	14100 F 1 21 22 22	1.001/ =====		pp -1 -11	1410734 42 00 00	20002	21 40700 : **
evening set	14100 Feb 21 09:01	16° <b>¥</b> 52′29		max. Earth dist.	14107 Mar 13 09:06	3°'Y'37'19	31.49708 AU
max. Earth dist.	14100 Feb 23 03:55	16° <b>¥</b> 56′27	32.64281 AU				
				conjunction	14107 Mar 15 05:17	3° <b>Ƴ</b> 41'36	15°30'44
conjunction	14100 Feb 25 08:34	17° <b>₩</b> 01'18	14°32'19	minimum elong	14107 Mar 15 05:21	3° <b>Ƴ</b> 41'37	15°30'46
minimum elong	14100 Feb 25 08:25	17° <b>米</b> 01'17	14°32'41	retrograde	14107 Jun 28 10:42	6° <b>Ƴ</b> 18'37	
morning rise	14100 Mar 01 07:47	17° <b>₩</b> 10'04		opposition	14107 Sep 13 09:14	4° <b>Y</b> 56′02	16°34'36
retrograde	14100 Jun 10 11:59	19° <b>)</b> € 30'36		min. Earth dist.	14107 Sep 14 24:00	4° <b>℃</b> 53'18	29.50748 AU
opposition	14100 Aug 26 22:59	18° <b>¥</b> 09'55	15°35'22	direct	14107 Nov 30 23:42	3°Υ31'35	
min. Earth dist.	14100 Aug 28 21:29		30.61813 AU	max. Earth dist.	14107 Nov 30 25:42 14108 Mar 15 06:23		31.36448 AU
	=		30.01813 AU	max. Earth dist.	14106 Mai 13 00.23	0 10040	31.30446 AU
direct	14100 Nov 13 21:47	16° <b>)</b> 47'40			1410034 15 00 00	co <b>0</b> 01 014 5	1.500.011.5
evening set	14101 Feb 24 23:43	19° <b>米</b> 11'57		conjunction	14108 Mar 17 00:26	6° <b>Y</b> 10'45	15°33'15
max. Earth dist.	14101 Feb 25 18:46	19° <b>米</b> 13'44	32.45802 AU	minimum elong	14108 Mar 17 00:30	6° <b>Y</b> 10'46	15°33'16
				retrograde	14108 Jun 30 04:22	8° <b>Y</b> 48'34	
conjunction	14101 Feb 27 23:02	19° <b>∺</b> 18'35	14°44'36	opposition	14108 Sep 15 02:54	7° <b>Y</b> 25'43	16°36'42
minimum elong	14101 Feb 27 22:56	19° <b>₩</b> 18'35	14°44'54	min. Earth dist.	14108 Sep 16 16:59	7° <b>Y</b> 23′02	29.37999 AU
morning rise	14101 Mar 02 22:08	19° <b>∺</b> 25'12		direct	14108 Dec 02 16:57	6° <b>Ƴ</b> 01'01	
retrograde	14101 Jun 13 03:43	21° <b>)</b> 49'11		max. Earth dist.	14109 Mar 18 03:54	8° <b>Ƴ</b> 37'07	31.24161 AU
opposition	14101 Aug 29 12:00	20° <b>)</b> 28'13	15°48'06				
min. Earth dist.	14101 Aug 31 10:30		30.43883 AU	conjunction	14109 Mar 19 19:57	8° <b>Y</b> 41'02	15°34'08
direct	=	19° <b>X</b> 05'38	30.43663 AU			8° <b>Y</b> 41'03	15°34'05
	14101 Nov 16 08:12			minimum elong	14109 Mar 19 20:03		15*34*05
evening set	14102 Mar 01 01:13	21° <b>∺</b> 34′27		retrograde	14109 Jul 03 00:49	11° <b>Y</b> 19'34	
max. Earth dist.	14102 Feb 28 12:19	21° <b>X</b> 33'14	32.28023 AU	opposition	14109 Sep 17 21:03	9° <b>Y</b> 56'30	
				min. Earth dist.	14109 Sep 19 08:13	9° <b>Ƴ</b> 54'01	29.26224 AU
conjunction	14102 Mar 02 14:25	21° <b>)</b> ₹37′56	14°55'40	direct	14109 Dec 05 12:11	8° <b>Ƴ</b> 31'33	
minimum elong	14102 Mar 02 14:19	21° <b>)</b> 37'56	14°55'56	max. Earth dist.	14110 Mar 21 01:42	11° <b>Ƴ</b> 08'37	31.12897 AU
morning rise	14102 Mar 04 03:24	21° <b>)</b> 41'24					
retrograde	14102 Jun 15 20:21	24° <b>)</b> €09'45		conjunction	14110 Mar 22 15:49	11° <b>Ƴ</b> 12'21	15°33'20
opposition	14102 Sep 01 01:42	22° <b>)</b> (48'31	15°59'32	minimum elong	14110 Mar 22 15:57	11° <b>Υ</b> 12'22	15°33'14
min. Earth dist.	14102 Sep 02 22:29		30.26616 AU	retrograde	14110 Jul 05 20:18	13°Y51'31	10 33 1 .
direct	14102 Nov 18 20:57	21°\(\frac{1}{2}\)25'37	30.20010 AC	opposition	14110 Sep 20 15:47	12° <b>Υ</b> 28'16	16°35'26
			22 10021 ATT	* *	•		
max. Earth dist.	14103 Mar 03 04:24	23° <b>X</b> 54'31	32.10921 AU	min. Earth dist.	14110 Sep 22 01:53		29.15492 AU
				direct	14110 Dec 08 06:41	11° <b>Y</b> 03'08	
conjunction	14103 Mar 05 06:26	23° <b>¥</b> 59′15	15°05'27	max. Earth dist.	14111 Mar 24 00:56	13° <b>Υ</b> '41'09	31.02755 AU
minimum elong	14103 Mar 05 06:22	23° <b>¥</b> 59′15	15°05'40				
retrograde	14103 Jun 18 12:36	26° <b>)</b> 32′16		conjunction	14111 Mar 25 12:04	13° <b>Ƴ</b> 44'37	15°30'46
opposition	14103 Sep 03 16:18	25° <b>)</b> 10′44	16°09'35	minimum elong	14111 Mar 25 12:15	13° <b>Ƴ</b> 44'38	15°30'37
min. Earth dist.	14103 Sep 05 12:39	25° <b>)</b> €07'40	30.10019 AU	retrograde	14111 Jul 08 16:51	16° <b>Y</b> 24'20	
direct	14103 Nov 21 08:52	23° <b>)</b> 47′32		opposition	14111 Sep 23 10:51	15° <b>℃</b> 00'56	16°31'59
max. Earth dist.	14104 Mar 04 23:26		31.94506 AU	min. Earth dist.	14111 Sep 24 17:46		29.05865 AU
max. Latin dist.	11101111111 01 25.20	20 7(17.52	31.9 1300 110	direct	14111 Dec 11 03:29	13° <b>Υ</b> 35'39	27.03003710
conjunction	14104 Mar 06 23:13	26° <b>∺</b> 22'25	15°13'55	max. Earth dist.	14111 Dec 11 03:29		30.93755 AU
•				max. Earth dist.	14112 Mai 23 23.10	10 11427	30.93733 AU
minimum elong	14104 Mar 06 23:10	26° <b>₩</b> 22'24	15°14'06				
retrograde	14104 Jun 20 04:18	28° <b>¥</b> 56'32		conjunction	14112 Mar 27 08:35	16° <b>Y</b> 17'45	15°26'25
opposition	14104 Sep 05 07:37	27° <b>)</b> 34'45		minimum elong	14112 Mar 27 08:47	16° <b>Ƴ</b> 17'46	15°26'14
min. Earth dist.	14104 Sep 07 02:40	27° <b>)</b> 31'45	29.94082 AU	retrograde	14112 Jul 10 13:11	18° <b>Ƴ</b> 57'58	
direct	14104 Nov 22 23:46	26° <b>∺</b> 11'13		opposition	14112 Sep 25 06:24	17° <b>Ƴ</b> 34'29	16°26'35
max. Earth dist.	14105 Mar 07 17:06	28° <b>)</b> 42'44	31.78800 AU	min. Earth dist.	14112 Sep 26 12:01	17° <b>Ƴ</b> 32'23	28.97359 AU
				direct	14112 Dec 12 21:44	16° <b>Ƴ</b> 09'06	
conjunction	14105 Mar 09 16:40	28° <b>)</b> 47'18	15°21'00	max. Earth dist.	14113 Mar 28 23:34	18° <b>Ƴ</b> 48'44	30.85900 AU
minimum elong	14105 Mar 09 16:40	28° <b>)</b> (47'18	15°21'07				
minimum ciong	14105 Apr 11 13:29	0°Υ	13 21 07	conjunction	14113 Mar 30 05:35	18° <b>Ƴ</b> 51'43	15°20'17
	•			·			
retrograde	14105 Jun 22 22:59	1° <b>Y</b> 22′27		minimum elong	14113 Mar 30 05:49	18° <b>Y</b> 51'45	15°20'02
opposition	14105 Sep 07 23:26	0° <b>Υ</b> 00'24	16°25'16	retrograde	14113 Jul 13 10:27	21° <b>Y</b> 32'20	
	14105 Sep 08 05:04	30° <b>₹</b> ₩		opposition	14113 Sep 28 02:08	20° <b>Y</b> 08'48	16°19'16
min. Earth dist.	14105 Sep 09 17:15	29° <b>∺</b> 57′29	29.78861 AU	min. Earth dist.	14113 Sep 29 05:07	20° <b>Y</b> 06′52	28.89938 AU
direct	14105 Nov 25 13:57	28° <b>∺</b> 36'33		direct	14113 Dec 15 18:45	18° <b>Ƴ</b> 43'21	
	14106 Feb 07 05:23	$0$ ° $\mathbf{\Upsilon}$		max. Earth dist.	14114 Mar 31 22:00	21° <b>Y</b> 23'33	30.79141 AU
max. Earth dist.	14106 Mar 10 13:32	1° <b>Ƴ</b> 09′22	31.63842 AU				
				conjunction	14114 Apr 02 02:44	21° <b>Y</b> 26'25	15°12'22
conjunction	14106 Mar 12 10:53	1° <b>Υ</b> 13'44	15°26'37	minimum elong	14114 Apr 02 03:00	21° <b>Y</b> 26'26	15°12'06
		1 <b>γ</b> 13 44 1° <b>γ</b> 13'44			-	$24^{\circ}$ \begin{pmatrix} \ 2020 \\ 24^{\circ}\begin{pmatrix} \ 07'20 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	10 14 00
minimum elong	14106 Mar 12 10:53		15°26'43	retrograde	14114 Jul 16 07:15		1.010101
retrograde	14106 Jun 25 15:28	3° <b>Y</b> 49′52		opposition	14114 Sep 30 22:20	22° <b>Y</b> 43'46	16°10'01
opposition	14106 Sep 10 16:07	2° <b>Y</b> 27'32	16°30'46	min. Earth dist.	14114 Oct 01 23:36		28.83582 AU
min. Earth dist.	14106 Sep 12 09:02		29.64388 AU	direct	14114 Dec 18 13:52	21° <b>Y</b> 18'18	
direct	14106 Nov 28 05:12	1° <b>Y</b> 03'24		max. Earth dist.	14115 Apr 03 22:44	23° <b>Y</b> 59'09	30.73446 AU

14121 Oct 18 21:55

opposition

10°**8**51'47 14°13'53

page 4

					,, FuB:
conjunction	14154 Jul 02 00:40	21°956'14 -3°2	7'41 retrograde	14160 Oct 21 17:29	4° <b>Ω</b> 08'11
minimum elong	14154 Jul 02 00:33	21° <b>5</b> 56'14 3°2	8'43 min. Earth dist.	14161 Jan 08 05:42	2° <b>Ω</b> 59'31 35.47952 AU
max. Earth dist.	14154 Jul 04 02:01	22° <b>©</b> 00'15 35.8	34248 AU opposition	14161 Jan 10 10:21	2° <b>Ω</b> 56'28 -6°42'11
morning rise	14154 Jul 17 00:56	22° <b>©</b> 25'14	direct	14161 Apr 01 23:22	1° <b>Ω</b> 43'59
retrograde	14154 Oct 12 10:18	24° <b>©</b> 02'51	evening set	14161 Jun 29 14:00	3° <b>Ω</b> 18'51
min. Earth dist.	14154 Dec 29 10:29	22° <b>©</b> 52'21 33.9			
opposition	14154 Dec 31 12:38	22° <b>5</b> 49'21 -3°5	J	14161 Jul 13 11:14	3° <b>Ω</b> 44'25 -6°32'58
direct	14155 Mar 22 19:17	21° <b>©</b> 34'53	minimum elong	14161 Jul 13 11:05	3° <b>Ω</b> 44'24 6°33'55
evening set	14155 Jun 19 02:16	23° <b>©</b> 12'46	max. Earth dist.	14161 Jul 15 16:28	3° <b>Ω</b> 48'32 37.59487 AU
		_	morning rise	14161 Jul 27 07:51	4° <b>Ω</b> 09'56
conjunction	14155 Jul 04 00:28	23° <b>©</b> 41'24 -3°5	0	14161 Oct 23 14:22	5° <b>Ω</b> 44'31
minimum elong	14155 Jul 04 00:21	23°5641'23 3°5		14162 Jan 10 01:39	4°Ω36'14 35.73462 AU
max. Earth dist.	14155 Jul 06 03:22	23°545'30 36.0	11	14162 Jan 12 08:06	4° <b>Ω</b> 33'06 -7°07'39
morning rise	14155 Jul 18 21:34	24°509'56	direct	14162 Apr 03 22:41	3° <b>Ω</b> 20'56
retrograde	14155 Oct 14 08:09	25°547'03	evening set	14162 Jul 01 14:58	4° <b>Ω</b> 55′25
min. Earth dist.	14155 Dec 31 12:00	24°\$36'50 34.2		14162 1 1 15 07 16	50 000107 (056155
opposition	14156 Jan 02 13:43	24°533'53 -4°2	,	14162 Jul 15 07:16 14162 Jul 15 07:06	5°Ω20'27 -6°56'55 5°Ω20'26 6°57'51
direct	14156 Mar 23 22:26 14156 Jun 20 05:00	23°519'47	minimum elong max. Earth dist.		
evening set	14156 Jun 20 05:00	24° <b>©</b> 57'05		14162 Jul 17 14:07 14162 Jul 28 22:51	5°Ω24'39 37.84893 AU 5°Ω45'25
conjunction	14156 Jul 04 23:42	25° <b>©</b> 25'14 -4°2	morning rise 3'41 retrograde	14162 Jul 28 22:31 14162 Oct 25 08:22	7°Ω19'42
minimum elong	14156 Jul 04 23:34	25°\$25'14 4°2	0	14162 Oct 23 08:22	6°Ω11'41 35.99108 AU
max. Earth dist.	14156 Jul 07 02:15	25°\$29'17 36.3		14163 Jan 14 05:24	6°Ω08'34 -7°32'26
morning rise	14156 Jul 19 17:26	25° <b>©</b> 53'19	direct	14163 Apr 05 21:27	4°Ω56'45
retrograde	14156 Oct 15 05:11	27° <b>©</b> 29'56	evening set	14163 Jul 03 15:44	6° <b>Ω</b> 30'53
min. Earth dist.	14157 Jan 01 11:01	26°\$20'07 34.4	· ·	11103 341 03 13.11	0 00000
opposition	14157 Jan 03 14:02	26° <b>©</b> 17'06 -4°5		14163 Jul 17 02:47	6° <b>Ω</b> 55'21 -7°20'14
direct	14157 Mar 26 00:48	25° <b>©</b> 03'20	minimum elong	14163 Jul 17 02:37	6°Ω55'21 7°21'09
evening set	14157 Jun 22 07:26	26°\$40'06	max. Earth dist.	14163 Jul 19 09:39	6°Ω59'33 38.10413 AU
S			morning rise	14163 Jul 30 13:11	7° <b>Ω</b> 19'47
conjunction	14157 Jul 06 22:22	27°907'46 -4°5		14163 Oct 27 00:59	8° <b>Ω</b> 53'47
minimum elong	14157 Jul 06 22:14	27° <b>5</b> 07'45 4°5		14164 Jan 13 18:42	7° <b>Ω</b> 46'08 36.24829 AU
max. Earth dist.	14157 Jul 09 01:37	27°5011'50 36.5	59089 AU opposition	14164 Jan 16 02:07	7° <b>Ω</b> 42'58 -7°56'31
morning rise	14157 Jul 21 12:27	27° <b>©</b> 35'21	direct	14164 Apr 06 20:39	6° <b>Ω</b> 31′29
retrograde	14157 Oct 17 02:32	29° <b>©</b> 11'31	evening set	14164 Jul 04 16:17	8° <b>Ω</b> 05'18
min. Earth dist.	14158 Jan 03 10:58	28° <b>5</b> 01'58 34.7	72227 AU		
opposition	14158 Jan 05 14:02	27° <b>©</b> 58'58 -5°2	1'35 conjunction	14164 Jul 17 21:48	8° <b>Ω</b> 29'13 -7°42'54
direct	14158 Mar 28 00:39	26°9545'32	minimum elong	14164 Jul 17 21:38	8° <b>Ω</b> 29'12 7°43'48
evening set	14158 Jun 24 09:22	28° <b>©</b> 21'46	max. Earth dist.	14164 Jul 20 05:14	8° <b>Ω</b> 33'25 38.35967 AU
			morning rise	14164 Jul 31 02:51	8° <b>Ω</b> 53'04
conjunction	14158 Jul 08 20:25	28°5648'56 -5°1	· ·	14164 Oct 27 19:44	10° <b>Ω</b> 26'50
minimum elong	14158 Jul 08 20:16	28°548'55 5°1		14165 Jan 14 14:54	9° <b>£</b> 19′29 36.50581 AU
max. Earth dist.	14158 Jul 11 00:19	28°\$53'02 36.8	**	14165 Jan 16 22:33	9° <b>£</b> 16′20 -8°19′55
morning rise	14158 Jul 23 06:26	29° <b>©</b> 16'01	direct	14165 Apr 08 16:36	8° <b>Ω</b> 05'11
	14158 Aug 17 20:35	0° <b>Ω</b>	evening set	14165 Jul 06 16:34	9° <b>Ω</b> 38′42
retrograde	14158 Oct 18 23:40 14158 Dec 23 17:20	0° <b>£</b> 51′44 30°₨	conjunction	14165 Jul 19 16:33	10° <b>Ω</b> 02'03 -8°04'57
min. Earth dist.	14159 Jan 05 09:49	29°5642'29 34.9	•	14165 Jul 19 16:24	10°Ω02'02 8°05'50
opposition	14159 Jan 07 13:21	29° <b>©</b> 39'28 -5°4	Č	14165 Jul 22 00:42	10°Ω06'16 38.61522 AU
direct	14159 Mar 30 00:27	28° <b>©</b> 26'21	morning rise	14165 Aug 01 15:52	10°Ω25'20
	14159 Jun 25 07:52	0°Ω	retrograde	14165 Oct 29 13:30	11° <b>Ω</b> 58'54
evening set	14159 Jun 26 11:16	0° <b>Ω</b> 02'05	min. Earth dist.	14166 Jan 16 10:58	10° <b>Ω</b> 51'49 36.76285 AU
S			opposition	14166 Jan 18 18:33	10° <b>Ω</b> 48'41 -8°42'38
conjunction	14159 Jul 10 17:52	0° <b>Ω</b> 28'44 -5°4.	**	14166 Apr 10 13:03	9° <b>Ω</b> 37'52
minimum elong	14159 Jul 10 17:43	0° <b>Ω</b> 28'43 5°4	4'06 evening set	14166 Jul 08 16:42	11° <b>Ω</b> 11'07
max. Earth dist.	14159 Jul 12 21:46	0° <b>Ω</b> 32'48 37.0	9094 AU		
morning rise	14159 Jul 24 23:48	0° <b>Ω</b> 55′19	conjunction	14166 Jul 21 10:41	11° <b>Ω</b> 33'52 -8°26'22
retrograde	14159 Oct 20 21:34	2° <b>Ω</b> 30'37	minimum elong	14166 Jul 21 10:31	11° <b>Ω</b> 33'51 8°27'13
min. Earth dist.	14160 Jan 07 07:17	1° <b>Ω</b> 21'41 35.2	22597 AU max. Earth dist.	14166 Jul 23 18:13	11° <b>Ω</b> 38′01 38.86991 AU
opposition	14160 Jan 09 11:59	1° <b>Ω</b> 18'37 -6°1	6'00 morning rise	14166 Aug 03 04:22	11° <b>Q</b> 56'36
direct	14160 Mar 30 22:29	0° <b>Ω</b> 05'49	retrograde	14166 Oct 31 09:31	13° <b>Ω</b> 29'57
evening set	14160 Jun 27 12:45	1° <b>Ω</b> 41'06	min. Earth dist.	14167 Jan 18 05:39	12° <b>Ω</b> 23'12 37.01893 AU
			opposition	14167 Jan 20 14:06	12° <b>Ω</b> 20'02 -9°04'41
	14160 1 1 11 14 56	2° <b>Ω</b> 07'12 -6°0	8'22 direct	14167 Apr 12 07:37	11° <b>Ω</b> 09'32
conjunction	14160 Jul 11 14:56			•	
minimum elong	14160 Jul 11 14:47	2° <b>Ω</b> 07'12 6°0	9'19 evening set	14167 Jul 10 16:37	12° <b>Ω</b> 42'31
·			9'19 evening set	•	

	14167 1 1 22 04 24	120 00 4141 00	4010.1		14172 4 11 04 06	220 00002	
minimum elong	14167 Jul 23 04:34	13° <b>Ω</b> 04'41 8°4		morning rise	14173 Aug 11 04:06	22° <b>Ω</b> 06'22	
max. Earth dist.	14167 Jul 25 13:20	13° <b>Ω</b> 08'54 39.	.12321 AU	retrograde	14173 Nov 10 01:49	23° <b>Ω</b> 38'42	
morning rise	14167 Aug 04 16:18	13° <b>Ω</b> 26'51		min. Earth dist.	14174 Jan 28 10:27	• •	38.75982 AU
	14167 Nov 01 07:45	15° <b>Ω</b>		opposition	14174 Jan 30 19:26	22° <b>Ω</b> 30′28	-11°21'09
retrograde	14167 Nov 02 03:02	15° <b>Ω</b> 00'01		direct	14174 Apr 22 19:03	21° <b>Ω</b> 21′50	
	14167 Nov 02 22:12	15°R <b>Ω</b>		evening set	14174 Jul 22 09:26	22° <b>Ω</b> 53'31	
min. Earth dist.	14168 Jan 20 01:46	13° <b>Ω</b> 53′28 37.	.27324 AU				
opposition	14168 Jan 22 09:12	13° <b>Ω</b> 50′22 -9°2	26'05	conjunction	14174 Aug 01 22:54	23° <b>Ω</b> 11'30	-10°56'07
direct	14168 Apr 13 04:02	12° <b>Ω</b> 40′10		minimum elong	14174 Aug 01 22:46	23° <b>Ω</b> 11'30	10°56'50
evening set	14168 Jul 11 16:31	14° <b>Ω</b> 12'56		max. Earth dist.	14174 Aug 04 07:55	23° <b>Ω</b> 15'34	40.84524 AU
				morning rise	14174 Aug 12 12:08	23° <b>Ω</b> 29'29	
conjunction	14168 Jul 23 22:18	14° <b>Ω</b> 34'31 -9°0	07'21	retrograde	14174 Nov 11 16:14	25° <b>Ω</b> 01'46	
minimum elong	14168 Jul 23 22:08		08'10	min. Earth dist.	14175 Jan 30 03:34	23° <b>Ω</b> 56'50	39.00417 AU
max. Earth dist.	14168 Jul 26 05:45	14° <b>Ω</b> 38'37 39.	37459 AU	opposition	14175 Feb 01 11:49	23° <b>Ω</b> 53'47	-11°38'07
morning rise	14168 Aug 05 03:45	14° <b>Ω</b> 56'05	.57.159.110	direct	14175 Apr 24 12:25	22°Ω45'26	11 20 07
morning rise	14168 Aug 07 10:01	15° <b>Ω</b>		evening set	14175 Jul 24 07:31	24°Ω17'02	
retrograde	14168 Nov 02 20:52	16° <b>Ω</b> 29'03		evening set	141/3 Jul 24 07.51	24 0017 02	
min. Earth dist.	14169 Jan 20 19:34	15° <b>Ω</b> 22'49 37.	52546 ATT	conjunction	14175 Aug 03 13:41	24° <b>Ω</b> 34'25	11012111
	14169 Jan 23 03:56	15° <b>Ω</b> 19'41 -9°4		minimum elong	14175 Aug 03 13:41 14175 Aug 03 13:33	$24^{\circ} \Omega 34'24$	
opposition			40 30	U	Č		
1"	14169 Feb 07 02:38	15°R€		max. Earth dist.	14175 Aug 05 22:09		41.08737 AU
direct	14169 Apr 14 23:31	14° <b>Ω</b> 09'45		morning rise	14175 Aug 13 19:41	24° <b>Ω</b> 51'47	
	14169 Jun 17 13:01	15° <b>Ω</b>		retrograde	14175 Nov 13 05:14	26° <b>Ω</b> 24'03	
evening set	14169 Jul 13 15:55	15° <b>Ω</b> 42'18		min. Earth dist.	14176 Jan 31 18:23		39.24765 AU
				opposition	14176 Feb 03 03:36	25° <b>Ω</b> 16′20	-11°54'28
conjunction	14169 Jul 25 15:25	16° <b>Ω</b> 03'17 -9°2	26'58	direct	14176 Apr 25 05:44	24° <b>Ω</b> 08'16	
minimum elong	14169 Jul 25 15:15	16° <b>Ω</b> 03'17 9°2	27'47	evening set	14176 Jul 25 05:18	25° <b>Ω</b> 39'49	
max. Earth dist.	14169 Jul 27 23:26	16° <b>Ω</b> 07'24 39.	.62365 AU				
morning rise	14169 Aug 06 14:34	16° <b>Ω</b> 24'16		conjunction	14176 Aug 04 04:09	25° <b>Ω</b> 56'35	-11°27'40
retrograde	14169 Nov 04 11:19	17° <b>Ω</b> 57'05		minimum elong	14176 Aug 04 04:02	25° <b>Ω</b> 56'35	11°28'20
min. Earth dist.	14170 Jan 22 14:58	16° <b>Ω</b> 51'01 37.	.77542 AU	max. Earth dist.	14176 Aug 06 12:53	26° <b>Ω</b> 00'35	41.32841 AU
opposition	14170 Jan 24 22:26	16° <b>Ω</b> 47'56 -10	)°06'58	morning rise	14176 Aug 14 02:57	26° <b>Ω</b> 13'21	
direct	14170 Apr 16 20:06	15° <b>Ω</b> 38'17		retrograde	14176 Nov 13 18:53	27° <b>Ω</b> 45'38	
evening set	14170 Jul 15 15:14	17° <b>Ω</b> 10'36		min. Earth dist.	14177 Feb 01 10:34		39.48997 AU
evening sec	11170 341 13 13.11	17 001030		opposition	14177 Feb 03 19:24	26°Ω38'10	
conjunction	14170 Jul 27 08:13	17° <b>Ω</b> 31'00 -9°4	15150	direct	14177 Apr 26 22:32	25° <b>Ω</b> 30'25	-12 10 13
minimum elong	14170 Jul 27 08:04	. • • • • • • • • • • • • • • • • • • •	46'46	evening set	14177 Apr 20 22:32 14177 Jul 27 02:50	23° <b>Ω</b> 01'55	
max. Earth dist.	14170 Jul 29 15:57	$17^{\circ}\Omega_{35'04}$ 39.		evening set	141// Jul 2/ 02.30	2/ 8(0133	
		$17 \circ 03304 39.$ $17^{\circ} \Omega 51'22$	.87039 AU		14177 4 05 10 17	270 0 1 010 5	11040125
morning rise	14170 Aug 08 00:47			conjunction	14177 Aug 05 18:17	27° <b>Ω</b> 18'05	
retrograde	14170 Nov 06 01:18	19° <b>Ω</b> 24'02		minimum elong	14177 Aug 05 18:10	27°Ω18'04	
min. Earth dist.	14171 Jan 24 08:21	18°Ω18'12 38.		max. Earth dist.	14177 Aug 08 03:26		41.56806 AU
opposition	14171 Jan 26 16:10	18° <b>Ω</b> 15'07 -10	0°26'27	morning rise	14177 Aug 15 09:32	27° <b>Ω</b> 34'14	
direct	14171 Apr 18 16:36	17° <b>Ω</b> 05'42		retrograde	14177 Nov 15 08:48	29° <b>Ω</b> 06′32	
evening set	14171 Jul 17 14:14	18° <b>Ω</b> 37'50		min. Earth dist.	14178 Feb 03 02:09		39.73039 AU
				opposition	14178 Feb 05 10:47	27° <b>Ω</b> 59'21	-12°25'23
conjunction	14171 Jul 29 00:29	18° <b>Ω</b> 57'37 -10	)°04'24	direct	14178 Apr 28 14:40	26° <b>Ω</b> 51'54	
minimum elong	14171 Jul 29 00:19	18° <b>Ω</b> 57'37 10	0°05'11	evening set	14178 Jul 29 00:24	28° <b>Ω</b> 23'22	
max. Earth dist.	14171 Jul 31 07:57	19° <b>Ω</b> 01'39 40.	.11557 AU				
morning rise	14171 Aug 09 10:35	19° <b>Ω</b> 17'24		conjunction	14178 Aug 07 08:10	28° <b>Ω</b> 38'55	-11°56'58
retrograde	14171 Nov 07 18:19	20° <b>Ω</b> 49'56		minimum elong	14178 Aug 07 08:03	28° <b>Ω</b> 38'55	11°57'37
min. Earth dist.	14172 Jan 26 01:35	19° <b>Ω</b> 44'18 38.	.26959 AU	max. Earth dist.	14178 Aug 09 16:23	28° <b>Ω</b> 42'51	41.80552 AU
opposition	14172 Jan 28 09:40	19° <b>Ω</b> 41'14 -10	°45'19	morning rise	14178 Aug 16 15:59	28° <b>Ω</b> 54'29	
direct	14172 Apr 19 09:09	18° <b>£</b> 32'04		Ü	14178 Oct 01 04:17	0° <b>m</b> )	
evening set	14172 Jul 18 12:51	20° <b>₽</b> 04'00		retrograde	14178 Nov 17 01:05	0° m) 26'49	
evening sec	11172001 10 12.01	20 000.00		Tellograde	14179 Jan 04 09:04	30°R <b>Ω</b>	
conjunction	14172 Jul 29 16:22	20° <b>Ω</b> 23'12 -10	1022114	min. Earth dist.	14179 Feb 04 16:44		39.96849 AU
minimum elong	14172 Jul 29 16:13	20° <b>Ω</b> 23'11 10		opposition	14179 Feb 07 01:43	29° <b>Ω</b> 19'53	
		$20^{\circ}\Omega 27'16 40.$		direct		29 <b>δ</b> (19 33 28° <b>Ω</b> 12'43	14 37 30
max. Earth dist.	14172 Aug 01 00:48		.53737 AU		14179 Apr 30 03:12		
morning rise	14172 Aug 09 19:30	20° <b>Ω</b> 42′22		evening set	14179 Jul 30 21:45	29° <b>Ω</b> 44'10	
retrograde	14172 Nov 08 09:01	22° <b>Ω</b> 14'48	51401 17		14170 / 00 51 55	200 0 5000	10010110
min. Earth dist.	14173 Jan 26 19:04	21° <b>Ω</b> 09'22 38.		conjunction	14179 Aug 08 21:57	29° <b>Ω</b> 59'07	
opposition	14173 Jan 29 02:45	21° <b>Ω</b> 06'19 -11	~03'33	minimum elong	14179 Aug 08 21:50	29° <b>Ω</b> 59'06	12°11'27
direct	14173 Apr 21 03:33	19° <b>Ω</b> 57'25			14179 Aug 09 10:44	0° <b>m</b> )	
evening set	14173 Jul 20 11:23	21° <b>Ω</b> 29'12		max. Earth dist.	14179 Aug 11 06:46	0°m/03'03	42.04031 AU
				morning rise	14179 Aug 17 22:00	0° <b>m</b> 14′04	
conjunction	14173 Jul 31 07:48	21° <b>Ω</b> 47'47 -10	)°39'28	retrograde	14179 Nov 18 14:51	1° Mp 46′26	
minimum elong		_	0.4014.2				
	14173 Jul 31 07:39	21° <b>Ω</b> 47'47 10	0°40'13	min. Earth dist.	14180 Feb 06 08:59	0°m)42'42	40.20345 AU
max. Earth dist.	14173 Jul 31 07:39 14173 Aug 02 15:29	$21^{\circ}$ <b>\( \)</b> $147'47 = 10$ $21^{\circ}$ <b>\( \)</b> $147'47 = 40$ .		min. Earth dist.	14180 Feb 06 08:59 14180 Feb 08 16:34	0° m/42'42 0° m/39'46	

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	14180 Mar 13 02:30	30°R <b>Ω</b>		max. Earth dist.	14186 Aug 19 19:56	9°m03'26	43.59142 AU
direct	14180 Apr 30 18:16	29° <b>Ω</b> 32'52		morning rise	14186 Aug 24 03:41	9° m <sub>0</sub> 10'22	43.37142710
unect	-			Č	•		
_	14180 Jun 16 22:14	0° <b>m</b> )		retrograde	14186 Nov 27 03:08	10° <b>m</b> 43'12	
evening set	14180 Jul 31 19:05	1° <b>m</b> )04'18		min. Earth dist.	14187 Feb 15 09:59		41.75602 AU
				opposition	14187 Feb 17 15:27	9° <b>™</b> 37'52	-14°17'55
conjunction	14180 Aug 09 11:17	1° <b>m</b> )18'39	-12°24'10	direct	14187 May 10 21:04	8° Mp 32'28	
minimum elong	14180 Aug 09 11:12	1° <b>™</b> 18'38	12°24'47	evening set	14187 Aug 12 19:56	10° m/04'08	
max. Earth dist.	14180 Aug 11 18:41		42.27179 AU	Ç	Ç	•	
morning rise	14180 Aug 18 03:30	1° m/32'59	12.27177110	conjunction	14187 Aug 19 00:59	10° <b>m</b> 14'04	-13°/3'55
•	Č				Č	•	
retrograde	14180 Nov 19 04:08	3° My 05'23		minimum elong	14187 Aug 19 00:57	10° <b>m</b> 14'04	
min. Earth dist.	14181 Feb 06 22:55		40.43486 AU	max. Earth dist.	14187 Aug 21 06:46	10° Mp 17'39	43.80346 AU
opposition	14181 Feb 09 07:02	1° <b>m</b> 58'57	-13°07'32	morning rise	14187 Aug 25 06:03	10° Mp 23'59	
direct	14181 May 02 08:54	0° <b>m</b> ,52'17		retrograde	14187 Nov 28 12:08	11° <b>m</b> 56'58	
evening set	14181 Aug 02 16:10	2° m 23'45		min. Earth dist.	14188 Feb 16 21:48	10° m 54'37	41.96837 AU
•		-		opposition	14188 Feb 19 03:47	10° m 51'50	-14°27'51
conjunction	14181 Aug 11 00:30	2° m 37'28	-12°37'01	direct	14188 May 11 10:57	9° m/ 46'39	
	•						
minimum elong	14181 Aug 11 00:24	2° m/37'28		evening set	14188 Aug 13 16:10	11° Mp 18'27	
max. Earth dist.	14181 Aug 13 07:58		42.49953 AU				
morning rise	14181 Aug 19 08:49	2° <b>m</b> 51'11		conjunction	14188 Aug 19 12:01	11° Mp 27'44	
retrograde	14181 Nov 20 15:59	4° <b>™</b> 23'39		minimum elong	14188 Aug 19 11:59	11° <b>m</b> 27'43	13°53'49
min. Earth dist.	14182 Feb 08 14:28	3° <b>m</b> 20'17	40.66252 AU	max. Earth dist.	14188 Aug 21 17:28	11°Mp31'16	44.01329 AU
opposition	14182 Feb 10 21:20	3° <b>₪</b> 17'24	-13°20'33	morning rise	14188 Aug 25 07:59	11° m 36'59	
direct	14182 May 04 00:09	2° m, 10'59		retrograde	14188 Nov 28 23:25	13° m 10'09	
evening set	14182 Aug 04 13:11	3° M) 42'26		min. Earth dist.	14189 Feb 17 10:28	•	42.17850 AU
evening set	14162 Aug 04 15.11	3 HJ42 20					
				opposition	14189 Feb 19 16:02	12° Mp 05'13	-14°3/19
conjunction	14182 Aug 12 13:21	3° <b>m</b> ,55'32	-12°49'23	direct	14189 May 12 23:41	11°Mp00'16	
minimum elong	14182 Aug 12 13:17	3° M 55′32	12°49'57	evening set	14189 Aug 15 12:38	12°My32'14	
max. Earth dist.	14182 Aug 14 20:18	3° <b>m</b> 59'17	42.72364 AU				
morning rise	14182 Aug 20 13:29	4° <b>™</b> 08'37		conjunction	14189 Aug 20 23:02	12° m 40'50	-14°02'22
retrograde	14182 Nov 22 01:55	5° mp 41'08		minimum elong	14189 Aug 20 23:01	12° m 40'50	14°02'47
min. Earth dist.	14183 Feb 10 04:24		40.88637 AU	max. Earth dist.	14189 Aug 23 04:55	•	44.22077 AU
opposition	14183 Feb 12 11:07	4° <b>m</b> <sub>2</sub> 35'05		morning rise	14189 Aug 26 09:29	12° m/49'27	44.22077710
• •			-13 33 02	•	•	-	
direct	14183 May 05 17:06	3° m/28'52		retrograde	14189 Nov 30 09:34	14° <b>m</b> 22'49	
evening set	14183 Aug 06 09:57	5° <b>m</b> 00'19		min. Earth dist.	14190 Feb 18 23:05	13° <b>m</b> )20'47	42.38579 AU
				opposition	14190 Feb 21 03:55	13° <b>m</b> ) 18'05	-14°46'18
conjunction	14183 Aug 14 01:49	5° <b>M</b> ,12'47	-13°01'16	direct	14190 May 14 13:05	12° Mp 13'22	
minimum elong	14183 Aug 14 01:44	5° <b>m</b> ) 12'47	13°01'48	evening set	14190 Aug 17 09:07	13° Mp 45'31	
max. Earth dist.	14183 Aug 16 07:46	5° m 16'27	42.94417 AU	•	•		
morning rise	14183 Aug 21 17:47	5° m/25'15		conjunction	14190 Aug 22 09:40	13°m 53'26	-14°10'56
retrograde	14183 Nov 23 14:48	6° <b>M</b> 57'49		minimum elong	14190 Aug 22 09:39	13° m 53'26	
•		-	41 10714 411	•	· ·		
min. Earth dist.	14184 Feb 11 18:04	-	41.10714 AU	max. Earth dist.	14190 Aug 24 14:03	-	44.42522 AU
opposition	14184 Feb 14 00:36	5° <b>m</b> 51'56	-13°45'02	morning rise	14190 Aug 27 10:20	14° Mp 01'22	
direct	14184 May 06 07:05	4° <b>™</b> 45'55		retrograde	14190 Dec 01 23:03	15° <b>m</b> 34'58	
evening set	14184 Aug 07 06:36	6°M) 17′24		min. Earth dist.	14191 Feb 20 10:34	14° Mp 33'10	42.58984 AU
				opposition	14191 Feb 22 15:35	14° Mp 30'28	-14°54'50
conjunction	14184 Aug 14 14:06	6° <b>m</b> 29′13	-13°12'40	direct	14191 May 15 22:19	13° m/25'58	
minimum elong	14184 Aug 14 14:02	6° m 29'13		evening set	14191 Aug 19 05:55	14° m 58'22	
max. Earth dist.	14184 Aug 16 20:51	•	43.16199 AU	croning set	1117111ug 17 03.33	1. my 20 22	
	-		73.10177 AU	agniumation	14101 412 22 20:10	150 m 0512 4	1.401.010.4
morning rise	14184 Aug 21 21:33	6° m/41'04		conjunction	14191 Aug 23 20:19	15° <b>m</b> 05'34	
retrograde	14184 Nov 24 03:25	8° Mp 13'42		minimum elong	14191 Aug 23 20:19	15° <b>m</b> 05'34	
min. Earth dist.	14185 Feb 12 08:15	7° <b>™)</b> 10'47	41.32534 AU	max. Earth dist.	14191 Aug 26 01:05	15° <b>m</b> 09'01	44.62605 AU
opposition	14185 Feb 14 13:55	7° <b>m</b> 07'59	-13°56'30	morning rise	14191 Aug 28 10:48	15° <b>m</b> 12'48	
direct	14185 May 07 20:25	6° Mp 02'10		retrograde	14191 Dec 03 10:47	16° Mp 46'40	
evening set	14185 Aug 09 03:03	7° <b>m</b> 33'41		min. Earth dist.	14192 Feb 21 23:48	15° m 44'58	42.78990 AU
8				opposition	14192 Feb 24 03:05	15° m) 42'22	
conjunction	14185 Aug 16 01:50	7° <b>m</b> 44'52	13023'34	direct	14192 May 16 08:46	14° m) 38'06	15 02 50
	•				•	-	
minimum elong	14185 Aug 16 01:46	7° <b>m</b> ) 44'52		evening set	14192 Aug 20 03:13	16° <b>m</b> 10'45	
max. Earth dist.	14185 Aug 18 07:31		43.37764 AU				
morning rise	14185 Aug 23 00:41	7° <b>m</b> 56'05		conjunction	14192 Aug 24 06:45	16°M)17'14	-14°26'48
retrograde	14185 Nov 25 16:50	9° <b>m</b> ,28'48		minimum elong	14192 Aug 24 06:44	16°Mp17'14	14°27'09
min. Earth dist.	14186 Feb 13 20:12	8° Mp 26'07	41.54161 AU	max. Earth dist.	14192 Aug 26 10:10	16° Mp 20'35	44.82282 AU
opposition	14186 Feb 16 02:51	8° m) 23'17		morning rise	14192 Aug 28 10:21	16° m) 23'43	
direct	14186 May 09 07:45	7° <b>m</b> ) 17'40		retrograde	14192 Dec 03 19:29	17° m) 57'54	
	•	-		min. Earth dist.		-	12 00556 ATT
evening set	14186 Aug 10 23:27	8° <b>m</b> )49'14			14193 Feb 22 10:52	-	42.98556 AU
				opposition	14193 Feb 24 14:23	16° <b>m</b> 53'47	-15~10'3/
conjunction	14186 Aug 17 13:33	8° <b>m</b> 59'48		direct	14193 May 17 20:40	15° <b>m</b> 49'43	
minimum elong	14186 Aug 17 13:30	8° <b>m</b> 59'48	13°34'28	evening set	14193 Aug 22 00:54	17° <b>m</b> 22'41	

conjunction	14193 Aug 25 16:53	17° Mp 28'24 -14°34'08	min. Earth dist.	14201 Mar 05 01:01	26° m 08'08 44.41326 AU
minimum elong	•	•	opposition		26° Mp 05'47 -15° 57'41
· ·	14193 Aug 25 16:54	17° m 28'24 14°34'28	11	14201 Mar 07 00:22	
max. Earth dist.	14193 Aug 27 19:32	17° mp 31'41 45.01494 A	U direct	14201 May 28 11:36	25° Mp 03'06
morning rise	14193 Aug 29 08:59	17° <b>m</b> 34'07		14001 0 04 10 07	260 2010 15010156
retrograde	14193 Dec 05 04:13	19° Mp 08'39	conjunction	14201 Sep 04 18:27	26° m/38'19 -15°18'56
min. Earth dist.	14194 Feb 23 23:27	18° m 07'14 43.17655 A		14201 Sep 04 18:31	26° m/38'19 15°19'07
opposition	14194 Feb 26 01:36	18° m 04'42 -15°17'55	max. Earth dist.	14201 Sep 06 18:06	26° m/41'19 46.42258 AU
direct	14194 May 19 09:44	17° <b>m</b> 00'50	retrograde	14201 Dec 15 05:54	28° <b>m</b> 15'25
evening set	14194 Aug 23 23:46	18° <b>™</b> 34'10	min. Earth dist.	14202 Mar 06 11:46	27° m 14'57 44.57877 AU
			opposition	14202 Mar 08 09:45	27° Mp 12'41 -16°01'46
conjunction	14194 Aug 27 03:02	18° Mp 39′02 -14°41′05	direct	14202 May 29 20:57	26° <b>m</b> 10'11
minimum elong	14194 Aug 27 03:02	18° Tp 39'02 14°41'24			
max. Earth dist.	14194 Aug 29 05:21	18° m 42'17 45.20248 A	•	14202 Sep 06 02:50	27° Mp 45'01 -15° 22'49
morning rise	14194 Aug 30 06:19	18° <b>m</b> 43'54	minimum elong	14202 Sep 06 02:55	27° Mp 45'01 15°22'58
retrograde	14194 Dec 06 12:42	20° m/18'51	max. Earth dist.	14202 Sep 08 01:03	27° Mp 47'55 46.58584 AU
min. Earth dist.	14195 Feb 25 10:59	19° Mp 17'32 43.36279 A	· ·	14202 Dec 16 15:44	29° <b>m</b> 21'46
opposition	14195 Feb 27 12:15	19° Mp 15'03 -15°24'48	min. Earth dist.	14203 Mar 07 20:22	28° Mp 21'29 44.74084 AU
direct	14195 May 20 23:09	18° <b>m</b> 11'21	opposition	14203 Mar 09 18:42	28° Mp 19'12 -16°05'29
evening set	14195 Aug 26 00:07	19° <b>m</b> 45'12	direct	14203 May 31 03:39	27° Mp 16'53
conjunction	14195 Aug 28 12:44	19° <b>m</b> 49'06 -14°47'40	conjunction	14203 Sep 07 11:10	28° Mp 51'22 -15°26'21
minimum elong	14195 Aug 28 12:46	19° Mp 49'06 14°47'58	minimum elong	14203 Sep 07 11:14	28° Mp 51'22 15°26'30
morning rise	14195 Aug 31 01:28	19° <b>m</b> 53'00	max. Earth dist.	14203 Sep 09 09:02	28° Mp 54'13 46.74530 AU
max. Earth dist.	14195 Aug 30 13:31	19° m 52'14 45.38559 A	U	14203 Oct 28 10:56	0∘ <b>⊽</b>
retrograde	14195 Dec 08 00:11	21° <b>m</b> 28'29	retrograde	14203 Dec 17 23:23	0° <b>£</b> 27'47
min. Earth dist.	14196 Feb 26 21:37	20° m 27'18 43.54503 A	U	14204 Feb 07 22:31	30°R <b>™</b> )
opposition	14196 Feb 28 22:51	20° mg 24'50 -15°31'18	min. Earth dist.	14204 Mar 08 07:13	29° m/27'33 44.89889 AU
direct	14196 May 21 08:47	19° <b>m</b> 21'18	opposition	14204 Mar 10 03:49	29° m 25'22 -16°08'51
evening set	14196 Aug 27 03:44	20° m 55'51	direct	14204 May 31 12:07	28° m 23'13
	_				
conjunction	14196 Aug 28 22:11	20° m 58'34 -14°53'52	conjunction	14204 Sep 07 19:17	29° m 57'20 -15°29'34
minimum elong	14196 Aug 28 22:12	20° m 58'34 14°54'08	minimum elong	14204 Sep 07 19:23	29° m 57'21 15°29'40
morning rise	14196 Aug 30 16:41	21° <b>m</b> 01'17		14204 Sep 09 14:04	0∘ <b>⊽</b>
max. Earth dist.	14196 Aug 30 23:30	21° m 01'44 45.56500 A	U max. Earth dist.	14204 Sep 09 16:31	0° <b>ჲ</b> 00'09 46.90059 AU
retrograde	14196 Dec 08 10:17	22° m 37'33	retrograde	14204 Dec 18 04:29	1° <b>-</b> 33′25
min. Earth dist.	14197 Feb 27 09:22	21° m/36'26 43.72384 A	Č	14205 Mar 09 16:27	0° <b>2</b> 33'19 45.05227 AU
opposition	14197 Mar 01 09:17	21° m/34'02 -15°37'24	opposition	14205 Mar 11 12:40	0° <b>2</b> 31'09 -16°11'53
direct	14197 May 22 18:35	20° m/30'39	11	14205 Apr 08 06:43	30° <b>₹™</b>
			direct	14205 Jun 01 22:32	29° m 29'09
conjunction	14197 Aug 30 07:25	22° m 07'29 -14°59'39		14205 Jul 24 19:00	0∘ <b>⊽</b>
minimum elong	14197 Aug 30 07:28	22° m 07'29 14°59'55			
max. Earth dist.	14197 Sep 01 07:37	22° m 10'33 45.74151 A	U conjunction	14205 Sep 09 03:20	1° <b>≙</b> 02'55 -15°32'27
retrograde	14197 Dec 09 19:52	23° m/ 46'02	minimum elong	14205 Sep 09 03:25	1° <b>2</b> 02'55 15°32'33
min. Earth dist.	14198 Feb 28 18:46	22° m/45'05 43.89994 A	_	14205 Sep	1° <b>2</b> 05'37 47.05104 AU
opposition	14198 Mar 02 19:17	22° m/42'40 -15°43'05	retrograde	14205 Dec 19 12:59	2° <b>£</b> 38'40
direct	14198 May 24 02:38	21° mp 39'27	min. Earth dist.	14206 Mar 11 02:03	1° <b>£</b> 38'38 45.20083 AU
direct	11170 May 21 02.50	21 10(3) 27	opposition	14206 Mar 12 21:22	1° <b>2</b> 36'31 -16°14'37
conjunction	14198 Aug 31 16:26	23° m 15'52 -15°05'04	direct	14206 Jun 03 07:55	0° <b>£</b> 34'39
minimum elong	14198 Aug 31 16:28	23° m 15'52 15°05'17	direct	11200 3411 03 07.33	0 = 3137
max. Earth dist.	14198 Sep 02 16:36	23° m 18'56 45.91543 A	U conjunction	14206 Sep 10 11:20	2° <b>£</b> 08'03 -15°35'02
retrograde	14198 Dec 11 03:53	24° m 54'02	minimum elong	14206 Sep 10 11:27	2° <b>2</b> 08'04 15°35'07
min. Earth dist.	14199 Mar 02 05:47	23° m 53'10 44.07359 A	_	14206 Sep 10 11:27	2° <b>2</b> 10'45 47.19660 AU
opposition	14199 Mar 04 05:14	23° Mp 50'49 -15°48'21	retrograde	14206 Dec 20 20:30	3° <b>£</b> 43′29
direct		22° Mp 47'46	min. Earth dist.	14200 Dec 20 20:30 14207 Mar 12 12:05	2° <b>2</b> 43′28 45.34431 AU
direct	14199 May 25 12:25	22 11/4/40	opposition	14207 Mar 12 12.03	2° <b>2</b> 41'26 -16°17'01
conjunction	14199 Sep 02 01:20	24° mg 23'46 -15°10'04	direct	14207 Mai 14 03.34 14207 Jun 04 18:40	1° <b>2</b> 39'41
minimum elong	14199 Sep 02 01:20	24° Mp 23'46 15°10'17	direct	1420/ Juli 04 16.40	1 = 3941
_	•	•	II comiumation	14207 Cap. 11 19:57	20 0 12/42 15027/10
max. Earth dist. retrograde	14199 Sep 04 01:32 14199 Dec 12 09:31	24° To 26'49 46.08705 A' 26° To 01'34	U conjunction minimum elong	14207 Sep 11 18:57 14207 Sep 11 19:03	3° <b>£</b> 12'43 -15°37'19 3° <b>£</b> 12'43 15°37'22
0		•	_	_	
min. Earth dist.	14200 Mar 03 15:23	25° Mp 00'51 44.24467 A		14207 Sep 13 12:42	3° <b>2</b> 15'17 47.33745 AU
opposition	14200 Mar 05 14:48	24° Mp 58'30 -15°53'13	retrograde	14207 Dec 22 06:11	4° <b>£</b> 47'48
direct	14200 May 27 01:36	23° <b>m</b> 55'38	min. Earth dist.	14208 Mar 12 20:12	3° <b>2</b> 47'53 45.48337 AU
	14200 9 02 00 57	250m,21114 15014141	opposition	14208 Mar 14 14:09	3° <b>2</b> 45'51 -16°19'07
conjunction	14200 Sep 03 09:57	25° m 31'14 -15°14'41	direct	14208 Jun 05 00:58	2° <b>£</b> 44'13
minimum elong	14200 Sep 03 10:00	25° m/31'15 15°14'52	II	14200 0 12 02 22	49 0 1 (154 - 15920119
max. Earth dist.	14200 Sep 05 08:54	25° m 34'12 46.25616 A	•	14208 Sep 12 02:28	4° <b>2</b> 16'54 -15°39'18
retrograde	14200 Dec 13 19:39	27° <b>m</b> 08'41	minimum elong	14208 Sep 12 02:36	4° <b>£</b> 16'54 15°39'20

