Sep 25 22:22	0°♁	
direct	6386 Dec 11 05:24	17°♁35'45		evening set	6392 Oct 12 22:34	3°♁37'40	
	6387 Mar 16 17:02	0°♁					
evening set	6387 Apr 16 01:24	7°♁01'32		conjunction	6392 Oct 26 08:00	6°♁32'26	0°50'56
max. Earth dist.	6387 Apr 28 07:34	9°♁58'37	5.98790 AU	minimum elong	6392 Oct 26 07:59	6°♁32'26	0°50'58
				max. Earth dist.	6392 Oct 27 03:41	6°♁43'10	6.38736 AU
conjunction	6387 Apr 29 00:20	10°♁08'44	-0°51'36	morning rise	6392 Nov 08 15:46	9°♁26'09	
minimum elong	6387 Apr 29 00:19	10°♁08'44	0°51'38		6392 Dec 05 03:25	15°♁	
morning rise	6387 May 12 01:07	13°♁17'10		retrograde	6393 Mar 10 08:51	26°♁32'59	
	6387 May 19 05:22	15°♁		opposition	6393 May 09 20:23	21°♁35'19	1°18'18
	6387 Aug 02 00:39	0°♁		min. Earth dist.	6393 May 09 16:43	21°♁36'31	4.44072 AU
retrograde	6387 Sep 20 04:54	3°♁41'17		direct	6393 Jul 10 14:49	16°♁33'14	
	6387 Nov 09 05:15	30°♁			6393 Oct 25 18:28	0°♁	
opposition	6387 Nov 19 01:05	28°♁42'27	-1°20'36	evening set	6393 Nov 13 15:21	3°♁56'58	
min. Earth dist.	6387 Nov 18 23:12	28°♁43'05	3.93973 AU				
direct	6388 Jan 16 13:01	23°♁48'17		conjunction	6393 Nov 26 18:49	6°♁45'53	0°53'17
	6388 Mar 19 22:24	0°♁		minimum elong	6393 Nov 26 18:50	6°♁45'53	0°53'19
evening set	6388 May 21 20:05	13°♁46'05		max. Earth dist.	6393 Nov 26 09:26	6°♁40'51	6.47578 AU
				morning rise	6393 Dec 09 19:46	9°♁33'34	
conjunction	6388 Jun 04 02:16	17°♁00'06	-0°49'53	retrograde	6394 Apr 09 02:11	26°♁12'02	
minimum elong	6388 Jun 04 02:17	17°♁00'06	0°49'55	opposition	6394 Jun 08 21:11	21°♁17'30	1°11'00
max. Earth dist.	6388 Jun 04 21:56	17°♁12'06	5.91565 AU	min. Earth dist.	6394 Jun 09 12:55	21°♁12'26	4.49089 AU
morning rise	6388 Jun 17 11:16	20°♁15'39		direct	6394 Aug 10 11:06	16°♁15'32	

	6394 Nov 27 10:45	0°♁		conjunction	6400 Jun 09 13:06	22°♊29'38 -0°47'48
evening set	6394 Dec 14 03:41	3°♁30'33		minimum elong	6400 Jun 09 13:08	22°♊29'39 0°47'51
max. Earth dist.	6394 Dec 25 13:43	5°♁57'40 6.48385 AU		max. Earth dist.	6400 Jun 10 15:49	22°♊45'57 5.91339 AU
				morning rise	6400 Jun 22 23:12	25°♊45'50
conjunction	6394 Dec 27 01:53	6°♁17'09 0°41'29			6400 Jul 10 17:15	0°♊
minimum elong	6394 Dec 27 01:54	6°♁17'10 0°41'32		retrograde	6400 Nov 02 10:24	16°♊38'00
morning rise	6395 Jan 08 21:54	9°♁02'44		opposition	6400 Dec 31 21:03	11°♊35'13 -0°56'28
retrograde	6395 May 09 06:31	25°♁43'16		min. Earth dist.	6400 Dec 30 17:32	11°♊44'32 3.92649 AU
opposition	6395 Jul 09 04:51	20°♁50'32 0°45'24		direct	6401 Feb 27 17:18	6°♊40'21
min. Earth dist.	6395 Jul 10 12:47	20°♁40'20 4.45703 AU		evening set	6401 Jul 04 06:16	26°♊33'30
direct	6395 Sep 09 23:42	15°♁49'12				
	6395 Dec 29 03:20	0°♊		conjunction	6401 Jul 17 20:33	29°♊49'04 -0°23'40
evening set	6396 Jan 13 10:18	3°♊16'46		minimum elong	6401 Jul 17 20:34	29°♊49'04 0°23'41
max. Earth dist.	6396 Jan 24 01:57	5°♊36'39 6.41003 AU			6401 Jul 18 14:47	0°♊
				max. Earth dist.	6401 Jul 20 01:54	0°♊21'04 5.96443 AU
conjunction	6396 Jan 26 05:18	6°♊04'51 0°18'35		morning rise	6401 Jul 31 13:22	3°♊05'41
minimum elong	6396 Jan 26 05:19	6°♊04'52 0°18'36			6401 Sep 23 16:36	15°♊
morning rise	6396 Feb 07 22:21	8°♊52'14		retrograde	6401 Dec 09 06:18	23°♊21'03
	6396 Mar 07 21:19	15°♊		min. Earth dist.	6402 Feb 05 04:31	18°♊29'31 4.02465 AU
retrograde	6396 Jun 08 19:35	26°♊05'11		opposition	6402 Feb 06 18:58	18°♊16'25 -0°10'58
opposition	6396 Aug 08 18:35	21°♊12'46 0°06'44			6402 Mar 05 04:39	15°♊♊
min. Earth dist.	6396 Aug 10 09:29	21°♊00'21 4.34719 AU		direct	6402 Apr 06 00:32	13°♊19'03
desc. node	6396 Oct 09 20:31	16°♊12'50		asc. node	6402 May 06 10:15	14°♊50'19
direct	6396 Oct 10 00:19	16°♊12'50			6402 May 08 01:20	15°♊
	6397 Jan 24 08:43	0°♋			6402 Jul 30 08:03	0°♋
evening set	6397 Feb 12 11:32	4°♋12'51		evening set	6402 Aug 10 15:41	2°♋35'26
max. Earth dist.	6397 Feb 22 23:00	6°♋35'00 6.27198 AU				
				conjunction	6402 Aug 24 08:32	5°♋45'46 0°08'59
conjunction	6397 Feb 25 05:08	7°♋05'44 -0°10'22		minimum elong	6402 Aug 24 08:31	5°♋45'46 0°08'58
minimum elong	6397 Feb 25 05:07	7°♋05'43 0°10'21		behind sun begin	6402 Aug 24 01:25	5°♋41'40
behind sun begin	6397 Feb 24 22:47	7°♋02'08		behind sun end	6402 Aug 24 15:38	5°♋49'52
behind sun end	6397 Feb 25 11:27	7°♋09'18		max. Earth dist.	6402 Aug 26 19:18	6°♋19'50 6.09974 AU
morning rise	6397 Mar 09 21:57	9°♋58'30		morning rise	6402 Sep 07 02:16	8°♋56'13
retrograde	6397 Jul 12 18:52	28°♋11'12		retrograde	6403 Jan 12 13:17	28°♋00'46
opposition	6397 Sep 11 10:44	23°♋17'42 -0°36'26		min. Earth dist.	6403 Mar 11 21:35	23°♋08'24 4.18177 AU
min. Earth dist.	6397 Sep 12 22:50	23°♋06'05 4.18918 AU		opposition	6403 Mar 13 07:06	22°♋57'05 0°35'45
direct	6397 Nov 11 14:47	18°♋19'53		direct	6403 May 11 16:58	17°♋57'11
	6398 Feb 13 13:46	0°♌			6403 Aug 16 08:45	0°♌
evening set	6398 Mar 17 04:45	7°♌06'13		evening set	6403 Sep 15 04:18	6°♌25'37
max. Earth dist.	6398 Mar 28 06:55	9°♌42'24 6.10695 AU				
				conjunction	6403 Sep 28 18:28	9°♌27'26 0°36'54
conjunction	6398 Mar 29 23:51	10°♌06'28 -0°37'25		minimum elong	6403 Sep 28 18:27	9°♌27'25 0°36'54
minimum elong	6398 Mar 29 23:49	10°♌06'28 0°37'25		max. Earth dist.	6403 Sep 30 13:56	9°♌51'41 6.26492 AU
morning rise	6398 Apr 11 19:31	13°♌07'21		morning rise	6403 Oct 12 07:55	12°♌28'35
	6398 Jul 08 03:50	0°♍			6404 Jan 29 11:31	0°♍
retrograde	6398 Aug 18 07:15	2°♍35'23		retrograde	6404 Feb 13 07:35	0°♍21'22
	6398 Sep 28 20:27	30°♌♌			6404 Feb 28 03:00	30°♌♌
opposition	6398 Oct 17 13:06	27°♌39'28 -1°10'38		opposition	6404 Apr 13 11:24	25°♌20'39 1°07'38
min. Earth dist.	6398 Oct 18 07:45	27°♌33'22 4.03059 AU		min. Earth dist.	6404 Apr 12 15:10	25°♌27'23 4.34059 AU
direct	6398 Dec 16 04:25	22°♌44'04		direct	6404 Jun 13 04:43	20°♌19'10
	6399 Feb 24 08:09	0°♍			6404 Sep 08 01:59	0°♍
evening set	6399 Apr 21 04:15	12°♍17'16		evening set	6404 Oct 17 11:37	8°♍05'54
	6399 May 02 09:35	15°♍				
				conjunction	6404 Oct 30 20:12	10°♍59'36 0°52'10
conjunction	6399 May 04 04:05	15°♍25'46 -0°52'37		minimum elong	6404 Oct 30 20:11	10°♍59'35 0°52'12
minimum elong	6399 May 04 04:05	15°♍25'45 0°52'39		max. Earth dist.	6404 Oct 31 11:21	11°♍07'50 6.40520 AU
max. Earth dist.	6399 May 03 16:54	15°♍18'59 5.96933 AU		morning rise	6404 Nov 13 02:55	13°♍52'13
morning rise	6399 May 17 05:58	18°♍35'34			6404 Nov 18 09:16	15°♍
	6399 Jul 07 01:03	0°♎			6405 Feb 18 18:00	0°♎
retrograde	6399 Sep 25 18:14	9°♎07'56		retrograde	6405 Mar 14 13:52	0°♎♎53'04
opposition	6399 Nov 24 12:44	4°♎08'35 -1°19'51			6405 Apr 07 06:12	30°♌♍
min. Earth dist.	6399 Nov 24 07:19	4°♎10'23 3.92870 AU		opposition	6405 May 14 01:54	25°♍55'57 1°18'28
	6399 Dec 31 17:41	30°♌♍		min. Earth dist.	6405 May 14 01:39	25°♍56'02 4.45318 AU
direct	6400 Jan 21 21:54	29°♌14'31		direct	6405 Jul 15 00:36	20°♍53'51
	6400 Feb 12 00:18	0°♎			6405 Oct 08 00:59	0°♎
evening set	6400 May 27 05:37	19°♎14'54		evening set	6405 Nov 17 23:03	8°♎♎15'01
				max. Earth dist.	6405 Nov 30 10:51	10°♎♎55'26 6.48188 AU

conjunction	6405 Dec 01 01:39	11° \mathbb{X} 03'22	0°52'24		6411 Jan 25 23:33	0° \mathcal{B}	
minimum elong	6405 Dec 01 01:39	11° \mathbb{X} 03'23	0°52'27		6411 Apr 15 12:35	15° \mathcal{B}	
morning rise	6405 Dec 14 01:54	13° \mathbb{X} 50'33		evening set	6411 Apr 26 07:53	17° \mathcal{B} 35'00	
	6406 Mar 27 02:12	0° \mathcal{B}					
retrograde	6406 Apr 13 06:30	0° \mathcal{B} 27'36		conjunction	6411 May 09 08:46	20° \mathcal{B} 44'31	-0°53'15
	6406 Apr 30 09:54	30° \mathcal{R} \mathbb{X}		minimum elong	6411 May 09 08:45	20° \mathcal{B} 44'30	0°53'18
opposition	6406 Jun 13 02:04	25° \mathbb{X} 33'22	1°08'22	max. Earth dist.	6411 May 09 04:03	20° \mathcal{B} 41'39	5.95715 AU
min. Earth dist.	6406 Jun 13 20:38	25° \mathbb{X} 27'24	4.49055 AU	morning rise	6411 May 22 11:38	23° \mathcal{B} 55'20	
direct	6406 Aug 14 17:24	20° \mathbb{X} 31'23			6411 Jun 17 07:30	0° \mathbb{I}	
	6406 Nov 10 01:35	0° \mathcal{B}		retrograde	6411 Oct 01 06:40	14° \mathbb{I} 32'47	
evening set	6406 Dec 18 09:21	7° \mathcal{B} 47'13		opposition	6411 Nov 29 23:30	9° \mathbb{I} 32'55	-1°18'27
max. Earth dist.	6406 Dec 29 17:12	10° \mathcal{B} 13'24	6.47710 AU	min. Earth dist.	6411 Nov 29 14:20	9° \mathbb{I} 35'58	3.92460 AU
				direct	6412 Jan 27 05:36	4° \mathbb{I} 38'53	
conjunction	6406 Dec 31 07:11	10° \mathcal{B} 33'53	0°38'48	evening set	6412 Jun 01 13:41	24° \mathbb{I} 39'04	
minimum elong	6406 Dec 31 07:12	10° \mathcal{B} 33'54	0°38'51				
morning rise	6407 Jan 13 02:30	13° \mathcal{B} 19'30		conjunction	6412 Jun 14 22:01	27° \mathbb{I} 54'02	-0°45'24
	6407 May 07 18:28	0° \approx		minimum elong	6412 Jun 14 22:02	27° \mathbb{I} 54'03	0°45'27
retrograde	6407 May 13 13:19	0° \approx 03'08		max. Earth dist.	6412 Jun 16 04:29	28° \mathbb{I} 12'36	5.91750 AU
	6407 May 19 08:37	30° \mathcal{R} \mathcal{B}			6412 Jun 23 12:56	0° \mathcal{G}	
opposition	6407 Jul 13 12:48	25° \mathcal{B} 10'33	0°40'34	morning rise	6412 Jun 28 09:19	1° \mathcal{G} 10'32	
min. Earth dist.	6407 Jul 14 22:01	24° \mathcal{B} 59'57	4.44430 AU	retrograde	6412 Nov 07 15:47	21° \mathcal{G} 59'07	
direct	6407 Sep 14 06:16	20° \mathcal{B} 09'22		min. Earth dist.	6413 Jan 04 21:19	17° \mathcal{G} 06'15	3.93841 AU
	6407 Dec 11 18:56	0° \approx		opposition	6413 Jan 06 03:55	16° \mathcal{G} 55'52	-0°50'57
evening set	6408 Jan 17 17:40	7° \approx 40'56		direct	6413 Mar 05 00:02	12° \mathcal{G} 00'41	
max. Earth dist.	6408 Jan 28 06:47	10° \approx 00'04	6.39211 AU		6413 Jul 01 21:20	0° \mathcal{Q}	
				evening set	6413 Jul 09 13:01	1° \mathcal{Q} 48'35	
conjunction	6408 Jan 30 12:14	10° \approx 29'33	0°14'41				
minimum elong	6408 Jan 30 12:15	10° \approx 29'34	0°14'43	conjunction	6413 Jul 23 03:57	5° \mathcal{Q} 03'32	-0°19'18
behind sun begin	6408 Jan 30 08:51	10° \approx 27'42		minimum elong	6413 Jul 23 03:58	5° \mathcal{Q} 03'33	0°19'20
behind sun end	6408 Jan 30 15:39	10° \approx 31'26		max. Earth dist.	6413 Jul 25 11:34	5° \mathcal{Q} 36'45	5.98289 AU
morning rise	6408 Feb 12 05:16	13° \approx 17'36		morning rise	6413 Aug 05 21:03	8° \mathcal{Q} 19'23	
	6408 Feb 20 00:56	15° \approx			6413 Sep 03 23:22	15° \mathcal{Q}	
	6408 May 24 05:26	0° \mathcal{H}		retrograde	6413 Dec 14 04:35	28° \mathcal{Q} 24'45	
retrograde	6408 Jun 13 12:11	0° \mathcal{H} 38'03		min. Earth dist.	6414 Feb 10 03:50	23° \mathcal{Q} 32'51	4.04729 AU
	6408 Jul 03 17:55	30° \mathcal{R} \approx		opposition	6414 Feb 11 17:19	23° \mathcal{Q} 20'06	-0°04'05
opposition	6408 Aug 13 09:23	25° \approx 45'34	0°00'37	asc. node	6414 Mar 16 19:27	19° \mathcal{Q} 26'51	
min. Earth dist.	6408 Aug 15 01:23	25° \approx 32'47	4.32507 AU	direct	6414 Apr 11 03:21	18° \mathcal{Q} 22'20	
desc. node	6408 Aug 18 23:50	25° \approx 02'43			6414 Jul 12 17:30	0° \mathcal{P}	
direct	6408 Oct 14 13:10	20° \approx 45'51		evening set	6414 Aug 15 16:17	7° \mathcal{P} 31'10	
	6409 Jan 06 07:43	0° \mathcal{H}					
evening set	6409 Feb 16 23:46	8° \mathcal{H} 52'26		conjunction	6414 Aug 29 09:01	10° \mathcal{P} 40'19	0°13'22
max. Earth dist.	6409 Feb 27 12:19	11° \mathcal{H} 15'58	6.24748 AU	minimum elong	6414 Aug 29 09:00	10° \mathcal{P} 40'18	0°13'21
				behind sun begin	6414 Aug 29 04:23	10° \mathcal{P} 37'40	
conjunction	6409 Mar 01 17:32	11° \mathcal{H} 46'19	-0°14'33	behind sun end	6414 Aug 29 13:37	10° \mathcal{P} 42'57	
minimum elong	6409 Mar 01 17:32	11° \mathcal{H} 46'19	0°14'32	max. Earth dist.	6414 Aug 31 19:03	11° \mathcal{P} 13'44	6.12439 AU
behind sun begin	6409 Mar 01 13:51	11° \mathcal{H} 44'14		morning rise	6414 Sep 12 02:23	13° \mathcal{P} 49'27	
behind sun end	6409 Mar 01 21:12	11° \mathcal{H} 48'24			6414 Dec 06 03:59	0° \mathcal{L}	
morning rise	6409 Mar 14 10:34	14° \mathcal{H} 40'11		retrograde	6415 Jan 17 00:32	2° \mathcal{L} 42'52	
	6409 Jun 02 13:00	0° \mathcal{Y}			6415 Feb 27 19:09	30° \mathcal{R} \mathcal{P}	
retrograde	6409 Jul 17 18:46	3° \mathcal{Y} 03'33		min. Earth dist.	6415 Mar 16 11:41	27° \mathcal{P} 50'34	4.20615 AU
	6409 Sep 01 19:20	30° \mathcal{R} \mathcal{H}		opposition	6415 Mar 17 20:20	27° \mathcal{P} 39'34	0°41'15
opposition	6409 Sep 16 10:04	28° \mathcal{H} 09'48	-0°42'14	direct	6415 May 16 09:36	22° \mathcal{P} 39'25	
min. Earth dist.	6409 Sep 17 19:30	27° \mathcal{H} 59'01	4.16437 AU		6415 Jul 28 01:25	0° \mathcal{L}	
direct	6409 Nov 16 08:00	23° \mathcal{H} 12'23		evening set	6415 Sep 19 21:04	11° \mathcal{L} 01'09	
	6410 Jan 24 06:31	0° \mathcal{Y}					
evening set	6410 Mar 22 00:52	12° \mathcal{Y} 06'07		conjunction	6415 Oct 03 10:29	14° \mathcal{L} 01'43	0°39'51
max. Earth dist.	6410 Apr 02 07:21	14° \mathcal{Y} 45'39	6.08414 AU	minimum elong	6415 Oct 03 10:27	14° \mathcal{L} 01'42	0°39'52
				max. Earth dist.	6415 Oct 05 00:53	14° \mathcal{L} 23'04	6.28706 AU
conjunction	6410 Apr 03 20:21	15° \mathcal{Y} 07'32	-0°40'33	morning rise	6415 Oct 16 23:07	17° \mathcal{L} 01'35	
minimum elong	6410 Apr 03 20:19	15° \mathcal{Y} 07'32	0°40'33		6415 Dec 22 09:50	0° \mathcal{M}	
morning rise	6410 Apr 16 16:42	18° \mathcal{Y} 09'42		retrograde	6416 Feb 17 14:30	4° \mathcal{M} 46'02	
	6410 Jun 10 05:47	0° \mathcal{B}			6416 Apr 15 23:40	30° \mathcal{R} \mathcal{L}	
retrograde	6410 Aug 23 16:50	7° \mathcal{B} 48'15		opposition	6416 Apr 17 18:18	29° \mathcal{L} 45'52	1°10'25
opposition	6410 Oct 22 20:33	2° \mathcal{B} 51'53	-1°13'47	min. Earth dist.	6416 Apr 17 01:48	29° \mathcal{L} 51'20	4.35892 AU
min. Earth dist.	6410 Oct 23 12:11	2° \mathcal{B} 46'45	4.01210 AU	direct	6416 Jun 17 16:50	24° \mathcal{L} 44'16	
	6410 Nov 15 04:34	30° \mathcal{R} \mathcal{Y}			6416 Aug 18 07:16	0° \mathcal{M}	
direct	6410 Dec 21 07:42	27° \mathcal{Y} 56'45		evening set	6416 Oct 21 21:46	12° \mathcal{M} 26'51	

