•,•	(100 t 10 17 00	220500111 12055100		(10(1 1 10 01 41	20061502 1201652
opposition	6100 Jan 12 17:23	23°509'11 -13°55'09	conjunction	6106 Jul 18 01:41	29°515'22 -12°16'52
min. Earth dist.	6100 Jan 12 09:26	23°509'33 48.16816 AU	minimum elong	6106 Jul 18 01:52	29°S15'22 12°16'54
direct	6100 Apr 04 12:50	22° © 10'49	max. Earth dist.	6106 Jul 18 02:21	29° © 15'24 49.73631 AU
evening set	6100 Jul 04 10:28	23° © 26'10	morning rise	6106 Jul 27 06:08	29° © 27'49
				6106 Aug 21 11:27	0° Ω
conjunction	6100 Jul 11 19:10	23°936'07 -13°17'32	retrograde	6106 Oct 28 12:45	0° Ω 44'04
minimum elong	6100 Jul 11 19:22	23°536'08 13°17'34		6107 Jan 06 07:42	30° ℝ ∽
max. Earth dist.	6100 Jul 12 02:15	23°536'31 50.08899 AU	opposition	6107 Jan 19 23:54	29° 5 44'50 -12°41'47
morning rise	6100 Jul 19 04:57	23° © 46'09	min. Earth dist.	6107 Jan 20 00:25	29°5644'49 47.74559 AU
retrograde	6100 Oct 22 06:39	25° © 04'32	direct	6107 Apr 11 16:10	28° © 46'15
opposition	6101 Jan 13 21:39	24°905'24 -13°45'21	evening set	6107 Jul 09 21:10	29° 5 59'19
min. Earth dist.	6101 Jan 13 15:10	24°505'42 48.12046 AU		6107 Jul 10 09:18	$0^{\circ}\Omega$
direct	6101 Apr 05 14:05	23° © 07'01			
evening set	6101 Jul 05 07:45	24° © 22'00	conjunction	6107 Jul 19 06:50	0° Ω 12'04 -12°06'02
Č			minimum elong	6107 Jul 19 07:01	0° Ω 12'05 12°06'03
conjunction	6101 Jul 13 00:09	24°532'24 -13°07'58	max. Earth dist.	6107 Jul 19 05:27	0° Ω 11'59 49.66048 AU
minimum elong	6101 Jul 13 00:20	24°\$32'24 13°08'00	morning rise	6107 Jul 28 17:51	0° Ω 24'53
max. Earth dist.	6101 Jul 13 07:23	24°S32'48 50.04102 AU	retrograde	6107 Oct 29 17:52	1° Ω 40'48
	6101 Jul 20 17:29	24°S42'51	opposition	6108 Jan 21 04:16	0° Ω 41'31 -12°30'27
morning rise			min. Earth dist.		0°Ω41'31 -12 3027 0°Ω41'27 47.66613 AU
retrograde	6101 Oct 23 12:46	26°500'51	min. Earth dist.	6108 Jan 21 05:32	
opposition	6102 Jan 15 01:58	25°501'43 -13°35'18		6108 Mar 02 03:18	30°Rூ
min. Earth dist.	6102 Jan 14 20:17	25°501'59 48.06939 AU	direct	6108 Apr 11 19:20	29°542'50
direct	6102 Apr 06 16:27	24° © 03'21		6108 May 22 02:15	0 $^{\circ}\Omega$
evening set	6102 Jul 06 05:18	25° © 17'59	evening set	6108 Jul 09 20:01	0° Ω 55'38
	(102 1 1 14 04 57	250620147 12050100	. ,.	(100 I I 10 12 05	10 000144 11054150
conjunction	6102 Jul 14 04:57	25°\$28'47 -12°58'09	conjunction	6108 Jul 19 12:05	1°Ω08'44 -11°54'58
minimum elong	6102 Jul 14 05:09	25°528'48 12°58'11	minimum elong	6108 Jul 19 12:16	1° Ω 08'45 11°55'00
max. Earth dist.	6102 Jul 14 10:26	25°\$29'06 49.98958 AU	max. Earth dist.	6108 Jul 19 09:49	1° Ω 08'36 49.58027 AU
morning rise	6102 Jul 22 05:44	25° © 39'39	morning rise	6108 Jul 29 05:29	1° Ω 21'55
retrograde	6102 Oct 24 17:17	26° 9 57'17	retrograde	6108 Oct 29 20:55	2° Ω 37'32
opposition	6103 Jan 16 06:18	25°\$58'10 -13°25'01	opposition	6109 Jan 21 08:40	1° Ω 38'10 -12°18'53
min. Earth dist.	6103 Jan 16 01:18	25°\$58'24 48.01457 AU	min. Earth dist.	6109 Jan 21 11:49	1° Ω 38'01 47.58266 AU
direct	6103 Apr 07 19:46	24° © 59'47	direct	6109 Apr 13 01:07	0° Ω 39'25
evening set	6103 Jul 07 03:11	26°514'06	evening set	6109 Jul 10 19:07	1° Ω 51'57
conjunction	6103 Jul 15 10:06	26° © 25'19 -12°48'08	conjunction	6109 Jul 20 17:20	2° Ω 05'24 -11°43'42
minimum elong	6103 Jul 15 10:17	26°\$25'19 12°48'10	minimum elong	6109 Jul 20 17:31	2° Ω 05'24 11°43'43
max. Earth dist.	6103 Jul 15 14:29	26°\$25'33 49.93384 AU	max. Earth dist.	6109 Jul 20 14:30	2° Ω 05'14 49.49657 AU
morning rise	6103 Jul 23 18:09	26° © 36'35	morning rise	6109 Jul 30 16:49	2° Ω 18'56
retrograde	6103 Oct 25 19:11	27° 9 53'52	retrograde	6109 Oct 31 00:29	3° Ω 34'16
opposition	6104 Jan 17 10:38	26°954'45 -13°14'32	opposition	6110 Jan 22 13:01	2° Ω 34'50 -12°07'04
min. Earth dist.	6104 Jan 17 07:46	26°\$54'53 47.95512 AU	min. Earth dist.	6110 Jan 22 16:00	2° Ω 34'42 47.49588 AU
direct	6104 Apr 08 03:17	25°\$56'20	direct	6110 Apr 14 07:33	1° Ω 36'00
		27° © 10'21		•	
evening set	6104 Jul 07 01:30	27 91021	evening set	6110 Jul 11 18:13	2° Ω 48'17
conjunction	6104 Jul 15 15:21	27° \$ 21'57 -12°37'55	conjunction	6110 Jul 21 22:25	3° Ω 02'05 -11°32'11
minimum elong	6104 Jul 15 15:33	27°\$21'57 12°37'57	minimum elong	6110 Jul 21 22:36	3°Ω02'06 11°32'13
max. Earth dist.	6104 Jul 15 18:45	27°\$22'08 49.87331 AU	max. Earth dist.	6110 Jul 21 17:47	3° Ω 01'50 49.40966 AU
morning rise	6104 Jul 24 06:18	27°S33'37	morning rise	6110 Aug 01 04:09	3° Ω 15'59
Č			•	•	
retrograde	6104 Oct 25 23:50	28°950'34	retrograde	6110 Nov 01 08:07	4° Ω 31'03
opposition	6105 Jan 17 14:59	27°951'25 -13°03'49	opposition	6111 Jan 23 17:36	3° Ω 31'34 -11°55'01
min. Earth dist.	6105 Jan 17 12:30	27°551'32 47.89051 AU	min. Earth dist.	6111 Jan 23 22:07	3° Ω 31'22 47.40615 AU
direct	6105 Apr 09 09:21	26° © 52'58	direct	6111 Apr 15 10:45	2° Ω 32'40
evening set	6105 Jul 07 23:48	28° 5 06'39	evening set	6111 Jul 12 17:37	3° Ω 44'43
agniumation	6105 Jul 16 20:22	200610120 12027120	agnismatica-	6111 Jul 22 02:52	20 0 50 52 11020126
conjunction	6105 Jul 16 20:23	28°518'39 -12°27'29	conjunction	6111 Jul 23 03:53	3° Ω 58'53 -11°20'26
minimum elong	6105 Jul 16 20:34	28°518'39 12°27'31	minimum elong	6111 Jul 23 04:05	3° Ω 58'53 11°20'28
max. Earth dist.	6105 Jul 16 21:26	28°9518'42 49.80740 AU	max. Earth dist.	6111 Jul 22 23:29	3° Ω 58'38 49.31993 AU
morning rise	6105 Jul 25 18:16	28° © 30'43	morning rise	6111 Aug 02 15:27	4° Ω 13'07
retrograde	6105 Oct 27 07:19	29° 5 47'19	retrograde	6111 Nov 02 14:24	5° Ω 27'57
opposition	6106 Jan 18 19:33	28°\$48'08 -12°52'55	opposition	6112 Jan 24 22:00	4° Ω 28'25 -11°42'43
min. Earth dist.	6106 Jan 18 19:04	28°5548'10 47.82061 AU	min. Earth dist.	6112 Jan 25 03:04	4° Ω 28'11 47.31359 AU
direct	6106 Apr 10 12:15	27°5649'37	direct	6112 Apr 15 13:43	3° Ω 29'27
evening set	6106 Jul 08 22:21	29°503'00	evening set	6112 Jul 12 17:18	4° Ω 41'19
-			-		

. ,.	(110 1 1 22 00 14	40.055140 11000107	T	(110.4 20.21.20	100 010150
conjunction	6112 Jul 23 09:14	4° Ω 55'49 -11°08'27	direct	6119 Apr 22 21:20	10°Ω13'52
minimum elong	6112 Jul 23 09:24	4°Ω55'49 11°08'29	evening set	6119 Jul 18 20:28	11°Ω24'49
max. Earth dist.	6112 Jul 23 03:07	4° Ω 55'28 49.22754 A	U max. Earth dist.	6119 Jul 30 11:30	11° Ω 40'46 48.47262 AU
morning rise	6112 Aug 03 02:41	5° Ω 10′24			
retrograde	6112 Nov 02 20:54	6° Ω 25'00	conjunction	6119 Jul 31 01:52	11° Ω 41'36 -9°38'11
opposition	6113 Jan 25 02:35	5° Ω 25'27 -11°30'09	minimum elong	6119 Jul 31 02:03	11° Ω 41'36 9°38'13
min. Earth dist.	6113 Jan 25 08:07	5° Ω 25'11 47.21839 A	2	6119 Aug 12 08:49	11° Ω 58'29
direct	6113 Apr 16 16:18	4° Ω 26′26	retrograde	6119 Nov 10 10:42	13° Ω 11'58
evening set	6113 Jul 13 16:52	5° Ω 38′08	opposition	6120 Feb 01 12:40	$12^{\circ}\Omega 12'02 - 9^{\circ}55'43$
			min. Earth dist.	6120 Feb 02 02:19	12° Ω 11'23 46.43781 AU
conjunction	6113 Jul 24 14:34	5° Ω 52'58 -10°56'14	direct	6120 Apr 23 04:43	11° Ω 12'30
minimum elong	6113 Jul 24 14:46	5° Ω 52'58 10°56'16	evening set	6120 Jul 18 21:49	12° Ω 23′20
max. Earth dist.	6113 Jul 24 07:48	5° Ω 52'34 49.13223 A	U		
morning rise	6113 Aug 04 13:47	6° Ω 07'53	conjunction	6120 Jul 31 07:59	12° Ω 40'25 -9°24'24
retrograde	6113 Nov 03 23:39	7° Ω 22'18	minimum elong	6120 Jul 31 08:10	12° Ω 40'26 9°24'25
opposition	6114 Jan 26 07:21	6° Ω 22'43 -11°17'21	max. Earth dist.	6120 Jul 30 15:31	12° Ω 39'28 48.34602 AU
min. Earth dist.	6114 Jan 26 14:28	6° Ω 22'23 47.12011 A	U morning rise	6120 Aug 12 19:57	12° Ω 57'37
direct	6114 Apr 17 23:17	5° Ω 23'39	retrograde	6120 Nov 10 18:03	14° Ω 10'59
evening set	6114 Jul 14 16:53	6° Ω 35'12	opposition	6121 Feb 01 17:55	13° Ω 10'56 -9°41'19