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max. Earth dist.	14208 Sep 13 20:13	4° <b>Ω</b> 19'27	47.47418 AU	opposition	14217 Mar 24 10:31	13° <b>£</b> 10′26	-16°23'15
retrograde	14208 Dec 22 14:22	5° <b>Ω</b> 51'39		direct	14217 Jun 14 23:10	12° <b>♀</b> 10'04	
min. Earth dist.	14209 Mar 14 06:06		45.61874 AU		1.21, 0011 1. 25.10	12 —100.	
opposition	14209 Mar 15 22:26		-16°20'52	conjunction	14217 Sep 21 16:09	13° <b>≏</b> 40'16	-15°42'52
direct	14209 Jun 06 07:44	3° <b>Ω</b> 48'17	10 20 32	minimum elong	14217 Sep 21 16:09	13° <b>⊆</b> 40'17	
direct	14209 Juli 00 07.44	3 ==4817		max. Earth dist.	14217 Sep 23 03:21		48.56389 AU
agniumation	14200 Cap 12 00:45	59 0 20127	-15°40'57		14217 Sep 23 03:21 14218 Jan 01 04:00	15° <b>£</b> 42 25	46.30369 AU
conjunction	14209 Sep 13 09:45			retrograde			46 (0252 AII
minimum elong	14209 Sep 13 09:52		15°40'57	min. Earth dist.	14218 Mar 24 06:34		46.69253 AU
max. Earth dist.	14209 Sep 15 03:04		47.60768 AU	opposition	14218 Mar 25 17:33	14° <b>£</b> 12'05	-10-22-14
retrograde	14209 Dec 23 18:37	6° <b>Ω</b> 55'04	45 75000 444	direct	14218 Jun 16 05:06	13° <b>£</b> 11'49	
min. Earth dist.	14210 Mar 15 13:45		45.75092 AU		1.4010.0	1.40.0.41145	15041151
opposition	14210 Mar 17 06:22	5° <b>Ω</b> 53'19	-16°22'18	conjunction	14218 Sep 22 22:43	14° <b>£</b> 41'47	
direct	14210 Jun 07 17:26	4° <b>£</b> 51'55		minimum elong	14218 Sep 22 22:53	14° <b>£</b> 41'48	
				max. Earth dist.	14218 Sep 24 09:26		48.66404 AU
conjunction	14210 Sep 14 16:54		-15°42'16	retrograde	14219 Jan 02 13:18	16° <b>≙</b> 14'04	
minimum elong	14210 Sep 14 17:03		15°42'16	min. Earth dist.	14219 Mar 25 15:35		46.78987 AU
max. Earth dist.	14210 Sep 16 09:04		47.73819 AU	opposition	14219 Mar 27 00:24	15° <b>≏</b> 13'27	-16°20'58
retrograde	14210 Dec 25 01:10	7° <b>≏</b> 58'05		direct	14219 Jun 17 10:06	14° <b>≏</b> 13'16	
min. Earth dist.	14211 Mar 16 22:11	6° <b>≏</b> 58'23	45.88039 AU				
opposition	14211 Mar 18 14:06	6° <b>£</b> 56′27	-16°23'23	conjunction	14219 Sep 24 05:05	15° <b>≏</b> 42'59	-15°40'36
direct	14211 Jun 09 02:27	5° <b>≏</b> 55'12		minimum elong	14219 Sep 24 05:17	15° <b>≏</b> 42'59	15°40'25
				max. Earth dist.	14219 Sep 25 14:42	15° <b>≏</b> 44'59	48.75912 AU
conjunction	14211 Sep 16 00:03	7° <b>≏</b> 26'55	-15°43'16	retrograde	14220 Jan 03 17:27	17° <b>≏</b> 15′01	
minimum elong	14211 Sep 16 00:11	7° <b>≏</b> 26'56	15°43'14	min. Earth dist.	14220 Mar 25 22:17	16° <b>≙</b> 16′01	46.88227 AU
max. Earth dist.	14211 Sep 17 16:45	7° <b>≏</b> 29'24	47.86611 AU	opposition	14220 Mar 27 07:07	16° <b>≏</b> 14'28	-16°19'27
retrograde	14211 Dec 26 08:27	9° <b>ჲ</b> 00'48		direct	14220 Jun 17 16:14	15° <b>≙</b> 14'21	
min. Earth dist.	14212 Mar 17 06:47	8° <b>ഫ</b> 01'11	46.00706 AU				
opposition	14212 Mar 18 21:49	7° <b>≏</b> 59'18	-16°24'09	conjunction	14220 Sep 24 11:06	16° <b>≙</b> 43'49	-15°39'06
direct	14212 Jun 09 11:49	6° <b>ჲ</b> 58'11		minimum elong	14220 Sep 24 11:15	16° <b>≏</b> 43'49	15°38'54
				max. Earth dist.	14220 Sep 25 19:20	16° <b>≏</b> 45'43	48.84953 AU
conjunction	14212 Sep 16 06:48	8° <b>Ω</b> 29'37	-15°43'56	retrograde	14221 Jan 03 21:22	18° <b>≏</b> 15'36	
minimum elong	14212 Sep 16 06:56	8° <b>॒</b> 29'38	15°43'54	min. Earth dist.	14221 Mar 27 06:19	17° <b>≙</b> 16'36	46.97048 AU
max. Earth dist.	14212 Sep 17 22:08	8° <b>ჲ</b> 32'00	47.99135 AU	opposition	14221 Mar 28 13:51	17° <b>≏</b> 15'06	-16°17'40
retrograde	14212 Dec 26 17:56	10° <b>Ω</b> 03'16		direct	14221 Jun 18 23:55	16° <b>♀</b> 15'04	
min. Earth dist.	14213 Mar 18 13:56		46.13098 AU				
opposition	14213 Mar 20 05:24	9° <b>Ω</b> 01'54		conjunction	14221 Sep 25 17:13	17° <b>≏</b> 44'17	-15°37'19
direct	14213 Jun 10 17:23	8° <b>Ω</b> 00'56	10 2.5.	minimum elong	14221 Sep 25 17:25	17° <b>£</b> 44'17	
	1.213 (411 10 17.23	0 -0020		max. Earth dist.	14221 Sep 27 01:48		48.93612 AU
conjunction	14213 Sep 17 13:39	9° <b>₽</b> 32'06	-15°44'18	retrograde	14222 Jan 05 01:00	19° <b>⊆</b> 15'51	40.95012 110
minimum elong	14213 Sep 17 13:37	9° <b>₽</b> 32'07		opposition	14222 Mar 29 20:14	18° <b>⊆</b> 15'24	-16°15'37
max. Earth dist.	14213 Sep 17 15:47		48.11362 AU	min. Earth dist.	14222 Mar 28 13:31		47.05499 AU
retrograde	14213 Dec 28 01:21	11° <b>⊆</b> 05'30	40.11302 AC	direct	14222 Jun 20 09:42	17° <b>⊆</b> 15'26	47.03477 AO
min. Earth dist.	14213 Dec 28 01:21 14214 Mar 19 23:00		46.25175 AU	direct	14222 Juli 20 09.42	17 = 1320	
opposition	14214 Mar 21 12:50	10° <b>⊆</b> 00'00		conjunction	14222 Sep 26 23:06	18° <b>≏</b> 44'24	15025116
direct	14214 Jun 11 22:52	9° <b>£</b> 03'29	-10 2441	minimum elong	14222 Sep 26 23:16	18° <b>⊆</b> 44'24	
direct	14214 Juli 11 22.32	9 == 03 29		max. Earth dist.	14222 Sep 26 23:16 14222 Sep 28 06:01		49.01936 AU
:	14014 0 10 20-25	10° <b>≏</b> 34'25	15044121		14223 Jan 06 08:38	18 <b>≗</b> 46 14 20° <b>≗</b> 15'45	49.01930 AU
conjunction minimum elong	14214 Sep 18 20:25	10 <b>≥</b> 34 23 10° <b>♀</b> 34'25		retrograde min. Earth dist.	14223 Jan 06 08.38 14223 Mar 29 19:44		47.13637 AU
U	14214 Sep 18 20:34					19 <b>≗</b> 16 30	
max. Earth dist.	14214 Sep 20 11:05		48.23268 AU	opposition	14223 Mar 31 02:35		-10-13-10
retrograde	14214 Dec 29 06:09	12° <b>Ω</b> 07'34	46 26002 ATT	direct	14223 Jun 21 15:46	18° <b>≏</b> 15'29	
min. Earth dist.	14215 Mar 21 06:17		46.36882 AU		14000 0 00 04 50	100 0 44112	1.502.215.7
opposition	14215 Mar 22 20:04	11° <b>Ω</b> 06'30	-16°24'29	conjunction	14223 Sep 28 04:53	19° <b>£</b> 44'13	
direct	14215 Jun 13 05:17	10° <b>≏</b> 05'51		minimum elong	14223 Sep 28 05:05	19° <b>£</b> 44'14	
				max. Earth dist.	14223 Sep 29 11:54		49.09948 AU
conjunction	14215 Sep 20 02:58	11° <b>Ω</b> 36'33		retrograde	14224 Jan 07 15:52	21° <b>Ω</b> 15'23	
minimum elong	14215 Sep 20 03:07	11° <b>Ω</b> 36'33		min. Earth dist.	14224 Mar 30 03:37		47.21463 AU
max. Earth dist.	14215 Sep 21 16:18		48.34770 AU	opposition	14224 Mar 31 08:56	20° <b>£</b> 15′04	-16~10'39
retrograde	14215 Dec 30 12:49	13° <b>Ω</b> 09'30	46.40:	direct	14224 Jun 21 21:43	19° <b>≏</b> 15'16	
min. Earth dist.	14216 Mar 21 14:45	12° <b>≏</b> 10'18	46.48173 AU				
opposition	14216 Mar 23 03:21	12° <b>≏</b> 08'33	-16°24'00	conjunction	14224 Sep 28 10:39	20° <b>≏</b> 43'48	
direct	14216 Jun 13 13:00	11° <b>≏</b> 08'03		minimum elong	14224 Sep 28 10:50	20° <b>≏</b> 43'49	
				max. Earth dist.	14224 Sep 29 16:58	20° <b>≏</b> 45'35	49.17676 AU
conjunction	14216 Sep 20 09:41	12° <b>≏</b> 38'30	-15°43'37	retrograde	14225 Jan 07 21:46	22° <b>≏</b> 14'46	
minimum elong	14216 Sep 20 09:50	12° <b>≏</b> 38'31	15°43'30	min. Earth dist.	14225 Mar 31 09:25	21° <b>≏</b> 15'56	47.28988 AU
max. Earth dist.	14216 Sep 21 22:59	12° <b>≏</b> 40'45	48.45831 AU	opposition	14225 Apr 01 15:04	21° <b>≏</b> 14'32	-16°07'44
retrograde	14216 Dec 30 18:19	14° <b>£</b> 11'15		direct	14225 Jun 23 01:29	20° <b>≏</b> 14'49	
min. Earth dist.	14217 Mar 22 23:11	13° <b>≏</b> 12'07	46.58974 AU				

conjunction	14225 Sep 29 16:13	21° <b>2</b> 43'10 -15°27'29	conjunction	14233 Oct 07 11:58	29° <b>£</b> 33'07 -14°56'04
minimum elong	14225 Sep 29 16:25	21° <b>2</b> 43'11 15°27'13	minimum elong	14233 Oct 07 12:11	29° <b>£</b> 33'08 14°55'38
max. Earth dist.	14225 Sep 30 21:28	21° <b>£</b> 44'53 49.25085 AU	max. Earth dist.	14233 Oct 08 10:03	29° <b>2</b> 34'24 49.68526 AU
retrograde	14226 Jan 09 03:18	23° <b>£</b> 13'58	morning rise	14233 Oct 09 01:09	29° <b>≙</b> 35'16
opposition	14226 Apr 02 21:16	22° <b>£</b> 13'49 -16°04'33	3	14233 Oct 27 02:36	0°M
min. Earth dist.	14226 Apr 01 16:55	22° <b>♀</b> 15'09 47.36189 AU	retrograde	14234 Jan 17 00:03	1°ML02'49
direct	14226 Jun 24 06:27	21° <b>♀</b> 14'12	opposition	14234 Apr 10 19:36	0°ML03'10 -15°30'33
			min. Earth dist.	14234 Apr 09 23:18	0°ML04'07 47.77290 AU
conjunction	14226 Sep 30 21:57	22° <b>£</b> 42'23 -15°24'22		14234 Apr 13 15:23	30° <b>₹</b> Ω
minimum elong	14226 Sep 30 22:09	22° <b>£</b> 42'23 15°24'03	direct	14234 Jul 02 08:33	29° <b>ഫ</b> 04'05
max. Earth dist.	14226 Oct 02 03:18	22° <b>≏</b> 44'06 49.32154 AU		14234 Sep 15 19:57	0° <b>M</b> .
retrograde	14227 Jan 10 06:35	24° <b>£</b> 13′01	evening set	14234 Oct 06 11:29	0°M27'58
min. Earth dist.	14227 Apr 02 23:35	23° <b>£</b> 14'16 47.43006 AU	_		
opposition	14227 Apr 04 03:09	23° <b>£</b> 12'58 -16°01'07	conjunction	14234 Oct 08 17:07	0°ML31'04 -14°51'06
direct	14227 Jun 25 15:15	22° <b>£</b> 13′27	minimum elong	14234 Oct 08 17:22	0°ML31'05 14°50'40
			morning rise	14234 Oct 10 23:17	0°M34'12
conjunction	14227 Oct 02 03:29	23° <b>£</b> 41'28 -15°21'00	max. Earth dist.	14234 Oct 09 14:26	0°ML32'18 49.71967 AU
minimum elong	14227 Oct 02 03:41	23° <b>£</b> 41'29 15°20'41	retrograde	14235 Jan 18 05:54	2°M00'38
max. Earth dist.	14227 Oct 03 06:58	23° <b>£</b> 43'05 49.38829 AU	min. Earth dist.	14235 Apr 11 04:13	1°ML01'59 47.80493 AU
retrograde	14228 Jan 11 14:00	25° <b>£</b> 11'58	opposition	14235 Apr 12 00:48	1°ML01'02 -15°25'15
min. Earth dist.	14228 Apr 03 06:03	24° <b>≙</b> 13'17 47.49411 AU	direct	14235 Jul 03 10:58	0°ML02'00
opposition	14228 Apr 04 09:10	24° <b>£</b> 12'01 -15°57'26	evening set	14235 Oct 07 03:08	1°M25'00
direct	14228 Jun 25 21:19	23° <b>£</b> 12'36			
			conjunction	14235 Oct 09 22:09	1°M28'52 -14°45'54
conjunction	14228 Oct 02 09:00	24° <b>£</b> 40'27 -15°17'23	minimum elong	14235 Oct 09 22:22	1°ML28'53 14°45'27
minimum elong	14228 Oct 02 09:13	24° <b>£</b> 40'28 15°17'02	max. Earth dist.	14235 Oct 10 18:19	1°ML30'02 49.75097 AU
max. Earth dist.	14228 Oct 03 12:17	24° <b>£</b> 42'03 49.45047 AU	morning rise	14235 Oct 12 17:41	1°M32'46
retrograde	14229 Jan 11 22:17	26° <b>£</b> 10′50	retrograde	14236 Jan 19 10:47	2°M58'19
opposition	14229 Apr 05 15:14	25° <b>£</b> 10'57 -15°53'30	min. Earth dist.	14236 Apr 11 10:55	1°ML59'39 47.83408 AU
min. Earth dist.	14229 Apr 04 14:06	25° <b>£</b> 12'08 47.55325 AU	opposition	14236 Apr 12 06:15	1°ML58'45 -15°19'41
direct	14229 Jun 27 02:24	24° <b>£</b> 11'38	direct	14236 Jul 03 13:39	0°ML59'47
			evening set	14236 Oct 06 20:38	2°M22'01
conjunction	14229 Oct 03 14:38	25° <b>£</b> 39'20 -15°13'33			
minimum elong	14229 Oct 03 14:50	25° <b>£</b> 39'21 15°13'13	conjunction	14236 Oct 10 03:06	2°M26'33 -14°40'27
max. Earth dist.	14229 Oct 04 16:33	25° <b>≙</b> 40'51 49.50765 AU	minimum elong	14236 Oct 10 03:20	2°M26'33 14°40'00
retrograde	14230 Jan 13 03:48	27° <b>♀</b> 09'34	max. Earth dist.	14236 Oct 10 23:38	2°M27'44 49.77953 AU
opposition	14230 Apr 06 20:56	26° <b>£</b> 09'46 -15°49'22	morning rise	14236 Oct 13 10:08	2°M31'06
min. Earth dist.	14230 Apr 05 19:58	26° <b>≙</b> 10'56 47.60706 AU	retrograde	14237 Jan 19 12:59	3°M55'54
direct	14230 Jun 28 06:10	25° <b>£</b> 10'31	opposition	14237 Apr 13 11:32	2°M56'23 -15°13'51
			min. Earth dist.	14237 Apr 12 16:32	2°M57'16 47.86025 AU
conjunction	14230 Oct 04 20:09	26° <b>£</b> 38'05 -15°09'31	direct	14237 Jul 04 21:40	1°ML57'28
minimum elong	14230 Oct 04 20:22	26° <b>£</b> 38'06 15°09'08	evening set	14237 Oct 07 15:12	3°M19'00
max. Earth dist.	14230 Oct 05 20:19	26° <b>£</b> 39'29 49.55932 AU			
retrograde	14231 Jan 14 08:08	28° <b>£</b> 08'11	conjunction	14237 Oct 11 08:03	3°M24'08 -14°34'45
min. Earth dist.	14231 Apr 07 03:41	27° <b>£</b> 09'30 47.65544 AU	minimum elong	14237 Oct 11 08:17	3°M24'09 14°34'16
opposition	14231 Apr 08 02:49	27° <b>£</b> 08'25 -15°45'00	max. Earth dist.	14237 Oct 12 02:57	3°M25'13 49.80516 AU
direct	14231 Jun 29 12:07	26° <b>£</b> 09'14	morning rise	14237 Oct 15 01:30	3°M29'18
			retrograde	14238 Jan 20 18:24	4°M53'25
conjunction	14231 Oct 06 01:34	27° <b>△</b> 36'39 -15°05'15	opposition	14238 Apr 14 16:39	3°ML53'57 -15°07'47
minimum elong	14231 Oct 06 01:46	27° <b>£</b> 36'39 15°04'52	min. Earth dist.	14238 Apr 13 22:01	3°M54'49 47.88347 AU
max. Earth dist.	14231 Oct 07 01:37	27° <b>£</b> 38'03 49.60576 AU	direct	14238 Jul 06 04:19	2°M55'05
retrograde	14232 Jan 15 10:31	29° <b>£</b> 06'36	evening set	14238 Oct 08 10:33	4° <b>ጤ</b> 16'01
min. Earth dist.	14232 Apr 07 10:14	28° <b>2</b> 07'55 47.69866 AU			
opposition	14232 Apr 08 08:29	28° <b>£</b> 06'53 -15°40'26	conjunction	14238 Oct 12 13:04	4°M21'41 -14°28'49
direct	14232 Jun 29 20:55	27° <b>♀</b> 07'43	minimum elong	14238 Oct 12 13:18	4°M21'41 14°28'20
			max. Earth dist.	14238 Oct 13 07:58	4°M22'46 49.82754 AU
conjunction	14232 Oct 06 06:47	28° <b>△</b> 34'59 -15°00'46	morning rise	14238 Oct 16 16:12	4°M27'24
minimum elong	14232 Oct 06 07:01	28° <b>△</b> 35'00 15°00'22	retrograde	14239 Jan 22 02:14	5° <b>M</b> .50'54
max. Earth dist.	14232 Oct 07 04:56	28° <b>△</b> 36'17 49.64752 AU	opposition	14239 Apr 15 21:56	4°M.51'30 -15°01'28
	14232 Dec 25 10:36	0°M	min. Earth dist.	14239 Apr 15 04:56	4°ML52'17 47.90315 AU
retrograde	14233 Jan 15 17:18	0°ML04'48	direct	14239 Jul 07 09:53	3°M.52'41
	14233 Feb 06 06:31	30° <b>₹</b> Ω	evening set	14239 Oct 09 06:27	5°M13'01
opposition	14233 Apr 09 14:03	29° <b>2</b> 05'07 -15°35'37	_		
min. Earth dist.	14233 Apr 08 16:09	29° <b>2</b> 06'09 47.73767 AU	conjunction	14239 Oct 13 17:56	5°M19'12 -14°22'39
direct	14233 Jul 01 02:36	28° <b>ჲ</b> 06'00	minimum elong	14239 Oct 13 18:11	5°M 19'13 14°22'07
evening set	14233 Oct 05 23:14	29° <b>ჲ</b> 31′00	max. Earth dist.	14239 Oct 14 11:50	5°M20'14 49.84632 AU
			morning rise	14239 Oct 18 06:05	5°M25'25

retrograde	14240 Jan 23 09:24	6° <b>™</b> .48'21	minimum elong	14246 Oct 20 04:53	11°ML59'40 13°33'03
min. Earth dist.	14240 Apr 15 09:56	5°M49'48 47.91887	AU max. Earth dist.	14246 Oct 20 15:47	12°ML00'18 49.84381 AU
opposition	14240 Apr 16 03:05	5°M49'00 -14°54'55	morning rise	14246 Oct 26 22:20	12°M08'54
direct	14240 Jul 07 12:21	4°M50'15	retrograde	14247 Jan 29 16:46	13°M28'23
evening set	14240 Oct 09 02:50	6°M10′02	opposition	14247 Apr 23 14:38	12°M29'05 -14°03'12
			min. Earth dist.	14247 Apr 23 04:50	12°M29'32 47.89321 AU
conjunction	14240 Oct 13 22:54	6°M16'42 -14°16'16	direct	14247 Jul 14 23:45	11°M30'24
minimum elong	14240 Oct 13 23:08	6°M16'43 14°15'45	0	14247 Oct 14 09:42	12°M46'50
max. Earth dist.	14240 Oct 14 15:18	6°M17'39 49.86074			
morning rise	14240 Oct 18 19:40	6° <b>™</b> 23'24	conjunction	14247 Oct 21 09:16	12°M56'25 -13°25'49
retrograde	14241 Jan 23 14:17	7° <b>M</b> 45'48	minimum elong	14247 Oct 21 09:30	12°M56'25 13°25'11
opposition	14241 Apr 17 08:21	6°M46'29 -14°48'09		14247 Oct 21 18:48	12°M 56'57 49.82701 AU
min. Earth dist.	14241 Apr 16 17:09	6°M47'12 47.93003	· ·	14247 Oct 28 09:47	13°M06'02
direct	14241 Jul 08 15:56	5°M47'47	retrograde	14248 Jan 30 21:23	14°M25'07
evening set	14241 Oct 09 23:47	7° <b>M</b> 07'02	opposition	14248 Apr 23 19:36	13°M25'49 -13°54'54
	14241 0 4 15 04 02	70 <b>m</b> 14110 14000140	min. Earth dist.	14248 Apr 23 10:15	13°M26'16 47.87382 AU
conjunction	14241 Oct 15 04:02	7°M14'10 -14°09'40		14248 Jul 15 05:34	12°M27'09
minimum elong max. Earth dist.	14241 Oct 15 04:16 14241 Oct 15 20:13	7°M.14'11 14°09'07	0	14248 Oct 14 07:48	13°M43'13
max. Earth dist.	14241 Oct 13 20:13 14241 Oct 20 08:57	7°M15'06 49.87031 7°M21'20	conjunction	14248 Oct 21 14:06	13°ML53'09 -13°17'43
retrograde	14241 Oct 20 08.37	8°M43'12	minimum elong	14248 Oct 21 14:00	13°ML53'10 13°17'04
opposition	14242 Jan 24 13:31	7°M43'55 -14°41'11	ě	14248 Oct 21 14:20 14248 Oct 21 23:38	13°ML53'42 49.80718 AU
min. Earth dist.	14242 Apr 17 23:09	7°M44'35 47.93587		14248 Oct 28 21:18	14°ML03'10
direct	14242 Jul 09 22:51	6°M45'14	AC morning rise	14248 Dec 15 16:50	15°M
evening set	14242 Oct 10 21:02	8°M03'58	retrograde	14249 Jan 31 03:52	15°M21'52
e venning see	11212 000 10 21.02	0 11003 30	retrograde	14249 Mar 19 13:52	15°RM
conjunction	14242 Oct 16 09:02	8°M11'33 -14°02'53	opposition	14249 Apr 25 00:33	14°M22'35 -13°46'23
minimum elong	14242 Oct 16 09:15	8°M11'34 14°02'19	**	14249 Apr 24 16:31	14°M22'58 47.85137 AU
max. Earth dist.	14242 Oct 16 22:51	8°M12'21 49.87449		14249 Jul 16 11:23	13°M23'56
morning rise	14242 Oct 21 21:47	8°M19'10	evening set	14249 Oct 15 06:09	14°M39'37
retrograde	14243 Jan 25 20:56	9° <b>M</b> .40'31	**************************************		
opposition	14243 Apr 19 18:34	8°M41'14 -14°34'01	conjunction	14249 Oct 22 18:53	14°M49'56 -13°09'24
min. Earth dist.	14243 Apr 19 05:05	8°M41'52 47.93636	AU minimum elong	14249 Oct 22 19:07	14°M49'57 13°08'45
direct	14243 Jul 11 04:37	7° <b>M</b> ₊42'34	max. Earth dist.	14249 Oct 23 03:36	14°ML50'26 49.78446 AU
evening set	14243 Oct 11 18:29	9° <b>™</b> .00'49	morning rise	14249 Oct 30 08:34	15°ML00'19
				14249 Oct 30 03:03	15° <b>™</b>
conjunction	14243 Oct 17 14:05	9°M08'48 -13°55'54	retrograde	14250 Feb 01 11:31	16° <b>™</b> 18'40
minimum elong	14243 Oct 17 14:20	9°M08'49 13°55'19	opposition	14250 Apr 26 05:24	15°M19'25 -13°37'37
max. Earth dist.	14243 Oct 18 03:28	9°M09'34 49.87334	AU min. Earth dist.	14250 Apr 25 21:05	15°M19'48 47.82580 AU
morning rise	14243 Oct 23 10:28	9°M16'51		14250 May 13 23:53	15°RM
retrograde	14244 Jan 27 02:43	10° <b>M</b> ⋅37'42	direct	14250 Jul 17 13:25	14° <b>M</b> 20'47
opposition	14244 Apr 19 23:47	9°M38'25 -14°26'39	)	14250 Sep 17 22:23	15° <b>™</b>
min. Earth dist.	14244 Apr 19 12:06	9°M38'58 47.93167	AU evening set	14250 Oct 16 04:33	15°M36'08
direct	14244 Jul 11 11:25	8°M39'44			
evening set	14244 Oct 11 16:03	9° <b>M</b> 57′30	conjunction	14250 Oct 23 23:39	15°ML46'49 -13°00'51
			minimum elong	14250 Oct 23 23:54	15°M46'50 13°00'10
conjunction	14244 Oct 17 18:53	10°M05'53 -13°48'42		14250 Oct 24 07:04	15°ML47'14 49.75833 AU
minimum elong	14244 Oct 17 19:07	10°M05'54 13°48'07	Č	14250 Oct 31 19:51	15°M57'33
max. Earth dist.	14244 Oct 18 07:15	10°M.06'36 49.86751	ū	14251 Feb 02 17:00	17°M15'34
morning rise	14244 Oct 23 22:29	10°M.14'21	opposition	14251 Apr 27 10:19	16°M16'21 -13°28'37
retrograde opposition	14245 Jan 27 08:48 14245 Apr 21 04:47	11°M34'43 10°M35'26 -14°19'03	min. Earth dist.	14251 Apr 27 03:45 14251 Jul 18 16:11	16°M16'39 47.79674 AU 15°M17'45
min. Earth dist.	14245 Apr 20 17:04	10°M235'58 47.92256		14251 Oct 17 03:10	16°M32'47
direct	14245 Jul 12 14:51	9°M36'45	AO evening set	14231 Oct 17 03.10	10 1163247
evening set	14245 Oct 12 13:48	10°M54'02	conjunction	14251 Oct 25 04:36	16°M43'50 -12°52'05
evening set	17275 001 12 15.40	10 HW37 02	minimum elong	14251 Oct 25 04:50	16°M43'50 12°51'24
conjunction	14245 Oct 18 23:44	11°ML02'50 -13°41'18	ě	14251 Oct 25 12:06	16°M44'15 49.72858 AU
minimum elong	14245 Oct 18 23:59	11°M02'51 13°40'42		14251 Nov 02 06:58	16°M54'55
max. Earth dist.	14245 Oct 19 10:43	11°ML03'28 49.85741	Č	14252 Feb 03 18:44	18°M12'37
morning rise	14245 Oct 25 10:35	11°ML11'41	opposition	14252 Apr 27 15:16	17°M13'26 -13°19'25
retrograde	14246 Jan 28 14:26	12°M31'36	min. Earth dist.	14252 Apr 27 09:12	17°ML13'43 47.76364 AU
opposition	14246 Apr 22 09:43	11°M32'18 -14°11'14		14252 Jul 18 22:16	16°M14'52
min. Earth dist.	14246 Apr 21 23:39	11°M32'46 47.90962		14252 Oct 17 01:58	17°M29'36
direct	14246 Jul 13 17:13	10°M33'37	-		
evening set	14246 Oct 13 11:45	11°ML50'28	conjunction	14252 Oct 25 09:24	17°ML40'59 -12°43'07
			minimum elong	14252 Oct 25 09:39	17°M41'00 12°42'24
conjunction	14246 Oct 20 04:39	11°ML59'40 -13°33'40	max. Earth dist.	14252 Oct 25 14:49	17°ML41'18 49.69451 AU

morning rise	14252 Nov 02 18:00	17° <b>M</b> 52'26	conjunction	14259 Nov 01 20:43	24°M22'12 -11°34'46
retrograde	14253 Feb 03 23:56	19° <b>M</b> 09'50	minimum elong	14259 Nov 01 20:56	24°M22'13 11°33'58
opposition	14253 Apr 28 20:16	18°M10'39 -13°09'59	max. Earth dist.	14259 Nov 01 19:20	24°M22'07 49.31623 AU
min. Earth dist.	14253 Apr 28 15:08	18°M10'54 47.72596 AU	morning rise	14259 Nov 11 21:15	24°M35'57
direct	14253 Jul 20 03:56	17°M12'06	retrograde	14260 Feb 11 14:55	25°M51'19
evening set	14253 Oct 18 00:58	18°M26'33	opposition	14260 May 05 07:09	24°M51'52 -11°58'19
			min. Earth dist.	14260 May 05 08:31	24°M51'49 47.32323 AU
conjunction	14253 Oct 26 14:33	18°M38'16 -12°33'56	direct	14260 Jul 26 14:31	23°M53'01
minimum elong	14253 Oct 26 14:47	18°M38'17 12°33'14	evening set	14260 Oct 22 21:04	25°M05'29
max. Earth dist.	14253 Oct 26 19:22	18°M38'32 49.65534 AU			
morning rise	14253 Nov 04 05:11	18° <b>M</b> 50'04	conjunction	14260 Nov 02 01:39	25°M19'27 -11°24'08
retrograde	14254 Feb 05 06:07	20°M07'10	minimum elong	14260 Nov 02 01:52	25°M19'28 11°23'21
opposition	14254 Apr 30 01:12	19°ML08'00 -13°00'22	max. Earth dist.	14260 Nov 01 23:04	25°ML19'19 49.24665 AU
min. Earth dist.	14254 Apr 29 22:04	19° <b>M</b> .08'09 47.68285 AU	morning rise	14260 Nov 12 07:40	25°M33'31
direct	14254 Jul 21 10:22	18° <b>M</b> .09'26	retrograde	14261 Feb 11 21:49	26°M.48'39
evening set	14254 Oct 19 00:19	19° <b>M</b> 23'35	opposition	14261 May 06 12:17	25°ML49'09 -11°47'11
			min. Earth dist.	14261 May 06 15:18	25°M49'01 47.25094 AU
conjunction	14254 Oct 27 19:41	19°M35'38 -12°24'35	direct	14261 Jul 27 16:58	24°ML50'15
minimum elong	14254 Oct 27 19:56	19°M 35'39 12°23'51	evening set	14261 Oct 23 20:58	26°ML02'30
max. Earth dist.	14254 Oct 27 23:07	19°M-35'50 49.61078 AU	. ,.	140(1)1 02 06 52	2 (0) 1 (147 11012110
morning rise	14254 Nov 05 16:10	19°M-47'47	conjunction	14261 Nov 03 06:53	26°M.16'47 -11°13'18
retrograde	14255 Feb 06 13:10	21°M04'34	minimum elong	14261 Nov 03 07:06	26°M,16'48 11°12'28
opposition	14255 May 01 06:11	20°M05'23 -12°50'33	max. Earth dist.	14261 Nov 03 04:30	26°M.16'39 49.17420 AU
min. Earth dist.	14255 May 01 03:18	20°M 05'31 47.63420 AU	morning rise	14261 Nov 13 18:01	26°M31'09
direct	14255 Jul 22 13:41	19°M.06'48	retrograde	14262 Feb 13 00:45	27°M46'03
evening set	14255 Oct 19 23:26	20°M20'38	opposition	14262 May 07 17:11	26°M46'31 -11°35'48
agnismation	14255 Oct 29 00:36	20°M.33'02 -12°15'02	min. Earth dist. direct	14262 May 07 20:17 14262 Jul 28 22:07	26°M46'23 47.17560 AU 25°M47'35
conjunction minimum elong	14255 Oct 29 00:49	20°M-33'02 -12 13'02 20°M-33'02 12°14'17	evening set	14262 Jul 28 22:07 14262 Oct 24 21:04	26°M59'38
max. Earth dist.	14255 Oct 29 00:49	20°M-33'07 49.56063 AU	evening set	14202 OCt 24 21.04	20 1163936
morning rise	14255 Nov 07 03:00	20°M45'30	conjunction	14262 Nov 04 11:59	27°ML14'13 -11°02'13
retrograde	14256 Feb 07 20:20	20°ML01'59	minimum elong	14262 Nov 04 11:39	27°ML14'14 11°01'25
opposition	14256 May 01 11:20	21°M02'46 -12°40'32	max. Earth dist.	14262 Nov 04 07:47	27°ML13'58 49.09867 AU
min. Earth dist.	14256 May 01 10:25	21°ML02'48 47.58024 AU	morning rise	14262 Nov 15 04:24	27°M28'53
direct	14256 Jul 22 15:15	20°M.04'08	retrograde	14263 Feb 14 05:17	28°M43'35
evening set	14256 Oct 19 22:48	21°M17'40	opposition	14263 May 08 22:19	27°ML44'02 -11°24'12
evening sec	1.200 000 19 22.10	21 110/17 10	min. Earth dist.	14263 May 09 02:11	27°ML43'51 47.09712 AU
conjunction	14256 Oct 29 05:43	21°M30'24 -12°05'17	direct	14263 Jul 30 03:13	26°M45'03
minimum elong	14256 Oct 29 05:57	21°M30'24 12°04'32	evening set	14263 Oct 25 21:03	27°M56'55
max. Earth dist.	14256 Oct 29 07:14	21°M30'29 49.50554 AU	<u>8</u>		
morning rise	14256 Nov 07 13:43	21°M43'11	conjunction	14263 Nov 05 17:08	28°M11'48 -10°50'56
retrograde	14257 Feb 07 23:00	22°M59'22	minimum elong	14263 Nov 05 17:22	28°M11'49 10°50'05
opposition	14257 May 02 16:14	22°ML00'06 -12°30'19	max. Earth dist.	14263 Nov 05 12:52	28°M11'34 49.01965 AU
min. Earth dist.	14257 May 02 15:47	22°M00'07 47.52154 AU	morning rise	14263 Nov 16 14:37	28°M26'47
direct	14257 Jul 23 20:39	21°M01'24	retrograde	14264 Feb 15 10:32	29° <b>M</b> .41'19
evening set	14257 Oct 20 22:17	22°M14'40	opposition	14264 May 09 03:35	28°M41'43 -11°12'22
			min. Earth dist.	14264 May 09 08:56	28°M41'28 47.01484 AU
conjunction	14257 Oct 30 10:40	22°M27'42 -11°55'19	direct	14264 Jul 30 09:48	27° <b>M</b> 42'43
minimum elong	14257 Oct 30 10:53	22°M27'43 11°54'33	evening set	14264 Oct 25 21:31	28°M54'25
max. Earth dist.	14257 Oct 30 10:16	22°M27'40 49.44607 AU			
morning rise	14257 Nov 09 00:21	22°M40'48	conjunction	14264 Nov 05 22:31	29°M09'36 -10°39'25
retrograde	14258 Feb 09 02:36	23°M56'42	minimum elong	14264 Nov 05 22:43	29°M09'37 10°38'35
opposition			TO 1 12 1		
min. Earth dist.	14258 May 03 21:13	22°M57'22 -12°19'53	max. Earth dist.	14264 Nov 05 17:09	29°M09'17 48.93670 AU
	14258 May 03 21:37	22°M57'21 47.45888 AU	max. Earth dist. morning rise	14264 Nov 05 17:09 14264 Nov 17 00:56	29°M24'53
direct	•	22°M57'21 47.45888 AU 21°M58'38			29°M24'53 0° <i>₹</i> <sup>7</sup>
direct evening set	14258 May 03 21:37	22°M57'21 47.45888 AU		14264 Nov 17 00:56 14264 Dec 14 14:33 14265 Feb 15 17:45	29°M24'53 0° 🗷 0° 🗷 39'15
evening set	14258 May 03 21:37 14258 Jul 25 02:51 14258 Oct 21 21:44	22°M57'21 47.45888 AU 21°M58'38 23°M11'37	morning rise	14264 Nov 17 00:56 14264 Dec 14 14:33 14265 Feb 15 17:45 14265 Apr 21 20:16	29°M24'53 0°X <sup>7</sup> 0°X <sup>7</sup> 39'15 30°RM
evening set	14258 May 03 21:37 14258 Jul 25 02:51 14258 Oct 21 21:44 14258 Oct 31 15:42	22°M.57'21 47.45888 AU 21°M.58'38 23°M.11'37 23°M.24'57 -11°45'09	morning rise retrograde opposition	14264 Nov 17 00:56 14264 Dec 14 14:33 14265 Feb 15 17:45 14265 Apr 21 20:16 14265 May 10 08:42	29°M24'53 0°⊀ 0°⊀³39'15 30°RM 29°M39'38 -11°00'19
evening set  conjunction  minimum elong	14258 May 03 21:37 14258 Jul 25 02:51 14258 Oct 21 21:44 14258 Oct 31 15:42 14258 Oct 31 15:56	22°M.57'21 47.45888 AU 21°M.58'38 23°M.11'37 23°M.24'57 -11°45'09 23°M.24'58 11°44'23	morning rise retrograde opposition min. Earth dist.	14264 Nov 17 00:56 14264 Dec 14 14:33 14265 Feb 15 17:45 14265 Apr 21 20:16 14265 May 10 08:42 14265 May 10 14:15	29°M24'53 0° 🗷 0° 🗷 30°RM 29°M39'38 -11°00'19 29°M39'22 46.92828 AU
evening set  conjunction  minimum elong  max. Earth dist.	14258 May 03 21:37 14258 Jul 25 02:51 14258 Oct 21 21:44 14258 Oct 31 15:42 14258 Oct 31 15:56 14258 Oct 31 15:06	22°M.57'21 47.45888 AU 21°M.58'38 23°M.11'37 23°M.24'57 -11°45'09 23°M.24'58 11°44'23 23°M.24'55 49.38273 AU	morning rise retrograde opposition min. Earth dist. direct	14264 Nov 17 00:56 14264 Dec 14 14:33 14265 Feb 15 17:45 14265 Apr 21 20:16 14265 May 10 08:42 14265 May 10 14:15 14265 Jul 31 13:57	29°M24'53 0° ₹7 0° ₹739'15 30°RM 29°M39'38 -11°00'19 29°M39'22 46.92828 AU 28°M40'35
evening set  conjunction minimum elong max. Earth dist. morning rise	14258 May 03 21:37 14258 Jul 25 02:51 14258 Oct 21 21:44 14258 Oct 31 15:42 14258 Oct 31 15:56 14258 Oct 31 15:06 14258 Nov 10 10:53	22°M.57'21 47.45888 AU 21°M.58'38 23°M.21'37 23°M.24'57 -11°45'09 23°M.24'58 11°44'23 23°M.24'55 49.38273 AU 23°M.38'23	morning rise retrograde opposition min. Earth dist.	14264 Nov 17 00:56 14264 Dec 14 14:33 14265 Feb 15 17:45 14265 Apr 21 20:16 14265 May 10 08:42 14265 May 10 14:15 14265 Jul 31 13:57 14265 Oct 26 22:07	29°M24'53 0° ₹7 0° ₹39'15 30°RM 29°M39'38 -11°00'19 29°M39'22 46.92828 AU 28°M40'35 29°M52'07
evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	14258 May 03 21:37 14258 Jul 25 02:51 14258 Oct 21 21:44 14258 Oct 31 15:42 14258 Oct 31 15:56 14258 Oct 31 15:06 14258 Nov 10 10:53 14259 Feb 10 07:02	22°M.57'21 47.45888 AU 21°M.58'38 23°M.11'37 23°M.24'57 -11°45'09 23°M.24'58 11°44'23 23°M.24'55 49.38273 AU 23°M.38'23 24°M.54'01	morning rise retrograde opposition min. Earth dist. direct	14264 Nov 17 00:56 14264 Dec 14 14:33 14265 Feb 15 17:45 14265 Apr 21 20:16 14265 May 10 08:42 14265 May 10 14:15 14265 Jul 31 13:57	29°M24'53 0° ₹7 0° ₹739'15 30°RM 29°M39'38 -11°00'19 29°M39'22 46.92828 AU 28°M40'35
evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition	14258 May 03 21:37 14258 Jul 25 02:51 14258 Oct 21 21:44 14258 Oct 31 15:42 14258 Oct 31 15:56 14258 Oct 31 15:06 14258 Nov 10 10:53 14259 Feb 10 07:02 14259 May 05 02:11	22°M.57'21 47.45888 AU 21°M.58'38 23°M.11'37 23°M.24'57 -11°45'09 23°M.24'58 11°44'23 23°M.24'55 49.38273 AU 23°M.38'23 24°M.54'01 23°M.54'38 -12°09'13	morning rise retrograde opposition min. Earth dist. direct evening set	14264 Nov 17 00:56 14264 Dec 14 14:33 14265 Feb 15 17:45 14265 Apr 21 20:16 14265 May 10 08:42 14265 May 10 14:15 14265 Jul 31 13:57 14265 Oct 26 22:07 14265 Nov 01 15:53	29°M24'53 0°×739'15 30°RM 29°M39'38 -11°00'19 29°M39'22 46.92828 AU 28°M40'35 29°M52'07 0°×7
evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	14258 May 03 21:37 14258 Jul 25 02:51 14258 Oct 21 21:44 14258 Oct 31 15:42 14258 Oct 31 15:56 14258 Oct 31 15:06 14258 Nov 10 10:53 14259 Feb 10 07:02 14259 May 05 02:11 14259 May 05 03:54	22°M.57'21 47.45888 AU 21°M.58'38 23°M.11'37 23°M.24'57 -11°45'09 23°M.24'58 11°44'23 23°M.24'55 49.38273 AU 23°M.38'23 24°M.54'01 23°M.54'38 -12°09'13 23°M.54'33 47.39257 AU	morning rise retrograde opposition min. Earth dist. direct evening set conjunction	14264 Nov 17 00:56 14264 Dec 14 14:33 14265 Feb 15 17:45 14265 Apr 21 20:16 14265 May 10 08:42 14265 May 10 14:15 14265 Jul 31 13:57 14265 Oct 26 22:07 14265 Nov 01 15:53	29°M24'53 0°x³39'15 30°RM 29°M39'38 -11°00'19 29°M39'22 46.92828 AU 28°M40'35 29°M52'07 0°x³07'36 -10°27'42
evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	14258 May 03 21:37 14258 Jul 25 02:51 14258 Oct 21 21:44 14258 Oct 31 15:42 14258 Oct 31 15:56 14258 Oct 31 15:06 14258 Nov 10 10:53 14259 Feb 10 07:02 14259 May 05 02:11 14259 May 05 03:54 14259 Jul 26 10:56	22°M.57'21 47.45888 AU 21°M.58'38 23°M.21'37 23°M.24'57 -11°45'09 23°M.24'58 11°44'23 23°M.24'55 49.38273 AU 23°M.38'23 24°M.54'01 23°M.54'38 -12°09'13 23°M.54'33 47.39257 AU 22°M.55'49	retrograde  opposition min. Earth dist. direct evening set  conjunction minimum elong	14264 Nov 17 00:56 14264 Dec 14 14:33 14265 Feb 15 17:45 14265 Apr 21 20:16 14265 May 10 08:42 14265 May 10 14:15 14265 Jul 31 13:57 14265 Oct 26 22:07 14265 Nov 01 15:53 14265 Nov 07 03:59 14265 Nov 07 04:12	29°M24'53 0° x7 0° x739'15 30°RM 29°M39'38 -11°00'19 29°M39'22 46.92828 AU 28°M40'35 29°M52'07 0° x7 0° x707'36 -10°27'42 0° x707'37 10°26'50
evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	14258 May 03 21:37 14258 Jul 25 02:51 14258 Oct 21 21:44 14258 Oct 31 15:42 14258 Oct 31 15:56 14258 Oct 31 15:06 14258 Nov 10 10:53 14259 Feb 10 07:02 14259 May 05 02:11 14259 May 05 03:54	22°M.57'21 47.45888 AU 21°M.58'38 23°M.11'37 23°M.24'57 -11°45'09 23°M.24'58 11°44'23 23°M.24'55 49.38273 AU 23°M.38'23 24°M.54'01 23°M.54'38 -12°09'13 23°M.54'33 47.39257 AU	morning rise retrograde opposition min. Earth dist. direct evening set conjunction	14264 Nov 17 00:56 14264 Dec 14 14:33 14265 Feb 15 17:45 14265 Apr 21 20:16 14265 May 10 08:42 14265 May 10 14:15 14265 Jul 31 13:57 14265 Oct 26 22:07 14265 Nov 01 15:53	29°M24'53 0°x³39'15 30°RM 29°M39'38 -11°00'19 29°M39'22 46.92828 AU 28°M40'35 29°M52'07 0°x³07'36 -10°27'42