	6416 Nov 02 17:12	15°♍	direct	6421 Nov 21 03:27	28°♏04'54	
				6421 Dec 26 05:38	0°♑	
conjunction	6416 Nov 04 05:37	15°♍19'43 0°53'05	evening set	6422 Mar 26 20:06	17°♑04'46	
minimum elong	6416 Nov 04 05:36	15°♍19'43 0°53'06	max. Earth dist.	6422 Apr 07 07:36	19°♑47'54	6.06483 AU
max. Earth dist.	6416 Nov 04 16:49	15°♍25'47 6.41843 AU				
morning rise	6416 Nov 17 11:23	18°♍11'28	conjunction	6422 Apr 08 16:12	20°♑07'16 -0°43'21	
	6417 Jan 17 16:01	0°♊	minimum elong	6422 Apr 08 16:11	20°♑07'15 0°43'21	
retrograde	6417 Mar 18 16:02	5°♊08'04	morning rise	6422 Apr 21 13:09	23°♑10'34	
opposition	6417 May 18 05:41	0°♊11'27 1°18'16		6422 May 21 08:03	0°♋	
min. Earth dist.	6417 May 18 07:36	0°♊10'50 4.46087 AU	retrograde	6422 Aug 28 23:54	12°♋58'11	
	6417 May 19 16:51	30°♋♍	opposition	6422 Oct 28 02:28	8°♋01'23 -1°16'18	
direct	6417 Jul 19 05:50	25°♍09'22	min. Earth dist.	6422 Oct 28 14:53	7°♋57'19 3.99694 AU	
	6417 Sep 17 00:06	0°♊	direct	6422 Dec 26 08:41	3°♋06'34	
evening set	6417 Nov 22 05:21	12°♊29'30		6423 Mar 28 19:10	15°♋	
			evening set	6423 May 01 10:00	22°♋48'48	
conjunction	6417 Dec 05 07:16	15°♊17'32 0°51'16				
minimum elong	6417 Dec 05 07:17	15°♊17'33 0°51'19	conjunction	6423 May 14 11:37	25°♋59'09 -0°53'27	
max. Earth dist.	6417 Dec 04 13:11	15°♊07'50 6.48366 AU	minimum elong	6423 May 14 11:37	25°♋59'09 0°53'28	
morning rise	6417 Dec 18 06:44	18°♊04'23	max. Earth dist.	6423 May 14 10:24	25°♋58'25 5.94737 AU	
	6418 Feb 19 01:38	0°♋	morning rise	6423 May 27 15:41	29°♋10'57	
retrograde	6418 Apr 17 11:15	4°♋41'27		6423 May 31 01:06	0°♌	
	6418 Jun 15 16:19	30°♋♊	retrograde	6423 Oct 06 14:36	19°♌52'34	
opposition	6418 Jun 17 06:51	29°♊47'39 1°05'26	opposition	6423 Dec 05 07:21	14°♌52'10 -1°16'23	
min. Earth dist.	6418 Jun 18 04:08	29°♊40'49 4.48647 AU	min. Earth dist.	6423 Dec 04 18:24	14°♌56'31 3.92141 AU	
direct	6418 Aug 18 23:28	24°♊45'49	direct	6424 Feb 01 11:03	9°♌58'04	
	6418 Oct 20 12:08	0°♋	evening set	6424 Jun 06 19:42	29°♌58'13	
evening set	6418 Dec 22 14:46	12°♋03'29		6424 Jun 06 22:39	0°♍	
max. Earth dist.	6419 Jan 02 18:15	14°♋27'44 6.46743 AU				
conjunction	6419 Jan 04 11:58	14°♋50'19 0°35'57	conjunction	6424 Jun 20 05:12	3°♍13'32 -0°42'38	
minimum elong	6419 Jan 04 12:00	14°♋50'19 0°35'59	minimum elong	6424 Jun 20 05:14	3°♍13'33 0°42'41	
morning rise	6419 Jan 17 07:02	17°♋36'11	max. Earth dist.	6424 Jun 21 16:46	3°♍35'11 5.92130 AU	
	6419 Mar 23 11:55	0°♎	morning rise	6424 Jul 03 17:22	6°♍30'16	
retrograde	6419 May 17 22:57	4°♎24'01	retrograde	6424 Nov 12 21:05	27°♍15'35	
	6419 Jul 14 04:25	30°♋♋	min. Earth dist.	6425 Jan 10 01:03	22°♍22'38 3.94865 AU	
opposition	6419 Jul 17 21:46	29°♋31'32 0°35'30	opposition	6425 Jan 11 08:22	22°♍11'59 -0°45'05	
min. Earth dist.	6419 Jul 19 08:19	29°♋20'31 4.42970 AU	direct	6425 Mar 10 06:03	17°♍16'29	
direct	6419 Sep 18 13:59	24°♋30'33		6425 Jun 14 06:51	0°♎	
	6419 Nov 21 06:04	0°♎	evening set	6425 Jul 14 18:13	7°♎00'12	
evening set	6420 Jan 22 01:20	12°♎06'31	conjunction	6425 Jul 28 09:45	10°♎14'41 -0°14'49	
max. Earth dist.	6420 Feb 01 14:58	14°♎26'29 6.37376 AU	minimum elong	6425 Jul 28 09:45	10°♎14'41 0°14'52	
conjunction	6420 Feb 03 19:49	14°♎55'46 0°10'43	behind sun begin	6425 Jul 28 06:43	10°♎12'53	
minimum elong	6420 Feb 03 19:50	14°♎55'47 0°10'46	behind sun end	6425 Jul 28 12:47	10°♎16'29	
behind sun begin	6420 Feb 03 13:42	14°♎52'24	max. Earth dist.	6425 Jul 30 19:18	10°♎48'53 5.99843 AU	
behind sun end	6420 Feb 04 01:58	14°♎59'09	morning rise	6425 Aug 11 03:17	13°♎29'57	
	6420 Feb 04 03:29	15°♎		6425 Aug 17 12:53	15°♎	
morning rise	6420 Feb 16 12:33	17°♎44'28	retrograde	6425 Nov 01 20:12	0°♏	
	6420 Apr 18 15:05	0°♏	asc. node	6425 Dec 19 00:52	3°♏26'35	
retrograde	6420 Jun 18 03:29	5°♏12'32		6426 Jan 24 23:31	1°♏15'21	
desc. node	6420 Jun 28 12:37	5°♏02'30	min. Earth dist.	6426 Feb 04 09:13	30°♋♎	
opposition	6420 Aug 18 00:50	0°♏20'00 -0°05'32	opposition	6426 Feb 15 00:14	28°♎34'57 4.06642 AU	
min. Earth dist.	6420 Aug 19 15:56	0°♏07'30 4.30413 AU	direct	6426 Feb 16 14:23	28°♎21'59 0°02'46	
	6420 Aug 20 15:27	30°♋♎		6426 Apr 16 02:39	23°♎23'51	
direct	6420 Oct 19 00:25	25°♎20'39	evening set	6426 Jun 22 02:32	0°♏	
	6420 Dec 15 06:09	0°♏		6426 Aug 20 16:41	12°♏26'42	
evening set	6421 Feb 21 12:36	13°♏33'15	conjunction	6426 Sep 03 09:07	15°♏34'47 0°17'39	
max. Earth dist.	6421 Mar 04 02:08	15°♏58'07 6.22551 AU	minimum elong	6426 Sep 03 09:05	15°♏34'47 0°17'38	
conjunction	6421 Mar 06 06:16	16°♏28'01 -0°18'37	max. Earth dist.	6426 Sep 05 15:52	16°♏06'11 6.14526 AU	
minimum elong	6421 Mar 06 06:15	16°♏28'01 0°18'37	morning rise	6426 Sep 17 02:10	18°♏42'48	
morning rise	6421 Mar 18 23:39	19°♏22'54		6426 Nov 09 23:19	0°♐	
	6421 May 08 00:44	0°♑	retrograde	6427 Jan 21 13:45	7°♐26'39	
retrograde	6421 Jul 22 20:16	7°♑56'06	min. Earth dist.	6427 Mar 21 03:51	2°♐33'47 4.22676 AU	
opposition	6421 Sep 21 09:32	3°♑02'01 -0°47'44	opposition	6427 Mar 22 09:56	2°♐23'39 0°46'31	
min. Earth dist.	6421 Sep 22 17:14	2°♑51'46 4.14280 AU	direct	6427 Apr 10 00:34	30°♋♏	
	6421 Oct 16 16:16	30°♋♏		6427 May 21 04:14	27°♏23'11	
				6427 Jul 01 15:00	0°♐	

evening set	6427 Sep 24 14:47	15°♏39'31			6432 Oct 13 18:29	30°♏	
			direct		6432 Oct 23 12:07	29°♏51'08	
conjunction	6427 Oct 08 03:42	18°♏39'03 0°42'35			6432 Nov 02 06:10	0°♏	
minimum elong	6427 Oct 08 03:40	18°♏39'02 0°42'37		evening set	6433 Feb 25 22:47	18°♏07'33	
max. Earth dist.	6427 Oct 09 15:56	18°♏59'06 6.30590 AU		max. Earth dist.	6433 Mar 08 15:08	20°♏34'30	6.20944 AU
morning rise	6427 Oct 21 15:21	21°♏37'44					
	6427 Nov 30 19:46	0°♏		conjunction	6433 Mar 10 16:38	21°♏03'00 -0°22'25	
retrograde	6428 Feb 21 20:46	9°♏14'45		minimum elong	6433 Mar 10 16:37	21°♏02'59 0°22'25	
min. Earth dist.	6428 Apr 21 11:27	4°♏20'02 4.37480 AU		morning rise	6433 Mar 23 10:02	23°♏58'35	
opposition	6428 Apr 22 02:26	4°♏15'05 1°12'50			6433 Apr 19 10:55	0°♏	
	6428 May 30 20:18	30°♏		retrograde	6433 Jul 27 16:40	12°♏39'32	
direct	6428 Jun 22 03:28	29°♏13'24		opposition	6433 Sep 26 05:28	7°♏45'10 -0°52'38	
	6428 Jul 14 18:23	0°♏		min. Earth dist.	6433 Sep 27 11:37	7°♏35'25 4.12663 AU	
	6428 Oct 17 14:46	15°♏		direct	6433 Nov 25 18:53	2°♏48'24	
evening set	6428 Oct 26 09:42	16°♏52'26		evening set	6434 Mar 31 11:43	21°♏52'41	
			max. Earth dist.	6434 Apr 12 01:14	24°♏37'35	6.04985 AU	
conjunction	6428 Nov 08 16:36	19°♏44'30 0°53'43					
minimum elong	6428 Nov 08 16:35	19°♏44'30 0°53'45		conjunction	6434 Apr 13 08:07	24°♏56'00 -0°45'41	
max. Earth dist.	6428 Nov 08 22:51	19°♏47'53 6.43034 AU		minimum elong	6434 Apr 13 08:05	24°♏55'59 0°45'43	
morning rise	6428 Nov 21 21:34	22°♏35'26		morning rise	6434 Apr 26 05:53	28°♏00'16	
	6428 Dec 28 00:31	0°♏			6434 May 04 17:09	0°♏	
retrograde	6429 Mar 22 22:29	9°♏28'03			6434 Jul 21 08:45	15°♏	
opposition	6429 May 22 11:47	4°♏31'54 1°17'38		retrograde	6434 Sep 03 00:59	17°♏55'30	
min. Earth dist.	6429 May 22 17:00	4°♏30'13 4.46842 AU			6434 Oct 17 05:59	15°♏	
	6429 Jul 05 10:11	30°♏		opposition	6434 Nov 02 03:11	12°♏58'15 -1°18'06	
direct	6429 Jul 23 15:44	29°♏29'51		min. Earth dist.	6434 Nov 02 12:29	12°♏55'11 3.98456 AU	
	6429 Aug 10 23:47	0°♏		direct	6434 Dec 31 05:39	8°♏03'33	
evening set	6429 Nov 26 13:14	16°♏48'34			6435 Mar 09 03:15	15°♏	
			evening set	6435 May 06 07:13	27°♏49'14		
conjunction	6429 Dec 09 14:28	19°♏36'13 0°49'52		6435 May 15 06:40	0°♏		
minimum elong	6429 Dec 09 14:29	19°♏36'14 0°49'54					
max. Earth dist.	6429 Dec 08 17:30	19°♏24'58 6.48654 AU		conjunction	6435 May 19 09:57	1°♏00'28 -0°53'12	
morning rise	6429 Dec 22 13:11	22°♏22'41		minimum elong	6435 May 19 09:57	1°♏00'28 0°53'15	
	6430 Jan 29 01:29	0°♏		max. Earth dist.	6435 May 19 13:52	1°♏02'51 5.93890 AU	
retrograde	6430 Apr 21 16:20	8°♏59'14		morning rise	6435 Jun 01 14:56	4°♏13'07	
opposition	6430 Jun 21 13:18	4°♏05'40 1°02'09		retrograde	6435 Oct 11 19:46	24°♏58'39	
min. Earth dist.	6430 Jun 22 11:33	3°♏58'32 4.48499 AU		opposition	6435 Dec 10 09:59	19°♏57'51 -1°13'51	
	6430 Jul 29 03:36	30°♏		min. Earth dist.	6435 Dec 09 19:40	20°♏02'40 3.91787 AU	
direct	6430 Aug 23 05:58	29°♏03'57		direct	6436 Feb 06 11:53	15°♏03'41	
	6430 Sep 17 13:57	0°♏			6436 May 21 12:03	0°♏	
evening set	6430 Dec 26 21:13	16°♏22'15		evening set	6436 Jun 11 21:03	5°♏04'27	
max. Earth dist.	6431 Jan 06 23:45	18°♏46'12 6.46191 AU					
conjunction	6431 Jan 08 17:55	19°♏09'04 0°32'54		conjunction	6436 Jun 25 07:33	8°♏20'12 -0°39'42	
minimum elong	6431 Jan 08 17:56	19°♏09'05 0°32'57		minimum elong	6436 Jun 25 07:35	8°♏20'13 0°39'44	
morning rise	6431 Jan 21 12:21	21°♏54'57		max. Earth dist.	6436 Jun 26 22:05	8°♏43'37 5.92298 AU	
	6431 Mar 02 00:52	0°♏		morning rise	6436 Jul 08 20:52	11°♏37'21	
retrograde	6431 May 22 07:46	8°♏45'23			6436 Oct 10 11:59	0°♏	
opposition	6431 Jul 22 07:07	3°♏53'00 0°30'17		retrograde	6436 Nov 17 21:28	2°♏20'30	
min. Earth dist.	6431 Jul 23 18:41	3°♏41'40 4.42048 AU			6436 Dec 26 04:45	30°♏	
	6431 Aug 26 07:10	30°♏		min. Earth dist.	6437 Jan 14 22:55	27°♏28'03 3.95553 AU	
direct	6431 Sep 22 22:38	28°♏52'15		opposition	6437 Jan 16 08:14	27°♏16'44 -0°39'13	
	6431 Oct 20 15:29	0°♏		direct	6437 Mar 15 05:07	22°♏20'57	
	6432 Jan 19 11:10	15°♏			6437 May 25 17:56	0°♏	
evening set	6432 Jan 26 08:34	16°♏30'33		evening set	6437 Jul 19 20:12	12°♏02'23	
max. Earth dist.	6432 Feb 05 20:12	18°♏49'53 6.36144 AU			6437 Aug 01 08:14	15°♏	
conjunction	6432 Feb 08 02:36	19°♏20'08 0°06'48		conjunction	6437 Aug 02 12:12	15°♏16'35 -0°10'27	
minimum elong	6432 Feb 08 02:36	19°♏20'07 0°06'50		minimum elong	6437 Aug 02 12:13	15°♏16'35 0°10'29	
behind sun begin	6432 Feb 07 19:11	19°♏16'01		behind sun begin	6437 Aug 02 05:43	15°♏12'45	
behind sun end	6432 Feb 08 10:01	19°♏24'14		behind sun end	6437 Aug 02 18:42	15°♏20'25	
morning rise	6432 Feb 20 19:18	22°♏09'15		max. Earth dist.	6437 Aug 04 21:18	15°♏50'25 6.00983 AU	
	6432 Mar 28 23:07	0°♏		morning rise	6437 Aug 16 06:13	18°♏31'29	
desc. node	6432 May 09 18:37	6°♏50'59			6437 Oct 07 23:10	0°♏	
retrograde	6432 Jun 22 18:26	9°♏43'00		asc. node	6437 Dec 07 01:40	7°♏53'39	
opposition	6432 Aug 22 15:08	4°♏50'16 -0°11'28		retrograde	6437 Dec 23 19:32	8°♏21'27	
min. Earth dist.	6432 Aug 24 05:43	4°♏37'55 4.28933 AU		min. Earth dist.	6438 Feb 19 19:29	3°♏29'36 4.08097 AU	
			opposition	6438 Feb 21 08:44	3°♏16'55	0°09'18	