			min. Earth dist.	6121 Feb 02 09:24	13° Ω 10'12 46.30790 AU
conjunction	6114 Jul 25 20:10	6° Ω 50'22 -10°43'46	direct	6121 Apr 24 09:39	12° Ω 11'16
minimum elong	6114 Jul 25 20:21	6°Ω50'23 10°43'48	evening set	6121 Jul 19 23:02	13° Ω 22'00
max. Earth dist.	6114 Jul 25 12:52	6° Ω 49'57 49.03383 A	-		
morning rise	6114 Aug 06 00:52	7° Ω 05'38	conjunction	6121 Aug 01 14:07	13° Ω 39'24 -9°10'24
retrograde	6114 Nov 05 04:26	8° Ω 19'53	minimum elong	6121 Aug 01 14:17	13°Ω39'24 9°10'26
opposition	6115 Jan 27 11:55	7° Ω 20'17 -11°04'19	max. Earth dist.	6121 Jul 31 21:44	13° Ω 38'27 48.21566 AU
min. Earth dist.	6115 Jan 27 19:13	7°Ω19'56 47.01836 A		6121 Aug 14 06:41	13° Ω 56'53
direct	6115 Apr 19 05:19	6° Ω 21'10	e moming not	6121 Oct 11 23:54	15° Ω
evening set	6115 Jul 15 17:12	7° Ω 32'35	retrograde	6121 Nov 12 01:53	15° Ω 10′09
evening sec	0113 341 13 17.12	7 003233	retrograde	6121 Dec 13 06:43	15°R Ω
conjunction	6115 Jul 27 01:51	7° Ω 48'06 -10°31'05	opposition	6122 Feb 02 23:08	14° Ω 09'59 -9°26'39
minimum elong	6115 Jul 27 02:03	7°Ω48'06 10°31'07	min. Earth dist.	6122 Feb 03 15:09	14°Ω09'13 46.17444 AU
max. Earth dist.	6115 Jul 26 16:22	7°Ω47'33 48.93144 A		6122 Apr 25 13:09	13°Ω10'11
	6115 Aug 07 12:13	8°Ω03'42		6122 Jul 21 00:46	14° Ω 20'51
morning rise	-	9° Ω 17'48	evening set	0122 Jul 21 00.40	14 862031
retrograde	6115 Nov 06 13:09		:	(122 A 02 20-20	1.40 (0.20)22 005(11.0
opposition	6116 Jan 28 16:47	8°Ω18'09 -10°51'02	conjunction	6122 Aug 02 20:20	14°Ω38'32 -8°56'10
min. Earth dist.	6116 Jan 29 02:11	8°Ω17'43 46.91233 A	Č	6122 Aug 02 20:31	14°Ω38'33 8°56'11
direct	6116 Apr 19 07:52	7° Ω 19'00	max. Earth dist.	6122 Aug 02 02:09	14° Ω 37'29 48.08210 AU
evening set	6116 Jul 15 17:41	8° Ω 30'17	morning rise	6122 Aug 15 17:41	14° Ω 56'20
	(11(X1 05 05 10	00.04405 4004040		6122 Aug 18 10:35	15° Ω
conjunction	6116 Jul 27 07:48	8° Ω 46'07 -10°18'10	retrograde	6122 Nov 13 10:46	16° № 09'29
minimum elong	6116 Jul 27 07:59	8° Ω 46'08 10°18'11	opposition	6123 Feb 04 04:21	15° Ω 09'13 -9°11'45
max. Earth dist.	6116 Jul 26 21:51	8° Ω 45'33 48.82435 A	U min. Earth dist.	6123 Feb 04 21:01	15° Ω 08'25 46.03807 AU
morning rise	6116 Aug 07 23:21	9° Ω 02'03		6123 Feb 12 05:12	15°R€
retrograde	6116 Nov 06 19:42	10° Ω 16′00	direct	6123 Apr 26 15:29	14° Ω 09'17
opposition	6117 Jan 28 21:38	9° Ω 16'19 -10°37'33		6123 Jul 07 00:30	15° Ω
min. Earth dist.	6117 Jan 29 07:57	9° Ω 15'49 46.80123 A	· ·	6123 Jul 22 02:35	15° Ω 19'54
direct	6117 Apr 20 12:04	8° Ω 17'05	max. Earth dist.	6123 Aug 03 07:52	15° Ω 36'47 47.94556 AU
evening set	6117 Jul 16 18:31	9° Ω 28'16			_
		_	conjunction	6123 Aug 04 02:48	15° Ω 37'53 -8°41'41
conjunction	6117 Jul 28 13:42	9° Ω 44'25 -10°05'03	minimum elong	6123 Aug 04 02:58	$15^{\circ} \Omega 37'53 8^{\circ} 41'42$
minimum elong	6117 Jul 28 13:54	9° Ω 44'26 10°05'05	morning rise	6123 Aug 17 04:40	15° Ω 55'58
max. Earth dist.				0123 1145 17 01.10	
	6117 Jul 28 01:31	9° Ω 43'43 48.71220 A	U retrograde	6123 Nov 14 14:38	17° Ω 09'01
morning rise		9° Ω 43'43 48.71220 A 10° Ω 00'40	U retrograde opposition	=	
morning rise retrograde	6117 Jul 28 01:31		=	6123 Nov 14 14:38	17° Ω 09'01
-	6117 Jul 28 01:31 6117 Aug 09 10:35	10° Ω 00'40	opposition	6123 Nov 14 14:38 6124 Feb 05 09:49	17° Ω 09'01 16° Ω 08'39 -8°56'35
retrograde	6117 Jul 28 01:31 6117 Aug 09 10:35 6117 Nov 08 02:46	10° Ω 00'40 11° Ω 14'27	opposition min. Earth dist. direct	6123 Nov 14 14:38 6124 Feb 05 09:49 6124 Feb 06 03:57	17° Ω 09'01 16° Ω 08'39 -8°56'35 16° Ω 07'47 45.89880 AU
retrograde opposition	6117 Jul 28 01:31 6117 Aug 09 10:35 6117 Nov 08 02:46 6118 Jan 30 02:37	10° Ω 00'40 11° Ω 14'27 10° Ω 14'42 -10°23'50	opposition min. Earth dist. direct	6123 Nov 14 14:38 6124 Feb 05 09:49 6124 Feb 06 03:57 6124 Apr 26 22:36	17° Ω 09'01 16° Ω 08'39 -8°56'35 16° Ω 07'47 45.89880 AU 15° Ω 08'36
retrograde opposition min. Earth dist.	6117 Jul 28 01:31 6117 Aug 09 10:35 6117 Nov 08 02:46 6118 Jan 30 02:37 6118 Jan 30 13:59	10°Ω00'40 11°Ω14'27 10°Ω14'42 -10°23'50 10°Ω14'10 46.68505 A	opposition min. Earth dist. direct	6123 Nov 14 14:38 6124 Feb 05 09:49 6124 Feb 06 03:57 6124 Apr 26 22:36	17° Ω 09'01 16° Ω 08'39 -8°56'35 16° Ω 07'47 45.89880 AU 15° Ω 08'36
retrograde opposition min. Earth dist. direct	6117 Jul 28 01:31 6117 Aug 09 10:35 6117 Nov 08 02:46 6118 Jan 30 02:37 6118 Jan 30 13:59 6118 Apr 21 14:58	10° Ω00'40 11° Ω14'27 10° Ω14'42 -10°23'50 10° Ω14'10 46.68505 A 9° Ω15'23	opposition min. Earth dist. direct U evening set	6123 Nov 14 14:38 6124 Feb 05 09:49 6124 Feb 06 03:57 6124 Apr 26 22:36 6124 Jul 22 04:40	17°Ω09'01 16°Ω08'39 -8°56'35 16°Ω07'47 45.89880 AU 15°Ω08'36 16°Ω19'10
retrograde opposition min. Earth dist. direct	6117 Jul 28 01:31 6117 Aug 09 10:35 6117 Nov 08 02:46 6118 Jan 30 02:37 6118 Jan 30 13:59 6118 Apr 21 14:58	10° Ω00'40 11° Ω14'27 10° Ω14'42 -10°23'50 10° Ω14'10 46.68505 A 9° Ω15'23	opposition min. Earth dist. direct U evening set conjunction	6123 Nov 14 14:38 6124 Feb 05 09:49 6124 Feb 06 03:57 6124 Apr 26 22:36 6124 Jul 22 04:40 6124 Aug 04 09:18	17° Ω09'01 16° Ω08'39 -8°56'35 16° Ω07'47 45.89880 AU 15° Ω08'36 16° Ω19'10 16° Ω37'27 -8°26'57
retrograde opposition min. Earth dist. direct evening set	6117 Jul 28 01:31 6117 Aug 09 10:35 6117 Nov 08 02:46 6118 Jan 30 02:37 6118 Jan 30 13:59 6118 Apr 21 14:58 6118 Jul 17 19:17	10° Ω00'40 11° Ω14'27 10° Ω14'42 -10°23'50 10° Ω14'10 46.68505 A 9° Ω15'23 10° Ω26'27	opposition min. Earth dist. direct U evening set conjunction minimum elong	6123 Nov 14 14:38 6124 Feb 05 09:49 6124 Feb 06 03:57 6124 Apr 26 22:36 6124 Jul 22 04:40 6124 Aug 04 09:18 6124 Aug 04 09:28	17° Ω09'01 16° Ω08'39 -8°56'35 16° Ω07'47 45.89880 AU 15° Ω08'36 16° Ω19'10 16° Ω37'27 -8°26'57 16° Ω37'28 8°26'58
retrograde opposition min. Earth dist. direct evening set conjunction	6117 Jul 28 01:31 6117 Aug 09 10:35 6117 Nov 08 02:46 6118 Jan 30 02:37 6118 Jan 30 13:59 6118 Apr 21 14:58 6118 Jul 17 19:17 6118 Jul 29 19:42	10° Ω00'40 11° Ω14'27 10° Ω14'42 -10°23'50 10° Ω14'10 46.68505 A 9° Ω15'23 10° Ω26'27 10° Ω42'55 -9°51'44	opposition min. Earth dist. direct u evening set conjunction minimum elong max. Earth dist. morning rise	6123 Nov 14 14:38 6124 Feb 05 09:49 6124 Feb 06 03:57 6124 Apr 26 22:36 6124 Jul 22 04:40 6124 Aug 04 09:18 6124 Aug 04 09:28 6124 Aug 03 13:56	17° Ω09'01 16° Ω08'39 -8°56'35 16° Ω07'47 45.89880 AU 15° Ω08'36 16° Ω19'10 16° Ω37'27 -8°26'57 16° Ω37'28 8°26'58 16° Ω36'19 47.80638 AU
retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	6117 Jul 28 01:31 6117 Aug 09 10:35 6117 Nov 08 02:46 6118 Jan 30 02:37 6118 Jan 30 13:59 6118 Apr 21 14:58 6118 Jul 17 19:17 6118 Jul 29 19:42 6118 Jul 29 19:52	10° Ω00'40 11° Ω14'27 10° Ω14'42 -10°23'50 10° Ω14'10 46.68505 A 9° Ω15'23 10° Ω26'27 10° Ω42'55 -9°51'44 10° Ω42'56 9°51'44	opposition min. Earth dist. direct u evening set conjunction minimum elong max. Earth dist. morning rise	6123 Nov 14 14:38 6124 Feb 05 09:49 6124 Feb 06 03:57 6124 Apr 26 22:36 6124 Jul 22 04:40 6124 Aug 04 09:18 6124 Aug 04 09:28 6124 Aug 03 13:56 6124 Aug 17 15:31	17° Ω09'01 16° Ω08'39 -8°56'35 16° Ω07'47 45.89880 AU 15° Ω08'36 16° Ω19'10 16° Ω37'27 -8°26'57 16° Ω37'28 8°26'58 16° Ω36'19 47.80638 AU 16° Ω55'50
retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	6117 Jul 28 01:31 6117 Aug 09 10:35 6117 Nov 08 02:46 6118 Jan 30 02:37 6118 Jan 30 13:59 6118 Apr 21 14:58 6118 Jul 17 19:17 6118 Jul 29 19:42 6118 Jul 29 19:52 6118 Jul 29 06:18	10° Ω00'40 11° Ω14'27 10° Ω14'42 -10°23'50 10° Ω14'10 46.68505 A 9° Ω15'23 10° Ω26'27 10° Ω42'55 -9°51'44 10° Ω42'56 9°51'44 10° Ω42'09 48.59480 A	opposition min. Earth dist. direct U evening set conjunction minimum elong max. Earth dist. morning rise U retrograde	6123 Nov 14 14:38 6124 Feb 05 09:49 6124 Feb 06 03:57 6124 Apr 26 22:36 6124 Jul 22 04:40 6124 Aug 04 09:18 6124 Aug 04 09:28 6124 Aug 17 15:31 6124 Nov 14 18:24	17° Ω09'01 16° Ω08'39 -8°56'35 16° Ω07'47 45.89880 AU 15° Ω08'36 16° Ω19'10 16° Ω37'27 -8°26'57 16° Ω37'28 8°26'58 16° Ω36'19 47.80638 AU 16° Ω55'50 18° Ω08'50
retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	6117 Jul 28 01:31 6117 Aug 09 10:35 6117 Nov 08 02:46 6118 Jan 30 02:37 6118 Jan 30 13:59 6118 Apr 21 14:58 6118 Jul 17 19:17 6118 Jul 29 19:42 6118 Jul 29 19:52 6118 Jul 29 06:18 6118 Aug 10 21:42	10° Ω00'40 11° Ω14'27 10° Ω14'42 -10°23'50 10° Ω14'10 46.68505 A 9° Ω15'23 10° Ω26'27 10° Ω42'55 -9°51'44 10° Ω42'56 9°51'44 10° Ω42'09 48.59480 A 10° Ω59'29	opposition min. Earth dist. direct U evening set conjunction minimum elong max. Earth dist. morning rise U retrograde opposition	6123 Nov 14 14:38 6124 Feb 05 09:49 6124 Feb 06 03:57 6124 Apr 26 22:36 6124 Jul 22 04:40 6124 Aug 04 09:18 6124 Aug 04 09:28 6124 Aug 17 15:31 6124 Nov 14 18:24 6125 Feb 05 15:12	17° Ω09'01 16° Ω08'39 -8°56'35 16° Ω07'47 45.89880 AU 15° Ω08'36 16° Ω19'10 16° Ω37'27 -8°26'57 16° Ω36'19 47.80638 AU 16° Ω55'50 18° Ω08'50 17° Ω08'21 -8°41'09
retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	6117 Jul 28 01:31 6117 Aug 09 10:35 6117 Nov 08 02:46 6118 Jan 30 02:37 6118 Jan 30 13:59 6118 Apr 21 14:58 6118 Jul 17 19:17 6118 Jul 29 19:52 6118 Jul 29 06:18 6118 Aug 10 21:42 6118 Nov 09 07:03	10° Ω00'40 11° Ω14'27 10° Ω14'42 -10°23'50 10° Ω14'10 46.68505 A 9° Ω15'23 10° Ω26'27 10° Ω42'55 -9°51'44 10° Ω42'56 9°51'44 10° Ω42'09 48.59480 A 10° Ω59'29 12° Ω13'08	opposition min. Earth dist. direct U evening set conjunction minimum elong max. Earth dist. morning rise U retrograde opposition min. Earth dist. direct	6123 Nov 14 14:38 6124 Feb 05 09:49 6124 Feb 06 03:57 6124 Apr 26 22:36 6124 Jul 22 04:40 6124 Aug 04 09:18 6124 Aug 04 09:28 6124 Aug 03 13:56 6124 Aug 17 15:31 6124 Nov 14 18:24 6125 Feb 05 15:12 6125 Feb 06 09:13	17° Ω09'01 16° Ω08'39 -8°56'35 16° Ω07'47 45.89880 AU 15° Ω08'36 16° Ω19'10 16° Ω37'27 -8°26'57 16° Ω36'19 47.80638 AU 16° Ω55'50 18° Ω08'50 17° Ω08'21 -8°41'09 17° Ω07'29 45.75687 AU

	(125 A 05 15-52	170 027110 0011150	4:4	(122 M 04 21.50	220 0 1 5100
conjunction	6125 Aug 05 15:53	17° Ω 37'19 -8°11'58	direct	6132 May 04 21:58	23° € 15'08
minimum elong	6125 Aug 05 16:02	17° Ω 37'19 8°11'59	evening set	6132 Jul 29 07:29	24° Ω 26'01
max. Earth dist.	6125 Aug 04 18:37	17° Ω 36′04 47.66440 A	U		
morning rise	6125 Aug 19 02:33	17° Ω 55'59	conjunction	6132 Aug 12 19:16	24° Ω 46'33 -6°20'28
retrograde	6125 Nov 16 02:13	19° Ω 08'57	minimum elong	6132 Aug 12 19:25	24° Ω 46'33 6°20'30
opposition	6126 Feb 06 20:54	18° Ω 08'23 -8°25'27	max. Earth dist.	6132 Aug 11 12:44	24° Ω 44'44 46.55485 AU
min. Earth dist.	6126 Feb 07 16:42	18° Ω 07'26 45.61214 A	U morning rise	6132 Aug 27 08:47	25° Ω 07'11
direct	6126 Apr 29 11:18	17° Ω 08'06	retrograde	6132 Nov 23 10:12	26° Ω 20'15
evening set	6126 Jul 24 09:29	18° Ω 18'39	opposition	6133 Feb 13 16:01	25° Ω 18'49 -6°28'41
evening sec	0120341 21 09.29	10 00103)	min. Earth dist.	6133 Feb 14 19:50	25° Ω 17'27 44.47829 AU
conjunction	6126 Aug 06 22:42	18° Ω 37'31 -7°56'44	direct	6133 May 06 01:14	24°Ω17'27 44.47'827'A0
	6126 Aug 06 22:43			•	
minimum elong	6126 Aug 06 22:53	18° Ω 37'32 7°56'46	evening set	6133 Jul 30 11:58	25° Ω 28'27
max. Earth dist.	6126 Aug 06 01:28	18°Ω36'17 47.51938 A	U max. Earth dist.	6133 Aug 12 19:59	25° Ω 47'22 46.37870 AU
morning rise	6126 Aug 20 13:28	18° Ω 56'30			
retrograde	6126 Nov 17 09:22	20° Ω 09'26	conjunction	6133 Aug 14 03:12	25° Ω 49'14 -6°03'36
opposition	6127 Feb 08 02:39	19° Ω 08'47 -8°09'31	minimum elong	6133 Aug 14 03:20	25° Ω 49'14 6°03'36
min. Earth dist.	6127 Feb 08 22:59	19° Ω 07'48 45.46394 A	U morning rise	6133 Aug 28 19:56	26° Ω 10'08
direct	6127 Apr 30 16:50	18° Ω 08'23	retrograde	6133 Nov 24 17:13	27° Ω 23'16
evening set	6127 Jul 25 12:35	19° Ω 18'58	opposition	6134 Feb 14 22:44	26° Ω 21'39 -6°10'59
max. Earth dist.	6127 Aug 07 06:24	19° Ω 36'45 47.37060 A		6134 Feb 16 03:54	26° Ω 20'13 44.29946 AU
man zam usv.	01271148 07 00.21	17 0000 10 17.57000 11	direct	6134 May 07 08:27	25° Ω 20'07
agniumation	6127 Aug 00 05:45	19° Ω 38'07 -7°41'16		6134 Jul 31 16:42	26°Ω31'13
conjunction	6127 Aug 08 05:45	$19^{\circ} \Omega 38'07 - 7'41'17$	evening set		
minimum elong	6127 Aug 08 05:54		max. Earth dist.	6134 Aug 14 03:17	26° £ 50′21 46.19962 AU
morning rise	6127 Aug 22 00:42	19° € 57′23			
retrograde	6127 Nov 18 19:20	21° Ω 10'18	conjunction	6134 Aug 15 11:11	26° Ω 52'16 -5°46'29
opposition	6128 Feb 09 08:26	20° Ω 09'34 -7°53'19	minimum elong	6134 Aug 15 11:18	$26^{\circ} \Omega 52'17 5^{\circ} 46'30$
min. Earth dist.	6128 Feb 10 06:01	20° Ω 08'31 45.31172 A	U morning rise	6134 Aug 30 07:09	27° Ω 13'26
direct	6128 Apr 30 19:38	19° ん 09'02	retrograde	6134 Nov 25 23:05	28° Ω 26'39
evening set	6128 Jul 25 15:51	20° Ω 19'40	opposition	6135 Feb 16 05:29	27° Ω 24'53 -5°53'02
			min. Earth dist.	6135 Feb 17 10:41	27° Ω 23'26 44.11791 AU
conjunction	6128 Aug 08 13:04	20° Ω 39'06 -7°25'34	direct	6135 May 08 17:35	26° Ω 23'08
minimum elong	6128 Aug 08 13:13	20° Ω 39'07 7°25'36	evening set	6135 Aug 01 21:56	27° Ω 34'24
max. Earth dist.	6128 Aug 07 12:33	20°Ω37'40 47.21721 A	· ·	6135 Aug 15 09:42	27°Ω53'41 46.01780 AU
morning rise	6128 Aug 22 11:54	20° Ω 58'39	o max. Earth dist.	0133 Aug 13 07.42	27 003541 40.01700710
-		= =	aaniumatian	6125 Aug 16 10:24	279 055142 5920106
retrograde	6128 Nov 19 02:35	22°Ω11'35	conjunction	6135 Aug 16 19:24	27°Ω55'43 -5°29'06
opposition	6129 Feb 09 14:36	21° Q 10'44 -7°36'53	minimum elong	6135 Aug 16 19:32	27° Ω 55'43 5°29'06
min. Earth dist.	6129 Feb 10 14:08	21° Ω 09'35 45.15462 A	2	6135 Aug 31 18:30	28° Ω 17'08
direct	6129 May 02 01:55	20° Ω 10′04	retrograde	6135 Nov 27 06:37	29° Ω 30′28
evening set	6129 Jul 26 19:16	21° Ω 20'45	opposition	6136 Feb 17 12:28	28° Ω 28'32 -5°34'47
			min. Earth dist.	6136 Feb 18 19:23	28° Ω 27'00 43.93394 AU
conjunction	6129 Aug 09 20:20	21° Ω 40'28 -7°09'39	direct	6136 May 09 00:57	27° Ω 26'36
minimum elong	6129 Aug 09 20:29	21° Ω 40'29 7°09'40	evening set	6136 Aug 02 03:17	28° Ω 38'01
max. Earth dist.	6129 Aug 08 18:38	21°Ω38'57 47.05894 A	U max. Earth dist.	6136 Aug 15 18:21	28° Ω 57'34 45.83375 AU
morning rise	6129 Aug 23 22:57	22° Ω 00'18		C	
retrograde	6129 Nov 20 08:12	23° Ω 13'15	conjunction	6136 Aug 17 03:52	28° Ω 59'36 -5°11'28
opposition	6130 Feb 10 20:48	22° Ω 12'16 -7°20'12	minimum elong	6136 Aug 17 03:59	28° Q 59'36 5°11'29
min. Earth dist.	6130 Feb 11 20:38	22°Ω11'06 44.99249 A	•	6136 Sep 01 05:43	29° Ω 21'16
		21° Ω 11'26	o morning risc	6136 Oct 01 05:14	0° m
direct	6130 May 03 09:29	= =	. 1		•
evening set	6130 Jul 27 23:08	22° € 22'11	retrograde	6136 Nov 27 14:33	0° m/34'45
max. Earth dist.	6130 Aug 09 23:48	22° Ω 40'31 46.89550 A		6137 Jan 25 02:37	30°R Ω
			opposition	6137 Feb 17 19:38	29° Ω 32'40 -5°16'17
conjunction	6130 Aug 11 03:51	22° Ω 42'10 -6°53'29	min. Earth dist.	6137 Feb 19 02:30	29° Ω 31'07 43.74776 AU
minimum elong	6130 Aug 11 03:59	22° Ω 42'11 6°53'32	direct	6137 May 10 08:05	28° Ω 30'34
morning rise	6130 Aug 25 10:19	23° Ω 02'17	evening set	6137 Aug 03 08:59	29° Ω 42'10
retrograde	6130 Nov 21 15:23	24° Ω 15'15		6137 Aug 15 18:18	0° m
opposition	6131 Feb 12 03:07	23° Ω 14'08 -7°03'17	max. Earth dist.	6137 Aug 17 00:59	0° Mp 01'51 45.64753 AU
min. Earth dist.	6131 Feb 13 05:13	23° Ω 12'51 44.82542 A		Ç ·	•