Mathematic   Mat	retrograde	14266 Feb 17 02:00	1° <b>∡</b> ³37'24		conjunction	14272 Nov 13 19:44	6° <b>₹</b> 57'58	-8°50'5 <i>/</i> 1
initer Earth Alter         4206 May 1 21-24         67-772 May 88-3060 A         max. Earth Safe (1427 Nov 2 10) 644 (272 Nov 2 10) 644 (272 Nov 2 10) 64 (272 N	•			-10°48'04	3			
1406 No.   1	**	•			· ·			
direct         4268 Sep 18 15 30         PSP 2000         centum set         4268 Sep 18 15 31         PSP 2000         centum set         4268 Sep 18 15 31         PSP 2000         centum set         4268 Sep 18 15 32         PSP 2000         centum set         4268 Sep 18 15 32         PSP 2000         centum set         4223 May 18 10 22         62 78 28 38 37 100 AU               companies             4266 Sev 08 90.07             179,099 10 1145 Sep 10 1145 May 18 10 12 42 May 18 10 12 40	mm. Earth dist.	,		40.03000710				40.10000 710
Part	direct		-		Č			
evening         4,266 Nov. 18 19.25         9,78,902         ominimation (one) (received from the continuous)         4,4273 May 80 19.18 17.55         6,728,289 11.01 14.01 14.02 14.0	direct	- C			-			-9°16'08
conjunction         d.266 Nov 08 09.37         P.879 9 - 10°1 138         circuing set         14273 Nov 02 16°1 12°3 Nov 20°1 07°4 50°9         10°1 45°5 Nov 10°1 14°1 12°3 Nov 10°1 11°1 12°3 Nov 10°1 11°4 10°3 Por 20°1 79°5 90°4         7.879 90°4 17°4 85°8 NJ           minimum clong         14266 Nov 08 02.03         17-90°2 9         10°1 45°8         max Earth dist.         14273 Nov 10°1 11°4         7.975°78         47.985°8 NJ           morning rise         14266 Nov 10°1 131         12°2114         conjunction         14273 Nov 15°1 14°1         7.975°718         48.492°2           opposition         14267 May 12°1025         12°380°1         10°336°3         reminimum clong         14278 Nov 10°104         8°278°10°1         10°100°104         14274 Nov 10°104         8°278°10°1         10°100         14274 Nov 20°104         8°278°20°1         9°28°10         10°100         14274 Nov 20°104         8°278°20°1         9°28°10         10°100         14274 Nov 20°105         8°278°20°1         9°28°10         10°100         14274 Nov 10°10         8°278°20°1         10°201         12°200         12°200 Nov 20°10         8°278°20°1         10°201         12°200 Nov 20°10         8°278°20°1         10°200         12°200 Nov 20°10         8°278°20°1         10°200         12°200 Nov 20°10         8°278°20°1         10°200         12°200 Nov 20°10         8°278°20°1         10°2	evening set				* *	,		
conjunction         1426 Now So 89-37         1-96-99   1011-558         eventing and 1263 Now So 80-98         1-97-99   1011-558         event Farth dist         1-267 Now 14 11-6         7-98-992   47-98-80 A           max. Farth dist         1266 Now So 80-20         1-97-992   487-899 AU         conjunction         14273 Now 15 01-8         7-97-571   8-48-427           ethoridade         1266 Now 19-10-35         1-97-893   487-890 AU         conjunction         14273 Now 15 01-8         7-97-571   8-48-42           min. Earth dist         1266 Now 19-10-35         1-97-890   49-98-90         conjunction         14273 Now 15 01-8         8-97-97-90           ceriang set         1267 Nov 20-15-11         2-98-901   -107-934         ceriang set         14274 Nov 20-00-28         8-98-92-90           conjunction         12427 Nov 0-15-12         2-98-901   -107-934         ceriang set         14274 Nov 10-00-28         8-98-92-90           morning me         14267 Nov 0-15-12         2-98-90         107-948         ceriang set         14274 Nov 16-07-3         8-98-95-8         8-91-949           morning me         14267 Nov 0-15-12         2-98-92-90         conjunction         14274 Nov 16-07-3         8-98-92-90         8-98-92-90           morning me         14267 Nov 0-15-12         2-98-92-90         1-98-92-91         conjunction	evening set	14200 001 27 22:32	0 7 30 02			•		40.07100710
mammentong max. Earth dist.         1426 Novo 80 20-96         7-96-98 (247580)         max. Earth dist.         1427 Novo 14 11-8         7-97-592 (247680)         47.98659 A)           morning rise         1266 Novo 19 21-33         167-2141         conjunction         14273 Nov 15 01-37         7-97-5718 -84/627           cholograde         14267 May 12 01-55         17-93-01         1-97-384         morning rise         14237 Nov 15 01-47         7-97-5718 -84/627           opposition         14267 May 12 01-55         17-93-93         46 79-66 AU         morning rise         14237 Nov 15 01-47         7-92-720         9-92-803           origination         14267 Nov 0 152-1         27-94-11         100-014         certain st.         1427 Nov 0 10-01         8-92-81         100-014         1427 Nov 0 00-03         8-92-855         8-98-858         100-014         1427 Nov 0 00-03         8-92-855         8-98-858         100-014         1427 Nov 0 00-03         8-98-855         <	conjunction	14266 Nov 08 09:37	1° ₹05'49	-10°15'48		•		
max End dot								47 08650 ATT
Manual Profession   1426 Nov 9 19 2143   192141   19214	Č				max. Larm dist.	142/3 1101 14 11.40	1 × 302)	47.76037 AC
Proposition   1426 Feb 18 60-14   2-28-3514   minimum clong   1423 Nov 1 5 01-158   7-28-5719   8-4522   minimum Earth dist   1426 Four 12 20 12   19-3525   46-7906 AU   retrograde   14274 Nov 1 01-14   8-72-28-7   9-70203   retrograde   1426 Four 12 23-53   7-28-406   minimum clong   1426 Four 12 23-53   8-28-501   1070234   retrograde   1424 Nov 10 07-50   8-78-255   8-3244   minimum clong   1426 Four 12 23-50   8-8-501   1070234   retrograde   1426 Four 12 23-50   8-8-501   1070234   retrograde   1426 Four 12 23-50   8-8-501   1070234   retrograde   1426 Four 12 23-50   8-32-40   minimum clong   1426 Nov 10 1524   2-28-29-20   minimum clong   1426 Nov 10 1524   2-28-29-20   minimum clong   1426 Nov 10 1524   2-28-32-51   107023   retrograde   1426 Nov 10 1524   2-28-32-51   retrograde   1426 Nov 10 1524				40.73399 AU	conjunction	14273 Nov. 15, 01:47	70.7157118	8°16'27
	•				•			
sin. Earth dist         14/25 May 21 30.33 bit 39.353 8.453906 AU         presquited         14/24 Heb 24 22.27 9°,27826         9°,27826         40.90 May 10 14         24.90 May 10 14         8°,279.27 8         45.94808 JU direct         14/24 May 20 00.28 8°,27 27 45 85 34 JU direct         42.90 May 10 123 7°,27819         45.94808 JU direct         42.90 May 20 00.28 8°,272.27 20 120 120 120 120 120 120 120 120 120	•			10025126	· ·			0 43 32
effect         14267 Aug 02 2125         0°23650         coposition         14274 May 19 10.14         8°27207         657205         45980 AU         copulation         14274 Aug 09 10.23         8°27206         54980 AU         45980 AU         45980 AU         4274 Aug 09 12.23         27°2726         549893 AU         45980 AU         45980 AU         4274 Aug 09 12.23         7°27819         54980 AU         45980 AU         45980 AU         4574 Aug 09 12.23         7°27819         54980 AU         45980 AU         45980 AU         4574 Aug 09 12.23         7°27819         54980 AU         45980 AU	**	•			_			
1.		•		40.73900 AU	-			0002102
Conjunction   14267 Nov 09 15:14   2°9041   10°0248						•		
	evening set	1426/ Oct 28 23:53	1°×'48'06			•		45.94893 AU
minimam elong		140(7)	20.70.410	10002141		Č		
max. Earth dist.   14267 Nov 20 08.027   2°,80.376   48.6781 AU   conjunction   14274 Nov 16 07.47   8°,87.6556   8°1140   cortograde   14268 Feb 19 1140   3°,83414   max. Earth dist.   14274 Nov 15 10.56   8°,87.6501   37.64510 AU   opposition   14268 May 13 00.51   2°,83425   10°2256   moming rise   14274 Nov 20 07.19   9°,82107   10°,82217   10°,8					evening set	14274 Nov 03 09:56	8°×'38'55	
moming rise   14267 Nov 21 08.09   2°,2°2020   minimum clong   14274 Nov 16 07.58   8°,2*503   47.8640 AU opposition   14268 Rev 19 11.01   3°,2*3475   10°,2*256   moming rise   14274 Nov 15 07.565   8°,2*503   47.8640 AU opposition   14268 May 13 10.13   2°,2*3359   46.63771 AU   crtorgrade   14275 Rev 26 06.05   0°,2*2*2714   45.8240 AU direct   14288 Aug 0 02.48   2°,2*46*17   minimum clong   14268 Nov 09 20.49   2°,2*46*17   minimum clong   14268 Nov 09 20.59   3°,2*0239   5°,0*029   minimum clong   14268 Nov 09 20.59   3°,2*0239   5°,0*029   minimum clong   14268 Nov 09 1034   3°,2*325   10°,0*023   14°,2*35 Nov 10 12.08   8°,2*35 Nov 10 12.08   8°,2*	Č						=	
Retrogade   14268 Feb   19   1140   3°,3414    max. Earth dist.   14274 Nov   15   16:56   8°,75'003   47.6450 NU opposition   14268 May   13   00:51   2°,73'425   -0'22'56   moming rise   14274 Nov   29   07:19   9°,75'104   moming rise   14275 Feb   26   00:50   0°,72'2751   4'7434   direct   14268 Aug   03   02:48   15',35'104   retrograde   14275 May   20   60:00   9°,72'7714   4'84743   direct   14275 Nov   04   12:00   9°,72'7714   4'84340 AU officed   14275 Nov   04   12:00   9°,72'7514   4'84340 AU officed   14275 Nov   04   12:00   9°,72'7514   4'84340 AU officed   14275 Nov   04   12:00   9°,72'7513   8'9,75'753   8'17'552   8'18'5				48.65781 AU	3			
opposition         14268 May 13 0.013         2°g*3*42*5         16°2276         morning rise         14278 Nov 29 07.19         9°g*3*10*1         climated direct         14268 Oat 30 0.0248         1°g*3*5*10         corposition         14275 May 21 06.00         9°g*27*14         45*14743           evening set         14268 Oct 29 00:44         2°g*3*6*17	-				· ·			
min. Earth dist.         14268 May 13 10:13         2°x33'93 b         46.3771 AU         retrograde opposition         14275 May 20 16:06         9°x27'14 s'847'13 cmpered opposition         14275 May 20 16:06         9°x27'14 s'842'14 of 18'20         8°x28'10 cmpered officed         14275 May 20 16:06         9°x27'14 s'824'04 AU direct         45.8240 AU direct         41275 May 20 16:06         9°x27'14 s'824'04 AU direct         45.8240 AU direct         9°x27'14 s'824'04 AU direct         45.8240 AU direct         4275 May 10 18:07         9°x38'35         8°x28'01           minimum elong         14268 Nov 09 20:59         3°x6'0239         9°50'29         conjunction         14275 Nov 17 13:57         9°x36'553         8°18'55           max. Earth dist.         14268 Nov 09 118:21         3°x3'19'06         minimum elong         14275 Nov 17 13:57         9°x5'553         8°18'55         18'18'55         18	-							47.86450 AU
direct         14268 Aug 03 02:48         15/3510         opposition         14275 May 20 16:00         9°,275.4         8'7473           evening set         14268 Oet 29 00:44         2°,4*617         min. Earth dist         14275 May 10 16:05         9°,2774         4'82404 U           conjunction         14268 Nov 09 20:47         3°,2*0238         9°5122         evening set         14275 Nov 01 12:08         9°,2*383 5           minimum dolog         14268 Nov 09 10:34         3°,2*0239         9°5120         minimum elong         14275 Nov 17 13:57         9°,2*5652         8°18'52           morning rise         14269 Nov 21 18:21         3°,4*1906         minimum elong         14275 Nov 17 13:57         9°,2*5555         8°1753           opposition         14269 May 14 10:60         3°,3*32'81 00*1002         morning rise         14275 Nov 17 13:70         9°,2*5555         8°1753           direct         14269 May 14 17:08         3°,3*32'83         10°,1002         morning rise         14275 Nov 17 13:70         9°,2*5555         8°1755           direct         14269 May 14 10:62         3°,3*28*3         10°,002         min. Earth dist.         14276 Nay 20 22:00         10°,2*28'01 8*33'08           evering set         14269 Nov 10 10:24         4°,2*0114         9°,8*28'12         4*276 Nay 20 22:	**	•	2° <b>∡</b> ³34'25	-10°22'56	_			
Perening set   14268 Oct 29 00.44   2°.24'617   min. Earth dist.   14275 May 21 0.605   8°.27'214   45.82404 AU officet   14275 Aug 10 18.07   8°.27'28'01   14268 Nov 09 20.47   3°.20'238   9°.51'22   enemis set   14275 Nov 10 12.08   9°.27'814   14275 Nov 10 12.08   9°.27'815   14268 Nov 09 1034   3°.20'203   48.55476 AU   conjunction   14275 Nov 17 13.57   9°.27'555   8°.17'55   14269 Nov 11 18.21   3°.27'190   min.mum clong   14275 Nov 17 14.08   9°.27'555   47.73923 AU opposition   14269 May 14 06.20   3°.27'327   45.3111 AU   retrograde   14276 Nov 19 13.41   10°.21'31   3°.27'327   45.3111 AU   retrograde   14276 Nov 19 13.41   10°.27'317   45.69'581 AU   14269 Aug 14 11.08   3°.27'327   45.3111 AU   retrograde   14276 Nov 19 13.41   10°.27'210   45.69'581 AU   14269 Aug 14 11.08   3°.27'327   45.3111 AU   retrograde   14276 Nov 19 13.41   10°.27'210   45.69'581 AU   14269 Aug 14 11.08   3°.27'327   45.3111 AU   retrograde   14276 Nov 19 13.41   10°.27'210   45.69'581 AU   14269 Aug 14 12.03   4°.27'313	min. Earth dist.	14268 May 13 10:13		46.63771 AU	retrograde	14275 Feb 26 06:05	10° <b>∡</b> 28'17	
conjunction         14268 Nov 09 20.47         3°×20'238         9°F122         evening set         14275 Nov 04 12.08         9°×278'35'	direct	14268 Aug 03 02:48	1° <b>∡</b> ′35′10		opposition	•	9° <b>∡</b> ¹27'54	-8°47'43
conjunction         14268 Nov 09 20:47         3°x0'238 9°51'22         evening set         14275 Nov 04 12:08         9°x3'83'5	evening set	14268 Oct 29 00:44	2° <b>∡</b> ¹46'17		min. Earth dist.	14275 May 21 06:05		45.82404 AU
minimum clong         14268 Nov 09 20.59         3° \$0239         9° 50'29           max. Earth dist.         14268 Nov 09 10.34         3° \$0'203         48,5846 AU         conjunction         14275 Nov 17 13.57         9° \$6'563         8° 18'52           morning rise         14268 Nov 21 18.21         3° \$7'80'58         48'33'51         max. Earth dist.         14275 Nov 16 21.43         9° \$6'553         8'1755           retograde         14269 May 14 10'620         3° \$3'227'         46'5111 AU         morning rise         14275 Nov 10 21.43         9° \$3'555         47.73923 AU           direct         14269 Aug 41 17'08         3° \$3227'         46'5111 AU         morning rise         14276 May 20 22:00         10° \$2711'         45'3308           evening set         14269 Oct 30 02:00         3° \$4'43'         60' \$7'15'         60' \$210'         42' \$6'82'         42' \$6'82'         42' \$6'82'         48' \$3'38'         42' \$7'15'         60' \$2'15'         45' \$8'38'         42' \$7'15'         42' \$7'15'         42' \$7'15'         42' \$7'15'         42' \$7'15'         42' \$7'15'         42' \$7'15'         42' \$7'15'         42' \$7'15'         42' \$7'15'         42' \$7'15'         42' \$7'15'         42' \$7'15'         42' \$7'15'         42' \$7'15'         42' \$7'15'         42' \$7'15'         42' \$7'15'         4					direct	14275 Aug 10 18:07	8° <b>≯</b> 28'01	
max. Earth dist.         14268 Nov 9 10:34         3°×02'03         48.55476 AU         conjunction         14275 Nov 17 13:57         9°×35652         -8°18'52           moming rise         14268 Nov 21 18:21         3°×19'96         minimum elong         14275 Nov 17 14:08         9°×35653         8'17'55           ctrograde         14269 May 14 06:20         3°×32'58         10°10'02         morning rise         14276 Nov 30 17:37         10°×715'17           nin. Earth dist.         14269 May 14 17:08         3°×32'27         4553111 AU         retrograde         14276 May 21 14:00         10°×27:16         45308           evening set         14269 Oct 30 02:00         3°×34'43         min. Earth dist.         14276 May 21 14:00         10°×27:16         45-30'18           conjunction         14269 Nov 11 02:31         4°×01'15         9°38'50         evening set         14276 Nov 04 14:30         10°×28'21         45-08'81 AU           minimum elong         14269 Nov 11 02:44         4°×01'15         9°3750         conjunction         14276 Nov 17 02:22         10°×3751'1         8'03'83           max. Earth dist.         14269 Nov 10 15:20         4°×31'35         4°×1759         conjunction         14276 Nov 17 20:22         10°×3751'1         8'03'46           erbograde         14270 Nov 10 15:23 <td>conjunction</td> <td>14268 Nov 09 20:47</td> <td>3°<b>₹</b>02'38</td> <td>-9°51'22</td> <td>evening set</td> <td>14275 Nov 04 12:08</td> <td>9°<b>∡</b>³38'35</td> <td></td>	conjunction	14268 Nov 09 20:47	3° <b>₹</b> 02'38	-9°51'22	evening set	14275 Nov 04 12:08	9° <b>∡</b> ³38'35	
moming rise         14268 Nov 21 18:21         3° Å1906         minimum elong         14275 Nov 17 14:08         9° Å563         8° 1755           retorgade         14269 Feb 19 15:58         4° Å3251         max. Earth dist.         14275 Nov 16 21:43         9° Å5555         47.73923 AU           opposition         14269 May 14 10:20         3° Å32328         10° 1002         moming rise         14276 May 20 22:06         10° Æ320         10° Æ300           evening set         14269 Oct 30 02:00         2° Å3317         opposition         14276 May 20 22:00         10° Æ320         10° Å300           conjunction         14269 Nov 11 02:11         4° Å0114         9° 8850         evening set         14276 Nov 0         14:30         10° Æ3837           minimum elong         14269 Nov 10 10:21         4° Æ0115         9° 8757         minimum elong         14276 Nov 17 20:22         10° Æ5711         8°0346           minimum elong         14269 Nov 10 15:20         4° Æ01035         84.84756 AU         conjunction         14276 Nov 17 20:22         10° Æ5711         8°0346           moring rise         14269 Nov 23 04:37         4° Æ3138         9° £315         morining rise         14276 Nov 17 20:22         10° Æ5711         8°0346           ertertograde         14270 May 15 11:36         4° Æ3138<	minimum elong	14268 Nov 09 20:59	3° <b>∡</b> °02'39	9°50'29				
Petrograde   14269 Feb 19 15.58   4\$\bar{\text{\$\sigma\$}}\$   325\bar{\text{\$\sigma\$}}\$   465\bar{\text{\$\sigma\$}}\$   465\bar{\text{\$\sigma\$}	max. Earth dist.	14268 Nov 09 10:34	3° <b>х</b> 02′03	48.55476 AU	conjunction	14275 Nov 17 13:57	9° <b>∡</b> 56'52	-8°18'52
opposition         14269 May 14 10620         3° x³ 3228   -10° 1002         moming rise         14275 Nov 30 17:37         10° x¹ 15′ 17         min. Earth dist.         14269 May 14 17:08         3° x³ 3227   46.3111 AU         retrograde         14276 Feb 27 16:00         11° x² 2829         46.3111 AU         retrograde         14276 May 20 2:00         10° x² 2801   8° 3308         evening set         14269 Oct 30 02:00         3° x² 44′3         min. Earth dist.         14276 May 20 12:12         9° x² 2801   8° 3308         evening set         14276 May 20 12:12         9° x² 2801   8° 3308         avening set         14269 Nov 11 02:14         4° x² 01′15         9° 3757         min. Earth dist.         14269 Nov 10 15:20         4° x² 01′15         9° 3757         max. Earth dist.         14276 Nov 17 20:32         10° x² 57′11         8° 04′44           morning rise         14269 Nov 23 0437         4° x² 11′38         9° 55′55         morning rise         14276 Nov 17 20:32         10° x² 57′11         8° 04′44           etrograde         14270 Aug 15 11:36         4° x² 13′18         9° 55′55         morning rise         14276 Nov 17 0±11         10° x² 55′11         8° 04′44           direct         14270 Aug 16 11:33         4° x² 31′18         9° 55′55         morning rise         14276 Dec 01 03:49         12° x² 15′51         10° x² 15′51         10° x² 15′51         10° x²	morning rise	14268 Nov 21 18:21	3° <b>х</b> 19′06		minimum elong	14275 Nov 17 14:08	9° <b>∡</b> 56'53	8°17'55
min. Earth dist.   14269 May 14 17:08   3°x3227   46.53111 AU   retrograde   14276 Feb 27 16:00   11°x72829   -8°3308   14269 Oct 30 02:00   3°x74436   -8°3308   min. Earth dist.   14276 May 20 22:06   10°x72716   45.69581 AU   14276 May 20 12:12   9°x72801   -8°3308   14276 May 10 12:23   3°x7241   14276 May 10 12:12   9°x72801   -8°0444   14276 May 10 12:12   4°x72015   9°3757   -8°0444   14276 May 10 12:12   4°x72015   4°x7175   -8°0454   14276 May 17 12:33   10°x7571   8°0346   14276 May 15 11:36   4°x73138   9°6555   min. Earth dist.   14276 May 15 11:36   4°x73138   9°6555   min. Earth dist.   14270 May 15 11:36   4°x73138   9°6555   min. Earth dist.   14270 May 15 11:36   4°x73138   9°6555   min. Earth dist.   14270 May 15 11:36   4°x73138   9°6555   min. Earth dist.   14270 May 15 12:36   4°x73107   46.42070 AU   14277 May 20 04:11   11°x72829   8°1820   18747 May 10 12:13   11°x72829   8°1820   18747 May 10 12:13   18°x7281   11°x72829   8°1820   11°x72829   8°1820   11°x72829   8°1820   11°x72829   8°1820   11°x72829   11°x	retrograde	14269 Feb 19 15:58	4° <b>∡</b> ³32'51		max. Earth dist.	14275 Nov 16 21:43	9° <b>∡</b> 755'55	47.73923 AU
direct         14269 Aug 04 11:16         2°x³333°         opposition         14267 May 21 14:00         10°x²281         8°3308           evening set         14269 Oct 30 02:00         3°x²44'36         min. Earth dist.         14276 May 21 14:00         10°x²281         45.6981 AU           conjunction         14269 Nov 11 02:31         4°x²01'14         9°38'50         evening set         14276 Nov 17 10:21         9°x²2803         -           minimum clong         14269 Nov 10 10:24         4°x²01'15         9°37'57         werening set         14276 Nov 17 20:22         10°x²5'10         -8°04'44           morning rise         14269 Nov 23 04:37         4°x²1'15         9°37'55         minimum clong         14276 Nov 17 20:33         10°x²5'10         8°04'44           retrograde         14270 Feb 21 00:06         5°x³3'136         max. Earth dist.         14276 Nov 17 04:11         10°x²5'61         4°04'03'10           min. Earth dist         14270 Nov 1 04:31         4°x³3'13         9°56'55         morning rise         14276 Nov 10 4:11         10°x²5'61         4°0.03'50         4°2.03'13         4°2.03'13         4°2.00'10         4°2.00'10         4°2.00'10         4°2.00'10         4°2.00'10         4°2.00'10         4°2.00'10         4°2.00'10         4°2.00'10         4°2.00'10         4°2.00'10	opposition	14269 May 14 06:20	3° <b>∡</b> ³32'58	-10°10'02	morning rise	14275 Nov 30 17:37	10° <b>∡</b> 15'17	
evening set         14269 Oct 30 02:00         3° X44'36         min. Earth dist. direct         14276 May 21 14:00         10° X27'16         45.69881 MD direct         4276 May 10 21:12         9° X2803         45.69881 MD direct         14276 Mug 10 21:12         9° X2803         45.69881 MD direct         4276 Mug 10 21:12         9° X2803         45.69881 MD direct         4276 Mug 10 21:12         9° X2803         45.69881 MD direct         4276 Mug 10 21:12         9° X2803         45.69881 MD direct         4276 Mug 10 21:12         9° X2803         45.69881 MD direct         45.69881 MD direct         4276 Mug 10 21:12         9° X2803         45.69881 MD direct         4276 Mug 10 21:12         9° X2803         45.69881 MD direct         45.69	min. Earth dist.	14269 May 14 17:08	3° <b>∡</b> ³32′27	46.53111 AU	retrograde	14276 Feb 27 16:00	11° <b>∡</b> ¹28'29	
conjunction         14269 Nov 11 02:31         4°₹01'14 -9°38'50         evening set         14276 Nov 04 14:30         10°₹38'37           max. Earth dist.         14269 Nov 11 02:44         4°₹01'15 9°37'57         evening set         14276 Nov 04 14:30         10°₹38'37           max. Earth dist.         14269 Nov 10 15:20         4°₹00'35 48.44756 AU         conjunction         14276 Nov 17 20:22         10°₹57'10 8°0'4'44           morning rise         14269 Nov 23 04:37         4°₹17'59         minimum elong         14276 Nov 17 20:22         10°₹57'11 8°0'3'46           opposition         14270 May 15 11:36         4°₹31'38 9°5'6'55         morning rise         14276 Nov 17 04:11         10°₹5'511 8'0'3'46           min. Earth dist.         14270 May 15 12:36         4°₹31'38 9°5'6'55         morning rise         14276 Dec 01 03:49         11°₹1'51'5           min. Earth dist.         14270 Aug 05 15:32         3°₹32'11         4°4270 AU         retrograde         14277 Feb 27 23:43         12°₹2'90'2         -8°18'20           cevening set         14270 Nov 12 08:13         4°₹39'138         9°26'05         evening set         14277 May 22 00:22         11°₹37'49         4°76'95 A'8'12'0           max. Earth dist.         14270 Nov 12 08:24         4°₹59'59         9°25'11         max. Earth dist.         1427'10 Nov 18 08:28	direct	14269 Aug 04 11:16	2° <b>∡</b> ³33'37		opposition	14276 May 20 22:06	10° <b>≯</b> 28'01	-8°33'08
conjunction         14269 Nov 11 02:31         4° ×01'14 09'38'50         evening set         14276 Nov 04 14:30         10° ×38'37           minimum elong         14269 Nov 11 01:224         4° ×01'15 09'37'57         conjunction         14276 Nov 17 20:22         10° ×57'10 -8°04'44           max. Earth dist.         14269 Nov 23 04:37         4° ×07'15 -8'04'45         minimum elong         14276 Nov 17 20:33         10° ×57'11 8°03'46           retrograde         14270 May 15 11:36         4° ×31'38 9°56'55         morning rise         14276 Nov 17 04:11 10° ×56'13 47.6103*AU         4° ×31'18 142'14 10° ×35'14 10° ×35'14 10° ×56'1	evening set	14269 Oct 30 02:00	3° <b>∡</b> ⁴44'36		min. Earth dist.	14276 May 21 14:00	10° <b>∡</b> 27'16	45.69581 AU
minimum elong         14269 Nov 11 02:44         4° ×01'15         9°37'57           max         Earth dist.         14269 Nov 10 15:20         4° ×00'35         48.44756 AU         conjunction         14276 Nov 17 20:22         10° ×75'11         8°04'44           morning rise         14269 Nov 23 04:37         4° ×3'13'8         max         Earth dist.         14276 Nov 17 04:11         10° ×75'11         8°03'43           opposition         14270 May 15 11:36         4° ×3'13'8         -9°56'55         morning rise         14276 Dec 01 03:49         11° ×75'51         3° √13'13           min. Earth dist.         14270 May 15 22:24         4° ×3'10'7         46.42070 AU         retrograde         14277 Feb 27 23:43         12° ×2'9'9'2         4° 16'8'5           direct         14270 Aug 05 15:32         3° ×3'2'11         opposition         14277 May 22 0:22         11° ×2'8'29         8° 18'20           evening set         14270 Nov 12 08:13         4° ×3'95'8         9° 26'05         evening set         14277 Nov 05 17:26         11° ×2'3'90         11° ×2'3'90           conjunction         14270 Nov 12 08:13         4° ×3'95'8         9° 26'05         evening set         14277 Nov 18 08:28         11° ×3'5'90         11° ×3'5'90           max. Earth dist.         14270 Nov 12 08:13         4° ×3'95'8 </td <td></td> <td></td> <td></td> <td></td> <td>direct</td> <td>14276 Aug 10 21:21</td> <td>9°<b>∡</b>28'03</td> <td></td>					direct	14276 Aug 10 21:21	9° <b>∡</b> 28'03	
max. Earth dist.         14269 Nov 10 15:20         4°x0035         48.4476 AU         conjunction         14276 Nov 17 20:22         10°x5710         8°03'46           retrograde         14269 Nov 23 04:37         4°x1759         max. Earth dist.         14276 Nov 17 04:11         10°x5711         8°03'46           opposition         14270 May 15 11:36         4°x31'38         8°956'55         morning rise         14276 Dec 01 03:49         11°x15'15         11°x15'15           min. Earth dist.         14270 May 15 11:36         4°x31'37         46.42070 AU         retrograde         14277 Feb 27 23:43         12°x29'02         10°3'15'15         11°x27'15'15         11°x27'15'15         8°18'20         11°x27'15'15         11°x27'15'15         11°x27'15'15         8°18'20         8°18'20         8°18'20         11°x27'15'15         8°18'20	conjunction	14269 Nov 11 02:31	4° <b>∡</b> 01'14	-9°38'50	evening set	14276 Nov 04 14:30	10° <b>∡</b> ³38'37	
morning rise         14269 Nov 23 04:37         4°\$1759         minimum elong         14276 Nov 17 02:33         10°\$5711         8°0346           retrograde         14270 Feb 21 00:06         5°\$3136         max. Earth dist.         14276 Nov 17 04:11         10°\$5613         47.61035 AU           opposition         14270 May 15 11:36         4°\$3138 -9°\$655         morning rise         14276 Dec 01 03:49         11°\$71551         47.61035 AU           direct         14270 Aug 05 15:32         3°\$3211         opposition         14277 May 22 04:11         11°\$27292         8°1820           evening set         14270 Oct 31 03:18         4°\$\$4303         min. Earth dist.         14277 May 22 00:22         11°\$\$2743         45.56347 AU           conjunction         14270 Nov 12 08:13         4°\$\$9598 -9°2605         evening set         14277 Nov 05 17:26         11°\$\$3900         11°\$\$3900           max. Earth dist.         14270 Nov 11 19:38         4°\$\$9594 48:33665 AU         max. Earth dist.         14277 Nov 18 08:28         11°\$\$7504 47.47695 AU           morning rise         14270 Nov 24 14:52         5°\$\$1700         conjunction         14277 Nov 19 03:66         11°\$\$7504 47.47695 AU           opposition         14271 May 16 17:12         5°\$\$30326 -9°4334         morning rise         14277 Nov 19 03:06         11°\$\$7506 77.4925	minimum elong	14269 Nov 11 02:44	4° <b>∡</b> 01'15	9°37'57				
retrograde 14270 Feb 21 00:06 5° x³31'36 max. Earth dist. 14276 Nov 17 04:11 10° x³56'13 47.61035 AU opposition 14270 May 15 11:36 4° x³31'38 9°56'55 morning rise 14276 Dec 01 03:49 11° x³15'51 min. Earth dist. 14270 May 15 22:24 4° x³31'07 46.42070 AU retrograde 14277 Feb 27 23:43 12° x³29'02 4° x³20'02 4° x³31'07 46.420'00 AU retrograde 14277 May 22 02:24 11 11° x³28'29 8° 18'20 apposition 14270 AU oct 31 03:18 4° x³43'03 min. Earth dist. 14277 May 22 02:25 11° x³27'43 45.56347 AU direct 14277 May 22 00:25 11° x³27'43 45.56347 AU direct 14277 May 22 00:25 11° x³27'43 45.56347 AU direct 14277 May 12 00:55 11° x³39'00 4° x³39'00 4	max. Earth dist.	14269 Nov 10 15:20	4° <b>∡</b> 00'35	48.44756 AU	conjunction	14276 Nov 17 20:22	10° <b>₹</b> 57'10	-8°04'44
opposition         14270 May 15 11:36         4°x³1'38 -9°56'55         moming rise         14276 Dec 01 03:49         11°x³15'51         4°x³2'0'0         46.42070 AU         retrograde         14277 Feb 27 23:43         12°x²2'9'02         4°x³2'0'0         4°x³3'03         retrograde         14277 May 22 04:11         11°x²28'29         -8°18'20           evening set         14270 Aug 05 15:32         3°x³3'2'1         opposition         14277 May 22 04:11         11°x²28'29         -8°18'20           evening set         14270 Nov 12 08:13         4°x³3'0'3         evening set         14277 Nay 22 00:25         11°x²3'9'0         11°x³3'9'0           minimum elong         14270 Nov 12 08:13         4°x³5'9'58         9°26'05         evening set         14277 Nov 18 08:28         11°x³3'9'0         4°.476'95 AU           max. Earth dist.         14270 Nov 11 19:38         4°x³5'9'14         48.33665 AU         14277 Nov 18 08:28         11°x³5'54         47.47695 AU           morning rise         14271 Feb 22 08:46         6°x³3'03'0         evening set         14277 Nov 19 03:06         11°x³5'57         7°9'022           evening set         14271 May 16 17:12         5°x³0'26' 9°43'34         morning rise         14277 Nov 19 03:06         11°x³5'50         7°9'25' 19' 20' 20' 20' 20' 20' 20' 20' 20' 20' 20	morning rise	14269 Nov 23 04:37	4° <b>∡</b> 17'59		minimum elong	14276 Nov 17 20:33	10° <b>∡</b> 757'11	8°03'46
min. Earth dist.         14270 May 15 2:24         4°x31'07         46.42070 AU         retrograde         14277 Feb 27 23:43         12°x29'02         direct           evening set         14270 Oct 31 03:18         4°x33'03         min. Earth dist.         14277 May 22 04:11         11°x28'29         -8°18'20           conjunction         14270 Oct 31 03:18         4°x34'30         min. Earth dist.         14277 May 22 00:22         11°x27'43         45.6347 AU           conjunction         14270 Nov 12 08:13         4°x59'58         -9°26'05         evening set         14277 Nov 18 08:28         11°x39'0         -           minimum elong         14270 Nov 12 08:24         4°x59'59         9°25'11         max. Earth dist.         14277 Nov 18 08:28         11°x35'44         47.47695 AU           morning rise         14270 Nov 11 19:38         4°x59'14         48.33665 AU         conjunction         14277 Nov 19 02:56         11°x35'49         -7°50'22           retrograde         14271 May 16 17:12         5°x30'26         -9°43'34         morning rise         14277 Nov 19 03:06         11°x35'79         7°50'22           retrograde         14271 May 16 17:12         5°x30'26         -9°43'34         retrograde         14277 Nov 19 03:06         11°x35'750         7°49'25           direct         1	retrograde	14270 Feb 21 00:06	5° <b>∡</b> ³31'36		max. Earth dist.	14276 Nov 17 04:11	10° <b>∡</b> 56′13	47.61035 AU
min. Earth dist.         14270 May 15 2:24         4°x31'07         46.42070 AU         retrograde         14277 Feb 27 23:43         12°x29'02         direct           evening set         14270 Oct 31 03:18         4°x33'03         min. Earth dist.         14277 May 22 04:11         11°x28'29         -8°18'20           conjunction         14270 Oct 31 03:18         4°x34'30         min. Earth dist.         14277 May 22 00:22         11°x27'43         45.6347 AU           conjunction         14270 Nov 12 08:13         4°x59'58         -9°26'05         evening set         14277 Nov 18 08:28         11°x39'0         -           minimum elong         14270 Nov 12 08:24         4°x59'59         9°25'11         max. Earth dist.         14277 Nov 18 08:28         11°x35'44         47.47695 AU           morning rise         14270 Nov 11 19:38         4°x59'14         48.33665 AU         conjunction         14277 Nov 19 02:56         11°x35'49         -7°50'22           retrograde         14271 May 16 17:12         5°x30'26         -9°43'34         morning rise         14277 Nov 19 03:06         11°x35'79         7°50'22           retrograde         14271 May 16 17:12         5°x30'26         -9°43'34         retrograde         14277 Nov 19 03:06         11°x35'750         7°49'25           direct         1	opposition	14270 May 15 11:36	4° <b>∡</b> ³31'38	-9°56'55	morning rise	14276 Dec 01 03:49	11° <b>√</b> 15'51	
direct         14270 Aug 05 15:32         3° x³32'11         opposition         14277 May 22 04:11         11° x²28'29 -8° 18'20           evening set         14270 Oct 31 03:18         4° x³43'03         min. Earth dist.         14277 May 22 0:22         11° x²27'43         45.56347 AU           conjunction         14270 Nov 12 08:13         4° x³59'58         -9° 26'05         evening set         14277 Nov 05 17:26         11° x³28'90         -9° 26'05           minimum elong         14270 Nov 12 08:24         4° x³59'58         -9° 26'05         evening set         14277 Nov 05 17:26         11° x³ 39'00         -9° 25'11           max. Earth dist.         14270 Nov 11 19:38         4° x³59'14         48:33665 AU         -9° 25'11         max. Earth dist.         14277 Nov 19 02:56         11° x³ 5'749         -7° 50'22           retrograde         14271 Nov 10 11 19:38         4° x³ 30'30         minimum elong         14277 Nov 19 03:06         11° x³ 5'749         -7° 50'22           retrograde         14271 May 16 17:12         5° x³ 30'26         -9° 43'34         morning rise         14277 Nov 19 03:06         11° x³ 5'749         -7° 50'22           direct         14271 May 16 17:12         5° x³ 30'26         -9° 43'34         morning rise         14278 May 21 01:02         12° x³ 29'17         -8° 03'19	min. Earth dist.	14270 May 15 22:24	4° <b>∡</b> ³31'07	46.42070 AU	-	14277 Feb 27 23:43	12° <b>₹</b> 29'02	
evening set   14270 Oct 31 03:18   4°\$\frac{\text{x}}{\text{4}}303\$   min. Earth dist.   14277 May 22 0:22   11°\$\text{x}\$2743   45.56347 AU direct   14277 Aug 12 00:52   10°\$\text{x}\$2826   conjunction   14270 Nov 12 08:13   4°\$\text{x}\$5958   9°26'05   evening set   14277 Nov 05 17:26   11°\$\text{x}\$39'00   min. Earth dist.   14270 Nov 12 08:24   4°\$\text{x}\$5959   9°25'11   max. Earth dist.   14277 Nov 18 08:28   11°\$\text{x}\$50'44   47.47695 AU max. Earth dist.   14270 Nov 12 08:24   4°\$\text{x}\$59'14   48.33665 AU morning rise   14270 Nov 24 14:55   5°\$\text{x}\$17'00   min. Earth dist.   14277 Nov 19 02:56   11°\$\text{x}\$57'49   -7°50'22   retrograde   14271 Feb 22 08:46   6°\$\text{x}\$30'26   -9°43'34   morning rise   14277 Nov 19 03:06   11°\$\text{x}\$57'50   7°49'25   opposition   14271 May 16 17:12   5°\$\text{x}\$30'26   -9°43'34   morning rise   14277 May 01 07:22   13°\$\text{x}\$29'56   direct   14271 Aug 06 17:46   4°\$\text{x}\$30'54   46.30695 AU   retrograde   14278 May 01 07:22   13°\$\text{x}\$29'57   46.30695 AU   retrograde   14278 May 23 10:20   12°\$\text{x}\$29'17   -8°03'19   evening set   14271 Nov 13 13:56   5°\$\text{x}\$58'53   9°12'12   min. Earth dist.   14278 May 24 04:05   12°\$\text{x}\$39'41     evening set   14271 Nov 13 13:56   5°\$\text{x}\$58'53   9°12'12   max. Earth dist.   14278 Nov 06 02:25   12°\$\text{x}\$39'41     evening rise   14271 Nov 13 14:08   5°\$\text{x}\$58'53   9°12'12   max. Earth dist.   14278 Nov 0 09:47   12°\$\text{x}\$58'46   -7°35'49   morning rise   14271 Nov 13 01:37   5°\$\text{x}\$58'09   48.22271 AU   conjunction   14278 Nov 0 09:47   12°\$\text{x}\$58'46   -7°35'49   opposition   14272 May 16 22:48   6°\$\text{x}\$29'25   9°29'58   morning rise   14278 Nov 19 14:39   12°\$\text{x}\$58'47   7°34'50   opposition   14272 May 16 22:48   6°\$\text{x}\$29'25   9°29'58   morning rise   14278 Nov 10 14:49   13°\$\text{x}\$108   12°\$\text{x}\$39'18   opposition   14272 May 16 120:40   13°\$\text{x}\$108   09°\$\text{x}\$29'35   opposition   14279 May 24 16:49   13°\$\text{x}\$108   09°\$\text{x}	direct	14270 Aug 05 15:32	3° <b>∡</b> ³32'11		-	14277 May 22 04:11	11° <b>∡</b> °28'29	-8°18'20
Minimum elong   14270 Nov 12 08:13   4°\$\times 59'\$\times 8 - 9°26'05   evening set   14277 Nov 05 17:26   11°\$\times 39'00   evening set   14277 Nov 18 08:28   11°\$\times 56'\times 4   47.47695 AU   evening set   14277 Nov 18 08:28   11°\$\times 56'\times 4   47.47695 AU   evening set   14270 Nov 18 08:28   11°\$\times 56'\times 4   47.47695 AU   evening set   14270 Nov 18 08:28   11°\$\times 56'\times 4   47.47695 AU   evening set   14270 Nov 19 19:38   4°\$\times 59'\times 4   48.33665 AU   evening set   14271 Nov 19 03:06   11°\$\times 57'\times   7°\$0'22   retrograde   14271 Feb 22 08:46   6°\$\times 30'30   minimum elong   14277 Nov 19 03:06   11°\$\times 57'\times   7°49'25   opposition   14271 May 16 17:12   5°\$\times 30'26   -9°43'34   morning rise   14270 Dec 02 14:22   12°\$\times 16'\times 57'\times   7°49'25   direct   14271 Aug 06 17:46   4°\$\times 30'54   46.30695 AU   retrograde   14278 May 21 01:02   12°\$\times 29'17   8°03'19   evening set   14271 Nov 10 04:33   5°\$\times 58'\times 19'* 99'13'07   evening set   14278 May 24 04:05   12°\$\times 29'29'17   8°03'19   evening set   14271 Nov 13 13:56   5°\$\times 58'85   9°12'12   evening set   14271 Nov 13 13:56   5°\$\times 58'85   9°12'12   evening set   14271 Nov 13 01:37   5°\$\times 58'89   48.22271 AU   evening set   14278 Nov 20 09:47   12°\$\times 58'46   -7°35'49   evening rise   14271 Nov 26 00:47   6°\$\times 19'10   8.22271 AU   evening set   14278 Nov 10 14:39   12°\$\times 58'54   7°34'50   evening rise   14278 Nov 10 14:39   12°\$\times 58'54   7°34'50   evening rise   14278 Nov 10 14:39   12°\$\times 58'54'4   7°34'50   evening rise   14278 Nov 10 14:39   12°\$\times 58'46   -7°35'49   evening rise   14278 Nov 10 14:39   12°\$\times 58'46   -7°35'49   evening rise   14278 Nov 10 14:39   12°\$\times 58'46   -7°35'49   evening rise   14278 Nov 10 14:39   12°\$\times 58'46   -7°35'49   evening rise   14278 Nov 10 14:39   12°\$\times 58'46   -7°35'49   evening rise   14278 Nov 10 14:39   12°\$\times 58'46   -7°35'49   evening rise   14278 Nov 10 14:39   1	evening set	-	4° <b>х</b> 43′03			•		
conjunction         14270 Nov 12 08:13         4°\$5'58\$         -9°26'05         evening set         14277 Nov 05 17:26         11°\$\$\frac{7}{3}\$'900\$           minimum elong         14270 Nov 12 08:24         4°\$\frac{7}{5}\$'5'9\$         9°25'11         max. Earth dist.         14277 Nov 18 08:28         11°\$\frac{7}{5}\$'6'44         47.47695 AU           max. Earth dist.         14270 Nov 11 19:38         4°\$\frac{7}{5}\$'9!4         48.33665 AU         conjunction         14277 Nov 19 02:56         11°\$\frac{7}{5}\$'749         -7°50'22           retrograde         14271 Feb 22 08:46         6°\$\frac{7}{3}\$'30'30         minimum elong         14277 Nov 19 03:06         11°\$\frac{7}{5}\$'5'5         7°49'25           opposition         14271 May 16 17:12         5°\$\frac{7}{3}\$'30'2         -9°43'34         morning rise         14277 Dec 02 14:22         12°\$\frac{7}{3}\$'16'46           direct         14271 Aug 06 17:46         5°\$\frac{7}{2}\$'29'15         46.30695 AU         retrograde         14278 Mar 01 07:22         13°\$\frac{7}{2}\$'29'15         -8°03'19           evening set         14271 Nov 01 04:33         5°\$\frac{7}{3}\$'14'4         min. Earth dist.         14278 Aug 23 10:20         12°\$\frac{7}{2}\$'29'17         -8°03'19           conjunction         14271 Nov 13 13:56         5°\$\frac{7}{3}\$'5'5         9°13'07         evening set         14278 Nov 06 20	C					•		
minimum elong max. Earth dist. 14270 Nov 12 08:24  4° ₹59'59 9°25'11  max. Earth dist. 14277 Nov 18 08:28 11° ₹56'44 47.47695 AU max. Earth dist. 14270 Nov 11 19:38  4° ₹59'14 48.33665 AU morning rise 14270 Nov 24 14:52 5° ₹17'00  conjunction 14277 Nov 19 02:56 11° ₹57'49 -7°50'22 retrograde 14271 Feb 22 08:46 6° ₹30'30  minimum elong 14277 Nov 19 03:06 11° ₹57'50 7°49'25 opposition 14271 May 16 17:12 5° ₹30'26 -9°43'34  morning rise 14277 Dec 02 14:22 12° ₹16'46 min. Earth dist. 14271 May 17 05:44 5° ₹29'51 46.30695 AU retrograde 14278 Mar 01 07:22 13° ₹29'56 direct 14271 Nov 01 04:33 5° ₹14'40  min. Earth dist. 14278 May 23 10:20 12° ₹28'27 45.42642 AU direct 14278 Aug 13 05:49 11° ₹29'07 conjunction 14271 Nov 13 13:56 5° ₹58'52 -9°13'07 evening set 14278 Nov 06 20:25 12° ₹39'41  minimum elong 14271 Nov 13 14:08 5° ₹58'53 9°12'12  max. Earth dist. 14271 Nov 13 01:37 5° ₹58'09 48.22271 AU conjunction 14278 Nov 20 09:47 12° ₹58'46 -7°35'49 morning rise 14271 Nov 26 00:47 6° ₹16'11  minimum elong 14278 Nov 19 14:39 12° ₹58'46 -7°35'49 retrograde 14272 Feb 23 13:01 7° ₹29'35  max. Earth dist. 14278 Nov 19 14:39 12° ₹58'47 7°34'50 retrograde 14272 May 16 22:48 6° ₹29'26 -9°29'58  morning rise 14278 Nov 19 14:39 12° ₹57'38 47.33847 AU opposition 14272 May 16 22:48 6° ₹29'26 -9°29'58  morning rise 14279 Mar 02 10:46 14° ₹31'08 direct 14272 Aug 06 23:27 5° ₹29'48  fol9026 AU retrograde 14279 Mar 02 10:46 14° ₹31'08 direct 14272 Aug 06 23:27 5° ₹29'48  fol9026 AU retrograde 14279 Mar 02 10:46 14° ₹31'08 direct 14272 Aug 06 23:27 5° ₹29'48 fol9026 AU retrograde 14279 Mar 02 10:46 14° ₹31'08 direct 14272 Aug 06 23:27 5° ₹29'48 fol9026 AU retrograde 14279 Mar 02 10:46 14° ₹31'08 fol9026 AU direct 14279 Mar 02 10:46 14° ₹31'08 fol9026 AU direct 14272 Aug 06 23:27 5° ₹29'48 fol9026 AU retrograde 14279 Mar 02 10:46 14° ₹31'08 fol9026 AU direct 14272 Aug 06 23:27 5° ₹29'48 fol9026 AU retrograde 14279 Mar 02 10:46 14° ₹31'08 fol9026 AU direct 14272 Aug 06 23:27 5° ₹29'48 fol9026 AU feb 00 poposition 14279 May 24 16:49 13° ₹3	conjunction	14270 Nov 12 08:13	4° <b>₹</b> 759'58	-9°26'05	evening set	•	11° <b>₹</b> ³39'00	
max. Earth dist.         14270 Nov 11 19:38         4° x² 59'14         48.33665 AU         conjunction         14277 Nov 19 02:56         11° x² 57'49         -7° 50'22           retrograde         14271 Feb 22 08:46         6° x³ 30'30         minimum elong         14277 Nov 19 03:06         11° x² 57'50         7° 49'25           opposition         14271 May 16 17:12         5° x³ 30'26 -9° 43'34         morning rise         14277 Dec 02 14:22         12° x³ 16'46         12° x³ 16'46           min. Earth dist.         14271 May 17 05:44         5° x³ 29'51         46.30695 AU         retrograde         14278 May 23 10:20         12° x² 29'17         -8° 03'19           evening set         14271 Nov 01 04:33         5° x³ 41'40         opposition         14278 May 24 04:05         12° x² 28'27         45.42642 AU           conjunction         14271 Nov 13 13:56         5° x³ 58'52         -9° 13'07         evening set         14278 Nov 06 20:25         12° x³ 29'14         45.42642 AU           minimum elong         14271 Nov 13 14:08         5° x³ 58'53         9° 12'12         4271 Nov 13 14:08         5° x³ 58'53         9° 12'12         4271 Nov 13 01:37         5° x³ 58'09         48.22271 AU         conjunction         14278 Nov 20 09:47         12° x³ 58'46         -7° 35'49           morning rise         14271 Nov 13 01:37								47.47695 AU
morning rise 14270 Nov 24 14:52 5° ₹ 17'00 conjunction 14277 Nov 19 02:56 11° ₹ 57'49 -7° 50'22 retrograde 14271 Feb 22 08:46 6° ₹ 30'30 minimum elong 14277 Nov 19 03:06 11° ₹ 57'50 7° 49'25 opposition 14271 May 16 17:12 5° ₹ 30'26 -9° 43'34 morning rise 14277 Dec 02 14:22 12° ₹ 16'46 min. Earth dist. 14271 May 17 05:44 5° ₹ 29'51 46.30695 AU retrograde 14278 Mar 01 07:22 13° ₹ 29'56 direct 14271 Nov 01 04:33 5° ₹ 41'40 opposition 14278 May 23 10:20 12° ₹ 29'17 -8° 03'19 evening set 14271 Nov 13 13:56 5° ₹ 58'52 -9° 13'07 evening set 14278 Nov 06 20:25 12° ₹ 39'41 opposition 14271 Nov 13 14:08 5° ₹ 58'53 9° 12'12 max. Earth dist. 14271 Nov 13 01:37 5° ₹ 58'99 48.22271 AU conjunction 14278 Nov 20 09:47 12° ₹ 58'46 -7° 35'49 morning rise 14271 Nov 26 00:47 6° ₹ 16'11 minimum elong 14272 Rep 23 13:01 7° ₹ 29'35 max. Earth dist. 14278 Nov 20 09:57 12° ₹ 58'46 7° 34'50 retrograde 14272 May 16 22:48 6° ₹ 29'26 -9° 29'58 morning rise 14278 Nov 19 14:39 12° ₹ 57'38 47.33847 AU opposition 14272 May 16 22:48 6° ₹ 29'26 -9° 29'58 morning rise 14278 Dec 04 00:49 13° ₹ 17'59 min. Earth dist. 14272 May 17 11:09 6° ₹ 28'51 46.19026 AU retrograde 14279 Mar 02 10:46 14° ₹ 31'08 direct 14272 May 24 16:49 13° ₹ 30'23 -7° 48'04	Č		4° <b>₹</b> ′59'14	48.33665 AU				
retrograde 14271 Feb 22 08:46 6°\$\tilde{x}^30'30\$ minimum elong 14277 Nov 19 03:06 11°\$\tilde{x}^55'50\$ 7°49'25 opposition 14271 May 16 17:12 5°\$\tilde{x}^30'26 -9°43'34 morning rise 14277 Dec 02 14:22 12°\$\tilde{x}^16'46\$ min. Earth dist. 14271 May 17 05:44 5°\$\tilde{x}^29'51\$ 46.30695 AU retrograde 14278 Mar 01 07:22 13°\$\tilde{x}^29'51\$ 46.30695 AU opposition 14278 May 23 10:20 12°\$\tilde{x}^29'17\$ -8°03'19 evening set 14271 Nov 01 04:33 5°\$\tilde{x}^41'40\$ min. Earth dist. 14278 May 24 04:05 12°\$\tilde{x}^29'17\$ 45.42642 AU direct 14278 Nov 13 13:56 5°\$\tilde{x}^35'52\$ -9°13'07 evening set 14278 Nov 06 20:25 12°\$\tilde{x}^39'41\$ conjunction 14271 Nov 13 14:08 5°\$\tilde{x}^35'53\$ 9°12'12 max. Earth dist. 14271 Nov 13 01:37 5°\$\tilde{x}^35'89\$ 48.22271 AU conjunction 14278 Nov 20 09:47 12°\$\tilde{x}^35'46\$ -7°35'49 morning rise 14271 Nov 26 00:47 6°\$\tilde{x}^16'11\$ minimum elong 14278 Nov 20 09:57 12°\$\tilde{x}^35'847\$ 7°34'50 retrograde 14272 May 16 22:48 6°\$\tilde{x}^29'26\$ -9°29'58 morning rise 14278 Dec 04 00:49 13°\$\tilde{x}^15'\$\tilde{x}^31'08\$ direct 14278 May 24 16:49 13°\$\tilde{x}^31'08\$ -7°48'04					conjunction	14277 Nov 19 02:56	11° <b>×</b> 757'49	-7°50'22
opposition 14271 May 16 17:12 5° ₹30'26 -9°43'34 min. Earth dist. 14271 May 17 05:44 5° ₹29'51 46.30695 AU retrograde 14278 Mar 01 07:22 13° ₹29'56  direct 14271 Aug 06 17:46 4° ₹30'54 opposition 14278 May 23 10:20 12° ₹29'17 -8°03'19 evening set 14271 Nov 01 04:33 5° ₹41'40 min. Earth dist. 14278 May 24 04:05 12° ₹28'27 45.42642 AU direct 14278 Aug 13 05:49 11° ₹29'07  conjunction 14271 Nov 13 13:56 5° ₹58'52 -9°13'07 evening set 14271 Nov 13 14:08 5° ₹58'53 9°12'12 max. Earth dist. 14271 Nov 13 01:37 5° ₹58'09 48.22271 AU conjunction 14278 Nov 20 09:47 12° ₹58'46 -7°35'49 morning rise 14271 Nov 26 00:47 6° ₹16'11 minimum elong 14272 Feb 23 13:01 7° ₹29'35 max. Earth dist. 14272 May 16 22:48 6° ₹29'26 -9°29'58 morning rise 14272 May 17 11:09 6° ₹28'51 46.19026 AU retrograde 0pposition 14279 May 24 16:49 13° ₹30'23 -7°48'04	-				-			
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direct 14271 Aug 06 17:46 4° ₹30'54 opposition 14278 May 23 10:20 12° ₹29'17 -8°03'19 evening set 14271 Nov 01 04:33 5° ₹41'40 min. Earth dist. 14278 May 24 04:05 12° ₹28'27 45.42642 AU direct 14278 Aug 13 05:49 11° ₹29'07 conjunction 14271 Nov 13 13:56 5° ₹58'52 -9°13'07 evening set 14278 Nov 06 20:25 12° ₹39'41 minimum elong 14271 Nov 13 14:08 5° ₹58'53 9°12'12 max. Earth dist. 14271 Nov 13 01:37 5° ₹58'99 48.22271 AU conjunction 14278 Nov 20 09:47 12° ₹58'46 -7°35'49 morning rise 14271 Nov 26 00:47 6° ₹16'11 minimum elong 14278 Nov 20 09:57 12° ₹58'47 7°34'50 retrograde 14272 Feb 23 13:01 7° ₹29'35 max. Earth dist. 14278 Nov 19 14:39 12° ₹58'47 7°34'50 opposition 14272 May 16 22:48 6° ₹29'26 -9°29'58 morning rise 14278 Dec 04 00:49 13° ₹17'59 min. Earth dist. 14272 May 17 11:09 6° ₹28'51 46.19026 AU retrograde 14279 May 24 16:49 13° ₹31'08 direct 14272 Aug 06 23:27 5° ₹29'48 opposition 14279 May 24 16:49 13° ₹30'23 -7°48'04		•			•			
evening set    14271 Nov 01 04:33   5° \( \frac{\mathcal{A}}{4}140 \)   min. Earth dist.   14278 May 24 04:05   12° \( \frac{\sigma}{2}827 \)   45.42642 AU   direct   14278 Aug 13 05:49   11° \( \frac{\sigma}{2}9207 \)   conjunction   14271 Nov 13 13:56   5° \( \frac{\sigma}{5}85852 \)   9° 13'07   evening set   14278 Nov 06 20:25   12° \( \frac{\sigma}{3}941 \)				40.300/3/10	-			-8°03'19
direct 14278 Aug 13 05:49 11° ₹29'07 conjunction 14271 Nov 13 13:56 5° ₹58'52 -9°13'07 evening set 14278 Nov 06 20:25 12° ₹39'41 minimum elong 14271 Nov 13 14:08 5° ₹58'53 9°12'12 max. Earth dist. 14271 Nov 13 01:37 5° ₹58'09 48.22271 AU conjunction 14278 Nov 20 09:47 12° ₹58'46 -7°35'49 morning rise 14271 Nov 26 00:47 6° ₹16'11 minimum elong 14278 Nov 20 09:57 12° ₹58'47 7°34'50 retrograde 14272 Feb 23 13:01 7° ₹29'35 max. Earth dist. 14278 Nov 19 14:39 12° ₹58'47 7°34'50 opposition 14272 May 16 22:48 6° ₹29'26 -9°29'58 morning rise 14278 Dec 04 00:49 13° ₹17'59 min. Earth dist. 14272 May 17 11:09 6° ₹28'51 46.19026 AU retrograde 14279 Mar 02 10:46 14° ₹31'08 direct 14272 Aug 06 23:27 5° ₹29'48 opposition 14279 May 24 16:49 13° ₹30'23 -7°48'04		_				•		
conjunction   14271 Nov 13 13:56   5° ₹ 58′52 -9°13′07   evening set   14278 Nov 06 20:25   12° ₹ 39′41     minimum elong   14271 Nov 13 14:08   5° ₹ 58′53   9°12′12     max. Earth dist.   14271 Nov 13 01:37   5° ₹ 58′09   48.22271 AU   conjunction   14278 Nov 20 09:47   12° ₹ 58′46 -7°35′49     morning rise   14271 Nov 26 00:47   6° ₹ 16′11   minimum elong   14278 Nov 20 09:57   12° ₹ 58′47   7°34′50     retrograde   14272 Feb 23 13:01   7° ₹ 29′35   max. Earth dist.   14278 Nov 19 14:39   12° ₹ 57′38   47.33847 AU     opposition   14272 May 16 22:48   6° ₹ 29′26 -9°29′58   morning rise   14278 Dec 04 00:49   13° ₹ 17′59     min. Earth dist.   14272 May 17 11:09   6° ₹ 28′51   46.19026 AU   retrograde   14279 Mar 02 10:46   14° ₹ 31′08     direct   14272 Aug 06 23:27   5° ₹ 29′48   opposition   14279 May 24 16:49   13° ₹ 30′23 -7°48′04	o ronning set	212/1110V 01 UT.33	2 × 41 ±0			•		15.12072 AU
minimum elong	conjunction	14271 Nov 12 12:56	50 <b>J</b> 50157	-9°13'07		· ·		
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morning rise 14271 Nov 26 00:47 6° ₹16'11 minimum elong 14278 Nov 20 09:57 12° ₹58'47 7°34'50 retrograde 14272 Feb 23 13:01 7° ₹29'35 max. Earth dist. 14278 Nov 19 14:39 12° ₹57'38 47.33847 AU opposition 14272 May 16 22:48 6° ₹29'26 -9°29'58 morning rise 14278 Dec 04 00:49 13° ₹17'59 min. Earth dist. 14272 May 17 11:09 6° ₹28'51 46.19026 AU retrograde 14279 Mar 02 10:46 14° ₹31'08 direct 14272 Aug 06 23:27 5° ₹29'48 opposition 14279 May 24 16:49 13° ₹30'23 -7°48'04	Č				conjunction	14278 Nov. 20, 00-47	120 750116	-7°35'/10
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min. Earth dist. 14272 May 17 11:09 6° 🗷 28'51 46.19026 AU retrograde 14279 Mar 02 10:46 14° 🗷 31'08 direct 14272 Aug 06 23:27 5° 🗷 29'48 opposition 14279 May 24 16:49 13° 🗷 30'23 -7°48'04	•			0°20'5°				+1.33041 AU
direct 14272 Aug 06 23:27 5° ₹729'48 opposition 14279 May 24 16:49 13° ₹730'23 -7°48'04		•			-			
		•		40.19020 AU	-			7040104
evening set 142/2 Nov 01 00:15 0° x° 40 50 min. Earth dist. 142/9 May 25 11:54 13° x′ 29′ 28 45.28411 AU		_				•		
	evening set	142/2 NOV UI U0:15	o x'40'30		mm. darın qist.	14219 May 25 11:54	13 <b>X</b> '29'28	43.28411 AU

Fianciary Fileno	miena of Fluto from	114100 1111	ougn 14002 (C	) i ), Asiroulelist F	10-160-2023 14	.23, paş	36 14
direct	14279 Aug 14 15:15	12° <b>∡</b> '30'04		retrograde	14286 Mar 09 17:31	21° <b>х</b> 46'59	
evening set	14279 Nov 07 23:34	13° <b>х</b> 40'39		opposition	14286 May 31 16:21	20° <b>x</b> 45'12	5054140
evening set	142/9 NOV 07 23.34	13 8.4039		min. Earth dist.	14286 Jun 01 17:25		-3 34 40 44.17577 AU
	14270 N 21 16-20	13° <b>∡</b> ′59'59	7921102	direct	14286 Aug 21 11:39	20 <b>x</b> ·43 38 19° <b>x</b> 43 47	44.1/3// AU
conjunction	14279 Nov 21 16:30				14286 Nov 14 04:14		
minimum elong	14279 Nov 21 16:39	14° × 700'00		evening set	14280 NOV 14 U4:14	20° <b>∡</b> ′54′50	
max. Earth dist.	14279 Nov 20 20:03		47.19493 AU	. ,.	1420CN 20 10 44	210 71555	5021114
morning rise	14279 Dec 05 11:12	14° 🖈 19'27		conjunction	14286 Nov 28 19:44	21° 🗷 15'55	
retrograde	14280 Mar 02 17:58	15° 🗷 32'36	7022125	minimum elong	14286 Nov 28 19:51	21° 🗷 15'55	
opposition	14280 May 24 23:17	14° <b>₹</b> 31'43		max. Earth dist.	14286 Nov 27 17:39		46.08263 AU
min. Earth dist.	14280 May 25 18:45		45.13685 AU	morning rise	14286 Dec 13 12:53	21° <b>х</b> 37'08	
direct	14280 Aug 14 22:22	13° <b>×</b> 31'15		retrograde	14287 Mar 11 03:44	22° <b>х</b> 50'43	5025120
evening set	14280 Nov 08 03:01	14° <b>∡</b> ′41′50		opposition	14287 Jun 01 23:43	21° <b>х</b> 48'49	
				min. Earth dist.	14287 Jun 03 00:33		44.00579 AU
conjunction	14280 Nov 21 23:27	15° <b>⋌</b> '01'26		direct	14287 Aug 22 16:11	20° <b>∡</b> ′47′16	
minimum elong	14280 Nov 21 23:37	15° <b>⋌</b> '01'26		evening set	14287 Nov 15 09:23	21° <b>₹</b> ′58′29	
max. Earth dist.	14280 Nov 21 01:21		47.04644 AU	max. Earth dist.	14287 Nov 28 23:34	22° <b>҂</b> 18′07	45.91222 AU
morning rise	14280 Dec 05 21:46	15° <b>∡</b> ′21′09					
retrograde	14281 Mar 04 03:41	16° <b>∡</b> ³34'19		conjunction	14287 Nov 30 03:29	22° <b>∡</b> 19'48	-5°14'36
opposition	14281 May 26 05:51	15° <b>∡</b> ³33'16	-7°16'53	minimum elong	14287 Nov 30 03:37	22° <b>∡</b> 19'49	5°13'34
min. Earth dist.	14281 May 27 03:23	15° <b>∡</b> ³32'13	44.98500 AU	morning rise	14287 Dec 14 23:35	22° <b>х</b> 41′16	
direct	14281 Aug 16 03:06	14° <b>∡</b> "32′39		retrograde	14288 Mar 11 14:25	23° <b>₹</b> ′55′00	
evening set	14281 Nov 09 06:36	15° <b>∡</b> ′43'14		opposition	14288 Jun 02 07:21	22° <b>х</b> 52'59	-5°20'00
max. Earth dist.	14281 Nov 22 08:20	16° <b>∡</b> °01'46	46.89372 AU	min. Earth dist.	14288 Jun 03 09:37	22° <b>∡</b> 51'41	43.83284 AU
				direct	14288 Aug 22 20:57	21° <b>₹</b> ′51′18	
conjunction	14281 Nov 23 06:35	16° <b>₹</b> ′03′05	-6°50'50	evening set	14288 Nov 15 14:54	23° <b>х</b> 02′42	
minimum elong	14281 Nov 23 06:44	16° <b>∡</b> °03′06	6°49'50	max. Earth dist.	14288 Nov 29 07:43	23° <b>∡</b> ¹22'33	45.73837 AU
morning rise	14281 Dec 07 08:13	16° <b>∡</b> °23′04					
retrograde	14282 Mar 05 10:41	17° <b>∡</b> ³36′14		conjunction	14288 Nov 30 11:50	23° <b>∡</b> ¹24'16	-4°57'44
opposition	14282 May 27 12:28	16° <b>∡</b> ³35′02	-7°00'56	minimum elong	14288 Nov 30 11:56	23° <b>∡</b> ¹24'16	4°56'43
min. Earth dist.	14282 May 28 09:59	16° <b>х</b> 34′00	44.82916 AU	morning rise	14288 Dec 15 10:25	23° <b>х</b> 45'59	
direct	14282 Aug 17 09:11	15° <b>∡</b> ³34'15		retrograde	14289 Mar 12 20:22	24° <b>₹</b> ′59'53	
evening set	14282 Nov 10 10:28	16° <b>∡</b> ¹44'53		opposition	14289 Jun 03 15:02	23° <b>∡</b> ′57'44	-5°02'18
C				min. Earth dist.	14289 Jun 04 18:16	23° <b>₹</b> ¹56'23	43.65608 AU
conjunction	14282 Nov 24 13:34	17° <b>∡</b> ¹04'59	-6°35'23	direct	14289 Aug 24 06:31	22° <b>₹</b> ¹55'54	
minimum elong	14282 Nov 24 13:43	17° <b>∡</b> ¹05'00	6°34'23	evening set	14289 Nov 16 20:58	24° <b>₹</b> '07'31	
max. Earth dist.	14282 Nov 23 13:28		46.73725 AU	8			
morning rise	14282 Dec 08 18:40	17° <b>∡</b> ¹25'13		conjunction	14289 Dec 01 20:20	24° <b>∡</b> °29'19	-4°40'38
retrograde	14283 Mar 06 18:30	18° <b>∡</b> ³38'24		minimum elong	14289 Dec 01 20:26	24° <b>∡</b> °29'19	4°39'35
opposition	14283 May 28 19:14	17° <b>∡</b> °37'03	-6°44'45	max. Earth dist.	14289 Nov 30 14:44		45.56048 AU
min. Earth dist.	14283 May 29 17:57		44.66998 AU	morning rise	14289 Dec 16 21:32	24° <b>₹</b> 751'16	
direct	14283 Aug 18 14:26	16° <b>∡</b> ¹36'06		retrograde	14290 Mar 14 04:26	26° <b>₹</b> '05'22	
evening set	14283 Nov 11 14:26	17° <b>∡</b> ¹46'48		opposition	14290 Jun 04 22:58	25° <b>×</b> <sup>7</sup> 03'04	-4°44'21
e vennig see	1.2031.07 11 11.20	17 71 10 10		min. Earth dist.	14290 Jun 06 02:50		43.47498 AU
conjunction	14283 Nov 25 20:54	18° <b>∡</b> ¹07'09	-6°19'42	direct	14290 Aug 25 15:22	24° <b>×</b> 01'04	13.17 190 110
minimum elong	14283 Nov 25 21:02	18° <b>×</b> <sup>7</sup> 07'10		evening set	14290 Nov 18 03:14	25° <b>∡</b> 12'53	
max. Earth dist.	14283 Nov 24 20:48		46.57758 AU	max. Earth dist.	14290 Dec 01 21:46		45.37773 AU
morning rise	14283 Dec 10 05:04	18° <b>×</b> 27'38	40.57750710	max. Lartii dist.	142)0 Dec 01 21.40	23 × 33 00	43.37773710
retrograde	14284 Mar 06 23:58	19° <b>×</b> 40'53		conjunction	14290 Dec 03 04:59	25° <b>х</b> 34′56	-4°23'18
opposition	14284 May 29 02:11	18° <b>×</b> 39'23	-6°28'19	minimum elong	14290 Dec 03 05:05	25° × 34'56	
min. Earth dist.	14284 May 30 01:42		44.50782 AU	morning rise	14290 Dec 18 08:33	25° × 57'06	7 22 10
direct	14284 Aug 18 23:02	17° 🗷 38'16	44.30762 AU	retrograde	14291 Mar 15 14:51	27° <b>x</b> 37'00	
evening set	14284 Nov 11 18:45	18° <b>×</b> 49'04		opposition	14291 Jun 06 07:16	26° × 1123	4°26'00
max. Earth dist.	14284 Nov 25 03:11		46.41525 AU	min. Earth dist.	14291 Jun 07 13:11		43.28897 AU
max. Earm dist.	14204 NOV 25 05.11	19 8 00 09	40.41323 AU	direct		25° <b>₹</b> '06'46	43.2009/ AU
	14204 N 26 04-16	100.700120	(902147		14291 Aug 26 22:39		
conjunction	14284 Nov 26 04:16	19° <b>×</b> 709'39		evening set	14291 Nov 19 09:50	26° <b>₹</b> 18'47	45 10025 ATT
minimum elong	14284 Nov 26 04:24	19° 🗷 09'40	6°02'47	max. Earth dist.	14291 Dec 03 06:17	26° <b>X</b> '39'06	45.19025 AU
morning rise	14284 Dec 10 15:37	19° 🗷 30'23			14201 D 04 12 50	260 741102	4005145
retrograde	14285 Mar 08 07:45	20° <b>x</b> 43'43	(011127	conjunction	14291 Dec 04 13:58	26° <b>x</b> 41'03	
opposition	14285 May 30 09:11	19° <b>х</b> 42'04		minimum elong	14291 Dec 04 14:04	26° × 41'03	4°04'42
min. Earth dist.	14285 May 31 08:40		44.34310 AU	morning rise	14291 Dec 19 19:44	27° 🗷 03'27	
direct	14285 Aug 20 05:53	18° 🗷 40'49		retrograde	14292 Mar 16 01:01	28° <b>∡</b> 17'58	
evening set	14285 Nov 12 23:24	19° <b>∡</b> ′51'43		opposition	14292 Jun 06 15:33	27° <b>⋌</b> 15'18	
max. Earth dist.	14285 Nov 26 09:36	20° <b>∡</b> 10'58	46.25018 AU	min. Earth dist.	14292 Jun 07 21:32		43.09828 AU
				direct	14292 Aug 27 05:27	26° <b>⋌</b> 12'55	
conjunction	14285 Nov 27 11:53	20° <b>∡</b> 12'33		evening set	14292 Nov 19 16:48	27° <b>∡</b> °25′09	
minimum elong	14285 Nov 27 12:01	20° <b>∡</b> 12'33	5°46'37				
morning rise	14285 Dec 12 02:15	20° <b>∡</b> '33'32		conjunction	14292 Dec 04 22:59	27° <b>∡</b> ¹47'38	-3°47'58

	14202 D 04 22-04	270.747120	2046155		14200 D 20 02-25	5° <b>る</b> 00'50	
minimum elong	14292 Dec 04 23:04	27° <b>х</b> 47'39		morning rise	14298 Dec 28 03:25		
max. Earth dist.	14292 Dec 03 13:05		44.99815 AU	retrograde	14299 Mar 25 02:27	6°る17'14	1051104
morning rise	14292 Dec 20 07:04	28° <b>∡</b> 10'16		opposition	14299 Jun 15 07:23	5° <b>ප</b> 13'00	
retrograde	14293 Mar 17 13:19	29° <b>∡</b> ¹24'59		min. Earth dist.	14299 Jun 16 18:33		41.67470 AU
opposition	14293 Jun 08 00:08	28° <b>≯</b> 22'07		direct	14299 Sep 04 15:30	4° <b>る</b> 08'56	
min. Earth dist.	14293 Jun 09 07:52	28° <b>∡</b> ¹20'31	42.90333 AU	evening set	14299 Nov 28 03:04	5° <b>る</b> 23'19	
direct	14293 Aug 28 11:02	27° <b>х</b> 19'29		max. Earth dist.	14299 Dec 12 05:31	5° <b>る</b> 44'45	43.56984 AU
evening set	14293 Nov 21 00:01	28° <b>∡</b> 31'58					
max. Earth dist.	14293 Dec 04 22:23	28° <b>∡</b> 52'34	44.80195 AU	conjunction	14299 Dec 13 20:21	5° <b>る</b> 47'14	-1°36'50
				minimum elong	14299 Dec 13 20:23	5°₹47'14	1°35'47
conjunction	14293 Dec 06 08:22	28° <b>₹</b> 54'40	-3°29'57	morning rise	14299 Dec 29 15:19	6° <b>ප</b> 11'17	
minimum elong	14293 Dec 06 08:27	28° <b>×</b> 754'41		retrograde	14300 Mar 26 14:13	7° <b>る</b> 28'03	
morning rise	14293 Dec 21 18:17	29° <b>х</b> 3741	3 20 34	opposition	14300 Jun 16 17:25	6° <b>る</b> 23'37	1°31'04
morning rise				11			
	14294 Jan 23 03:46	0°る		min. Earth dist.	14300 Jun 18 05:14		41.46280 AU
retrograde	14294 Mar 18 21:47	0°る32'26		direct	14300 Sep 06 00:57	5° <b>る</b> 19'19	
	14294 May 13 19:05	30°Ŗ <b>⋌</b> ¹		evening set	14300 Nov 29 13:05	6° <b>る</b> 34'07	
opposition	14294 Jun 09 08:44	29° <b>×</b> 29'21	-3°30'07	max. Earth dist.	14300 Dec 13 15:50	6° <b>る</b> 55'41	43.35688 AU
min. Earth dist.	14294 Jun 10 17:08	29° <b>∡</b> ¹27'43	42.70461 AU				
direct	14294 Aug 29 20:37	28° <b>∡</b> ¹26'29		conjunction	14300 Dec 15 07:25	6° <b>ප</b> 58'14	-1°17'09
evening set	14294 Nov 22 07:39	29° <b>∡</b> ³39'13		minimum elong	14300 Dec 15 07:27	6° <b>る</b> 58'14	1°16'05
max. Earth dist.	14294 Dec 06 06:23	29° <b>₹</b> 59'55	44.60244 AU	morning rise	14300 Dec 31 03:14	7° <b>る</b> 22'29	
	14294 Dec 06 07:39	0°ਰ		retrograde	14301 Mar 28 00:52	8° <b>る</b> 39'40	
	142)4 Dec 00 07.5)	٠ <b>٠</b>		opposition	14301 Jun 18 03:51	7° <b>る</b> 35'01	1°10'20
agniumation	14294 Dec 07 17:46	0°る02'08	2011142	min. Earth dist.	14301 Jun 19 17:11		41.24804 AU
conjunction		. •					41.24804 AU
minimum elong	14294 Dec 07 17:50	0°る02'08	3-10-39	direct	14301 Sep 07 11:48	6° <b>る</b> 30'29	
morning rise	14294 Dec 23 05:40	0° <b>ට</b> 25'11		evening set	14301 Nov 30 23:46	7° <b>る</b> 45'45	
retrograde	14295 Mar 20 07:07	1° <b>る</b> 40'21		max. Earth dist.	14301 Dec 15 02:41	8° <b>ර</b> 07'26	43.14082 AU
opposition	14295 Jun 10 17:35	0° <b>る</b> 37'02	-3°10'55				
min. Earth dist.	14295 Jun 12 02:23	0° <b>る</b> 35'22	42.50302 AU	conjunction	14301 Dec 16 18:53	8° <b>る</b> 10'03	-0°57'15
	14295 Jul 13 08:14	30°₹ <b>৴</b>		minimum elong	14301 Dec 16 18:55	8° <b>⋜</b> 10′03	0°56'12
direct	14295 Aug 31 05:14	29° <b>∡</b> ³33'55		morning rise	14302 Jan 01 15:26	8° <b>る</b> 34'28	
	14295 Oct 18 03:05	8°0		retrograde	14302 Mar 29 12:44	9° <b>る</b> 52'05	
evening set	14295 Nov 23 15:25	0°る46'55		opposition	14302 Jun 19 14:23	8° <b>る</b> 47'14	-0°49'21
max. Earth dist.	14295 Dec 07 15:04	1°₹07'46	44.40005 AU	min. Earth dist.	14302 Jun 21 03:48	8° <b>\</b> 345'17	41.02991 AU
max. Earth dist.	112/3 Bec 0/ 13.01	1 007 10	11.10003710	direct	14302 Sep 08 21:46	7° <b>る</b> 42'27	11.02//1110
agniumation	14295 Dec 09 03:18	1°る10'03	2052112		14302 Dec 02 11:02	8° <b>る</b> 58'11	
conjunction				evening set			42 02002 ATT
minimum elong	14295 Dec 09 03:22	1°る10'03	2°52′10	max. Earth dist.	14302 Dec 16 12:20	9,019,33	42.92093 AU
morning rise	14295 Dec 24 16:52	1° <b>る</b> 33'19				_	
retrograde	14296 Mar 20 15:05	2° <b>る</b> 48'45		conjunction	14302 Dec 18 06:38	9° <b>ප</b> 22'39	
opposition	14296 Jun 11 02:48	1° <b>る</b> 45'11	-2°51'28	minimum elong	14302 Dec 18 06:39	9° <b>る</b> 22'39	0°36'03
min. Earth dist.	14296 Jun 12 12:55	1° <b>る</b> 43'27	42.29885 AU	morning rise	14303 Jan 03 03:48	9° <b>る</b> 47'15	
direct	14296 Aug 31 15:57	0° <b>る</b> 41'50		retrograde	14303 Mar 31 03:15	11° <b>る</b> 05'21	
evening set	14296 Nov 23 23:42	1° <b>る</b> 55'07		opposition	14303 Jun 21 01:32	10° <b>පි</b> 00'15	-0°28'07
max. Earth dist.	14296 Dec 08 01:06	2° <b>ප</b> 16'10	44.19544 AU	min. Earth dist.	14303 Jun 22 16:51	9° <b>ප</b> 58'11	40.80791 AU
				direct	14303 Sep 10 05:49	8° <b>る</b> 55'12	
conjunction	14296 Dec 09 13:15	2° <b>ප</b> 18'27	-2°34'29	evening set	14303 Dec 03 22:30	10° <b>る</b> 11'26	
minimum elong	14296 Dec 09 13:18	2°る18'27		max. Earth dist.	14303 Dec 18 00:23		42.69710 AU
morning rise	14296 Dec 25 04:21	2°る41'55	2 33 23	max. Lartii dist.	14303 Dec 10 00.23	10 033 10	42.07/10/10
•				aaniumatian	14202 Dec. 10, 19:42	10° <b>る</b> 36'04	0016146
retrograde	14297 Mar 22 02:19	3°る57'38	2021146	conjunction	14303 Dec 19 18:43		
opposition	14297 Jun 12 11:56	2°る53'51		minimum elong	14303 Dec 19 18:43	10°る36'04	0°15'43
min. Earth dist.	14297 Jun 13 21:41		42.09266 AU	behind sun begin	14303 Dec 19 17:47	10° <b>පි</b> 36'01	
direct	14297 Sep 01 23:57	1°る50'15		behind sun end	14303 Dec 19 19:39	10° <b>පි</b> 36'08	
evening set	14297 Nov 25 08:29	3° <b>る</b> 03'53		morning rise	14304 Jan 04 16:09	11° <b>る</b> 00'49	
max. Earth dist.	14297 Dec 09 09:26	3° <b>る</b> 25'00	43.98878 AU	retrograde	14304 Mar 31 17:15	12° <b>る</b> 19'23	
				opposition	14304 Jun 21 12:52	11° <b>る</b> 14'02	-0°06'39
conjunction	14297 Dec 10 23:20	3° <b>る</b> 27'24	-2°15'30	min. Earth dist.	14304 Jun 23 04:27	11° <b>る</b> 11'57	40.58198 AU
minimum elong	14297 Dec 10 23:24	3° <b>る</b> 27'25	2°14'27	direct	14304 Sep 10 15:45	10°る08'42	
morning rise	14297 Dec 26 15:59	3° <b>ප</b> 51'04		asc. node	14304 Oct 12 17:05	10° <b>පි</b> 21'11	
retrograde	14298 Mar 23 15:50	5° <b>ਰ</b> 07'07		evening set	14304 Dec 04 10:46	11° <b>る</b> 25'27	
opposition	14298 Jun 13 21:33	4°る03'06	-2°11'47	max. Earth dist.	14304 Dec 18 10:44		42.46950 AU
min. Earth dist.			41.88464 AU	man. Latui Wist.	17307 DCC 10 10.44	11 07/20	12.70/30 AU
	14298 Jun 15 08:45		+1.00404 AU		14204 D 20 07 07	110750115	0902157
direct	14298 Sep 03 05:27	2°る59'16		conjunction	14304 Dec 20 07:06	11°る50'15	0°03'56
evening set	14298 Nov 26 17:25	4°る13'15		minimum elong	14304 Dec 20 07:05	11°る50'15	0°04'59
max. Earth dist.	14298 Dec 10 20:11	4° <b>്</b> 34'35	43.78025 AU	behind sun begin	14304 Dec 20 00:48	11° <b>る</b> 49'52	
				behind sun end	14304 Dec 20 13:23	11° <b>る</b> 50'38	
conjunction	14298 Dec 12 09:42	4° <b>පි</b> 36'58		morning rise	14305 Jan 05 04:54	12° <b>る</b> 15'10	
minimum elong	14298 Dec 12 09:45	4° <b>る</b> 36'59	1°55'13	retrograde	14305 Apr 02 08:03	13° <b>る</b> 34'13	