	6438 Mar 19 21:07	30° \mathbb{R} 8 \mathbb{Q}	morning rise	6444 Feb 25 02:29	26° \approx 36'47	
direct	6438 Apr 21 00:19	28° \mathbb{Q} 18'26		6444 Mar 11 13:20	0° \mathbb{H}	
	6438 May 23 08:37	0° \mathbb{M}	desc. node	6444 Mar 19 11:01	1° \mathbb{H} 40'56	
evening set	6438 Aug 25 15:07	17° \mathbb{M} 17'15	retrograde	6444 Jun 27 11:10	14° \mathbb{H} 18'13	
			opposition	6444 Aug 27 07:01	9° \mathbb{H} 25'21	-0°17'33
conjunction	6438 Sep 08 07:36	20° \mathbb{M} 24'35 0°21'40	min. Earth dist.	6444 Aug 28 21:54	9° \mathbb{H} 12'54	4.26838 AU
minimum elong	6438 Sep 08 07:35	20° \mathbb{M} 24'34 0°21'39	direct	6444 Oct 28 00:45	4° \mathbb{H} 26'30	
max. Earth dist.	6438 Sep 10 14:23	20° \mathbb{M} 55'52 6.16192 AU	evening set	6445 Mar 02 11:39	22° \mathbb{H} 49'01	
morning rise	6438 Sep 22 00:08	23° \mathbb{M} 31'38	max. Earth dist.	6445 Mar 13 04:04	25° \mathbb{H} 16'49	6.18676 AU
	6438 Oct 21 13:01	0° \mathbb{Q}				
retrograde	6439 Jan 26 01:43	12° \mathbb{Q} 07'31	conjunction	6445 Mar 15 05:32	25° \mathbb{H} 45'26	-0°26'14
opposition	6439 Mar 26 22:29	7° \mathbb{Q} 04'56 0°51'17	minimum elong	6445 Mar 15 05:30	25° \mathbb{H} 45'25	0°26'14
min. Earth dist.	6439 Mar 25 17:19	7° \mathbb{Q} 14'43 4.24398 AU	morning rise	6445 Mar 27 23:29	28° \mathbb{H} 42'10	
direct	6439 May 25 19:37	2° \mathbb{Q} 04'18		6445 Apr 02 15:16	0° \mathbb{Y}	
evening set	6439 Sep 29 07:44	20° \mathbb{Q} 16'16	retrograde	6445 Aug 01 17:18	17° \mathbb{Y} 33'29	
			opposition	6445 Oct 01 05:21	12° \mathbb{Y} 38'44	-0°57'29
conjunction	6439 Oct 12 19:49	23° \mathbb{Q} 14'48 0°44'58	min. Earth dist.	6445 Oct 02 08:52	12° \mathbb{Y} 29'47	4.10394 AU
minimum elong	6439 Oct 12 19:47	23° \mathbb{Q} 14'47 0°44'59	direct	6445 Nov 30 13:52	7° \mathbb{Y} 42'12	
max. Earth dist.	6439 Oct 14 03:46	23° \mathbb{Q} 32'26 6.32227 AU	evening set	6446 Apr 05 07:55	26° \mathbb{Y} 53'18	
morning rise	6439 Oct 26 06:50	26° \mathbb{Q} 12'30	max. Earth dist.	6446 Apr 17 03:23	29° \mathbb{Y} 42'26	6.02929 AU
	6439 Nov 12 21:26	0° \mathbb{M}				
retrograde	6440 Feb 26 04:27	13° \mathbb{M} 42'56	conjunction	6446 Apr 18 05:09	29° \mathbb{Y} 57'52	-0°47'52
opposition	6440 Apr 26 10:33	8° \mathbb{M} 43'41 1°14'43	minimum elong	6446 Apr 18 05:08	29° \mathbb{Y} 57'51	0°47'54
min. Earth dist.	6440 Apr 25 22:20	8° \mathbb{M} 47'43 4.38915 AU		6446 Apr 18 08:44	0° \mathbb{B}	
direct	6440 Jun 26 16:03	3° \mathbb{M} 41'52	morning rise	6446 May 01 03:38	3° \mathbb{B} 03'24	
	6440 Sep 30 12:21	15° \mathbb{M}		6446 Jun 24 11:12	15° \mathbb{B}	
evening set	6440 Oct 30 20:52	21° \mathbb{M} 17'28	retrograde	6446 Sep 08 11:07	23° \mathbb{B} 08'19	
			opposition	6446 Nov 07 10:05	18° \mathbb{B} 10'36	-1°19'29
conjunction	6440 Nov 13 03:07	24° \mathbb{M} 08'48 0°53'59	min. Earth dist.	6446 Nov 07 17:06	18° \mathbb{B} 08'17	3.96826 AU
minimum elong	6440 Nov 13 03:07	24° \mathbb{M} 08'48 0°54'02		6446 Dec 03 14:31	15° \mathbb{R} 8	
max. Earth dist.	6440 Nov 13 07:32	24° \mathbb{M} 11'11 6.44156 AU	direct	6447 Jan 05 08:42	13° \mathbb{B} 16'05	
morning rise	6440 Nov 26 07:01	26° \mathbb{M} 58'55		6447 Feb 06 18:23	15° \mathbb{B}	
	6440 Dec 10 13:23	0° \mathbb{X}		6447 Apr 28 12:25	0° \mathbb{I}	
retrograde	6441 Mar 27 01:44	13° \mathbb{X} 47'35	evening set	6447 May 11 11:15	3° \mathbb{I} 06'26	
opposition	6441 May 26 17:19	8° \mathbb{X} 51'47 1°16'31				
min. Earth dist.	6441 May 26 23:51	8° \mathbb{X} 49'40 4.47568 AU	conjunction	6447 May 24 14:59	6° \mathbb{I} 18'39	-0°52'33
direct	6441 Jul 27 23:00	3° \mathbb{X} 49'44	minimum elong	6447 May 24 15:00	6° \mathbb{I} 18'39	0°52'36
evening set	6441 Nov 30 20:27	21° \mathbb{X} 06'52	max. Earth dist.	6447 May 24 22:57	6° \mathbb{I} 23'31	5.92843 AU
			morning rise	6447 Jun 06 21:19	9° \mathbb{I} 32'23	
conjunction	6441 Dec 13 20:50	23° \mathbb{X} 54'07 0°48'09		6447 Oct 02 07:58	0° \mathbb{G}	
minimum elong	6441 Dec 13 20:51	23° \mathbb{X} 54'08 0°48'11	retrograde	6447 Oct 17 04:51	0° \mathbb{G} 21'51	
max. Earth dist.	6441 Dec 12 20:16	23° \mathbb{X} 40'56 6.48902 AU		6447 Nov 01 01:00	30° \mathbb{R} 11	
morning rise	6441 Dec 26 18:53	26° \mathbb{X} 40'14	opposition	6447 Dec 15 18:54	25° \mathbb{I} 20'34	-1°10'34
	6442 Jan 11 14:45	0° \mathbb{Z}	min. Earth dist.	6447 Dec 15 00:29	25° \mathbb{I} 26'46	3.91481 AU
retrograde	6442 Apr 25 22:38	13° \mathbb{Z} 16'24	direct	6448 Feb 11 17:27	20° \mathbb{I} 26'19	
opposition	6442 Jun 25 19:29	8° \mathbb{Z} 23'03 0°58'28		6448 May 02 08:24	0° \mathbb{G}	
min. Earth dist.	6442 Jun 26 20:40	8° \mathbb{Z} 14'59 4.48219 AU	evening set	6448 Jun 17 05:33	10° \mathbb{G} 27'15	
direct	6442 Aug 27 14:00	3° \mathbb{Z} 21'23				
evening set	6442 Dec 31 02:45	20° \mathbb{Z} 40'36	conjunction	6448 Jun 30 17:03	13° \mathbb{G} 43'15	-0°36'15
max. Earth dist.	6443 Jan 11 01:45	23° \mathbb{Z} 02'58 6.45369 AU	minimum elong	6448 Jun 30 17:04	13° \mathbb{G} 43'16	0°36'17
			max. Earth dist.	6448 Jul 02 10:55	14° \mathbb{G} 08'39	5.92768 AU
conjunction	6443 Jan 12 22:58	23° \mathbb{Z} 27'32 0°29'38	morning rise	6448 Jul 14 07:22	17° \mathbb{G} 00'36	
minimum elong	6443 Jan 12 22:59	23° \mathbb{Z} 27'33 0°29'41		6448 Sep 11 08:07	0° \mathbb{Q}	
morning rise	6443 Jan 25 17:03	26° \mathbb{Z} 13'36	retrograde	6448 Nov 23 02:43	7° \mathbb{Q} 39'33	
	6443 Feb 12 11:01	0° \mathbb{R}	min. Earth dist.	6449 Jan 20 02:46	2° \mathbb{Q} 47'16	3.96749 AU
retrograde	6443 May 26 17:00	13° \mathbb{R} 07'48	opposition	6449 Jan 21 13:24	2° \mathbb{Q} 35'28	-0°32'40
opposition	6443 Jul 26 16:43	8° \mathbb{R} 15'23 0°24'48		6449 Feb 10 15:58	30° \mathbb{R} 8	
min. Earth dist.	6443 Jul 28 04:44	8° \mathbb{R} 03'54 4.40711 AU	direct	6449 Mar 20 12:35	27° \mathbb{G} 39'19	
direct	6443 Sep 27 06:01	3° \mathbb{R} 14'45		6449 Apr 27 06:25	0° \mathbb{Q}	
	6444 Jan 02 20:51	15° \mathbb{R}		6449 Jul 15 09:51	15° \mathbb{Q}	
evening set	6444 Jan 30 16:05	20° \mathbb{R} 56'52	evening set	6449 Jul 25 03:09	17° \mathbb{Q} 16'06	
max. Earth dist.	6444 Feb 10 04:20	23° \mathbb{R} 17'05 6.34383 AU				
			conjunction	6449 Aug 07 19:43	20° \mathbb{Q} 29'38	-0°05'47
conjunction	6444 Feb 12 10:00	23° \mathbb{R} 47'02 0°02'44	minimum elong	6449 Aug 07 19:44	20° \mathbb{Q} 29'39	0°05'48
minimum elong	6444 Feb 12 09:59	23° \mathbb{R} 47'02 0°02'45	behind sun begin	6449 Aug 07 11:43	20° \mathbb{Q} 24'56	
behind sun begin	6444 Feb 12 02:03	23° \mathbb{R} 42'37	behind sun end	6449 Aug 08 03:44	20° \mathbb{Q} 34'21	
behind sun end	6444 Feb 12 17:56	23° \mathbb{R} 51'27	max. Earth dist.	6449 Aug 10 07:46	21° \mathbb{Q} 05'04	6.02813 AU

morning rise	6449 Aug 21 13:46	23° Ω 43'42			6455 Dec 15 09:15	15° \approx	
	6449 Sep 18 04:35	0° Π		desc. node	6456 Jan 28 19:31	23° \approx 59'56	
asc. node	6449 Oct 16 09:41	5° Π 43'43		evening set	6456 Feb 03 23:06	25° \approx 21'34	
retrograde	6449 Dec 28 16:21	13° Π 23'39		max. Earth dist.	6456 Feb 14 09:19	27° \approx 41'24	6.32108 AU
min. Earth dist.	6450 Feb 24 16:54	8° Π 31'53	4.10361 AU				
opposition	6450 Feb 26 06:08	8° Π 19'14	0°16'01	conjunction	6456 Feb 16 16:54	28° \approx 12'35	-0°01'26
direct	6450 Apr 26 01:08	3° Π 20'25		minimum elong	6456 Feb 16 16:54	28° \approx 12'35	0°01'25
evening set	6450 Aug 30 15:49	22° Π 11'58		behind sun begin	6456 Feb 16 08:55	28° \approx 08'08	
				behind sun end	6456 Feb 17 00:53	28° \approx 17'02	
conjunction	6450 Sep 13 07:41	25° Π 17'57	0°25'39		6456 Feb 24 16:24	0° \mathbb{H}	
minimum elong	6450 Sep 13 07:39	25° Π 17'56	0°25'39	morning rise	6456 Feb 29 09:34	1° \mathbb{H} 03'19	
max. Earth dist.	6450 Sep 15 11:45	25° Π 47'31	6.18679 AU	retrograde	6456 Jul 02 04:21	18° \mathbb{H} 54'33	
morning rise	6450 Sep 26 23:44	28° Π 23'37		opposition	6456 Aug 31 23:37	14° \mathbb{H} 01'29	-0°23'33
	6450 Oct 04 03:55	0° Ω		min. Earth dist.	6456 Sep 02 13:17	13° \mathbb{H} 49'24	4.24221 AU
retrograde	6451 Jan 30 12:11	16° Ω 48'31		direct	6456 Nov 01 12:04	9° \mathbb{H} 02'56	
min. Earth dist.	6451 Mar 30 07:52	11° Ω 55'27	4.26887 AU	evening set	6457 Mar 07 01:36	27° \mathbb{H} 33'38	
opposition	6451 Mar 31 11:17	11° Ω 46'15	0°55'48		6457 Mar 17 14:04	0° Υ	
direct	6451 May 30 13:24	6° Ω 45'22		max. Earth dist.	6457 Mar 17 21:42	0° Υ 04'26	6.15935 AU
evening set	6451 Oct 03 23:57	24° Ω 50'22					
conjunction	6451 Oct 17 11:19	27° Ω 47'37	0°47'06	conjunction	6457 Mar 19 19:54	0° Υ 31'20	-0°29'54
minimum elong	6451 Oct 17 11:18	27° Ω 47'37	0°47'07	minimum elong	6457 Mar 19 19:53	0° Υ 31'20	0°29'55
max. Earth dist.	6451 Oct 18 16:47	28° Ω 03'48	6.34529 AU	morning rise	6457 Apr 01 14:14	3° Υ 29'25	
	6451 Oct 27 12:39	0° \mathbb{M}		retrograde	6457 Aug 06 22:53	22° Υ 33'09	
morning rise	6451 Oct 30 21:07	0° \mathbb{M} 43'54		opposition	6457 Oct 06 07:42	17° Υ 38'08	-1°02'00
	6452 Jan 15 21:16	15° \mathbb{M}		min. Earth dist.	6457 Oct 07 09:46	17° Υ 29'39	4.07756 AU
retrograde	6452 Mar 01 08:45	18° \mathbb{M} 05'46		direct	6457 Dec 05 11:39	12° Υ 42'00	
	6452 Apr 16 00:31	15° $\mathbb{R}\mathbb{M}$			6458 Apr 01 18:26	0° \mathbb{B}	
opposition	6452 Apr 30 16:53	13° \mathbb{M} 07'02	1°16'11	evening set	6458 Apr 10 07:17	2° \mathbb{B} 01'24	
min. Earth dist.	6452 Apr 30 06:59	13° \mathbb{M} 10'17	4.40858 AU	max. Earth dist.	6458 Apr 22 06:57	4° \mathbb{B} 53'56	6.00643 AU
direct	6452 Jul 01 02:51	8° \mathbb{M} 05'09					
	6452 Sep 11 09:24	15° \mathbb{M}		conjunction	6458 Apr 23 05:15	5° \mathbb{B} 07'21	-0°49'43
evening set	6452 Nov 04 05:48	25° \mathbb{M} 35'56		minimum elong	6458 Apr 23 05:14	5° \mathbb{B} 07'20	0°49'44
conjunction	6452 Nov 17 11:00	28° \mathbb{M} 26'19	0°53'59	morning rise	6458 May 06 04:53	8° \mathbb{B} 14'25	
minimum elong	6452 Nov 17 11:00	28° \mathbb{M} 26'19	0°54'02		6458 Jun 04 07:49	15° \mathbb{B}	
max. Earth dist.	6452 Nov 17 09:39	28° \mathbb{M} 25'35	6.45579 AU	retrograde	6458 Sep 13 22:07	28° \mathbb{B} 29'40	
	6452 Nov 24 17:08	0° \mathbb{X}		opposition	6458 Nov 12 19:51	23° \mathbb{B} 31'29	-1°20'12
morning rise	6452 Nov 30 14:07	1° \mathbb{X} 15'33		min. Earth dist.	6458 Nov 12 22:01	23° \mathbb{B} 30'46	3.95163 AU
retrograde	6453 Mar 31 04:32	17° \mathbb{X} 59'51		direct	6459 Jan 10 12:25	18° \mathbb{B} 37'11	
opposition	6453 May 30 20:46	13° \mathbb{X} 04'26	1°15'03		6459 Apr 10 01:43	0° \mathbb{I}	
min. Earth dist.	6453 May 31 06:58	13° \mathbb{X} 01'08	4.48392 AU	evening set	6459 May 16 18:50	8° \mathbb{I} 32'20	
direct	6453 Aug 01 06:03	8° \mathbb{X} 02'20		conjunction	6459 May 29 23:43	11° \mathbb{I} 45'32	-0°51'25
evening set	6453 Dec 05 00:42	25° \mathbb{X} 17'51		minimum elong	6459 May 29 23:44	11° \mathbb{I} 45'33	0°51'28
max. Earth dist.	6453 Dec 16 20:59	27° \mathbb{X} 50'00	6.49053 AU	max. Earth dist.	6459 May 30 13:40	11° \mathbb{I} 54'04	5.91976 AU
				morning rise	6459 Jun 12 07:16	15° \mathbb{I} 00'15	
conjunction	6453 Dec 18 00:33	28° \mathbb{X} 04'47	0°46'13		6459 Aug 20 20:57	0° \mathbb{E}	
minimum elong	6453 Dec 18 00:34	28° \mathbb{X} 04'48	0°46'16	retrograde	6459 Oct 22 17:19	5° \mathbb{E} 52'27	
	6453 Dec 26 23:11	0° \mathbb{Z}		min. Earth dist.	6459 Dec 20 08:52	0° \mathbb{E} 57'53	3.91514 AU
morning rise	6453 Dec 30 21:47	0° \mathbb{Z} 50'35		opposition	6459 Dec 21 06:20	0° \mathbb{E} 50'38	-1°06'33
retrograde	6454 Apr 30 00:59	17° \mathbb{Z} 27'07			6459 Dec 27 13:01	30° $\mathbb{R}\mathbb{I}$	
opposition	6454 Jun 29 23:26	12° \mathbb{Z} 33'58	0°54'35	direct	6460 Feb 17 04:24	25° \mathbb{I} 56'13	
min. Earth dist.	6454 Jul 01 02:08	12° \mathbb{Z} 25'26	4.47694 AU		6460 Apr 07 08:51	0° \mathbb{E}	
direct	6454 Aug 31 17:24	7° \mathbb{Z} 32'25		evening set	6460 Jun 22 16:06	15° \mathbb{E} 55'38	
evening set	6455 Jan 04 06:34	24° \mathbb{Z} 53'40		conjunction	6460 Jul 06 04:42	19° \mathbb{E} 11'41	-0°32'25
max. Earth dist.	6455 Jan 15 02:37	27° \mathbb{Z} 14'52	6.44189 AU	minimum elong	6460 Jul 06 04:44	19° \mathbb{E} 11'42	0°32'29
				max. Earth dist.	6460 Jul 08 04:26	19° \mathbb{E} 40'33	5.93693 AU
conjunction	6455 Jan 17 02:17	27° \mathbb{Z} 40'52	0°26'17	morning rise	6460 Jul 19 19:46	22° \mathbb{E} 28'56	
minimum elong	6455 Jan 17 02:18	27° \mathbb{Z} 40'52	0°26'20		6460 Aug 21 07:12	0° Ω	
	6455 Jan 27 17:47	0° \approx		retrograde	6460 Nov 28 09:00	13° Ω 01'16	
morning rise	6455 Jan 29 20:02	0° \approx 27'15		min. Earth dist.	6461 Jan 25 07:05	8° Ω 09'14	3.98435 AU
	6455 Apr 20 12:18	15° \approx		opposition	6461 Jan 26 19:10	7° Ω 56'57	-0°25'49
retrograde	6455 May 31 03:01	17° \approx 26'41		direct	6461 Mar 25 19:53	3° Ω 00'27	
	6455 Jul 11 01:33	15° $\mathbb{R}\approx$			6461 Jun 27 04:10	15° Ω	
opposition	6455 Jul 31 01:19	12° \approx 34'20	0°19'16	evening set	6461 Jul 30 10:34	22° Ω 30'45	
min. Earth dist.	6455 Aug 01 15:46	12° \approx 22'05	4.38924 AU				
direct	6455 Oct 01 13:39	7° \approx 33'53		conjunction	6461 Aug 13 03:11	25° Ω 43'17	-0°01'01

minimum elong	6461 Aug 13 03:09	25° Ω 43'17	0°01'03	opposition	6467 Aug 04 13:21	17° \approx 00'58	0°13'26
behind sun begin	6461 Aug 12 18:45	25° Ω 38'22		min. Earth dist.	6467 Aug 06 03:37	16° \approx 48'45	4.36966 AU
behind sun end	6461 Aug 13 11:33	25° Ω 48'11			6467 Aug 20 19:39	15° \approx	
max. Earth dist.	6461 Aug 15 14:51	26° Ω 18'17	6.05050 AU	direct	6467 Oct 05 22:05	12° \approx 00'44	
asc. node	6461 Aug 25 02:10	28° Ω 31'08			6467 Nov 20 13:07	15° \approx	
morning rise	6461 Aug 26 21:21	28° Ω 56'15		desc. node	6467 Dec 07 22:37	17° \approx 28'48	
	6461 Aug 31 11:24	0° \mathbb{M}		evening set	6468 Feb 08 09:16	29° \approx 54'15	
retrograde	6462 Jan 02 09:59	18° \mathbb{M} 24'45			6468 Feb 08 19:34	0° \mathbb{H}	
min. Earth dist.	6462 Mar 01 13:31	13° \mathbb{M} 33'00	4.12890 AU	max. Earth dist.	6468 Feb 18 20:13	2° \mathbb{H} 15'14	6.29803 AU
opposition	6462 Mar 03 02:26	13° \mathbb{M} 20'28	0°22'34				
direct	6462 May 01 01:27	8° \mathbb{M} 21'16		conjunction	6468 Feb 21 02:59	2° \mathbb{H} 46'08	-0°05'39
evening set	6462 Sep 04 15:24	27° \mathbb{M} 05'00		minimum elong	6468 Feb 21 02:58	2° \mathbb{H} 46'08	0°05'37
	6462 Sep 17 13:50	0° Ω		behind sun begin	6468 Feb 20 19:18	2° \mathbb{H} 41'50	
				behind sun end	6468 Feb 21 10:37	2° \mathbb{H} 50'26	
conjunction	6462 Sep 18 06:52	0° Ω 09'37	0°29'28	morning rise	6468 Mar 04 19:41	5° \mathbb{H} 37'48	
minimum elong	6462 Sep 18 06:51	0° Ω 09'36	0°29'28	retrograde	6468 Jul 07 02:55	23° \mathbb{H} 38'57	
max. Earth dist.	6462 Sep 20 08:42	0° Ω 37'46	6.21285 AU	opposition	6468 Sep 05 19:58	18° \mathbb{H} 45'45	-0°29'38
morning rise	6462 Oct 01 22:02	3° Ω 13'47		min. Earth dist.	6468 Sep 07 09:35	18° \mathbb{H} 33'39	4.21719 AU
retrograde	6463 Feb 03 23:19	21° Ω 27'47		direct	6468 Nov 06 05:22	13° \mathbb{H} 47'32	
opposition	6463 Apr 04 23:15	16° Ω 26'01	0°59'57		6469 Mar 01 05:15	0° \mathbb{Y}	
min. Earth dist.	6463 Apr 03 22:31	16° Ω 34'16	4.29332 AU	evening set	6469 Mar 11 18:50	2° \mathbb{Y} 25'45	
direct	6463 Jun 04 07:15	11° Ω 24'55		max. Earth dist.	6469 Mar 22 17:04	4° \mathbb{Y} 58'40	6.13465 AU
evening set	6463 Oct 08 15:10	29° Ω 23'23					
	6463 Oct 11 10:28	0° \mathbb{M}		conjunction	6469 Mar 24 13:28	5° \mathbb{Y} 24'38	-0°33'30
				minimum elong	6469 Mar 24 13:26	5° \mathbb{Y} 24'37	0°33'31
conjunction	6463 Oct 22 01:36	2° \mathbb{M} 19'24	0°48'58	morning rise	6469 Apr 06 08:25	8° \mathbb{Y} 24'01	
minimum elong	6463 Oct 22 01:34	2° \mathbb{M} 19'24	0°49'00	retrograde	6469 Aug 12 04:42	27° \mathbb{Y} 38'57	
max. Earth dist.	6463 Oct 23 02:15	2° \mathbb{M} 32'53	6.36619 AU	opposition	6469 Oct 11 12:41	22° \mathbb{Y} 43'35	-1°06'12
morning rise	6463 Nov 04 10:33	5° \mathbb{M} 14'27		min. Earth dist.	6469 Oct 12 10:41	22° \mathbb{Y} 36'24	4.05567 AU
	6463 Dec 22 17:43	15° \mathbb{M}		direct	6469 Dec 10 10:15	17° \mathbb{Y} 47'49	
retrograde	6464 Mar 05 13:07	22° \mathbb{M} 28'56			6470 Mar 15 01:58	0° \mathbb{B}	
opposition	6464 May 04 23:18	17° \mathbb{M} 30'40	1°17'16	evening set	6470 Apr 15 08:37	7° \mathbb{B} 13'38	
min. Earth dist.	6464 May 04 16:13	17° \mathbb{M} 32'59	4.42476 AU				
	6464 May 25 01:45	15° $\mathbb{R}\mathbb{M}$		conjunction	6470 Apr 28 07:22	10° \mathbb{B} 20'42	-0°51'13
direct	6464 Jul 05 13:11	12° \mathbb{M} 28'39		minimum elong	6470 Apr 28 07:21	10° \mathbb{B} 20'42	0°51'15
	6464 Aug 16 10:17	15° \mathbb{M}		max. Earth dist.	6470 Apr 27 14:47	10° \mathbb{B} 10'42	5.98956 AU
evening set	6464 Nov 08 14:39	29° \mathbb{M} 55'44		morning rise	6470 May 11 07:56	13° \mathbb{B} 28'59	
	6464 Nov 08 22:39	0° \mathbb{X}			6470 May 17 16:24	15° \mathbb{B}	
					6470 Jul 30 23:31	0° \mathbb{I}	
conjunction	6464 Nov 21 19:08	2° \mathbb{X} 45'24	0°53'43	retrograde	6470 Sep 19 10:17	3° \mathbb{I} 51'59	
minimum elong	6464 Nov 21 19:08	2° \mathbb{X} 45'24	0°53'46		6470 Nov 09 19:54	30° $\mathbb{R}\mathbb{B}$	
max. Earth dist.	6464 Nov 21 14:37	2° \mathbb{X} 42'58	6.46622 AU	opposition	6470 Nov 18 06:24	28° \mathbb{B} 53'15	-1°20'17
morning rise	6464 Dec 04 21:10	5° \mathbb{X} 33'51		min. Earth dist.	6470 Nov 18 05:13	28° \mathbb{B} 53'39	3.94180 AU
retrograde	6465 Apr 04 07:20	22° \mathbb{X} 15'05		direct	6471 Jan 15 20:11	23° \mathbb{B} 59'06	
opposition	6465 Jun 04 01:12	17° \mathbb{X} 20'05	1°13'13		6471 Mar 19 04:48	0° \mathbb{I}	
min. Earth dist.	6465 Jun 04 13:49	17° \mathbb{X} 16'01	4.48813 AU	evening set	6471 May 22 02:05	13° \mathbb{I} 56'08	
direct	6465 Aug 05 12:44	12° \mathbb{X} 18'03					
evening set	6465 Dec 09 06:31	29° \mathbb{X} 33'05		conjunction	6471 Jun 04 08:07	17° \mathbb{I} 09'57	-0°49'54
	6465 Dec 11 08:58	0° \mathbb{B}		minimum elong	6471 Jun 04 08:08	17° \mathbb{I} 09'58	0°49'56
max. Earth dist.	6465 Dec 20 21:01	2° \mathbb{B} 02'21	6.48816 AU	max. Earth dist.	6471 Jun 05 04:47	17° \mathbb{I} 22'34	5.91802 AU
				morning rise	6471 Jun 17 16:43	20° \mathbb{I} 25'14	
conjunction	6465 Dec 22 05:33	2° \mathbb{B} 19'50	0°44'03		6471 Jul 29 06:19	0° \mathbb{B}	
minimum elong	6465 Dec 22 05:34	2° \mathbb{B} 19'51	0°44'06	retrograde	6471 Oct 28 03:27	11° \mathbb{B} 16'51	
morning rise	6466 Jan 04 02:20	5° \mathbb{B} 05'32		opposition	6471 Dec 26 15:22	6° \mathbb{B} 14'36	-1°02'04
retrograde	6466 May 04 08:13	21° \mathbb{B} 43'38		min. Earth dist.	6471 Dec 25 14:55	6° \mathbb{B} 22'51	3.92198 AU
opposition	6466 Jul 04 06:02	16° \mathbb{B} 50'41	0°50'20	direct	6472 Feb 22 12:34	1° \mathbb{B} 20'01	
min. Earth dist.	6466 Jul 05 11:48	16° \mathbb{B} 41'11	4.46815 AU	evening set	6472 Jun 28 00:16	21° \mathbb{B} 15'43	
direct	6466 Sep 05 01:08	11° \mathbb{B} 49'10					
evening set	6467 Jan 08 12:31	29° \mathbb{B} 13'17		conjunction	6472 Jul 11 13:27	24° \mathbb{B} 31'23	-0°28'28
	6467 Jan 12 02:32	0° \approx		minimum elong	6472 Jul 11 13:28	24° \mathbb{B} 31'24	0°28'30
max. Earth dist.	6467 Jan 19 06:34	1° \approx 33'53	6.42727 AU	max. Earth dist.	6472 Jul 13 15:01	25° \mathbb{B} 01'15	5.95128 AU
				morning rise	6472 Jul 25 05:20	27° \mathbb{B} 48'15	
conjunction	6467 Jan 21 08:01	2° \approx 00'55	0°22'42		6472 Aug 03 11:32	0° Ω	
minimum elong	6467 Jan 21 08:02	2° \approx 00'56	0°22'44		6472 Oct 19 01:21	15° Ω	
morning rise	6467 Feb 03 01:25	4° \approx 47'46		retrograde	6472 Dec 03 08:06	18° Ω 12'08	
	6467 Mar 25 19:05	15° \approx			6473 Jan 17 18:47	15° $\mathbb{R}\Omega$	
retrograde	6467 Jun 04 14:01	21° \approx 53'21		min. Earth dist.	6473 Jan 30 07:02	13° Ω 20'25	4.00450 AU