direct	6131 May 04 16:06	22° Ω 13'08	conjunction	6137 Aug 18 12:12	0° m 03'59 -4°53'34
evening set	6131 Jul 29 03:09	23° Ω 23'56	minimum elong	6137 Aug 18 12:19	0° m 04'00 4°53'35
max. Earth dist.	6131 Aug 11 07:16	23°Ω42'31 46.72731 A	· ·	6137 Sep 02 17:01	0° m) 25'55
max. Earui UISt.	0151 Aug 11 U/.10	40./4/31 A	=	=	•
	(121 / 12 :: 22	220 0 4 4112 - (22712)	retrograde	6137 Nov 29 02:42	1° 10/39'34
conjunction	6131 Aug 12 11:38	23° Ω 44'12 -6°37'06	opposition	6138 Feb 19 03:03	0° m 37'20 -4°57'29
minimum elong	6131 Aug 12 11:46	23° Ω 44'13 6°37'07	min. Earth dist.	6138 Feb 20 10:55	0° m/35'44 43.55944 AU
morning rise	6131 Aug 26 21:32	24° Ω 04'34		6138 Mar 24 10:28	30°R Ω
retrograde	6131 Nov 22 23:33	25° Ω 17'35	direct	6138 May 11 11:46	29° Ω 35′03
opposition	6132 Feb 13 09:32	24° Ω 16'19 -6°46'07		6138 Jun 27 23:50	0° m/
min. Earth dist.	6132 Feb 14 12:14	24° Ω 15'00 44.65376 A	U evening set	6138 Aug 04 15:04	0° m 46'53

max. Earth dist.	6138 Aug 18 09:23	1° Mp 06'47 45.45880 AU	J min. Earth dist.	6145 Feb 28 03:54 6145 May 18 18:56	8° Mp 24'09 42.14002 AU 7° Mp 22'18
conjunction	6138 Aug 19 21:06	1° Mp 08'58 -4°35'25	evening set	6145 Aug 11 21:35	8° Mp 36'08
minimum elong	6138 Aug 19 21:12	1° Mp 08'58 4°35'26	max. Earth dist.	6145 Aug 25 20:40	8° Mp 56'57 44.03136 AU
morning rise	6138 Sep 04 04:26	•	max. Earth dist.	0143 Aug 23 20.40	8 11/2003/ 44.03130 AO
•	6138 Nov 30 13:21	1° Mp 31'08 2° Mp 44'58	agniunation	6145 Aug 27 17:50	8° m 59'48 -2°21'20
retrograde		•	conjunction minimum elong	6145 Aug 27 17:59	•
opposition min. Earth dist.	6139 Feb 20 10:33	1° m 42'35 -4°38'26	_	6145 Aug 27 18:02	8° mp 59'48 2°21'22 9° mp 23'34
	6139 Feb 21 19:48	1° Mp 40'55 43.36836 AU	Č	6145 Sep 12 15:25	•
direct	6139 May 12 18:01	0° Mp 40'08	retrograde	6145 Dec 08 10:22	10° Mp 39'06
evening set	6139 Aug 05 21:41	1° m 52'13	opposition	6146 Feb 27 21:39	9° m 35'16 -2°17'30
max. Earth dist.	6139 Aug 19 17:25	2° Mp 12'17 45.26713 AU		6146 Mar 01 14:56	9° m 33'08 41.92273 AU
	(120) 21 0(12	207 1 422 4017400	direct	6146 May 20 04:56	8° m 31'07
conjunction	6139 Aug 21 06:13	2° Mp 14'32 -4°17'00	evening set	6146 Aug 13 06:56	9° m 45'18
minimum elong	6139 Aug 21 06:19	2° m/ 14'33 4°17'01	max. Earth dist.	6146 Aug 27 07:33	10°Mp06'19 43.81340 AU
morning rise	6139 Sep 05 16:05	2° m/36'57			
retrograde	6139 Dec 01 23:19	3° m 50'59	conjunction	6146 Aug 29 04:50	10°Mp09'11 -2°01'11
opposition	6140 Feb 21 18:15	2° m 48'27 -4°19'06	minimum elong	6146 Aug 29 04:54	10°Mp09'11 2°01'11
min. Earth dist.	6140 Feb 23 03:48	2°Mp46'46 43.17399 AU	- C	6146 Sep 14 03:32	10° m 33′09
direct	6140 May 13 01:32	1° m 45'49	retrograde	6146 Dec 09 19:02	11° Mp 49'00
evening set	6140 Aug 06 04:43	2° Mp 58'09	opposition	6147 Mar 01 06:49	10° Mp 44'55 -1°56'17
max. Earth dist.	6140 Aug 20 00:43	3°Mp18'20 45.07154 AU	J min. Earth dist.	6147 Mar 02 23:57	10°Mp42'47 41.70319 AU
			direct	6147 May 21 15:43	9° m 40′30
conjunction	6140 Aug 21 15:32	3° m/20′43 -3°58′21	evening set	6147 Aug 14 16:54	10° m 55'04
minimum elong	6140 Aug 21 15:37	3°m/20'44 3°58'21	max. Earth dist.	6147 Aug 28 16:38	11°Mp16'09 43.59331 AU
morning rise	6140 Sep 06 03:44	3° Mp 43'23			
retrograde	6140 Dec 02 06:24	4° m 57'39	conjunction	6147 Aug 30 15:52	11° Mp 19'09 -1°40'47
opposition	6141 Feb 22 02:20	3° Mp 54'56 -3°59'30	minimum elong	6147 Aug 30 15:54	11° Mg 19'09 1°40'48
min. Earth dist.	6141 Feb 23 14:05	3° Mp 53'07 42.97554 AU	J morning rise	6147 Sep 15 15:50	11° m 43'19
direct	6141 May 14 11:04	2° m 52'05	retrograde	6147 Dec 11 06:51	12° m 59'32
evening set	6141 Aug 07 12:04	4° m 04'42	opposition	6148 Mar 01 16:28	11° m 55'12 -1°34'47
max. Earth dist.	6141 Aug 21 10:02	4° m/25'04 44.87175 AU	11	6148 Mar 03 10:56	11° m/52'59 41.48189 AU
	Ü	•	direct	6148 May 21 23:23	10° m 50'31
conjunction	6141 Aug 23 01:14	4° mp 27'29 -3°39'26	evening set	6148 Aug 15 03:04	12° m/05'30
minimum elong	6141 Aug 23 01:20	4° mp 27'30 3°39'28	max. Earth dist.	6148 Aug 29 04:01	12° m) 26'47 43.37146 AU
morning rise	6141 Sep 07 15:29	4° m 50'23	man. Barur diot.	01.01148 25 001	12 1, 20 1, 15.5 / 110 110
retrograde	6141 Dec 03 14:06	6° Mp 04'53	conjunction	6148 Aug 31 03:11	12° mb 29'47 -1°20'07
opposition	6142 Feb 23 10:31	5° Mp 01'58 -3°39'38	minimum elong	6148 Aug 31 03:13	12° m 29'47 1°20'07
min. Earth dist.	6142 Feb 24 22:42	5° Mp 00'08 42.77272 AU	•	6148 Sep 16 03:55	12° m 54'08
direct	6142 May 15 20:36	3° m 58'54	retrograde	6148 Dec 11 19:05	14° m) 10'45
evening set	6142 Aug 08 19:55	5° Mp 11'47	opposition	6149 Mar 03 02:24	13° Mp 06'12 -1°13'01
max. Earth dist.	6142 Aug 22 17:18	5° mp 32'13 44.66754 AU	**	6149 Mar 04 21:23	13° Mp 03'57 41.25896 AU
max. Lartii dist.	0142 Aug 22 17.10	3 11 y 32 13 44.00734 AC	direct	6149 May 23 07:41	12° Mp 01'15
conjunction	6142 Aug 24 11:02	5° mp 34'48 -3°20'17	evening set	6149 Aug 16 13:54	13° Mp 16'43
minimum elong	6142 Aug 24 11:02 6142 Aug 24 11:07	5° m 34'49 3°20'18	max. Earth dist.	6149 Aug 30 14:24	13° Mp 38'05 43.14822 AU
morning rise	6142 Sep 09 03:30	5° Mp 57'56	max. Earth dist.	0149 Aug 30 14.24	13 IIV 38 03 43.14822 AO
retrograde	6142 Dec 05 02:16	7° m) 12'40	conjunction	6149 Sep 01 14:45	13° Mp 41'11 -0°59'12
opposition	6143 Feb 24 19:01	6° Mp 09'32 -3°19'30	minimum elong	6149 Sep 01 14:46	13° Mp 41'11 0°59'13
min. Earth dist.	6143 Feb 26 08:50	6° Mp 07'37 42.56562 AU	· ·	6149 Sep 17 16:23	14° Mp 05'43
direct	6143 May 17 01:57	5° Mp 06'13	retrograde	6149 Dec 13 09:43	15° Mp 22'46
evening set	6143 Aug 10 04:07	6° Mp 19'23	opposition	6150 Mar 04 12:30	14° Mp 17'59 -0°50'59
Č	_	•			•
max. Earth dist.	6143 Aug 24 02:50	6°Mp40'00 44.45899 AU		6150 Mar 06 07:44	14° Mp 15'43 41.03470 AU
:	(142 A 25 21.19	(0 m 42120 2000152	direct	6150 May 24 15:15	13° M 12'47
conjunction	6143 Aug 25 21:18	6° m 42'38 -3°00'53	evening set	6150 Aug 18 01:14	14° m 28'46
minimum elong	6143 Aug 25 21:22	6° Mp 42'38 3°00'55	max. Earth dist.	6150 Sep 01 01:16	14° Mp 50'14 42.92321 AU
morning rise	6143 Sep 10 15:26	7° Mp 05'59		(150 0 02 02 46	1.40 m. 5212 5 0020102
retrograde	6143 Dec 06 12:45	8° Mp 20'58	conjunction	6150 Sep 03 02:46	14° Mp 53'25 -0°38'03
opposition	6144 Feb 26 03:37	7° Mp 17'37 -2°59'07	minimum elong	6150 Sep 03 02:47	14° Mp 53'25 0°38'03
min. Earth dist.	6144 Feb 27 18:42	7° Mp 15'37 42.35445 AU	- C	6150 Sep 19 04:54	15° Mp 18'09
direct	6144 May 17 10:02	6° Mp 14'01	retrograde	6150 Dec 14 21:32	16° Mp 35'40
evening set	6144 Aug 10 12:45	7° m/27'30	opposition	6151 Mar 05 23:06	15° m 30'40 -0°28'40
max. Earth dist.	6144 Aug 24 11:54	7°Mp48'14 44.24681 AU		6151 Mar 07 20:01	15° To 28'18 40.80849 AU
			direct	6151 May 26 02:21	14° m 25'14
conjunction	6144 Aug 26 07:36	7° m 50'58 -2°41'14	evening set	6151 Aug 19 13:13	15° m 41'45
minimum elong	6144 Aug 26 07:40	7° m 50'58 2°41'15	max. Earth dist.	6151 Sep 02 13:29	16°Mp03'21 42.69601 AU
morning rise	6144 Sep 11 03:31	8° m) 14'31			
retrograde	6144 Dec 07 00:17	9° m 29'46	conjunction	6151 Sep 04 15:13	16° Mp 06'35 -0°16'39
opposition	6145 Feb 26 12:27	8° Mp 26'10 -2°38'27	minimum elong	6151 Sep 04 15:14	16° Mp 06'35 0°16'39

morning rise	6151 Sep 20 17:38	16° m 31'29		direct	6158 Jun 03 10:50	23° m 17'57	
retrograde	6151 Dec 16 08:38	17° m) 49'30		evening set	6158 Aug 28 18:00	24° m/39'02	
opposition	6152 Mar 06 09:47	16° Mp 44'18	-0°06'05	max. Earth dist.	6158 Sep 11 06:23	-•	41.01439 AU
min. Earth dist.	6152 Mar 08 06:50	-•	40.57980 AU	max. Earth dist.	0130 Sep 11 00.23	23 14 00 31	11.01 137 110
direct	6152 May 26 14:53	15° m) 38'36	10.57700710	conjunction	6158 Sep 13 16:29	25° m 04'49	2°19'46