direct	14318 Sep 29 04:42	28° <b>ප</b> 54'50		morning rise	14325 Feb 01 04:13	10° <b>≈</b> 31'39	
_	14318 Dec 11 13:33	0° <b>≈</b>		retrograde	14325 May 02 07:53	12° <b>≈</b> 08′27	
evening set	14318 Dec 25 05:59	0°≈22'29	20.07210.444	opposition	14325 Jul 21 04:55	10°≈56'11	
max. Earth dist.	14319 Jan 06 23:06	0°≈44′24	39.07318 AU	min. Earth dist.	14325 Jul 23 08:45		35.42975 AU
agniumation	14319 Jan 09 05:38	0° <b>≈</b> 48'22	5°12'39	direct	14325 Oct 09 07:46 14326 Jan 06 14:31	9° <b>≈</b> 43'17 11° <b>≈</b> 19'48	
conjunction minimum elong	14319 Jan 09 05:30	0 ≈48 22 0°≈48'21		evening set max. Earth dist.	14326 Jan 17 20:49		37.28542 AU
morning rise	14319 Jan 24 05:41	0 ≈4821 1°≈14'18	3 13 30	max. Earth dist.	14320 Jan 17 20.49	11 240 20	37.26342 AU
retrograde	14319 Apr 22 20:48	2°≈43'54		conjunction	14326 Jan 20 05:44	11° <b>≈</b> 44'49	7°55'48
opposition	14319 Jul 12 09:58	1° <b>≈</b> 33'53	5°41'52	minimum elong	14326 Jan 20 05:32	11° <b>≈</b> 44'48	7°56'39
min. Earth dist.	14319 Jul 14 11:23	1° <b>≈</b> 31'04	36.95255 AU	morning rise	14326 Feb 02 20:49	12° <b>≈</b> 09'52	
direct	14319 Sep 30 22:19	0° <b>≈</b> 23'25		retrograde	14326 May 04 07:03	13° <b>≈</b> 48′04	
evening set	14319 Dec 27 04:21	1° <b>≈</b> 52'09		opposition	14326 Jul 23 02:05	12° <b>≈</b> 35′27	8°35'07
max. Earth dist.	14320 Jan 08 16:29	2° <b>≈</b> 13'53	38.81677 AU	min. Earth dist.	14326 Jul 25 05:30	12° <b>≈</b> 32′22	35.17802 AU
				direct	14326 Oct 11 04:26	11° <b>≈</b> 22′09	
conjunction	14320 Jan 11 00:23	2° <b>≈</b> 17'59	5°35'51	evening set	14327 Jan 08 19:58	13° <b>≈</b> 00'11	
minimum elong	14320 Jan 11 00:15	2° <b>≈</b> 17'58	5°36'48	max. Earth dist.	14327 Jan 19 18:25	13° <b>≈</b> 20′25	37.03150 AU
morning rise	14320 Jan 25 20:53	2°≈43'52					
retrograde	14320 Apr 23 15:44	4°≈14'32	(00/120	conjunction	14327 Jan 22 04:56	13°≈24'58	8°19'02
opposition min. Earth dist.	14320 Jul 13 03:49 14320 Jul 15 06:36	3°≈04'06	6°06'28 36.69734 AU	minimum elong morning rise	14327 Jan 22 04:45 14327 Feb 04 13:52	13°≈24'57 13°≈49'46	8°19'52
direct	14320 Oct 01 14:06	3 ≈0111 1°≈53'14	30.09/34 AU	morning rise	14327 Feb 04 13.32 14327 Mar 20 22:43	15 ≈49 46 15°≈	
evening set	14320 Dec 28 03:38	3°≈23'05		retrograde	14327 May 06 07:23	15 <b>≈</b> 15° <b>≈</b> 29'27	
max. Earth dist.	14321 Jan 09 12:39		38.56008 AU	retrograde	14327 Jun 22 15:42	15 <b>≈</b> 2727 15°R <b>≈</b>	
man. Barur dige.	1.021 0411 07 12.07	5	30.20000110	opposition	14327 Jul 25 00:07	14°≈16'27	8°59'50
conjunction	14321 Jan 11 19:54	3° <b>≈</b> 48'50	5°59'07	min. Earth dist.	14327 Jul 27 05:01		34.92606 AU
minimum elong	14321 Jan 11 19:45	3° <b>≈</b> 48'50	6°00'02	direct	14327 Oct 12 22:16	13° <b>≈</b> 02'44	
morning rise	14321 Jan 26 12:17	4° <b>≈</b> 14'39		evening set	14328 Jan 11 02:23	14° <b>≈</b> 42′20	
retrograde	14321 Apr 25 11:26	5° <b>≈</b> 46′24			14328 Jan 20 13:44	15° <b>≈</b>	
opposition	14321 Jul 14 21:57	4° <b>≈</b> 35'36	6°31'10	max. Earth dist.	14328 Jan 21 18:51	15° <b>≈</b> 02'17	36.77722 AU
min. Earth dist.	14321 Jul 17 00:04	4° <b>≈</b> 32'42	36.44219 AU				
direct	14321 Oct 03 06:39	3° <b>≈</b> 24'17		conjunction	14328 Jan 24 04:54	15° <b>≈</b> 06′50	8°42'12
evening set	14321 Dec 30 03:57	4° <b>≈</b> 55'21		minimum elong	14328 Jan 24 04:42	15° <b>≈</b> 06'49	8°43'01
max. Earth dist.	14322 Jan 11 07:10	5° <b>≈</b> 16'48	38.30363 AU	morning rise	14328 Feb 06 07:02	15°≈31'20	
	14222 1 12 15 47	50 21100	(022)2(	retrograde	14328 May 07 07:43	17°≈12'33	0024120
conjunction minimum elong	14322 Jan 13 15:47 14322 Jan 13 15:38	5°≈21'00 5°≈21'00	6°22'26 6°23'22	opposition min. Earth dist.	14328 Jul 25 22:44 14328 Jul 28 03:14	15°≈59'09	9°24'28 34.67370 AU
morning rise	14322 Jan 13 13.38 14322 Jan 28 04:00	5°≈46'43	0 23 22	IIIII. Eartii dist.	14328 Sep 10 21:55	15 ≈33 38 15°R≈	34.07370 AU
retrograde	14322 Jan 28 04:00 14322 Apr 27 10:16	7°≈19'38		direct	14328 Sep 10 21:33 14328 Oct 13 19:48	13 k∞ 14°≈44'59	
opposition	14322 Jul 16 16:50	6°≈08'27	6°55'56	direct	14328 Nov 15 07:30	15° <b>≈</b>	
min. Earth dist.	14322 Jul 18 19:50		36.18774 AU	evening set	14329 Jan 12 10:13	16° <b>≈</b> 26'13	
direct	14322 Oct 04 22:25	4° <b>≈</b> 56'44		max. Earth dist.	14329 Jan 22 17:54	16° <b>≈</b> 45'40	36.52261 AU
evening set	14323 Jan 01 04:51	6° <b>≈</b> 29'02					
max. Earth dist.	14323 Jan 13 04:13	6° <b>≈</b> 50′23	38.04787 AU	conjunction	14329 Jan 25 05:31	16° <b>≈</b> 50′23	9°05'15
				minimum elong	14329 Jan 25 05:19	16° <b>≈</b> 50′22	9°06'03
conjunction	14323 Jan 15 12:15	6° <b>≈</b> 54'35	6°45'48	morning rise	14329 Feb 07 00:42	17° <b>≈</b> 14'34	
minimum elong	14323 Jan 15 12:05	6° <b>≈</b> 54'34	6°46'41	retrograde	14329 May 09 11:13	18° <b>≈</b> 57'20	
morning rise	14323 Jan 29 19:36	7° <b>≈</b> 20'10		opposition	14329 Jul 27 21:55	17° <b>≈</b> 43'31	9°48'59
retrograde	14323 Apr 29 08:48	8°≈54'19		min. Earth dist.	14329 Jul 30 03:21		34.42138 AU
opposition	14323 Jul 18 12:20			direct	14329 Oct 15 16:05	16°≈28'52	
min. Earth dist. direct	14323 Jul 20 15:11	6°≈30'38	35.93414 AU	evening set max. Earth dist.	14330 Jan 14 18:57 14330 Jan 24 19:34	18°≈11'48	36.26810 AU
evening set	14323 Oct 06 17:25 14324 Jan 03 07:04	8°≈04'17		max. Earm dist.	14330 Jan 24 19.34	16 ≈30 32	30.20810 AU
max. Earth dist.	14324 Jan 15 00:41		37.79316 AU	conjunction	14330 Jan 27 06:54	18° <b>≈</b> 35'36	9°28'10
max. Earth dist.	14324 Juli 13 00.41	0 70.23 24	37.77310710	minimum elong	14330 Jan 27 06:40	18° <b>≈</b> 35'35	9°28'56
conjunction	14324 Jan 17 09:21	8° <b>≈</b> 29'41	7°09'09	morning rise	14330 Feb 08 18:22	18°≈59'25	
minimum elong	14324 Jan 17 09:10	8°≈29'40	7°10'03	retrograde	14330 May 11 13:46	20°≈43'48	
morning rise	14324 Jan 31 11:48	8° <b>≈</b> 55'07		opposition	14330 Jul 29 21:53	19° <b>≈</b> 29'32	10°13'21
retrograde	14324 Apr 30 09:47	10° <b>≈</b> 30'33		min. Earth dist.	14330 Aug 01 03:33	19° <b>≈</b> 26'14	34.16952 AU
opposition	14324 Jul 19 08:13	9° <b>≈</b> 18'38	7°45'33	direct	14330 Oct 17 15:19	18° <b>≈</b> 14'25	
min. Earth dist.	14324 Jul 21 11:01	9° <b>≈</b> 15'38	35.68167 AU	evening set	14331 Jan 17 04:50	19° <b>≈</b> 59'05	
direct	14324 Oct 07 12:05	8° <b>≈</b> 06'07		max. Earth dist.	14331 Jan 26 20:49	20° <b>≈</b> 17'39	36.01450 AU
evening set	14325 Jan 04 10:14	9° <b>≈</b> 41'10					
max. Earth dist.	14325 Jan 15 22:07	10° <b>≈</b> 02'02	37.53911 AU	conjunction	14331 Jan 29 08:38	20° <b>≈</b> 22'28	9°50'52
				minimum elong	14331 Jan 29 08:26	20°≈22'27	9°51'37
conjunction	14325 Jan 18 07:15	10°≈06'24		morning rise	14331 Feb 10 12:09	20°≈45'52	
minimum elong	14325 Jan 18 07:04	10° <b>≈</b> 06′23	/~33'22	retrograde	14331 May 13 18:30	22° <b>≈</b> 31'55	

opposition	14331 Jul 31 22:27	21° <b>≈</b> 17'13	10°37'31	direct	14337 Oct 30 00:00	1° <b>¥</b> 21'54	
min. Earth dist.	14331 Aug 03 03:51		33.91902 AU	evening set	14338 Feb 02 14:07	3°¥20'56	
direct	14331 Oct 19 14:47	20°≈01'36	33.71702110	max. Earth dist.	14338 Feb 09 09:04		34.31857 AU
evening set	14332 Jan 19 15:56	21°≈48'05		man Barm digt.	1.550100 07 07.01	5 7(5.0.	3 1.3 1 3 5 7 1 1 3
max. Earth dist.	14332 Jan 28 23:13		35.76233 AU	conjunction	14338 Feb 11 19:08	3° <b>¥</b> 39'53	12°20'14
				minimum elong	14338 Feb 11 18:54	3° <b>)</b> 39′52	12°20'48
conjunction	14332 Jan 31 11:21	22° <b>≈</b> 11'01	10°13'21	morning rise	14338 Feb 20 23:40	3° <b>)</b> 58'49	
minimum elong	14332 Jan 31 11:07	22°≈10'59	10°14'05	retrograde	14338 May 27 13:33	5° <b>)</b> 58'42	
morning rise	14332 Feb 12 06:19	22° <b>≈</b> 33'56		opposition	14338 Aug 13 22:52	4° <b>){</b> 41'03	13°16'07
retrograde	14332 May 14 22:11	24° <b>≈</b> 21'43		min. Earth dist.	14338 Aug 16 02:22	4° <b>)</b> €37'43	32.25387 AU
opposition	14332 Aug 01 23:40	23°≈06'34	11°01'25	direct	14338 Nov 01 04:39	3° <b>¥</b> 22'12	
min. Earth dist.	14332 Aug 04 05:49	23° <b>≈</b> 03'11	33.67043 AU	evening set	14339 Feb 05 10:38	5° <b>)</b> 23′39	
direct	14332 Oct 20 16:07	21° <b>≈</b> 50′27		max. Earth dist.	14339 Feb 11 17:41	5° <b>)</b> (36′43	34.09157 AU
evening set	14333 Jan 21 04:24	23° <b>≈</b> 38'49					
max. Earth dist.	14333 Jan 30 03:24	23° <b>≈</b> 56′21	35.51254 AU	conjunction	14339 Feb 14 03:18	5° <b>)</b> 41′43	12°39'34
				minimum elong	14339 Feb 14 03:06	5° <b>)</b> 41′42	12°40'05
conjunction	14333 Feb 01 14:46	24° <b>≈</b> 01'14	10°35'33	morning rise	14339 Feb 22 19:22	5° <b>¥</b> 59'45	
minimum elong	14333 Feb 01 14:33	24° <b>≈</b> 01′13	10°36'15	retrograde	14339 May 29 23:15	8° <b>₩</b> 01'55	
morning rise	14333 Feb 13 00:37	24° <b>≈</b> 23'37		opposition	14339 Aug 16 05:43	6° <b>)</b> 43′54	13°36'35
retrograde	14333 May 17 03:58	26° <b>≈</b> 13'13		min. Earth dist.	14339 Aug 18 09:38	6° <b>){</b> 40′30	32.03125 AU
opposition	14333 Aug 04 01:34	24° <b>≈</b> 57'37	11°25'00	direct	14339 Nov 03 10:33	5° <b>)</b> €24'38	
min. Earth dist.	14333 Aug 06 06:34	24° <b>≈</b> 54'17	33.42461 AU	evening set	14340 Feb 08 09:04	7° <b>)</b> €28'33	
direct	14333 Oct 22 18:21	23° <b>≈</b> 41′00		max. Earth dist.	14340 Feb 14 03:15	7° <b>){</b> 40′37	33.86807 AU
evening set	14334 Jan 23 17:58	25° <b>≈</b> 31′20					
max. Earth dist.	14334 Feb 01 06:42	25° <b>≈</b> 48'12	35.26568 AU	conjunction	14340 Feb 16 12:27	7° <b>)</b> 45′38	12°58'13
				minimum elong	14340 Feb 16 12:13	7° <b>)</b> 45′37	12°58'43
conjunction	14334 Feb 03 18:46	25° <b>≈</b> 53'10	10°57'24	morning rise	14340 Feb 24 15:17	8° <b>米</b> 02'41	
minimum elong	14334 Feb 03 18:32	25° <b>≈</b> 53'09	10°58'04	retrograde	14340 May 31 10:57	10° <b>)</b> €07'14	
morning rise	14334 Feb 14 19:09	26° <b>≈</b> 14'59		opposition	14340 Aug 17 13:06	8° <b>)</b> 48′50	13°56'21
retrograde	14334 May 19 07:58	28° <b>≈</b> 06′29		min. Earth dist.	14340 Aug 19 15:57		31.81204 AU
opposition	14334 Aug 06 04:20	26° <b>≈</b> 50′26	11°48'13	direct	14340 Nov 04 17:57	7° <b>¥</b> 29′07	
min. Earth dist.	14334 Aug 08 10:02		33.18221 AU	evening set	14341 Feb 10 08:59	9° <b>)</b> ₹35'36	
direct	14334 Oct 24 18:13	25° <b>≈</b> 33'21		max. Earth dist.	14341 Feb 15 12:53	9° <b>∺</b> 46'32	33.64791 AU
evening set	14335 Jan 26 08:54	27° <b>≈</b> 25'42					
200 4 41						001/	
max. Earth dist.	14335 Feb 03 13:05	27° <b>≈</b> 42'01	35.02261 AU	conjunction	14341 Feb 17 22:28	9° <b>)</b> ₹51'38	13°16'11
				minimum elong	14341 Feb 17 22:17	9° <b>)</b> 51'37	13°16'11 13°16'39
conjunction	14335 Feb 05 23:41	27°≈46'55	11°18'51	minimum elong morning rise	14341 Feb 17 22:17 14341 Feb 25 11:29	9° <b>米</b> 51'37 10° <b>米</b> 07'36	
conjunction minimum elong	14335 Feb 05 23:41 14335 Feb 05 23:28	27°≈46'55 27°≈46'54		minimum elong morning rise retrograde	14341 Feb 17 22:17 14341 Feb 25 11:29 14341 Jun 02 21:52	9°¥51'37 10°¥07'36 12°¥14'36	13°16'39
conjunction	14335 Feb 05 23:41 14335 Feb 05 23:28 14335 Feb 16 13:49	27°≈46'55 27°≈46'54 28°≈08'06	11°18'51	minimum elong morning rise retrograde opposition	14341 Feb 17 22:17 14341 Feb 25 11:29 14341 Jun 02 21:52 14341 Aug 19 21:37	9°¥51'37 10°¥07'36 12°¥14'36 10°¥55'48	13°16'39 14°15'21
conjunction minimum elong morning rise	14335 Feb 05 23:41 14335 Feb 05 23:28 14335 Feb 16 13:49 14335 May 11 09:48	27°≈46'55 27°≈46'54 28°≈08'06 0°¥	11°18'51	minimum elong morning rise retrograde opposition min. Earth dist.	14341 Feb 17 22:17 14341 Feb 25 11:29 14341 Jun 02 21:52 14341 Aug 19 21:37 14341 Aug 22 01:08	9°\£51'37 10°\£07'36 12°\£14'36 10°\£55'48 10°\£52'23	13°16'39
conjunction minimum elong	14335 Feb 05 23:41 14335 Feb 05 23:28 14335 Feb 16 13:49 14335 May 11 09:48 14335 May 21 12:19	27°≈46'55 27°≈46'54 28°≈08'06 0° ₭ 0° ₭01'34	11°18'51	minimum elong morning rise retrograde opposition min. Earth dist. direct	14341 Feb 17 22:17 14341 Feb 25 11:29 14341 Jun 02 21:52 14341 Aug 19 21:37 14341 Aug 22 01:08 14341 Nov 07 00:17	9°¥51'37 10°¥07'36 12°¥14'36 10°¥55'48 10°¥52'23 9°¥35'40	13°16'39 14°15'21
conjunction minimum elong morning rise retrograde	14335 Feb 05 23:41 14335 Feb 05 23:28 14335 Feb 16 13:49 14335 May 11 09:48 14335 May 21 12:19 14335 May 31 17:31	27°≈46'55 27°≈46'54 28°≈08'06 0° ₩ 0°₩01'34 30°R≈	11°18'51 11°19'30	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set	14341 Feb 17 22:17 14341 Feb 25 11:29 14341 Jun 02 21:52 14341 Aug 19 21:37 14341 Aug 22 01:08 14341 Nov 07 00:17 14342 Feb 13 10:32	9°¥51'37 10°¥07'36 12°¥14'36 10°¥55'48 10°¥52'23 9°¥35'40 11°¥44'47	13°16'39 14°15'21 31.59634 AU
conjunction minimum elong morning rise retrograde opposition	14335 Feb 05 23:41 14335 Feb 05 23:28 14335 Feb 16 13:49 14335 May 11 09:48 14335 May 21 12:19 14335 May 31 17:31 14335 Aug 08 07:45	27°≈46'55 27°≈46'54 28°≈08'06 0° ₩ 0° ₩ 01'34 30° № 28°≈45'05	11°18'51 11°19'30 12°11'00	minimum elong morning rise retrograde opposition min. Earth dist. direct	14341 Feb 17 22:17 14341 Feb 25 11:29 14341 Jun 02 21:52 14341 Aug 19 21:37 14341 Aug 22 01:08 14341 Nov 07 00:17	9°¥51'37 10°¥07'36 12°¥14'36 10°¥55'48 10°¥52'23 9°¥35'40 11°¥44'47	13°16'39 14°15'21
conjunction minimum elong morning rise retrograde opposition min. Earth dist.	14335 Feb 05 23:41 14335 Feb 05 23:28 14335 Feb 16 13:49 14335 May 11 09:48 14335 May 21 12:19 14335 May 31 17:31 14335 Aug 08 07:45 14335 Aug 10 12:07	27°≈46'55 27°≈46'54 28°≈08'06 0° ₩ 0° ₩01'34 30° R≈ 28°≈45'05 28°≈41'45	11°18'51 11°19'30	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.	14341 Feb 17 22:17 14341 Feb 25 11:29 14341 Jun 02 21:52 14341 Aug 19 21:37 14341 Aug 22 01:08 14341 Nov 07 00:17 14342 Feb 13 10:32 14342 Feb 18 00:58	9°\\$51'37 10°\\$07'36 12°\\$14'36 10°\\$55'48 10°\\$52'23 9°\\$35'40 11°\\$44'47 11°\\$54'37	13°16'39 14°15'21 31.59634 AU 33.43164 AU
conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct	14335 Feb 05 23:41 14335 Feb 05 23:28 14335 Feb 16 13:49 14335 May 11 09:48 14335 May 21 12:19 14335 May 31 17:31 14335 Aug 08 07:45 14335 Aug 10 12:07 14335 Oct 26 20:40	27°≈46'55 27°≈46'54 28°≈08'06 0° ₩ 0° ₩01'34 30° R≈ 28°≈45'05 28°≈41'45 27°≈27'32	11°18'51 11°19'30 12°11'00	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction	14341 Feb 17 22:17 14341 Feb 25 11:29 14341 Jun 02 21:52 14341 Aug 19 21:37 14341 Aug 22 01:08 14341 Nov 07 00:17 14342 Feb 13 10:32 14342 Feb 18 00:58	9°\\$51'37 10°\\$07'36 12°\\$14'36 10°\\$55'48 10°\\$52'23 9°\\$35'40 11°\\$44'47 11°\\$59'38	13°16'39 14°15'21 31.59634 AU 33.43164 AU 13°33'22
conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set	14335 Feb 05 23:41 14335 Feb 05 23:28 14335 Feb 16 13:49 14335 May 11 09:48 14335 May 21 12:19 14335 May 31 17:31 14335 Aug 08 07:45 14335 Aug 10 12:07 14335 Oct 26 20:40 14336 Jan 29 01:09	27°≈46'55 27°≈46'54 28°≈08'06 0° ₩ 0° ₩01'34 30° ₹≈ 28°≈45'05 28°≈41'45 27°≈27'32 29°≈22'02	11°18'51 11°19'30 12°11'00 32.94384 AU	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong	14341 Feb 17 22:17 14341 Feb 25 11:29 14341 Jun 02 21:52 14341 Aug 19 21:37 14341 Aug 22 01:08 14341 Nov 07 00:17 14342 Feb 13 10:32 14342 Feb 18 00:58 14342 Feb 20 09:11 14342 Feb 20 08:58	9°\\$51'37 10°\\$07'36 12°\\$14'36 10°\\$55'48 10°\\$52'23 9°\\$35'40 11°\\$44'47 11°\\$54'37 11°\\$59'38 11°\\$59'38	13°16'39 14°15'21 31.59634 AU 33.43164 AU
conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct	14335 Feb 05 23:41 14335 Feb 05 23:28 14335 Feb 16 13:49 14335 May 11 09:48 14335 May 21 12:19 14335 May 31 17:31 14335 Aug 08 07:45 14335 Aug 10 12:07 14335 Oct 26 20:40	27°≈46'55 27°≈46'54 28°≈08'06 0° ₩ 0° ₩01'34 30° ₹≈ 28°≈45'05 28°≈41'45 27°≈27'32 29°≈22'02	11°18'51 11°19'30 12°11'00	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise	14341 Feb 17 22:17 14341 Feb 25 11:29 14341 Jun 02 21:52 14341 Aug 19 21:37 14341 Aug 22 01:08 14341 Nov 07 00:17 14342 Feb 13 10:32 14342 Feb 18 00:58 14342 Feb 20 09:11 14342 Feb 20 08:58 14342 Feb 27 07:16	9°\\$51'37 10°\\$07'36 12°\\$14'36 10°\\$55'48 10°\\$52'23 9°\\$35'40 11°\\$44'47 11°\\$54'37 11°\\$59'38 11°\\$59'37 12°\\$14'26	13°16'39 14°15'21 31.59634 AU 33.43164 AU 13°33'22
conjunction minimum elong morning rise  retrograde  opposition min. Earth dist. direct evening set max. Earth dist.	14335 Feb 05 23:41 14335 Feb 05 23:28 14335 Feb 16 13:49 14335 May 11 09:48 14335 May 21 12:19 14335 May 31 17:31 14335 Aug 08 07:45 14335 Aug 10 12:07 14335 Oct 26 20:40 14336 Jan 29 01:09 14336 Feb 05 17:58	27°≈46'55 27°≈46'54 28°≈08'06 0° ₩ 0° ₩01'34 30°R≈ 28°≈45'05 28°≈41'45 27°≈27'32 29°≈22'02 29°≈37'33	11°18'51 11°19'30 12°11'00 32.94384 AU 34.78377 AU	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde	14341 Feb 17 22:17 14341 Feb 25 11:29 14341 Jun 02 21:52 14341 Aug 19 21:37 14341 Aug 22 01:08 14341 Nov 07 00:17 14342 Feb 13 10:32 14342 Feb 18 00:58 14342 Feb 20 09:11 14342 Feb 20 08:58 14342 Feb 27 07:16 14342 Jun 05 10:21	9°\t51'37 10°\t707'36 12°\t714'36 10°\t55'48 10°\t52'23 9°\t735'40 11°\t74'47 11°\t759'38 11°\t759'37 12°\t714'26 14°\t723'58	13°16'39 14°15'21 31.59634 AU 33.43164 AU 13°33'22 13°33'47
conjunction minimum elong morning rise  retrograde  opposition min. Earth dist. direct evening set max. Earth dist.  conjunction	14335 Feb 05 23:41 14335 Feb 05 23:28 14335 Feb 16 13:49 14335 May 11 09:48 14335 May 21 12:19 14335 May 31 17:31 14335 Aug 08 07:45 14335 Aug 10 12:07 14336 Jan 29 01:09 14336 Feb 05 17:58	27°≈46'55 27°≈46'54 28°≈08'06 0° ₩ 0° ₩01'34 30° № 28°≈45'05 28°≈41'45 27°≈27'32 29°≈22'02 29°≈37'33 29°≈42'33	11°18'51 11°19'30 12°11'00 32.94384 AU	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise	14341 Feb 17 22:17 14341 Feb 25 11:29 14341 Jun 02 21:52 14341 Aug 19 21:37 14341 Aug 22 01:08 14341 Nov 07 00:17 14342 Feb 13 10:32 14342 Feb 18 00:58 14342 Feb 20 09:11 14342 Feb 20 08:58 14342 Feb 27 07:16 14342 Jun 05 10:21 14342 Aug 22 06:45	9°\text{\$51'37} 10°\text{\$7'36} 12°\text{\$14'36} 10°\text{\$55'48} 10°\text{\$52'23} 9°\text{\$35'40} 11°\text{\$44'47} 11°\text{\$54'37} 11°\text{\$59'38} 11°\text{\$59'37} 12°\text{\$14'26} 14°\text{\$23'58} 13°\text{\$404'47}	13°16'39 14°15'21 31.59634 AU 33.43164 AU 13°33'22 13°33'47 14°33'29
conjunction minimum elong morning rise  retrograde  opposition min. Earth dist. direct evening set max. Earth dist.	14335 Feb 05 23:41 14335 Feb 05 23:28 14335 Feb 16 13:49 14335 May 11 09:48 14335 May 21 12:19 14335 May 31 17:31 14335 Aug 08 07:45 14335 Aug 10 12:07 14336 Jan 29 01:09 14336 Feb 05 17:58	27°≈46'55 27°≈46'54 28°≈08'06 0° ₩ 0° ₩01'34 30° № 28°≈45'05 28°≈41'45 27°≈27'32 29°≈22'02 29°≈37'33 29°≈42'33 29°≈42'33	11°18'51 11°19'30 12°11'00 32.94384 AU 34.78377 AU 11°39'50	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist.	14341 Feb 17 22:17 14341 Feb 25 11:29 14341 Jun 02 21:52 14341 Aug 19 21:37 14341 Aug 22 01:08 14341 Nov 07 00:17 14342 Feb 13 10:32 14342 Feb 18 00:58  14342 Feb 20 09:11 14342 Feb 20 08:58 14342 Feb 27 07:16 14342 Jun 05 10:21 14342 Aug 22 06:45 14342 Aug 24 08:52	9°\text{\$51'37} 10°\text{\$7'36} 12°\text{\$14'36} 10°\text{\$55'48} 10°\text{\$52'23} 9°\text{\$35'40} 11°\text{\$44'47} 11°\text{\$54'37} 11°\text{\$59'38} 11°\text{\$59'37} 12°\text{\$14'26} 14°\text{\$23'58} 13°\text{\$04'47} 13°\text{\$01'26}	13°16'39 14°15'21 31.59634 AU 33.43164 AU 13°33'22 13°33'47
conjunction minimum elong morning rise  retrograde  opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong	14335 Feb 05 23:41 14335 Feb 05 23:28 14335 Feb 16 13:49 14335 May 11 09:48 14335 May 21 12:19 14335 May 31 17:31 14335 Aug 08 07:45 14335 Aug 10 12:07 14336 Jan 29 01:09 14336 Feb 05 17:58 14336 Feb 08 05:14 14336 Feb 08 05:00 14336 Feb 16 20:22	27°≈46'55 27°≈46'54 28°≈08'06 0° ₩ 0° ₩01'34 30° № 28°≈45'05 28°≈41'45 27°≈27'32 29°≈22'02 29°≈37'33 29°≈42'33	11°18'51 11°19'30 12°11'00 32.94384 AU 34.78377 AU 11°39'50	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct	14341 Feb 17 22:17 14341 Feb 25 11:29 14341 Jun 02 21:52 14341 Aug 19 21:37 14341 Aug 22 01:08 14341 Nov 07 00:17 14342 Feb 13 10:32 14342 Feb 18 00:58  14342 Feb 20 09:11 14342 Feb 20 08:58 14342 Feb 27 07:16 14342 Jun 05 10:21 14342 Aug 22 06:45 14342 Aug 24 08:52 14342 Nov 09 09:02	9°\text{\$51'37} 10°\text{\$7'36} 12°\text{\$14'36} 10°\text{\$55'48} 10°\text{\$52'23} 9°\text{\$35'40} 11°\text{\$44'47} 11°\text{\$59'38} 11°\text{\$59'37} 12°\text{\$14'26} 14°\text{\$23'58} 13°\text{\$04'47} 13°\text{\$01'26} 11°\text{\$44'12}	13°16'39 14°15'21 31.59634 AU 33.43164 AU 13°33'22 13°33'47 14°33'29
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conjunction minimum elong morning rise  retrograde  opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong  morning rise retrograde opposition min. Earth dist.  direct	14335 Feb 05 23:41 14335 Feb 05 23:28 14335 Feb 16 13:49 14335 May 11 09:48 14335 May 21 12:19 14335 May 31 17:31 14335 Aug 08 07:45 14335 Aug 10 12:07 14335 Oct 26 20:40 14336 Jan 29 01:09 14336 Feb 08 05:14 14336 Feb 08 05:00 14336 Feb 16 20:22 14336 Feb 16 20:22 14336 Aug 11 16:30 14336 Aug 11 16:30 14336 Sep 07 00:32 14336 Oct 27 21:02 14336 Dec 16 12:58	27°≈46'55 27°≈46'54 28°≈08'06 0° ₩ 0° ₩01'34 30° № 28°≈45'05 28°≈41'45 27°≈27'32 29°≈22'02 29°≈37'33 29°≈42'33 29°≈42'32 0° ₩ 0° ₩03'03 1° ₩58'34 0° ₩41'41 0° ₩38'19 30° № 29°≈23'41 0° ₩ 1° ₩20'25	11°18'51 11°19'30 12°11'00 32.94384 AU 34.78377 AU 11°39'50 11°40'28	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde retrograde opposition minimum elong minimum elong morning rise retrograde	14341 Feb 17 22:17 14341 Feb 25 11:29 14341 Jun 02 21:52 14341 Aug 19 21:37 14341 Aug 22 01:08 14341 Nov 07 00:17 14342 Feb 13 10:32 14342 Feb 18 00:58  14342 Feb 20 09:11 14342 Feb 20 08:58 14342 Feb 27 07:16 14342 Jun 05 10:21 14342 Aug 22 06:45 14342 Aug 24 08:52 14342 Nov 09 09:02 14343 Feb 16 13:49 14343 Feb 20 11:57  14343 Feb 22 20:40 14343 Feb 22 20:30 14343 Mar 01 03:06 14343 Jun 07 22:17	9°\times 51'37 10°\times 7'36 12°\times 14'36 10°\times 55'48 10°\times 55'48 10°\times 52'23 9°\times 35'40 11°\times 44'47 11°\times 59'38 11°\times 59'37 12°\times 14'26 14°\times 23'58 13°\times 04'47 13°\times 6'04 14°\times 404'31 14°\times 6'09'38 14°\times 90'37 14°\times 23'09 16°\times 35'18 15°\times 15'43	13°16'39  14°15'21 31.59634 AU  33.43164 AU  13°33'22 13°33'47  14°33'29 31.38466 AU  33.21975 AU 13°49'42 13°50'06
conjunction minimum elong morning rise  retrograde  opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong  morning rise retrograde opposition min. Earth dist.  direct evening set	14335 Feb 05 23:41 14335 Feb 05 23:28 14335 Feb 16 13:49 14335 May 11 09:48 14335 May 21 12:19 14335 May 31 17:31 14335 Aug 08 07:45 14335 Aug 10 12:07 14335 Oct 26 20:40 14336 Jan 29 01:09 14336 Feb 08 05:14 14336 Feb 08 05:14 14336 Feb 08 05:00 14336 Feb 16 20:22 14336 Feb 16 20:22 14336 Aug 11 16:30 14336 Aug 11 16:30 14336 Sep 07 00:32 14336 Oct 27 21:02 14336 Dec 16 12:58 14337 Jan 30 18:52	27°≈46'55 27°≈46'54 28°≈08'06 0° ₩ 0° ₩01'34 30° № 28°≈45'05 28°≈41'45 27°≈27'32 29°≈22'02 29°≈37'33 29°≈42'33 29°≈42'32 0° ₩ 0° ₩03'03 1° ₩58'34 0° ₩41'41 0° ₩38'19 30° № 29°≈23'41 0° ₩ 1° ₩20'25	11°18'51 11°19'30 12°11'00 32.94384 AU 34.78377 AU 11°39'50 11°40'28 12°33'16 32.70982 AU	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition	14341 Feb 17 22:17 14341 Feb 25 11:29 14341 Jun 02 21:52 14341 Aug 19 21:37 14341 Aug 22 01:08 14341 Nov 07 00:17 14342 Feb 13 10:32 14342 Feb 18 00:58  14342 Feb 20 09:11 14342 Feb 20 08:58 14342 Feb 27 07:16 14342 Jun 05 10:21 14342 Aug 22 06:45 14342 Aug 24 08:52 14342 Nov 09 09:02 14343 Feb 16 13:49 14343 Feb 20 11:57  14343 Feb 22 20:40 14343 Feb 22 20:30 14343 Mar 01 03:06 14343 Jun 07 22:17 14343 Aug 24 16:41	9°\t51'37 10°\t70'36 12°\t71'36 10°\t75'48 10°\t75'48 10°\t75'48 10°\t75'49 11°\t75'43 11°\t75'37 11°\t75'38 11°\t75'37 12°\t71'26 14°\t75'37 12°\t71'26 14°\t75'37 13°\t75'04 14°\t75'37 15°\t75'43 15°\t75'43 15°\t75'44	13°16'39  14°15'21 31.59634 AU  33.43164 AU  13°33'22 13°33'47  14°33'29 31.38466 AU  33.21975 AU 13°49'42 13°50'06
conjunction minimum elong morning rise  retrograde  opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong  morning rise retrograde opposition min. Earth dist.  direct evening set	14335 Feb 05 23:41 14335 Feb 05 23:28 14335 Feb 16 13:49 14335 May 11 09:48 14335 May 21 12:19 14335 May 31 17:31 14335 Aug 08 07:45 14335 Aug 10 12:07 14335 Oct 26 20:40 14336 Jan 29 01:09 14336 Feb 08 05:14 14336 Feb 08 05:14 14336 Feb 08 05:00 14336 Feb 16 20:22 14336 Feb 16 20:22 14336 Aug 11 16:30 14336 Aug 11 16:30 14336 Sep 07 00:32 14336 Oct 27 21:02 14336 Dec 16 12:58 14337 Jan 30 18:52	27°≈46'55 27°≈46'54 28°≈08'06 0°	11°18'51 11°19'30 12°11'00 32.94384 AU 34.78377 AU 11°39'50 11°40'28 12°33'16 32.70982 AU	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition minimum elong morning rise retrograde opposition minimum elong morning rise retrograde opposition min. Earth dist.	14341 Feb 17 22:17 14341 Feb 25 11:29 14341 Jun 02 21:52 14341 Aug 19 21:37 14341 Aug 22 01:08 14341 Nov 07 00:17 14342 Feb 13 10:32 14342 Feb 18 00:58  14342 Feb 20 09:11 14342 Feb 20 08:58 14342 Feb 27 07:16 14342 Jun 05 10:21 14342 Aug 22 06:45 14342 Aug 24 08:52 14342 Nov 09 09:02 14343 Feb 16 13:49 14343 Feb 20 11:57  14343 Feb 22 20:40 14343 Feb 22 20:30 14343 Mar 01 03:06 14343 Jun 07 22:17 14343 Aug 24 16:41 14343 Aug 26 19:07	9°\t51'37 10°\t736 12°\t736 12°\t736 10°\t736 10°\t736 10°\t736 10°\t736 10°\t736 10°\t736 10°\t736 10°\t736 11°\t736 13°\t736 13	13°16'39  14°15'21 31.59634 AU  33.43164 AU  13°33'22 13°33'47  14°33'29 31.38466 AU  33.21975 AU 13°49'42 13°50'06  14°50'42 31.17773 AU
conjunction minimum elong morning rise  retrograde  opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong  morning rise retrograde opposition min. Earth dist.  direct evening set max. Earth dist.  conjunction min. Earth dist.	14335 Feb 05 23:41 14335 Feb 05 23:28 14335 Feb 16 13:49 14335 May 11 09:48 14335 May 21 12:19 14335 May 31 17:31 14335 Aug 08 07:45 14335 Oct 26 20:40 14336 Jan 29 01:09 14336 Feb 08 05:14 14336 Feb 08 05:00 14336 Feb 16 20:22 14336 Feb 18 08:54 14336 May 22 19:51 14336 Aug 09 12:01 14336 Aug 09 12:01 14336 Aug 11 16:30 14336 Sep 07 00:32 14336 Oct 27 21:02 14336 Dec 16 12:58 14337 Jan 30 18:52 14337 Feb 09 11:51 14337 Feb 09 11:51	27°≈46'55 27°≈46'54 28°≈08'06 0°	11°18'51 11°19'30 12°11'00 32.94384 AU 34.78377 AU 11°39'50 11°40'28 12°33'16 32.70982 AU	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde opposition minimum elong morning rise retrograde opposition minimum elong morning rise retrograde opposition min. Earth dist. direct	14341 Feb 17 22:17 14341 Feb 25 11:29 14341 Jun 02 21:52 14341 Aug 19 21:37 14341 Aug 22 01:08 14341 Nov 07 00:17 14342 Feb 13 10:32 14342 Feb 18 00:58  14342 Feb 20 09:11 14342 Feb 20 08:58 14342 Feb 27 07:16 14342 Jun 05 10:21 14342 Aug 22 06:45 14342 Aug 24 08:52 14342 Nov 09 09:02 14343 Feb 16 13:49 14343 Feb 20 11:57  14343 Feb 22 20:40 14343 Feb 22 20:30 14343 Mar 01 03:06 14343 Jun 07 22:17 14343 Aug 24 16:41 14343 Aug 26 19:07 14343 Nov 11 15:49	9°\t51'37 10°\t736 12°\t736 12°\t736 10°\t736 10°\t736 10°\t736 10°\t736 10°\t736 10°\t736 10°\t736 10°\t736 11°\t736 13°\t736 13	13°16'39  14°15'21 31.59634 AU  33.43164 AU  13°33'22 13°33'47  14°33'29 31.38466 AU  33.21975 AU 13°49'42 13°50'06
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conjunction minimum elong morning rise  retrograde  opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong  morning rise retrograde opposition min. Earth dist.  direct evening set max. Earth dist.  conjunction min. Earth dist.  conjunction minimum elong morning rise retrograde opposition minimum elong morning rise retrograde opposition	14335 Feb 05 23:41 14335 Feb 05 23:28 14335 Feb 16 13:49 14335 May 11 09:48 14335 May 21 12:19 14335 May 31 17:31 14335 Aug 08 07:45 14335 Aug 10 12:07 14335 Oct 26 20:40 14336 Jan 29 01:09 14336 Feb 08 05:14 14336 Feb 08 05:14 14336 Feb 16 20:22 14336 Feb 18 08:54 14336 May 22 19:51 14336 Aug 09 12:01 14336 Aug 11 16:30 14336 Aug 11 16:30 14336 Dec 16 12:58 14337 Jan 30 18:52 14337 Feb 09 11:51 14337 Feb 09 11:57 14337 Feb 09 11:51 14337 Feb 09 11:39 14337 May 25 02:51 14337 May 25 02:51 14337 Aug 11 17:01	27°≈46'55 27°≈46'54 28°≈08'06 0°	11°18'51 11°19'30  12°11'00 32.94384 AU  34.78377 AU 11°39'50 11°40'28  12°33'16 32.70982 AU  34.54912 AU 12°00'19 12°00'54  12°55'00	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist.  conjunction minimum elong morning rise retrograde opposition minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction min. Earth dist.	14341 Feb 17 22:17 14341 Feb 25 11:29 14341 Jun 02 21:52 14341 Aug 19 21:37 14341 Aug 22 01:08 14341 Nov 07 00:17 14342 Feb 13 10:32 14342 Feb 18 00:58 14342 Feb 20 09:11 14342 Feb 20 08:58 14342 Feb 27 07:16 14342 Jun 05 10:21 14342 Aug 24 08:52 14342 Aug 24 08:52 14342 Aug 24 08:52 14342 Feb 20 11:57 14343 Feb 20 11:57 14343 Feb 22 20:40 14343 Feb 22 20:40 14343 Feb 22 20:30 14344 Feb 22 20:30 14344 Feb 25 09:03 14344 Feb 25 09:03 14344 Feb 25 09:03 14344 Feb 25 09:03	9°\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	13°16'39  14°15'21 31.59634 AU  33.43164 AU  13°33'22 13°33'47  14°33'29 31.38466 AU  33.21975 AU  13°49'42 13°50'06  14°50'42 31.17773 AU  33.01301 AU
conjunction minimum elong morning rise  retrograde  opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong  morning rise retrograde opposition min. Earth dist.  direct evening set max. Earth dist.  conjunction min. Earth dist.	14335 Feb 05 23:41 14335 Feb 05 23:28 14335 Feb 16 13:49 14335 May 11 09:48 14335 May 21 12:19 14335 May 31 17:31 14335 Aug 08 07:45 14335 Aug 10 12:07 14335 Oct 26 20:40 14336 Jan 29 01:09 14336 Feb 08 05:14 14336 Feb 08 05:14 14336 Feb 16 20:22 14336 Feb 18 08:54 14336 May 22 19:51 14336 Aug 09 12:01 14336 Aug 11 16:30 14336 Aug 11 16:30 14336 Sep 07 00:32 14336 Oct 27 21:02 14336 Dec 16 12:58 14337 Feb 07 01:57 14337 Feb 09 11:51 14337 Feb 09 11:51 14337 Feb 09 11:51 14337 Feb 19 04:10 14337 May 25 02:51	27°≈46'55 27°≈46'54 28°≈08'06 0°	11°18'51 11°19'30 12°11'00 32.94384 AU 34.78377 AU 11°39'50 11°40'28 12°33'16 32.70982 AU 34.54912 AU 12°00'19 12°00'54	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. direct evening set max. Earth dist.	14341 Feb 17 22:17 14341 Feb 25 11:29 14341 Jun 02 21:52 14341 Aug 19 21:37 14341 Aug 22 01:08 14341 Nov 07 00:17 14342 Feb 13 10:32 14342 Feb 18 00:58 14342 Feb 20 09:11 14342 Feb 20 08:58 14342 Feb 27 07:16 14342 Jun 05 10:21 14342 Aug 22 06:45 14342 Aug 24 08:52 14342 Nov 09 09:02 14343 Feb 16 13:49 14343 Feb 20 11:57 14343 Feb 22 20:40 14343 Feb 22 20:40 14343 Feb 22 20:30 14343 Mar 01 03:06 14343 Jun 07 22:17 14343 Aug 24 16:41 14343 Aug 24 16:41 14343 Aug 26 19:07 14343 Nov 11 15:49 14344 Feb 19 19:08 14344 Feb 23 02:09	9°\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	13°16'39  14°15'21 31.59634 AU  33.43164 AU  13°33'22 13°33'47  14°33'29 31.38466 AU  33.21975 AU  13°49'42 13°50'06  14°50'42 31.17773 AU  33.01301 AU  14°05'06

Tranetary Trient	onicha of Fiuto Iron	11 14100 till	lough 14002 (	O 1), Astrodictist	AG 10-100-2023 14	.23, pa	gc 17
retrograde	14344 Jun 09 09:45	18° <b>¥</b> 48'32		retrograde	14351 Jun 27 04:08	5° <b>Y</b> 12'44	
opposition	14344 Aug 26 03:24	17° <b>¥</b> 28'34	15°06'54	opposition	14351 Sep 12 03:46	3°Y50'37	16°24'33
min. Earth dist.	14344 Aug 28 04:32		30.97609 AU	min. Earth dist.	14351 Sep 12 03:10		29.77107 AU
direct	14344 Nov 13 02:09	16° <b>¥</b> 07'06	30.97009110	direct	14351 Nov 29 20:45	2°Υ26'48	27.77107110
evening set	14345 Feb 22 02:38	18° <b>¥</b> 24'50		max. Earth dist.	14352 Mar 13 17:10		31.62322 AU
max. Earth dist.	14345 Feb 24 15:03		32.81211 AU	man. Barm dist.	1.502 15 17.10	. , . , . ,	31.02322110
man. Darun dist.	1.5 16 1 60 21 16.05	10 7(3021	32.01211110	conjunction	14352 Mar 15 13:54	5° <b>Y</b> ′04'04	15°25'46
conjunction	14345 Feb 26 22:02	18° <b>)</b> 35′23	14°19'31	minimum elong	14352 Mar 15 13:54	5° <b>Y</b> ′04'04	15°25'47
minimum elong	14345 Feb 26 21:54	18° <b>)</b> ₹35'22	14°19'50	retrograde	14352 Jun 28 22:11	7° <b>Υ</b> 40'22	
morning rise	14345 Mar 03 17:07	18° <b>)</b> 45′55		opposition	14352 Sep 13 20:32	6° <b>Ƴ</b> 18'01	16°29'42
retrograde	14345 Jun 11 23:54	21° <b>)</b> €03'39		min. Earth dist.	14352 Sep 15 12:29		29.63065 AU
opposition	14345 Aug 28 14:48		15°22'00	direct	14352 Dec 01 11:41	4° <b>Y</b> 53'56	
min. Earth dist.	14345 Aug 30 15:14	19° <b>)</b> 40′01	30.78070 AU	max. Earth dist.	14353 Mar 16 14:33		31.48585 AU
direct	14345 Nov 15 11:07	18° <b>¥</b> 21'25					
evening set	14346 Feb 25 13:04	20° <b>)</b> 42′21		conjunction	14353 Mar 18 08:45	7° <b>Ƴ</b> 32'15	15°29'33
max. Earth dist.	14346 Feb 27 06:58		32.61787 AU	minimum elong	14353 Mar 18 08:49	7° <b>Y</b> 32'16	15°29'30
				retrograde	14353 Jul 01 17:17	10° <b>Y</b> ′09'26	
conjunction	14346 Mar 01 11:53	20° <b>¥</b> 51'05	14°32'51	opposition	14353 Sep 16 13:51	8° <b>Y</b> 46'53	16°33'11
minimum elong	14346 Mar 01 11:44	20° <b>)</b> 51'04	14°33'07	min. Earth dist.	14353 Sep 18 03:49	8° <b>Υ</b> 44'13	
morning rise	14346 Mar 05 10:22	20° <b>)</b> 59'49	1.330,	direct	14353 Dec 04 05:30	7° <b>Υ</b> 22'33	29.19770110
retrograde	14346 Jun 14 13:13	23° <b>¥</b> 20'37		max. Earth dist.	14354 Mar 19 10:10		31.35650 AU
opposition	14346 Aug 31 03:10	21° <b>H</b> 59'54	15°35'54	max. Earth dist.	113311111111111111111111111111111111111	7 1 37 13	31.33030710
min. Earth dist.	14346 Sep 02 02:34		30.59224 AU	conjunction	14354 Mar 21 04:00	10° <b>Ƴ</b> 01'49	15°31'46
direct	14346 Nov 17 21:20	20°\(\frac{1}{30}\)	30.37224 AU	minimum elong	14354 Mar 21 04:04	10° <b>Υ</b> 01'50	15°31'42
evening set	14347 Mar 01 03:42	23°\(\frac{1}{3}\)7'\(\frac{1}\)7'\(\frac{1}\)7'\(\frac{1}{3}\)7'\(\frac{1}{3}\)7'\(1		retrograde	14354 Jul 04 13:18	12° <b>Υ</b> 39'49	13 31 42
max. Earth dist.	14347 Mar 01 03:42		32.43129 AU	opposition	14354 Sep 19 07:46	11° <b>Υ</b> 17'02	16037158
max. Earth dist.	1434/ Widi 01 22.13	23 /(0340	32.43129 AU	min. Earth dist.	14354 Sep 20 20:40		29.37292 AU
conjunction	14347 Mar 04 02:12	23° <b>∺</b> 08'38	14°45'00	direct	14354 Dec 06 21:34	9° <b>Υ</b> 52'27	29.31292 AU
minimum elong	14347 Mar 04 02:12	23°\(\)\(\)\(\)\(\)\(\)\(\)	14°45'14	max. Earth dist.	14355 Mar 22 08:47		31.23554 AU
morning rise	14347 Mar 07 00:29	23° <del>X</del> 15'11	14 43 14	max. Earth dist.	14333 Wai 22 08.47	12 1 20 43	31.23334 AO
retrograde	14347 Jun 17 05:33	25°\(\frac{1311}{39'24}\)		conjunction	14355 Mar 23 23:48	12° <b>Y</b> 32'35	15°32'22
opposition	14347 Sep 02 16:10	23 <b>X</b> 39 24 24° <b>X</b> 18'21	15°48'30	minimum elong	14355 Mar 23 23:55	12 <b>γ</b> 32 33	15°32'15
min. Earth dist.	14347 Sep 02 10:10 14347 Sep 04 13:49		30.41161 AU	retrograde	14355 Jul 07 07:02	12 <b>γ</b> 32 33 15° <b>Υ</b> 11'17	13 32 13
direct	14347 Sep 04 13:49 14347 Nov 20 10:21	24 <b>X</b> 15 15 22° <b>X</b> 55'41	30.41101 AU	opposition	14355 Sep 22 02:13	13° <b>Y</b> 48'18	16°35'00
		25°\(\frac{1}{25}\)24'39		min. Earth dist.	_		29.25626 AU
evening set	14348 Mar 04 05:09		32.25279 AU	direct	14355 Sep 23 13:31 14355 Dec 09 16:02	13° γ 43 48 12° <b>Υ</b> 23'29	29.23020 AU
max. Earth dist.	14348 Mar 03 15:15	23 <b>X</b> 2320	32.23219 AU	max. Earth dist.	14356 Mar 24 05:43		31.12343 AU
agniumation	14348 Mar 05 17:34	25° <b>¥</b> 28'03	14°55'54	max. Earm dist.	14330 Mai 24 03.43	13 1 00 37	31.12343 AU
conjunction minimum elong	14348 Mar 05 17:28	25°\(\frac{7}{28}\)'03	14° 56'06	conjunction	14356 Mar 25 19:57	15° <b>Y</b> ′04'23	15°31'20
morning rise	14348 Mar 07 05:47	25°\(\frac{1}{2}\)31'27	14 30 00	minimum elong	14356 Mar 25 20:05	15 <b>Υ</b> 04 23	15°31'10
retrograde	14348 Jun 18 20:46	28°\(\frac{1}{3127}\)		retrograde	14356 Jul 09 02:52	13 <b>γ</b> 04 23 17° <b>γ</b> 43'42	13 31 10
opposition		26°\(\cdot\)38'39	15050145	•		16° <b>Υ</b> 20'32	16022112
	14348 Sep 04 05:58			opposition	14356 Sep 23 20:55		16°33'13 29.14854 AU
min. Earth dist.	14348 Sep 06 03:03 14348 Nov 21 23:29	26 K3333 25°¥15'40	30.23911 AU	min. Earth dist. direct	14356 Sep 25 06:25 14356 Dec 11 10:40	16 γ 1809 14° <b>Υ</b> 55'29	29.14634 AU
direct	14349 Mar 06 08:57		32.08296 AU		14357 Mar 27 05:18		31.02069 AU
max. Earth dist.	14349 Mai 00 08.37	21 <b>X</b> 4443	32.08290 AU	max. Earth dist.	1433/ Wal 2/ 03.18	1/ 13334	31.02009 AU
conjunction	14349 Mar 08 09:36	27° <b>¥</b> 49'20	15°05'29	conjunction	14357 Mar 28 16:35	17° <b>Ƴ</b> 37'03	15°28'35
minimum elong	14349 Mar 08 09:33	27°\(\dagger49'20\)	15°05'38	minimum elong	14357 Mar 28 16:35	17 <b>Υ</b> 37 03	15°28'22
minimum ciong	14349 May 16 01:05	27 <b>γ</b> (4920	15 05 56	retrograde	14357 Jul 11 21:29	20°Υ16'54	13 26 22
retrograde	14349 Jun 21 14:53	0° <b>Υ</b> '22'28		opposition	14357 Sep 26 16:16	18° <b>Y</b> 53'34	16°29'36
renograde	14349 Jul 28 23:24	0 1 22 28 30°R <b>∺</b>		min. Earth dist.	-		29.05021 AU
annagition		30 KA 29°₩00'50	16°09'32	direct	14357 Sep 28 00:27 14357 Dec 14 05:27	18 γ 31 10 17° <b>Υ</b> 28'20	29.03021 AU
opposition min. Earth dist.	14349 Sep 06 20:29 14349 Sep 08 15:13		30.07504 AU	max. Earth dist.	14357 Dec 14 03.27 14358 Mar 30 03:27		30.92818 AU
	=	28 <b>H</b> 3733	30.07304 AU	max. Earth dist.	14536 Mai 30 03.27	20 10/0/	30.92818 AU
direct	14349 Nov 24 14:08	2/°π3/32 0°Υ		:	14250 Mar. 21, 12.07	20° <b>Y</b> 10'27	15924107
E 41 E 4	14350 Mar 05 14:52		21 02154 ATT	conjunction	14358 Mar 31 13:07		15°24'06
max. Earth dist.	14350 Mar 09 02:44	0 1 0 / 58	31.92154 AU	minimum elong	14358 Mar 31 13:19	20°Υ10'28	15°23'51
	14250 34 11 02 12	000010100	15012141	retrograde	14358 Jul 14 17:53	22°Y50'45	1.692.410.4
conjunction	14350 Mar 11 02:13	0°Υ12'29	15°13'41	opposition	14358 Sep 29 11:47	21° <b>Υ</b> 27'15	16°24'04
minimum elong	14350 Mar 11 02:10	0°Υ12'28	15°13'48	min. Earth dist.	14358 Sep 30 17:08		28.96222 AU
retrograde	14350 Jun 24 08:41	2° <b>Y</b> 46'44	17017140	direct	14358 Dec 17 01:32	20° <b>Υ</b> 01'51	20.04640 137
opposition	14350 Sep 09 11:53	1° <b>Υ</b> 24'51	16°17'49	max. Earth dist.	14359 Apr 02 03:20	22 <b>~Y</b> ′41′24	30.84648 AU
min. Earth dist.	14350 Sep 11 06:19		29.91913 AU		14050	22222	1.501
direct	14350 Nov 27 03:53	0° <b>Υ</b> 01'17	A1 #6015 :==	conjunction	14359 Apr 03 10:08	22° <b>Y</b> 44'27	15°17'51
max. Earth dist.	14351 Mar 11 22:31	2° <b>'Y'</b> 33'06	31.76845 AU	minimum elong	14359 Apr 03 10:22	22° <b>Y</b> 44'29	15°17'33
_				retrograde	14359 Jul 17 12:37	25° <b>Y</b> 25′06	
conjunction	14351 Mar 13 19:44	2°Υ37'26	15°20'27	opposition	14359 Oct 02 07:37	24°Υ01'29	16°16'37
minimum elong	14351 Mar 13 19:44	2° <b>Y</b> 37'26	15°20'31	min. Earth dist.	14359 Oct 03 11:39	23° <b>'Y'</b> 59'29	28.88516 AU