opposition	6473 Jan 31 20:35	13°♏07'38	-0°19'00	minimum elong	6479 Jan 25 14:13	6°≈23'23	0°19'02
direct	6473 Mar 30 23:23	8°♏10'45		morning rise	6479 Feb 07 07:30	9°≈10'47	
	6473 Jun 06 13:12	15°♏			6479 Mar 06 18:02	15°≈	
asc. node	6473 Jul 05 07:13	20°♏44'25		retrograde	6479 Jun 09 04:38	26°≈23'03	
evening set	6473 Aug 04 13:38	27°♏33'55		opposition	6479 Aug 09 02:27	21°≈30'39	0°07'30
	6473 Aug 15 00:37	0°♐		min. Earth dist.	6479 Aug 10 17:46	21°≈18'05	4.34982 AU
				direct	6479 Oct 10 09:46	16°≈30'39	
conjunction	6473 Aug 18 06:24	0°♐45'23	0°03'39	desc. node	6479 Oct 17 13:18	16°≈35'23	
minimum elong	6473 Aug 18 06:22	0°♐45'22	0°03'38		6480 Jan 23 08:52	0°♐	
behind sun begin	6473 Aug 17 22:04	0°♐40'33		evening set	6480 Feb 12 20:01	4°♐29'54	
behind sun end	6473 Aug 18 14:41	0°♐50'11		max. Earth dist.	6480 Feb 23 07:56	6°♐52'08	6.27613 AU
max. Earth dist.	6473 Aug 20 17:44	1°♐19'59	6.07447 AU				
morning rise	6473 Sep 01 00:17	3°♐57'07		conjunction	6480 Feb 25 13:49	7°♐22'40	-0°09'47
retrograde	6474 Jan 07 02:01	23°♐14'18		minimum elong	6480 Feb 25 13:48	7°♐22'40	0°09'46
min. Earth dist.	6474 Mar 06 07:52	18°♐22'06	4.15402 AU	behind sun begin	6480 Feb 25 07:14	7°♐18'57	
opposition	6474 Mar 07 18:42	18°♐10'18	0°28'42	behind sun end	6480 Feb 25 20:22	7°♐26'22	
direct	6474 May 05 23:07	13°♐10'49		morning rise	6480 Mar 09 06:38	10°♐15'17	
	6474 Sep 01 09:47	0°♑		retrograde	6480 Jul 11 23:43	28°♐25'50	
evening set	6474 Sep 09 10:43	1°♑47'12		opposition	6480 Sep 10 16:49	23°♐32'22	-0°35'31
				min. Earth dist.	6480 Sep 12 03:56	23°♐21'04	4.19485 AU
conjunction	6474 Sep 23 01:35	4°♑50'31	0°32'56	direct	6480 Nov 10 20:41	18°♐34'30	
minimum elong	6474 Sep 23 01:33	4°♑50'31	0°32'57		6481 Feb 11 19:26	0°♑	
max. Earth dist.	6474 Sep 25 00:29	5°♑16'52	6.23692 AU	evening set	6481 Mar 16 12:01	7°♑19'02	
morning rise	6474 Oct 06 16:01	7°♑53'19		max. Earth dist.	6481 Mar 27 14:04	9°♑54'56	6.11362 AU
retrograde	6475 Feb 08 05:25	25°♑57'44					
min. Earth dist.	6475 Apr 08 08:41	21°♑04'08	4.31460 AU	conjunction	6481 Mar 29 06:55	10°♑18'57	-0°36'50
opposition	6475 Apr 09 07:38	20°♑56'29	1°03'36	minimum elong	6481 Mar 29 06:53	10°♑18'56	0°36'50
direct	6475 Jun 08 19:15	15°♑55'14		morning rise	6481 Apr 11 02:25	13°♑19'27	
	6475 Sep 25 06:38	0°♒			6481 Jul 06 01:44	0°♒	
evening set	6475 Oct 13 03:14	3°♒48'35		retrograde	6481 Aug 17 11:07	2°♒44'12	
					6481 Sep 29 06:32	30°♒♑	
conjunction	6475 Oct 26 12:51	6°♒43'36	0°50'31	opposition	6481 Oct 16 17:02	27°♑48'20	-1°09'51
minimum elong	6475 Oct 26 12:50	6°♒43'35	0°50'34	min. Earth dist.	6481 Oct 17 12:41	27°♑41'55	4.03763 AU
max. Earth dist.	6475 Oct 27 08:55	6°♒54'32	6.38321 AU	direct	6481 Dec 15 10:47	22°♑52'50	
morning rise	6475 Nov 08 20:48	9°♒37'35			6482 Feb 22 20:25	0°♒	
	6475 Dec 04 09:13	15°♒		evening set	6482 Apr 20 08:46	12°♒23'32	
retrograde	6476 Mar 09 17:14	26°♒46'18			6482 May 01 04:13	15°♒	
opposition	6476 May 09 03:33	21°♒48'37	1°17'56				
min. Earth dist.	6476 May 08 23:56	21°♒49'48	4.43656 AU	conjunction	6482 May 03 08:27	15°♒31'36	-0°52'18
direct	6476 Jul 09 21:37	16°♒46'37		minimum elong	6482 May 03 08:26	15°♒31'36	0°52'20
	6476 Oct 23 20:32	0°♓		max. Earth dist.	6482 May 02 21:07	15°♒24'45	5.97617 AU
evening set	6476 Nov 12 21:41	4°♓11'32		morning rise	6482 May 16 09:56	18°♒40'54	
					6482 Jul 05 20:33	0°♓	
conjunction	6476 Nov 26 01:21	7°♓00'41	0°53'11	retrograde	6482 Sep 24 19:30	9°♓09'52	
minimum elong	6476 Nov 26 01:21	7°♓00'41	0°53'14	opposition	6482 Nov 23 14:20	4°♓10'40	-1°19'41
max. Earth dist.	6476 Nov 25 15:33	6°♓55'26	6.47194 AU	min. Earth dist.	6482 Nov 23 09:43	4°♓12'12	3.93473 AU
morning rise	6476 Dec 09 02:44	9°♓48'40			6482 Dec 31 08:04	30°♓♒	
retrograde	6477 Apr 08 10:51	26°♓28'35		direct	6483 Jan 21 00:31	29°♓16'34	
opposition	6477 Jun 08 05:09	21°♓33'58	1°11'05		6483 Feb 10 16:25	0°♓	
min. Earth dist.	6477 Jun 08 20:29	21°♓29'01	4.48780 AU	evening set	6483 May 27 07:26	19°♓14'46	
direct	6477 Aug 09 18:00	16°♓31'57					
	6477 Nov 25 08:58	0°♔		conjunction	6483 Jun 09 14:22	22°♓29'04	-0°47'59
evening set	6477 Dec 13 11:33	3°♔47'57		minimum elong	6483 Jun 09 14:24	22°♓29'05	0°48'02
max. Earth dist.	6477 Dec 25 00:06	6°♔16'25	6.48191 AU	max. Earth dist.	6483 Jun 10 14:16	22°♓43'39	5.91774 AU
				morning rise	6483 Jun 23 00:15	25°♓44'54	
conjunction	6477 Dec 26 10:11	6°♔34'46	0°41'40		6483 Jul 10 20:08	0°♔	
minimum elong	6477 Dec 26 10:12	6°♔34'47	0°41'44	retrograde	6483 Nov 02 08:48	16°♔35'22	
morning rise	6478 Jan 08 06:15	9°♔20'29		opposition	6483 Dec 31 21:24	11°♔32'38	-0°57'09
retrograde	6478 May 08 13:59	26°♔01'30		min. Earth dist.	6483 Dec 30 18:03	11°♔41'54	3.92858 AU
opposition	6478 Jul 08 13:00	21°♔08'46	0°45'52	direct	6484 Feb 27 17:51	6°♔37'46	
min. Earth dist.	6478 Jul 09 19:52	20°♔58'55	4.45650 AU	evening set	6484 Jul 03 06:05	26°♔30'13	
direct	6478 Sep 09 06:59	16°♔07'28					
	6478 Dec 27 00:45	0°♕		conjunction	6484 Jul 16 20:10	29°♔45'40	-0°24'20
evening set	6479 Jan 12 19:12	3°≈35'17		minimum elong	6484 Jul 16 20:11	29°♔45'41	0°24'22
max. Earth dist.	6479 Jan 23 10:47	5°≈55'08	6.41105 AU		6484 Jul 17 20:03	0°♕	
				max. Earth dist.	6484 Jul 19 00:46	0°♕17'15	5.96416 AU
conjunction	6479 Jan 25 14:12	6°≈23'22	0°19'00	morning rise	6484 Jul 30 12:33	3°♕02'08	

	6484 Sep 22 22:36	15°♏		morning rise	6490 Jan 12 11:49	13°♌38'20	
retrograde	6484 Dec 08 08:14	23°♏18'26			6490 Apr 27 18:52	0°♌	
min. Earth dist.	6485 Feb 04 07:11	18°♏26'26	4.02193 AU	retrograde	6490 May 12 22:24	0°♌21'23	
opposition	6485 Feb 05 20:10	18°♏13'50	-0°12'09		6490 May 28 01:30	30°♌	
	6485 Mar 03 19:48	15°♌		opposition	6490 Jul 12 21:26	25°♌28'47	0°41'08
direct	6485 Apr 05 02:24	13°♏16'33		min. Earth dist.	6490 Jul 14 05:29	25°♌18'33	4.44861 AU
	6485 May 07 11:45	15°♏		direct	6490 Sep 13 15:06	20°♌27'40	
asc. node	6485 May 15 11:34	15°♏54'16			6490 Dec 09 14:46	0°♌	
	6485 Jul 29 11:12	0°♍		evening set	6491 Jan 17 01:56	7°♌57'39	
evening set	6485 Aug 09 15:37	2°♍33'49		max. Earth dist.	6491 Jan 27 17:57	10°♌18'05	6.39983 AU
conjunction	6485 Aug 23 08:26	5°♍44'21	0°08'09	conjunction	6491 Jan 29 20:44	10°♌46'02	0°15'15
minimum elong	6485 Aug 23 08:25	5°♍44'21	0°08'08	minimum elong	6491 Jan 29 20:45	10°♌46'03	0°15'17
behind sun begin	6485 Aug 23 01:01	5°♍40'04		behind sun begin	6491 Jan 29 18:04	10°♌44'35	
behind sun end	6485 Aug 23 15:49	5°♍48'37		behind sun end	6491 Jan 29 23:26	10°♌47'31	
max. Earth dist.	6485 Aug 25 19:31	6°♍18'37	6.09477 AU	morning rise	6491 Feb 11 13:36	13°♌33'46	
morning rise	6485 Sep 06 02:12	8°♍55'04			6491 Feb 18 03:48	15°♌	
retrograde	6486 Jan 11 15:47	28°♍02'20			6491 May 21 04:02	0°♌	
min. Earth dist.	6486 Mar 10 23:41	23°♍10'14	4.17522 AU	retrograde	6491 Jun 13 16:27	0°♌51'05	
opposition	6486 Mar 12 10:07	22°♍58'36	0°34'36		6491 Jul 07 06:37	30°♌	
direct	6486 May 10 17:37	17°♍58'48		opposition	6491 Aug 13 15:21	25°♌58'39	0°01'37
	6486 Aug 15 04:50	0°♎		min. Earth dist.	6491 Aug 15 05:58	25°♌46'20	4.33593 AU
evening set	6486 Sep 14 06:19	6°♎29'20		desc. node	6491 Aug 28 15:13	24°♌06'32	
				direct	6491 Oct 14 19:35	20°♌58'59	
conjunction	6486 Sep 27 20:35	9°♎31'32	0°36'13		6492 Jan 05 14:35	0°♌	
minimum elong	6486 Sep 27 20:33	9°♎31'31	0°36'13	evening set	6492 Feb 17 05:38	9°♌01'50	
max. Earth dist.	6486 Sep 29 15:09	9°♎55'21	6.25730 AU	max. Earth dist.	6492 Feb 27 17:48	11°♌24'47	6.26058 AU
morning rise	6486 Oct 11 10:19	12°♎33'07					
	6487 Jan 26 04:27	0°♍		conjunction	6492 Feb 29 23:08	11°♌55'08	-0°13'45
retrograde	6487 Feb 12 15:02	0°♍29'15		minimum elong	6492 Feb 29 23:07	11°♌55'08	0°13'45
	6487 Mar 01 21:36	30°♌		behind sun begin	6492 Feb 29 18:44	11°♌52'39	
opposition	6487 Apr 13 17:04	25°♎28'28	1°06'54	behind sun end	6492 Mar 01 03:30	11°♌57'37	
min. Earth dist.	6487 Apr 12 21:24	25°♎35'00	4.33254 AU	morning rise	6492 Mar 13 16:07	14°♌48'25	
direct	6487 Jun 13 09:49	20°♎27'03			6492 Jun 01 03:18	0°♍	
	6487 Sep 07 10:55	0°♍		retrograde	6492 Jul 16 19:53	3°♍06'23	
evening set	6487 Oct 17 16:15	8°♍16'09			6492 Sep 01 05:44	30°♌	
				opposition	6492 Sep 15 11:28	28°♌12'40	-0°40'57
conjunction	6487 Oct 31 01:11	11°♍10'18	0°51'47	min. Earth dist.	6492 Sep 16 21:37	28°♌01'39	4.17852 AU
minimum elong	6487 Oct 31 01:10	11°♍10'18	0°51'50	direct	6492 Nov 15 12:27	23°♌15'05	
max. Earth dist.	6487 Oct 31 17:56	11°♍19'24	6.39744 AU		6493 Jan 23 06:50	0°♍	
morning rise	6487 Nov 13 08:13	14°♍03'22		evening set	6493 Mar 21 02:09	12°♍04'02	
	6487 Nov 17 17:29	15°♍		max. Earth dist.	6493 Apr 01 07:47	14°♍42'30	6.09799 AU
	6488 Feb 16 01:58	0°♌					
retrograde	6488 Mar 13 21:28	1°♌07'07		conjunction	6493 Apr 02 21:30	15°♍04'45	-0°39'45
	6488 Apr 09 15:12	30°♌		minimum elong	6493 Apr 02 21:29	15°♍04'44	0°39'46
opposition	6488 May 13 09:37	26°♍09'55	1°18'12	morning rise	6493 Apr 15 17:26	18°♍06'09	
min. Earth dist.	6488 May 13 07:44	26°♍10'32	4.44653 AU		6493 Jun 09 19:14	0°♌	
direct	6488 Jul 14 05:27	21°♍07'56		retrograde	6493 Aug 22 11:42	7°♌38'41	
	6488 Oct 05 22:52	0°♌		opposition	6493 Oct 21 16:52	2°♌42'29	-1°12'46
evening set	6488 Nov 17 06:21	8°♌30'58		min. Earth dist.	6493 Oct 22 09:53	2°♌36'54	4.02420 AU
					6493 Nov 12 14:25	30°♌	
conjunction	6488 Nov 30 09:16	11°♌19'38	0°52'22	direct	6493 Dec 20 05:36	27°♍47'16	
minimum elong	6488 Nov 30 09:16	11°♌19'39	0°52'24		6494 Jan 26 09:17	0°♌	
max. Earth dist.	6488 Nov 29 20:33	11°♌12'49	6.47724 AU		6494 Apr 15 07:22	15°♌	
morning rise	6488 Dec 13 09:46	14°♌07'07		evening set	6494 Apr 25 04:35	17°♌21'35	
	6489 Mar 21 11:31	0°♌					
retrograde	6489 Apr 12 16:23	0°♌45'39		conjunction	6494 May 08 04:53	20°♌30'28	-0°52'55
	6489 May 04 19:19	30°♌		minimum elong	6494 May 08 04:53	20°♌30'28	0°52'57
opposition	6489 Jun 12 11:03	25°♌51'28	1°08'31	max. Earth dist.	6494 May 07 20:04	20°♌25'07	5.96605 AU
min. Earth dist.	6489 Jun 13 04:47	25°♌45'46	4.48845 AU	morning rise	6494 May 21 07:28	23°♌40'42	
direct	6489 Aug 14 01:57	20°♌49'37			6494 Jun 17 06:19	0°♌	
	6489 Nov 07 18:13	0°♌		retrograde	6494 Sep 29 22:22	14°♌14'43	
evening set	6489 Dec 17 18:13	8°♌05'55		opposition	6494 Nov 28 16:46	9°♌15'02	-1°18'27
max. Earth dist.	6489 Dec 29 02:40	10°♌32'25	6.47806 AU	min. Earth dist.	6494 Nov 28 09:07	9°♌17'35	3.92905 AU
				direct	6495 Jan 26 00:25	4°♌20'55	
conjunction	6489 Dec 30 16:08	10°♌52'38	0°39'04	evening set	6495 Jun 01 07:36	24°♌20'20	
minimum elong	6489 Dec 30 16:09	10°♌52'39	0°39'06				