asc. node	6152 Jun 12 11:05	15° Mp 42'07		minimum elong	6158 Sep 13 16:25	25° m 04'48	2°19'46
evening set	6152 Aug 20 01:56	16° m) 55'43		morning rise	6158 Sep 29 14:41	25° m 30'37	2 17 40
max. Earth dist.	6152 Sep 02 23:52		42.46583 AU	retrograde	6158 Dec 25 11:35	26° m 52'49	
max. Earth dist.	0132 Sep 02 23.32	17 11/11/19	42.40303710	opposition	6159 Mar 15 23:33	25° m 45'37	2°39'07
conjunction	6152 Sep 05 03:59	17° m) 20'43	0°05'06	min. Earth dist.	6159 Mar 18 03:53	25° m) 42'44	
minimum elong	6152 Sep 05 03:57	17 mg 20 43	0°05'06	direct	6159 Jun 05 00:55	24° Mp 37'36	36.66990 AU
behind sun begin	6152 Sep 04 21:38	17 my 20 43 17° my 20'20	0 03 00	evening set	6159 Aug 30 11:05	25° m 59'28	
behind sun end	=			max. Earth dist.	•		40.76429 ATT
	6152 Sep 05 10:17	17° Mp 21'06		max. Earm dist.	6159 Sep 12 19:56	20 11/21113	40.76438 AU
morning rise	6152 Sep 21 06:36	17° Mp 45'47			(150.0 15.07.50	2 (0 m- 2 511 0	20.42150
retrograde	6152 Dec 16 22:01	19° Mp 04'20	0017145	conjunction	6159 Sep 15 07:50	26° m 25'19	
opposition	6153 Mar 07 21:05	17° m 58'54	0°16'45	minimum elong	6159 Sep 15 07:45	26° m 25'19	2°42′39
min. Earth dist.	6153 Mar 09 20:04		40.34801 AU	morning rise	6159 Oct 01 04:32	26° m 51'12	
direct	6153 May 28 00:04	16° Mp 52'56		retrograde	6159 Dec 27 04:17	28° Mp 14'08	2002141
evening set	6153 Aug 21 14:54	18° m) 10'38		opposition	6160 Mar 16 13:12	27° Mp 06'36	3°03'41
max. Earth dist.	6153 Sep 04 12:41	18° m) 32'21	42.23216 AU	min. Earth dist.	6160 Mar 18 18:29	-	38.64021 AU
				direct	6160 Jun 05 11:32	25° m 58'13	
conjunction	6153 Sep 06 17:05	18° Mp 35′48	0°26'55	evening set	6160 Aug 31 04:42	27° Mp 20'54	
minimum elong	6153 Sep 06 17:05	18° m y 35'48	0°26'55	max. Earth dist.	6160 Sep 13 11:40	27° m 42'41	40.51349 AU
morning rise	6153 Sep 22 19:28	19° m 01'01					
retrograde	6153 Dec 18 10:43	20° Mp 20'08		conjunction	6160 Sep 15 23:44	27° Mp 46'49	3°06'23
opposition	6154 Mar 09 08:41	19° m) 14'27	0°39'51	minimum elong	6160 Sep 15 23:38	27° M∤46'49	3°06'23
min. Earth dist.	6154 Mar 11 08:21	19° m 11'53	40.11252 AU	morning rise	6160 Oct 01 18:21	28° № 12'46	
direct	6154 May 29 11:08	18° m)08'11		retrograde	6160 Dec 27 20:35	29° ™ 36′29	
evening set	6154 Aug 23 04:49	19° m 26'31		opposition	6161 Mar 18 03:27	28° Mp 28′36	3°28'28
max. Earth dist.	6154 Sep 06 00:13	19° m 48'13	41.99482 AU	min. Earth dist.	6161 Mar 20 09:22	28° M 25'36	38.38988 AU
				direct	6161 Jun 07 00:23	27° m 19'51	
conjunction	6154 Sep 08 06:37	19° m 51'49	0°49'02	evening set	6161 Sep 01 22:59	28° Mp 43'25	
minimum elong	6154 Sep 08 06:36	19° m 51'49	0°49'02	max. Earth dist.	6161 Sep 15 03:16	29° m 05'11	40.26228 AU
morning rise	6154 Sep 24 08:50	20° m 17'11					
retrograde	6154 Dec 20 03:28	21° m/36'51		conjunction	6161 Sep 17 15:51	29° m 09'23	3°29'59
opposition	6155 Mar 10 20:29	20° m/30'54	1°03'13	minimum elong	6161 Sep 17 15:45	29° m 09'23	3°29'59
min. Earth dist.	6155 Mar 12 21:16		39.87352 AU	morning rise	6161 Oct 03 08:22	29° m 35'22	
direct	6155 May 30 20:06	19° m 24'19		C	6161 Oct 19 01:33	0∘ ⊽	
evening set	6155 Aug 24 19:16	20° m 43'18		retrograde	6161 Dec 29 16:00	0° £ 59'55	
max. Earth dist.	6155 Sep 07 12:57		41.75379 AU		6162 Mar 13 13:38	30°R, Mp	
		•		opposition	6162 Mar 19 18:01	29° m 51'43	3°53'27
conjunction	6155 Sep 09 20:39	21° Mp 08'44	1°11'23	min. Earth dist.	6162 Mar 21 23:48	-	38.13933 AU
minimum elong	6155 Sep 09 20:37	21° Mp 08'44	1°11'23	direct	6162 Jun 08 14:19	28° Mp 42'36	30.13,33,110
morning rise	6155 Sep 25 22:09	21° Mp 34'13	1 11 20	anov	6162 Aug 30 09:01	0ಂ ರ	
retrograde	6155 Dec 21 19:25	22° m/54'30		evening set	6162 Sep 03 18:16	0° ≏ 07'07	
opposition	6156 Mar 11 08:49		1°26'49	max. Earth dist.	6162 Sep 16 18:47		40.01050 AU
min. Earth dist.	6156 Mar 13 11:19		39.63112 AU	max. Larm dist.	0102 Sep 10 10.17	0 -20 17	10.01030710
direct	6156 May 31 07:40	20° m) 41'20	37.03112710	conjunction	6162 Sep 19 08:42	0° £ 33'07	3°53'45
evening set	6156 Aug 25 10:09	22° Mp 00'59		minimum elong	6162 Sep 19 08:35	0° ⊆ 33'07	
max. Earth dist.	6156 Sep 08 02:26	-	41.50971 AU	morning rise	6162 Oct 04 22:40	0° ⊆ 59'07	3 33 44
max. Lartii dist.	0130 Sep 00 02.20	22 11/22 40	41.50)/1 AO	retrograde	6162 Dec 31 10:38	2° ⊆ 24'32	
conjunction	6156 Sep 10 10:48	22° m/26'33	1°33'58	opposition	6163 Mar 21 09:04	1° ⊆ 16'02	1018127
minimum elong	6156 Sep 10 10:45	-	1°33'57	min. Earth dist.	6163 Mar 23 16:32		37.88823 AU
_	6156 Sep 26 11:29	22° m 52'09	1 33 37		6163 Jun 10 04:43	0° £ 06'33	37.00023 AU
morning rise				direct			
retrograde	6156 Dec 22 09:50	24° Mp 13'02	1050141	evening set	6163 Sep 05 14:21	1° Ω 32'04	20.75707 AII
opposition	6157 Mar 12 21:18		1°50'41	max. Earth dist.	6163 Sep 18 12:18	1 == 35.43	39.75797 AU
min. Earth dist.	6157 Mar 14 23:48		39.38602 AU		(1(2,0, 21,02,07	10 0 50105	4017140
direct	6157 Jun 01 21:24	21° Mp 59'12		conjunction	6163 Sep 21 02:06	1° Ω 58'05	
evening set	6157 Aug 27 01:50	23° Mp 19'33	41.06200 433	minimum elong	6163 Sep 21 01:58	1° £ 58'05	4~1/'41
max. Earth dist.	6157 Sep 09 15:05	23° II) 41'17	41.26300 AU	morning rise	6163 Oct 06 13:10	2° £ 24'06	
	(150 G	220=- 1=	1054115	retrograde	6164 Jan 02 02:54	3° £ 50′26	40.42:
conjunction	6157 Sep 12 01:23	23° m 45'14		opposition	6164 Mar 22 00:34	2° £ 41'37	
minimum elong	6157 Sep 12 01:20	23° m) 45'14	1°56'46	min. Earth dist.	6164 Mar 24 07:53		37.63616 AU
morning rise	6157 Sep 28 01:03	24° m 10'56		direct	6164 Jun 10 21:18	1° Ω 31'47	
retrograde	6157 Dec 23 22:57	25° m/32'28		evening set	6164 Sep 06 11:19	2° £ 58′20	
opposition	6158 Mar 14 10:15	24° m/25'35		max. Earth dist.	6164 Sep 19 04:00	3° £ 19'48	39.50401 AU
min. Earth dist.	6158 Mar 16 14:34	24° m 22'43	39.13880 AU				

conjunction	6164 Sep 21 19:47	3° £ 24'21 ∠	4°41'45	evening set	6171 Sep 19 16:05	13° ≏ 40'16	
minimum elong	6164 Sep 21 19:38		4°41'45	max. Earth dist.	6171 Sep 30 18:39		37.68239 AU
morning rise	6164 Oct 07 03:46	3° ⊆ 50'22		max. Butti dist.	0171 Sep 30 10.37	11 -0011	37.00237110
retrograde	6165 Jan 02 20:48	5° ⊆ 17'40		conjunction	6171 Oct 03 16:20	14° ≏ 05'31	7°33'23
opposition	6165 Mar 23 16:43		5°09'31	minimum elong	6171 Oct 03 16:05	14° ≏ 05'30	7°33'24
min. Earth dist.	6165 Mar 26 01:35	4° ⊆ 05'17 3		morning rise	6171 Oct 17 15:33	14° ⊆ 30'43	7 33 24
direct	6165 Jun 12 11:47	2° £ 58'19	7.30237 110	retrograde	6172 Jan 14 20:46	16° ⊆ 06'08	
evening set	6165 Sep 08 09:07	4° £ 25'56		opposition	6172 Apr 03 00:06	14° ⊆ 54'18	8°11'45
max. Earth dist.	6165 Sep 20 22:26	4° £ 47'21 3	0 24815 ATT	min. Earth dist.	6172 Apr 05 13:37		35.56988 AU
max. Lattii dist.	0103 Sep 20 22.20	4 = 4/21 3	19.24013 AU	direct	6172 Jun 22 13:12	13° £ 41'01	33.30988 AU
:	(165 9 22 14-20	49 0 51156	E005150				
conjunction	6165 Sep 23 14:20		5°05'58	evening set	6172 Sep 20 20:30	15° Ω 17'43	27 42157 ATT
minimum elong	6165 Sep 23 14:10		5°05'59	max. Earth dist.	6172 Oct 01 17:29	15-223/2/	37.42157 AU
morning rise	6165 Oct 08 18:36	5° £ 17'55			(170.0 . 04.14.0 (1500 10111	70.5010.4
retrograde	6166 Jan 04 14:20	6° £ 46'15	5005110	conjunction	6172 Oct 04 14:36	15° Ω 42'44	7°58'04
opposition	6166 Mar 25 09:18		5°35'12	minimum elong	6172 Oct 04 14:22	15° Ω 42'42	7°58'04
min. Earth dist.	6166 Mar 27 18:52	5° £ 33'27 3	57.12702 AU	morning rise	6172 Oct 18 07:16	16° ♀ 07'40	
direct	6166 Jun 14 03:00	4° ≙ 26'09		retrograde	6173 Jan 15 18:22	17° ≏ 44'31	
evening set	6166 Sep 10 08:02	5° £ 54'54		opposition	6173 Apr 04 20:42	16° ≏ 32'16	
max. Earth dist.	6166 Sep 22 15:41	6° ≏ 16'05 3	88.99030 AU	min. Earth dist.	6173 Apr 07 10:21	16° ≏ 28'34	35.31205 AU
				direct	6173 Jun 24 07:25	15° ≏ 18'33	