page 20

Ji	14373 Jan 22 07:44	25° <b>8</b> 58'16			14270 M 24 07-50	13° <b>Ⅱ</b> 01'13	7940120
direct				minimum elong	14379 May 24 07:59		
evening set	14373 Apr 28 10:18	28° <b>8</b> 11'41		max. Earth dist.	14379 May 25 03:03		31.55823 AU
				morning rise	14379 Jun 06 17:41	13° <b>Ⅲ</b> 31'25	
conjunction	14373 May 09 07:47	28° <b>8</b> 37'05	10°56'09	retrograde	14379 Sep 05 02:35	15° <b>Ⅱ</b> 31'12	
minimum elong	14373 May 09 08:11	28° <b>8</b> 37'07	10°55'18	opposition	14379 Nov 21 23:09	14° <b>Ⅱ</b> 10'41	
max. Earth dist.	14373 May 09 12:28	_	30.88673 AU	min. Earth dist.	14379 Nov 21 05:11		29.64638 AU
morning rise	14373 May 20 05:05	29° <b>8</b> 02'29		direct	14380 Feb 09 18:49	12° <b>Ⅱ</b> 48'31	
	14373 Jun 15 13:57	$\Pi$ $^{\circ}0$		evening set	14380 May 12 02:52	14° <b>∏</b> 49'15	
retrograde	14373 Aug 21 13:10	1° <b>Ⅱ</b> 13′04					
	14373 Nov 01 07:36	30°R₩		conjunction	14380 May 25 21:20	15° <b>Ⅲ</b> 20′03	7°17'24
opposition	14373 Nov 06 21:36	29° <b>8</b> 50'43	11°26'00	minimum elong	14380 May 25 21:38	15° <b>Ⅲ</b> 20′04	7°16'25
min. Earth dist.	14373 Nov 06 16:03	29° <b>8</b> 51'07	28.96511 AU	max. Earth dist.	14380 May 26 17:32	15° <b>Ⅲ</b> 21'57	31.70106 AU
direct	14374 Jan 25 05:28	28° <b>8</b> 26'35		morning rise	14380 Jun 08 15:02	15° <b>Ⅱ</b> 50'46	
	14374 Apr 13 12:36	0°II		retrograde	14380 Sep 06 15:31	17° <b>I</b> I48'57	
evening set	14374 Apr 30 15:33	0° <b>Д</b> 38'03		opposition	14380 Nov 23 13:19	16° <b>Ⅱ</b> 28'44	7°29'02
evening set	145/4 Apr 30 13.33	0 11 30 03		min. Earth dist.	14380 Nov 22 16:29		29.79025 AU
agniumation	14274 May 12 01:00	1° <b>Ⅱ</b> 04'30	10°27'14	direct		15° <b>I</b> I06'55	29.19023 AU
conjunction	14374 May 12 01:08				14381 Feb 11 10:29		
minimum elong	14374 May 12 01:34	1° <b>Ⅱ</b> 04'32	10°26'22	evening set	14381 May 14 08:53	17° <b>Ⅱ</b> 06'01	
max. Earth dist.	14374 May 12 08:26		30.97300 AU				
morning rise	14374 May 23 10:32	1° <b>Ⅱ</b> 30′56		conjunction	14381 May 28 10:27	17° <b>∏</b> 37'14	
retrograde	14374 Aug 24 05:00	3° <b>Ⅱ</b> 39'36		minimum elong	14381 May 28 10:43	17° <b>Ⅱ</b> 37'16	
opposition	14374 Nov 09 15:15	2° <b>Ⅱ</b> 17'30	10°54'28	max. Earth dist.	14381 May 29 09:19	17° <b>Ⅲ</b> 39'22	31.85130 AU
min. Earth dist.	14374 Nov 09 07:41	2° <b>Ⅱ</b> 18′01	29.05377 AU	morning rise	14381 Jun 11 10:58	18° <b>∏</b> 08′24	
direct	14375 Jan 28 00:08	0° <b>Ⅱ</b> 53'39		retrograde	14381 Sep 09 00:23	20° <b>Ⅲ</b> 05′00	
evening set	14375 May 02 21:09	3° <b>Ⅲ</b> 03′13		min. Earth dist.	14381 Nov 25 05:20	18° <b>Ⅱ</b> 46'33	29.94169 AU
	-			opposition	14381 Nov 26 03:00	18° <b>Ⅱ</b> 45′06	6°53'05
conjunction	14375 May 14 18:07	3° <b>Ⅱ</b> 30'36	9°57'21	direct	14382 Feb 14 01:00	17° <b>Ⅱ</b> 23'36	
minimum elong	14375 May 14 18:31	3° <b>Ⅱ</b> 30'39		evening set	14382 May 16 14:48	19° <b>Ⅲ</b> 21'06	
max. Earth dist.	14375 May 15 04:26		31.07064 AU	evening sec	1 1302 Way 10 11.10	17 121 00	
morning rise	14375 May 26 14:37	3° <b>П</b> 57'58	31.07004710	conjunction	14382 May 30 22:37	19° <b>Ⅱ</b> 52'41	6°10'16
•	14375 May 26 14:37	6° <b>Ⅱ</b> 04'45		minimum elong	•	19° <b>I</b> 52'43	6°09'15
retrograde	C		10021150	· ·	14382 May 30 22:53		32.00895 AU
opposition	14375 Nov 12 08:11	4° <b>Ⅱ</b> 42'57		max. Earth dist.	14382 May 31 22:48		32.00895 AU
min. Earth dist.	14375 Nov 11 21:58		29.15329 AU	morning rise	14382 Jun 14 05:26	20° <b>Ⅱ</b> 24'12	
direct	14376 Jan 30 19:59	3° <b>Ⅲ</b> 19′25		retrograde	14382 Sep 11 10:14	22° <b>Ⅱ</b> 19'17	
evening set	14376 May 04 02:58	5° <b>Ⅱ</b> 27'08		opposition	14382 Nov 28 15:47	20° <b>∏</b> 59'41	6°16'54
				min. Earth dist.	14382 Nov 27 15:24		30.10056 AU
conjunction	14376 May 16 10:26	5° <b>Ⅱ</b> 55'23	9°26'38	direct	14383 Feb 16 16:39	19° <b>Ⅱ</b> 38'31	
minimum elong	14376 May 16 10:49	5° <b>Ⅱ</b> 55'25	9°25'44	evening set	14383 May 18 20:42	21° <b>Ⅱ</b> 34′28	
max. Earth dist.	14376 May 16 22:25	5° <b>Ⅱ</b> 56'32	31.17868 AU				
morning rise	14376 May 28 17:33	6° <b>Ⅲ</b> 23'36		conjunction	14383 Jun 02 10:09	22° <b>Ⅲ</b> 06′21	5°36'21
retrograde	14376 Aug 28 12:07	8° <b>Ⅲ</b> 28'33		minimum elong	14383 Jun 02 10:23	22° <b>Ⅱ</b> 06′22	5°35'20
opposition	14376 Nov 14 00:47	7° <b>Ⅱ</b> 07'04	9°48'38	max. Earth dist.	14383 Jun 03 12:31	22° <b>Ⅱ</b> 08'46	32.17382 AU
min. Earth dist.	14376 Nov 13 12:18	7° <b>Ⅱ</b> 07'55	29.26312 AU	morning rise	14383 Jun 16 22:32	22° <b>I</b> I38'07	
direct	14377 Feb 01 13:58	5° <b>Ⅱ</b> 43'52		retrograde	14383 Sep 13 19:16	24° <b>Ⅲ</b> 31'45	
evening set	14377 May 06 08:40	7° <b>Ⅱ</b> 49'46		min. Earth dist.	14383 Nov 30 02:13		30.26717 AU
evening sec	1 15 / / May 00 00.10	, 11, 10		opposition	14383 Dec 01 03:55	23° <b>I</b> I12'27	
conjunction	14377 May 19 02:06	8° <b>Ⅱ</b> 18'47	0055111	direct	14384 Feb 19 04:40	23 <b>H</b> 1227 21° <b>H</b> 51'36	3 40 33
minimum elong	•	8° <b>П</b> 18'49	8°54'16			23° <b>II</b> 46'05	
Č	14377 May 19 02:28			evening set	14384 May 20 02:26	23 1140 03	
max. Earth dist.	14377 May 19 17:21		31.29646 AU		1,120,1 7 02 20 51	• 40 T 10110	5000110
morning rise	14377 May 31 18:47	8° <b>Ⅱ</b> 47'45		conjunction	14384 Jun 03 20:54	24° <b>Ⅱ</b> 18′10	
retrograde	14377 Aug 31 01:40	10° <b>I</b> I50'56		minimum elong	14384 Jun 03 21:07	24° <b>Ⅱ</b> 18'11	5°01'17
opposition	14377 Nov 16 16:53	9° <b>Ⅱ</b> 29'46		max. Earth dist.	14384 Jun 05 01:25		32.34646 AU
min. Earth dist.	14377 Nov 16 02:39	9° <b>Ⅱ</b> 30'44	29.38226 AU	morning rise	14384 Jun 18 14:08	24° <b>Ⅱ</b> 50′10	
direct	14378 Feb 04 09:06	8° <b>Ⅱ</b> 06'55		retrograde	14384 Sep 15 03:58	26° <b>Ⅱ</b> 42'23	
evening set	14378 May 08 14:44	10° <b>Ⅱ</b> 11′03		min. Earth dist.	14384 Dec 01 11:19	25° <b>Ⅱ</b> 25'14	30.44173 AU
				opposition	14384 Dec 02 15:25	25° <b>Ⅲ</b> 23′23	5°04'06
conjunction	14378 May 21 17:07	10° <b>Ⅱ</b> 40'44	8°23'06	direct	14385 Feb 20 19:21	24° <b>Ⅱ</b> 02'54	
minimum elong	14378 May 21 17:28	10° <b>Ⅱ</b> 40'46	8°22'09	evening set	14385 May 22 07:59	25° <b>Ⅱ</b> 55'57	
max. Earth dist.	14378 May 22 09:29		31.42318 AU				
morning rise	14378 Jun 03 18:59	11° <b>II</b> 10'23	512510710	conjunction	14385 Jun 06 06:40	26° <b>Ⅱ</b> 28'11	4°28'13
retrograde	14378 Sep 02 15:37	13° <b>Ⅱ</b> 10′23		minimum elong	14385 Jun 06 06:51	26° <b>I</b> I28'12	
•	•		9920152	•			
opposition	14378 Nov 19 08:12	11° <b>Ⅱ</b> 51′00		max. Earth dist.	14385 Jun 07 12:48		32.52694 AU
min. Earth dist.	14378 Nov 18 15:17		29.51028 AU	morning rise	14385 Jun 21 04:19	27° <b>I</b> 100'19	
direct	14379 Feb 07 01:55	10° <b>Ⅱ</b> 28′29		retrograde	14385 Sep 17 13:58	28° <b>I</b> [51'13	20.66.62
evening set	14379 May 10 20:43	12° <b>Ⅱ</b> 30'54		min. Earth dist.	14385 Dec 03 19:59		30.62463 AU
				opposition	14385 Dec 05 02:16	27° <b>Ⅱ</b> 32'33	4°27'40
conjunction	14379 May 24 07:40	13° <b>Ⅱ</b> 01'11	7°50'29	direct	14386 Feb 23 07:49	26° <b>Ⅱ</b> 12'25	

evening set	14386 May 24 13:24	28° <b>Ⅱ</b> 04'07		max. Earth dist.	14392 Jun 22 02:15	10° <b>©</b> 55'29 33.9	7617 AU
				morning rise	14392 Jul 05 20:52	11° <b>©</b> 23'39	
conjunction	14386 Jun 08 15:59	28° <b>Ⅲ</b> 36′28	3°54'07	retrograde	14392 Oct 01 03:34	13° <b>©</b> 06'56	
minimum elong	14386 Jun 08 16:09	28° <b>Ⅱ</b> 36′28	3°53'04	min. Earth dist.	14392 Dec 17 18:47	11°553'20 32.0	8653 AU
max. Earth dist.	14386 Jun 10 00:52		32.71550 AU	opposition	14392 Dec 19 11:26	11°950'48 0°1	8'13
morning rise	14386 Jun 23 17:10	29° <b>Ⅱ</b> 08'41		direct	14393 Mar 10 04:35	10° <b>©</b> 33'25	
	14386 Jul 19 23:39	$0$ $\infty$		evening set	14393 Jun 07 00:38	12° <b>©</b> 17'18	
retrograde	14386 Sep 19 21:14	0°\$58'19					
	14386 Nov 24 12:13	30°RⅡ		conjunction	14393 Jun 22 13:41		0'57
min. Earth dist.	14386 Dec 06 04:31		30.81541 AU	minimum elong	14393 Jun 22 13:41		0'05
opposition	14386 Dec 07 12:16	29° <b>Ⅱ</b> 40′00	3°51'17	behind sun begin	14393 Jun 22 07:39	12°5548'23	
direct	14387 Feb 25 21:13	28° <b>Ⅱ</b> 20'16		behind sun end	14393 Jun 22 19:44	12°5649'21	0004 411
	14387 May 21 14:41	0.0210143		max. Earth dist.	14393 Jun 24 08:06	12°S52'29 34.2	0084 AU
evening set	14387 May 26 18:54	0° <b>©</b> 10′42		desc. node	14393 Jul 03 13:11	13° <b>©</b> 11'16 13° <b>©</b> 20'19	
agniumation	14387 Jun 11 00:28	0°543'04	3°20'06	morning rise	14393 Jul 08 01:18 14393 Oct 03 06:07	15° <b>©</b> 02'43	
conjunction minimum elong	14387 Jun 11 00:28	0°943'04	3°19'03	retrograde min. Earth dist.	14393 Oct 03 06.07	13° <b>©</b> 49'30 32.3	1245 ATT
max. Earth dist.	14387 Jun 12 10:15		32.91151 AU	opposition	14393 Dec 19 23.31 14393 Dec 21 17:05	13° <b>9</b> 46'55 -0°1	
morning rise	14387 Jun 26 04:56	1°9515'20	32.91131 AU	direct	14394 Mar 12 13:08	13 \$346 33 -0 1 12°\$29'54	3 33
retrograde	14387 Sep 22 05:11	3°903'45		evening set	14394 Jun 09 05:07	14° <b>©</b> 12'50	
min. Earth dist.	14387 Dec 08 11:16	1° <b>©</b> 48'01	31.01365 AU	evening set	14394 Juli 09 03.07	14 3 12 30	
opposition	14387 Dec 09 21:40	1°545'48	3°15'02	conjunction	14394 Jun 24 17:33	14° <b>5</b> 44'07 -0°3	0'58
direct	14388 Feb 28 07:41	0°\$26'28	3 13 02	minimum elong	14394 Jun 24 17:31	14°9544'07 0°3	
evening set	14388 May 28 00:03	2° <b>©</b> 15'41		max. Earth dist.	14394 Jun 26 12:08	14°9947'43 34.4	
evening set	14300 Way 20 00.03	2 31341		morning rise	14394 Jul 10 04:51	15° <b>©</b> 15'18	2017 110
conjunction	14388 Jun 12 08:19	2°5548'02	2°46'13	retrograde	14394 Oct 05 10:26	16° <b>©</b> 56'51	
minimum elong	14388 Jun 12 08:26	2°548'03	2°45'10	min. Earth dist.	14394 Dec 22 02:53	15°5044'01 32.5	4137 AU
max. Earth dist.	14388 Jun 13 20:57		33.11428 AU	opposition	14394 Dec 23 21:53	15° <b>©</b> 41'22 -0°4	
morning rise	14388 Jun 27 15:08	3°920'17		direct	14395 Mar 14 19:10	14°\$24'40	
retrograde	14388 Sep 23 10:20	5°907'34		evening set	14395 Jun 11 09:12	16° <b>©</b> 06'44	
min. Earth dist.	14388 Dec 09 19:26		31.21837 AU	8			
opposition	14388 Dec 11 06:34	3° <b>©</b> 50'00	2°39'01	conjunction	14395 Jun 26 20:53	16°537'42 -1°0	2'25
direct	14389 Mar 01 19:50	2° <b>©</b> 31'05		minimum elong	14395 Jun 26 20:51	16°937'42 1°0	3'27
evening set	14389 May 30 05:18	4° <b>©</b> 19'08		max. Earth dist.	14395 Jun 28 17:25	16°5641'27 34.6	5832 AU
				morning rise	14395 Jul 12 07:08	17° <b>5</b> 08'34	
conjunction	14389 Jun 14 15:26	4° <b>9</b> 51'25	2°12'33	retrograde	14395 Oct 07 11:44	18° <b>5</b> 49'19	
minimum elong	14389 Jun 14 15:31	4° <b>©</b> 51'25	2°11'30	min. Earth dist.	14395 Dec 24 07:04	17°536'47 32.7	7325 AU
max. Earth dist.	14389 Jun 16 04:33	4° <b>9</b> 54'41	33.32298 AU	opposition	14395 Dec 26 02:17	17°534'07 -1°2	2'40
morning rise	14389 Jun 30 00:22	5° <b>5</b> 23'36		direct	14396 Mar 16 02:43	16°ණ17'46	
retrograde	14389 Sep 25 17:14	7° <b>5</b> 09'48		evening set	14396 Jun 12 13:03	17° <b>©</b> 58'59	
min. Earth dist.	14389 Dec 12 01:01	5° <b>©</b> 55'01	31.42886 AU				
opposition	14389 Dec 13 14:38	5° <b>©</b> 52'37	2°03'16	conjunction	14396 Jun 27 23:14	18°529'36 -1°3	3'23
direct	14390 Mar 04 05:54	4° <b>9</b> 34'05		minimum elong	14396 Jun 27 23:10	18° <b>©</b> 29'36 1°3	4'25
evening set	14390 Jun 01 10:16	6° <b>5</b> 21'02		max. Earth dist.	14396 Jun 29 19:55	18°933'20 34.8	9149 AU
				morning rise	14396 Jul 13 08:18	19° <b>©</b> 00'08	
conjunction	14390 Jun 16 21:57	6°553'12		retrograde	14396 Oct 08 13:20	20° <b>©</b> 40'07	
minimum elong	14390 Jun 16 22:01	6°953'12		min. Earth dist.	14396 Dec 25 08:24	19°528'01 33.0	
max. Earth dist.	14390 Jun 18 13:15		33.53669 AU	opposition	14396 Dec 27 05:57	19°525'14 -1°5	5'13
morning rise	14390 Jul 02 08:16	7°525'16		direct	14397 Mar 18 08:04	18°509'12	
retrograde	14390 Sep 27 20:03	9°510'27	21 (4421 ATT	evening set	14397 Jun 14 16:36	19° <b>5</b> 49'38	
min. Earth dist. opposition	14390 Dec 14 08:19	7°953'38	31.64421 AU 1°27'51	agniumation	14397 Jun 30 01:07	2006210152 200	2!50
direct	14390 Dec 15 22:16 14391 Mar 06 14:24	6°£35'30	1 2/31	conjunction minimum elong	14397 Jun 30 01:07	20°519'53 -2°0 20°519'53 2°0	
evening set	14391 Jun 03 15:17	8°\$21'22		max. Earth dist.	14397 Jul	20°\$23'47 35.1	
evening set	14391 Juli 03 13.17	0 3021 22		morning rise	14397 Jul 15 08:22	20°950'03	2020 AU
conjunction	14391 Jun 19 03:53	8° <b>©</b> 53'23	1°06'03	retrograde	14397 Oct 10 11:44	22° <b>©</b> 29'21	
minimum elong	14391 Jun 19 03:55	8°953'23	1°05'00	min. Earth dist.	14397 Dec 27 11:14	21°©17'33 33.2	4798 ATT
max. Earth dist.	14391 Jun 20 19:47		33.75470 AU	opposition	14397 Dec 27 11:14 14397 Dec 29 09:04	21° <b>©</b> 14'46 -2°2	
morning rise	14391 Jul 04 15:08	9° <b>9</b> 25'17	22.72 170 110	direct	14398 Mar 20 13:37	19° <b>©</b> 59'06	
retrograde	14391 Sep 29 23:28	11°509'29		evening set	14398 Jun 16 19:56	21° <b>©</b> 38'47	
min. Earth dist.	14391 Dec 16 13:14		31.86356 AU		2. 2. 3.2.2. 20 13.30		
opposition	14391 Dec 18 05:02	9° <b>©</b> 53'02		conjunction	14398 Jul 02 02:18	22°508'39 -2°3	3'45
direct	14392 Mar 07 23:06	8° <b>©</b> 35'17		minimum elong	14398 Jul 02 02:13	22°508'39 2°3	
evening set	14392 Jun 04 20:10	10°520'08		max. Earth dist.	14398 Jul 04 01:38	22°©12'33 35.3	
-				morning rise	14398 Jul 17 07:31	22° <b>©</b> 38'26	
conjunction	14392 Jun 20 09:08	10° <b>©</b> 51'56	0°33'19	retrograde	14398 Oct 12 11:02	24°\$17'04	
minimum elong	14392 Jun 20 09:09	10° <b>©</b> 51'57	0°32'16	min. Earth dist.	14398 Dec 29 11:34	23°505'44 33.4	9112 AU

opposition direct	14398 Dec 31 11:26 14399 Mar 22 17:42	23°©02'50 21°©47'32	-2°58'31	conjunction minimum elong	14405 Jul 13 19:38 14405 Jul 13 19:30	4°Ω13'42 -5°46'39 4°Ω13'42 5°47'35
evening set	14399 Jun 18 23:06	23°526'32		max. Earth dist.	14405 Jul 16 00:05	4° <b>&amp;</b> 17'49 37.12001 AU
				morning rise	14405 Jul 28 00:59	4° <b>Ω</b> 40'14
conjunction	14399 Jul 04 02:56	23°956'00	-3°03'06	retrograde	14405 Oct 23 22:43	6° <b>£</b> 15'32
minimum elong	14399 Jul 04 02:50	23° <b>©</b> 55'59	3°04'06	min. Earth dist.	14406 Jan 10 08:38	5° <b>Ω</b> 06'44 35.25592 AU
max. Earth dist.	14399 Jul 06 03:44		35.61289 AU	opposition	14406 Jan 12 13:27	5° <b>Ω</b> 03'40 -6°19'37
morning rise	14399 Jul 19 05:42	24° <b>©</b> 25'22		direct	14406 Apr 04 03:41	3° <b>£</b> 50′57
retrograde	14399 Oct 14 10:27	26°503'26		evening set	14406 Jul 01 15:08	5° <b>Ω</b> 26'17
min. Earth dist.	14399 Dec 31 12:45		33.73790 AU		14406 1 1 15 16 42	50 0 50100 6011145
opposition direct	14400 Jan 02 13:20 14400 Mar 23 19:09	24°549'32 23°534'37	-3°29'14	conjunction	14406 Jul 15 16:43 14406 Jul 15 16:34	5°Ω52'20 -6°11'45 5°Ω52'20 6°12'40
evening set	14400 Mar 23 19:09 14400 Jun 20 01:58	25°9513'00		minimum elong max. Earth dist.	14406 Jul 17 21:35	5°Ω56'27 37.37221 AU
evening set	14400 Juli 20 01.38	23 3 13 00		morning rise	14406 Jul 29 17:36	6°Ω18'21
conjunction	14400 Jul 05 03:03	25°942'01	-3°31'53	retrograde	14406 Oct 25 17:52	7°Ω53'17
minimum elong	14400 Jul 05 02:57	25°5642'00	3°32'52	min. Earth dist.	14407 Jan 12 07:03	6°Ω44'43 35.50956 AU
max. Earth dist.	14400 Jul 07 05:03		35.86029 AU	opposition	14407 Jan 14 11:47	6° <b>Ω</b> 41'40 -6°45'40
morning rise	14400 Jul 20 02:56	26°510'58		direct	14407 Apr 06 02:29	5° <b>Ω</b> 29'16
retrograde	14400 Oct 15 09:32	27°5548'29		evening set	14407 Jul 03 16:28	7° <b>Ω</b> 04'09
min. Earth dist.	14401 Jan 01 13:00	26° <b>©</b> 37'55	33.98758 AU			
opposition	14401 Jan 03 14:40	26° <b>©</b> 34'56	-3°59'18	conjunction	14407 Jul 17 13:19	7° <b>Ω</b> 29'40 -6°36'14
direct	14401 Mar 25 21:47	25° <b>©</b> 20'25		minimum elong	14407 Jul 17 13:10	7° <b>Ω</b> 29'39 6°37'08
evening set	14401 Jun 22 04:37	26°958'13		max. Earth dist.	14407 Jul 19 18:43	7° <b>Ω</b> 33'48 37.62393 AU
				morning rise	14407 Jul 31 09:17	7° <b>£</b> 55'08
conjunction	14401 Jul 07 02:24	27°526'47		retrograde	14407 Oct 27 12:53	9° <b>Ω</b> 29'43
minimum elong	14401 Jul 07 02:17	27°526'46	4°01'02	min. Earth dist.	14408 Jan 14 04:29	8°Ω21'25 35.76270 AU
max. Earth dist.	14401 Jul 09 04:46		36.11008 AU	opposition	14408 Jan 16 09:28	8° <b>Ω</b> 18'22 -7°11'02 7° <b>Ω</b> 06'14
morning rise retrograde	14401 Jul 21 23:19 14401 Oct 17 10:58	27° <b>©</b> 55'16 29° <b>©</b> 32'18		direct evening set	14408 Apr 07 01:13 14408 Jul 04 17:37	8° <b>Ω</b> 40'43
min. Earth dist.	14401 Oct 17 10.38 14402 Jan 03 12:30		34.23963 AU	evening set	14406 Jul 04 17.37	0 0 (40 43
opposition	14402 Jan 05 15:28	28° <b>©</b> 19'07		conjunction	14408 Jul 18 09:15	9° <b>Ω</b> 05'41 -7°00'06
direct	14402 Mar 27 21:08	27°504'59	1 20 13	minimum elong	14408 Jul 18 09:05	9° <b>Ω</b> 05'40 7°00'58
evening set	14402 Jun 24 07:03	28°5642'14		max. Earth dist.	14408 Jul 20 14:28	9° <b>Ω</b> 09'46 37.87535 AU
Ü				morning rise	14408 Aug 01 00:22	9° <b>£</b> 30′35
conjunction	14402 Jul 09 01:31	29°510'19	-4°27'37	retrograde	14408 Oct 28 09:39	11° <b>Ω</b> 04'50
minimum elong	14402 Jul 09 01:23	29° <b>©</b> 10'19	4°28'35	min. Earth dist.	14409 Jan 15 00:33	9° <b>Ω</b> 56'50 36.01612 AU
max. Earth dist.	14402 Jul 11 05:26	29°514'28	36.36169 AU	opposition	14409 Jan 17 06:43	9° <b>£</b> 53'44 -7°35'43
morning rise	14402 Jul 23 18:50	29° <b>5</b> 38'21		direct	14409 Apr 08 21:09	8° <b>Ω</b> 41'53
	14402 Aug 04 16:17	$0^{\circ}\Omega$		evening set	14409 Jul 06 18:10	10° <b>Ω</b> 15'59
retrograde	14402 Oct 19 08:28	1° <b>Ω</b> 14'55				_
min. Earth dist.	14403 Jan 05 12:56		34.49308 AU	conjunction	14409 Jul 20 04:42	10° <b>Ω</b> 40'22 -7°23'19
opposition	14403 Jan 07 15:38	0° <b>Ω</b> 02'04	-4°57'27	minimum elong	14409 Jul 20 04:32	10°Ω40'22 7°24'11
t' i	14403 Jan 09 02:43	30°қ <b>ତ</b> 28° <b>ତ</b> 48'19		max. Earth dist.	14409 Jul 22 11:29	10° <b>Ω</b> 44'33 38.12720 AU
direct	14403 Mar 29 22:43 14403 Jun 12 11:04	28°94819 0°Ω		morning rise retrograde	14409 Aug 02 14:27 14409 Oct 30 03:55	11° <b>Ω</b> 04'44 12° <b>Ω</b> 38'40
evening set	14403 Jun 26 09:30	0° <b>Ω</b> 25'04		min. Earth dist.	14410 Jan 16 21:40	11°Ω30'53 36.27011 AU
evening set	14403 Juli 20 09.30	0 0623 04		opposition	14410 Jan 19 03:30	11° $\Omega$ 27'49 -7°59'42
conjunction	14403 Jul 11 00:02	0°Ω52'40	-4°54'35	direct	14410 Apr 10 19:59	10° <b>Ω</b> 16'16
minimum elong	14403 Jul 10 23:54	0° <b>£</b> 52'39	4°55'32	evening set	14410 Jul 08 18:47	11° <b>Ω</b> 50′01
max. Earth dist.	14403 Jul 13 03:25	0° <b>Ω</b> 56'45	36.61428 AU	-		
morning rise	14403 Jul 25 13:45	1° <b>Ω</b> 20′12		conjunction	14410 Jul 21 23:41	12° <b>Ω</b> 13'50 -7°45'54
retrograde	14403 Oct 21 07:05	2° <b>Ω</b> 56′20		minimum elong	14410 Jul 21 23:31	12° <b>Ω</b> 13'50 7°46'44
min. Earth dist.	14404 Jan 07 11:08	1° <b>Ω</b> 46'54	34.74736 AU	max. Earth dist.	14410 Jul 24 05:56	12° <b>Ω</b> 17′57 38.37984 AU
opposition	14404 Jan 09 15:23	1° <b>Ω</b> 43'49	-5°25'31	morning rise	14410 Aug 04 04:06	12° <b>Ω</b> 37'38
direct	14404 Mar 31 00:35	0° <b>Ω</b> 30′26		retrograde	14410 Oct 31 22:57	14° <b>Ω</b> 11'17
evening set	14404 Jun 27 11:30	2° <b>Ω</b> 06'42		min. Earth dist.	14411 Jan 18 16:07	13° <b>Ω</b> 03'51 36.52505 AU
	14404 8 1 12 22 22	20 02=:::	5020155	opposition	14411 Jan 20 23:34	13° <b>Ω</b> 00'42 -8°23'00
conjunction	14404 Jul 11 22:03	2° <b>Ω</b> 33'48		direct	14411 Apr 12 17:27	11° <b>Ω</b> 49'27
minimum elong	14404 Jul 11 21:54	2° <b>Ω</b> 33'47		evening set	14411 Jul 10 19:00	13° <b>Ω</b> 22'54
max. Earth dist. morning rise	14404 Jul 14 02:55 14404 Jul 26 07:39	2° <b>λ</b> (3/58 3° <b>Ω</b> 00'50	36.86719 AU	conjunction	14411 Jul 23 18:19	13° <b>Ω</b> 46'09 -8°07'51
retrograde	14404 Jul 26 07:39 14404 Oct 22 03:16	4°Ω36'33		minimum elong	14411 Jul 23 18:19 14411 Jul 23 18:09	13°Ω46'09 -8°08'41
min. Earth dist.	14404 Oct 22 03:10 14405 Jan 08 11:04		35.00181 AU	max. Earth dist.	14411 Jul 26 02:02	13°Ω50'20 38.63334 AU
opposition	14405 Jan 10 14:49	3° <b>Ω</b> 24'22		morning rise	14411 Aug 05 17:03	14° <b>Ω</b> 09'22
direct	14405 Apr 02 02:42	2°Ω11'20	·		14411 Sep 06 01:36	14 <b>00</b> 05 22 15° <b>Ω</b>
evening set	14405 Jun 29 13:28	3° <b>Ω</b> 47'07		retrograde	14411 Nov 02 16:13	15° <b>Ω</b> 42'47
-				-	14412 Jan 01 23:03	15° <b>RΩ</b>

: E 4 E 4	14412 1 20 12 21	1.40.025127 26.70006	ATT	14410 4 02 17 27	240 005150 10024105
min. Earth dist.	14412 Jan 20 12:21	14°Ω35'37 36.78086	,	14418 Aug 02 17:37	24° <b>Ω</b> 05'59 -10°24'05
opposition	14412 Jan 22 19:31	14°Ω32'30 -8°45'37	minimum elong	14418 Aug 02 17:28	24°Ω05'58 10°24'47
direct	14412 Apr 13 14:43	13° <b>Ω</b> 21'34	max. Earth dist.	14418 Aug 05 01:43	24°Ω10'01 40.39388 AU
evening set	14412 Jul 11 18:55	14° <b>Ω</b> 54'44	morning rise	14418 Aug 13 20:14	24° <b>Ω</b> 25'06
	14412 Jul 14 18:33	15° <b>Ω</b>	retrograde	14418 Nov 12 11:20	25° <b>Ω</b> 57'37
			min. Earth dist.	14419 Jan 30 19:41	24° <b>Ω</b> 52'21 38.54986 AU
conjunction	14412 Jul 24 12:21	15° <b>Ω</b> 17'24 -8°29'09	opposition	14419 Feb 02 03:20	24° <b>Ω</b> 49'19 -11°05'24
minimum elong	14412 Jul 24 12:11	15° <b>Ω</b> 17'24 8°29'57	direct	14419 Apr 25 03:21	23° <b>Ω</b> 40'34
max. Earth dist.	14412 Jul 26 20:09	15° <b>Ω</b> 21'35 38.88758		14419 Jul 24 13:27	25° <b>Ω</b> 12'29
morning rise	14412 Aug 06 05:13	15°Ω40'03	rto evening set	11117 301 21 13.27	25 0612 25
retrograde	14412 Nov 03 07:55	17° <b>Ω</b> 13'16	conjunction	14419 Aug 04 09:21	25° <b>Ω</b> 31'01 -10°41'13
•		16°Ω06'26 37.03705	•	14419 Aug 04 09:21	25°Ω31'01 -10°41'54
min. Earth dist.	14413 Jan 21 06:37			0	= =
opposition	14413 Jan 23 14:54	16° <b>Ω</b> 03'16 -9°07'32	max. Earth dist.	14419 Aug 06 17:14	25°Ω35'02 40.63691 AU
	14413 Mar 22 15:30	15° <b>ŖΩ</b>	morning rise	14419 Aug 15 04:56	25° <b>Ω</b> 49'33
direct	14413 Apr 15 12:14	14° <b>Ω</b> 52'40	retrograde	14419 Nov 14 00:36	27° <b>Ω</b> 21'59
	14413 May 08 21:22	15° <b>Ω</b>	min. Earth dist.	14420 Feb 01 12:24	26° <b>Ω</b> 16′56 38.79336 AU
evening set	14413 Jul 13 18:43	16° <b>Ω</b> 25'35	opposition	14420 Feb 03 20:06	26° <b>Ω</b> 13'54 -11°22'53
			direct	14420 Apr 25 22:32	25° <b>Ω</b> 05'25
conjunction	14413 Jul 26 06:03	16° <b>Ω</b> 47'41 -8°49'49	evening set	14420 Jul 25 11:42	26° <b>Ω</b> 37'12
minimum elong	14413 Jul 26 05:54	16° <b>Ω</b> 47'41 8°50'38	Ç		
max. Earth dist.	14413 Jul 28 14:12	16°Ω51'52 39.14187	AU conjunction	14420 Aug 05 00:25	26° <b>Ω</b> 55'08 -10°57'46
morning rise	14413 Aug 07 17:05	17° <b>Ω</b> 09'45	minimum elong	14420 Aug 05 00:18	26°Ω55'07 10°58'26
-			_	•	
retrograde	14413 Nov 05 01:38	18° <b>Ω</b> 42'49	max. Earth dist.	14420 Aug 07 07:41	26° <b>€</b> 59'04 40.87729 AU
min. Earth dist.	14414 Jan 23 01:25	17° <b>Ω</b> 36'16 37.29325		14420 Aug 15 13:06	27° <b>Ω</b> 13'03
opposition	14414 Jan 25 09:52	17° <b>Ω</b> 33'07 -9°28'47	retrograde	14420 Nov 14 17:32	28° <b>Ω</b> 45'25
direct	14414 Apr 17 06:47	16° <b>Ω</b> 22'50	min. Earth dist.	14421 Feb 02 04:35	27° <b>Ω</b> 40'35 39.03472 AU
evening set	14414 Jul 15 18:15	17° <b>Ω</b> 55'32	opposition	14421 Feb 04 12:33	27° <b>Ω</b> 37'34 -11°39'47
			direct	14421 Apr 27 13:21	26° <b>Ω</b> 29'19
conjunction	14414 Jul 27 23:32	18° <b>Ω</b> 17'03 -9°09'52	evening set	14421 Jul 27 09:44	28° <b>Ω</b> 00'58
minimum elong	14414 Jul 27 23:22	18° <b>Ω</b> 17'03 9°10'38			
max. Earth dist.	14414 Jul 30 08:23	18° <b>Ω</b> 21'15 39.39581	AU conjunction	14421 Aug 06 15:22	28°Ω18'18 -11°13'46
morning rise	14414 Aug 09 04:14	18°Ω38'33	minimum elong	14421 Aug 06 15:14	28°Ω18'17 11°14'25
retrograde	14414 Nov 06 18:39	20°Ω11'28	max. Earth dist.	14421 Aug 08 23:33	28°Ω22'17 41.11581 AU
min. Earth dist.		19°Ω05'11 37.54853		-	28°Ω35'37
	14415 Jan 24 20:21		AU morning rise	14421 Aug 16 20:43	= =
opposition	14415 Jan 27 04:29	19° <b>Ω</b> 02'04 -9°49'22		14421 Oct 22 08:52	0° <b>m</b>
direct	14415 Apr 19 01:30	17° <b>Ω</b> 52′07	retrograde	14421 Nov 16 08:00	0° m 07'55
evening set	14415 Jul 17 17:42	19° <b>Ω</b> 24'38		14421 Dec 11 15:43	30°R <b>Ω</b>
			min. Earth dist.	14422 Feb 03 21:17	29° <b>Ω</b> 03'15 39.27437 AU
conjunction	14415 Jul 29 16:26	19° <b>Ω</b> 45'33 -9°29'18	opposition	14422 Feb 06 04:28	29° <b>Ω</b> 00'17 -11°56'05
minimum elong	14415 Jul 29 16:17	19° <b>Ω</b> 45'33 9°30'04	direct	14422 Apr 29 05:36	27° <b>Ω</b> 52'17
max. Earth dist.	14415 Aug 01 00:31	19° <b>Ω</b> 49'40 39.64850	AU evening set	14422 Jul 29 07:41	29° <b>Ω</b> 23'51
morning rise	14415 Aug 10 14:58	20° <b>Ω</b> 06′28	· ·		
retrograde	14415 Nov 08 13:17	21° <b>Ω</b> 39'15	conjunction	14422 Aug 08 05:50	29° <b>Ω</b> 40'33 -11°29'12
min. Earth dist.	14416 Jan 26 13:42	20°Ω33'18 37.80244		14422 Aug 08 05:43	29° <b>Ω</b> 40'33 11°29'50
opposition	14416 Jan 28 22:44	20°Ω30'09 -10°09'19	max. Earth dist.	14422 Aug 10 13:05	29°Ω44'27 41.35296 AU
		19°Ω20'32		-	29°Ω57'17
direct	14416 Apr 19 18:29		morning rise	14422 Aug 18 03:55	
evening set	14416 Jul 18 16:53	20° <b>Ω</b> 52'53		14422 Aug 19 19:10	0° m
			retrograde	14422 Nov 17 23:19	1° <b>m</b> 29'32
conjunction	14416 Jul 30 09:14	21°Ω13'13 -9°48'09	min. Earth dist.	14423 Feb 05 11:42	0° Mp 25'08 39.51284 AU
minimum elong	14416 Jul 30 09:05	21° <b>Ω</b> 13'12 9°48'53	opposition	14423 Feb 07 20:03	0° m/22'07 -12°11'46
max. Earth dist.	14416 Aug 01 18:19	21° <b>Ω</b> 17'22 39.89945	AU	14423 Feb 25 07:30	30° <b>ŖΩ</b>
morning rise	14416 Aug 11 01:10	21° <b>Ω</b> 33'32	direct	14423 Apr 30 20:28	29° <b>Ω</b> 14'22
retrograde	14416 Nov 09 05:14	23° <b>Ω</b> 06′13		14423 Jul 01 13:09	0° <b>m</b> )
min. Earth dist.	14417 Jan 27 08:49	22° <b>Ω</b> 00'28 38.05428	AU evening set	14423 Jul 31 05:11	0° Mp 45′52
opposition	14417 Jan 29 16:44	21° <b>Ω</b> 57'24 -10°28'37	Ç		•
direct	14417 Apr 21 13:50	20°Ω48'05	conjunction	14423 Aug 09 19:58	1° Mp 01'59 -11°44'04
evening set	14417 Jul 20 15:55	20° <b>Ω</b> 20'17	minimum elong	14423 Aug 09 19:50	1° Mp 01'58 11°44'40
evening set	1771/Jul 20 13.33	-∠ O(∠U 1 /	_	=	•
i <i>(</i> *	14417 4 01 01 21	220 0 40102 1000 (22.1	max. Earth dist.	14423 Aug 12 04:15	1° Mp 05'55 41.58898 AU
conjunction	14417 Aug 01 01:31	22°\O40'02 -10°06'24	morning rise	14423 Aug 19 10:37	1° Mp 18'05
minimum elong	14417 Aug 01 01:22	22°Ω40'01 10°07'08	retrograde	14423 Nov 19 12:09	2° m/50'20
max. Earth dist.	14417 Aug 03 09:26	$22^{\circ}\Omega 44'05  40.14811$		14424 Feb 07 03:51	1°Mp,46′07 39.75021 AU
morning rise	14417 Aug 12 10:52	22° <b>Ω</b> 59'45	opposition	14424 Feb 09 11:27	$1^{\circ}$ Mp $43'08 - 12^{\circ}26'52$
retrograde	14417 Nov 10 21:00	24° <b>Ω</b> 32′21	direct	14424 May 01 13:17	0° m/35'39
min. Earth dist.	14418 Jan 29 01:35	23° <b>Ω</b> 26'54 38.30350	AU evening set	14424 Aug 01 02:41	2° Mp 07'06
opposition	14418 Jan 31 10:12	23° <b>Ω</b> 23'47 -10°47'19			
direct	14418 Apr 23 08:45	22° <b>Ω</b> 14'46	conjunction	14424 Aug 10 09:49	2° m/22'37 -11°58'23
evening set	14418 Jul 22 14:47	23° <b>Ω</b> 46′50	minimum elong	14424 Aug 10 09:43	2° m/22'36 11°58'58
<i>3</i>			8		

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max. Earth dist.	14424 Aug 12 17:41	2° m 26'30	41.82401 AU	conjunction	14431 Aug 20 03:22	11° <b>m</b> ) 27'36	-13°24'09
morning rise	14424 Aug 19 16:50	2° m/38'06		minimum elong	14431 Aug 20 03:19	11° <b>m</b> ) 27'36	
retrograde	14424 Nov 19 23:44	4° m) 10'22		max. Earth dist.	14431 Aug 22 08:57	11° <b>m</b> )31'13	43.40042 AU
min. Earth dist.	14425 Feb 07 18:05	3° M 06'25	39.98630 AU	morning rise	14431 Aug 27 01:47	11° <b>m</b> )38'47	
opposition	14425 Feb 10 02:21	3° Mp 03'25	-12°41'23	retrograde	14431 Nov 29 14:06	13° <b>m</b> ) 11'30	
direct	14425 May 03 06:02	1° <b>m</b> 56'11		min. Earth dist.	14432 Feb 17 22:13	12° <b>m</b> 08'48	41.56307 AU
evening set	14425 Aug 02 23:49	3° m/27′37		opposition	14432 Feb 20 03:12	12° Mp 06'03	-14°08'01
				direct	14432 May 12 11:23	11° <b>m</b> 00'29	
conjunction	14425 Aug 11 23:16	3° Mp 42'30	-12°12'09	evening set	14432 Aug 14 01:24	12° Mp 32'06	
minimum elong	14425 Aug 11 23:10	3° <b>m</b> 42'30	12°12'42				
max. Earth dist.	14425 Aug 14 07:01	3° Mp 46'22	42.05754 AU	conjunction	14432 Aug 20 15:02	12° Mp 42'38	-13°34'31
morning rise	14425 Aug 20 22:45	3° <b>m</b> 57'23		minimum elong	14432 Aug 20 14:59	12° <b>m</b> 42'37	13°34'57
retrograde	14425 Nov 21 12:54	5° <b>m</b> 29'41		max. Earth dist.	14432 Aug 22 19:22	12° Mp 46'08	43.61110 AU
min. Earth dist.	14426 Feb 09 09:02	4° Mp 25'57	40.22079 AU	morning rise	14432 Aug 27 04:46	12° <b>m</b> 53'10	
opposition	14426 Feb 11 17:03	4° Mp 22'58 ⋅	-12°55'20	retrograde	14432 Nov 30 02:59	14° <b>m</b> 26'00	
direct	14426 May 04 21:29	3° Mp 16′01		min. Earth dist.	14433 Feb 18 10:55	13° <b>m</b> ) 23'27	41.77367 AU
evening set	14426 Aug 04 20:55	4° Mp47′26		opposition	14433 Feb 20 15:54	13° <b>m</b> 20'43	-14°18'26
				direct	14433 May 13 23:34	12°M/15'20	
conjunction	14426 Aug 13 12:37	5° Mp 01′42 ⋅	-12°25'23	evening set	14433 Aug 15 21:44	13° <b>m</b> 47'01	
minimum elong	14426 Aug 13 12:32	5° Mp 01′42	12°25'55				
max. Earth dist.	14426 Aug 15 20:54	5° My 05'35	42.28923 AU	conjunction	14433 Aug 22 02:29	13° Mp 56'54	-13°44'26
morning rise	14426 Aug 22 04:11	5° <b>m</b> 15'59		minimum elong	14433 Aug 22 02:27	13° <b>m</b> 56'54	13°44'49
retrograde	14426 Nov 23 01:24	6° Mp 48′20		max. Earth dist.	14433 Aug 24 07:37	14° Mp 00'27	43.81869 AU
min. Earth dist.	14427 Feb 10 23:54	5° Mp 44′47	40.45295 AU	morning rise	14433 Aug 28 07:14	14° Mp 06'48	
opposition	14427 Feb 13 07:18	5° Mp 41'51	-13°08'43	retrograde	14433 Dec 01 14:52	15° <b>m</b> 39'46	
direct	14427 May 06 13:10	4° Mp 35′09		min. Earth dist.	14434 Feb 20 00:28	14° <b>m</b> 37'18	41.98132 AU
evening set	14427 Aug 06 17:57	6° Mp 06′34		opposition	14434 Feb 22 04:19	14° <b>m</b> 34'38	-14°28'22
				direct	14434 May 15 11:42	13° <b>m</b> 29'26	
conjunction	14427 Aug 15 01:35	6° Mp 20'14	-12°38'06	evening set	14434 Aug 17 18:09	15° Mp 01'14	
minimum elong	14427 Aug 15 01:29	6°Mp20′14	12°38'36				
max. Earth dist.	14427 Aug 17 08:35	6° Mp 24′01	42.51842 AU	conjunction	14434 Aug 23 13:34	15° Mp 10'28	-13°53'52
morning rise	14427 Aug 23 09:17	6° Mp 33′54		minimum elong	14434 Aug 23 13:31	15° Mp 10'28	
retrograde	14427 Nov 24 17:14	8° <b>m</b> )06'18		max. Earth dist.	14434 Aug 25 17:30		44.02377 AU
min. Earth dist.	14428 Feb 12 13:32	•	40.68247 AU	morning rise	14434 Aug 29 09:03	15° <b>m</b> ) 19'42	
opposition	14428 Feb 14 21:26	7° Mp 00'04	-13°21'35	retrograde	14434 Dec 03 03:06	16° Mp 52′49	
direct	14428 May 07 00:41	5° <b>m</b> 53'37		min. Earth dist.	14435 Feb 21 11:35	-•	42.18671 AU
evening set	14428 Aug 07 14:40	7° <b>m</b> 25'04		opposition	14435 Feb 23 16:17	15° <b>m</b> 47'52	-14°37'49
				direct	14435 May 16 21:58	14° <b>m</b> 42'52	
conjunction	14428 Aug 15 14:21	7° Mp 38′06 ⋅		evening set	14435 Aug 19 14:29	16° Mp 14'49	
minimum elong	14428 Aug 15 14:16	7° <b>m</b> ) 38'06					
max. Earth dist.	14428 Aug 17 21:59		42.74462 AU	conjunction	14435 Aug 25 00:28	16° Mp 23'24	
morning rise	14428 Aug 23 13:59	7° <b>m</b> 51'10		minimum elong	14435 Aug 25 00:27	16° Mp 23'23	
retrograde	14428 Nov 25 06:07	9° <b>m</b> 23'38		max. Earth dist.	14435 Aug 27 04:49		44.22679 AU
min. Earth dist.	14429 Feb 13 05:05	-	40.90863 AU	morning rise	14435 Aug 30 10:33	16° Mp 31'57	
opposition	14429 Feb 15 11:24	8° Mp 17'37	-13°33'55	retrograde	14435 Dec 04 12:07	18° Mp 05'17	12 20010 111
direct	14429 May 08 14:40	7° Mp 11'25		min. Earth dist.	14436 Feb 23 00:34	-•	42.39019 AU
evening set	14429 Aug 09 11:35	8° Mp 42'53		opposition	14436 Feb 25 04:17	17° Mp 00'30	-14°46'4/
conjunction	14420 4 17 02.50	00 m 55110	1200202	direct	14436 May 17 11:11	15° <b>m</b> 55'44 17° <b>m</b> 27'51	
,	14429 Aug 17 02:56	8° m 55'18		evening set	14436 Aug 20 10:54	1/11/2/31	
minimum elong max. Earth dist.	14429 Aug 17 02:52 14429 Aug 19 09:15	8° Mp 55'18	13°02'31 42.96730 AU	agniunction	14426 Ava 25 11:02	170 m. 25144	14011122
	-		42.90/30 AU	conjunction	14436 Aug 25 11:03	17° Mp 35'44	
morning rise	14429 Aug 24 18:18	9° <b>M</b> )07'44		minimum elong	14436 Aug 25 11:01	17° Mp 35'44	
retrograde	14429 Nov 26 17:22	10° Mp 40'17	41 12002 ATT	max. Earth dist.	14436 Aug 27 15:19		44.42805 AU
min. Earth dist.	14430 Feb 14 18:07		41.13092 AU	morning rise	14436 Aug 30 11:13	17° <b>m</b> 43'38 19° <b>m</b> 17'11	
opposition	14430 Feb 17 00:47	9° Mp 34'28 -	-13 43 40	retrograde min. Earth dist.	14436 Dec 04 19:51	-	42.59159 AU
direct	14430 May 10 05:04	8° Mg 28'30 10° Mg 00'01			14437 Feb 23 11:51		
evening set	14430 Aug 11 08:17	10.00.01		opposition direct	14437 Feb 25 15:51	18° Mp 12'36 - 17° Mp 08'02	-14 33 17
aaniumatian	14420 4 10 15:10	100 m 11140	12012120		14437 May 19 01:34		
conjunction	14430 Aug 18 15:19	10° Mp 11'49 -		evening set	14437 Aug 22 07:31	18° Mp 40'24	
minimum elong	14430 Aug 18 15:15	10°M)11'49		agniunction	14427 Ana 26 21-26	100 m. 1712 E	1.401.0120
max. Earth dist.	14430 Aug 20 21:15	-	43.18588 AU	conjunction	14437 Aug 26 21:26	18° Mp 47'35	
morning rise	14430 Aug 25 22:24	10° Mp 23'37		minimum elong	14437 Aug 26 21:26	18° <b>M</b> ) 47'35	
retrograde	14430 Nov 28 04:20	11° Mp 56'16	41 24000 477	max. Earth dist.	14437 Aug 29 00:56		44.62715 AU
min. Earth dist.	14431 Feb 16 08:43	-	41.34909 AU	morning rise	14437 Aug 31 11:30	18° Mp 54'47	
opposition	14431 Feb 18 14:12	10° mp 50'38 ·	-13~5/'08	retrograde	14437 Dec 06 07:32	20° Mp 28'36	
		00 2 4 44 7 2		1 E 4 21 1	14420 E 1 24 22 15	100m 000	40 70004 177
direct evening set	14431 May 11 19:47 14431 Aug 13 04:55	9° Mp 44'52 11° Mp 16'26		min. Earth dist.	14438 Feb 24 23:17 14438 Feb 27 03:06	19° Tp 26'51 19° Tp 24'13	42.79084 AU

1:4	14429 M 20 12-52	100 m 10152			14445 M 07 05:01	270 m 22101	15947153
direct evening set	14438 May 20 12:53 14438 Aug 24 04:32	18° Mp 19'53 19° Mp 52'31		opposition direct	14445 Mar 07 05:01 14445 May 28 15:26	27° m/33'01 26° m/30'00	-15-4/52
evening set	14436 Aug 24 04.32	19 11/3231		direct	14443 Way 26 13.20	20 HJ 30 00	
conjunction	14438 Aug 28 07:47	19° <b>m</b> 58'58	-14°27'06	conjunction	14445 Sep 05 02:23	28° <b>m</b> 05'59	-15°09'37
minimum elong	14438 Aug 28 07:46	19° m 58'58		minimum elong	14445 Sep 05 02:27	28° m 06'00	
max. Earth dist.	14438 Aug 30 11:48	~	44.82391 AU	max. Earth dist.	14445 Sep 07 01:36	~	46.09626 AU
morning rise	14438 Sep 01 11:04	20° mg 05'26		retrograde	14445 Dec 15 14:00	29° m 43'45	
retrograde	14438 Dec 07 17:58	21° mp 39'34		min. Earth dist.	14446 Mar 06 16:53		44.25232 AU
min. Earth dist.	14439 Feb 26 11:33		42.98731 AU	opposition	14446 Mar 08 14:39	28° m 40'42	
opposition	14439 Feb 28 14:17	20° m) 35'24	-15°10'53	direct	14446 May 30 00:41	27° m 37'50	
direct	14439 May 22 00:46	19° <b>m</b> )31'18			,	ì	
evening set	14439 Aug 26 01:57	21° <b>m</b> )04'15		conjunction	14446 Sep 06 11:08	29° m 13'24	-15°14'12
C	Č	•		minimum elong	14446 Sep 06 11:12	29° m 13'24	15°14'19
conjunction	14439 Aug 29 17:40	21°Mp09'56	-14°34'19	max. Earth dist.	14446 Sep 08 09:31	29° m 16'19	46.26229 AU
minimum elong	14439 Aug 29 17:41	21°Mp09'56	14°34'36		14446 Oct 08 13:29	0∘ <b>⊽</b>	
max. Earth dist.	14439 Aug 31 20:19	21°Mp13'13	45.01779 AU	retrograde	14446 Dec 16 21:03	0° <b>£</b> 50'45	
morning rise	14439 Sep 02 09:31	21° m 15'38			14447 Feb 27 16:49	30°R <b>™</b>	
retrograde	14439 Dec 09 06:27	22° <b>m</b> 50'07		min. Earth dist.	14447 Mar 08 01:48	29° <b>m</b> 50'07	44.41763 AU
min. Earth dist.	14440 Feb 27 22:03	21° Mp 48'45	43.18067 AU	opposition	14447 Mar 10 00:05	29° <b>m</b> 47'50	-15°57'10
opposition	14440 Mar 01 01:14	21°Mp46'10	-15°18'02	direct	14447 May 31 09:49	28° Mp 45'06	
direct	14440 May 22 08:42	20° <b>m</b> 42'17			14447 Aug 25 06:35	0∘ <b>⊽</b>	
evening set	14440 Aug 27 00:17	22° <b>m</b> 15'37					
				conjunction	14447 Sep 07 19:29	0° <b>£</b> 20'16	-15°18'26
conjunction	14440 Aug 30 03:37	22° <b>m</b> 20'29	-14°41'08	minimum elong	14447 Sep 07 19:33	0° <b>≏</b> 20'16	15°18'33
minimum elong	14440 Aug 30 03:37	22° <b>m</b> 20'29	14°41'23	max. Earth dist.	14447 Sep 09 17:25	0° <b>£</b> 23′09	46.42555 AU
max. Earth dist.	14440 Sep 01 06:29	22° m 23'46	45.20824 AU	retrograde	14447 Dec 18 04:23	1° <b>≏</b> 57'15	
morning rise	14440 Sep 02 07:00	22° m 25'21		min. Earth dist.	14448 Mar 08 11:58	0° <b>£</b> 56'42	44.58045 AU
retrograde	14440 Dec 09 17:13	24° Mp 00'16		opposition	14448 Mar 10 09:31	0° <b>≏</b> 54'27	-16°01'13
min. Earth dist.	14441 Feb 28 10:29	22° <b>m</b> 59'00	43.37034 AU		14448 May 04 23:26	30° <b>₽,™</b>	
opposition	14441 Mar 02 12:02	22° m 56'30	-15°24'46	direct	14448 May 31 19:32	29° <b>m</b> 51'53	
direct	14441 May 23 17:56	21° Mp 52'50			14448 Jun 27 08:25	0∘ <b>⊽</b>	
evening set	14441 Aug 29 00:17	23°M 26'41					
				conjunction	14448 Sep 08 03:55	1° <b>≏</b> 26'39	-15°22'17
conjunction	14441 Aug 31 13:21	23°M 30'36	-14°47'34	minimum elong	14448 Sep 08 04:00	1° <b>≏</b> 26'39	15°22'21
minimum elong	14441 Aug 31 13:23	23° <b>m</b> 30'37	14°47'48	max. Earth dist.	14448 Sep 10 02:11	1° <b>≏</b> 29'32	46.58649 AU
morning rise	14441 Sep 03 02:31	23° Mp 34'32		retrograde	14448 Dec 18 10:49	3° <b>ჲ</b> 03'17	
max. Earth dist.	14441 Sep 02 15:13	23° m 33'49	45.39483 AU	min. Earth dist.	14449 Mar 09 21:29	2° <b>≏</b> 02'51	44.74067 AU
retrograde	14441 Dec 11 00:40	$25^\circ$ Mp $10^\prime00$		opposition	14449 Mar 11 18:33		-16°04'53
min. Earth dist.	14442 Mar 01 21:03	24° Mp 08'53	43.55564 AU	direct	14449 Jun 02 07:06	0° <b>ჲ</b> 58'13	
opposition	14442 Mar 03 22:30	24° Mp 06'25	-15°31'06				
direct	14442 May 25 05:28	23°M 02'56		conjunction	14449 Sep 09 12:00	2° <b>£</b> 32'36	-15°25'45
evening set	14442 Aug 31 03:19	24° Mp 37'28		minimum elong	14449 Sep 09 12:04	2° <b>ჲ</b> 32'36	15°25'50
				max. Earth dist.	14449 Sep 11 08:50	2° <b>£</b> 35′24	46.74487 AU
conjunction	14442 Sep 01 22:54	24° Mp 40'16	-14°53'37	retrograde	14449 Dec 19 20:57	4° <b>£</b> 08'54	
minimum elong	14442 Sep 01 22:55	24° Mp 40'16	14°53'48	min. Earth dist.	14450 Mar 11 06:15	3° <b>ჲ</b> 08'37	44.89825 AU
morning rise	14442 Sep 03 18:34	24° TD 43'04		opposition	14450 Mar 13 03:28	3° <b>≏</b> 06'24	-16°08'11
max. Earth dist.	14442 Sep 03 23:29		45.57680 AU	direct	14450 Jun 03 15:32	2° <b>≏</b> 04'10	
retrograde	14442 Dec 12 08:56	26° Mp 19'16					
min. Earth dist.	14443 Mar 03 08:30		43.73632 AU	conjunction	14450 Sep 10 20:03		-15°28'53
opposition	14443 Mar 05 08:54	25° Mp 15'50	-15°37'04	minimum elong	14450 Sep 10 20:10		15°28'55
direct	14443 May 26 18:05	24° Mp 12'32		max. Earth dist.	14450 Sep 12 17:26		46.90037 AU
evening set	14443 Sep 02 20:03	25° TQ 48'38		retrograde	14450 Dec 21 06:44	5° <b>≙</b> 14'11	
				min. Earth dist.	14451 Mar 12 16:33		45.05267 AU
conjunction	14443 Sep 03 08:24	25° m 49'25		opposition	14451 Mar 14 12:17		-16°11'07
minimum elong	14443 Sep 03 08:27	25° TQ 49'25	14°59'30	direct	14451 Jun 04 23:11	3° <b>≏</b> 09'47	
evening rise	14443 Sep 03 20:53	25° m 50'13	45.55400		144610 12 00 00	40.0 40.0	1.500.110.0
max. Earth dist.	14443 Sep 05 09:03		45.75420 AU	conjunction	14451 Sep 12 03:58		-15°31'39
retrograde	14443 Dec 13 17:22	27° m/28'00	42.01007 : **	minimum elong	14451 Sep 12 04:02		15°31'41
min. Earth dist.	14444 Mar 03 19:51		43.91225 AU	max. Earth dist.	14451 Sep 14 00:09		47.05273 AU
opposition	14444 Mar 05 19:06	26° Mp 24'43	-15°42'39	retrograde	14451 Dec 22 15:09	6° <b>£</b> 19'10	45 20261 137
direct	14444 May 27 06:57	25° Mp 21'34		min. Earth dist.	14452 Mar 13 00:50		45.20361 AU
	14444 0 00 15 15 1	260 - 2000	1,500,430	opposition	14452 Mar 14 20:54		-16°13'42
conjunction	14444 Sep 03 17:24	26° m 58'00		direct	14452 Jun 05 05:41	4° <b>£</b> 15'07	
minimum elong	14444 Sep 03 17:26	26° Mp 58'00			14450 0 12 11 12	50 <b>0</b> 4010 0	1.502.40.6
max. Earth dist.	14444 Sep 05 16:19		45.92717 AU	conjunction	14452 Sep 12 11:40		-15°34'06
retrograde	14444 Dec 14 04:59	28° Mp 36'11	44.00407 133	minimum elong	14452 Sep 12 11:47		15°34'06
min. Earth dist.	14445 Mar 05 05:34	35°22 (پائ <sup>-</sup> 11	44.08407 AU	max. Earth dist.	14452 Sep 14 07:08	5°±±51′11	47.20122 AU