conjunction	6495 Jun 14 15:44	27° Π 35'11	-0°45'47	conjunction	6500 Dec 05 16:27	15° X 37'57	0°51'13
minimum elong	6495 Jun 14 15:45	27° Π 35'12	0°45'50	minimum elong	6500 Dec 05 16:28	15° X 37'58	0°51'16
max. Earth dist.	6495 Jun 15 20:24	27° Π 52'40	5.91722 AU	max. Earth dist.	6500 Dec 05 00:46	15° X 29'32	6.48215 AU
	6495 Jun 24 13:29	0° \mathfrak{E}		morning rise	6500 Dec 18 16:10	18° X 24'56	
morning rise	6495 Jun 28 02:29	0° \mathfrak{E} 51'30			6501 Feb 17 05:07	0° \mathfrak{Z}	
retrograde	6495 Nov 07 11:10	21° \mathfrak{E} 41'19		retrograde	6501 Apr 17 20:11	5° \mathfrak{Z} 01'59	
opposition	6496 Jan 05 22:07	16° \mathfrak{E} 38'17	-0°52'03	opposition	6501 Jun 17 16:24	0° \mathfrak{Z} 07'58	1°05'34
min. Earth dist.	6496 Jan 04 18:10	16° \mathfrak{E} 47'46	3.93330 AU	min. Earth dist.	6501 Jun 18 11:29	0° \mathfrak{Z} 01'50	4.48861 AU
direct	6496 Mar 03 18:51	11° \mathfrak{E} 43'11			6501 Jun 18 17:12	30° \mathfrak{R} X	
	6496 Jul 01 17:37	0° \mathfrak{Q}		direct	6501 Aug 19 07:47	25° X 06'06	
evening set	6496 Jul 08 07:45	1° \mathfrak{Q} 33'48			6501 Oct 18 16:12	0° \mathfrak{Z}	
				evening set	6501 Dec 22 23:46	12° \mathfrak{Z} 22'33	
conjunction	6496 Jul 21 22:32	4° \mathfrak{Q} 49'08	-0°20'13	max. Earth dist.	6502 Jan 03 06:17	14° \mathfrak{Z} 48'13	6.47314 AU
minimum elong	6496 Jul 21 22:33	4° \mathfrak{Q} 49'09	0°20'16				
max. Earth dist.	6496 Jul 24 04:51	5° \mathfrak{Q} 21'38	5.97360 AU	conjunction	6502 Jan 04 21:08	15° \mathfrak{Z} 09'13	0°36'13
morning rise	6496 Aug 04 15:37	8° \mathfrak{Q} 05'26		minimum elong	6502 Jan 04 21:09	15° \mathfrak{Z} 09'13	0°36'15
	6496 Sep 03 17:25	15° \mathfrak{Q}		morning rise	6502 Jan 17 16:10	17° \mathfrak{Z} 54'52	
retrograde	6496 Dec 13 03:25	28° \mathfrak{Q} 15'44			6502 Mar 21 22:22	0° \mathfrak{X}	
min. Earth dist.	6497 Feb 09 01:34	23° \mathfrak{Q} 24'05	4.03516 AU	retrograde	6502 May 18 05:53	4° \mathfrak{X} 40'15	
opposition	6497 Feb 10 15:31	23° \mathfrak{Q} 11'10	-0°05'35		6502 Jul 16 14:47	30° \mathfrak{R} \mathfrak{Z}	
asc. node	6497 Mar 27 21:02	18° \mathfrak{Q} 31'09		opposition	6502 Jul 18 05:18	29° \mathfrak{Z} 47'44	0°36'08
direct	6497 Apr 09 22:53	18° \mathfrak{Q} 13'33		min. Earth dist.	6502 Jul 19 15:07	29° \mathfrak{Z} 36'57	4.43855 AU
	6497 Jul 12 02:42	0° \mathfrak{M}		direct	6502 Sep 18 22:35	24° \mathfrak{Z} 46'43	
evening set	6497 Aug 14 14:46	7° \mathfrak{M} 26'59			6502 Nov 19 22:53	0° \mathfrak{X}	
				evening set	6503 Jan 22 08:26	12° \mathfrak{X} 19'32	
conjunction	6497 Aug 28 07:33	10° \mathfrak{M} 36'48	0°12'24	max. Earth dist.	6503 Feb 01 21:22	14° \mathfrak{X} 38'49	6.38507 AU
minimum elong	6497 Aug 28 07:32	10° \mathfrak{M} 36'48	0°12'23		6503 Feb 03 11:40	15° \mathfrak{X}	
behind sun begin	6497 Aug 28 02:10	10° \mathfrak{M} 33'43					
behind sun end	6497 Aug 28 12:54	10° \mathfrak{M} 39'53		conjunction	6503 Feb 04 02:46	15° \mathfrak{X} 08'20	0°11'20
max. Earth dist.	6497 Aug 30 16:15	11° \mathfrak{M} 09'35	6.11059 AU	minimum elong	6503 Feb 04 02:46	15° \mathfrak{X} 08'20	0°11'23
morning rise	6497 Sep 11 01:14	13° \mathfrak{M} 46'42		behind sun begin	6503 Feb 03 20:56	15° \mathfrak{X} 05'08	
	6497 Dec 04 23:21	0° \mathfrak{L}		behind sun end	6503 Feb 04 08:36	15° \mathfrak{X} 11'33	
retrograde	6498 Jan 16 05:45	2° \mathfrak{L} 46'06		morning rise	6503 Feb 16 19:36	17° \mathfrak{X} 56'35	
	6498 Feb 27 09:03	30° \mathfrak{R} \mathfrak{M}			6503 Apr 18 21:07	0° \mathfrak{H}	
opposition	6498 Mar 16 23:40	27° \mathfrak{M} 42'38	0°40'02	retrograde	6503 Jun 19 06:53	5° \mathfrak{H} 20'15	
min. Earth dist.	6498 Mar 15 15:18	27° \mathfrak{M} 53'34	4.19204 AU	desc. node	6503 Jul 09 14:27	4° \mathfrak{H} 41'58	
direct	6498 May 15 11:35	22° \mathfrak{M} 42'32		opposition	6503 Aug 19 04:37	0° \mathfrak{H} 27'39	-0°04'24
	6498 Jul 26 16:17	0° \mathfrak{L}		min. Earth dist.	6503 Aug 20 19:31	0° \mathfrak{H} 15'12	4.31712 AU
evening set	6498 Sep 19 00:13	11° \mathfrak{L} 08'43			6503 Aug 22 19:09	30° \mathfrak{R} \mathfrak{X}	
				direct	6503 Oct 20 06:07	25° \mathfrak{X} 28'07	
conjunction	6498 Oct 02 14:05	14° \mathfrak{L} 10'01	0°39'08		6503 Dec 15 17:52	0° \mathfrak{H}	
minimum elong	6498 Oct 02 14:04	14° \mathfrak{L} 10'00	0°39'10	evening set	6504 Feb 22 16:02	13° \mathfrak{H} 36'24	
max. Earth dist.	6498 Oct 04 07:25	14° \mathfrak{L} 33'03	6.27390 AU	max. Earth dist.	6504 Mar 04 06:15	16° \mathfrak{H} 01'09	6.23918 AU
morning rise	6498 Oct 16 02:58	17° \mathfrak{L} 10'34					
	6498 Dec 20 08:15	0° \mathfrak{M}		conjunction	6504 Mar 06 09:46	16° \mathfrak{H} 30'36	-0°17'46
retrograde	6499 Feb 16 21:52	4° \mathfrak{M} 59'35		minimum elong	6504 Mar 06 09:45	16° \mathfrak{H} 30'35	0°17'45
min. Earth dist.	6499 Apr 17 06:52	0° \mathfrak{M} 05'25	4.34774 AU	morning rise	6504 Mar 19 02:49	19° \mathfrak{H} 24'49	
	6499 Apr 17 23:13	30° \mathfrak{R} \mathfrak{L}			6504 May 08 04:28	0° \mathfrak{Y}	
opposition	6499 Apr 18 01:32	29° \mathfrak{L} 59'14	1°09'41	retrograde	6504 Jul 22 17:40	7° \mathfrak{Y} 52'20	
direct	6499 Jun 17 20:43	24° \mathfrak{L} 57'42		opposition	6504 Sep 21 08:18	2° \mathfrak{Y} 58'21	-0°46'22
	6499 Aug 16 23:51	0° \mathfrak{M}		min. Earth dist.	6504 Sep 22 17:04	2° \mathfrak{Y} 47'46	4.15606 AU
evening set	6499 Oct 22 04:51	12° \mathfrak{M} 43'12			6504 Oct 16 01:06	30° \mathfrak{R} \mathfrak{H}	
	6499 Nov 01 17:36	15° \mathfrak{M}		direct	6504 Nov 21 04:01	28° \mathfrak{H} 01'06	
					6504 Dec 26 22:36	0° \mathfrak{Y}	
conjunction	6499 Nov 04 12:50	15° \mathfrak{M} 36'30	0°52'42	evening set	6505 Mar 26 19:29	16° \mathfrak{Y} 56'43	
minimum elong	6499 Nov 04 12:49	15° \mathfrak{M} 36'30	0°52'44	max. Earth dist.	6505 Apr 07 03:22	19° \mathfrak{Y} 37'20	6.07629 AU
max. Earth dist.	6499 Nov 05 01:07	15° \mathfrak{M} 43'10	6.41009 AU				
morning rise	6499 Nov 17 19:02	18° \mathfrak{M} 28'42		conjunction	6505 Apr 08 15:10	19° \mathfrak{Y} 58'34	-0°42'34
	6500 Jan 16 01:04	0° X		minimum elong	6505 Apr 08 15:09	19° \mathfrak{Y} 58'33	0°42'35
retrograde	6500 Mar 19 03:26	5° X 27'43		morning rise	6505 Apr 21 11:57	23° \mathfrak{Y} 01'14	
opposition	6500 May 18 15:20	0° X 30'54	1°17'58		6505 May 22 01:53	0° \mathfrak{B}	
min. Earth dist.	6500 May 18 16:39	0° X 30'28	4.45578 AU	retrograde	6505 Aug 28 16:57	12° \mathfrak{B} 44'02	
	6500 May 22 14:16	30° \mathfrak{R} \mathfrak{M}		opposition	6505 Oct 27 21:09	7° \mathfrak{B} 47'21	-1°15'24
direct	6500 Jul 19 15:21	25° \mathfrak{M} 28'48		min. Earth dist.	6505 Oct 28 10:54	7° \mathfrak{B} 42'50	4.00526 AU
	6500 Sep 15 02:46	0° X		direct	6505 Dec 26 05:33	2° \mathfrak{B} 52'19	
evening set	6500 Nov 22 14:14	12° X 49'46			6506 Mar 29 19:58	15° \mathfrak{B}	
				evening set	6506 May 01 05:42	22° \mathfrak{B} 32'19	

conjunction	6506 May 14 07:10	25°♄42'20	-0°53'11	conjunction	6511 Nov 09 22:41	19°♎58'08	0°53'20
minimum elong	6506 May 14 07:10	25°♄42'20	0°53'13	minimum elong	6511 Nov 09 22:41	19°♎58'08	0°53'22
max. Earth dist.	6506 May 14 04:25	25°♄40'40	5.95188 AU	max. Earth dist.	6511 Nov 10 08:21	20°♎03'22	6.42780 AU
morning rise	6506 May 27 10:42	28°♄53'43		morning rise	6511 Nov 23 03:44	22°♎49'13	
	6506 Jun 01 00:53	0°♊			6511 Dec 28 01:42	0°♏	
retrograde	6506 Oct 06 09:30	19°♊33'54		retrograde	6512 Mar 23 04:38	9°♏42'26	
opposition	6506 Dec 05 01:00	14°♊33'46	-1°16'34	opposition	6512 May 22 19:05	4°♏46'03	1°17'20
min. Earth dist.	6506 Dec 04 15:00	14°♊37'07	3.92138 AU	min. Earth dist.	6512 May 22 22:17	4°♏45'01	4.46831 AU
direct	6507 Feb 01 06:04	9°♊39'40			6512 Jul 10 16:11	30°♏♎	
evening set	6507 Jun 07 14:33	29°♊40'52		direct	6512 Jul 23 21:26	29°♎44'00	
	6507 Jun 08 22:07	0°♐			6512 Aug 06 06:12	0°♏	
				evening set	6512 Nov 26 19:25	17°♏02'06	
conjunction	6507 Jun 20 23:44	2°♐56'16	-0°43'06	conjunction	6512 Dec 09 20:43	19°♏49'43	0°49'50
minimum elong	6507 Jun 20 23:46	2°♐56'17	0°43'09	minimum elong	6512 Dec 09 20:43	19°♏49'44	0°49'53
max. Earth dist.	6507 Jun 22 08:21	3°♐16'08	5.91679 AU	max. Earth dist.	6512 Dec 09 00:20	19°♏38'48	6.48848 AU
morning rise	6507 Jul 04 11:48	6°♐13'10		morning rise	6512 Dec 22 19:42	22°♏36'12	
retrograde	6507 Nov 13 17:26	27°♐01'22			6513 Jan 28 04:03	0°♑	
min. Earth dist.	6508 Jan 10 21:18	22°♐08'35	3.94045 AU	retrograde	6513 Apr 21 23:29	9°♑11'54	
opposition	6508 Jan 12 04:23	21°♐58'02	-0°46'15	opposition	6513 Jun 21 19:34	4°♑18'13	1°02'22
direct	6508 Mar 10 00:03	17°♐02'42		min. Earth dist.	6513 Jun 22 18:14	4°♑10'57	4.48830 AU
	6508 Jun 15 00:02	0°♑			6513 Aug 01 10:10	30°♑♏	
evening set	6508 Jul 14 15:16	6°♑50'14		direct	6513 Aug 23 13:11	29°♏16'25	
conjunction	6508 Jul 28 06:39	10°♑05'12	-0°15'43		6513 Sep 14 19:02	0°♑	
minimum elong	6508 Jul 28 06:40	10°♑05'12	0°15'46	evening set	6513 Dec 27 02:49	16°♑33'29	
behind sun begin	6508 Jul 28 05:41	10°♑04'38		max. Earth dist.	6514 Jan 07 04:53	18°♑57'02	6.46602 AU
behind sun end	6508 Jul 28 07:38	10°♑05'47		conjunction	6514 Jan 08 23:42	19°♑20'13	0°33'15
max. Earth dist.	6508 Jul 30 14:19	10°♑38'23	5.98769 AU	minimum elong	6514 Jan 08 23:43	19°♑20'14	0°33'17
morning rise	6508 Aug 11 00:14	13°♑21'01		morning rise	6514 Jan 21 18:19	22°♑06'00	
	6508 Aug 18 00:43	15°♑			6514 Mar 01 08:24	0°♒	
	6508 Nov 02 09:37	0°♑		retrograde	6514 May 22 12:03	8°♒54'54	
retrograde	6508 Dec 19 02:54	3°♑23'02		opposition	6514 Jul 22 11:34	4°♒02'27	0°31'01
	6509 Feb 03 23:06	30°♑♑		min. Earth dist.	6514 Jul 23 22:30	3°♒51'18	4.42496 AU
asc. node	6509 Feb 05 10:46	29°♑48'30			6514 Aug 28 12:31	30°♑♑	
min. Earth dist.	6509 Feb 15 01:28	28°♑31'18	4.05455 AU	direct	6514 Sep 23 02:37	29°♑01'33	
opposition	6509 Feb 16 15:13	28°♑18'26	0°01'22		6514 Oct 18 20:20	0°♒	
direct	6509 Apr 16 02:39	23°♑20'28		evening set	6515 Jan 19 00:46	15°♒	
	6509 Jun 22 06:40	0°♑		max. Earth dist.	6515 Jan 26 13:16	16°♒38'38	
evening set	6509 Aug 20 17:23	12°♑27'27			6515 Feb 06 02:00	18°♒58'22	6.36591 AU
conjunction	6509 Sep 03 10:08	15°♑36'11	0°16'45	conjunction	6515 Feb 08 07:30	19°♒28'06	0°07'27
minimum elong	6509 Sep 03 10:07	15°♑36'11	0°16'44	minimum elong	6515 Feb 08 07:30	19°♒28'06	0°07'28
max. Earth dist.	6509 Sep 05 19:40	16°♑09'15	6.13379 AU	behind sun begin	6515 Feb 08 00:15	19°♒24'05	
morning rise	6509 Sep 17 03:15	18°♑44'47		behind sun end	6515 Feb 08 14:46	19°♒32'06	
	6509 Nov 09 15:51	0°♒		morning rise	6515 Feb 21 00:08	22°♒17'02	
retrograde	6510 Jan 21 19:22	7°♒33'15			6515 Mar 29 13:13	0°♒	
min. Earth dist.	6510 Mar 21 07:06	2°♒40'50	4.21677 AU	desc. node	6515 May 20 07:39	8°♒00'45	
opposition	6510 Mar 22 14:47	2°♒30'10	0°45'21	retrograde	6515 Jun 23 21:26	9°♒48'59	
	6510 Apr 11 03:22	30°♒♑		opposition	6515 Aug 23 17:50	4°♒56'19	-0°10'23
direct	6510 May 21 06:30	27°♑29'52		min. Earth dist.	6515 Aug 25 09:31	4°♒43'38	4.29338 AU
	6510 Jun 30 18:34	0°♒			6515 Oct 19 01:16	30°♒♒	
evening set	6510 Sep 24 19:02	15°♒48'54		direct	6515 Oct 24 15:46	29°♒57'05	
conjunction	6510 Oct 08 07:59	18°♒48'49	0°41'54		6515 Oct 30 06:30	0°♒	
minimum elong	6510 Oct 08 07:57	18°♒48'48	0°41'56	evening set	6516 Feb 27 02:49	18°♒12'39	
max. Earth dist.	6510 Oct 09 20:46	19°♒09'13	6.29809 AU	max. Earth dist.	6516 Mar 08 16:33	20°♒38'02	6.21264 AU
morning rise	6510 Oct 21 20:05	21°♒47'59		conjunction	6516 Mar 10 20:33	21°♒07'57	-0°21'39
	6510 Nov 30 01:27	0°♓		minimum elong	6516 Mar 10 20:32	21°♒07'57	0°21'39
retrograde	6511 Feb 22 04:49	9°♓27'35		morning rise	6516 Mar 23 14:08	24°♒03'27	
opposition	6511 Apr 23 09:38	4°♓27'41	1°12'05		6516 Apr 19 06:26	0°♓	
min. Earth dist.	6511 Apr 22 18:03	4°♓32'51	4.36952 AU	retrograde	6516 Jul 27 17:35	12°♓42'49	
	6511 Jun 04 09:38	30°♓♑		opposition	6516 Sep 26 06:45	7°♓48'30	-0°51'32
direct	6511 Jun 23 10:06	29°♑26'00		min. Earth dist.	6516 Sep 27 13:15	7°♓38'37	4.12868 AU
	6511 Jul 12 15:10	0°♓		direct	6516 Nov 25 21:03	2°♓51'33	
	6511 Oct 17 19:18	15°♓		evening set	6517 Mar 31 14:58	21°♓55'48	
evening set	6511 Oct 27 15:25	17°♓05'52		max. Earth dist.	6517 Apr 12 04:43	24°♓40'45	6.05069 AU