conjunction	6166 Sep 25 09:18	6° £ 20′50 5	5°30'20	evening set	6173 Sep 23 02:20	16° ≙ 56'48	
minimum elong	6166 Sep 25 09:08	6° £ 20′50 5	5°30'20	max. Earth dist.	6173 Oct 03 15:56	17° ≏ 16′10	37.16264 AU
morning rise	6166 Oct 10 09:52	6° ≏ 46'46					
retrograde	6167 Jan 06 11:20	8° ≙ 16'09		conjunction	6173 Oct 06 13:31	17° ≏ 21'31	8°22'42
opposition	6167 Mar 27 02:25	7° ≙ 06'18 €	6°01'03	minimum elong	6173 Oct 06 13:14	17° ≗ 21'30	8°22'42
min. Earth dist.	6167 Mar 29 12:43	7° ჲ 02'56 3	6.86958 AU	morning rise	6173 Oct 19 23:28	17° ≏ 46'12	
direct	6167 Jun 15 17:38	5° £ 55'16		retrograde	6174 Jan 17 19:39	19° ≏ 24'30	
evening set	6167 Sep 12 07:44	7° £ 25'12		opposition	6174 Apr 06 17:43	18° ≏ 11'53	9°04'10
max. Earth dist.	6167 Sep 24 10:11	7° £ 46'12 3	8.73035 AU	min. Earth dist.	6174 Apr 09 07:03		35.05639 AU
				direct	6174 Jun 26 03:03	16° ♀ 57'42	
conjunction	6167 Sep 27 04:54	7° £ 51'04 5	5°54'48	evening set	6174 Sep 25 09:16	18° ⊆ 37'36	
minimum elong	6167 Sep 27 04:43		5°54'49	max. Earth dist.	6174 Oct 05 15:11		36.90562 AU
morning rise	6167 Oct 12 01:04	8° £ 16'54	3 3447	max. Earth dist.	0174 001 03 13.11	10 = 30 33	30.70302 110
retrograde	6168 Jan 08 07:55	9° - 47′24		conjunction	6174 Oct 08 13:17	19° ≏ 02'01	8°47'15
opposition	6168 Mar 27 20:08		6°27'01	minimum elong	6174 Oct 08 13:17 6174 Oct 08 13:01	19° ⊆ 02'00	8°47'16
min. Earth dist.		8° £ 33'42 3		Č		19° £ 26'22	8 4/10
	6168 Mar 30 07:53	8 ≗ 33 42 3 7° £ 25'42	00.01040 AU	morning rise	6174 Oct 21 15:52		
direct	6168 Jun 16 11:04			retrograde	6175 Jan 19 21:28	21° Ω 06'14	0020116
evening set	6168 Sep 13 08:23	8° £ 56'52	0.46005.477	opposition	6175 Apr 08 15:39	19° £ 53'14	9°30'16
max. Earth dist.	6168 Sep 25 05:56	9° ≙ 17'41 3	88.46905 AU	min. Earth dist.	6175 Apr 11 06:00		34.80269 AU
				direct	6175 Jun 27 23:58	18° ≏ 38'38	
conjunction	6168 Sep 28 00:57		6°19'21	evening set	6175 Sep 27 17:30	20° Ω 20'16	
minimum elong	6168 Sep 28 00:45		6°19'22	max. Earth dist.	6175 Oct 07 16:02	20° ≏ 38'51	36.65052 AU
morning rise	6168 Oct 12 16:30	9° ≏ 48'21					
retrograde	6169 Jan 09 06:21	11° ≏ 19'59		conjunction	6175 Oct 10 13:39	20° ≏ 44'19	9°11'41
opposition	6169 Mar 29 14:15	10° ≏ 09'21 €	6°53'07	minimum elong	6175 Oct 10 13:21	20° ≏ 44'18	9°11'42
min. Earth dist.	6169 Apr 01 01:45	10° ≙ 05'53 3	6.35024 AU	morning rise	6175 Oct 23 08:21	21° ≏ 08'17	
direct	6169 Jun 18 06:13	8° ≙ 57'27		retrograde	6176 Jan 22 00:04	22° ≏ 49'47	
evening set	6169 Sep 15 09:51	10° ≏ 29'54		opposition	6176 Apr 09 14:06	21° ≏ 36′25	9°56'14
max. Earth dist.	6169 Sep 27 00:45	10° ≏ 50'25 3	8.20680 AU	min. Earth dist.	6176 Apr 12 03:43	21° ≏ 32'39	34.55078 AU
				direct	6176 Jun 28 23:08	20° ₽ 21′23	
conjunction	6169 Sep 29 21:25	10° ≙ 55'31 €	6°44'00	evening set	6176 Sep 29 03:00	22° ₽ 04'50	
minimum elong	6169 Sep 29 21:12	10° ≙ 55'30 €	6°44'01	max. Earth dist.	6176 Oct 08 15:51	22° ≗ 22'51	36.39680 AU
morning rise	6169 Oct 14 08:00	11° ≏ 21'06					
retrograde	6170 Jan 11 03:09	12° ≙ 53'57		conjunction	6176 Oct 11 14:46	22° ≏ 28'28	9°35'59
opposition	6170 Mar 31 09:03	11° ≏ 42'55	7°19'17	minimum elong	6176 Oct 11 14:28	22° ≏ 28'27	9°36'00
min. Earth dist.	6170 Apr 02 22:12	11° ≏ 39'19 3		morning rise	6176 Oct 24 01:11	22° ჲ 52'02	
direct	6170 Jun 20 00:10	10° ഫ 30'33		retrograde	6177 Jan 23 02:13	24° ≏ 35'13	
evening set	6170 Sep 17 12:24	12° ⊆ 04'21		opposition	6177 Apr 11 13:26	23° £ 21′28	10°22'05
max. Earth dist.	6170 Sep 17 12:24 6170 Sep 28 22:28	12° - 0421 12° - 24'41 3	7 94434 ATT	min. Earth dist.	6177 Apr 14 04:24		34.30023 AU
man. Darm Wist.	3170 Sep 20 22.20	12 -2771 3	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	direct	6177 Jun 30 20:45	23° ⊆ 1733	54.50025 AU
conjunction	6170 Oct 01 19:40	12° ≏ 29'48 7	7°08'41				
conjunction	6170 Oct 01 18:40			evening set	6177 Oct 01 13:44	23° Ω 51'20	26 14412 417
minimum elong	6170 Oct 01 18:27		7°08'41	max. Earth dist.	6177 Oct 10 18:27	∠4 ≃ 08′32	36.14413 AU
morning rise	6170 Oct 15 23:38	12° £ 55'13			(177.0 + 12.16.42	240 0 1 4120	1000000
retrograde	6171 Jan 12 22:36	14° £ 29'18	70.4512.0	conjunction	6177 Oct 13 16:42	24° Ω 14'30	10°00'06
opposition	6171 Apr 02 04:11	13° £ 17'52 7		minimum elong	6177 Oct 13 16:22	24° Ω 14'29	10°00'07
min. Earth dist.	6171 Apr 04 17:01	13° £ 14'16 3	5.82922 AU	morning rise	6177 Oct 25 18:03	24° Ω 37'35	
direct	6171 Jun 21 20:14	12° ≏ 05′03		retrograde	6178 Jan 25 04:06	26° £ 22'32	

opposition	6178 Apr 13 13:30	25° ≏ 08'24	10°47'44	direct	6184 Jul 13 06:22	5°M09'37	
min. Earth dist.	6178 Apr 16 04:14	25° £ 04'30	34.05053 AU	evening set	6184 Oct 18 10:05	7° ™ 10'25	
direct	6178 Jul 02 21:30	23° م 52'29		max. Earth dist.	6184 Oct 24 04:33	7°M22'14	34.41888 AU
evening set	6178 Oct 04 02:05	25° ≏ 39'46					
max. Earth dist.	6178 Oct 12 19:33	25° ≏ 56'35	35.89224 AU	conjunction	6184 Oct 27 03:14	7°M28'18	12°40'30
				minimum elong	6184 Oct 27 02:53	7°M28'16	12°40'32
conjunction	6178 Oct 15 19:23	26° ≙ 02'24	10°24'01	morning rise	6184 Nov 04 19:01	7° M 46'05	
minimum elong	6178 Oct 15 19:05	26° ჲ 02′23	10°24'02	retrograde	6185 Feb 07 19:43	9° M 45'37	
morning rise	6178 Oct 27 11:22	26° £ 24'56		opposition	6185 Apr 26 11:09	8°M28'25	13°38'12
retrograde	6179 Jan 27 08:15	28° ≙ 11'44		min. Earth dist.	6185 Apr 29 01:56	8°M24'20	32.35445 AU
opposition	6179 Apr 15 14:12	26° ≏ 57'11	11°13'11	direct	6185 Jul 15 12:35	7° M 09'01	
min. Earth dist.	6179 Apr 18 05:42	26° ≏ 53'13	33.80180 AU	evening set	6185 Oct 21 09:05	9° ™ 12'27	
direct	6179 Jul 04 19:41	25° ≏ 40'47		max. Earth dist.	6185 Oct 26 11:55	9°M23'03	34.18616 AU
evening set	6179 Oct 06 15:42	27° ≏ 30′06					
max. Earth dist.	6179 Oct 14 23:26	27° ≏ 46'18	35.64120 AU	conjunction	6185 Oct 29 11:05	9° M 29′13	13°01'30
				minimum elong	6185 Oct 29 10:42	9° M 29'11	13°01'31
conjunction	6179 Oct 17 22:59	27° ≙ 52'08	10°47'42	morning rise	6185 Nov 06 11:54	9° M 45′52	
minimum elong	6179 Oct 17 22:38	27° ≙ 52'07	10°47'43	retrograde	6186 Feb 10 04:38	11° M 47'56	
morning rise	6179 Oct 29 04:38	28° ≙ 14'05		opposition	6186 Apr 28 17:28	10°M30'19	14°00'27
	6180 Jan 15 22:31	0°M		min. Earth dist.	6186 May 01 08:11	10°M26'13	32.12740 AU
retrograde	6180 Jan 29 09:55	0° ™ 02'47		direct	6186 Jul 17 16:49	9° ™ 10′28	
	6180 Feb 12 01:41	30° Ŗ Ω		evening set	6186 Oct 24 10:16	11°M16'42	
opposition	6180 Apr 16 15:53		11°38'22	max. Earth dist.	6186 Oct 28 22:30	11° M 26'07	33.95882 AU
min. Earth dist.	6180 Apr 19 07:46		33.55410 AU				
direct	6180 Jul 05 19:59	27° ≏ 30'56		conjunction	6186 Oct 31 20:00	11°M32'12	13°21'49
evening set	6180 Oct 08 06:41	29° ≏ 22'20		minimum elong	6186 Oct 31 19:39	11°M32'10	13°21'50
max. Earth dist.	6180 Oct 16 02:56	29° ≙ 37'45	35.39156 AU	morning rise	6186 Nov 08 04:27	11° M 47'37	
		_		retrograde	6187 Feb 12 12:40	13°M52'19	
conjunction	6180 Oct 19 02:58		11°11'04	opposition	6187 May 01 00:39	12°M34'20	14°21'57
minimum elong	6180 Oct 19 02:38	29° ≙ 43'41	11°11'06	min. Earth dist.	6187 May 03 14:39		31.90575 AU
	6180 Oct 27 08:56	0°M		direct	6187 Jul 19 22:48	11°M14'03	
morning rise	6180 Oct 29 21:54	0°M04'59		evening set	6187 Oct 27 13:41	13°M23'15	
retrograde	6181 Jan 30 15:13	1°M55'40		max. Earth dist.	6187 Oct 31 08:04	13°M31'13	33.73714 AU
opposition	6181 Apr 18 18:09		12°03'13		(107)	120 W 2 E 121	12041122
min. Earth dist.	6181 Apr 21 09:42		33.30816 AU	conjunction	6187 Nov 03 05:34	13°M37'21	13°41'22
	6181 May 16 14:27	30° ₹ Ω		minimum elong	6187 Nov 03 05:11	13°M37'19	13°41'24
direct	6181 Jul 07 20:50	29° Ω 22'51		morning rise	6187 Nov 09 20:23	13°M51'21	
	6181 Aug 27 23:58	0°M			6187 Dec 14 16:57	15°M	