retrograde	14452 Dec 22 21:58	7° <b>£</b> 23'53		direct	14461 Jun 15 09:57	13° <b>≏</b> 48'11	
min. Earth dist.	14453 Mar 14 11:02	6° <b>£</b> 23'56 45.	35047 AU	ancet	14401 Juli 13 07.37	13 = 40 11	
opposition	14453 Mar 16 05:31	6° <b>£</b> 21'52 -16		conjunction	14461 Sep 22 04:10	15° <b>≏</b> 18'51	-15°42'47
direct	14453 Jun 06 15:06	5° <b>£</b> 20′10	, 100,	minimum elong	14461 Sep 22 04:20	15° <b>Ω</b> 18'51	15°42'36
				max. Earth dist.	14461 Sep 23 16:40		48.33663 AU
conjunction	14453 Sep 13 19:32	6° <b>£</b> 53'14 -15	5°36'14	retrograde	14462 Jan 01 16:27	16° <b>Ω</b> 51'44	
minimum elong	14453 Sep 13 19:38	6° <b>£</b> 53'15 15		min. Earth dist.	14462 Mar 24 14:37	15° <b>≏</b> 52'28	46.46922 AU
max. Earth dist.	14453 Sep 15 14:42	6° <b>♀</b> 55'54 47.		opposition	14462 Mar 26 03:03	15° <b>≏</b> 50'44	
retrograde	14453 Dec 24 03:17	8° <b>≏</b> 28′20		direct	14462 Jun 16 14:12	14° <b>≙</b> 50'09	
min. Earth dist.	14454 Mar 15 20:07	7° <b>£</b> 28'30 45.	.49249 AU				
opposition	14454 Mar 17 13:44	7° <b>£</b> 26′29 -16	5°17'54	conjunction	14462 Sep 23 10:40	16° <b>≏</b> 20'33	-15°42'15
direct	14454 Jun 08 02:15	6° <b>£</b> 24'56		minimum elong	14462 Sep 23 10:48	16° <b>≏</b> 20'34	15°42'04
				max. Earth dist.	14462 Sep 24 22:43	16° <b>≏</b> 22'43	48.44533 AU
conjunction	14454 Sep 15 03:10	7° <b>£</b> 57'42 -15	5°38'05	retrograde	14463 Jan 02 22:24	17° <b>≏</b> 53'13	
minimum elong	14454 Sep 15 03:17	7° <b>♀</b> 57'43 15		min. Earth dist.	14463 Mar 25 23:23	16° <b>≙</b> 53'59	46.57626 AU
max. Earth dist.	14454 Sep 16 20:18	8° <b>♀</b> 00'14 47.		opposition	14463 Mar 27 10:15	16° <b>≏</b> 52'20	-16°21'48
retrograde	14454 Dec 25 12:57	9° <b>£</b> 32'31		direct	14463 Jun 17 19:59	15° <b>≏</b> 51'52	
min. Earth dist.	14455 Mar 17 04:57	8° <b>♀</b> 32'47 45.	.62943 AU				
opposition	14455 Mar 18 22:02	8° <b>♀</b> 30'48 -16		conjunction	14463 Sep 24 17:00	17° <b>≏</b> 22'02	-15°41'25
direct	14455 Jun 09 10:10	7° <b>£</b> 29'24	, 1,00	minimum elong	14463 Sep 24 17:11	17° <b>ഫ</b> 22'02	
	11.00 0011 05 10.10	, —2, 2 .		max. Earth dist.	14463 Sep 26 04:59		48.55080 AU
conjunction	14455 Sep 16 10:40	9° <b>≙</b> 01'51 -15		retrograde	14464 Jan 04 01:18	18° <b>≏</b> 54'28	10.55000710
minimum elong	14455 Sep 16 10:47		5°39'35	min. Earth dist.	14464 Mar 26 06:34		46.67964 AU
max. Earth dist.	14455 Sep 18 03:42	9° <b>2</b> 0131 13		opposition	14464 Mar 27 17:12	17° <b>⊆</b> 53'41	
retrograde	14455 Dec 26 21:28	9 <b>⊆</b> 0421 47. 10° <b>Ω</b> 36'23	.01632 AU	direct	14464 Jun 18 04:20	17 <b>⊆</b> 53'41 16° <b>⊆</b> 53'21	-10 20 42
min. Earth dist.	14456 Mar 17 15:01	9° <b>£</b> 36'40 45.	76104 AII	direct	14404 Juli 16 04.20	10 = 33 21	
	14456 Mar 19 06:14				14464 8 24 22.17	100 0 22117	15940110
opposition		9° <b>△</b> 34'47 -16	5-20-54	conjunction	14464 Sep 24 23:17	18° <b>£</b> 23'17	
direct	14456 Jun 09 18:44	8° <b>₾</b> 33'30		minimum elong	14464 Sep 24 23:26	18° <b>£</b> 23'18	
	14456 0 16 10 00	100 0 05120 15		max. Earth dist.	14464 Sep 26 09:31		48.65238 AU
conjunction	14456 Sep 16 18:00	10° <b>2</b> 05'38 -15		retrograde	14465 Jan 04 07:49	19° <b>£</b> 55'30	1.601.010.0
minimum elong	14456 Sep 16 18:08			opposition	14465 Mar 28 24:00	18° <b>≏</b> 54'50	
max. Earth dist.	14456 Sep 18 09:32	10° <b>£</b> 08'02 47.	.74753 AU	min. Earth dist.	14465 Mar 27 14:10		46.77900 AU
retrograde	14456 Dec 27 05:10	11° <b>≙</b> 39'52		direct	14465 Jun 19 11:54	17° <b>≏</b> 54'37	
min. Earth dist.	14457 Mar 18 22:45	10° <b>Ω</b> 40'15 45.					
opposition	14457 Mar 20 13:59	10° <b>△</b> 38'22 -16	5°21'58	conjunction	14465 Sep 26 05:41	19° <b>≏</b> 24'19	
direct	14457 Jun 11 00:09	9° <b>≏</b> 37'12		minimum elong	14465 Sep 26 05:53	19° <b>≏</b> 24'20	
				max. Earth dist.	14465 Sep 27 15:56		48.74957 AU
conjunction	14457 Sep 18 01:09	11° <b>≏</b> 09'01 -15	5°41'54	retrograde	14466 Jan 05 14:18	20° <b>≏</b> 56'21	
minimum elong	14457 Sep 18 01:17	11° <b>≏</b> 09'01 15		min. Earth dist.	14466 Mar 28 22:43		46.87349 AU
max. Earth dist.	14457 Sep 19 15:56	11° <b>£</b> 11'22 47.	.87196 AU	opposition	14466 Mar 30 06:48	19° <b>≏</b> 55'47	-16°17'42
retrograde	14457 Dec 28 11:28	12° <b>≏</b> 42'57		direct	14466 Jun 20 20:32	18° <b>≏</b> 55'40	
min. Earth dist.	14458 Mar 20 08:02	11° <b>≏</b> 43'21 46.					
opposition	14458 Mar 21 21:47	11° <b>≏</b> 41'32 -16	5°22'43	conjunction	14466 Sep 27 11:52	20° <b>≏</b> 25′08	-15°37'21
direct	14458 Jun 12 06:40	10° <b>≏</b> 40′29		minimum elong	14466 Sep 27 12:02	20° <b>≏</b> 25′08	
				max. Earth dist.	14466 Sep 28 20:16	20° <b>≏</b> 27'03	48.84178 AU
conjunction	14458 Sep 19 08:08	12° <b>≙</b> 12'00 -15	5°42'35	retrograde	14467 Jan 06 22:28	21° <b>≙</b> 56'56	
minimum elong	14458 Sep 19 08:16	12° <b>≙</b> 12'00 15	5°42'28	min. Earth dist.	14467 Mar 30 05:27	20° <b>ჲ</b> 57'58	46.96278 AU
max. Earth dist.	14458 Sep 20 22:49	12° <b>≙</b> 14'21 47.	.99269 AU	opposition	14467 Mar 31 13:26	20° <b>ჲ</b> 56′27	-16°15'49
retrograde	14458 Dec 29 15:25	13° <b>≏</b> 45'39		direct	14467 Jun 22 01:42	19° <b>≙</b> 56′26	
min. Earth dist.	14459 Mar 21 15:47	12° <b>≏</b> 46'08 46.	.12965 AU				
opposition	14459 Mar 23 05:16	12° <b>≏</b> 44'20 -16	5°23'10	conjunction	14467 Sep 28 18:03	21° <b>≏</b> 25'40	-15°35'30
direct		_		minimum elong		_	15025112
	14459 Jun 13 16:53	11° <b>≏</b> 43'23		minimum ciong	14467 Sep 28 18:15	21° <b>≏</b> 25'41	15 55 15
	14459 Jun 13 16:53	11° <b>≙</b> 43′23		max. Earth dist.	14467 Sep 28 18:15 14467 Sep 30 01:33		48.92865 AU
conjunction	14459 Jun 13 16:53 14459 Sep 20 14:53	11° <b>£</b> 43'23 13° <b>£</b> 14'36 -15			-		
conjunction minimum elong			5°42'57	max. Earth dist.	14467 Sep 30 01:33	21° <b>≏</b> 27'32	48.92865 AU
	14459 Sep 20 14:53	13° <b>£</b> 14'36 -15	5°42'57 5°42'49	max. Earth dist. retrograde	14467 Sep 30 01:33 14468 Jan 08 05:54	21° <b>£</b> 27'32 22° <b>£</b> 57'15 21° <b>£</b> 56'50	48.92865 AU
minimum elong	14459 Sep 20 14:53 14459 Sep 20 15:01	13° <b>♀</b> 14'36 -15 13° <b>♀</b> 14'36 15	5°42'57 5°42'49	max. Earth dist. retrograde opposition	14467 Sep 30 01:33 14468 Jan 08 05:54 14468 Mar 31 20:09	21° <b>£</b> 27'32 22° <b>£</b> 57'15 21° <b>£</b> 56'50	48.92865 AU -16°13'42
minimum elong max. Earth dist.	14459 Sep 20 14:53 14459 Sep 20 15:01 14459 Sep 22 04:07	13° <b>£</b> 14'36 -15 13° <b>£</b> 14'36 15 13° <b>£</b> 16'51 48.	5°42'57 5°42'49 .11018 AU	max. Earth dist. retrograde opposition min. Earth dist.	14467 Sep 30 01:33 14468 Jan 08 05:54 14468 Mar 31 20:09 14468 Mar 30 14:08	21°\pi27'32 22°\pi57'15 21°\pi56'50 21°\pi58'15	48.92865 AU -16°13'42
minimum elong max. Earth dist. retrograde	14459 Sep 20 14:53 14459 Sep 20 15:01 14459 Sep 22 04:07 14459 Dec 30 22:33	13° <b>£</b> 14'36 -15 13° <b>£</b> 14'36 15 13° <b>£</b> 16'51 48. 14° <b>£</b> 47'59	5°42'57 5°42'49 .11018 AU .24582 AU	max. Earth dist. retrograde opposition min. Earth dist.	14467 Sep 30 01:33 14468 Jan 08 05:54 14468 Mar 31 20:09 14468 Mar 30 14:08	21°\pi27'32 22°\pi57'15 21°\pi56'50 21°\pi58'15	48.92865 AU -16°13'42 47.04679 AU
minimum elong max. Earth dist. retrograde min. Earth dist.	14459 Sep 20 14:53 14459 Sep 20 15:01 14459 Sep 22 04:07 14459 Dec 30 22:33 14460 Mar 21 23:30	13° <b>Ω</b> 14'36 -15 13° <b>Ω</b> 14'36 15 13° <b>Ω</b> 16'51 48. 14° <b>Ω</b> 47'59 13° <b>Ω</b> 48'34 46.	5°42'57 5°42'49 .11018 AU .24582 AU	max. Earth dist. retrograde opposition min. Earth dist. direct	14467 Sep 30 01:33 14468 Jan 08 05:54 14468 Mar 31 20:09 14468 Mar 30 14:08 14468 Jun 22 06:16	21° \alpha 27'32 22° \alpha 57'15 21° \alpha 56'50 21° \alpha 58'15 20° \alpha 56'54	48.92865 AU -16°13'42 47.04679 AU -15°33'24
minimum elong max. Earth dist. retrograde min. Earth dist. opposition	14459 Sep 20 14:53 14459 Sep 20 15:01 14459 Sep 22 04:07 14459 Dec 30 22:33 14460 Mar 21 23:30 14460 Mar 23 12:45	13° <b>Ω</b> 14'36 -15 13° <b>Ω</b> 14'36 15 13° <b>Ω</b> 16'51 48. 14° <b>Ω</b> 47'59 13° <b>Ω</b> 48'34 46. 13° <b>Ω</b> 46'46 -16	5°42'57 5°42'49 .11018 AU .24582 AU 5°23'18	max. Earth dist. retrograde opposition min. Earth dist. direct conjunction	14467 Sep 30 01:33 14468 Jan 08 05:54 14468 Mar 31 20:09 14468 Mar 30 14:08 14468 Jun 22 06:16 14468 Sep 29 00:06 14468 Sep 29 00:17	21° \alpha 27'32 22° \alpha 57'15 21° \alpha 56'50 21° \alpha 58'15 20° \alpha 56'54 22° \alpha 25'54 22° \alpha 25'55	48.92865 AU -16°13'42 47.04679 AU -15°33'24
minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct	14459 Sep 20 14:53 14459 Sep 20 15:01 14459 Sep 22 04:07 14459 Dec 30 22:33 14460 Mar 21 23:30 14460 Mar 23 12:45 14460 Jun 14 01:46	13° <b>Ω</b> 14'36 -15 13° <b>Ω</b> 14'36 15 13° <b>Ω</b> 16'51 48. 14° <b>Ω</b> 47'59 13° <b>Ω</b> 48'34 46. 13° <b>Ω</b> 46'46 -16	5°42'57 5°42'49 .11018 AU .24582 AU 5°23'18	max. Earth dist. retrograde opposition min. Earth dist. direct conjunction minimum elong max. Earth dist.	14467 Sep 30 01:33 14468 Jan 08 05:54 14468 Mar 31 20:09 14468 Mar 30 14:08 14468 Jun 22 06:16	21° \alpha 27'32 22° \alpha 57'15 21° \alpha 56'50 21° \alpha 58'15 20° \alpha 56'54 22° \alpha 25'54 22° \alpha 25'55	48.92865 AU -16°13'42 47.04679 AU -15°33'24 15°33'06
minimum elong max. Earth dist. retrograde min. Earth dist. opposition	14459 Sep 20 14:53 14459 Sep 20 15:01 14459 Sep 22 04:07 14459 Dec 30 22:33 14460 Mar 21 23:30 14460 Mar 23 12:45 14460 Jun 14 01:46	13°\pma14'36 -15 13°\pma14'36 15 13°\pma16'51 48. 14°\pma47'59 13°\pma46'46 -16 12°\pma45'57	5°42'57 5°42'49 .11018 AU .24582 AU 5°23'18	max. Earth dist. retrograde opposition min. Earth dist. direct conjunction minimum elong	14467 Sep 30 01:33 14468 Jan 08 05:54 14468 Mar 31 20:09 14468 Mar 30 14:08 14468 Jun 22 06:16 14468 Sep 29 00:06 14468 Sep 29 00:17 14468 Sep 30 06:57	21° \( \Omega 27'32\) 22° \( \Omega 57'15\) 21° \( \Omega 56'50\) 21° \( \Omega 56'54\) 22° \( \Omega 25'54\) 22° \( \Omega 25'55\) 22° \( \Omega 27'43\) 23° \( \Omega 57'15\)	48.92865 AU -16°13'42 47.04679 AU -15°33'24 15°33'06
minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct	14459 Sep 20 14:53 14459 Sep 20 15:01 14459 Sep 22 04:07 14459 Dec 30 22:33 14460 Mar 21 23:30 14460 Mar 23 12:45 14460 Jun 14 01:46 14460 Sep 20 21:35 14460 Sep 20 21:43	13°\(\Omega\)14'36 -15 13°\(\Omega\)14'36 15 13°\(\Omega\)16'51 48. 14°\(\Omega\)48'34 46. 13°\(\Omega\)46'46 -16 12°\(\Omega\)45'57  14°\(\Omega\)16'52 -15 14°\(\Omega\)16'53 15	5°42'57 5°42'49 .11018 AU .24582 AU 5°23'18 5°43'02 5°42'53	max. Earth dist. retrograde opposition min. Earth dist. direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist.	14467 Sep 30 01:33 14468 Jan 08 05:54 14468 Mar 31 20:09 14468 Mar 30 14:08 14468 Jun 22 06:16 14468 Sep 29 00:06 14468 Sep 29 00:17 14468 Sep 30 06:57 14469 Jan 08 09:19 14469 Mar 31 20:52	21° \( \Omega 27'32\) 22° \( \Omega 57'15\) 21° \( \Omega 56'50\) 21° \( \Omega 56'54\) 22° \( \Omega 25'54\) 22° \( \Omega 25'55\) 22° \( \Omega 27'43\) 23° \( \Omega 57'15\) 22° \( \Omega 58'18\)	48.92865 AU -16°13'42 47.04679 AU -15°33'24 15°33'06 49.01051 AU 47.12577 AU
minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist.	14459 Sep 20 14:53 14459 Sep 20 15:01 14459 Sep 22 04:07 14459 Dec 30 22:33 14460 Mar 21 23:30 14460 Mar 23 12:45 14460 Jun 14 01:46 14460 Sep 20 21:35 14460 Sep 20 21:43 14460 Sep 22 11:24	13°\(\Omega\)14'36 -15 13°\(\Omega\)14'36 15 13°\(\Omega\)16'51 48. 14°\(\Omega\)48'34 46. 13°\(\Omega\)46'46 -16 12°\(\Omega\)45'57  14°\(\Omega\)16'52 -15 14°\(\Omega\)16'53 15 14°\(\Omega\)19'09 48.	5°42'57 5°42'49 .11018 AU .24582 AU 5°23'18 5°43'02 5°42'53 .22482 AU	max. Earth dist. retrograde opposition min. Earth dist. direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition	14467 Sep 30 01:33 14468 Jan 08 05:54 14468 Mar 31 20:09 14468 Mar 30 14:08 14468 Jun 22 06:16 14468 Sep 29 00:06 14468 Sep 29 00:17 14468 Sep 30 06:57 14469 Jan 08 09:19 14469 Mar 31 20:52 14469 Apr 02 02:32	21° \( \Omega \) 27'32 22° \( \Omega \) 57'15 21° \( \Omega \) 56'50 21° \( \Omega \) 56'54 22° \( \Omega \) 25'54 22° \( \Omega \) 25'55 22° \( \Omega \) 27'43 23° \( \Omega \) 57'15 22° \( \Omega \) 58'18 22° \( \Omega \) 56'54	48.92865 AU -16°13'42 47.04679 AU -15°33'24 15°33'06 49.01051 AU 47.12577 AU
minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist. retrograde	14459 Sep 20 14:53 14459 Sep 20 15:01 14459 Sep 22 04:07 14459 Dec 30 22:33 14460 Mar 21 23:30 14460 Mar 23 12:45 14460 Jun 14 01:46 14460 Sep 20 21:35 14460 Sep 20 21:43 14460 Sep 22 11:24 14460 Dec 31 06:57	13°\(\Omega\)14'36 -15 13°\(\Omega\)14'36 15 13°\(\Omega\)16'51 48. 14°\(\Omega\)48'34 46. 13°\(\Omega\)46'46 -16 12°\(\Omega\)45'57  14°\(\Omega\)16'53 15 14°\(\Omega\)16'53 15 14°\(\Omega\)15'\(\Omega\)50'01	5°42'57 5°42'49 .11018 AU .24582 AU 5°23'18 5°43'02 5°42'53 .22482 AU	max. Earth dist. retrograde opposition min. Earth dist. direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist.	14467 Sep 30 01:33 14468 Jan 08 05:54 14468 Mar 31 20:09 14468 Mar 30 14:08 14468 Jun 22 06:16 14468 Sep 29 00:06 14468 Sep 29 00:17 14468 Sep 30 06:57 14469 Jan 08 09:19 14469 Mar 31 20:52	21° \( \Omega 27'32\) 22° \( \Omega 57'15\) 21° \( \Omega 56'50\) 21° \( \Omega 56'54\) 22° \( \Omega 25'54\) 22° \( \Omega 25'55\) 22° \( \Omega 27'43\) 23° \( \Omega 57'15\) 22° \( \Omega 58'18\)	48.92865 AU -16°13'42 47.04679 AU -15°33'24 15°33'06 49.01051 AU 47.12577 AU
minimum elong max. Earth dist. retrograde min. Earth dist. opposition direct  conjunction minimum elong max. Earth dist.	14459 Sep 20 14:53 14459 Sep 20 15:01 14459 Sep 22 04:07 14459 Dec 30 22:33 14460 Mar 21 23:30 14460 Mar 23 12:45 14460 Jun 14 01:46 14460 Sep 20 21:35 14460 Sep 20 21:43 14460 Sep 22 11:24	13°\(\Omega\)14'36 -15 13°\(\Omega\)14'36 15 13°\(\Omega\)16'51 48. 14°\(\Omega\)48'34 46. 13°\(\Omega\)46'46 -16 12°\(\Omega\)45'57  14°\(\Omega\)16'52 -15 14°\(\Omega\)16'53 15 14°\(\Omega\)19'09 48.	5°42'57 5°42'49 .11018 AU .24582 AU 5°23'18 5°43'02 5°42'53 .22482 AU	max. Earth dist. retrograde opposition min. Earth dist. direct conjunction minimum elong max. Earth dist. retrograde min. Earth dist. opposition	14467 Sep 30 01:33 14468 Jan 08 05:54 14468 Mar 31 20:09 14468 Mar 30 14:08 14468 Jun 22 06:16 14468 Sep 29 00:06 14468 Sep 29 00:17 14468 Sep 30 06:57 14469 Jan 08 09:19 14469 Mar 31 20:52 14469 Apr 02 02:32	21° \( \Omega \) 27'32 22° \( \Omega \) 57'15 21° \( \Omega \) 56'50 21° \( \Omega \) 56'54 22° \( \Omega \) 25'54 22° \( \Omega \) 25'55 22° \( \Omega \) 27'43 23° \( \Omega \) 57'15 22° \( \Omega \) 58'18 22° \( \Omega \) 56'54	48.92865 AU -16°13'42 47.04679 AU -15°33'24 15°33'06 49.01051 AU 47.12577 AU -16°11'20

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minimum elong	14469 Sep 30 06:09	23° <b>£</b> 25'48 15°30'46	conjunction	14477 Oct 08 01:53	1°M17'24 -15°03'01
max. Earth dist.	14469 Oct 01 11:04	23° <b>£</b> 27'30 49.08764 AU	minimum elong	14477 Oct 08 02:05	1°M17'25 15°02'34
retrograde	14470 Jan 09 14:21	24° <b>£</b> 56'56	max. Earth dist.	14477 Oct 09 02:00	1°ML18'48 49.58677 AU
min. Earth dist.	14470 Apr 02 04:04	23° <b>£</b> 57'58 47.20054 AU	retrograde	14478 Jan 17 15:38	2°M47'24
opposition	14470 Apr 03 08:44	23° <b>2</b> 56'37 -16°08'42	min. Earth dist.	14478 Apr 10 09:25	1°ML48'47 47.68131 AU
direct	14470 Jun 24 21:08	22° <b>2</b> 56'48	opposition	14478 Apr 11 07:50	1°M47'44 -15°38'03
unect	144/0 Juli 24 21.06	22 = 30 46	direct	14478 Jul 02 17:32	0°M48'37
	14470 0-+ 01 11-40	249 0 25121 15929120			
conjunction	14470 Oct 01 11:48	24° <b>£</b> 25'21 -15°28'29	evening set	14478 Oct 08 06:18	2°M14'32
minimum elong	14470 Oct 01 12:00	24° <b>2</b> 25′21 15°28′09		14470 0 + 00 07 01	20 <b>W</b> 15150 14050125
max. Earth dist.	14470 Oct 02 17:17	24° <b>2</b> 27'05 49.16089 AU	conjunction	14478 Oct 09 07:21	2°M15'59 -14°58'25
retrograde	14471 Jan 10 19:50	25° <b>£</b> 56'18	minimum elong	14478 Oct 09 07:34	2°M16'00 14°57'57
min. Earth dist.	14471 Apr 03 11:25	24° <b>£</b> 57'21 47.27163 AU	morning rise	14478 Oct 10 08:53	2°M17'28
opposition	14471 Apr 04 14:59	24° <b>£</b> 56'03 -16°05'49	max. Earth dist.	14478 Oct 10 06:43	2°M17'20 49.63218 AU
direct	14471 Jun 26 05:49	23° <b>≏</b> 56'17	retrograde	14479 Jan 18 19:40	3°M45'52
			opposition	14479 Apr 12 13:29	2°M46'16 -15°33'06
conjunction	14471 Oct 02 17:17	25° <b>≏</b> 24'38 -15°25'38	min. Earth dist.	14479 Apr 11 15:24	2°ML47'18 47.72326 AU
minimum elong	14471 Oct 02 17:29	25° <b>△</b> 24'39 15°25'18	direct	14479 Jul 03 21:19	1° <b>M</b> 47'13
max. Earth dist.	14471 Oct 03 21:25	25° <b>≏</b> 26'17 49.23092 AU	evening set	14479 Oct 08 14:27	3°M11'46
retrograde	14472 Jan 12 04:12	26° <b>♀</b> 55'24			
opposition	14472 Apr 04 21:03	25° <b>≏</b> 55'13 -16°02'39	conjunction	14479 Oct 10 12:32	3°M14'27 -14°53'36
min. Earth dist.	14472 Apr 03 17:06	25° <b>≏</b> 56'32 47.33970 AU	minimum elong	14479 Oct 10 12:45	3°ML14'28 14°53'07
direct	14472 Jun 26 10:02	24° <b>≏</b> 55'32	max. Earth dist.	14479 Oct 11 09:53	3°ML15'41 49.67220 AU
			morning rise	14479 Oct 12 11:07	3° <b>M</b> ₊17'09
conjunction	14472 Oct 02 22:54	26° <b>-</b> 23'42 -15°22'31	retrograde	14480 Jan 20 00:03	4°M44'13
minimum elong	14472 Oct 02 23:06	26° <b>△</b> 23'43 15°22'09	opposition	14480 Apr 12 19:12	3°ML44'39 -15°27'57
max. Earth dist.	14472 Oct 04 02:42	26° <b>≏</b> 25'20 49.29796 AU	min. Earth dist.	14480 Apr 11 22:32	3°ML45'37 47.75989 AU
retrograde	14473 Jan 12 10:24	27° <b>£</b> 54'18	direct	14480 Jul 04 04:12	2°M45'39
min. Earth dist.	14473 Apr 05 00:38	26° <b>£</b> 55'26 47.40490 AU	evening set	14480 Oct 08 05:19	4°M09'14
opposition	14473 Apr 06 03:00	26° <b>£</b> 54'12 -15°59'12	evening sec	11.00 000 00.15	1 11000 2 1
direct	14473 Jun 27 14:11	25° <b>£</b> 54'36	conjunction	14480 Oct 10 17:56	4°M12'44 -14°48'34
direct	144/3 Juli 2/ 14.11	25 = 54 50	minimum elong	14480 Oct 10 17:30	4°ML12'45 14°48'05
conjunction	14473 Oct 04 04:27	27° <b>2</b> 22'36 -15°19'08	max. Earth dist.	14480 Oct 11 15:11	4°ML13'58 49.70693 AU
minimum elong	14473 Oct 04 04:39	27° <b>2</b> 22'37 15°18'46	morning rise	14480 Oct 13 07:05	4°M16'17
max. Earth dist.	14473 Oct 04 04:39	27° <b>2</b> 24'13 49.36233 AU	retrograde	14481 Jan 20 02:58	5°M42'23
	14474 Jan 13 13:06	28° <b>2</b> 53'03	min. Earth dist.		4°M43'44 47.79126 AU
retrograde min. Earth dist.				14481 Apr 13 05:22	
	14474 Apr 06 06:19	27° <b>2</b> 54'16 47.46717 AU	opposition	14481 Apr 14 00:36	4°M42'51 -15°22'35
opposition	14474 Apr 07 08:48	27° <b>♀</b> 53'01 -15°55'29	direct	14481 Jul 05 13:40	3°M43'52
direct	14474 Jun 28 20:15	26° <b>£</b> 53'31	evening set	14481 Oct 08 22:22	5°M06'36
	14474 0 + 05 00 42	200 6 21/22 15015/20		14401 0 4 11 22 05	50 <b>M</b> 10140 14042120
conjunction	14474 Oct 05 09:43	28° <b>£</b> 21'23 -15°15'29	conjunction	14481 Oct 11 23:05	5°M10'49 -14°43'20
minimum elong	14474 Oct 05 09:56	28° <b>£</b> 21'24 15°15'04	minimum elong	14481 Oct 11 23:18	5°M10'50 14°42'49
max. Earth dist.	14474 Oct 06 11:52	28° <b>£</b> 22'55 49.42369 AU	max. Earth dist.	14481 Oct 12 18:30	5°M11'56 49.73685 AU
retrograde	14475 Jan 14 18:03	29° <b>£</b> 51'43	morning rise	14481 Oct 15 00:20	5°M15'03
opposition	14475 Apr 08 14:41	28° <b>£</b> 51'46 -15°51'30	retrograde	14482 Jan 21 10:40	6°M40'19
min. Earth dist.	14475 Apr 07 12:54	28° <b>£</b> 52'59 47.52645 AU	min. Earth dist.	14482 Apr 14 10:48	5°M41'42 47.81815 AU
direct	14475 Jun 30 02:39	27° <b>£</b> 52′22	opposition	14482 Apr 15 05:58	5°ML40'48 -15°17'00
			direct	14482 Jul 06 18:51	4°M41'50
conjunction	14475 Oct 06 15:11	29° <b>≏</b> 20'06 -15°11'34	evening set	14482 Oct 09 16:38	6°M03'51
minimum elong	14475 Oct 06 15:23	29° <b>≙</b> 20'07 15°11'10			
max. Earth dist.	14475 Oct 07 17:40	29° <b>≙</b> 21'39 49.48192 AU	conjunction	14482 Oct 13 04:05	6°ML08'39 -14°37'52
	14475 Nov 05 03:20	0° <b>M</b>	minimum elong	14482 Oct 13 04:18	6°ML08'40 14°37'21
retrograde	14476 Jan 15 23:25	0°ML50'19	max. Earth dist.	14482 Oct 13 23:00	6°ML09'45 49.76246 AU
	14476 Mar 31 07:48	30° <b>₹</b>	morning rise	14482 Oct 16 16:06	6°M13'30
opposition	14476 Apr 08 20:29	29° <b>≙</b> 50'28 -15°47'16	retrograde	14483 Jan 22 17:46	7° <b>M</b> 38′02
min. Earth dist.	14476 Apr. 07 10:57	29° <b>£</b> 51'37 47.58225 AU	opposition	14483 Apr 16 11:25	6°M38'32 -15°11'11
direct	14476 Apr 07 19:57				
	14476 Apr 07 19.37 14476 Jun 30 10:17	28° <b>≙</b> 51'10	min. Earth dist.	14483 Apr 15 18:04	6°MJ39'20 47.84112 AU
	*		min. Earth dist. direct	14483 Apr 15 18:04 14483 Jul 07 23:06	
	14476 Jun 30 10:17	28° <b>≙</b> 51'10		•	6°M39'20 47.84112 AU
conjunction	14476 Jun 30 10:17	28° <b>≙</b> 51'10	direct	14483 Jul 07 23:06	6°M39'20 47.84112 AU 5°M39'36
conjunction minimum elong	14476 Jun 30 10:17 14476 Sep 23 07:43	28° <b>♀</b> 51'10 0° <b>™</b>	direct	14483 Jul 07 23:06	6°M39'20 47.84112 AU 5°M39'36
3	14476 Jun 30 10:17 14476 Sep 23 07:43 14476 Oct 06 20:28	28° \$\Omega 51'10 \\ 0° \$\mathbb{M}\$.  0° \$\mathbb{M}\$.18'46 -15° 07'25	direct evening set	14483 Jul 07 23:06 14483 Oct 10 11:54	6°M39'20 47.84112 AU 5°M39'36 7°M00'54
minimum elong	14476 Jun 30 10:17 14476 Sep 23 07:43 14476 Oct 06 20:28 14476 Oct 06 20:42	28° \$\Omega 51'10 \\ 0° M. \\ 0° M. \\ 0° M. \\ 0° M. \\ 18'46 \ \ -15° 07'25 \\ 0° M. \\ 18'47 \ \ \ 15° 06'59	direct evening set conjunction	14483 Jul 07 23:06 14483 Oct 10 11:54 14483 Oct 14 09:08	6°M39'20 47.84112 AU 5°M39'36 7°M00'54 7°M06'17 -14°32'10
minimum elong max. Earth dist.	14476 Jun 30 10:17 14476 Sep 23 07:43 14476 Oct 06 20:28 14476 Oct 06 20:42 14476 Oct 07 21:27	28° \( \Omega \)51'10 0° \( \mathref{M} \)  0° \( \mathref{M} \)18'46 -15° 07'25 0° \( \mathref{M} \)18'47 15° 06'59 0° \( \mathref{M} \)20'13 49.53655 AU	direct evening set  conjunction minimum elong	14483 Jul 07 23:06 14483 Oct 10 11:54 14483 Oct 14 09:08 14483 Oct 14 09:22	6°M39'20 47.84112 AU 5°M39'36 7°M00'54 7°M06'17 -14°32'10 7°M06'17 14°31'37
minimum elong max. Earth dist. retrograde min. Earth dist.	14476 Jun 30 10:17 14476 Sep 23 07:43 14476 Oct 06 20:28 14476 Oct 06 20:42 14476 Oct 07 21:27 14477 Jan 16 07:38	28° \( \Omega \)51'10 0° \( \mathref{M} \).  0° \( \mathref{M} \)18'46 \ -15°07'25 0° \( \mathref{M} \)18'47 \ 15°06'59 0° \( \mathref{M} \)20'13 \ 49.53655 AU 1° \( \mathref{M} \)48'53	direct evening set  conjunction minimum elong max. Earth dist.	14483 Jul 07 23:06 14483 Oct 10 11:54 14483 Oct 14 09:08 14483 Oct 14 09:22 14483 Oct 15 03:48	6°M39'20 47.84112 AU 5°M39'36 7°M00'54 7°M06'17 -14°32'10 7°M06'17 14°31'37 7°M07'21 49.78463 AU
minimum elong max. Earth dist. retrograde	14476 Jun 30 10:17 14476 Sep 23 07:43 14476 Oct 06 20:28 14476 Oct 06 20:42 14476 Oct 07 21:27 14477 Jan 16 07:38 14477 Apr 09 01:41	28° \( \Omega \)51'10 0° \( \mathred{M} \).  0° \( \mathred{M} \)18'46 -15° 07'25 0° \( \mathred{M} \)18'47 15° 06'59 0° \( \mathred{M} \)20'13 49.53655 AU 1° \( \mathred{M} \)48'53 0° \( \mathred{M} \)50'16 47.63412 AU	direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	14483 Jul 07 23:06 14483 Oct 10 11:54 14483 Oct 14 09:08 14483 Oct 14 09:22 14483 Oct 15 03:48 14483 Oct 18 06:58	6°M39'20 47.84112 AU 5°M39'36 7°M00'54 7°M06'17 -14°32'10 7°M06'17 14°31'37 7°M07'21 49.78463 AU 7°M11'41
minimum elong max. Earth dist. retrograde min. Earth dist. opposition	14476 Jun 30 10:17 14476 Sep 23 07:43 14476 Oct 06 20:28 14476 Oct 06 20:42 14476 Oct 07 21:27 14477 Jan 16 07:38 14477 Apr 09 01:41 14477 Apr 10 02:10 14477 May 31 14:58	28°£51'10 0°M.  0°M.18'46 -15°07'25 0°M.18'47 15°06'59 0°M.20'13 49.53655 AU 1°M.48'53 0°M.50'16 47.63412 AU 0°M.49'08 -15°42'46	direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition	14483 Jul 07 23:06 14483 Oct 10 11:54 14483 Oct 14 09:08 14483 Oct 14 09:22 14483 Oct 15 03:48 14483 Oct 18 06:58 14484 Jan 23 21:00 14484 Apr 16 16:37	6°M39'20 47.84112 AU 5°M39'36 7°M00'54 7°M06'17 -14°32'10 7°M06'17 14°31'37 7°M07'21 49.78463 AU 7°M11'41 8°M35'32 7°M36'03 -15°05'07
minimum elong max. Earth dist. retrograde min. Earth dist.	14476 Jun 30 10:17 14476 Sep 23 07:43 14476 Oct 06 20:28 14476 Oct 06 20:42 14476 Oct 07 21:27 14477 Jan 16 07:38 14477 Apr 09 01:41 14477 Apr 10 02:10	28° <b>£</b> 51'10 0° <b>M</b> . 0° <b>M</b> .18'46 -15°07'25 0° <b>M</b> .18'47 15°06'59 0° <b>M</b> .20'13 49.53655 AU 1° <b>M</b> .48'53 0° <b>M</b> .50'16 47.63412 AU 0° <b>M</b> .49'08 -15°42'46 30° <b>R</b> . <b>£</b>	direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	14483 Jul 07 23:06 14483 Oct 10 11:54 14483 Oct 14 09:08 14483 Oct 14 09:22 14483 Oct 15 03:48 14483 Oct 18 06:58 14484 Jan 23 21:00	6°M39'20 47.84112 AU 5°M39'36 7°M00'54 7°M06'17 -14°32'10 7°M06'17 14°31'37 7°M07'21 49.78463 AU 7°M11'41 8°M35'32

evening set	14484 Oct 10 07:36	7° <b>M</b> 57'49	retrograde	14491 Jan 30 06:47	15° <b>M</b> .15'59
				14491 Mar 11 12:31	15°RM.
conjunction	14484 Oct 14 14:01	8°M03'43 -14°26'1	11	14491 Apr 24 04:40	14°ML16'45 -14°15'57
minimum elong	14484 Oct 14 14:14	8°M03'44 14°25'4		14491 Apr 23 17:39	14°ML17'16 47.90078 AU
max. Earth dist.	14484 Oct 15 07:04	8°ML04'42 49.8035		14491 Jul 15 15:40	13°ML18'08
morning rise	14484 Oct 18 21:04	8°M09'39	evening set	14491 Oct 15 12:01	14°ML35'23
retrograde	14485 Jan 24 00:41	9°M32'53			
opposition	14485 Apr 17 21:54	8°M33'25 -14°58'4	•	14491 Oct 22 00:40	14°M44'21 -13°38'16
min. Earth dist.	14485 Apr 17 05:17	8°M34'11 47.8772	Č	14491 Oct 22 00:54	14°M.44'22 13°37'37
direct	14485 Jul 09 07:51	7°M.34'31	max. Earth dist.	14491 Oct 22 11:30	14°M.44'59 49.83637 AU
evening set	14485 Oct 11 03:53	8°M54'37	morning rise	14491 Oct 28 14:12	14°M.53'23
	14405.0 + 15 10.00	00 <b>M</b> 01101 140 <b>2</b> 010	4	14491 Nov 02 10:50	15°M
conjunction	14485 Oct 15 19:02	9°M.01'01 -14°20'0	•	14492 Jan 31 14:02	16°M.13'14
minimum elong	14485 Oct 15 19:16	9°M.01'02 14°19'2	11	14492 Apr 24 09:44	15°M.14'02 -14°08'04
max. Earth dist.	14485 Oct 16 12:28	9°M02'01 49.8194	4 AU min. Earth dist.	14492 Apr 23 23:14	15°M.14'31 47.88788 AU
morning rise	14485 Oct 20 10:49	9°M07'27	direct	14492 May 07 03:36	15°RM 14°M15'25
retrograde min. Earth dist.	14486 Jan 25 03:58	10°M30'06 9°M31'23 47.8906		14492 Jul 15 20:35	
	14486 Apr 18 11:19	9°M30'40 -14°52'1		14492 Sep 20 15:52 14492 Oct 15 10:05	15°M 15°M32'15
opposition direct	14486 Apr 19 03:00 14486 Jul 10 15:20	8°M31'48	4 evening set	14492 Oct 13 10.03	13 11632 13
evening set	14486 Oct 12 00:31	9°ML51'22	conjunction	14492 Oct 22 05:41	15°M41'36 -13°30'35
evening set	14480 OCt 12 00.31	9 11631 22	minimum elong	14492 Oct 22 05:54	15°M41'37 13°29'55
conjunction	14486 Oct 16 23:54	9°ML58'13 -14°13'3	· ·	14492 Oct 22 05:34 14492 Oct 22 15:30	15°ML42'10 49.82178 AU
minimum elong	14486 Oct 17 00:07	9°ML58'14 14°13'0		14492 Oct 22 13:30 14492 Oct 29 02:07	15°M51'01
max. Earth dist.	14486 Oct 17 00:07	9°M.59'08 49.8323		14492 Oct 29 02:07 14493 Jan 31 22:02	17°ML10'28
morning rise	14486 Oct 21 23:57	10°ML05'07	opposition	14493 Apr 25 14:53	16°M11'15 -13°59'59
retrograde	14487 Jan 26 10:37	10 ML27'15	min. Earth dist.	14493 Apr 25 06:32	16°M11'38 47.86957 AU
opposition	14487 Apr 20 08:10	10°M27'51 -14°45'2		14493 Apr 23 00:32 14493 Jul 17 00:26	15°M12'38
min. Earth dist.	14487 Apr 19 16:23	10°M28'35 47.9009		14493 Oct 16 08:28	16°M29'03
direct	14487 Jul 11 20:21	9°M29'03	o Ao evening set	14475 OCT 10 00.20	10 11027 03
evening set	14487 Oct 12 21:18	10°M48'05	conjunction	14493 Oct 23 10:39	16°M.38'47 -13°22'43
evening set	1448/ Oct 12 21.18	10 1104003	minimum elong	14493 Oct 23 10:53	16°M38'48 13°22'03
conjunction	14487 Oct 18 04:42	10°ML55'24 -14°07'0	Č	14493 Oct 23 19:49	16°M39'19 49.80218 AU
minimum elong	14487 Oct 18 04:57	10°M 55'24 14°06'2		14493 Oct 30 13:40	16°M48'34
max. Earth dist.	14487 Oct 18 04.37	10°M 56'17 49.8418	_	14494 Feb 02 01:31	18°ML07'36
morning rise	14487 Oct 23 12:52	11°M02'45	opposition	14494 Apr 26 19:44	17°M08'23 -13°51'43
retrograde	14488 Jan 27 17:59	12°M24'23	min. Earth dist.	14494 Apr 26 11:28	17° ML08'46 47.84647 AU
opposition	14488 Apr 20 13:25	11°M25'02 -14°38'2		14494 Jul 18 04:09	16°M09'45
min. Earth dist.	14488 Apr 19 23:22	11°M25'41 47.9076		14494 Oct 17 06:49	17°M25'47
direct	14488 Jul 12 00:05	10°M26'17	1 AO CVCIIIII SCL	14474 001 17 00.47	17 11025 47
evening set	14488 Oct 12 18:37	11°M44'50	conjunction	14494 Oct 24 15:27	17°M25'53 -13°14'38
evening sec	11100 000 12 10.57	11 1101130	minimum elong	14494 Oct 24 15:41	17°ML35'54 13°13'56
conjunction	14488 Oct 18 09:42	11°M52'35 -14°00'0	_	14494 Oct 24 22:48	17°ML36'18 49.77815 AU
minimum elong	14488 Oct 18 09:55	11°M52'36 13°59'3		14494 Nov 01 01:05	17°M46'02
max. Earth dist.	14488 Oct 19 00:44	11°ML53'27 49.8476		14495 Feb 03 04:59	19° <b>M</b> .04'40
morning rise	14488 Oct 24 01:28	12° <b>™</b> 00′22	opposition	14495 Apr 28 00:48	18°ML05'26 -13°43'12
retrograde	14489 Jan 27 22:46	13°M21'31	min. Earth dist.	14495 Apr 27 17:47	18°ML05'46 47.81945 AU
opposition	14489 Apr 21 18:20	12°M22'14 -14°31'0	6 direct	14495 Jul 19 08:19	17° <b>M</b> L06'47
min. Earth dist.	14489 Apr 21 04:28	12°M22'52 47.9102	4 AU evening set	14495 Oct 18 05:09	18° <b>M</b> 22'27
direct	14489 Jul 13 02:44	11°M23'31			
evening set	14489 Oct 13 16:10	12° <b>M</b> .41'38	conjunction	14495 Oct 25 20:16	18°MJ32'54 -13°06'21
S			minimum elong	14495 Oct 25 20:30	18°M32'55 13°05'39
conjunction	14489 Oct 19 14:39	12°M49'49 -13°53'0	2 max. Earth dist.	14495 Oct 26 03:59	18°M33'21 49.75042 AU
minimum elong	14489 Oct 19 14:53	12°M49'49 13°52'2	5 morning rise	14495 Nov 02 12:15	18°ML43'25
max. Earth dist.	14489 Oct 20 03:45	12°M50'34 49.8490	Č	14496 Feb 04 07:24	20°M01'41
morning rise	14489 Oct 25 13:59	12°M58'01	opposition	14496 Apr 28 05:47	19°ML02'26 -13°34'28
retrograde	14490 Jan 29 04:06	14° <b>M</b> .18'44	min. Earth dist.	14496 Apr 27 23:37	19°ML02'43 47.78883 AU
opposition	14490 Apr 22 23:30	13°M19'29 -14°23'3		14496 Jul 19 16:03	18°ML03'46
min. Earth dist.	14490 Apr 22 11:14	13°M20'03 47.9082		14496 Oct 18 03:51	19° <b>M</b> .19'04
direct	14490 Jul 14 07:24	12° <b>™</b> 20'49	<i>5</i>		
evening set	14490 Oct 14 13:52	13°M38'30	conjunction	14496 Oct 26 01:05	19°M29'52 -12°57'49
<b>3</b>			minimum elong	14496 Oct 26 01:19	19°M29'53 12°57'06
conjunction	14490 Oct 20 19:39	13°M47'04 -13°45'4	Č	14496 Oct 26 07:20	19°M30'14 49.71947 AU
minimum elong	14490 Oct 20 19:52	13°M47'05 13°45'0		14496 Nov 02 23:21	19°M40'44
max. Earth dist.	14490 Oct 21 08:32	13°M47'49 49.8454		14497 Feb 04 13:28	20°M58'39
morning rise	14490 Oct 27 02:09	13°M.55'42	opposition	14497 Apr 29 10:32	19°M59'23 -13°25'30
	14490 Dec 21 21:49	15°M	min. Earth dist.	14497 Apr 29 04:22	19° <b>M</b> .59'41 47.75519 AU
	= =			r> V22	

direct	14497 Jul 20 21:12	19°M00'43	retrograde	14504 Feb 13 05:21	27°M38'53
evening set	14497 Oct 19 02:27	20°M15'40	opposition	14504 May 06 21:28	26°M39'33 -12°16'20
			min. Earth dist.	14504 May 06 21:34	26°M39'32 47.42063 AU
conjunction	14497 Oct 27 05:56	20°M26'49 -12°49'04	direct	14504 Jul 28 04:18	25°M40'47
minimum elong	14497 Oct 27 06:09	20°M26'50 12°48'21	evening set	14504 Oct 24 21:09	26°M53'43
max. Earth dist.	14497 Oct 27 11:35	20°M27'09 49.68541 AU 20°M38'03	agniumation	14504 Nov. 02 16:45	270M 07!11 11041!42
morning rise retrograde	14497 Nov 04 10:27 14498 Feb 05 20:55	20 11638 03 21°M655'37	conjunction minimum elong	14504 Nov 03 16:45 14504 Nov 03 16:58	27°M07'11 -11°41'42 27°M07'12 11°40'54
opposition	14498 Apr 30 15:32	20°ML56'21 -13°16'18	max. Earth dist.	14504 Nov 03 15:05	27° ML07'05 49.34503 AU
min. Earth dist.	14498 Apr 30 10:56	20°M.56'34 47.71849 AU	morning rise	14504 Nov 13 13:44	27° <b>M</b> 20'44
direct	14498 Jul 22 01:37	19° <b>M</b> .57'41	retrograde	14505 Feb 13 10:38	28°M36'18
evening set	14498 Oct 20 01:11	21°M12'18	opposition	14505 May 08 02:27	27°ML36'55 -12°05'37
			min. Earth dist.	14505 May 08 04:22	27°M36'49 47.35407 AU
conjunction	14498 Oct 28 10:40	21°M23'48 -12°40'05	direct	14505 Jul 29 07:38	26°M38'05
minimum elong	14498 Oct 28 10:55	21°M23'49 12°39'20	evening set	14505 Oct 25 20:54	27°M50'46
max. Earth dist.	14498 Oct 28 16:14	21°M24'07 49.64851 AU			
morning rise	14498 Nov 05 21:09	21°M35'22	conjunction	14505 Nov 04 21:58	28°M04'33 -11°31'16
retrograde	14499 Feb 07 03:10	22°M.52'37	minimum elong	14505 Nov 04 22:11	28°M.04'34 11°30'26
opposition	14499 May 01 20:26	21°M.53'21 -13°06'51	max. Earth dist.	14505 Nov 04 20:17	28°M.04'27 49.27733 AU
min. Earth dist.	14499 May 01 15:32	21°M53'34 47.67879 AU	morning rise	14505 Nov 15 00:12	28°M18'24
direct	14499 Jul 23 03:06	20°M54'40	retrograde	14506 Feb 14 12:52	29°M33'43
evening set	14499 Oct 21 00:04	22°M08'59	opposition min. Earth dist.	14506 May 09 07:30 14506 May 09 10:20	28°M34'15 -11°54'41 28°M34'07 47.28278 AU
conjunction	14499 Oct 29 15:27	22°ML20'50 -12°30'53	direct	14506 Jul 30 14:52	27°M35'22
minimum elong	14499 Oct 29 15:40	22°M20'50 12°30'08	evening set	14506 Oct 26 20:44	28°M47'49
max. Earth dist.	14499 Oct 29 19:22	22°M21'03 49.60848 AU	evening sec	11300 000 20 20.11	20 110 17 19
morning rise	14499 Nov 07 08:02	22°M32'44	conjunction	14506 Nov 06 02:55	29°ML01'53 -11°20'37
retrograde	14500 Feb 08 08:52	23° <b>M</b> 49'41	minimum elong	14506 Nov 06 03:07	29°ML01'54 11°19'48
opposition	14500 May 03 01:24	22°M50'24 -12°57'11	max. Earth dist.	14506 Nov 05 23:36	29°ML01'42 49.20539 AU
min. Earth dist.	14500 May 02 21:51	22°M50'34 47.63593 AU	morning rise	14506 Nov 16 10:29	29°M16'03
direct	14500 Jul 24 05:58	21°M51'44		14506 Dec 21 23:45	0° <b>∡</b>
evening set	14500 Oct 21 23:05	23°M05'45	retrograde	14507 Feb 15 18:14	0° <b>₰</b> ³31'07
				14507 Apr 14 01:30	30°RM₊
conjunction	14500 Oct 30 20:26	23°M17'56 -12°21'27	opposition	14507 May 10 12:34	29°M31'36 -11°43'32
minimum elong	14500 Oct 30 20:41	23°M17'57 12°20'41	min. Earth dist.	14507 May 10 15:40	29°M31'27 47.20765 AU
max. Earth dist.	14500 Oct 31 00:30	23°M18'10 49.56503 AU	direct	14507 Jul 31 20:04	28°M32'39
morning rise	14500 Nov 08 18:51 14501 Feb 09 10:17	23°M30'10 24°M46'50	evening set	14507 Oct 27 20:38	29°M44'52
retrograde opposition	14501 Feb 09 10:17	23°M47'34 -12°47'17	conjunction	14507 Nov 07 08:04	29°ML59'14 -11°09'46
min. Earth dist.	14501 May 04 00:21	23°M47'41 47.58920 AU	minimum elong	14507 Nov 07 08:04	29°M59'15 11°08'55
direct	14501 Jul 25 13:52	22°M48'53	max. Earth dist.	14507 Nov 07 04:07	29°M.59'01 49.12970 AU
evening set	14501 Oct 22 22:24	24°ML02'38	man. Barur dige.	14507 Nov 07 21:17	0° <b>∡</b> ¹
			morning rise	14507 Nov 17 20:53	0° <b>∡</b> 13'43
conjunction	14501 Nov 01 01:22	24°M15'08 -12°11'48	retrograde	14508 Feb 17 00:55	1° <b>∡</b> 728'33
minimum elong	14501 Nov 01 01:35	24°M15'09 12°11'01	opposition	14508 May 10 17:39	0° <b>∡</b> 128'59 -11°32'10
max. Earth dist.	14501 Nov 01 03:40	24°M15'16 49.51752 AU	min. Earth dist.	14508 May 10 22:21	0° <b>尽</b> 28'46 47.12908 AU
morning rise	14501 Nov 10 05:32	24°M27'43		14508 Jun 06 17:12	30°RM₊
retrograde	14502 Feb 10 15:49	25°M44'06	direct	14508 Aug 01 01:36	29°M29'58
opposition	14502 May 05 11:15	24°M44'49 -12°37'10		14508 Sep 23 20:12	0° <b>≯</b>
min. Earth dist.	14502 May 05 09:06	24°M.44'55 47.53816 AU	evening set	14508 Oct 27 20:44	0° <b>∡</b> ¹41'58
direct	14502 Jul 26 19:58	23°M-46'08		14500 N 07 12 17	00 756120 10050141
evening set	14502 Oct 23 21:47	24°M59'37	conjunction minimum elong	14508 Nov 07 13:17	0° <b>尽</b> 56'39 -10°58'41 0° <b>尽</b> 56'40 10°57'50
i <b>4</b> :	14502 N 02 06-20	250M 1212( 12001150		14508 Nov 07 13:30	
conjunction minimum elong	14502 Nov 02 06:28 14502 Nov 02 06:42	25°M12'26 -12°01'58 25°M12'27 12°01'10	max. Earth dist. morning rise	14508 Nov 07 09:07 14508 Nov 18 07:07	0° ₹ 56'25 49.05096 AU 1° ₹ 11'26
max. Earth dist.	14502 Nov 02 00.42 14502 Nov 02 07:49	25°ML12'31 49.46521 AU	retrograde	14509 Feb 17 07:31	2° ₹ 26'03
morning rise	14502 Nov 11 16:23	25°M25'21	opposition	14509 May 11 22:41	1° ₹ 26′26 -11°20′33
retrograde	14503 Feb 12 00:03	26°M41'28	min. Earth dist.	14509 May 12 03:07	1° ₹ 26'14 47.04748 AU
opposition	14503 May 06 16:25	25°M42'10 -12°26'51	direct	14509 Aug 02 04:18	0° <b>₹</b> 27'22
min. Earth dist.	14503 May 06 16:22	25°M42'10 47.48207 AU	evening set	14509 Oct 28 20:58	1° <b>⊀</b> 39'11
direct	14503 Jul 28 00:44	24°ML43'27	-		
evening set	14503 Oct 24 21:22	25°M56'39	conjunction	14509 Nov 08 18:24	1° <b>₹</b> 754'10 -10°47'23
			minimum elong	14509 Nov 08 18:37	1° <b>₹</b> 54'11 10°46'30
conjunction	14503 Nov 03 11:35	26°ML09'48 -11°51'55	max. Earth dist.	14509 Nov 08 12:35	1° <b>尽</b> 53'50 48.96919 AU
minimum elong	14503 Nov 03 11:48	26°ML09'49 11°51'07	morning rise	14509 Nov 19 17:23	2° <b>₰</b> 09'15
max. Earth dist.	14503 Nov 03 12:06	26°ML09'50 49.40782 AU	retrograde	14510 Feb 18 14:00	3° <b>尽</b> 23'41
morning rise	14503 Nov 13 02:56	26°M23'02	opposition	14510 May 13 03:51	2° <b>尽</b> 24'02 -11°08'41