conjunction	6517 Apr 13 11:29	24° Υ 59'05	-0°45'05	minimum elong	6522 Oct 13 00:59	23° Ω 25'52	0°44'26
minimum elong	6517 Apr 13 11:28	24° Υ 59'05	0°45'07	max. Earth dist.	6522 Oct 14 11:12	23° Ω 44'45	6.32151 AU
morning rise	6517 Apr 26 08:57	28° Υ 03'14		morning rise	6522 Oct 26 11:57	26° Ω 23'37	
	6517 May 04 15:15	0° \mathcal{B}			6522 Nov 12 05:35	0° \mathcal{M}	
	6517 Jul 21 03:10	15° \mathcal{B}		retrograde	6523 Feb 26 10:41	13° \mathcal{M} 54'29	
retrograde	6517 Sep 03 03:56	17° \mathcal{B} 57'45		opposition	6523 Apr 27 17:24	8° \mathcal{M} 55'06	1°14'06
	6517 Oct 17 15:04	15° $\mathcal{R}\mathcal{B}$		min. Earth dist.	6523 Apr 27 04:13	8° \mathcal{M} 59'27	4.38915 AU
opposition	6517 Nov 02 04:30	13° \mathcal{B} 00'40	-1°17'29	direct	6523 Jun 27 22:23	3° \mathcal{M} 53'21	
min. Earth dist.	6517 Nov 02 15:36	12° \mathcal{B} 57'01	3.98409 AU		6523 Sep 30 19:10	15° \mathcal{M}	
direct	6517 Dec 31 08:14	8° \mathcal{B} 05'55		evening set	6523 Nov 01 02:07	21° \mathcal{M} 28'25	
	6518 Mar 09 00:28	15° \mathcal{B}					
evening set	6518 May 06 10:22	27° \mathcal{B} 52'18		conjunction	6523 Nov 14 08:20	24° \mathcal{M} 19'44	0°53'42
	6518 May 15 04:34	0° Π		minimum elong	6523 Nov 14 08:20	24° \mathcal{M} 19'43	0°53'45
				max. Earth dist.	6523 Nov 14 12:08	24° \mathcal{M} 21'46	6.44219 AU
conjunction	6518 May 19 12:49	1° Π 03'31	-0°53'01	morning rise	6523 Nov 27 12:35	27° \mathcal{M} 09'55	
minimum elong	6518 May 19 12:50	1° Π 03'31	0°53'04		6523 Dec 10 21:51	0° \mathcal{X}	
max. Earth dist.	6518 May 19 14:38	1° Π 04'37	5.93717 AU	retrograde	6524 Mar 27 08:40	13° \mathcal{X} 58'34	
morning rise	6518 Jun 01 17:46	4° Π 16'12		opposition	6524 May 26 23:44	9° \mathcal{X} 02'37	1°16'21
retrograde	6518 Oct 11 21:03	25° Π 02'15		min. Earth dist.	6524 May 27 06:38	9° \mathcal{X} 00'23	4.47682 AU
opposition	6518 Dec 10 12:18	20° Π 01'33	-1°13'58	direct	6524 Jul 28 05:49	4° \mathcal{X} 00'30	
min. Earth dist.	6518 Dec 09 21:25	20° Π 06'33	3.91519 AU	evening set	6524 Dec 01 01:34	21° \mathcal{X} 17'03	
direct	6519 Feb 06 13:12	15° Π 07'25		max. Earth dist.	6524 Dec 13 03:01	23° \mathcal{X} 51'50	6.49051 AU
	6519 May 22 07:30	0° \mathcal{E}					
evening set	6519 Jun 13 00:35	5° \mathcal{E} 09'28		conjunction	6524 Dec 14 02:19	24° \mathcal{X} 04'20	0°48'12
				minimum elong	6524 Dec 14 02:20	24° \mathcal{X} 04'21	0°48'15
conjunction	6519 Jun 26 10:50	8° \mathcal{E} 25'15	-0°39'59	morning rise	6524 Dec 27 00:28	26° \mathcal{X} 50'27	
minimum elong	6519 Jun 26 10:52	8° \mathcal{E} 25'16	0°40'01		6525 Jan 11 00:51	0° \mathcal{Z}	
max. Earth dist.	6519 Jun 28 00:20	8° \mathcal{E} 48'04	5.91964 AU	retrograde	6525 Apr 26 03:05	13° \mathcal{Z} 26'13	
morning rise	6519 Jul 09 23:55	11° \mathcal{E} 42'27		opposition	6525 Jun 26 00:49	8° \mathcal{Z} 32'47	0°58'48
	6519 Oct 10 17:59	0° \mathcal{O}		min. Earth dist.	6525 Jun 27 00:58	8° \mathcal{Z} 25'02	4.48389 AU
retrograde	6519 Nov 19 01:34	2° \mathcal{O} 27'07		direct	6525 Aug 27 18:07	3° \mathcal{Z} 31'04	
	6519 Dec 28 07:38	30° $\mathcal{R}\mathcal{E}$		evening set	6525 Dec 31 08:10	20° \mathcal{Z} 49'55	
min. Earth dist.	6520 Jan 16 03:33	27° \mathcal{E} 34'32	3.95182 AU	max. Earth dist.	6526 Jan 11 07:17	23° \mathcal{Z} 12'17	6.45542 AU
opposition	6520 Jan 17 12:26	27° \mathcal{E} 23'20	-0°39'57				
direct	6520 Mar 15 10:18	22° \mathcal{E} 27'36		conjunction	6526 Jan 13 04:30	23° \mathcal{Z} 36'50	0°30'02
	6520 May 25 07:00	0° \mathcal{O}		minimum elong	6526 Jan 13 04:31	23° \mathcal{Z} 36'51	0°30'06
evening set	6520 Jul 20 00:11	12° \mathcal{O} 10'07		morning rise	6526 Jan 25 22:45	26° \mathcal{Z} 22'53	
	6520 Jul 31 22:59	15° \mathcal{O}			6526 Feb 11 23:02	0° \approx	
				retrograde	6526 May 26 22:58	13° \approx 16'28	
conjunction	6520 Aug 02 16:10	15° \mathcal{O} 24'26	-0°11'04	opposition	6526 Jul 26 21:20	8° \approx 24'06	0°25'35
minimum elong	6520 Aug 02 16:11	15° \mathcal{O} 24'26	0°11'05	min. Earth dist.	6526 Jul 28 10:37	8° \approx 12'13	4.40864 AU
behind sun begin	6520 Aug 02 09:59	15° \mathcal{O} 20'47		direct	6526 Sep 27 11:50	3° \approx 23'24	
behind sun end	6520 Aug 02 22:23	15° \mathcal{O} 28'06			6527 Jan 02 09:09	15° \approx	
max. Earth dist.	6520 Aug 05 03:24	15° \mathcal{O} 59'34	6.00627 AU	evening set	6527 Jan 30 21:31	21° \approx 05'27	
morning rise	6520 Aug 16 09:54	18° \mathcal{O} 39'25		max. Earth dist.	6527 Feb 10 08:13	23° \approx 24'47	6.34503 AU
	6520 Oct 07 08:59	0° \mathcal{M}					
asc. node	6520 Dec 15 06:01	8° \mathcal{M} 23'14		conjunction	6527 Feb 12 15:32	23° \approx 55'38	0°03'22
retrograde	6520 Dec 24 01:40	8° \mathcal{M} 30'58		minimum elong	6527 Feb 12 15:33	23° \approx 55'38	0°03'24
min. Earth dist.	6521 Feb 20 00:45	3° \mathcal{M} 39'17	4.07793 AU	behind sun begin	6527 Feb 12 07:38	23° \approx 51'15	
opposition	6521 Feb 21 14:42	3° \mathcal{M} 26'23	0°08'19	behind sun end	6527 Feb 12 23:28	24° \approx 00'02	
	6521 Mar 21 17:32	30° $\mathcal{R}\mathcal{O}$		morning rise	6527 Feb 25 08:15	26° \approx 45'26	
direct	6521 Apr 21 05:20	28° \mathcal{O} 28'01			6527 Mar 12 03:09	0° \mathcal{H}	
	6521 May 21 22:51	0° \mathcal{M}		desc. node	6527 Mar 29 13:10	3° \mathcal{H} 38'52	
evening set	6521 Aug 25 19:47	17° \mathcal{M} 27'14		retrograde	6527 Jun 28 14:44	14° \mathcal{H} 26'15	
				opposition	6527 Aug 28 10:50	9° \mathcal{H} 33'25	-0°16'31
conjunction	6521 Sep 08 12:02	20° \mathcal{M} 34'37	0°20'59	min. Earth dist.	6527 Aug 30 01:22	9° \mathcal{H} 21'04	4.26930 AU
minimum elong	6521 Sep 08 12:01	20° \mathcal{M} 34'36	0°20'58	direct	6527 Oct 29 03:57	4° \mathcal{H} 34'30	
max. Earth dist.	6521 Sep 10 18:44	21° \mathcal{M} 05'52	6.15947 AU	evening set	6528 Mar 02 17:12	22° \mathcal{H} 57'24	
morning rise	6521 Sep 22 04:46	23° \mathcal{M} 41'49		max. Earth dist.	6528 Mar 13 10:31	25° \mathcal{H} 25'39	6.18745 AU
	6521 Oct 20 21:52	0° \mathcal{A}					
retrograde	6522 Jan 26 07:30	12° \mathcal{A} 18'49		conjunction	6528 Mar 15 11:17	25° \mathcal{H} 53'51	-0°25'33
min. Earth dist.	6522 Mar 25 23:29	7° \mathcal{A} 26'03	4.24230 AU	minimum elong	6528 Mar 15 11:15	25° \mathcal{H} 53'51	0°25'32
opposition	6522 Mar 27 05:15	7° \mathcal{A} 16'02	0°50'21	morning rise	6528 Mar 28 05:07	28° \mathcal{H} 50'33	
direct	6522 May 26 01:55	2° \mathcal{A} 15'25			6528 Apr 02 06:17	0° \mathcal{Y}	
evening set	6522 Sep 29 12:42	20° \mathcal{A} 27'16		retrograde	6528 Aug 01 22:20	17° \mathcal{Y} 41'16	
				opposition	6528 Oct 01 08:58	12° \mathcal{Y} 46'44	-0°56'32
conjunction	6522 Oct 13 01:00	23° \mathcal{A} 25'53	0°44'24	min. Earth dist.	6528 Oct 02 13:59	12° \mathcal{Y} 37'19	4.10450 AU

direct	6528 Nov 30 18:57	7° Υ 50'14		direct	6534 May 30 18:06	6° Ω 51'57	
evening set	6529 Apr 05 13:33	27° Υ 01'46		evening set	6534 Oct 04 02:58	24° Ω 57'36	
max. Earth dist.	6529 Apr 17 07:12	29° Υ 49'51	6.02986 AU				
conjunction	6529 Apr 18 10:38	0° \mathcal{B} 06'16	-0°47'22	conjunction	6534 Oct 17 14:24	27° Ω 55'04	0°46'35
minimum elong	6529 Apr 18 10:37	0° \mathcal{B} 06'16	0°47'23	minimum elong	6534 Oct 17 14:22	27° Ω 55'03	0°46'36
	6529 Apr 18 00:09	0° \mathcal{B}		max. Earth dist.	6534 Oct 18 19:36	28° Ω 11'06	6.34169 AU
morning rise	6529 May 01 09:08	3° \mathcal{B} 11'47			6534 Oct 27 02:04	0° \mathcal{M}	
	6529 Jun 23 23:14	15° \mathcal{B}		morning rise	6534 Oct 31 00:34	0° \mathcal{M} 51'37	
retrograde	6529 Sep 08 13:48	23° \mathcal{B} 15'58			6535 Jan 14 22:16	15° \mathcal{M}	
opposition	6529 Nov 07 13:41	18° \mathcal{B} 18'26	-1°18'59	retrograde	6535 Mar 02 14:02	18° \mathcal{M} 15'14	
min. Earth dist.	6529 Nov 07 19:53	18° \mathcal{B} 16'23	3.96914 AU		6535 Apr 18 12:53	15° \mathcal{R} \mathcal{M}	
	6529 Dec 05 02:20	15° \mathcal{R} \mathcal{B}		opposition	6535 May 01 22:30	13° \mathcal{M} 16'22	1°15'40
direct	6530 Jan 05 11:48	13° \mathcal{B} 23'58		min. Earth dist.	6535 May 01 12:12	13° \mathcal{M} 19'46	4.40468 AU
	6530 Feb 05 15:51	15° \mathcal{B}		direct	6535 Jul 02 07:16	8° \mathcal{M} 14'30	
	6530 Apr 28 04:07	0° \mathcal{I}			6535 Sep 11 14:29	15° \mathcal{M}	
evening set	6530 May 11 16:17	3° \mathcal{I} 14'17		evening set	6535 Nov 05 10:10	25° \mathcal{M} 46'16	
conjunction	6530 May 24 19:47	6° \mathcal{I} 26'21	-0°52'27	conjunction	6535 Nov 18 15:45	28° \mathcal{M} 36'55	0°53'47
minimum elong	6530 May 24 19:48	6° \mathcal{I} 26'22	0°52'30	minimum elong	6535 Nov 18 15:45	28° \mathcal{M} 36'55	0°53'50
max. Earth dist.	6530 May 25 03:54	6° \mathcal{I} 31'18	5.92973 AU	max. Earth dist.	6535 Nov 18 16:16	28° \mathcal{M} 37'12	6.45208 AU
morning rise	6530 Jun 07 01:48	9° \mathcal{I} 39'54			6535 Nov 25 01:58	0° \mathcal{J}	
	6530 Sep 30 08:05	0° \mathcal{E}		morning rise	6535 Dec 01 18:59	1° \mathcal{J} 26'23	
retrograde	6530 Oct 17 08:12	0° \mathcal{E} 28'33		retrograde	6536 Mar 31 10:48	18° \mathcal{J} 12'09	
	6530 Nov 03 07:01	30° \mathcal{R} \mathcal{I}		opposition	6536 May 31 03:12	13° \mathcal{J} 16'39	1°15'01
opposition	6530 Dec 15 22:37	25° \mathcal{I} 27'20	-1°10'46	min. Earth dist.	6536 May 31 12:29	13° \mathcal{J} 13'39	4.48070 AU
min. Earth dist.	6530 Dec 15 04:51	25° \mathcal{I} 33'19	3.91623 AU	direct	6536 Aug 01 11:27	8° \mathcal{J} 14'37	
direct	6531 Feb 11 22:55	20° \mathcal{I} 33'07		evening set	6536 Dec 05 06:50	25° \mathcal{J} 30'58	
	6531 May 02 23:58	0° \mathcal{E}		max. Earth dist.	6536 Dec 17 02:30	28° \mathcal{J} 02'54	6.48811 AU
evening set	6531 Jun 18 09:13	10° \mathcal{E} 33'21		conjunction	6536 Dec 18 06:47	28° \mathcal{J} 18'05	0°46'21
conjunction	6531 Jul 01 20:33	13° \mathcal{E} 49'10	-0°36'37	minimum elong	6536 Dec 18 06:48	28° \mathcal{J} 18'06	0°46'24
minimum elong	6531 Jul 01 20:34	13° \mathcal{E} 49'11	0°36'40		6536 Dec 26 04:36	0° \mathcal{Z}	
max. Earth dist.	6531 Jul 03 15:37	14° \mathcal{E} 15'17	5.92905 AU	morning rise	6536 Dec 31 04:28	1° \mathcal{Z} 04'07	
morning rise	6531 Jul 15 10:26	17° \mathcal{E} 06'17		retrograde	6537 Apr 30 09:20	17° \mathcal{Z} 41'23	
	6531 Sep 11 23:24	0° \mathcal{Q}		opposition	6537 Jun 30 06:21	12° \mathcal{Z} 48'11	0°54'59
retrograde	6531 Nov 24 06:42	7° \mathcal{Q} 44'39		min. Earth dist.	6537 Jul 01 09:29	12° \mathcal{Z} 39'30	4.47554 AU
min. Earth dist.	6532 Jan 21 06:26	2° \mathcal{Q} 52'24	3.96848 AU	direct	6537 Sep 01 00:57	7° \mathcal{Z} 46'33	
opposition	6532 Jan 22 17:00	2° \mathcal{Q} 40'39	-0°33'31	evening set	6538 Jan 04 13:43	25° \mathcal{Z} 08'15	
	6532 Feb 12 13:49	30° \mathcal{R} \mathcal{E}		max. Earth dist.	6538 Jan 15 11:02	27° \mathcal{Z} 30'06	6.44179 AU
direct	6532 Mar 20 16:00	27° \mathcal{E} 44'37		conjunction	6538 Jan 17 09:48	27° \mathcal{Z} 55'34	0°26'41
	6532 Apr 26 16:35	0° \mathcal{Q}		minimum elong	6538 Jan 17 09:49	27° \mathcal{Z} 55'34	0°26'44
	6532 Jul 15 04:21	15° \mathcal{Q}			6538 Jan 26 22:15	0° \approx	
evening set	6532 Jul 25 05:36	17° \mathcal{Q} 20'39		morning rise	6538 Jan 30 03:40	0° \approx 42'01	
conjunction	6532 Aug 07 21:43	20° \mathcal{Q} 34'02	-0°06'29		6538 Apr 18 18:19	15° \approx	
minimum elong	6532 Aug 07 21:44	20° \mathcal{Q} 34'02	0°06'30	retrograde	6538 May 31 08:27	17° \approx 41'09	
behind sun begin	6532 Aug 07 13:52	20° \mathcal{Q} 29'25			6538 Jul 13 12:13	15° \mathcal{R} \approx	
behind sun end	6532 Aug 08 05:36	20° \mathcal{Q} 38'39		opposition	6538 Jul 31 07:56	12° \approx 48'46	0°20'01
max. Earth dist.	6532 Aug 10 08:28	21° \mathcal{Q} 08'41	6.02818 AU	min. Earth dist.	6538 Aug 01 20:57	12° \approx 36'58	4.39070 AU
morning rise	6532 Aug 21 15:45	23° \mathcal{Q} 48'02		direct	6538 Oct 01 19:16	7° \approx 48'17	
	6532 Sep 17 22:32	0° \mathcal{M}			6538 Dec 14 08:05	15° \approx	
asc. node	6532 Oct 25 11:22	7° \mathcal{M} 24'08		evening set	6539 Feb 04 06:35	25° \approx 35'35	
retrograde	6532 Dec 28 18:22	13° \mathcal{M} 28'32		desc. node	6539 Feb 06 03:01	26° \approx 00'17	
min. Earth dist.	6533 Feb 24 20:20	8° \mathcal{M} 36'50	4.10263 AU	max. Earth dist.	6539 Feb 14 18:02	27° \approx 56'01	6.32411 AU
opposition	6533 Feb 26 09:57	8° \mathcal{M} 24'03	0°14'54	conjunction	6539 Feb 17 00:28	28° \approx 26'32	-0°00'50
direct	6533 Apr 26 04:16	3° \mathcal{M} 25'19		minimum elong	6539 Feb 17 00:27	28° \approx 26'32	0°00'49
evening set	6533 Aug 30 17:49	22° \mathcal{M} 16'52		behind sun begin	6539 Feb 16 16:29	28° \approx 22'05	
				behind sun end	6539 Feb 17 08:25	28° \approx 30'58	
conjunction	6533 Sep 13 09:47	25° \mathcal{M} 22'57	0°24'55		6539 Feb 23 23:08	0° \mathcal{H}	
minimum elong	6533 Sep 13 09:46	25° \mathcal{M} 22'56	0°24'55	morning rise	6539 Mar 01 17:10	1° \mathcal{H} 17'09	
max. Earth dist.	6533 Sep 15 14:28	25° \mathcal{M} 52'53	6.18484 AU	retrograde	6539 Jul 03 10:53	19° \mathcal{H} 06'47	
morning rise	6533 Sep 27 01:44	28° \mathcal{M} 28'43		opposition	6539 Sep 02 05:16	14° \mathcal{H} 13'48	-0°22'36
	6533 Oct 03 20:48	0° \mathcal{E}		min. Earth dist.	6539 Sep 03 19:45	14° \mathcal{H} 01'27	4.24670 AU
retrograde	6534 Jan 30 17:31	16° \mathcal{E} 55'02		direct	6539 Nov 02 19:53	9° \mathcal{H} 15'10	
opposition	6534 Mar 31 15:55	11° \mathcal{E} 52'45	0°54'51	evening set	6540 Mar 07 08:11	27° \mathcal{H} 44'28	
min. Earth dist.	6534 Mar 30 12:48	12° \mathcal{E} 01'50	4.26603 AU		6540 Mar 17 02:17	0° \mathcal{Y}	