evening set	6181 Oct 10 23:06	1°M.16'27	25 14250 ATT	retrograde	6188 Feb 15 00:29	15°M58'53	
max. Earth dist.	6181 Oct 18 07:39	1°11631'04	35.14370 AU	• • •	6188 Apr 20 00:00	15°RM 140 m 40122	1.40.4212.0
	(101.0 + 21.07.50	10 M 27105	1102407	opposition	6188 May 02 08:41	14°M40'33	14°42'38
conjunction	6181 Oct 21 07:58		11°34'06	min. Earth dist.	6188 May 04 21:44 6188 Jul 21 03:59		31.68970 AU
minimum elong	6181 Oct 21 07:37	1°M37'03 1°M57'37	11°34'08	direct		13°M19'52 15°M	
morning rise	6181 Oct 31 15:20 6182 Feb 01 20:07	3°M50'23		evening set	6188 Oct 14 09:37 6188 Oct 29 19:38	15°M32'14	
retrograde opposition	6182 Apr 20 21:12	2°M34'30	12°27'43	max. Earth dist.	6188 Nov 01 19:42		33.52074 AU
min. Earth dist.	6182 Apr 23 13:45		33.06441 AU	max. Earth dist.	0100 NOV 01 19.42	סכ סכאוו כו	33.32074 AU
direct	6182 Jul 09 21:50	1°M16'36	33.00441 AU	conjunction	6188 Nov 04 15:59	15°M44'43	14°00'08
evening set	6182 Oct 13 17:17	3°M12'30		minimum elong	6188 Nov 04 15:38	15°M44'41	14°00'10
max. Earth dist.	6182 Oct 20 13:58		34.89852 AU	morning rise	6188 Nov 10 11:18	15°M57'08	1. 5515
max. Earth dist.	0102 001 20 13.30	3 1102010	31.07032710	retrograde	6189 Feb 16 10:10	18° M 07'41	
conjunction	6182 Oct 23 13:42	3°M32'18	11°56'44	opposition	6189 May 04 17:44	16°M49'01	15°02'27
minimum elong	6182 Oct 23 13:21	3°M32'16	11°56'46	min. Earth dist.	6189 May 07 06:56		31.47869 AU
morning rise	6182 Nov 02 08:43	3°M52'01	11 00 10	direct	6189 Jul 23 10:25	15°M27'56	31.1,003110
retrograde	6183 Feb 04 03:31	5°M46'55		evening set	6189 Nov 02 05:17	17°M43'43	
opposition				•			33 30048 ATT
min. Earth dist.	6183 Apr 23 00:59	4°MJ30'35	12°51'45	max. Earth dist.	6189 Nov 04 07:44	17°ML48'15	33.303 4 0 AU
direct	6183 Apr 23 00:59 6183 Apr 25 16:27		12°51'45 32.82369 AU	max. Earth dist.	6189 Nov 04 07:44	17° M .48'15	33.30946 AU
	6183 Apr 23 00:59 6183 Apr 25 16:27 6183 Jul 12 02:24				6189 Nov 04 07:44 6189 Nov 07 03:21	17°M48'15 17°M54'20	14°18'01
	6183 Apr 25 16:27	4°M26'31		max. Earth dist. conjunction minimum elong			
evening set max. Earth dist.	6183 Apr 25 16:27 6183 Jul 12 02:24 6183 Oct 16 12:46	4°M26'31 3°M12'10 5°M10'27	32.82369 AU	conjunction minimum elong	6189 Nov 07 03:21	17° M 54'20	14°18'01
evening set	6183 Apr 25 16:27 6183 Jul 12 02:24	4°M26'31 3°M12'10 5°M10'27		conjunction	6189 Nov 07 03:21 6189 Nov 07 02:59	17° M 54'20 17° M 54'18	14°18'01
evening set	6183 Apr 25 16:27 6183 Jul 12 02:24 6183 Oct 16 12:46	4°M26'31 3°M12'10 5°M10'27	32.82369 AU	conjunction minimum elong morning rise	6189 Nov 07 03:21 6189 Nov 07 02:59 6189 Nov 12 00:30	17°M54'20 17°M54'18 18°M04'53	14°18'01
evening set max. Earth dist.	6183 Apr 25 16:27 6183 Jul 12 02:24 6183 Oct 16 12:46 6183 Oct 22 19:40	4°M26'31 3°M12'10 5°M10'27 5°M23'13	32.82369 AU 34.65656 AU	conjunction minimum elong morning rise retrograde	6189 Nov 07 03:21 6189 Nov 07 02:59 6189 Nov 12 00:30 6190 Feb 18 23:10	17°M54'20 17°M54'18 18°M04'53 20°M18'42 18°M59'41	14°18'01 14°18'03
evening set max. Earth dist.	6183 Apr 25 16:27 6183 Jul 12 02:24 6183 Oct 16 12:46 6183 Oct 22 19:40 6183 Oct 25 20:02	4°M26'31 3°M12'10 5°M10'27 5°M23'13 5°M29'21	32.82369 AU 34.65656 AU 12°18'53	conjunction minimum elong morning rise retrograde opposition	6189 Nov 07 03:21 6189 Nov 07 02:59 6189 Nov 12 00:30 6190 Feb 18 23:10 6190 May 07 03:25	17°M54'20 17°M54'18 18°M04'53 20°M18'42 18°M59'41	14°18'01 14°18'03 15°21'19
evening set max. Earth dist. conjunction minimum elong	6183 Apr 25 16:27 6183 Jul 12 02:24 6183 Oct 16 12:46 6183 Oct 22 19:40 6183 Oct 25 20:02 6183 Oct 25 19:40	4°M26'31 3°M12'10 5°M10'27 5°M23'13 5°M29'21 5°M29'19	32.82369 AU 34.65656 AU 12°18'53	conjunction minimum elong morning rise retrograde opposition min. Earth dist.	6189 Nov 07 03:21 6189 Nov 07 02:59 6189 Nov 12 00:30 6190 Feb 18 23:10 6190 May 07 03:25 6190 May 09 15:21	17°M.54'20 17°M.54'18 18°M.04'53 20°M.18'42 18°M.59'41 18°M.55'40	14°18'01 14°18'03 15°21'19
evening set max. Earth dist. conjunction minimum elong morning rise	6183 Apr 25 16:27 6183 Jul 12 02:24 6183 Oct 16 12:46 6183 Oct 22 19:40 6183 Oct 25 20:02 6183 Oct 25 19:40 6183 Nov 04 01:58	4°M26'31 3°M12'10 5°M10'27 5°M23'13 5°M29'21 5°M29'19 5°M48'09	32.82369 AU 34.65656 AU 12°18'53 12°18'55	conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct	6189 Nov 07 03:21 6189 Nov 07 02:59 6189 Nov 12 00:30 6190 Feb 18 23:10 6190 May 07 03:25 6190 May 09 15:21 6190 Jul 25 20:17	17°M54'20 17°M54'18 18°M04'53 20°M18'42 18°M59'41 18°M55'40 17°M38'12 19°M57'51	14°18'01 14°18'03 15°21'19
evening set max. Earth dist. conjunction minimum elong morning rise retrograde	6183 Apr 25 16:27 6183 Jul 12 02:24 6183 Oct 16 12:46 6183 Oct 22 19:40 6183 Oct 25 20:02 6183 Oct 25 19:40 6183 Nov 04 01:58 6184 Feb 06 11:44	4°M26'31 3°M12'10 5°M10'27 5°M23'13 5°M29'21 5°M29'19 5°M48'09 7°M45'19 6°M28'32	32.82369 AU 34.65656 AU 12°18'53 12°18'55	conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct evening set	6189 Nov 07 03:21 6189 Nov 07 02:59 6189 Nov 12 00:30 6190 Feb 18 23:10 6190 May 07 03:25 6190 May 09 15:21 6190 Jul 25 20:17 6190 Nov 05 20:04	17°M54'20 17°M54'18 18°M04'53 20°M18'42 18°M59'41 18°M55'40 17°M38'12 19°M57'51	14°18'01 14°18'03 15°21'19 31.27260 AU

. ,.	(1003) 00 15 41	200M 04100	1.402.4150	1.	(100 4 12 04 42	(0. 7 1110 2	
conjunction	6190 Nov 09 15:41	20°M06'09	14°34'59	direct	6198 Aug 13 04:43	6° ₹ 11'02	
minimum elong	6190 Nov 09 15:22	20°M06'08	14°35'01	max. Earth dist.	6198 Nov 26 11:31	8° × ⁴44′08	31.67437 AU
morning rise	6190 Nov 13 10:33	20°M₁4′25				_	
retrograde	6191 Feb 21 11:49	22°M31'54		conjunction	6198 Nov 28 19:34	8° ≯ 149'34	16°08'20
opposition	6191 May 09 14:18	21°M12'32	15°39'11	minimum elong	6198 Nov 28 19:25	8° ҂ ¹49'33	16°08'22
min. Earth dist.	6191 May 12 02:46	21°ML08'28	31.07122 AU	retrograde	6199 Mar 12 20:28	11° ∡ 724'41	
direct	6191 Jul 28 05:15	19°M50'39		opposition	6199 May 28 09:17	10° ∡ ¹02'40	17°15'37
evening set	6191 Nov 09 21:19	22°M15'02		min. Earth dist.	6199 May 30 10:49	9° ₹ ′59′12	29.68783 AU
max. Earth dist.	6191 Nov 09 10:42	22°M14'03	32.90143 AU	direct	6199 Aug 15 21:23	8° ∡ ³37'49	
				max. Earth dist.	6199 Nov 29 08:09	11° √ 12'12	31.53419 AU
conjunction	6191 Nov 12 04:41	22°M20'06	14°50'57				
minimum elong	6191 Nov 12 04:21	22°M20'04	14°50'59	conjunction	6199 Dec 01 13:49	11° ∡ 17'25	16°13'29
morning rise	6191 Nov 14 11:20	22°M25'07	11 3037	minimum elong	6199 Dec 01 13:40	11° х 17'25	16°13'32
retrograde	6192 Feb 24 02:19	24°M47'11		retrograde	6200 Mar 15 14:07	13°×753'30	10 13 32
•		23°M27'11	15°55'57	•		12° 🗷 33'30	17°20'31
opposition	6192 May 11 01:55			opposition	6200 May 31 03:05		
min. Earth dist.	6192 May 13 12:42		30.87475 AU	min. Earth dist.	6200 Jun 02 03:41		29.55357 AU
direct	6192 Jul 29 17:18	22°M05'10		direct	6200 Aug 18 12:26	11° ∡ 706′12	
max. Earth dist.	6192 Nov 11 00:23	24° M 29'59	32.70510 AU	max. Earth dist.	6200 Dec 02 05:27	13° ∡ ⁴41'47	31.40423 AU
conjunction	6192 Nov 13 18:30	24°M36'05	15°05'52	conjunction	6200 Dec 04 08:36	13° ∡ ¹46'47	16°16'57
minimum elong	6192 Nov 13 18:12	24°M36'04	15°05'54	minimum elong	6200 Dec 04 08:31	13° ∡ ¹46'47	16°16'59
retrograde	6193 Feb 25 18:05	27° M 04'29		retrograde	6201 Mar 18 09:10	16° ∡ ¹23'45	
opposition	6193 May 13 14:22	25°M44'24	16°11'34	opposition	6201 Jun 02 21:13	15° ∡ 01'20	17°23'35
min. Earth dist.	6193 May 16 01:16	25°M40'23	30.68370 AU	min. Earth dist.	6201 Jun 04 18:55	14° ∡ ¹58'07	29.42900 AU
direct	6193 Aug 01 05:01	24°M21'41		direct	6201 Aug 21 07:31	13° ∡ ³36′04	
max. Earth dist.	6193 Nov 13 17:07	26°ML48'03	32.51459 AU	max. Earth dist.	6201 Dec 05 02:27	16° ∡ 12'43	31.28398 AU