min. Earth dist.	14510 May 13 09:34	2° <b>x</b> <sup>1</sup> 23'46 46.96308 A	AU morning rise	14516 Nov 27 17:21	9° <b>∡</b> 00'31	
direct	14510 Aug 03 06:38	1° <b>∡</b> 124'55	retrograde	14517 Feb 25 05:53	10° <b>∡</b> 14'05	
evening set	14510 Oct 29 21:13	2° <b>∡</b> ³36'35	opposition	14517 May 19 17:57	9° <b>∡</b> 14'05 -9'	°39'19
			min. Earth dist.	14517 May 20 05:55	9° <b>∡</b> 13'31 46	6.26847 AU
conjunction	14510 Nov 09 23:45	2° <b>₹</b> 51'52 -10°35'50	direct	14517 Aug 09 19:55	8° <b>҂</b> 14'36	
minimum elong	14510 Nov 09 23:56	2° <b>∡</b> '51'52 10°34'58	evening set	14517 Nov 04 04:51	9° <b>∡</b> 25'27	
max. Earth dist.	14510 Nov 09 18:14	2° <b>∡</b> 751'32 48.88469 A	AU			
morning rise	14510 Nov 21 03:34	3° <b>∡</b> 107′14	conjunction	14517 Nov 16 15:25	9° <b>х</b> 42′45 -9′	°09'00
retrograde	14511 Feb 19 16:46	4° <b>₹</b> 121'31	minimum elong	14517 Nov 16 15:36	9° <b>х</b> 42′45 9′	°08'04
opposition	14511 May 14 09:06	3° <b>₹</b> 121'49 -10°56'36	max. Earth dist.	14517 Nov 16 01:50	9° <b>∡</b> 11'57 48	8.18391 AU
min. Earth dist.	14511 May 14 15:14	3° <b>₹</b> 21'32 46.87580 £	AU morning rise	14517 Nov 29 03:36	10° <b>₰</b> 00'09	
direct	14511 Aug 04 13:50	2° <b>∡</b> 22'40	retrograde	14518 Feb 26 12:17	11° <b>≯</b> 13'36	
evening set	14511 Oct 30 21:43	3° <b>∡</b> ³34'11	opposition	14518 May 20 23:42	10° <b>≯</b> 13'30 -9'	°25'41
			min. Earth dist.	14518 May 21 13:32	10° <b>≯</b> 12'51 46	6.14996 AU
conjunction	14511 Nov 11 04:57	3° <b>∡</b> ′49'46 -10°24'04	direct	14518 Aug 11 03:32	9° <b>∡</b> 13'54	
minimum elong	14511 Nov 11 05:10	3° <b>∡</b> ′49'46 10°23'11	evening set	14518 Nov 05 06:39	10° <b>≯</b> 24'39	
max. Earth dist.	14511 Nov 10 22:06	3° <b>₹</b> 49'22 48.79736 A				
morning rise	14511 Nov 22 13:45	4° <b>⋌</b> ¹05'26	conjunction	14518 Nov 17 21:27	10° <b>≯</b> 42'12 -8'	
retrograde	14512 Feb 20 22:22	5° <b>∡</b> 19'35	minimum elong	14518 Nov 17 21:38		°54'48
opposition	14512 May 14 14:22	4° <b>₹</b> 19'51 -10°44'16	max. Earth dist.	14518 Nov 17 07:25	10° <b>₹</b> 41'23 48	8.06467 AU
min. Earth dist.	14512 May 14 20:49	4° <b>₹</b> 19'33 46.78555 A	Č	14518 Nov 30 13:47	10° <b>≯</b> 59'53	
direct	14512 Aug 04 20:05	3° <b>₹</b> ¹20'40	retrograde	14519 Feb 27 20:27	12° <b>≯</b> 13'14	
evening set	14512 Oct 30 22:23	4° <b>≯</b> 32'04	opposition	14519 May 22 05:26	11° <b>∡</b> 13'01 -9'	
			min. Earth dist.	14519 May 22 19:11	11° 🖈 12'22 46	6.02740 AU
conjunction	14512 Nov 11 10:28	4° <b>₹</b> 47'56 -10°12'05	direct	14519 Aug 12 07:45	10° <b>≯</b> 13'17	
minimum elong	14512 Nov 11 10:40	4° <b>₹</b> 47'57 10°11'11	evening set	14519 Nov 06 08:32	11° <b>₹</b> 23'57	
max. Earth dist.	14512 Nov 11 02:51	4° <b>*</b> 47'30 48.70663 A	AU max. Earth dist.	14519 Nov 18 11:30	11° <b>₹</b> 40'52 47	7.94151 AU
morning rise	14512 Nov 23 00:04	5° <b>₹</b> 03'54		14510.31 10 00 00		0.4044.0
retrograde	14513 Feb 21 07:01	6° ₹ 17'56	conjunction	14519 Nov 19 03:22	11° <b>х</b> 41'47 -8'	
opposition	14513 May 15 19:40	5° ₹18'11 -10°31'42	minimum elong	14519 Nov 19 03:33	11° <b>х</b> 41'48 8'	°41'21
min. Earth dist.	14513 May 16 03:58	5° 🖈 17'47 46.69166 A	Č	14519 Dec 02 00:03	11° <b>х</b> 59'44	
direct	14513 Aug 06 00:56 14513 Oct 31 23:20	4° <b>尽</b> 18'58 5° <b>尽</b> 30'14	retrograde	14520 Feb 29 05:28	13° <b>∡</b> 13'00 12° <b>∡</b> 12'40 -8'	057144
evening set	14313 Oct 31 23.20	3 X 30 14	opposition min. Earth dist.	14520 May 22 11:20 14520 May 23 02:41	12 <b>x</b> 12 40 -8 12° <b>x</b> 11'56 45	
agniunation	14513 Nov 12 16:06	5° <b>₹</b> 46'24 -9°59'52	direct	14520 May 23 02:41 14520 Aug 12 09:36	11° <b>x</b> '11'36' 43	5.90130 AU
conjunction minimum elong	14513 Nov 12 16:18	5° <b>₹</b> '46'25 9°58'58	evening set	14520 Aug 12 09.36 14520 Nov 06 10:36	11 <b>x</b> ·1248 12° <b>x</b> 723'24	
max. Earth dist.	14513 Nov 12 10:18	5° \$\frac{7}{45} \display 6 48.61211 A		14320 NOV 00 10.30	12 × 23 24	
morning rise	14513 Nov 24 10:17	6° <b>₹</b> 02'40	conjunction	14520 Nov 19 09:38	12° <b>∡</b> 741'30 -8'	028127
retrograde	14514 Feb 22 14:24	7° <b>₹</b> 16'35	minimum elong	14520 Nov 19 09:49	12° <b>х</b> 41'30 -8	
opposition	14514 May 17 01:03	6° ₹ 16'48 -10°18'55	max. Earth dist.	14520 Nov 18 17:58	12° <b>х</b> 40'35 47	
min. Earth dist.	14514 May 17 09:22	6° \$\bar{Z}\$ 16'24 46.59354 A		14520 Dec 02 10:12	12° <b>х</b> 4033 47	7.014777110
direct	•		Č	1 1320 Dec 02 10.12		
evening set	14514 Aug 07 03:45	7° X'   /'11	retrograde	14521 Mar 01 09:40		
	14514 Aug 07 03:45 14514 Nov 02 00:23	5° ₹ 17'33 6° ₹ 28'43	retrograde opposition	14521 Mar 01 09:40 14521 May 23 17:05	14° <b>∡</b> 12'54	°43'24
•	14514 Aug 07 03:45 14514 Nov 02 00:23	6° ₹ 28'43	opposition	14521 May 23 17:05	14° <b>х</b> 12′54 13° <b>х</b> 12′27 -8′	
conjunction	14514 Nov 02 00:23	6° <b>∡</b> 128'43	opposition min. Earth dist.	14521 May 23 17:05 14521 May 24 08:45	14° 🖈 12'54 13° 🖈 12'27 -8' 13° 🖈 11'42 45	
conjunction minimum elong	14514 Nov 02 00:23 14514 Nov 13 21:37	6° <b>х</b> <sup>7</sup> 28'43 6° <b>х</b> <sup>7</sup> 45'10 -9°47'27	opposition min. Earth dist. direct	14521 May 23 17:05 14521 May 24 08:45 14521 Aug 13 16:45	14° ₹ 12'54 13° ₹ 12'27 -8 13° ₹ 11'42 45 12° ₹ 12'28	
conjunction minimum elong max. Earth dist.	14514 Nov 02 00:23 14514 Nov 13 21:37 14514 Nov 13 21:49	6° ₹28'43 6° ₹45'10 -9°47'27 6° ₹45'11 9°46'32	opposition min. Earth dist. direct evening set	14521 May 23 17:05 14521 May 24 08:45	14° 🖈 12'54 13° 🖈 12'27 -8' 13° 🖈 11'42 45	
minimum elong max. Earth dist.	14514 Nov 02 00:23 14514 Nov 13 21:37	6° <b>х</b> <sup>7</sup> 28'43 6° <b>х</b> <sup>7</sup> 45'10 -9°47'27	opposition min. Earth dist. direct evening set	14521 May 23 17:05 14521 May 24 08:45 14521 Aug 13 16:45	14° ₹ 12'54 13° ₹ 12'27 -8 13° ₹ 11'42 45 12° ₹ 12'28 13° ₹ 23'01	5.77195 AU
minimum elong	14514 Nov 02 00:23 14514 Nov 13 21:37 14514 Nov 13 21:49 14514 Nov 13 11:25	6° ₹28'43 6° ₹45'10 -9°47'27 6° ₹45'11 9°46'32 6° ₹44'35 48.51289 £	opposition min. Earth dist. direct evening set	14521 May 23 17:05 14521 May 24 08:45 14521 Aug 13 16:45 14521 Nov 07 12:59	14° ₹ 12'54 13° ₹ 12'27 -8 13° ₹ 11'42 45 12° ₹ 12'28	5.77195 AU 5°14'42
minimum elong max. Earth dist. morning rise	14514 Nov 02 00:23 14514 Nov 13 21:37 14514 Nov 13 21:49 14514 Nov 13 11:25 14514 Nov 25 20:34	6° \$\times 28'43\$ 6° \$\times 45'10 -9°47'27 6° \$\times 45'11 9°46'32 6° \$\times 44'35 48.51289 47 7° \$\times 01'44	opposition min. Earth dist. direct evening set AU conjunction	14521 May 23 17:05 14521 May 24 08:45 14521 Aug 13 16:45 14521 Nov 07 12:59 14521 Nov 20 15:50	14° ₹ 12'54 13° ₹ 12'27 -8 13° ₹ 11'42 45 12° ₹ 12'28 13° ₹ 23'01 13° ₹ 41'23 -8	5.77195 AU °14'42 °13'45
minimum elong max. Earth dist. morning rise retrograde	14514 Nov 02 00:23 14514 Nov 13 21:37 14514 Nov 13 21:49 14514 Nov 13 11:25 14514 Nov 25 20:34 14515 Feb 23 21:29	6° \$\times 28'43\$ 6° \$\times 45'10 -9°47'27 6° \$\times 45'11 9°46'32 6° \$\times 44'35 48.51289 4 7° \$\times 01'44 8° \$\times 15'31	opposition min. Earth dist. direct evening set  AU  conjunction minimum elong max. Earth dist.	14521 May 23 17:05 14521 May 24 08:45 14521 Aug 13 16:45 14521 Nov 07 12:59 14521 Nov 20 15:50 14521 Nov 20 16:00	14° \$\tilde{x}\$ 12'54 13° \$\tilde{x}\$ 12'27 -8 13° \$\tilde{x}\$ 11'42 45 12° \$\tilde{x}\$ 12'28 13° \$\tilde{x}\$ 23'01 13° \$\tilde{x}\$ 41'23 -8 13° \$\tilde{x}\$ 41'24 8	5.77195 AU °14'42 °13'45
minimum elong max. Earth dist. morning rise retrograde opposition	14514 Nov 02 00:23 14514 Nov 13 21:37 14514 Nov 13 21:49 14514 Nov 13 11:25 14514 Nov 25 20:34 14515 Feb 23 21:29 14515 May 18 06:43	6° \$\times 28'43\$ 6° \$\times 45'10 -9°47'27 6° \$\times 45'11 9°46'32 6° \$\times 44'35 48.51289 4 7° \$\times 01'44 8° \$\times 15'31 7° \$\times 15'41 -10°05'56	opposition min. Earth dist. direct evening set  AU  conjunction minimum elong max. Earth dist.	14521 May 23 17:05 14521 May 24 08:45 14521 Aug 13 16:45 14521 Nov 07 12:59 14521 Nov 20 15:50 14521 Nov 20 16:00 14521 Nov 19 22:42	14° \$\tilde{x}\$ 12'54 13° \$\tilde{x}\$ 12'27 -8 13° \$\tilde{x}\$ 11'42 45 12° \$\tilde{x}\$ 12'28 13° \$\tilde{x}\$ 23'01 13° \$\tilde{x}\$ 41'23 -8 13° \$\tilde{x}\$ 41'24 8 13° \$\tilde{x}\$ 40'23 47	5.77195 AU °14'42 °13'45
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	14514 Nov 02 00:23 14514 Nov 13 21:37 14514 Nov 13 21:49 14514 Nov 13 11:25 14514 Nov 25 20:34 14515 Feb 23 21:29 14515 May 18 06:43 14515 May 18 16:56	6° \$\times 28'43\$ 6° \$\times 45'10  -9°47'27\$ 6° \$\times 45'11  9°46'32\$ 6° \$\times 44'35  48.51289  48'5131\$ 7° \$\times 15'31\$ 7° \$\times 15'41  -10°05'56\$ 7° \$\times 15'13  46.49053 \q	opposition min. Earth dist. direct evening set  AU  conjunction minimum elong max. Earth dist. AU  morning rise	14521 May 23 17:05 14521 May 24 08:45 14521 Aug 13 16:45 14521 Nov 07 12:59 14521 Nov 20 15:50 14521 Nov 20 16:00 14521 Nov 19 22:42 14521 Dec 03 20:29	14° \$\times 12'54 13° \$\times 12'27 -8 13° \$\times 12'27   45 12° \$\times 12'28   13° \$\times 23'01   13° \$\times 41'23 -8 13° \$\times 41'24   8 13° \$\times 40'23   47 13° \$\times 59'52   13° \$\times	5.77195 AU 9°14'42 9°13'45 7.68553 AU
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	14514 Nov 02 00:23 14514 Nov 13 21:37 14514 Nov 13 21:49 14514 Nov 13 11:25 14514 Nov 25 20:34 14515 Feb 23 21:29 14515 May 18 06:43 14515 May 18 16:56 14515 Aug 08 06:53	6° \$\times 28'43\$ 6° \$\times 45'10  -9°47'27\$ 6° \$\times 45'11  9°46'32\$ 6° \$\times 44'35  48.51289  48'\times 15'31\$ 7° \$\times 15'41  -10°05'56\$ 7° \$\times 15'13  46.49053  46'\times 16'23\$	opposition min. Earth dist. direct evening set  AU  conjunction minimum elong max. Earth dist. AU morning rise retrograde	14521 May 23 17:05 14521 May 24 08:45 14521 Aug 13 16:45 14521 Nov 07 12:59 14521 Nov 20 15:50 14521 Nov 20 16:00 14521 Nov 19 22:42 14521 Dec 03 20:29 14522 Mar 02 14:12	14° \$\times 12'54 13° \$\times 12'27 -8 13° \$\times 12'28 12° \$\times 12'28 13° \$\times 23'01 13° \$\times 41'23 -8 13° \$\times 41'24 8 13° \$\times 40'23 47 13° \$\times 59'52 15° \$\times 12'59	5.77195 AU 1°14'42 1°13'45 7.68553 AU 1°28'49
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	14514 Nov 02 00:23 14514 Nov 13 21:37 14514 Nov 13 21:49 14514 Nov 13 11:25 14514 Nov 25 20:34 14515 Feb 23 21:29 14515 May 18 06:43 14515 May 18 16:56 14515 Aug 08 06:53	6° \$\times 28'43\$ 6° \$\times 45'10  -9°47'27\$ 6° \$\times 45'11  9°46'32\$ 6° \$\times 44'35  48.51289  48'\times 15'31\$ 7° \$\times 15'41  -10°05'56\$ 7° \$\times 15'13  46.49053  46'\times 16'23\$	opposition min. Earth dist. direct evening set  AU  conjunction minimum elong max. Earth dist. AU morning rise retrograde opposition	14521 May 23 17:05 14521 May 24 08:45 14521 Aug 13 16:45 14521 Nov 07 12:59 14521 Nov 20 15:50 14521 Nov 20 16:00 14521 Nov 19 22:42 14521 Dec 03 20:29 14522 Mar 02 14:12 14522 May 24 23:05	14° ₹12'54 13° ₹12'27 -8 13° ₹11'42 45 12° ₹12'28 13° ₹23'01 13° ₹41'23 -8 13° ₹40'23 47 13° ₹59'52 15° ₹12'59 14° ₹12'26 -8	5.77195 AU 1°14'42 1°13'45 7.68553 AU 1°28'49
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	14514 Nov 02 00:23 14514 Nov 13 21:37 14514 Nov 13 21:49 14514 Nov 13 11:25 14514 Nov 25 20:34 14515 Feb 23 21:29 14515 May 18 06:43 14515 May 18 16:56 14515 Aug 08 06:53 14515 Nov 03 01:42	6° \$\times 28'43\$ 6° \$\times 45'10   -9°47'27\$ 6° \$\times 45'11    9°46'32\$ 6° \$\times 44'35  48.51289  48' \times 15'31\$ 7° \$\times 15'41   -10°05'56\$ 7° \$\times 15'13   46.49053  46' \times 16'23\$ 7° \$\times 27'27\$	opposition min. Earth dist. direct evening set  AU  conjunction minimum elong max. Earth dist. AU  morning rise retrograde opposition min. Earth dist.	14521 May 23 17:05 14521 May 24 08:45 14521 Aug 13 16:45 14521 Nov 07 12:59 14521 Nov 20 15:50 14521 Nov 20 16:00 14521 Nov 19 22:42 14521 Dec 03 20:29 14522 Mar 02 14:12 14522 May 24 23:05 14522 May 25 15:11	14° \$\times 12'54 13° \$\times 12'27 -8' 13° \$\times 12'27 -8' 12° \$\times 12'28 13° \$\times 23'01 13° \$\times 41'23 -8' 13° \$\times 40'23 47' 13° \$\times 59'52 15° \$\times 12'59 14° \$\times 12'26 -8' 14° \$\times 11'39 45'	5.77195 AU 1°14'42 1°13'45 7.68553 AU 1°28'49
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction	14514 Nov 02 00:23 14514 Nov 13 21:37 14514 Nov 13 21:49 14514 Nov 13 11:25 14514 Nov 25 20:34 14515 Feb 23 21:29 14515 May 18 06:43 14515 May 18 16:56 14515 Aug 08 06:53 14515 Nov 03 01:42	6° \$\times 28'43\$ 6° \$\times 45'10  -9°47'27\$ 6° \$\times 45'11  9°46'32\$ 6° \$\times 44'35  48.51289  48' \times 15'31\$ 7° \$\times 15'41  -10°05'56\$ 7° \$\times 15'13  46.49053  46' \times 16'23\$ 7° \$\times 27'27\$ 7° \$\times 44'11  -9°34'50\$	opposition min. Earth dist. direct evening set  AU  conjunction minimum elong max. Earth dist. AU  morning rise retrograde opposition min. Earth dist. direct evening set	14521 May 23 17:05 14521 May 24 08:45 14521 Aug 13 16:45 14521 Nov 07 12:59 14521 Nov 20 15:50 14521 Nov 20 16:00 14521 Nov 19 22:42 14521 Dec 03 20:29 14522 Mar 02 14:12 14522 May 24 23:05 14522 May 25 15:11 14522 Aug 14 23:38	14° \$\times 12'54 13° \$\times 12'27 -8 13° \$\times 12'27 -8 12° \$\times 12'28 13° \$\times 23'01 13° \$\times 41'23 -8 13° \$\times 41'24 8 13° \$\times 40'23 47 13° \$\times 59'52 15° \$\times 12'59 14° \$\times 12'26 -8 14° \$\times 11'39 45 13° \$\times 12'20	5.77195 AU 1°14'42 1°13'45 7.68553 AU 1°28'49
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong	14514 Nov 02 00:23 14514 Nov 13 21:37 14514 Nov 13 21:49 14514 Nov 13 11:25 14514 Nov 25 20:34 14515 Feb 23 21:29 14515 May 18 06:43 14515 May 18 16:56 14515 Aug 08 06:53 14515 Nov 03 01:42 14515 Nov 15 03:36 14515 Nov 15 03:47	6° \$\times 28'43\$ 6° \$\times 45'10 -9°47'27 6° \$\times 45'11 9°46'32 6° \$\times 44'35 48.51289 47 7° \$\times 01'44 8° \$\times 15'31 7° \$\times 15'41 -10°05'56 7° \$\times 15'13 46.49053 46 6° \$\times 16'23 7° \$\times 27'27 7° \$\times 44'11 -9°34'50 7° \$\times 44'12 9°33'56	opposition min. Earth dist. direct evening set  AU  conjunction minimum elong max. Earth dist. AU  morning rise retrograde opposition min. Earth dist. direct evening set	14521 May 23 17:05 14521 May 24 08:45 14521 Aug 13 16:45 14521 Nov 07 12:59 14521 Nov 20 15:50 14521 Nov 20 16:00 14521 Nov 19 22:42 14521 Dec 03 20:29 14522 Mar 02 14:12 14522 May 24 23:05 14522 May 25 15:11 14522 Aug 14 23:38	14° \$\times 12'54 13° \$\times 12'27 -8 13° \$\times 12'27 -8 12° \$\times 12'28 13° \$\times 23'01 13° \$\times 41'23 -8 13° \$\times 41'24 8 13° \$\times 40'23 47 13° \$\times 59'52 15° \$\times 12'59 14° \$\times 12'26 -8 14° \$\times 11'39 45 13° \$\times 12'20	5.77195 AU 1°14'42 1°13'45 7.68553 AU 1°28'49 5.63986 AU
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	14514 Nov 02 00:23 14514 Nov 13 21:37 14514 Nov 13 21:49 14514 Nov 13 11:25 14514 Nov 25 20:34 14515 Feb 23 21:29 14515 May 18 06:43 14515 May 18 16:56 14515 Aug 08 06:53 14515 Nov 03 01:42 14515 Nov 15 03:36 14515 Nov 15 03:47 14515 Nov 14 17:08	6° \$\times 28'43\$ 6° \$\times 45'10 -9°47'27 6° \$\times 45'11 9°46'32 6° \$\times 44'35 48.51289 47 7° \$\times 01'44 8° \$\times 15'31 7° \$\times 15'41 -10°05'56 7° \$\times 16'23 7° \$\times 27'27 7° \$\times 44'11 -9°34'50 7° \$\times 44'12 9°33'56 7° \$\times 43'35 48.40850 48	opposition min. Earth dist. direct evening set  AU  conjunction minimum elong max. Earth dist. AU  morning rise retrograde opposition min. Earth dist. direct evening set	14521 May 23 17:05 14521 May 24 08:45 14521 Aug 13 16:45 14521 Nov 07 12:59 14521 Nov 20 15:50 14521 Nov 20 16:00 14521 Nov 19 22:42 14521 Dec 03 20:29 14522 May 02 14:12 14522 May 24 23:05 14522 May 25 15:11 14522 Aug 14 23:38 14522 Nov 08 15:16	14° \$\times 12'54 13° \$\times 12'27 -8 13° \$\times 12'28 12° \$\times 12'28 13° \$\times 23'01  13° \$\times 41'23 -8 13° \$\times 41'24 8 13° \$\times 40'23 47 13° \$\times 59'52 15° \$\times 12'59 14° \$\times 12'26 -8 14° \$\times 12'20 14° \$\times 22'51  14° \$\times 41'29 -8 14° \$\times 41'29 -8 14° \$\times 41'29 -7	5.77195 AU 6°14'42 6°13'45 7.68553 AU 6°28'49 5.63986 AU 6°00'33 6°59'35
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition	14514 Nov 02 00:23 14514 Nov 13 21:37 14514 Nov 13 21:49 14514 Nov 13 11:25 14514 Nov 25 20:34 14515 Feb 23 21:29 14515 May 18 06:43 14515 May 18 16:56 14515 Aug 08 06:53 14515 Nov 03 01:42 14515 Nov 15 03:36 14515 Nov 15 03:47 14515 Nov 14 17:08 14515 Nov 27 06:55	6° \$\times 28'43\$ 6° \$\times 45'10 -9°47'27 6° \$\times 45'11 9°46'32 6° \$\times 44'35 48.51289 47 7° \$\times 01'44 8° \$\times 15'31 7° \$\times 15'41 -10°05'56 7° \$\times 15'13 46.49053 46 6° \$\times 16'23 7° \$\times 27'27 7° \$\times 44'11 -9°34'50 7° \$\times 44'12 9°33'56 7° \$\times 43'35 48.40850 48 8° \$\times 01'02	opposition min. Earth dist. direct evening set  AU  conjunction minimum elong max. Earth dist. AU  morning rise retrograde opposition min. Earth dist. direct evening set  AU  conjunction minmum elong max. Earth dist.	14521 May 23 17:05 14521 May 24 08:45 14521 Aug 13 16:45 14521 Nov 07 12:59 14521 Nov 20 15:50 14521 Nov 20 16:00 14521 Nov 19 22:42 14521 Dec 03 20:29 14522 Mar 02 14:12 14522 May 24 23:05 14522 May 25 15:11 14522 Aug 14 23:38 14522 Nov 08 15:16	14° \$\times 12'54 13° \$\times 12'27 -8 13° \$\times 12'28 12° \$\times 12'28 13° \$\times 23'01  13° \$\times 41'23 -8 13° \$\times 44'24 8 13° \$\times 40'23 47 13° \$\times 59'52 15° \$\times 12'59 14° \$\times 12'26 -8 14° \$\times 11'39 45 13° \$\times 12'20 14° \$\times 22'51  14° \$\times 41'29 -8	5.77195 AU 6°14'42 6°13'45 7.68553 AU 6°28'49 5.63986 AU 6°00'33 6°59'35
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	14514 Nov 02 00:23 14514 Nov 13 21:37 14514 Nov 13 21:49 14514 Nov 13 11:25 14514 Nov 25 20:34 14515 Feb 23 21:29 14515 May 18 06:43 14515 May 18 16:56 14515 Aug 08 06:53 14515 Nov 03 01:42 14515 Nov 15 03:36 14515 Nov 14 17:08 14515 Nov 14 17:08 14516 Feb 25 00:19 14516 May 18 12:17 14516 May 18 23:30	6° \$\times 28'43\$ 6° \$\times 45'10 -9°47'27 6° \$\times 45'11 9° 46'32 6° \$\times 44'35 48.51289 47 7° \$\times 01'44 8° \$\times 15'31 7° \$\times 15'41 -10°05'56 7° \$\times 15'13 46.49053 46 6° \$\times 16'23 7° \$\times 27'27 7° \$\times 44'11 -9°34'50 7° \$\times 44'12 9°33'56 7° \$\times 44'12 9°33'56 7° \$\times 44'14 9°35'44 8° \$\times 14'48 -9°52'44 8° \$\times 14'16 46.38210 46	opposition min. Earth dist. direct evening set  AU  conjunction minimum elong max. Earth dist. AU  morning rise retrograde opposition min. Earth dist. direct evening set  AU  conjunction minimum elong max. Earth dist. AU  morning rise	14521 May 23 17:05 14521 May 24 08:45 14521 Aug 13 16:45 14521 Nov 07 12:59 14521 Nov 20 15:50 14521 Nov 20 16:00 14521 Nov 19 22:42 14521 Dec 03 20:29 14522 Mar 02 14:12 14522 May 24 23:05 14522 May 25 15:11 14522 Aug 14 23:38 14522 Nov 08 15:16	14° \$\times 12'54 13° \$\times 12'27 -8 13° \$\times 12'28 12° \$\times 12'28 13° \$\times 23'01  13° \$\times 41'23 -8 13° \$\times 41'24 8 13° \$\times 40'23 47 13° \$\times 59'52 15° \$\times 12'59 14° \$\times 12'26 -8 14° \$\times 12'20 14° \$\times 22'51  14° \$\times 41'29 -8 14° \$\times 41'29 -8 14° \$\times 41'29 -7	5.77195 AU 6°14'42 6°13'45 7.68553 AU 6°28'49 5.63986 AU 6°00'33 6°59'35
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	14514 Nov 02 00:23 14514 Nov 13 21:37 14514 Nov 13 21:49 14514 Nov 13 11:25 14514 Nov 25 20:34 14515 Feb 23 21:29 14515 May 18 06:43 14515 May 18 16:56 14515 Aug 08 06:53 14515 Nov 03 01:42 14515 Nov 15 03:36 14515 Nov 15 03:47 14515 Nov 14 17:08 14515 Nov 27 06:55 14516 Feb 25 00:19 14516 May 18 12:17 14516 May 18 23:30 14516 Aug 08 13:59	6° \$\times 28'43\$ 6° \$\times 45'10 -9°47'27 6° \$\times 45'11 9°46'32 6° \$\times 44'35 48.51289 47 7° \$\times 01'44 8° \$\times 15'31 7° \$\times 15'41 -10°05'56 7° \$\times 15'13 46.49053 46 6° \$\times 16'23 7° \$\times 27'27 7° \$\times 44'11 -9°34'50 7° \$\times 44'12 9°33'56 7° \$\times 44'12 9°33'56 7° \$\times 44'12 9°35'44 8° \$\times 14'48 -9°52'44 8° \$\times 14'16 46.38210 47 7° \$\times 15'25	opposition min. Earth dist. direct evening set  AU  conjunction minimum elong max. Earth dist. AU  morning rise retrograde opposition min. Earth dist. direct evening set  AU  conjunction min Earth dist. direct evening set  AU  conjunction minimum elong max. Earth dist. AU  morning rise retrograde	14521 May 23 17:05 14521 May 24 08:45 14521 Aug 13 16:45 14521 Nov 07 12:59  14521 Nov 20 15:50 14521 Nov 20 16:00 14521 Nov 19 22:42 14521 Dec 03 20:29 14522 Mar 02 14:12 14522 May 24 23:05 14522 May 25 15:11 14522 Aug 14 23:38 14522 Nov 08 15:16  14522 Nov 21 22:04 14522 Nov 21 22:04 14522 Nov 21 04:26 14522 Dec 05 06:34 14523 Mar 03 20:49	14° \$\times 12'54 13° \$\times 12'27 -8 13° \$\times 11'42 45 12° \$\times 12'28 13° \$\times 23'01  13° \$\times 41'23 -8 13° \$\times 41'24 8 13° \$\times 40'23 47 13° \$\times 12'59 14° \$\times 12'59 14° \$\times 12'26 -8 14° \$\times 11'39 45 13° \$\times 12'20 14° \$\times 22'51  14° \$\times 41'29 -8 14° \$\times 41'29 -7 14° \$\times 40'26 47 15° \$\times 00'14 16° \$\times 13'20	5.77195 AU 1°14'42 1°13'45 7.68553 AU 1°28'49 5.63986 AU 1°00'33 1°59'35 7.55319 AU
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	14514 Nov 02 00:23 14514 Nov 13 21:37 14514 Nov 13 21:49 14514 Nov 13 11:25 14514 Nov 25 20:34 14515 Feb 23 21:29 14515 May 18 06:43 14515 May 18 16:56 14515 Aug 08 06:53 14515 Nov 03 01:42 14515 Nov 15 03:36 14515 Nov 14 17:08 14515 Nov 14 17:08 14516 Feb 25 00:19 14516 May 18 12:17 14516 May 18 23:30	6° \$\times 28'43\$ 6° \$\times 45'10 -9°47'27 6° \$\times 45'11 9° 46'32 6° \$\times 44'35 48.51289 47 7° \$\times 01'44 8° \$\times 15'31 7° \$\times 15'41 -10°05'56 7° \$\times 15'13 46.49053 46 6° \$\times 16'23 7° \$\times 27'27 7° \$\times 44'11 -9°34'50 7° \$\times 44'12 9°33'56 7° \$\times 44'12 9°33'56 7° \$\times 44'14 9°35'44 8° \$\times 14'48 -9°52'44 8° \$\times 14'16 46.38210 46	opposition min. Earth dist. direct evening set  AU  conjunction minimum elong max. Earth dist. AU  morning rise retrograde opposition min. Earth dist. direct evening set  AU  conjunction minimum elong max. Earth dist. AU  conjunction minimum elong max. Earth dist. AU  conjunction minimum elong max is a conjunction	14521 May 23 17:05 14521 May 24 08:45 14521 Aug 13 16:45 14521 Nov 07 12:59  14521 Nov 20 15:50 14521 Nov 20 16:00 14521 Nov 19 22:42 14521 Dec 03 20:29 14522 Mar 02 14:12 14522 May 24 23:05 14522 May 25 15:11 14522 Aug 14 23:38 14522 Nov 08 15:16  14522 Nov 21 22:04 14522 Nov 21 22:04 14522 Nov 21 04:26 14522 Dec 05 06:34 14523 Mar 03 20:49 14523 May 26 05:20	14° \$\times 12'54 13° \$\times 12'27 -8 13° \$\times 12'27 -8 13° \$\times 12'28 13° \$\times 23'01  13° \$\times 41'23 -8 13° \$\times 40'23 47 13° \$\times 59'52 15° \$\times 12'59 14° \$\times 12'26 -8 14° \$\times 12'26 -8 14° \$\times 12'26 14° \$\times 22'51  14° \$\times 41'29 -8 14° \$\times 41'29 -8 14° \$\times 40'26 47 15° \$\times 00'14 16° \$\times 13'20 15° \$\times 12'39 -8	5.77195 AU  1°14'42 1°13'45 17.68553 AU  1°28'49 15.63986 AU  1°00'33 1°59'35 17.55319 AU  1°14'00
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	14514 Nov 02 00:23  14514 Nov 13 21:37  14514 Nov 13 21:49  14514 Nov 13 11:25  14514 Nov 25 20:34  14515 Feb 23 21:29  14515 May 18 06:43  14515 May 18 16:56  14515 Aug 08 06:53  14515 Nov 03 01:42  14515 Nov 15 03:36  14515 Nov 15 03:47  14515 Nov 14 17:08  14515 Nov 27 06:55  14516 Feb 25 00:19  14516 May 18 12:17  14516 May 18 23:30  14516 Aug 08 13:59  14516 Nov 03 03:19	6° \$\times 28'43\$ 6° \$\times 45'10 -9°47'27 6° \$\times 45'11 9°46'32 6° \$\times 44'35 48.51289 \times 7° \$\times 01'44 8° \$\times 15'31 7° \$\times 15'41 -10°05'56 7° \$\times 15'13 46.49053 \times 6° \$\times 16'23 7° \$\times 27'27 7° \$\times 44'11 -9°34'50 7° \$\times 44'12 9°33'56 7° \$\times 44'12 9°33'56 7° \$\times 44'12 9°33'56 7° \$\times 44'14 9°35'44 8° \$\times 14'48 -9°52'44 8° \$\times 14'48 -9°52'44 8° \$\times 14'16 46.38210 \times 7° \$\times 15'25 8° \$\times 26'23	opposition min. Earth dist. direct evening set  AU  conjunction minimum elong max. Earth dist. AU  morning rise retrograde opposition min. Earth dist. direct evening set  AU  conjunction minimum elong max. Earth dist. AU  conjunction minimum elong max. Earth dist.  AU  morning rise retrograde opposition min. Earth dist.	14521 May 23 17:05 14521 May 24 08:45 14521 Aug 13 16:45 14521 Nov 07 12:59  14521 Nov 20 15:50 14521 Nov 20 16:00 14521 Nov 19 22:42 14521 Dec 03 20:29 14522 Mar 02 14:12 14522 May 24 23:05 14522 May 25 15:11 14522 Aug 14 23:38 14522 Nov 08 15:16  14522 Nov 21 22:04 14522 Nov 21 22:04 14522 Nov 21 04:26 14522 Dec 05 06:34 14523 Mar 03 20:49 14523 May 26 05:20 14523 May 26 22:47	14° \$\times 12'54 13° \$\times 12'27 -8 13° \$\times 12'27 -8 13° \$\times 12'28 13° \$\times 23'01  13° \$\times 41'23 -8 13° \$\times 41'24 8 13° \$\times 40'23 47 13° \$\times 12'26 -8 14° \$\times 12'26 -8 15° \$\times 12'36 47 15° \$\times 00'14 16° \$\times 13'20 15° \$\times 12'39 -8 15° \$\times 11'49 45	5.77195 AU  1°14'42 1°13'45 17.68553 AU  1°28'49 15.63986 AU  1°00'33 1°59'35 17.55319 AU  1°14'00
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	14514 Nov 02 00:23  14514 Nov 13 21:37  14514 Nov 13 21:49  14514 Nov 13 11:25  14514 Nov 25 20:34  14515 Feb 23 21:29  14515 May 18 06:43  14515 May 18 16:56  14515 Aug 08 06:53  14515 Nov 03 01:42  14515 Nov 15 03:36  14515 Nov 15 03:47  14515 Nov 14 17:08  14515 Nov 27 06:55  14516 Feb 25 00:19  14516 May 18 12:17  14516 May 18 23:30  14516 Aug 08 13:59  14516 Nov 03 03:19	6° \$\times 28'43\$ 6° \$\times 45'10 -9°47'27 6° \$\times 45'11 9°46'32 6° \$\times 44'35 48.51289 47 7° \$\times 01'44 8° \$\times 15'31 7° \$\times 15'41 -10°05'56 7° \$\times 16'23 7° \$\times 27'27 7° \$\times 44'11 -9°34'50 7° \$\times 44'12 9°33'56 7° \$\times 43'35 48.40850 48 8° \$\times 01'02 9° \$\times 14'42 8° \$\times 14'48 -9°52'44 8° \$\times 14'16 46.38210 47 7° \$\times 15'25 8° \$\times 26'23 8° \$\times 43'24 -9°22'01	opposition min. Earth dist. direct evening set  AU  conjunction minimum elong max. Earth dist. AU  morning rise retrograde opposition min. Earth dist. direct evening set  AU  conjunction minimum elong max. Earth dist. direct evening set  AU  conjunction minimum elong max. Earth dist. AU  morning rise retrograde opposition min. Earth dist. direct	14521 May 23 17:05 14521 May 24 08:45 14521 Aug 13 16:45 14521 Nov 07 12:59  14521 Nov 20 15:50 14521 Nov 20 16:00 14521 Nov 19 22:42 14521 Dec 03 20:29 14522 Mar 02 14:12 14522 May 24 23:05 14522 May 25 15:11 14522 Aug 14 23:38 14522 Nov 08 15:16  14522 Nov 21 22:04 14522 Nov 21 22:14 14522 Nov 21 04:26 14523 Mar 03 20:49 14523 Mar 03 20:49 14523 May 26 05:20 14523 May 26 22:47 14523 Aug 16 06:59	14° \$\times 12'54 13° \$\times 12'27 -8 13° \$\times 12'27 -8 13° \$\times 12'28 13° \$\times 23'01  13° \$\times 41'23 -8 13° \$\times 41'24 8 13° \$\times 40'23 47 13° \$\times 59'52 15° \$\times 12'59 14° \$\times 12'26 -8 14° \$\times 12'26 -8 14° \$\times 12'26 3 13° \$\times 12'20 14° \$\times 22'51  14° \$\times 41'29 -8 14° \$\times 41'29 -7 14° \$\times 40'26 47 15° \$\times 00'14 16° \$\times 13'20 15° \$\times 12'39 -8 15° \$\times 11'49 45 14° \$\times 12'27	5.77195 AU  1°14'42 1°13'45 17.68553 AU  1°28'49 15.63986 AU  1°00'33 1°59'35 17.55319 AU  1°14'00
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	14514 Nov 02 00:23  14514 Nov 13 21:37  14514 Nov 13 21:49  14514 Nov 13 11:25  14514 Nov 25 20:34  14515 Feb 23 21:29  14515 May 18 06:43  14515 May 18 16:56  14515 Aug 08 06:53  14515 Nov 03 01:42  14515 Nov 15 03:36  14515 Nov 15 03:47  14515 Nov 14 17:08  14515 Nov 27 06:55  14516 Feb 25 00:19  14516 May 18 12:17  14516 May 18 23:30  14516 Aug 08 13:59  14516 Nov 03 03:19	6° \$\times 28'43\$ 6° \$\times 45'10 -9°47'27 6° \$\times 45'11 9°46'32 6° \$\times 44'35 48.51289 \times 7° \$\times 01'44 8° \$\times 15'31 7° \$\times 15'41 -10°05'56 7° \$\times 15'13 46.49053 \times 6° \$\times 16'23 7° \$\times 27'27 7° \$\times 44'11 -9°34'50 7° \$\times 44'12 9°33'56 7° \$\times 44'12 9°33'56 7° \$\times 44'12 9°33'56 7° \$\times 44'14 9°35'44 8° \$\times 14'48 -9°52'44 8° \$\times 14'48 -9°52'44 8° \$\times 14'16 46.38210 \times 7° \$\times 15'25 8° \$\times 26'23	opposition min. Earth dist. direct evening set  AU  conjunction minimum elong max. Earth dist. AU  morning rise retrograde opposition min. Earth dist. direct evening set  AU  conjunction minimum elong max. Earth dist. direct evening set  AU  conjunction minimum elong max. Earth dist. AU  morning rise retrograde opposition min. Earth dist. direct evening set	14521 May 23 17:05 14521 May 24 08:45 14521 Aug 13 16:45 14521 Nov 07 12:59  14521 Nov 20 15:50 14521 Nov 20 16:00 14521 Nov 19 22:42 14521 Dec 03 20:29 14522 Mar 02 14:12 14522 May 24 23:05 14522 May 25 15:11 14522 Aug 14 23:38 14522 Nov 08 15:16  14522 Nov 21 22:04 14522 Nov 21 22:04 14522 Nov 21 04:26 14522 Dec 05 06:34 14523 Mar 03 20:49 14523 May 26 05:20 14523 May 26 22:47	14° \$\times 12'54 13° \$\times 12'27 -8 13° \$\times 12'27 -8 13° \$\times 12'28 13° \$\times 23'01  13° \$\times 41'23 -8 13° \$\times 41'24 8 13° \$\times 40'23 47 13° \$\times 12'26 -8 14° \$\times 12'26 -8 15° \$\times 12'36 47 15° \$\times 00'14 16° \$\times 13'20 15° \$\times 12'39 -8 15° \$\times 11'49 45	5.77195 AU 6°14'42 6°13'45 7.68553 AU 6°28'49 5.63986 AU 6°00'33 6°59'35 7.55319 AU 6°14'00 5.50492 AU

conjunction	14523 Nov 23 04:35	15° <b>∡</b> '41'51	-7°46'10	evening set	14530 Nov 15 20:09	22° <b>∡</b> ³34'15	
minimum elong	14523 Nov 23 04:44	15° <b>∡</b> ¹41'52	7°45'12	max. Earth dist.	14530 Nov 29 04:55	22° <b>₹</b> ′53′23	46.35802 AU
morning rise	14523 Dec 06 16:50	16° <b>∡</b> ¹00'52					
retrograde	14524 Mar 04 05:11	17° <b>∡</b> 13'58		conjunction	14530 Nov 30 06:29	22° <b>₹</b> 54'55	-5°59'13
opposition	14524 May 26 11:25	16° <b>≯</b> 13'12		minimum elong	14530 Nov 30 06:37	22° <b>∡</b> ¹54'56	5°58'13
min. Earth dist.	14524 May 27 04:36		45.36713 AU	morning rise	14530 Dec 14 18:27	23° <b>⋌</b> 15'44	
direct	14524 Aug 16 11:43	15° <b>∡</b> 12'53		retrograde	14531 Mar 12 13:43	24° <b>₹</b> ¹29'10	
evening set	14524 Nov 09 20:59	16° <b>∡</b> ¹23′24		opposition	14531 Jun 03 10:56	23° <b>⋌</b> ¹27'32	
		=		min. Earth dist.	14531 Jun 04 11:38		44.28360 AU
conjunction	14524 Nov 23 11:11	16° <b>∡</b> 742'34		direct	14531 Aug 24 04:13	22° <b>x</b> <sup>1</sup> 26'15	
minimum elong max. Earth dist.	14524 Nov 23 11:21	16° <b>₹</b> 42'34		evening set	14531 Nov 17 00:58	23° <b>х</b> 37'16	46 10004 ATT
	14524 Nov 22 15:30		47.27996 AU	max. Earth dist.	14531 Nov 30 10:52	23° <b>X</b> '56'32	46.18904 AU
morning rise	14524 Dec 07 03:17	17° <b>⋌</b> ¹01'51 18° <b>⋌</b> ¹14'57		:	14521 D 01 14:00	23° <b>∡</b> 58'11	5942102
retrograde opposition	14525 Mar 05 14:22 14525 May 27 17:51	18 <b>x</b> ·1437 17° <b>x</b> 14'06	7012127	conjunction minimum elong	14531 Dec 01 14:06 14531 Dec 01 14:14	23° <b>x</b> '58'12	
min. Earth dist.	14525 May 28 12:48		45.22601 AU	morning rise	14531 Dec 16 05:11	24° <b>x</b> 19'14	3 42 01
direct	14525 Aug 17 15:19	16° 🗷 13'11	43.22001 AC	retrograde	14532 Mar 12 20:18	25° × 32'46	
evening set	14525 Nov 11 00:05	17° <b>×</b> 13 41		opposition	14532 Jun 03 18:06	24°×30'58	-5°49'53
evening set	14323 1107 11 00:03	1/ 🗡 24 13		min. Earth dist.	14532 Jun 04 19:41		44.11205 AU
conjunction	14525 Nov 24 18:00	17° <b>×7</b> 43'40	-7°16'43	direct	14532 Aug 24 11:45	23°×729'30	11.11203 110
minimum elong	14525 Nov 24 18:09		7°15'43	evening set	14532 Nov 17 05:54	24° <b>×</b> <sup>7</sup> 40'38	
max. Earth dist.	14525 Nov 23 22:23		47.13808 AU				
morning rise	14525 Dec 08 13:31	18° <b>₹</b> '03'12	.,,,,,	conjunction	14532 Dec 01 21:59	25° <b>₹</b> '01'48	-5°26'38
retrograde	14526 Mar 06 20:16	19° <b>х</b> 16′20		minimum elong	14532 Dec 01 22:06	25° <b>∡</b> '01'48	5°25'37
opposition	14526 May 29 00:20	18° <b>∡</b> 15′23	-7°28'04	max. Earth dist.	14532 Nov 30 18:15	25° <b>∡</b> ¹00'07	46.01691 AU
min. Earth dist.	14526 May 29 19:51	18° <b>∡</b> 14'27	45.08083 AU	morning rise	14532 Dec 16 15:49	25° <b>∡</b> ¹23'06	
direct	14526 Aug 18 21:45	17° <b>∡</b> 14'52		retrograde	14533 Mar 14 02:15	26° <b>х</b> 36′44	
evening set	14526 Nov 12 03:43	18° <b>≮</b> ¹25'30		opposition	14533 Jun 05 01:34	25° <b>х</b> 34'45	-5°32'40
max. Earth dist.	14526 Nov 25 03:20	18° <b>∡</b> ⁴43'53	46.99192 AU	min. Earth dist.	14533 Jun 06 04:19	25° <b>∡</b> ³33′26	43.93760 AU
				direct	14533 Aug 25 21:35	24° <b>∡</b> °33′07	
conjunction	14526 Nov 26 00:58	18° <b>∡</b> ¹45'10	-7°01'39	evening set	14533 Nov 18 11:04	25° <b>∡</b> ¹44'24	
minimum elong	14526 Nov 26 01:07	18° <b>∡</b> ¹45'11	7°00'39	max. Earth dist.	14533 Dec 02 01:44	26° <b>х</b> 04′05	45.84224 AU
morning rise	14526 Dec 10 00:06	19° <b>∡</b> 04'58					
retrograde	14527 Mar 08 03:44	20° <b>∡</b> 18′09		conjunction	14533 Dec 03 05:52	26° <b>∡</b> ¹05'47	-5°09'59
opposition	14527 May 30 06:59	19° <b>∡</b> 17′06		minimum elong	14533 Dec 03 05:59	26° <b>₹</b> 05'48	5°08'57
min. Earth dist.	14527 May 31 03:29		44.93115 AU	morning rise	14533 Dec 18 02:24	26° <b>₹</b> 27'19	
direct	14527 Aug 20 03:50	18° <b>≯</b> 16'28		retrograde	14534 Mar 15 11:23	27° <b>∡</b> ¹41'06	
evening set	14527 Nov 13 07:27	19° <b>∡</b> 27′09		opposition	14534 Jun 06 09:04	26° <b>∡</b> ³38'58	
max. Earth dist.	14527 Nov 26 09:32	19° <b>∡</b> ¹45'44	46.84077 AU	min. Earth dist.	14534 Jun 07 11:24		43.76078 AU
	1450531 05 00 11	100 7 4710 5	6046100	direct	14534 Aug 27 04:37	25° 🗷 37'09	
conjunction	14527 Nov 27 08:11	19° <b>∡</b> 747'05		evening set	14534 Nov 19 16:38	26° <b>₹</b> 48'35	45 CC510 4XX
minimum elong	14527 Nov 27 08:19	19° 🖈 47'05	6°45'22	max. Earth dist.	14534 Dec 03 08:24	27° <b>×</b> ′08′24	45.66518 AU
morning rise	14527 Dec 11 10:40	20° <b>₹</b> 07'09			14524 D 04 12 57	270 710112	4052107
retrograde opposition	14528 Mar 08 10:28	21° <b>х</b> 20′23 20° <b>х</b> 19′12	6056117	conjunction minimum elong	14534 Dec 04 13:57 14534 Dec 04 14:03	27° <b>₹</b> 10'13 27° <b>₹</b> 10'13	
min. Earth dist.	14528 May 30 13:54		-0 3017 44.77627 AU	morning rise		27° <b>x</b> '1013	4 32 04
direct	14528 May 31 12:13 14528 Aug 20 12:03	20 <b>x</b> · 18 08 19° <b>x</b> 18′26	44.77027 AU	retrograde	14534 Dec 19 13:11 14535 Mar 16 22:21	28° <b>x</b> 45'55	
evening set	14528 Nov 13 11:34	20°×729'11		opposition	14535 Jun 07 16:53	27° <b>х</b> 43'37	-1°57'27
evening set	143201101 13 11.54	20 7 27 11		min. Earth dist.	14535 Jun 08 20:46		43.58178 AU
conjunction	14528 Nov 27 15:36	20° <b>₹</b> '49'22	-6°30'53	direct	14535 Aug 28 09:28	26° <b>×</b> <sup>7</sup> 41'38	13.30170710
minimum elong	14528 Nov 27 15:45	20° <b>×</b> <sup>7</sup> 49'22		evening set	14535 Nov 20 22:20	27° <b>₹</b> 53'15	
max. Earth dist.	14528 Nov 26 16:01		46.68456 AU			_, , , , , , ,	
morning rise	14528 Dec 11 21:20	21° <b>×</b> <sup>7</sup> 09'41		conjunction	14535 Dec 05 22:20	28° <b>∡</b> 15'07	-4°35'57
retrograde	14529 Mar 09 19:19	22° <b>х</b> 22'58		minimum elong	14535 Dec 05 22:27	28° <b>∡</b> 15'07	
opposition	14529 May 31 20:39	21° <b>ҳ</b> 21'40	-6°40'03	max. Earth dist.	14535 Dec 04 17:10	28° <b>∡</b> 13′20	45.48597 AU
min. Earth dist.	14529 Jun 01 19:14		44.61638 AU	morning rise	14535 Dec 20 23:56	28° <b>∡</b> ³37′06	
direct	14529 Aug 21 18:00	20° <b>х</b> 20′43		retrograde	14536 Mar 17 08:22	29° <b>∡</b> 751'14	
evening set	14529 Nov 14 15:54	21° <b>∡</b> ³31'33		opposition	14536 Jun 08 00:48	28° <b>х</b> 48'46	-4°39'27
				min. Earth dist.	14536 Jun 09 04:36	28° <b>∡</b> 747'24	43.40043 AU
conjunction	14529 Nov 28 23:00	21° <b>₹</b> '51'59	-6°15'10	direct	14536 Aug 28 15:32	27° <b>∡</b> ¹46'37	
minimum elong	14529 Nov 28 23:08	21° <b>₹</b> 51'59	6°14'09	evening set	14536 Nov 21 04:41	28° <b>∡</b> ¹58'27	
max. Earth dist.	14529 Nov 27 21:19		46.52340 AU	max. Earth dist.	14536 Dec 04 23:57	29° <b>∡</b> 18'39	45.30428 AU
morning rise	14529 Dec 13 08:02	22° <b>∡</b> 12'32					
retrograde	14530 Mar 11 06:39	23° <b>₹</b> 25'54		conjunction	14536 Dec 06 06:53	29° <b>∡</b> ¹20'33	
opposition	14530 Jun 02 03:47	22° <b>҂</b> ¹24'26	-6°23'34	minimum elong	14536 Dec 06 06:59	29° <b>∡</b> ′20′33	4°17'33
min. Earth dist.	1 4 5 2 0 7	220 =	44 45505 :==		145065	200	
direct	14530 Jun 03 04:16 14530 Aug 22 21:00	22° <b>∡</b> <sup>7</sup> 23'15 21° <b>∡</b> <sup>7</sup> 23'20	44.45197 AU	morning rise	14536 Dec 21 11:00 14537 Jan 02 18:20	29° <b>メ</b> *42'46 0°る	

page 33

behind sun end	14549 Dec 22 02:25	14°る23'55	min. Earth dist.	14556 Jul 03 15:10	22°る42'39 39.10708 AU
morning rise	14550 Jan 06 18:48	14° <b>ろ</b> 48'24	direct	14556 Sep 20 18:39	21°る37'47
retrograde	14550 Apr 03 17:38	16°る07'08	evening set	14556 Dec 15 03:36	22°る58'30
opposition	14550 Jun 24 15:44	15°る01'44 -0°01'02	max. Earth dist.	14556 Dec 28 18:48	23°る20'42 40.98558 AU
min. Earth dist.	14550 Jun 26 07:23	14°る59'38 40.51471 AU			
asc. node	14550 Jul 12 01:41	14° <b>る</b> 40'09	conjunction	14556 Dec 30 20:32	23°る24'06 2°17'26
direct	14550 Sep 13 20:39	13° <b>る</b> 56'21	minimum elong	14556 Dec 30 20:29	23°る24'06 2°18'25
evening set	14550 Dec 07 13:36	15° <b>る</b> 13'18	morning rise	14557 Jan 15 14:36	23° <b>る</b> 49'48
max. Earth dist.	14550 Dec 21 15:16	15°る35'20 42.40394 AU	retrograde	14557 Apr 13 00:26	25° <b>る</b> 12'43
			opposition	14557 Jul 03 08:55	24° <b>る</b> 05'16 2°36'12
conjunction	14550 Dec 23 09:53	15° <b>る</b> 38'09 0°09'16	min. Earth dist.	14557 Jul 05 06:35	24°る02'46 38.86339 AU
minimum elong	14550 Dec 23 09:53	15°る38'09 0°10'18	direct	14557 Sep 22 05:29	22° <b>る</b> 57'38
behind sun begin	14550 Dec 23 04:47	15° <b>る</b> 37'50	evening set	14557 Dec 16 19:47	24° <b>る</b> 19'05
behind sun end	14550 Dec 23 14:58	15° <b>る</b> 38'28	max. Earth dist.	14557 Dec 30 10:21	24°る41'23 40.74068 AU
morning rise	14551 Jan 08 07:24	16° <b>る</b> 03'07			
retrograde	14551 Apr 05 07:18	17° <b>る</b> 22'23	conjunction	14558 Jan 01 11:31	24° <b>る</b> 44'46 2°39'29
opposition	14551 Jun 26 03:22	16°る16'45 0°20'44	minimum elong	14558 Jan 01 11:27	24°る44'46 2°40'29
min. Earth dist.	14551 Jun 27 18:58	16°る14'39 40.28886 AU	0	14558 Jan 17 04:01	25° <b>る</b> 10'33
direct	14551 Sep 15 06:32	15° <b>පි</b> 11'07	retrograde	14558 Apr 14 16:06	26° <b>පි</b> 34'11
evening set	14551 Dec 09 02:35	16°පි28'38	opposition	14558 Jul 04 23:06	25°පි26'23 2°59'32
max. Earth dist.	14551 Dec 23 01:56	16°る50'40 42.17619 AU		14558 Jul 06 20:17	25° <b>ප්</b> 23'54 38.61857 AU
		<b>.–</b>	direct	14558 Sep 23 18:46	24° <b>る</b> 18'24
conjunction	14551 Dec 24 22:44	16°る53'38 0°30'05	evening set	14558 Dec 18 12:56	25° <b>3</b> 40'38
minimum elong	14551 Dec 24 22:43	16°る53'38 0°31'07	max. Earth dist.	14559 Jan 01 00:20	26°る02'52 40.49487 AU
morning rise	14552 Jan 09 20:19	17° <b>る</b> 18'45		14550 1 02 02 55	260706102 2001142
retrograde	14552 Apr 05 23:32	18° <b>ろ</b> 38'35	conjunction	14559 Jan 03 02:55	26°る06'23 3°01'43
opposition	14552 Jun 26 15:32	17°る32'42 0°42'44 17°る30'30 40.05927 AU	minimum elong	14559 Jan 03 02:50	26°පි06'23 3°02'42 26°පි32'13
min. Earth dist.	14552 Jun 28 09:04	1/°63030 40.03927A0 16°626'47	0	14559 Jan 18 17:55	20° <b>ろ</b> 5213 27° <b>ろ</b> 56'37
direct	14552 Sep 15 15:23 14552 Dec 09 16:01	16 <b>8</b> 2647 17° <b>8</b> 44'54	retrograde opposition	14559 Apr 16 11:23 14559 Jul 06 13:39	26°る48'29 3°23'05
evening set max. Earth dist.	14552 Dec 23 15:02	17 844 34 18°る07'02 41.94449 AU	1.1	14559 Jul 08 11:40	26°る45'57 38.37321 AU
max. Lattii uist.	14332 DCC 23 13.02	18 <b>0</b> 07 02 41.94449 AO	direct	14559 Sep 25 06:33	25°る40'08
conjunction	14552 Dec 25 12:06	18°る10'02 0°51'08	evening set	14559 Dec 20 06:39	27° <b>ろ</b> 03'12
minimum elong	14552 Dec 25 12:05	18°る10'02 0°52'09	max. Earth dist.	14560 Jan 02 16:23	27°る25'29 40.24839 AU
morning rise	14553 Jan 10 09:14	18°る35'17	max. Lartii dist.	14300 3411 02 10.23	27 02327 40.24037 110
retrograde	14553 Apr 07 14:53	19° <b>る</b> 55'41	conjunction	14560 Jan 04 18:56	27° <b>♂</b> 29'01 3°24'08
opposition	14553 Jun 28 03:53	18°る49'31 1°04'58	minimum elong	14560 Jan 04 18:51	27° <b>ට</b> 29'01 3°25'06
min. Earth dist.	14553 Jun 29 21:57	18°る47'17 39.82576 AU		14560 Jan 20 07:53	27° <b>る</b> 54'55
direct	14553 Sep 17 02:51	17° <b>る</b> 43'17	retrograde	14560 Apr 17 04:42	29° <b>る</b> 20'07
evening set	14553 Dec 11 06:07	19° <b>ろ</b> 02'02	opposition	14560 Jul 07 04:45	28° <b>ට</b> 11'40 3°46'48
max. Earth dist.	14553 Dec 25 02:47	19°る24'09 41.70912 AU	min. Earth dist.	14560 Jul 09 03:14	28°る09'05 38.12727 AU
			direct	14560 Sep 25 21:42	27° <b>る</b> 02'58
conjunction	14553 Dec 27 01:39	19° <b>る</b> 27'18 1°12'24	evening set	14560 Dec 21 01:12	28° <b>る</b> 26'55
minimum elong	14553 Dec 27 01:37	19°る27'18 1°13'25	max. Earth dist.	14561 Jan 03 08:12	28°る49'10 40.00147 AU
morning rise	14554 Jan 11 22:28	19° <b>る</b> 52'41			
retrograde	14554 Apr 09 07:32	21° <b>る</b> 13'40	conjunction	14561 Jan 05 11:16	28° <b>ප</b> 52'47 3°46'41
opposition	14554 Jun 29 16:38	20°る07'12 1°27'26	minimum elong	14561 Jan 05 11:11	28° <b>る</b> 52'46 3°47'38
min. Earth dist.	14554 Jul 01 11:34	20°る04'54 39.58894 AU	morning rise	14561 Jan 20 22:06	29° <b>る</b> 18'43
direct	14554 Sep 18 14:12	19° <b>る</b> 00'38		14561 Feb 16 23:20	0° <b>≈</b>
evening set	14554 Dec 12 20:33	20°පි20'00	retrograde	14561 Apr 18 22:51	0° <b>≈</b> 44'46
max. Earth dist.	14554 Dec 26 15:51	20°る42'11 41.47038 AU		14561 Jun 20 13:00	30°₹ <b>⋜</b>
			opposition	14561 Jul 08 20:07	29°중36'00 4°10'41
conjunction	14554 Dec 28 15:32	20°₹45'24 1°33'53	min. Earth dist.	14561 Jul 10 18:27	29°る33'25 37.88092 AU
minimum elong	14554 Dec 28 15:29	20°る45'24 1°34'53	direct	14561 Sep 27 12:26	28° <b>る</b> 26'57
morning rise	14555 Jan 13 11:35	21°る10'54	evening set	14561 Dec 22 20:31	29° <b>る</b> 51'51
retrograde	14555 Apr 10 19:32	22°る32'30 21°る25'42 1°50'08	F4h Ji-4	14561 Dec 27 17:23	0°≈ 0°≈ 1402 30.75372 ALL
opposition min. Earth dist.	14555 Jul 01 05:49 14555 Jul 03 02:02	21°号25'42 1°50'08 21°号23'19 39.34911 AU	max. Earth dist.	14562 Jan 05 00:00	0°≈14'02 39.75372 AU
direct	14555 Jul 03 02:02 14555 Sep 20 04:30	20°중18'48	conjunction	14562 Jan 07 04:10	0°≈17'45 4°09'23
evening set	14555 Dec 14 11:44	20 81848 21° <b>8</b> 38'50	minimum elong	14562 Jan 07 04:10	0 ≈1743 4 0923 0°≈17'44 4°10'21
max. Earth dist.	14555 Dec 28 05:52	21 03830 22°る01'03 41.22906 AU	_	14562 Jan 22 12:30	0 ≈1744 4 1021 0°≈43'43
max. Durin dist.	11000 Dec 20 00.02	22 30105 41.22700 AU	retrograde	14562 Apr 20 15:12	0 ≈43 43 2°≈10'41
conjunction	14555 Dec 30 05:53	22°る04'20 1°55'33	opposition	14562 Jul 10 12:11	1°≈01'36 4°34'45
minimum elong	14555 Dec 30 05:51	22°る04'20 1°56'33	min. Earth dist.	14562 Jul 12 11:56	0°≈58'55 37.63366 AU
morning rise	14556 Jan 15 01:03	22° <b>る</b> 29'56		14562 Sep 04 14:51	30°Rる
retrograde	14556 Apr 11 08:35	23°る52'10	direct	14562 Sep 29 03:18	29° <b>පි</b> 52'13
opposition	14556 Jul 01 19:02	22° <b>る</b> 45'03 2°13'04		14562 Oct 23 08:37	0° <b>≈</b>