max. Earth dist.	6540 Mar 18 03:10	0° Υ 14'28	6.16499 AU	morning rise	6545 Oct 01 22:12	3° Ω 13'09	
				retrograde	6546 Feb 04 02:07	21° Ω 30'22	
conjunction	6540 Mar 20 02:27	0° Υ 41'56	-0°29'16	min. Earth dist.	6546 Apr 04 00:50	16° Ω 37'07	4.28577 AU
minimum elong	6540 Mar 20 02:26	0° Υ 41'55	0°29'16	opposition	6546 Apr 05 02:33	16° Ω 28'31	0°59'01
morning rise	6540 Apr 01 20:47	3° Υ 39'45		direct	6546 Jun 04 08:08	11° Ω 27'31	
retrograde	6540 Aug 07 00:42	22° Υ 40'33		evening set	6546 Oct 08 17:35	29° Ω 28'21	
opposition	6540 Oct 06 11:05	17° Υ 45'35	-1°01'06		6546 Oct 11 03:41	0° \mathbb{M}	
min. Earth dist.	6540 Oct 07 12:23	17° Υ 37'22	4.08412 AU				
direct	6540 Dec 05 15:18	12° Υ 49'23		conjunction	6546 Oct 22 04:18	2° \mathbb{M} 24'49	0°48'28
	6541 Apr 01 13:41	0° \mathcal{B}		minimum elong	6546 Oct 22 04:16	2° \mathbb{M} 24'49	0°48'30
evening set	6541 Apr 10 11:48	2° \mathcal{B} 06'37		max. Earth dist.	6546 Oct 23 05:32	2° \mathbb{M} 38'39	6.35844 AU
max. Earth dist.	6541 Apr 22 11:15	4° \mathcal{B} 58'46	6.01331 AU	morning rise	6546 Nov 04 13:29	5° \mathbb{M} 20'19	
					6546 Dec 22 05:08	15° \mathbb{M}	
conjunction	6541 Apr 23 09:33	5° \mathcal{B} 12'09	-0°49'15	retrograde	6547 Mar 06 20:23	22° \mathbb{M} 37'53	
minimum elong	6541 Apr 23 09:32	5° \mathcal{B} 12'08	0°49'17	opposition	6547 May 06 05:00	17° \mathbb{M} 39'36	1°16'50
morning rise	6541 May 06 08:49	8° \mathcal{B} 18'46		min. Earth dist.	6547 May 05 21:46	17° \mathbb{M} 41'58	4.41741 AU
	6541 Jun 04 05:01	15° \mathcal{B}			6547 May 27 14:57	15° $\mathcal{R}\mathbb{M}$	
retrograde	6541 Sep 13 23:16	28° \mathcal{B} 30'40		direct	6547 Jul 06 18:02	12° \mathbb{M} 37'44	
opposition	6541 Nov 12 21:11	23° \mathcal{B} 32'34	-1°19'48		6547 Aug 16 05:16	15° \mathbb{M}	
min. Earth dist.	6541 Nov 13 00:44	23° \mathcal{B} 31'23	3.95804 AU	evening set	6547 Nov 09 19:47	0° \mathcal{Z} 06'58	
direct	6542 Jan 10 16:22	18° \mathcal{B} 38'12			6547 Nov 09 06:43	0° \mathcal{Z}	
	6542 Apr 10 04:35	0° \mathbb{I}					
evening set	6542 May 16 20:20	8° \mathbb{I} 31'01		conjunction	6547 Nov 23 00:30	2° \mathcal{Z} 57'01	0°53'35
				minimum elong	6547 Nov 23 00:30	2° \mathcal{Z} 57'01	0°53'37
conjunction	6542 May 30 00:58	11° \mathbb{I} 43'49	-0°51'26	max. Earth dist.	6547 Nov 22 20:17	2° \mathcal{Z} 54'45	6.45992 AU
minimum elong	6542 May 30 00:59	11° \mathbb{I} 43'50	0°51'29	morning rise	6547 Dec 06 03:01	5° \mathcal{Z} 45'54	
max. Earth dist.	6542 May 30 14:43	11° \mathbb{I} 52'13	5.92511 AU	retrograde	6548 Apr 04 15:28	22° \mathcal{Z} 29'21	
morning rise	6542 Jun 12 08:05	14° \mathbb{I} 58'05		opposition	6548 Jun 04 08:32	17° \mathcal{Z} 34'18	1°13'16
	6542 Aug 21 05:31	0° \mathcal{E}		min. Earth dist.	6548 Jun 04 20:12	17° \mathcal{Z} 30'31	4.48365 AU
retrograde	6542 Oct 22 16:51	5° \mathcal{E} 47'55		direct	6548 Aug 05 18:34	12° \mathcal{Z} 32'20	
min. Earth dist.	6542 Dec 20 09:17	0° \mathcal{E} 53'14	3.91888 AU	evening set	6548 Dec 09 13:39	29° \mathcal{Z} 48'41	
opposition	6542 Dec 21 06:01	0° \mathcal{E} 46'15	-1°07'00		6548 Dec 10 10:53	0° \mathcal{Z}	
	6542 Dec 26 23:48	30° $\mathcal{R}\mathbb{I}$		max. Earth dist.	6548 Dec 21 07:40	2° \mathcal{Z} 19'50	6.48627 AU
direct	6543 Feb 17 04:27	25° \mathbb{I} 51'53					
	6543 Apr 08 21:34	0° \mathcal{E}		conjunction	6548 Dec 22 13:07	2° \mathcal{Z} 35'40	0°44'14
evening set	6543 Jun 23 15:31	15° \mathcal{E} 50'02		minimum elong	6548 Dec 22 13:08	2° \mathcal{Z} 35'41	0°44'17
				morning rise	6549 Jan 04 10:00	5° \mathcal{Z} 21'31	
conjunction	6543 Jul 07 03:33	19° \mathcal{E} 05'47	-0°32'59	retrograde	6549 May 04 15:02	22° \mathcal{Z} 00'04	
minimum elong	6543 Jul 07 03:35	19° \mathcal{E} 05'48	0°33'03	opposition	6549 Jul 04 13:37	17° \mathcal{Z} 07'09	0°50'49
max. Earth dist.	6543 Jul 09 00:26	19° \mathcal{E} 32'55	5.93840 AU	min. Earth dist.	6549 Jul 05 17:37	16° \mathcal{Z} 58'13	4.46934 AU
morning rise	6543 Jul 20 18:26	22° \mathcal{E} 22'51		direct	6549 Sep 05 07:53	12° \mathcal{Z} 05'48	
	6543 Aug 22 16:59	0° Ω		evening set	6550 Jan 08 20:26	29° \mathcal{Z} 29'26	
retrograde	6543 Nov 29 06:43	12° Ω 55'11			6550 Jan 11 04:48	0° \approx	
min. Earth dist.	6544 Jan 26 06:37	8° Ω 03'13	3.98344 AU	max. Earth dist.	6550 Jan 19 15:20	1° \approx 50'24	6.43179 AU
opposition	6544 Jan 27 18:42	7° Ω 50'55	-0°26'57				
direct	6544 Mar 25 19:05	2° Ω 54'29		conjunction	6550 Jan 21 15:53	2° \approx 16'56	0°23'11
	6544 Jun 27 13:45	15° Ω		minimum elong	6550 Jan 21 15:54	2° \approx 16'57	0°23'13
evening set	6544 Jul 30 09:05	22° Ω 25'11		morning rise	6550 Feb 03 09:31	5° \approx 03'41	
					6550 Mar 24 16:26	15° \approx	
conjunction	6544 Aug 13 01:39	25° Ω 37'49	-0°01'54	retrograde	6550 Jun 04 20:52	22° \approx 07'18	
minimum elong	6544 Aug 13 01:37	25° Ω 37'48	0°01'56	opposition	6550 Aug 04 19:38	17° \approx 14'57	0°14'20
behind sun begin	6544 Aug 12 17:13	25° Ω 32'54		min. Earth dist.	6550 Aug 06 09:43	17° \approx 02'48	4.37749 AU
behind sun end	6544 Aug 13 10:01	25° Ω 42'43			6550 Aug 23 02:36	15° $\mathcal{R}\approx$	
max. Earth dist.	6544 Aug 15 12:54	26° Ω 12'37	6.04738 AU	direct	6550 Oct 06 06:31	12° \approx 14'45	
morning rise	6544 Aug 26 19:33	28° Ω 50'52			6550 Nov 18 23:06	15° \approx	
	6544 Aug 31 18:54	0° \mathbb{P}		desc. node	6550 Dec 17 18:11	19° \approx 17'40	
asc. node	6544 Sep 04 15:41	0° \mathbb{P} 53'21		evening set	6551 Feb 08 15:25	0° \mathcal{H} 05'33	
retrograde	6545 Jan 02 12:24	18° \mathbb{P} 21'36			6551 Feb 08 05:28	0° \mathcal{H}	
min. Earth dist.	6545 Mar 01 15:44	13° \mathbb{P} 29'31	4.12384 AU	max. Earth dist.	6551 Feb 19 03:24	2° \mathcal{H} 26'46	6.30880 AU
opposition	6545 Mar 03 03:41	13° \mathbb{P} 17'19	0°21'18				
direct	6545 May 01 02:33	8° \mathbb{P} 18'16		conjunction	6551 Feb 21 09:12	2° \mathcal{H} 57'02	-0°04'55
evening set	6545 Sep 04 15:14	27° \mathbb{P} 03'37		minimum elong	6551 Feb 21 09:11	2° \mathcal{H} 57'01	0°04'53
	6545 Sep 17 15:34	0° $\underline{\Omega}$		behind sun begin	6551 Feb 21 01:25	2° \mathcal{H} 52'40	
				behind sun end	6551 Feb 21 16:57	3° \mathcal{H} 01'22	
conjunction	6545 Sep 18 06:46	0° $\underline{\Omega}$ 08'36	0°28'40	morning rise	6551 Mar 06 01:48	5° \mathcal{H} 48'14	
minimum elong	6545 Sep 18 06:45	0° $\underline{\Omega}$ 08'35	0°28'40	retrograde	6551 Jul 08 02:57	23° \mathcal{H} 44'48	
max. Earth dist.	6545 Sep 20 08:59	0° $\underline{\Omega}$ 36'58	6.20616 AU	opposition	6551 Sep 06 22:19	18° \mathcal{H} 51'37	-0°28'23

min. Earth dist.	6551 Sep 08 10:43	18° K 39'56	4.23035 AU		6557 Sep 01 13:24	0° L	
direct	6551 Nov 07 08:33	13° K 53'21		evening set	6557 Sep 09 10:14	1° L 45'13	
	6552 Mar 01 04:36	0° Y					
evening set	6552 Mar 11 21:21	2° Y 27'01		conjunction	6557 Sep 23 01:20	4° L 49'15	0°32'05
max. Earth dist.	6552 Mar 22 19:17	4° Y 59'17	6.14891 AU	minimum elong	6557 Sep 23 01:18	4° L 49'14	0°32'05
				max. Earth dist.	6557 Sep 25 00:07	5° L 15'37	6.22308 AU
conjunction	6552 Mar 24 15:43	5° Y 25'12	-0°32'40	morning rise	6557 Oct 06 16:10	7° L 52'48	
minimum elong	6552 Mar 24 15:41	5° Y 25'11	0°32'40	retrograde	6558 Feb 08 11:55	26° L 02'31	
morning rise	6552 Apr 06 10:24	8° Y 23'51		opposition	6558 Apr 09 11:50	21° L 01'04	1°02'39
retrograde	6552 Aug 12 01:36	27° Y 32'36		min. Earth dist.	6558 Apr 08 12:53	21° L 08'44	4.30168 AU
opposition	6552 Oct 11 10:04	22° Y 37'16	-1°05'01	direct	6558 Jun 08 22:20	15° L 59'51	
min. Earth dist.	6552 Oct 12 09:49	22° Y 29'32	4.06947 AU		6558 Sep 24 19:41	0° M	
direct	6552 Dec 10 11:14	17° Y 41'20		evening set	6558 Oct 13 07:04	3° M 56'52	
	6553 Mar 15 17:46	0° X					
evening set	6553 Apr 15 06:05	7° X 02'23		conjunction	6558 Oct 26 17:07	6° M 52'29	0°50'00
max. Earth dist.	6553 Apr 27 10:05	9° X 57'38	6.00147 AU	minimum elong	6558 Oct 26 17:06	6° M 52'28	0°50'03
				max. Earth dist.	6558 Oct 27 15:43	7° M 04'50	6.37220 AU
conjunction	6553 Apr 28 04:33	10° X 08'45	-0°50'41	morning rise	6558 Nov 09 01:26	9° M 47'04	
minimum elong	6553 Apr 28 04:33	10° X 08'44	0°50'43		6558 Dec 03 17:53	15° M	
morning rise	6553 May 11 04:38	13° X 16'16		retrograde	6559 Mar 11 00:16	26° M 59'15	
	6553 May 18 10:55	15° X		opposition	6559 May 10 10:45	22° M 01'20	1°17'30
	6553 Aug 01 16:55	0° II		min. Earth dist.	6559 May 10 04:54	22° M 03'15	4.42825 AU
retrograde	6553 Sep 19 02:06	3° II 34'02		direct	6559 Jul 11 01:54	16° M 59'21	
	6553 Nov 07 05:19	30° X 8			6559 Oct 23 23:05	0° X	
opposition	6553 Nov 17 23:28	28° X 35'32	-1°19'54	evening set	6559 Nov 14 04:27	4° X 26'11	
min. Earth dist.	6553 Nov 17 23:59	28° X 35'22	3.95046 AU				
direct	6554 Jan 15 14:39	23° X 41'17		conjunction	6559 Nov 27 08:23	7° X 15'38	0°53'02
	6554 Mar 20 17:38	0° II		minimum elong	6559 Nov 27 08:24	7° X 15'38	0°53'04
evening set	6554 May 21 19:38	13° II 35'44		max. Earth dist.	6559 Nov 27 01:19	7° X 11'50	6.46705 AU
				morning rise	6559 Dec 10 10:01	10° X 03'54	
conjunction	6554 Jun 04 01:05	16° II 49'05	-0°50'04	retrograde	6560 Apr 08 19:51	26° X 44'58	
minimum elong	6554 Jun 04 01:06	16° II 49'06	0°50'06	opposition	6560 Jun 08 13:32	21° X 50'13	1°11'05
max. Earth dist.	6554 Jun 04 17:17	16° II 58'58	5.92238 AU	min. Earth dist.	6560 Jun 09 03:42	21° X 45'39	4.48645 AU
morning rise	6554 Jun 17 09:23	20° II 04'00		direct	6560 Aug 10 02:13	16° X 48'15	
	6554 Jul 30 15:45	0° E			6560 Nov 24 08:58	0° Z	
retrograde	6554 Oct 27 18:14	10° E 54'29		evening set	6560 Dec 13 19:26	4° Z 04'04	
min. Earth dist.	6554 Dec 25 08:17	6° E 00'12	3.92138 AU	max. Earth dist.	6560 Dec 25 08:47	6° Z 32'54	6.48416 AU
opposition	6554 Dec 26 07:21	5° E 52'24	-1°02'54				
direct	6555 Feb 22 05:00	0° E 57'48		conjunction	6560 Dec 26 18:08	6° Z 50'51	0°41'51
evening set	6555 Jun 28 16:44	20° E 54'33		minimum elong	6560 Dec 26 18:09	6° Z 50'52	0°41'54
				morning rise	6561 Jan 08 14:33	9° Z 36'34	
conjunction	6555 Jul 12 05:50	24° E 10'23	-0°29'19	retrograde	6561 May 08 21:26	26° Z 16'20	
minimum elong	6555 Jul 12 05:51	24° E 10'24	0°29'21	opposition	6561 Jul 08 20:16	21° Z 23'30	0°46'22
max. Earth dist.	6555 Jul 14 05:54	24° E 39'24	5.94608 AU	min. Earth dist.	6561 Jul 10 02:04	21° Z 13'58	4.46221 AU
morning rise	6555 Jul 25 21:20	27° E 27'23		direct	6561 Sep 09 14:43	16° Z 22'08	
	6555 Aug 05 14:46	0° L			6561 Dec 26 06:46	0° Z	
	6555 Oct 22 02:42	15° L		evening set	6562 Jan 13 02:00	3° Z 47'50	
retrograde	6555 Dec 04 04:47	17° L 54'42		max. Earth dist.	6562 Jan 23 20:15	6° Z 08'48	6.41990 AU
	6556 Jan 16 05:57	15° R 0					
min. Earth dist.	6556 Jan 31 03:53	13° L 02'29	3.99528 AU	conjunction	6562 Jan 25 21:13	6° Z 35'38	0°19'32
opposition	6556 Feb 01 15:32	12° L 50'20	-0°20'33	minimum elong	6562 Jan 25 21:14	6° Z 35'38	0°19'34
direct	6556 Mar 30 18:05	7° L 53'34		morning rise	6562 Feb 07 14:22	9° Z 22'41	
	6556 Jun 07 18:43	15° L			6562 Mar 06 02:58	15° Z	
asc. node	6556 Jul 18 02:01	23° L 22'20		retrograde	6562 Jun 09 07:04	26° Z 31'24	
evening set	6556 Aug 04 08:34	27° L 20'26		opposition	6562 Aug 09 06:40	21° Z 39'00	0°08'30
	6556 Aug 15 17:48	0° M		min. Earth dist.	6562 Aug 10 20:48	21° Z 26'51	4.36130 AU
				direct	6562 Oct 10 14:36	16° Z 39'00	
conjunction	6556 Aug 18 01:22	0° M 32'30	0°02'35	desc. node	6562 Oct 27 19:20	17° Z 05'48	
minimum elong	6556 Aug 18 01:21	0° M 32'29	0°02'33		6563 Jan 23 02:54	0° K	
behind sun begin	6556 Aug 17 16:58	0° M 27'36		evening set	6563 Feb 13 00:06	4° K 34'25	
behind sun end	6556 Aug 18 09:44	0° M 37'22		max. Earth dist.	6563 Feb 23 11:23	6° K 55'55	6.28930 AU
max. Earth dist.	6556 Aug 20 12:32	1° M 07'05	6.06227 AU				
morning rise	6556 Aug 31 19:27	3° M 44'53		conjunction	6563 Feb 25 17:37	7° K 26'35	-0°08'58
retrograde	6557 Jan 07 01:48	23° M 07'43		minimum elong	6563 Feb 25 17:37	7° K 26'35	0°08'57
min. Earth dist.	6557 Mar 06 06:16	18° M 15'51	4.14037 AU	behind sun begin	6563 Feb 25 10:46	7° K 22'44	
opposition	6557 Mar 07 18:14	18° M 03'40	0°27'15	behind sun end	6563 Feb 26 00:28	7° K 30'26	
direct	6557 May 05 19:32	13° M 04'17		morning rise	6563 Mar 10 10:25	10° K 18'37	

retrograde	6563 Jul 12 23:24	28° K 23'56		retrograde	6569 Jan 11 19:12	28° M 01'19	
opposition	6563 Sep 11 16:34	23° K 30'31 -0°34'09		min. Earth dist.	6569 Mar 11 01:25	23° M 09'08	4.16368 AU
min. Earth dist.	6563 Sep 13 04:39	23° K 18'54 4.20860 AU		opposition	6569 Mar 12 11:47	22° M 57'30	0°33'16
direct	6563 Nov 11 23:31	18° K 32'29		direct	6569 May 10 18:21	17° M 57'49	
	6564 Feb 13 05:02	0° Y			6569 Aug 15 02:51	0° L	
evening set	6564 Mar 16 11:49	7° Y 12'33		evening set	6569 Sep 14 07:14	6° L 31'47	
max. Earth dist.	6564 Mar 27 12:46	9° Y 47'17 6.12677 AU					
				conjunction	6569 Sep 27 21:52	9° L 34'33	0°35'24
conjunction	6564 Mar 29 06:38	10° Y 11'49 -0°35'58		minimum elong	6569 Sep 27 21:50	9° L 34'32	0°35'24
minimum elong	6564 Mar 29 06:37	10° Y 11'49 0°35'59		max. Earth dist.	6569 Sep 29 19:44	10° L 00'15	6.24734 AU
morning rise	6564 Apr 11 01:46	13° Y 11'38		morning rise	6569 Oct 11 11:47	12° L 36'40	
	6564 Jul 07 14:53	0° B			6570 Jan 24 09:12	0° M	
retrograde	6564 Aug 17 04:33	2° B 30'43		retrograde	6570 Feb 12 19:25	0° M 36'20	
	6564 Sep 27 02:38	30° R Y			6570 Mar 04 03:06	30° R L	
opposition	6564 Oct 16 11:48	27° Y 35'03 -1°08'41		opposition	6570 Apr 13 21:42	25° L 35'21	1°05'59
min. Earth dist.	6564 Oct 17 08:42	27° Y 28'14 4.04899 AU		min. Earth dist.	6570 Apr 12 23:47	25° L 42'39	4.32489 AU
direct	6564 Dec 15 06:48	22° Y 39'27		direct	6570 Jun 13 11:33	20° L 34'01	
	6565 Feb 24 00:52	0° B			6570 Sep 06 21:32	0° M	
evening set	6565 Apr 20 04:30	12° B 06'42		evening set	6570 Oct 17 19:58	8° M 24'46	
	6565 May 02 04:10	15° B					
				conjunction	6570 Oct 31 04:58	11° M 19'10	0°51'18
conjunction	6565 May 03 03:40	15° B 14'12 -0°51'49		minimum elong	6570 Oct 31 04:58	11° M 19'10	0°51'20
minimum elong	6565 May 03 03:39	15° B 14'11 0°51'52		max. Earth dist.	6570 Oct 31 22:42	11° M 28'49	6.39256 AU
max. Earth dist.	6565 May 02 12:26	15° B 05'00 5.98447 AU		morning rise	6570 Nov 13 12:21	14° M 12'32	
morning rise	6565 May 16 04:51	18° B 22'58			6570 Nov 17 04:30	15° M	
	6565 Jul 07 06:02	0° II			6571 Feb 14 05:53	0° J	
retrograde	6565 Sep 24 10:15	8° II 48'40		retrograde	6571 Mar 15 04:43	1° J 17'38	
opposition	6565 Nov 23 06:25	3° II 49'40 -1°19'29			6571 Apr 12 22:48	30° R M	
min. Earth dist.	6565 Nov 23 03:26	3° II 50'39 3.93881 AU		opposition	6571 May 14 15:32	26° M 20'12	1°17'46
	6565 Dec 26 09:28	30° R B		min. Earth dist.	6571 May 14 13:19	26° M 20'55	4.44435 AU
direct	6566 Jan 20 18:18	28° B 55'29		direct	6571 Jul 15 11:34	21° M 18'09	
	6566 Feb 15 00:29	0° II			6571 Oct 06 05:06	0° J	
evening set	6566 May 27 00:26	18° II 53'09		evening set	6571 Nov 18 10:47	8° J 41'01	
conjunction	6566 Jun 09 07:12	22° II 07'20 -0°48'15		conjunction	6571 Dec 01 13:58	11° J 29'46	0°52'14
minimum elong	6566 Jun 09 07:14	22° II 07'21 0°48'18		minimum elong	6571 Dec 01 13:58	11° J 29'46	0°52'17
max. Earth dist.	6566 Jun 10 05:37	22° II 21'01 5.91740 AU		max. Earth dist.	6571 Dec 01 03:08	11° J 23'57	6.47758 AU
morning rise	6566 Jun 22 16:32	25° II 23'00		morning rise	6571 Dec 14 14:41	14° J 17'17	
	6566 Jul 12 01:47	0° B			6572 Mar 19 09:23	0° B	
retrograde	6566 Nov 02 03:27	16° B 14'38		retrograde	6572 Apr 12 20:40	0° B 55'23	
opposition	6566 Dec 31 14:29	11° B 12'10 -0°58'07			6572 May 07 07:11	30° R J	
min. Earth dist.	6566 Dec 30 13:40	11° B 20'35 3.92378 AU		opposition	6572 Jun 12 16:06	26° J 00'56	1°08'37
direct	6567 Feb 27 11:21	6° B 17'26		min. Earth dist.	6572 Jun 13 08:17	25° J 55'43	4.49086 AU
evening set	6567 Jul 04 00:00	26° B 12'37		direct	6572 Aug 14 05:48	20° J 58'57	
					6572 Nov 07 03:40	0° B	
conjunction	6567 Jul 17 13:51	29° B 28'24 -0°25'12		evening set	6572 Dec 17 22:25	8° B 14'03	
minimum elong	6567 Jul 17 13:53	29° B 28'25 0°25'14		max. Earth dist.	6572 Dec 29 08:44	10° B 41'22	6.48205 AU
	6567 Jul 19 18:24	0° L					
max. Earth dist.	6567 Jul 19 16:56	29° B 59'07 5.95555 AU		conjunction	6572 Dec 30 20:33	11° B 00'40	0°39'20
morning rise	6567 Jul 31 06:13	2° L 45'17		minimum elong	6572 Dec 30 20:34	11° B 00'41	0°39'23
	6567 Sep 24 23:37	15° L		morning rise	6573 Jan 12 16:16	13° B 46'14	
retrograde	6567 Dec 09 05:28	23° L 06'14			6573 Apr 25 18:45	0° \approx	
min. Earth dist.	6568 Feb 05 03:27	18° L 14'37 4.01096 AU		retrograde	6573 May 13 01:37	0° \approx 27'39	
opposition	6568 Feb 06 17:04	18° L 01'48 -0°13'39			6573 May 30 07:44	30° R B	
	6568 Mar 01 18:21	15° R L		opposition	6573 Jul 13 00:43	25° B 34'59	0°41'47
direct	6568 Apr 04 20:40	13° L 04'45		min. Earth dist.	6573 Jul 14 08:56	25° B 24'42	4.45348 AU
	6568 May 09 02:55	15° L		direct	6573 Sep 13 19:01	20° B 33'44	
asc. node	6568 May 27 16:31	17° L 25'45			6573 Dec 09 07:10	0° \approx	
	6568 Jul 29 22:27	0° M		evening set	6574 Jan 17 05:20	8° \approx 02'11	
evening set	6568 Aug 09 12:52	2° M 26'15		max. Earth dist.	6574 Jan 27 19:33	10° \approx 21'29	6.40495 AU
conjunction	6568 Aug 23 05:40	5° M 37'23 0°07'09		conjunction	6574 Jan 30 00:05	10° \approx 50'23	0°15'52
minimum elong	6568 Aug 23 05:39	5° M 37'22 0°07'08		minimum elong	6574 Jan 30 00:06	10° \approx 50'23	0°15'54
behind sun begin	6568 Aug 22 21:57	5° M 32'54		behind sun begin	6574 Jan 29 22:39	10° \approx 49'36	
behind sun end	6568 Aug 23 13:20	5° M 41'49		behind sun end	6574 Jan 30 01:32	10° \approx 51'11	
max. Earth dist.	6568 Aug 25 15:58	6° M 11'18 6.08283 AU		morning rise	6574 Feb 11 17:13	13° \approx 37'57	
morning rise	6568 Sep 05 23:37	8° M 48'43			6574 Feb 17 23:50	15° \approx	

	6574 May 20 17:10	0°♏	retrograde	6579 Dec 14 07:41	28°♏20'24	
retrograde	6574 Jun 13 18:31	0°♏53'14	min. Earth dist.	6580 Feb 10 05:55	23°♏28'37	4.03088 AU
	6574 Jul 07 19:42	30°♏	opposition	6580 Feb 11 19:37	23°♏15'46	-0°06'36
opposition	6574 Aug 13 16:41	26°♏00'44 0°02'43	asc. node	6580 Apr 05 12:09	18°♏20'27	
min. Earth dist.	6574 Aug 15 07:50	25°♏48'13 4.34079 AU	direct	6580 Apr 10 03:32	18°♏18'14	
desc. node	6574 Sep 07 21:29	23°♏00'54		6580 Jul 11 19:47	0°♏	
direct	6574 Oct 14 21:50	21°♏00'50	evening set	6580 Aug 14 17:40	7°♏32'38	
	6575 Jan 05 14:13	0°♏				
evening set	6575 Feb 17 07:47	9°♏02'28	conjunction	6580 Aug 28 10:32	10°♏42'38 0°11'40	
max. Earth dist.	6575 Feb 27 20:17	11°♏25'22 6.26482 AU	minimum elong	6580 Aug 28 10:31	10°♏42'37 0°11'40	
			behind sun begin	6580 Aug 28 04:42	10°♏39'16	
conjunction	6575 Mar 02 01:33	11°♏55'38 -0°12'57	behind sun end	6580 Aug 28 16:21	10°♏45'58	
minimum elong	6575 Mar 02 01:32	11°♏55'38 0°12'56	max. Earth dist.	6580 Aug 30 21:55	11°♏16'58 6.10703 AU	
behind sun begin	6575 Mar 01 20:33	11°♏52'49	morning rise	6580 Sep 11 04:04	13°♏52'39	
behind sun end	6575 Mar 02 06:30	11°♏58'27		6580 Dec 04 04:04	0°♏	
morning rise	6575 Mar 14 18:23	14°♏48'43	retrograde	6581 Jan 16 10:50	2°♏53'39	
	6575 Jun 02 08:09	0°♏		6581 Feb 28 15:30	30°♏	
retrograde	6575 Jul 17 19:07	3°♏04'40	min. Earth dist.	6581 Mar 15 19:23	28°♏01'29 4.18947 AU	
	6575 Sep 01 23:52	30°♏	opposition	6581 Mar 17 05:06	27°♏50'06 0°39'01	
opposition	6575 Sep 16 10:57	28°♏11'02 -0°39'44	direct	6581 May 15 15:28	22°♏50'08	
min. Earth dist.	6575 Sep 17 22:00	27°♏59'44 4.18182 AU		6581 Jul 26 03:10	0°♏	
direct	6575 Nov 16 12:13	23°♏13'19	evening set	6581 Sep 19 03:57	11°♏16'29	
	6576 Jan 24 12:29	0°♏				
evening set	6576 Mar 21 03:39	12°♏01'45	conjunction	6581 Oct 02 17:42	14°♏17'50 0°38'31	
max. Earth dist.	6576 Apr 01 06:36	14°♏38'38 6.09992 AU	minimum elong	6581 Oct 02 17:40	14°♏17'49 0°38'32	
			max. Earth dist.	6581 Oct 04 10:47	14°♏40'44 6.27234 AU	
conjunction	6576 Apr 02 22:49	15°♏02'21 -0°39'02	morning rise	6581 Oct 16 06:52	17°♏18'32	
minimum elong	6576 Apr 02 22:48	15°♏02'20 0°39'02		6581 Dec 19 15:10	0°♏	
morning rise	6576 Apr 15 18:49	18°♏03'40	retrograde	6582 Feb 17 03:57	5°♏08'22	
	6576 Jun 10 02:38	0°♏	opposition	6582 Apr 18 07:22	0°♏07'51 1°08'56	
retrograde	6576 Aug 22 10:13	7°♏35'02	min. Earth dist.	6582 Apr 17 12:44	0°♏14'02 4.34718 AU	
opposition	6576 Oct 21 15:42	2°♏38'54 -1°11'55		6582 Apr 19 06:58	30°♏	
min. Earth dist.	6576 Oct 22 09:28	2°♏33'05 4.02445 AU	direct	6582 Jun 18 02:34	25°♏06'20	
	6576 Nov 12 00:29	30°♏		6582 Aug 16 05:50	0°♏	
direct	6576 Dec 20 05:46	27°♏43'32	evening set	6582 Oct 22 08:40	12°♏51'26	
	6577 Jan 26 22:01	0°♏		6582 Nov 01 06:24	15°♏	
	6577 Apr 15 13:46	15°♏				
evening set	6577 Apr 25 05:30	17°♏18'27	conjunction	6582 Nov 04 16:58	15°♏44'48 0°52'19	
			minimum elong	6582 Nov 04 16:57	15°♏44'48 0°52'21	
conjunction	6577 May 08 05:51	20°♏27'21 -0°52'34	max. Earth dist.	6582 Nov 05 07:45	15°♏52'49 6.41054 AU	
minimum elong	6577 May 08 05:51	20°♏27'21 0°52'37	morning rise	6582 Nov 17 23:11	18°♏37'02	
max. Earth dist.	6577 May 07 21:08	20°♏22'03 5.96481 AU		6583 Jan 15 08:47	0°♏	
morning rise	6577 May 21 08:04	23°♏37'32	retrograde	6583 Mar 19 07:33	5°♏36'07	
	6577 Jun 17 12:13	0°♏	opposition	6583 May 18 20:39	0°♏39'10 1°17'39	
retrograde	6577 Sep 29 23:43	14°♏11'50	min. Earth dist.	6583 May 18 20:27	0°♏39'14 4.45708 AU	
opposition	6577 Nov 28 16:41	9°♏12'19 -1°18'22		6583 May 23 21:15	30°♏	
min. Earth dist.	6577 Nov 28 10:33	9°♏14'22 3.92642 AU	direct	6583 Jul 19 19:08	25°♏37'09	
direct	6578 Jan 26 01:03	4°♏18'14		6583 Sep 14 08:14	0°♏	
evening set	6578 Jun 01 08:59	24°♏19'02	evening set	6583 Nov 22 18:05	12°♏57'21	
conjunction	6578 Jun 14 16:49	27°♏33'57 -0°45'58	conjunction	6583 Dec 05 20:21	15°♏45'31 0°51'11	
minimum elong	6578 Jun 14 16:51	27°♏33'58 0°46'02	minimum elong	6583 Dec 05 20:22	15°♏45'31 0°51'14	
max. Earth dist.	6578 Jun 15 19:55	27°♏50'29 5.91345 AU	max. Earth dist.	6583 Dec 05 04:35	15°♏37'03 6.48413 AU	
	6578 Jun 24 16:28	0°♏	morning rise	6583 Dec 18 20:21	18°♏32'31	
morning rise	6578 Jun 28 03:33	0°♏50'24		6584 Feb 16 14:49	0°♏	
retrograde	6578 Nov 07 12:18	21°♏41'47	retrograde	6584 Apr 17 01:42	5°♏09'08	
opposition	6579 Jan 05 23:51	16°♏38'51 -0°52'42	opposition	6584 Jun 16 20:51	0°♏15'04 1°05'47	
min. Earth dist.	6579 Jan 04 19:03	16°♏48'37 3.92894 AU	min. Earth dist.	6584 Jun 17 16:37	0°♏08'43 4.49097 AU	
direct	6579 Mar 04 19:19	11°♏43'50		6584 Jun 18 19:44	30°♏	
	6579 Jul 02 16:11	0°♏	direct	6584 Aug 18 12:54	25°♏13'10	
evening set	6579 Jul 09 10:01	1°♏36'04		6584 Oct 17 01:33	0°♏	
			evening set	6584 Dec 22 03:28	12°♏28'54	
conjunction	6579 Jul 23 00:35	4°♏51'31 -0°20'48	max. Earth dist.	6585 Jan 02 09:27	14°♏54'10 6.47559 AU	
minimum elong	6579 Jul 23 00:36	4°♏51'32 0°20'50				
max. Earth dist.	6579 Jul 25 06:16	5°♏23'41 5.96910 AU	conjunction	6585 Jan 04 01:04	15°♏15'33 0°36'33	
morning rise	6579 Aug 05 17:31	8°♏07'58	minimum elong	6585 Jan 04 01:05	15°♏15'34 0°36'35	
	6579 Sep 04 13:49	15°♏	morning rise	6585 Jan 16 20:21	18°♏01'12	

	6585 Mar 20 10:56	0°♊		retrograde	6590 Nov 12 19:43	27°♊04'43	
retrograde	6585 May 17 09:04	4°♊45'50		min. Earth dist.	6591 Jan 10 00:36	22°♊11'42	3.94078 AU
	6585 Jul 16 11:18	30°♊♎		opposition	6591 Jan 11 07:04	22°♊01'21	-0°46'58
opposition	6585 Jul 17 08:24	29°♊53'16	0°36'51	direct	6591 Mar 10 04:25	17°♊06'01	
min. Earth dist.	6585 Jul 18 17:43	29°♊42'37	4.44092 AU		6591 Jun 14 20:58	0°♊	
direct	6585 Sep 18 00:43	24°♊52'10		evening set	6591 Jul 14 17:04	6°♊52'58	
	6585 Nov 18 12:13	0°♊					
evening set	6586 Jan 21 12:03	12°♊24'37		conjunction	6591 Jul 28 08:19	10°♊07'49	-0°16'22
max. Earth dist.	6586 Feb 01 02:04	14°♊44'21	6.38719 AU	minimum elong	6591 Jul 28 08:20	10°♊07'50	0°16'25
	6586 Feb 02 06:22	15°♊		max. Earth dist.	6591 Jul 30 17:34	10°♊41'57	5.98773 AU
				morning rise	6591 Aug 11 01:32	13°♊23'30	
conjunction	6586 Feb 03 06:39	15°♊13'25	0°11'58		6591 Aug 17 21:45	15°♊	
minimum elong	6586 Feb 03 06:39	15°♊13'25	0°12'01		6591 Nov 02 03:25	0°♊	
behind sun begin	6586 Feb 03 01:10	15°♊10'24		retrograde	6591 Dec 19 05:41	3°♊25'43	
behind sun end	6586 Feb 03 12:09	15°♊16'26			6592 Feb 04 10:11	30°♊♎	
morning rise	6586 Feb 15 23:29	18°♊01'36		asc. node	6592 Feb 14 19:08	28°♊37'05	
	6586 Apr 17 13:24	0°♊		min. Earth dist.	6592 Feb 15 04:05	28°♊34'03	4.05408 AU
retrograde	6586 Jun 18 09:50	5°♊24'25		opposition	6592 Feb 16 18:10	28°♊21'06	0°00'14
desc. node	6586 Jul 18 09:39	4°♊02'39		direct	6592 Apr 15 04:48	23°♊23'12	
opposition	6586 Aug 18 06:48	0°♊31'55	-0°03'20		6592 Jun 21 02:59	0°♊	
min. Earth dist.	6586 Aug 19 22:40	0°♊19'11	4.31884 AU	evening set	6592 Aug 19 18:39	12°♊29'50	
	6586 Aug 22 10:50	30°♊♎					
direct	6586 Oct 19 08:42	25°♊32'21		conjunction	6592 Sep 02 11:07	15°♊38'31	0°15'58
	6586 Dec 14 09:21	0°♊		minimum elong	6592 Sep 02 11:06	15°♊38'30	0°15'56
evening set	6587 Feb 21 19:40	13°♊40'40		max. Earth dist.	6592 Sep 04 19:35	16°♊10'59	6.13243 AU
max. Earth dist.	6587 Mar 04 07:39	16°♊04'08	6.24031 AU	morning rise	6592 Sep 16 04:23	18°♊47'12	
					6592 Nov 08 11:11	0°♊	
conjunction	6587 Mar 06 13:22	16°♊34'50	-0°17'00	retrograde	6593 Jan 20 21:53	7°♊36'46	
minimum elong	6587 Mar 06 13:21	16°♊34'50	0°17'00	min. Earth dist.	6593 Mar 20 10:37	2°♊44'12	4.21462 AU
morning rise	6587 Mar 19 06:40	19°♊29'05		opposition	6593 Mar 21 18:18	2°♊33'31	0°44'17
	6587 May 07 23:23	0°♊			6593 Apr 10 18:40	30°♊♎	
retrograde	6587 Jul 22 19:32	7°♊55'58		direct	6593 May 20 09:27	27°♊33'14	
opposition	6587 Sep 21 09:55	3°♊02'04	-0°45'17		6593 Jun 29 09:03	0°♊	
min. Earth dist.	6587 Sep 22 18:51	2°♊51'25	4.15657 AU	evening set	6593 Sep 23 20:35	15°♊52'34	
	6587 Oct 16 17:20	30°♊♎					
direct	6587 Nov 21 05:56	28°♊04'43		conjunction	6593 Oct 07 09:49	18°♊52'40	0°41'16
	6587 Dec 26 11:07	0°♊		minimum elong	6593 Oct 07 09:47	18°♊52'39	0°41'18
evening set	6588 Mar 25 23:08	17°♊00'55		max. Earth dist.	6593 Oct 09 00:13	19°♊13'59	6.29534 AU
max. Earth dist.	6588 Apr 06 07:49	19°♊41'57	6.07639 AU	morning rise	6593 Oct 20 21:55	21°♊51'59	
					6593 Nov 28 18:31	0°♊	
conjunction	6588 Apr 07 19:00	20°♊02'48	-0°41'56	retrograde	6594 Feb 21 08:53	9°♊33'04	
minimum elong	6588 Apr 07 18:58	20°♊02'47	0°41'58	opposition	6594 Apr 22 13:54	4°♊33'04	1°11'24
morning rise	6588 Apr 20 15:32	23°♊05'25		min. Earth dist.	6594 Apr 21 21:42	4°♊38'26	4.36634 AU
	6588 May 20 21:41	0°♊			6594 Jun 05 03:26	30°♊♎	
retrograde	6588 Aug 27 20:18	12°♊47'44		direct	6594 Jun 22 13:24	29°♊31'28	
opposition	6588 Oct 26 22:57	7°♊51'17	-1°14'42		6594 Jul 10 03:28	0°♊	
min. Earth dist.	6588 Oct 27 13:57	7°♊46'21	4.00521 AU		6594 Oct 16 10:42	15°♊	
direct	6588 Dec 25 08:25	2°♊56'17		evening set	6594 Oct 26 18:25	17°♊12'01	
	6589 Mar 28 15:42	15°♊					
evening set	6589 Apr 30 09:22	22°♊36'45		conjunction	6594 Nov 09 01:44	20°♊04'28	0°53'02
				minimum elong	6594 Nov 09 01:43	20°♊04'28	0°53'04
conjunction	6589 May 13 10:32	25°♊46'41	-0°52'57	max. Earth dist.	6594 Nov 09 10:30	20°♊09'13	6.42441 AU
minimum elong	6589 May 13 10:32	25°♊46'41	0°52'59	morning rise	6594 Nov 22 07:13	22°♊55'50	
max. Earth dist.	6589 May 13 06:11	25°♊44'03	5.95179 AU		6594 Dec 26 14:50	0°♊	
morning rise	6589 May 26 14:02	28°♊58'02		retrograde	6595 Mar 23 10:41	9°♊50'29	
	6589 May 30 20:57	0°♊		opposition	6595 May 23 00:16	4°♊53'58	1°17'10
retrograde	6589 Oct 05 10:24	19°♊37'48		min. Earth dist.	6595 May 23 03:47	4°♊52'50	4.46508 AU
opposition	6589 Dec 04 03:14	14°♊37'45	-1°16'35		6595 Jul 14 16:42	30°♊♎	
min. Earth dist.	6589 Dec 03 16:14	14°♊41'26	3.92155 AU	direct	6595 Jul 24 02:25	29°♊51'53	
direct	6590 Jan 31 07:30	9°♊43'42			6595 Aug 02 13:08	0°♊	
evening set	6590 Jun 06 17:29	29°♊44'48		evening set	6595 Nov 26 23:41	17°♊10'48	
	6590 Jun 07 18:34	0°♊		max. Earth dist.	6595 Dec 09 06:42	19°♊48'37	6.48579 AU
conjunction	6590 Jun 20 02:24	3°♊00'04	-0°43'21	conjunction	6595 Dec 10 01:25	19°♊58'40	0°49'53
minimum elong	6590 Jun 20 02:26	3°♊00'05	0°43'24	minimum elong	6595 Dec 10 01:26	19°♊58'40	0°49'56
max. Earth dist.	6590 Jun 21 10:46	3°♊19'48	5.91721 AU	morning rise	6595 Dec 23 00:34	22°♊45'20	
morning rise	6590 Jul 03 14:06	6°♊16'47			6596 Jan 27 13:17	0°♊	

retrograde	6596 Apr 21 04:18	9°♄21'57	opposition	6601 Dec 10 11:29	19°♄56'46 -1°14'09
opposition	6596 Jun 21 00:58	4°♄28'10 1°02'41	min. Earth dist.	6601 Dec 09 22:04	20°♄01'16 3.91981 AU
min. Earth dist.	6596 Jun 21 22:13	4°♄21'21 4.48646 AU			
	6596 Aug 03 08:31	30°♄♂			
direct	6596 Aug 22 16:50	29°♄♂26'22			
	6596 Sep 11 06:06	0°♄			
evening set	6596 Dec 26 08:32	16°♄44'02			
max. Earth dist.	6597 Jan 06 11:27	19°♄08'03 6.46530 AU			
conjunction	6597 Jan 08 05:35	19°♄30'52 0°33'37			
minimum elong	6597 Jan 08 05:36	19°♄30'53 0°33'40			
morning rise	6597 Jan 21 00:28	22°♄16'47			
	6597 Feb 27 15:47	0°♄			
retrograde	6597 May 21 18:56	9°♄♂05'42			
opposition	6597 Jul 21 17:04	4°♄♂13'16 0°31'44			
min. Earth dist.	6597 Jul 23 04:38	4°♄♂01'55 4.42545 AU			
	6597 Aug 30 06:32	30°♄♂			
direct	6597 Sep 22 09:10	29°♄♂12'20			
	6597 Oct 15 12:38	0°♄			
	6598 Jan 17 11:05	15°♄			
evening set	6598 Jan 25 19:32	16°♄♂49'25			
max. Earth dist.	6598 Feb 05 07:42	19°♄♂08'48 6.36770 AU			
conjunction	6598 Feb 07 13:53	19°♄♂38'52 0°08'02			
minimum elong	6598 Feb 07 13:54	19°♄♂38'52 0°08'04			
behind sun begin	6598 Feb 07 06:47	19°♄♂34'57			
behind sun end	6598 Feb 07 21:00	19°♄♂42'48			
morning rise	6598 Feb 20 06:45	22°♄♂27'49			
	6598 Mar 27 22:18	0°♄♂			
desc. node	6598 May 28 04:33	8°♄♂57'01			
retrograde	6598 Jun 23 01:30	9°♄♂58'43			
opposition	6598 Aug 22 22:28	5°♄♂06'02 -0°09'24			
min. Earth dist.	6598 Aug 24 13:07	4°♄♂53'40 4.29662 AU			
direct	6598 Oct 23 20:05	0°♄♂06'45			
evening set	6599 Feb 26 08:37	18°♄♂21'30			
max. Earth dist.	6599 Mar 09 00:02	20°♄♂47'39 6.21722 AU			
conjunction	6599 Mar 11 02:30	21°♄♂16'39 -0°20'58			
minimum elong	6599 Mar 11 02:29	21°♄♂16'39 0°20'57			
morning rise	6599 Mar 23 19:55	24°♄♂11'56			
	6599 Apr 18 21:05	0°♄♂			
retrograde	6599 Jul 27 21:14	12°♄♂48'56			
opposition	6599 Sep 26 09:48	7°♄♂54'46 -0°50'32			
min. Earth dist.	6599 Sep 27 17:22	7°♄♂44'33 4.13438 AU			
direct	6599 Nov 26 02:08	2°♄♂57'47			
evening set	6600 Mar 31 19:18	22°♄♂00'18			
max. Earth dist.	6600 Apr 12 07:03	24°♄♂43'54 6.05696 AU			
conjunction	6600 Apr 13 15:34	25°♄♂03'15 -0°44'32			
minimum elong	6600 Apr 13 15:32	25°♄♂03'14 0°44'34			
morning rise	6600 Apr 26 12:59	28°♄♂07'04			
	6600 May 04 12:54	0°♄♂			
	6600 Jul 21 01:07	15°♄♂			
retrograde	6600 Sep 03 02:57	17°♄♂58'22			
	6600 Oct 17 18:14	15°♄♂			
opposition	6600 Nov 02 05:16	13°♄♂01'24 -1°16'51			
min. Earth dist.	6600 Nov 02 15:51	12°♄♂57'56 3.99046 AU			
direct	6600 Dec 31 09:37	8°♄♂06'38			
	6601 Mar 09 02:43	15°♄♂			
evening set	6601 May 06 12:00	27°♄♂50'54			
	6601 May 15 08:49	0°♄♂			
conjunction	6601 May 19 14:10	1°♄♂01'42 -0°52'52			
minimum elong	6601 May 19 14:10	1°♄♂01'42 0°52'55			
max. Earth dist.	6601 May 19 15:43	1°♄♂02'39 5.94308 AU			
morning rise	6601 Jun 01 18:38	4°♄♂13'55			
retrograde	6601 Oct 11 19:46	24°♄♂57'20			