March   Earth dist	evening set	14562 Dec 24 16:33	1°≈18'06	opposition	14569 Jul 20 18:10	11°≈37'51 7°26'40
	•			11		
	max. Earm dist.	14303 Jan 00 17.44	1 ≈40 17 39.30479 AC			
morning mice   1853 and 20 at 20   1944 100   473 ypb   morning mice   1853 and 20 at 20   274 ypb   714	:	145(2 I 00 21.2(	100044100 4022112			
Manufact   1450, Apr 24 0.050   29-0879   1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	-			_		
Proposition   1450 Jul 19   1450 Jul 19   1509   1745   1750   1745   1750   1745   1750   1745   1750   1745   1750   1745   1750   1745   1750				max. Earth dist.	145/0 Jan 1/ 06:32	12°≈20′43 37./1520 AU
	-				14570 1 10 15 00	100 - 25101 - 5014142
min. Earth dist.         1456 Say 30 ld 40408         2°exis 579 (37.8492 M)         memmar min. ent distored (1457 May 08) 141 (20.142)         1457 May 08 141 (20.142)         478 May 08 174 (20.142)         3°exis 579 (40.142)         41467 May 08 174 (20.142)         3°exis 579 May 18 (20.142)         41470 May 08 174 (20.142)         3°exis 570 May 18 (20.142)         41470 May 08 174 (20.142)         20.142 May 18 (20.142)         3°exis 570 May 18 (20.142)         41470 May 08 174 (20.142)         3°exis 570 May 18 (20.142)         3°exis 570 May	•			•		
Marche   1456 Sep   20   18.17   **Pas   18.77   **Pas   18.				•		
New No.   1456				=		
March   Marc				-	•	
conjunction         14564 Im 10 15.39         35% 1175         459511 st         evening set evening set 1457 Im 10 10.00         127-12 172-12 172-1255         125% 155         475 17 17 172-12 172-1255         125% 155         475 17 172-12 172-1255         575 172-12 172-1255         575 172-12 172-1255         575 172-12 172-1255         575 172-12 172-125-1255         575 172-12 172-125-125-125-125         475 456 18 172-125-125         475 456 18 12 172-125-125         475 456 18 12 172-125-125-125         475 456 18 12 172-125-125-125         475 456 18 12 172-125-125-125-125         475 456 18 12 172-125-125-125-125-125-125-125-125-125-12	•					
	max. Earth dist.	14564 Jan 08 09:42	3°≈07'42 39.25390 AU			
minimum clong						
Information				· ·		
Percentage   1456   Apr   23   60.00   \$3-806-30   \$	_	14564 Jan 10 15:31		max. Earth dist.	14571 Jan 19 03:06	13°≈57'41 37.45846 AU
Population	-					
min. Earth dist.         445 Al Jul 4 22-46         39-85/38         31.342 AU         meming rise         44571 Feb 40         341         478-62719           evening set         14564 Dec 27 11:37         478-4138         retrograde         14571 Jul 18 200         11-58         167-60428           max. Earth dist.         14565 Jan 09 04:24         478-4033         351815         min. Earth dist.         14571 Jul 26 14:56         147-86-2013         876-107           conjunction         14565 Jan 16:01         478-4033         511905         min. Earth dist.         14571 Jul 26 14:56         147-86-2013         53-488-8AU           morning rise         14565 Jan 26:01         50         59-96-625         evening set         14572 Jan 01 01:51         157-86-885         53-488-8AU           erbogate         14565 Jan 26:01         14 15:66         58-86-22         67-474         max. Farth dist.         14572 Jan 21 12:3         157-86-818         37-2031 AU           direct         14565 Jan 16:10         151.51         67-86-15         evening set         14572 Jan 21 12:3         157-86-818         37-2031 AU           min. Earth dist.         14566 Jan 16:01         150.01         57-46-55         67-80-10         minimum clong         14572 Jan 21 12:3         157-86-602         870-10 <td>-</td> <td>14564 Apr 23 06:00</td> <td>5°≈06'30</td> <td>·</td> <td>14571 Jan 21 12:55</td> <td>14°≈02'06 7°38'03</td>	-	14564 Apr 23 06:00	5°≈06'30	·	14571 Jan 21 12:55	14°≈02'06 7°38'03
Company   Comp	* *	14564 Jul 12 21:33	3°≈56'46 5°23'18	minimum elong	14571 Jan 21 12:44	14°≈02'05 7°38'52
evening set   14564 Dec 27 11.37   4"sel-1/38   refrograde   14571 May 05 11.58   6"sel-04"28   refrograde   14571 May 05 11.58   15"sel-04"28   refrograde   14571 May 05 11.58   15"sel-04"20   refrograde   14565 Jan 1 1 10.22   4"sel-0403   5"l815   min. Earth dist.   14571 Jul 2 4 11.01   14"sel-5201   \$15"sel-05"20   refrograde   14565 Jan 1 1 10.14   4"sel-0403   5"l9199   direct   14571 Jul 2 4 11.01   11"sel-38"58'5   14565 Jan 1 1 10.14   4"sel-0403   5"l9199   direct   14572 Jan 0 10.15   15"sel-15"5   refrograde   14565 Jan 1 1 10.14   4"sel-0403   5"sel-0220   14572 Jan 0 10.15   15"sel-15"5   refrograde   14565 Jan 1 1 10.16   5"sel-2330   3.68313 AU   direct   14565 Jan 1 0 12.157   6"sel-0415   5"sel-2330   3.68313 AU   direct   14565 Jan 1 0 12.157   6"sel-0415   5"sel-15"5   refrograde   14572 Jan 1 21.10   15"sel-15"5   refrograde   14572 Jan 1 10.14   15"sel-15"1   refrograde   14573 Jan 1 10.14   refrograde   14573 Jan 1 10.14   refrograde   14573 Jan 1 10.14   refrograde   refrograde   14574 Jan 1 10.14   refrograde   refr	min. Earth dist.	14564 Jul 14 22:46	3°≈53'58 37.13421 AU	morning rise	14571 Feb 04 08:31	14° <b>≈</b> 27'19
Max. Earth dist.	direct	14564 Oct 01 07:04	2° <b>≈</b> 46′39		14571 Feb 23 07:31	15° <b>≈</b>
Conjunction	evening set	14564 Dec 27 11:37	4° <b>≈</b> 14'38	retrograde	14571 May 05 11:58	16° <b>≈</b> 04'28
Comminiment   14565 Jan   11 10:124   428-40730   5°18°15   min   Earth dist   14571 Dot 12 10:56   1478-4855   3.348'88 AU minimum clong   14565 Jan   26 09:21   5°840626	max. Earth dist.	14565 Jan 09 04:24	4°≈36'35 39.00080 AU	ſ	14571 Jul 18 20:30	15°R <b>≈</b>
minimum clong   14565 Jan   1 10-14   4%-40/30   5°19/09   direct   14577 Jan   0 10-15   15%-48-148   14565 Jan   26 09-21   5°8-40/25   48-40/25   5°8-40/25   48-40/25   5°8-40/25   48-40/25   5°8-40/25   48-40/25   5°8-40/25   48-40/25   5°8-40/25   48-40/25   5°8-40/25   68-40/25				opposition	14571 Jul 24 11:01	14°≈52'01 8°16'17
Morning rise   14565 Apr   26 09-21   5°8-06/25   5°4147   max. Earth dist.   14572 Jan   00   21:50   15°8-3618   37.20313 AU min. Earth dist.   14565 Apr   25 01:54   5°8-28230   36.88130 AU direct   14565 Jul   14 15:06   5°8-28230   36.88130 AU direct   14565 Dec   29 10:20   5°8-28415   5°8-28230   36.88130 AU direct   14565 Dec   29 10:20   5°8-28415   5°8-28230   36.88130 AU direct   14565 Dec   29 10:20   5°8-28415   5°8-28230   36.88130 AU direct   14565 Dec   29 10:20   5°8-28415   5°8-2810   37.4911   37.491	conjunction	14565 Jan 11 10:22	4°≈40'30 5°18'15	min. Earth dist.	14571 Jul 26 14:56	14° <b>≈</b> 48'55 35.34858 AU
Proposition   14565 Apr   25 of 154   6"8940"2   5"4747   max. Earth dist.   14565 Jul   14   15.06   5"824203   3688130 AU	minimum elong	14565 Jan 11 10:14	4°≈40'30 5°19'09	direct	14571 Oct 12 10:56	13° <b>≈</b> 38'55
Poposition   14565 Jul   14 1506   5*8e2623   5*4747   min. Earth dist.   14572 Jan   21 0.2.2   15*843618   37.20313 AU min. Earth dist.   14565 Jul   16 16.31   5*8e2330   36.88130 AU direct   14565 Oct   3 00.05   4*8e1550   minimum elong   14572 Jan   23 11.23   15*8e4042   8*0208   max. Earth dist.   14566 Jan   10 21.557   6*8e1044   8*7451 AU moming rise   14572 Jan   23 11.23   15*8e4042   8*0208   max. Earth dist.   14566 Jan   13 05.17   6*8e1044   5*4220   minimum elong   14566 Jan   13 05.08   6*8e1044   5*4220   min. Earth dist.   14572 Jan   21 02.13   17*8e4174   8*1410   moming rise   14566 Jan   13 05.08   6*8e1044   5*4220   min. Earth dist.   14572 Jan   21 0.2.1   0.78e3618   35.9061 AU moming rise   14566 Jan   13 05.08   6*8e3712   6*8e	morning rise	14565 Jan 26 09:21	5°≈06'26		14572 Jan 01 01:51	15° <b>≈</b>
Min. Earth dist.	retrograde	14565 Apr 25 01:54	6°≈36′25	evening set	14572 Jan 09 21:50	15° <b>≈</b> 15'45
min Earth dist	opposition	14565 Jul 14 15:06	5°≈26'20 5°47'47	max. Earth dist.	14572 Jan 21 02:21	15°≈36'18 37.20313 AU
Part		14565 Jul 16 16:31	5°≈23'30 36.88130 AU	ſ		
Max. Earth dist.   14566 Jan 10 21:57   6°≈06'41 38.74571 AU   morning rise retrograde   14572 Jan 12 60 11.06   16°≈06'42   17°≈44'15   17°≈44'15   17°≈44'15   17°≈45'14   14566 Jan 13 05:08   6°≈10'45 5°41'26   min. Earth dist.   14572 Jul 27 12.03   16°≈28'18   35.09616 AU   morning rise   14566 Jan 13 05:08   6°≈10'45 5°41'26   min. Earth dist.   14572 Jul 27 12.03   16°≈28'18   35.09616 AU   morning rise   14566 Jan 18 00.03   6°≈10'45 5°41'26   min. Earth dist.   14572 Jul 27 12.03   16°≈28'18   35.09616 AU   morning rise   14566 Jul 18 11:10   6°≈54'20   6°25'20   6°25'20   max. Earth dist.   14573 Jul 22 0 1:08   17°≈16'28   36.94972 AU   min. Earth dist.   14566 Jul 18 11:10   6°≈54'20   36.2674 AU   min. Earth dist.   14567 Jul 12 17:00   7°≈48'20   5°≈46'17   minimum clong   14573 Jul 24 10:34   17°≈20'57   8°24'32   cvening set   14566 Dec 31 09:54   7°≈41'83   8°48'89 AU   morning rise   14573 Jul 24 10:34   17°≈20'56   8°25'19   max. Earth dist.   14573 Jul 24 10:34   17°≈20'56   8°25'19   morning rise   14567 Jul 18 03:37   8°≈08'60   6°370'54   min. Earth dist.   14573 Jul 29 09:42   18°≈40'54   18°≈40'80   18°	direct	14565 Oct 03 00:05	4°≈15'50	conjunction	14572 Jan 23 11:35	15°≈40'43 8°01'21
max. Earth dist.         14566 Jan 10 21:57         6°≈06/41 8.741 AU         morning rise retrograde retrograde retrograde (14572 May 06 12:31 17°≈44115         16°≈06/34 17°≈44115         4°160 Jan 13 05:10         6°≈10'45 5°41'26 opposition 14572 Jal 26 12:31 17°≈44115         17°≈44'15 30.961 AU         4°10 Jal 26 Jan 13 05:08         6°≈10'45 5°41'26 opposition 14572 Jal 27 12:03 16°≈28'18 3.09616 AU         30.9616 AU         4°160 Jan 13 05:08 6°≈10'44 5°42'20 min. Earth dist. 14572 Jal 27 12:03 16°≈28'18 3.09616 AU         30.9616 AU         4°10 Jal 27 12:09 min. Earth dist. 14572 Jal 27 12:03 10'747 15°≈1753         30.9616 AU         4°10 Jal 27 12:09 min. Earth dist. 14573 Jal 27 12:09 12:40 15°≈24'13         30.9487 Jal 27 12:09 12:40 15°≈24'13         30.9616 AU         4°10 Jal 27 12:09 12:40 15°≈24'13         30.9487 Jal 27 12:09 16°≈24'13         30.9497 Jal 27 12:09 12:40 15°≈24'13         30.9497 Jal 27 12:29 12:40 12:40 12:40 12:40 12:40 12:40 12:40 12:40 12:40 12:40 12:40 12:40 12:40 1	evening set	14565 Dec 29 10:20	5° <b>≈</b> 44'55	minimum elong	14572 Jan 23 11:23	15°≈40'42 8°02'08
Conjunction   14566 Jan   3 05:17   6°≈10'45   5°41'26   opposition   14572 Jal   25 0'41.8   16°≈21'12   30'0616 AU   minimum elong   14566 Jan   28 00'43   6°≈21'03   5°41'26   min. Earth dist.   14572 Jal   20 1'2 12 0'3 16°≈21'13   30'0616 AU   min. Earth dist.   14572 Jal   20 1'2 12 0'3 16°≈21'13   30'0616 AU   min. Earth dist.   14572 Jal   20 1'03   15°≈41'75   30'0616 AU   min. Earth dist.   14573 Jan   21 0'10'3   15°≈41'75   30'0616 AU   min. Earth dist.   14573 Jan   21 0'10'3   15°≈41'75   30'09172 AU   min. Earth dist.   14566 Jal   18 11:10   6°≈54'20   36.62674 AU   direct   14566 Oct   04 1'7.22   5°≈46'17   conjunction   14573 Jan   24 10.45   17°≈20'57   8°24'32   cevening set   14566 Dec   31 0'5'4   7°≈48'20   38.8889 AU   morning rise   14573 Jan   24 10.45   17°≈20'57   8°24'32   conjunction   14573 Jan   24 10.45   17°≈20'57   8°24'32   conjunction   14567 Jan   15 00.59   7°≈42'17   6°05'34   min. Earth dist.   14573 Jan   24 10.45   18°≈40'22   34.845'8 AU   morning rise   14567 Jan   15 00.59   7°≈42'17   6°05'34   min. Earth dist.   14573 Jan   24 00.47   18°≈40'22   34.845'8 AU   morning rise   14567 Jan   15 00.59   7°≈42'17   6°05'34   min. Earth dist.   14573 Jan   24 00.47   18°≈40'22   34.845'8 AU   morning rise   14567 Jan   29 0'617   8°≈40'27   6°05'34   min. Earth dist.   14573 Jan   29 0'942   18°≈40'22   34.845'8 AU   morning rise   14567 Jan   29 0'617   8°≈40'27   6°05'34   min. Earth dist.   14573 Jan   24 0'047   18°≈36'22   36.69797 AU   min. Earth dist.   14567 Jan   29 0'04'2   8°≈40'27   8°≈40'27   6°05'34   min. Earth dist.   14573 Jan   29 0'04'2   18°≈36'22   36.69797 AU   min. Earth dist.   14567 Jan   29 0'04'2   8°≈40'27   8°≈40'27   6°05'34   6°07'05   max. Earth dist.   14574 Jan   26 0'021   19°≈02'54   8°47'37   6°05'34   6°07'05   6°28'35   min. Earth dist.   14574 Jan   20 0'03'1   19°≈02'54   8°48'33   10°30'1   10°≈02'54   8°≈40'37   6°09'05'05   6°28'53   min. Earth dist.   14574 Jan   20 0'05'1   19°≈02'73   36'90'1   10°≈00'107   36'90'05'05	•	14566 Jan 10 21:57	6°≈06'41 38.74571 AU	morning rise	14572 Feb 06 01:06	16°≈05'42
Conjunction   14566 Jan   13 05:17   05%105   05%104   05%104   05%105				=	14572 May 06 12:31	17° <b>≈</b> 44'15
minimum elong	conjunction	14566 Jan 13 05:17	6°≈10'45 5°41'26	•	•	16°≈31'24 8°41'01
moming rise   14566 Jan   28   00:43   6°≈36′37   certograde   cevening set   14573 Jan   11   03:24   16°≈65′14   1456 Jan   14566 Jan   16   09:08   6°≈57′12   6°12′23   max. Earth dist.   14573 Jan   12   01:08   17°≈16′28   36.94972 AU   16°≈56′14   14566 Jan   18   11:10   6°≈54′20   36.62674 AU   14566 Jan   18   11:10   6°≈54′20   36.62674 AU   14566 Jan   18   11:10   6°≈54′20   36.62674 AU   14566 Jan   14566 Dec   31   09:54   7°≈16′33   7°≈316′33   14567 Jan   12   17:00   7°≈38′09   38.48889 AU   morning rise   14573 Jan   24   10:45   17°≈20′57   8°24′32   14567 Jan   15   00:50   7°≈41′8   6°04′41   opposition   14573 Jan   24   10:45   17°≈20′57   8°24′32   14567 Jan   15   00:50   7°≈41′8   6°04′41   opposition   14573 Jan   20   09:42   18°≈02′2   34.8578 AU   morning rise   14567 Jan   29   16:17   8°≈30′8   6°04′41   opposition   14573 Jan   20   09:42   18°≈02′2   34.8578 AU   min. Earth dist.   14573 Jan   20   09:42   18°≈02′2   34.8578 AU   16°≈573   12°≈02′3   34.8578 AU   15   00:50   7°≈41′8   6°04′41   opposition   14573 Jan   20   09:42   18°≈02′2   34.8578 AU   16°≈573   12°≈02′3	3			* *		
Petrograde   14566 Apr   27   00:39   8°\$\infty \ 7'\$\infty   20'123   max. Earth dist.   14573 Jan   11   03:24   17°\$\infty \ 16'\infty \ 17°\$\infty \ 16'\infty \ 17°\$\infty \ 16'\infty \ 18'\infty \ 18'\in	_					
Proposition   14566 Jul   16 09.08   6°≈5712   6°12'23   max. Earth dist.   14573 Jan   22 01:08   17°≈16'28   36.94972 AU   min. Earth dist.   14566 Jul   18 11:10   6°≈54'20   36.62674 AU   direct   14566 Oct   04 17:22   5°≈≈4'17   conjunction   14573 Jan   24 10:45   17°≈20'57   8°24'32   evening set   14566 Occ   31 09:54   7°≈16'33   minimum elong   14573 Jan   24 10:45   17°≈20'57   8°24'32   evening set   14566 Jul   18 09:59   7°≈≈16'33   morning rise   14573 Feb   06 18:03   17°≈≈16'34   retrograde   14573 May   08 16:00   19°≈≈25'42   retrograde   14573 May   08 16:00   19°≈≈25'42   retrograde   14573 Jul   27 06:18   18°≈≈12'28   9°05'40   morning rise   14573 Jul   27 06:18   18°≈≈12'28   9°05'40   min. Earth dist.   14573 Jul   27 06:18   18°≈≈12'28   9°05'40   morning rise   14567 Jan   29 16:17   8°≈60'806   direct   14573 Jul   29 09:42   18°≈≈08'03   direct   14573 Jul   29 09:42   18°≈≈18'24   evening set   14567 Jul   18 03:37   8°≈≈20'24   6°37'05   max. Earth dist.   14573 Jul   29 09:42   18°≈≈18'24   evening set   14567 Jul   18 03:37   8°≈≈20'26   6°37'05   max. Earth dist.   14574 Jan   13 09:48   18°≈≈18'22   36.69797 AU   min. Earth dist.   14567 Jul   18 03:37   8°≈≈20'26   6°37'05   max. Earth dist.   14574 Jan   26 10:33   19°≈≈0'25   8°48'33   min. Earth dist.   14574 Jan   26 10:33   19°≈≈0'25   8°48'33   min. Earth dist.   14574 Jan   26 10:33   19°≈≈0'25   8°48'33   min. Earth dist.   14574 Jan   26 10:33   19°≈≈0'25   8°48'33   min. Earth dist.   14574 Jan   26 10:34   19°≈≈0'25   8°48'33   min. Earth dist.   14574 Jan   26 10:24   19°≈≈0'25   8°48'35   min. Earth dist.   14574 Jan   26 10:34   19°≈≈0'25   8°48'33   min. Earth dist.   14574 Jan   26 10:34   19°≈≈0'25   8°48'33   min. Earth dist.   14574 Jan   26 10:34   19°≈≈0'25   8°48'33   min. Earth dist.   14574 Jan   26 10:34   19°≈≈0'25   9°30'12   19°≈≈0'25   9°30'12   19°≈≈0'25   9°30'12   19°≈≈0'25   19°≈≈0'25   19°≈≈0'25   19°≈≈0'25   19°≈≈0'25   19°≈≈0'25   19°≈≈0'25   19°≈≈0'25   19°≈≈0'25   19°≈≈0'25   19°≈≈0'2	-					
min. Earth dist.         14566 Jul 8 11:10         6°≈54'20         36.62674 AU         conjunction         14573 Jan 24 10:45         17°≈20'55         8°24'32           evening set         14566 Dec 31 09:54         7°≈416'3         minimum elong         14573 Jan 24 10:45         17°≈20'55         8°25'19           max. Earth dist.         14567 Jan 12 17:00         7°≈416'3         morning rise         14573 Jan 24 10:45         17°≈40'44           conjunction         14567 Jan 15 00:59         7°≈42'18         6°04'41         opposition         14573 Jul 27 06:18         18°≈42'22         9°05'40           minimum elong         14567 Jan 15 00:59         7°≈42'17         6°05'34         min. Earth dist.         14573 Jul 27 06:18         18°≈42'22         34.84578 AU           morning rise         14567 Jan 29 16:17         8°≈808'06         direct         14573 Jul 29 09:42         18°≈45'23         34.84578 AU           retrograde         14567 Jul 20 06:47         8°≈26'26         36.37086 AU         max. Earth dist.         14574 Jan 24 00:47         18°≈45'82         36.69797 AU           direct         14567 Jul 20 06:47         8°≈42'62         36.37086 AU         minimum elong         14574 Jan 26 10:23         19°≈02'53         8°48'23           evening set         14568 Jan 16 21:11         9	-			•		
direct         14566 Oct 04 17:22 or 9×846'17 or 9×816'33         conjunction minimum elong         14573 Jan 24 10:34 17°≈20'55 8°25'19         8°24'32 or 9×815'19           max. Earth dist.         14567 Jan 12 17:00 or 7°≈38'09 38.48889 AU morning rise         minimum elong 14573 Fab 06 18:03 17°≈45'41         17°≈20'56 8°25'19           conjunction minimum elong 14567 Jan 15 00:59 or 7°≈42'18 6°04'41 or 0position 14573 Jul 27 06:18 18°≈81228 9°05'40         minimum elong 14567 Jan 15 00:50 7°≈42'17 6°05'34 min. Earth dist.         14573 Jul 27 06:18 18°≈81228 9°05'40         9°05'40 18°≈8123 Jul 27 06:18 18°≈81228 9°05'40         9°05'40 18°°×8123 Jul 27 06:18 18°≈81228 9°05'40         9°05'40 18°°×8123 Jul 27 06:18 18°≈81228 9°05'40         9°05'40 145'3 Jul 28'3 Jul 28'3 10°242 18°≈80'22 36°35'3         9°05'40 145'3 Jul 28'3 Jul 28'3 10°242 18°≈80'22 36°35'3         9°05'40 145'3 Jul 28'3 Jul 28'3 18°≈80'22 36°35'3         9°05'40 145'3 Jul 28'3 Jul 28'3 19°≈80'25 36°35'3         9°05'40 145'3 Jul 28'3 Jul 28'3 19°≈80'25 36°35'3         9°05'40 145'3 Jul 28'3 Jul 28'3 15'3 18°≈80'25 36°35'3         9°05'40 145'3 Jul 28'3 15'3 Jul 28'3 15'3 18°≈80'25 36°35'3         9°05'40 145'3 Jul 28'3 15'3 18°3					1.075 van 22 01.00	1, 101020 300, 10, 12110
evening set         14566 Dec 31 09:54         7%≈16'33         minimum elong         14573 Jan 24 10:34         17°≈20'56         8°25'19           max. Earth dist.         14567 Jan 12 17:00         7°≈38'09         38.48889 AU         minimum elong         14573 Feb 06 18:03         17°≈45'41         17°≈45'41           conjunction         14567 Jan 15 00:59         7°≈42'18         6°04'41         opposition         14573 May 08 16:00         19°≈25'42         9°05'40           minimum elong         14567 Jan 20 15 00:50         7°≈42'18         6°04'41         opposition         14573 Jul 29 09:42         18°≈80'922         34.84578 AU           morning rise         14567 Jan 20 15:17         8°≈80'806         direct         14573 Jul 29 09:42         18°≈80'922         34.84578 AU           opposition         14567 Jul 18 03:37         8°≈20'924         6°370'5         max. Earth dist.         14574 Jan 20 00:47         18°≈858'22         36.69797 AU           direct         14567 Jul 18 03:33         8°≈26'26         36.37086 AU         minimum elong         14574 Jan 26 10:31         19°≈02'54         8°47'37           direct         14568 Jan 10 21:05         8°≈26'26         36.3718 AU         morning rise         14574 Jan 26 10:31         19°≈02'53         8°48'23           max. Earth dist.					14573 Ian 24 10:45	17°≈≈20'57 8°24'32
Max. Earth dist.   14567 Jan   12   17:00   7°≈48'09   38.48889 AU   morning rise retrograde   14573 May   08   16:00   19°≈25'42   18°≈40'212				J		
Principal	•					
conjunction         14567 Jan         15         00:59         7°≈42'18         6°04'41         opposition         14573 Jul         27         06:18         18°≈12'28         9°05'40           minimum elong         14567 Jan         15         00:50         7°≈42'17         6°05'34         min. Earth dist.         14573 Jul         29         09:42         18°≈69'92         34.84578 AU           morning rise         14567 Jan         29         16:17         8°≈808'06         direct         14573 Jul         29         09:42         18°≈68'32         34.84578 AU           opposition         14567 Jul         18         03:337         8°≈29'24         6°37'05         max. Earth dist.         14574 Jan         24         0:47         18°≈58'22         36.69797 AU           direct         14567 Jul         20         06:47         8°≈26'26         36.37086 AU         wereining set         14568 Jan         12         12:55         8°≈40'31         minimum elong         14574 Jan         26         10:33         19°≈02'54         8°47'37           evening set         14568 Jan         16         21:11         9°≈10'58         38.23117 AU         minimum elong         14574 Jan         26         10:21         19°≈27'20         8°43'33     <	max. Earth dist.	14307 Juli 12 17.00	7 ~ 30 07 30.40007 110	-		
minimum elong	conjunction	1/1567 Ian 15 00:59	7°∞42'18 6°04'41	-	•	
morning rise retrograde 14567 An 29 16:17 8°≈08'06 evening set 14573 Oct 15 04:45 16°≈58'32 evening set 14574 Jan 13 09:48 18°≈38'29 goposition 14567 Jul 18 03:37 8°≈29'24 6°37'05 max. Earth dist. 14574 Jan 24 00:47 18°≈58'32 36.69797 AU min. Earth dist. 14567 Jul 18 03:37 8°≈29'24 6°37'05 max. Earth dist. 14574 Jan 24 00:47 18°≈58'32 36.69797 AU min. Earth dist. 14567 Oct 10 11:47 7°≈18'04 cvening set 14568 Jan 10 10:25 8°≈49'31 minimum elong 14574 Jan 26 10:33 19°≈02'54 8°48'23 minimum elong 14568 Jan 10 12:59 9°≈10'58 38.23117 AU morning rise 14574 May 10 16:54 21°≈08'54 retrograde 14568 Jan 16 21:11 9°≈15'10 6°28'00 opposition 14574 Jul 29 05:07 19°≈55'18 9°30'12 minimum elong 14568 Jan 16 21:01 9°≈45'59 6°28'53 min. Earth dist. 14574 Jul 31 09:21 19°≈52'07 34.59700 AU morning rise 14568 Jul 18 22:34 10°≈62'56 7°01'51 max. Earth dist. 14575 Jan 26 11:55 20°≈42'05 36.44770 AU min. Earth dist. 14568 Jul 18 22:34 10°≈62'56 7°01'51 max. Earth dist. 14575 Jan 28 11:16 20°≈42'05 20°≈42'05 36.44770 AU min. Earth dist. 14569 Jan 13 10'21 19°≈53'15 10'≈23'52 minimum elong 14568 Jul 18 22:34 10°≈25'57 701'51 max. Earth dist. 14575 Jan 28 11:16 20°≈42'05 20°≈42'05 36.44770 AU min. Earth dist. 14569 Jan 13 10'21 19°≈53'54 20°≈42'05 36.44770 AU min. Earth dist. 14569 Jan 13 10'21 10'≈23'52 minimum elong 14575 Jan 28 11:16 20°≈46'39 9°10'33 20°≈41'05 20°≈46'38 9°11'17 max. Earth dist. 14575 Jan 28 11:16 20°≈46'38 9°11'17 minimum elong 14569 Jan 17 17:50 10°≈49'24 6°51'21 opposition 14575 Aug 02 07:59 21°≈30'54	3					
retrograde   14567 Apr   28   21:27   9°&40'15   evening set   14574 Jan   13   09:48   18°&38'29   36.69797 AU   min. Earth dist.   14567 Jul   18   03:37   8°&29'24   6°37'05   max. Earth dist.   14574 Jan   24   00:47   18°&58'22   36.69797 AU   min. Earth dist.   14567 Jul   20   06:47   8°&26'26   36.37086 AU   conjunction   14574 Jan   26   10:33   19°&02'54   8°47'37   evening set   14568 Jan   02   10:25   8°&49'31   minimum elong   14574 Feb   08   11:05   19°&20'53   8°48'23   max. Earth dist.   14568 Jan   14   12:59   9°&10'58   38.23117 AU   morning rise   14574 Feb   08   11:05   19°&20'53   8°48'23   ertograde   14574 May   10   16:54   21°&08'54   ertograde   14574 May   10   16:54   21°&08'54   ertograde   14574 Jul   29   05:07   19°&55'18   9°30'12   minimum elong   14568 Jan   16   21:01   9°&15'09   6°28'53   min. Earth dist.   14574 Jul   29   05:07   19°&55'18   9°30'12   minimum elong   14568 Jan   18   21:01   9°&40'52   direct   14574 Oct   17   02:14   18°&40'57   retrograde   14568 Jul   21   01:21   9°&59'59   36.11447 AU   direct   14575 Jan   28   11:16   20°&46'39   9°10'33   evening set   14569 Jan   13   10.821   10°&40'25   40°51'21   morning rise   14575 May   12   18:52   22°&35'54   evening set   14569 Jan   17   17:50   10°&49'24   6°51'21   opposition   14575 May   12   18:52   22°&35'54   evening minimum elong   14569 Jan   17   17:40   10°&49'23   6°52'12   min. Earth dist.   14575 May   12   18:52   22°&35'54   evening minimum elong   14569 Jan   17   17:40   10°&49'23   6°52'12   min. Earth dist.   14575 May   12   18:52   22°&35'54   evening minimum elong   14569 Jan   17   17:40   10°&49'23   6°52'12   min. Earth dist.   14575 May   12   18:52   22°&35'54   evening minimum elong   14569 Jan   17   17:40   10°&49'23   6°52'12   min. Earth dist.   14575 May   12   18:52   22°&35'54   evening minimum elong   14569 Jan   17   17:40   10°&49'23   6°52'12   min. Earth dist.   14575 May   12   10:30   20°&25'09   9°54'35   minimum elong   14569 Jan   17   17:40   10°&40'24	_					
opposition min. Earth dist.         14567 Jul 18 03:37 below min. Earth dist.         8°≈29'24 6°37'05 below max. Earth dist.         14574 Jan 24 00:47 below max. Earth dist.         18°≈58'22 36.69797 AU below max. Earth dist.         14567 Jul 20 06:47 below max. Earth dist.         14567 Jul 20 06:47 below max. Earth dist.         8°≈26'26 36.37086 AU below minimum elong minimum elong minimum elong minimum elong minimum elong max. Earth dist.         14567 Jul 18°≈62'54 below minimum elong minimum elong minimum elong minimum elong max. Earth dist.         14568 Jan 14 12:59 below minimum elong minimum elong max. Earth dist.         14574 Feb 08 11:05 below 10:21 below 21°×21° below 21°×21	U					
min. Earth dist. 14567 Jul 20 06:47 8°≈26'26 36.37086 AU direct 14567 Oct 06 11:47 7°≈18'04 conjunction 14574 Jan 26 10:33 19°≈02'54 8°47'37 evening set 14568 Jan 02 10:25 8°≈49'31 minimum elong 14574 Jan 26 10:21 19°≈02'53 8°48'23 max. Earth dist. 14568 Jan 14 12:59 9°≈10'58 38.23117 AU morning rise 14574 Hay 10 16:54 21°≈08'54 conjunction 14568 Jan 16 21:11 9°≈15'10 6°28'00 opposition 14574 Jul 29 05:07 19°≈55'18 9°30'12 minimum elong 14568 Jan 16 21:01 9°≈15'09 6°28'53 min. Earth dist. 14574 Oct 17 02:14 18°≈40'57 retrograde 14568 Apr 29 17:31 11°≈14'11 cevening set 14568 Jul 21 01:21 9°≈59'59 36.11447 AU direct 14568 Jul 21 01:21 9°≈59'59 36.11447 AU direct 14568 Oct 07 06:47 8°≈51'10 9°≈45'04 37.97297 AU morning rise 14569 Jan 15 17:40 10°≈45'04 37.97297 AU morning rise 14569 Jan 17 17:50 10°≈45'04 37.97297 AU morning rise 14569 Jan 17 17:40 10°≈49'23 6°52'12 min. Earth dist. 14575 Aug 02 07:59 21°≈36'46 34.34949 AU morning rise 14569 Feb 01 00:02 11°≈14'58 Unicated 14569 Feb 01 00:02 11°≈14'58 Unic	-	=		_		
direct         14567 Oct         06 11:47         7°≈18'04 conjunction         14574 Jan         26 10:33         19°≈02'54         8°47'37           evening set         14568 Jan         02 10:25         8°≈49'31         minimum elong         14574 Jan         26 10:21         19°≈02'53         8°48'23           max. Earth dist.         14568 Jan         14 12:59         9°≈10'58         38.23117 AU         morning rise         14574 Feb         08 11:05         19°≈27'20         19°≈27'20           conjunction         14568 Jan         16 21:11         9°≈15'10         6°28'00         opposition         14574 Jul         29 05:07         19°≈55'18         9°30'12           minimum elong         14568 Jan         16 21:01         9°≈15'09         6°28'03         min. Earth dist.         14574 Jul         31 09:21         19°≈55'18         9°30'12           morning rise         14568 Jan         16 21:01         9°≈15'09         6°28'03         min. Earth dist.         14574 Jul         31 09:21         19°≈52'07         34.59700 AU           morning rise         14568 Jan         18 22:34         10°≈02'56         7°01'51         max. Earth dist.         14575 Jan         26 01:55         20°≈42'03         36.44770 AU           direct         14568 Jul         1	* *				143/4 Jan 24 00.4/	10 ~3022 30.07777 AU
evening set   14568 Jan   02   10:25   8°\$\alpha 49'31   minimum elong   14574 Jan   26   10:21   19°\$\alpha 25'33   8°48'23   max. Earth dist.   14568 Jan   14   12:59   9°\$\alpha 10'58   38.23117 AU   morning rise   14574 Feb   08   11:05   19°\$\alpha 27'20   12°\$\alpha 89'30'12   retrograde   14574 May   10   16:54   21°\$\alpha 89'30'12   minimum elong   14568 Jan   16   21:11   9°\$\alpha 15'10   6°28'00   opposition   14574 Jul   29   05:07   19°\$\alpha 55'18   9°30'12   minimum elong   14568 Jan   16   21:01   9°\$\alpha 15'10   6°28'00   opposition   14574 Jul   31   09:21   19°\$\alpha 52'07   34.59700 AU   morning rise   14568 Jan   31   08:06   9°\$\alpha 40'52   direct   14574 Oct   17   02:14   18°\$\alpha 40'57   retrograde   14568 Apr   29   17:31   11°\$\alpha 11'1   evening set   14575 Jan   15   17:40   20°\$\alpha 22'33   opposition   14568 Jul   18   22:34   10°\$\alpha 02'55   7°01'51   max. Earth dist.   14575 Jan   26   01:55   20°\$\alpha 42'05   36.44770 AU   minimum elong   14568 Oct   07   06:47   8°\$\alpha 51'10   conjunction   14575 Jan   28   11:16   20°\$\alpha 46'39   9°10'33   evening set   14569 Jan   15   08:21   10°\$\alpha 52'52   minimum elong   14575 Feb   10   04:35   21°\$\alpha 10'\$\alpha 11'17   max. Earth dist.   14575 Feb   10   04:35   21°\$\alpha 10'\$\alpha 11'17   10'\$\alpha 49'24   6°51'21   opposition   14575 Jul   31   04:20   21°\$\alpha 39'55   9°54'35   minimum elong   14569 Jan   17   17:40   10°\$\alpha 49'23   6°52'12   min. Earth dist.   14575 Aug   02   07:59   21°\$\alpha 36'46   34.34949 AU   morning rise   14569 Feb   01   00:02   11°\$\alpha 11'85   10'\$\alpha 49'24   direct   14575 Oct   19   01:30   20°\$\alpha 25'09   11'30   10'\$\alpha 25'09   11'30   10'\$\alpha 25'09   11'30   10'\$\alpha 15'09   11'30   10'\$\alpha 25'09   11'30   10'\$\alpha 15'09   11					14574 Ian 26 10:33	1000002154 8047137
max. Earth dist.				·		
retrograde 14574 May 10 16:54 21°≈08′54 conjunction 14568 Jan 16 21:11 9°≈15′10 6°28′00 opposition 14574 Jul 29 05:07 19°≈55′18 9°30′12 minimum elong 14568 Jan 16 21:01 9°≈15′09 6°28′53 min. Earth dist. 14574 Jul 31 09:21 19°≈52′07 34.59700 AU morning rise 14568 Apr 29 17:31 11°≈14′11 evening set 14575 Jan 15 17:40 20°≈22′33 copposition 14568 Jul 21 01:21 9°≈59′59 36.11447 AU direct 14575 Jan 26 01:55 20°≈42′05 36.44770 AU min. Earth dist. 14569 Jan 15 10°≈11′11 10°≈23′52 minimum elong 14569 Jan 15 17:40 20°≈22′33 conjunction 14569 Jan 17 17:50 10°≈49′24 6°51′21 opposition 14575 Jul 31 04:20 21°≈39′55 21°≈36′46 34.34949 AU morning rise 14569 Feb 01 00:02 11°≈14′58 II°≈14′15 direct 14575 Oct 19 01:30 20°≈25′09 I°33 20°≈25′09 I°33 20°≈25′09 I°33 20°≈45′04 34.34949 AU morning rise 14569 Feb 01 00:02 11°≈14′58 II°≈14′55 II°≈14′	•			- C		
conjunction         14568 Jan         16 21:11         9°≈15'10         6°28'00         opposition         14574 Jul         29 05:07         19°≈55'18         9°30'12           minimum elong         14568 Jan         16 21:01         9°≈15'09         6°28'53         min. Earth dist.         14574 Jul         31 09:21         19°≈52'07         34.59700 AU           morning rise         14568 Jan         31 08:06         9°≈40'52         direct         14574 Jul         31 09:21         19°≈52'07         34.59700 AU           retrograde         14568 Jan         14568 Jan         11°≈14'11         evening set         14575 Jan         15 17:40         20°≈22'33         09°≈40'52         opposition         max. Earth dist.         14575 Jan         26 01:55         20°≈42'05         36.44770 AU           min. Earth dist.         14568 Jul         21 01:21         9°≈59'59         36.11447 AU         opposition         14575 Jan         28 11:16         20°≈46'39         9°10'33           evening set         14569 Jan         03 11:51         10°≈23'52         minimum elong         14575 Jan         28 11:05         20°≈46'39         9°11'17           max. Earth dist.         14569 Jan         15 08:21         10°≈45'04         37.97297 AU         morning rise         14575 May 12	max. Earth dist.	14506 Jan 14 12.59	9 ≈10 36 36.23117 AC	=		
minimum elong	agniumation	14560 Ion 16 21.11	090015!10 6929!00	•	•	
morning rise 14568 Jan 31 08:06 9°≈40′52 direct 14574 Oct 17 02:14 18°≈40′57 retrograde 14568 Apr 29 17:31 11°≈14′11 evening set 14575 Jan 15 17:40 20°≈22′33 opposition 14568 Jul 18 22:34 10°≈02′56 7°01′51 max. Earth dist. 14575 Jan 26 01:55 20°≈42′05 36.44770 AU min. Earth dist. 14568 Jul 21 01:21 9°≈59′59 36.11447 AU direct 14568 Oct 07 06:47 8°≈51′10 conjunction 14575 Jan 28 11:16 20°≈46′39 9°10′33 evening set 14569 Jan 03 11:51 10°≈23′52 minimum elong 14575 Jan 28 11:05 20°≈46′38 9°11′17 max. Earth dist. 14569 Jan 15 08:21 10°≈45′04 37.97297 AU morning rise 14575 May 12 18:52 22°≈53′54 conjunction 14569 Jan 17 17:50 10°≈49′24 6°51′21 opposition 14575 Jul 31 04:20 21°≈39′55 9°54′35 minimum elong 14569 Jan 17 17:40 10°≈49′23 6°52′12 min. Earth dist. 14575 Aug 02 07:59 21°≈36′46 34.34949 AU morning rise 14569 Feb 01 00:02 11°≈14′58 direct 14575 Oct 19 01:30 20°≈25′09	•			**		
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min. Earth dist. 14568 Jul 21 01:21 9°≈59'59 36.11447 AU direct 14568 Oct 07 06:47 8°≈51'10 conjunction 14575 Jan 28 11:16 20°≈46'39 9°10'33 evening set 14569 Jan 03 11:51 10°≈23'52 minimum elong 14575 Jan 28 11:05 20°≈46'38 9°11'17 max. Earth dist. 14569 Jan 15 08:21 10°≈45'04 37.97297 AU morning rise 14575 Feb 10 04:35 21°≈10'45 retrograde 14575 May 12 18:52 22°≈53'54 conjunction 14569 Jan 17 17:50 10°≈49'24 6°51'21 opposition 14575 Jul 31 04:20 21°≈39'55 9°54'35 minimum elong 14569 Jan 17 17:40 10°≈49'23 6°52'12 min. Earth dist. 14575 Aug 02 07:59 21°≈36'46 34.34949 AU morning rise 14569 Feb 01 00:02 11°≈14'58 direct 14575 Oct 19 01:30 20°≈25'09		*		•		
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evening set 14569 Jan 03 11:51 10°≈23′52 minimum elong 14575 Jan 28 11:05 20°≈46′38 9°11′17 max. Earth dist. 14569 Jan 15 08:21 10°≈45′04 37.97297 AU morning rise 14575 Feb 10 04:35 21°≈10′45 retrograde 14575 May 12 18:52 22°≈53′54 conjunction 14569 Jan 17 17:50 10°≈49′24 6°51′21 opposition 14575 Jul 31 04:20 21°≈39′55 9°54′35 minimum elong 14569 Jan 17 17:40 10°≈49′23 6°52′12 min. Earth dist. 14575 Aug 02 07:59 21°≈36′46 34.34949 AU morning rise 14569 Feb 01 00:02 11°≈14′58 direct 14575 Oct 19 01:30 20°≈25′09					14575 1 20 11 16	20046/20 0010/22
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conjunction       14569 Jan       17 17:50       10°≈49'24       6°51'21       opposition       14575 Jul       31 04:20       21°≈39'55       9°54'35         minimum elong       14569 Jan       17 17:40       10°≈49'23       6°52'12       min. Earth dist.       14575 Aug 02 07:59       21°≈36'46       34.34949 AU         morning rise       14569 Feb 01 00:02       11°≈14'58       direct       14575 Oct 19 01:30       20°≈25'09	max. Earth dist.	14569 Jan 15 08:21	10°≈45'04 37.97297 AU	Č		
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morning rise 14569 Feb 01 00:02 11°≈14′58 direct 14575 Oct 19 01:30 20°≈25′09						
	_				•	
retrograde 14569 May 01 13:52 12°≈49'30 evening set 14576 Jan 18 02:48 22°≈08'29	-					
	retrograde	14569 May 01 13:52	12°≈49'30	evening set	145/6 Jan 18 02:48	22°≈08′29

max. Earth dist.	14576 Jan 28 01:58	22° <b>≈</b> 27'30	36.19819 AU	conjunction minimum elong	14582 Feb 10 13:12 14582 Feb 10 12:57	3° <b>)</b> 43'14 3° <b>)</b> 43'13	11°44'09 11°44'42
conjunction	14576 Jan 30 12:47	22° <b>≈</b> 32'13	9°33'19	morning rise	14582 Feb 20 14:26	4° <b>)</b> €03'36	
minimum elong	14576 Jan 30 12:33	22° <b>≈</b> 32'12	9°34'02	retrograde	14582 May 26 07:12	5° <b>¥</b> 59'39	
morning rise	14576 Feb 11 22:32	22° <b>≈</b> 55'56		opposition	14582 Aug 12 20:31	4° <b>)</b> 42'40	12°37'52
retrograde	14576 May 13 21:38	24° <b>≈</b> 40'45		min. Earth dist.	14582 Aug 15 00:43	4° <b>)</b> 39′18	32.64892 AU
opposition	14576 Aug 01 04:34	23° <b>≈</b> 26′23	10°18'47	direct	14582 Oct 31 07:28	3° <b>)</b> 24'34	
min. Earth dist.	14576 Aug 03 09:34	23° <b>≈</b> 23′07	34.10266 AU	evening set	14583 Feb 03 05:25	5° <b>)</b> €21'48	
direct	14576 Oct 19 22:41	22° <b>≈</b> 11'11		max. Earth dist.	14583 Feb 10 08:52	5° <b>¥</b> 36′22	34.48665 AU
evening set	14577 Jan 19 13:03	23° <b>≈</b> 56′18					
max. Earth dist.	14577 Jan 29 04:57	24° <b>≈</b> 14'54	35.94921 AU	conjunction	14583 Feb 12 19:55	5° <b>)</b> 41′25	12°04'32
				minimum elong	14583 Feb 12 19:42	5° <b>)</b> 41′24	12°05'03
conjunction	14577 Jan 31 15:02	24°≈19'36	9°55'52	morning rise	14583 Feb 22 09:55	6° <b>∺</b> 01'00	
minimum elong	14577 Jan 31 14:50	24°≈19'35	9°56'34	retrograde	14583 May 28 14:39	7° <b>¥</b> 59'11	12050120
morning rise	14577 Feb 12 16:31	24°≈42'53 26°≈29'25		opposition min. Earth dist.	14583 Aug 15 01:47 14583 Aug 17 06:36	6° <b>)</b> 41'46	12°59'29 32.41699 AU
retrograde opposition	14577 May 15 23:52 14577 Aug 03 05:25	26 ≈29 23 25°≈14'39	10°42'47	direct	14583 Nov 02 10:13	5°\(\frac{1}{23}\)'13	32.41099 AU
min. Earth dist.	14577 Aug 05 09:48		33.85635 AU	evening set	14584 Feb 06 00:57	7° <b>∺</b> 22'45	
direct	14577 Oct 21 22:17	23°≈58'59	33.63033 AC	max. Earth dist.	14584 Feb 12 18:00		34.25437 AU
evening set	14578 Jan 22 00:39	25°≈45'56		max. Dartii dist.	11301100 12 10.00	7 7(3031	31.23137110
max. Earth dist.	14578 Jan 31 06:28		35.70087 AU	conjunction	14584 Feb 15 03:31	7° <b>)</b> 41'32	12°24'19
				minimum elong	14584 Feb 15 03:17	7° <b>)</b> 41'30	12°24'48
conjunction	14578 Feb 02 17:57	26° <b>≈</b> 08'46	10°18'12	morning rise	14584 Feb 24 05:25	8° <b>₩</b> 00'17	
minimum elong	14578 Feb 02 17:43	26° <b>≈</b> 08'44	10°18'52	retrograde	14584 May 29 22:13	10° <b>)</b> € 00'40	
morning rise	14578 Feb 14 10:59	26° <b>≈</b> 31'35		opposition	14584 Aug 16 07:50	8° <b>)</b> 42′51	13°20'27
retrograde	14578 May 18 04:29	28° <b>≈</b> 19'54		min. Earth dist.	14584 Aug 18 11:05		32.18982 AU
opposition	14578 Aug 05 07:00	27° <b>≈</b> 04'41	11°06'31	direct	14584 Nov 03 15:39	7° <b>∺</b> 23'51	
min. Earth dist.	14578 Aug 07 12:12		33.61097 AU	evening set	14585 Feb 07 21:45	9° <b>∺</b> 25'47	
direct	14578 Oct 23 20:47	25° <b>≈</b> 48'33		max. Earth dist.	14585 Feb 14 01:44	9° <b>∺</b> 38'37	34.02711 AU
evening set	14579 Jan 24 13:20	27°≈37'24	25 45245 444		14505 F. L. 16 11 20	001/ 42/20	10042120
max. Earth dist.	14579 Feb 02 10:48	2/°≈54′51	35.45347 AU	conjunction	14585 Feb 16 11:39	9° <b>¥</b> 43'39 9° <b>¥</b> 43'38	12°43'28 12°43'56
conjunction	14579 Feb 04 21:45	27°≈59'42	10°40'14	minimum elong morning rise	14585 Feb 16 11:27 14585 Feb 25 01:07	9° <b>X</b> 43′38 10° <b>¥</b> 01′30	12-43-36
minimum elong	14579 Feb 04 21:32	27 ≈5942 27°≈59'41	10°40'53	retrograde	14585 Jun 01 07:47	10 <b>X</b> 01 30	
morning rise	14579 Feb 16 05:33	27 ≈3941 28°≈22'00	10 40 33	opposition	14585 Aug 18 14:46	10°\delta 46'00	13°40'43
morning rise	14579 Apr 21 19:53	0° <b>₩</b>		min. Earth dist.	14585 Aug 20 18:01		31.96790 AU
retrograde	14579 May 20 08:54	0° <b>)</b> 12'08		direct	14585 Nov 05 18:33	9° <b>¥</b> 26'35	31.90,90110
	14579 Jun 18 07:57	30°R <b>≈</b>		evening set	14586 Feb 10 20:10	11° <b>)</b> € 31'01	
opposition	14579 Aug 07 09:21	28° <b>≈</b> 56'30	11°29'58	max. Earth dist.	14586 Feb 16 12:46	11° <b>)</b> 42′57	33.80518 AU
min. Earth dist.	14579 Aug 09 14:36	28° <b>≈</b> 53′09	33.36675 AU				
direct	14579 Oct 25 22:02	27° <b>≈</b> 39'52		conjunction	14586 Feb 18 20:54	11° <b>)</b> 47′53	13°01'54
evening set	14580 Jan 27 03:32	29° <b>≈</b> 30'41		minimum elong	14586 Feb 18 20:41	11° <b>)</b> 47′52	13°02'20
max. Earth dist.	14580 Feb 04 14:37	29° <b>≈</b> 47'28	35.20767 AU	morning rise	14586 Feb 26 20:59	12° <b>)</b> €04'44	
				retrograde	14586 Jun 03 17:22	14° <b>米</b> 09′51	
conjunction	14580 Feb 07 02:11	29°≈52'25	11°01'57	opposition	14586 Aug 20 22:26	12° <b>米</b> 51'17	14°00'13
minimum elong	14580 Feb 07 01:57	29°≈52'24	11°02'33	min. Earth dist.	14586 Aug 23 00:42		31.75116 AU
marning rise	14580 Feb 10 21:25	0° <b>\</b> 0° <b>\</b> 14'08		direct	14586 Nov 07 23:51	11° <b>∺</b> 31'28 13° <b>∺</b> 38'30	
morning rise retrograde	14580 Feb 18 00:25 14580 May 21 16:01	2°\(\)\(\)\(\)\(\)\(\)\(\)		evening set max. Earth dist.	14587 Feb 13 20:13 14587 Feb 18 22:35		33.58848 AU
opposition	14580 Aug 08 12:13	0° <b>\(\frac{1}{50}\)</b>	11°53'03	max. Lattii dist.	14307100 10 22.33	13 /(4) 10	33.30040 AC
min. Earth dist.	14580 Aug 10 17:13		33.12458 AU	conjunction	14587 Feb 21 06:51	13° <b>¥</b> 54'18	13°19'35
min. Burm dige.	14580 Sep 13 07:03	30°R≈	23.12.20110	minimum elong	14587 Feb 21 06:40	13° <b>)</b> € 54'17	13°19'59
direct	14580 Oct 26 23:24	29° <b>≈</b> 32'57		morning rise	14587 Feb 28 17:04	14° <b>)</b> 10′05	
	14580 Dec 08 20:49	0° <b>∀</b>		retrograde	14587 Jun 06 05:47	16° <b>∺</b> 17'40	
evening set	14581 Jan 28 18:50	1° <b>)</b> 25′50		opposition	14587 Aug 23 06:57	14° <b>)</b> ₹58'46	14°18'53
max. Earth dist.	14581 Feb 05 19:56	1° <b>¥</b> 41'56	34.96400 AU	min. Earth dist.	14587 Aug 25 08:47	14° <b>¥</b> 55′28	31.53945 AU
				direct	14587 Nov 10 06:15	13° <b>)</b> ₹38'33	
conjunction	14581 Feb 08 07:26	1° <b>¥</b> 46′55	11°23'16	evening set	14588 Feb 16 21:58	15° <b>¥</b> 48'16	
minimum elong	14581 Feb 08 07:13	1° <b>¥</b> 46'54	11°23'52	max. Earth dist.	14588 Feb 21 10:37	15° <b>¥</b> 57'57	33.37642 AU
morning rise	14581 Feb 18 19:28	2° <b>∺</b> 07'59					
retrograde	14581 May 23 22:26	4° <b>米</b> 01′59	10015::-	conjunction	14588 Feb 23 17:54	16° <b>¥</b> 02'54	13°36'27
opposition	14581 Aug 10 16:05	2° <b>)</b> 45'27	12°15'42	minimum elong	14588 Feb 23 17:42	16° <b>¥</b> 02'53	13°36'48
min. Earth dist.	14581 Aug 12 21:30		32.88500 AU	morning rise	14588 Mar 01 13:15	16° <b>¥</b> 17'30	
direct evening set	14581 Oct 29 02:40 14582 Jan 31 11:25	1° <b>)</b> 27′50 3° <b>)</b> 22′51		retrograde opposition	14588 Jun 07 17:29 14588 Aug 24 16:21	18° <b>¥</b> 27'40 17° <b>¥</b> 08'25	14°36'40
max. Earth dist.	14582 Jan 31 11:25 14582 Feb 08 02:33		34.72349 AU	min. Earth dist.	14588 Aug 24 16:21 14588 Aug 26 18:11		31.33217 AU
man. Darui uist.	17302 100 00 02.33	2 N 20 10	57.12549 AU	direct	14588 Nov 11 14:59	17 <b>X</b> 03 03	J1.JJ21/ AU
					1.0001107 11 14.07	10 /(1/ 40	

evening set	14589 Feb 19 01:40	18° <b>₩</b> 00'18		retrograde	14595 Jun 25 02:55	4° <b>Υ</b> 31'41	
max. Earth dist.	14589 Feb 22 22:45	18° <b>)</b> 08'41	33.16903 AU	opposition	14595 Sep 10 08:09	3° <b>Y</b> ′09'55	16°10'26
				min. Earth dist.	14595 Sep 12 03:41	3° <b>Y</b> ′06'53	30.02843 AU
conjunction	14589 Feb 25 05:39	18° <b>∺</b> 13'39	13°52'26	direct	14595 Nov 28 00:58	1° <b>Y</b> 46'30	
minimum elong	14589 Feb 25 05:29	18° <b>)</b> 13′38	13°52'45	max. Earth dist.	14596 Mar 11 13:30	4° <b>Υ</b> 17'03	31.87390 AU
morning rise	14589 Mar 03 09:15	18° <b>¥</b> 26'57					
retrograde	14589 Jun 10 07:48	20° <b>)</b> 39'47		conjunction	14596 Mar 13 13:21	4° <b>Y</b> 21'36	15°14'19
opposition	14589 Aug 27 02:34	19° <b>)</b> 20′10	14°53'30	minimum elong	14596 Mar 13 13:18	4° <b>Y</b> 21'36	15°14'21
min. Earth dist.	14589 Aug 29 03:09	19° <b>)</b> 16′55	31.12943 AU	retrograde	14596 Jun 26 19:51	6° <b>Y</b> 56'04	
direct	14589 Nov 14 00:35	17° <b>¥</b> 59′09		opposition	14596 Sep 11 23:31	5° <b>Y</b> 33'59	16°18'26
evening set	14590 Feb 22 07:04	20° <b>)</b> 14′32		min. Earth dist.	14596 Sep 13 17:28	5° <b>Y</b> 31'04	29.87088 AU
max. Earth dist.	14590 Feb 25 11:38	20° <b>)</b> €21'30	32.96611 AU	direct	14596 Nov 29 15:12	4° <b>Υ</b> 10'14	
				max. Earth dist.	14597 Mar 14 09:45	6° <b>Y</b> 42'09	31.71973 AU
conjunction	14590 Feb 27 18:12	20° <b>)</b> €26′27	14°07'30				
minimum elong	14590 Feb 27 18:02	20° <b>)</b> €26′26	14°07'46	conjunction	14597 Mar 16 06:54	6° <b>Y</b> 46′29	15°20'47
morning rise	14590 Mar 05 04:55	20° <b>)</b> 38′21		minimum elong	14597 Mar 16 06:55	6° <b>Y</b> 46'29	15°20'46
retrograde	14590 Jun 12 21:39	22° <b>)</b> 53′55		retrograde	14597 Jun 29 12:12	9° <b>Y</b> 21'57	
opposition	14590 Aug 29 13:46	21° <b>)</b> 33′57	15°09'20	opposition	14597 Sep 14 15:41	7° <b>Y</b> 59'36	16°24'49
min. Earth dist.	14590 Aug 31 14:43	21° <b>)</b> 30′39	30.93120 AU	min. Earth dist.	14597 Sep 16 08:17	7° <b>Y</b> 56'45	29.72262 AU
direct	14590 Nov 16 10:22	20° <b>)</b> 12′32		direct	14597 Dec 02 06:16	6° <b>Y</b> 35'33	
evening set	14591 Feb 25 15:10	22° <b>)</b> € 30′55		max. Earth dist.	14598 Mar 17 05:03	9° <b>Y</b> 08'40	31.57552 AU
max. Earth dist.	14591 Feb 28 02:25	22° <b>)</b> 36′21	32.76816 AU				
				conjunction	14598 Mar 19 00:50	9° <b>Y</b> 12'53	15°25'43
conjunction	14591 Mar 02 07:42	22° <b>)</b> 41′15	14°21'34	minimum elong	14598 Mar 19 00:51	9° <b>Y</b> 12'53	15°25'40
minimum elong	14591 Mar 02 07:35	22° <b>)</b> 41′14	14°21'48	retrograde	14598 Jul 02 07:39	11° <b>Y</b> 49'19	
morning rise	14591 Mar 06 23:55	22° <b>米</b> 51′33		opposition	14598 Sep 17 08:22	10° <b>Y</b> ′26′44	16°29'32
retrograde	14591 Jun 15 13:48	25° <b>∺</b> 09'59		min. Earth dist.	14598 Sep 18 22:34	10° <b>Y</b> ′24′03	29.58408 AU
opposition	14591 Sep 01 01:26	23° <b>)</b> 49′39	15°24'04	direct	14598 Dec 04 22:07	9° <b>Y</b> ′02'26	
min. Earth dist.	14591 Sep 03 00:48	23° <b>)</b> 46′26	30.73798 AU	max. Earth dist.	14599 Mar 20 02:02	11° <b>Y</b> 36'47	31.44104 AU
direct	14591 Nov 18 23:08	22° <b>)</b> €27'49					
evening set	14592 Feb 29 02:01	24° <b>) (</b> 49′25		conjunction	14599 Mar 21 19:37	11° <b>Y</b> 40'49	15°29'04
max. Earth dist.	14592 Mar 01 16:32	24° <b>)</b> 52′59	32.57550 AU	minimum elong	14599 Mar 21 19:42	11° <b>Y</b> 40'49	15°28'58
				retrograde	14599 Jul 05 01:29	14° <b>Y</b> 18'08	
conjunction	14592 Mar 03 21:55	24° <b>)</b> 57′55	14°34'34	opposition	14599 Sep 20 01:40	12° <b>Y</b> 55'22	16°32'31
minimum elong	14592 Mar 03 21:47	24° <b>)</b> 57′54	14°34'46	min. Earth dist.	14599 Sep 21 15:07	12° <b>Y</b> ′52'44	29.45495 AU
morning rise	14592 Mar 07 17:31	25° <b>)</b> €06′23		direct	14599 Dec 07 14:50	11° <b>Y</b> ′30'52	
retrograde	14592 Jun 17 04:11	27° <b>)</b> €27'54		max. Earth dist.	14600 Mar 22 23:13	14° <b>Y</b> ′06′21	31.31627 AU
opposition	14592 Sep 02 14:07	26° <b>)</b> €07'11	15°37'39				
min. Earth dist.	14592 Sep 04 13:44	26° <b>米</b> 03′56	30.55034 AU	conjunction	14600 Mar 24 14:53	14° <b>Y</b> 10′13	15°30'48
direct	14592 Nov 20 09:52	24° <b>) (</b> 44′57		minimum elong	14600 Mar 24 14:58	14° <b>Ƴ</b> 10'14	15°30'40
evening set	14593 Mar 03 17:34	27° <b>¥</b> 10′06		retrograde	14600 Jul 07 22:04	16° <b>Ƴ</b> 48'22	
max. Earth dist.	14593 Mar 04 09:29	27° <b>∺</b> 11'35	32.38898 AU	opposition	14600 Sep 22 19:34	15° <b>Y</b> 25′26	
				min. Earth dist.	14600 Sep 24 06:27		29.33504 AU
conjunction	14593 Mar 06 12:45	27° <b>¥</b> 16′22	14°46'26	direct	14600 Dec 10 09:56	14° <b>Y</b> ′00'45	
minimum elong	14593 Mar 06 12:40	27° <b>¥</b> 16′21	14°46'35	max. Earth dist.	14601 Mar 25 20:32	16° <b>Ƴ</b> 37'16	31.20068 AU
morning rise	14593 Mar 09 07:44	27° <b>¥</b> 22'37					
retrograde	14593 Jun 19 19:12	29° <b>)</b> 47′32		conjunction	14601 Mar 27 10:34	16° <b>Y</b> 41′00	15°30'54
opposition	14593 Sep 05 03:26	28° <b>¥</b> 26′27		minimum elong	14601 Mar 27 10:41	16° <b>Y</b> 41′00	15°30'42
min. Earth dist.	14593 Sep 07 01:11		30.36896 AU	retrograde	14601 Jul 10 17:26	19° <b>Y</b> 19'54	
direct	14593 Nov 22 23:32	27° <b>)</b> €03'49		opposition	14601 Sep 25 14:10	17° <b>Y</b> ′56'49	16°33'12
evening set	14594 Mar 07 21:17	29° <b>)</b> 33′36		min. Earth dist.	14601 Sep 27 00:29		29.22404 AU
max. Earth dist.	14594 Mar 07 01:05	29° <b>∺</b> 31'42	32.20931 AU	direct	14601 Dec 13 03:19	16° <b>Ƴ</b> 31'57	
		*****					
conjunction	14594 Mar 09 04:15	29° <b>)</b> (36'31	14°57'03				
minimum elong	14594 Mar 09 04:09	29° <b>)</b> (36′30	14°57'11				
morning rise	14594 Mar 10 11:02	29° <b>)</b> (39′24					
_	14594 Mar 19 15:15	0°Υ ••••••••••					
retrograde	14594 Jun 22 11:57	2°Υ08'49	1 (000)				
opposition	14594 Sep 07 17:24	0° <b>Υ</b> 47'23	16°00'55				
min. Earth dist.	14594 Sep 09 14:35		30.19480 AU				
T.	14594 Oct 08 03:47	30° <b>₹</b> ₩					
direct	14594 Nov 25 11:04	29° <b>)</b> (24′20					
n a v	14595 Jan 11 11:15	0°Υ 1° <b>W</b> 53141	22.02724.433				
max. Earth dist.	14595 Mar 09 20:01	1-1-53'41	32.03734 AU				
	1450534 11 20 27	10005045	15007122				
conjunction	14595 Mar 11 20:35	100050116	15°06'23				

minimum elong 14595 Mar 11 20:32 1°**Υ**'58'16 15°06'27