conjunction	6193 Nov 16 09:07	26°M54'01	15°19'37	conjunction	6201 Dec 07 03:58	16° ∡ 17'35	16°18'41
minimum elong	6193 Nov 16 08:49	26°M53'59	15°19'39	minimum elong	6201 Dec 07 03:53	16° х 17'35	16°18'44
retrograde	6194 Feb 28 09:06	29°M23'39	15 1757	retrograde	6202 Mar 21 04:22	18° 🖈 17 33	10 10 44
•		28°ML03'13	16°25'56	opposition	6202 Jun 05 16:15	17° × 33'21'	17°24'47
opposition	6194 May 16 03:38						
min. Earth dist.	6194 May 18 13:02	27°M59'17	30.49842 AU	min. Earth dist.	6202 Jun 07 13:02		29.31381 AU
direct	6194 Aug 03 19:33	26°M₊40′06		direct	6202 Aug 24 01:23	16° ₹ 07'20	
max. Earth dist.	6194 Nov 16 08:29	29° 11 L07'47	32.33040 AU	max. Earth dist.	6202 Dec 08 01:13	18° ≯ '45'04	31.17333 AU
conjunction	6194 Nov 19 00:20	29° ™ 13'47	15°32'10	conjunction	6202 Dec 09 23:46	18° ₰ ⁴49'40	16°18'41
minimum elong	6194 Nov 19 00:05	29° M ₁3'46	15°32'12	minimum elong	6202 Dec 09 23:45	18° ₹ ¹49'40	16°18'43
	6194 Dec 09 19:04	0° ∡ ″		retrograde	6203 Mar 24 00:27	21° 渘 ¹28′08	
retrograde	6195 Mar 03 01:08	1° ∡ ′44'37		opposition	6203 Jun 08 11:45	20° ₹ 05'26	17°24'06
opposition	6195 May 18 17:37	0° ∡ ¹23'49	16°38'56	min. Earth dist.	6203 Jun 10 05:49	20° ∡ 02'28	29.20768 AU
min. Earth dist.	6195 May 21 02:20	0° ∡ 19'56	30.31982 AU	direct	6203 Aug 26 21:59	18° ∡ ³39'50	
	6195 Jun 02 08:51	30°RM₀		max. Earth dist.	6203 Dec 10 22:41	21° ₹ 18'24	31.07204 AU
direct	6195 Aug 06 08:24	29°ML00'19					
	6195 Oct 07 11:17	0° ∡ ¹		conjunction	6203 Dec 12 19:55	21° ₹ 22'53	16°16'54
max. Earth dist.	6195 Nov 19 03:00		32.15339 AU	minimum elong	6203 Dec 12 19:54	21°×22'53	16°16'57
max. Earth dist.	01/3 1101 17 03.00	1 7 27 30	32.13337710	retrograde	6204 Mar 25 21:16	24° × ⁷ 01'59	10 1037
conjunction	6195 Nov 21 16:20	1° ∡ ³35′18	15°43'23	opposition	6204 Jun 10 07:51	22°× 7 39'08	17°21'29
		1° x 35 16		min. Earth dist.	6204 Jun 12 00:32		29.11080 AU
minimum elong	6195 Nov 21 16:04		15°43'26				29.11080 AU
retrograde	6196 Mar 04 16:53	4° ∡ *07'17	1.005010.1	direct	6204 Aug 28 16:58	21° 🖈 13'24	20.00021 177
opposition	6196 May 20 08:31	2° ∡ ¹46'08		max. Earth dist.	6204 Dec 12 22:35	23° × '52'53	30.98031 AU
min. Earth dist.	6196 May 22 15:53		30.14857 AU				
direct	6196 Aug 07 23:13	1° ∡ ¹22'15		conjunction	6204 Dec 14 16:23	23° ≯ 57'03	16°13'19
max. Earth dist.	6196 Nov 20 20:12	3° ∡ 52'42	31.98453 AU	minimum elong	6204 Dec 14 16:27	23° ₹ 57'04	16°13'21
				retrograde	6205 Mar 28 17:50	26° ∡ ³36'40	
conjunction	6196 Nov 23 08:38	3° ₹ ′58′28	15°53'13	opposition	6205 Jun 13 04:19	25° ҂ 13'41	17°16'55
minimum elong	6196 Nov 23 08:25	3° ∡ ¹58'27	15°53'15	min. Earth dist.	6205 Jun 14 18:42	25° х 10′59	29.02300 AU
retrograde	6197 Mar 07 10:47	6° ∡ 31'33		direct	6205 Aug 31 15:24	23° ∡ ¹47'51	
opposition	6197 May 23 00:02	5° ∡ 10'05	17°00'32	max. Earth dist.	6205 Dec 15 20:30		30.89815 AU
min. Earth dist.	6197 May 25 05:25		29.98574 AU		20.50		
direct	6197 Aug 10 13:35	3° ∡ ¹45′50	27.75571710	conjunction	6205 Dec 17 13:06	26° ₹ 31'59	16°07'55
max. Earth dist.	6197 Nov 23 16:01		31.82454 AU	minimum elong	6205 Dec 17 13:10	26° ₹ 32'00	16°07'58
man. Darm Wist.	517/ 110V 23 10.01	U A 1/40	51.02757 AU	_	6206 Mar 31 14:50	20 × 32 00 29° × 12'00	10 0/ 50
a a minus - ti	6107 N 26 01 52	60.700114	16901124	retrograde			17010122
conjunction	6197 Nov 26 01:52		16°01'34	opposition	6206 Jun 16 01:00	27° 🖈 48'55	17°10'22
minimum elong	6197 Nov 26 01:39	6° 🗷 23'13	16°01'36	min. Earth dist.	6206 Jun 17 13:16		28.94475 AU
retrograde	6198 Mar 10 01:54	8° ∡ 157'22		direct	6206 Sep 03 12:10	26° ₹ 22'59	
opposition	6198 May 25 16:19	7° ∡ ¹35'36	17°08'56	max. Earth dist.	6206 Dec 18 21:08	29° ∡ 03'47	30.82596 AU
min. Earth dist.	6198 May 27 20:36	7° ∡ ³31'57	29.83191 AU				

conjunction	6206 Dec 20 10:07	29° ∡ 107'29	16°00'41	retrograde	6214 Apr 21 06:00	19° る 57'17	
minimum elong	6206 Dec 20 10:14	29°×707'30	16°00'43	opposition	6214 Jul 07 03:41	19 3 3717	15°06'41
minimum elong			10 00 43	**			
	6207 Jan 11 14:44	0°る		min. Earth dist.	6214 Jul 07 17:24		28.71880 AU
retrograde	6207 Apr 03 11:01	1° る 47'48		direct	6214 Sep 24 18:14	17° る 08'44	
opposition	6207 Jun 18 22:11	0° る 24'37		evening set	6215 Jan 04 10:35	19° る 38'12	
min. Earth dist.	6207 Jun 20 08:24	0°る22'12	28.87624 AU				
	6207 Jul 03 14:35	30°₹ ҂		conjunction	6215 Jan 10 05:47	19° る 52'08	13°57'03
direct	6207 Sep 06 10:19	28° ≯ 58'36		minimum elong	6215 Jan 10 06:08	19° る 52'10	13°57'05
	6207 Nov 06 21:08	0°రె		max. Earth dist.	6215 Jan 09 16:48	19° る 50'50	30.66682 AU
max. Earth dist.	6207 Dec 21 19:32	1°₹39'48	30.76423 AU	morning rise	6215 Jan 16 01:19	20° පි 06'06	
				retrograde	6215 Apr 24 00:50	22° る 31'23	
conjunction	6207 Dec 23 06:50	1° る 43'21	15°51'36	opposition	6215 Jul 10 00:51	21° る 08'33	14°42'48
minimum elong	6207 Dec 23 06:59	1°る43'22	15°51'39	min. Earth dist.	6215 Jul 10 10:13		28.74384 AU
•			13 31 39				20.74304 AU
retrograde	6208 Apr 05 09:07	4° る 23'51		direct	6215 Sep 27 14:34	19° る 43'11	
opposition	6208 Jun 20 19:25	3° ප 00'36	16°51'19	evening set	6216 Jan 06 07:44	22° る 09'53	
min. Earth dist.	6208 Jun 22 02:34		28.81827 AU				
direct	6208 Sep 08 08:14	1° る 34'31		conjunction	6216 Jan 13 01:08	22° る 25'59	13°33'57
max. Earth dist.	6208 Dec 23 20:21	4° ප 16'13	30.71350 AU	minimum elong	6216 Jan 13 01:31	22° පි 26'01	13°34'00
				max. Earth dist.	6216 Jan 12 15:57	22° る 25'04	30.70076 AU
conjunction	6208 Dec 25 03:48	4° る 19'23	15°40'40	morning rise	6216 Jan 19 18:44	22° る 42'07	
minimum elong	6208 Dec 25 04:00	4° ਰ 19'24	15°40'42	retrograde	6216 Apr 25 18:56	25° る 04'43	
retrograde	6209 Apr 08 03:49	6° ප 59'58		opposition	6216 Jul 11 21:43	23° る 42'02	14°17'17
opposition	6209 Jun 23 16:45	5° ප 36'40	16°38'47	min. Earth dist.	6216 Jul 12 06:08		28.77951 AU
* *							26.77931 AU
min. Earth dist.	6209 Jun 24 22:05		28.77132 AU	direct	6216 Sep 29 13:57	22°₹16'54	
direct	6209 Sep 11 05:50	4° ට 10'33		evening set	6217 Jan 07 06:44	24° る 40'58	
max. Earth dist.	6209 Dec 26 19:28	6° ℃ 52'30	30.67458 AU				
				conjunction	6217 Jan 14 20:09	24°る59'00	13°09'24
conjunction	6209 Dec 28 00:33	6° る 55'25	15°27'52	minimum elong	6217 Jan 14 20:31	24°る59'02	13°09'26
minimum elong	6209 Dec 28 00:46	6° る 55'27	15°27'55	max. Earth dist.	6217 Jan 14 12:51	24° පි 58'16	30.74526 AU
retrograde	6210 Apr 11 00:42	9° ප 36'00		morning rise	6217 Jan 22 09:46	25° る 17'03	
opposition	6210 Jun 26 14:10	8° ප 12'40	16°24'14	retrograde	6217 Apr 28 13:55	27° る 37'06	
min. Earth dist.	6210 Jun 27 15:41	8°る10'52	28.73620 AU	opposition	6217 Jul 14 18:06	26° る 14'35	13°50'16
direct	6210 Sep 14 04:24	6° る 46'35		min. Earth dist.	6217 Jul 14 23:42	26°る14'12	28.82564 AU
	v=-v = v p			direct	6217 Oct 02 10:39	24° る 49'40	
conjunction	6210 Dec 30 21:14	9° ට 31'21	15°13'14	evening set	6218 Jan 09 07:07	27° る 11'13	
minimum elong	6210 Dec 30 21:14	9° る 31'23	15°13'15	evening set	0210 Jan 07 07.07	27 01113	
2					(210 I 17 14-52	270=20150	12042120
max. Earth dist.	6210 Dec 29 19:58	9° る 28'49	30.64791 AU	conjunction	6218 Jan 17 14:52	27° る 30'59	12°43'30
retrograde	6211 Apr 13 20:17	12° ろ 11'50		minimum elong	6218 Jan 17 15:15	27° ප 31'01	12°43'32
opposition	6211 Jun 29 11:47	10° ರ 48'32		max. Earth dist.	6218 Jan 17 11:19		30.80005 AU
min. Earth dist.	6211 Jun 30 11:13		28.71339 AU	morning rise	6218 Jan 25 22:32	27° る 50'46	
direct	6211 Sep 17 00:50	9° る 22'30			6218 Apr 09 14:14	0° ≈	
evening set	6212 Jan 01 09:58	12° る 03'53		retrograde	6218 May 01 06:55	0°≈08'22	
					6218 May 23 12:11	30°Rる	
conjunction	6212 Jan 02 17:42	12° る 07'05	14°56'46	opposition	6218 Jul 17 14:19	28°る46'02	13°21'48
minimum elong	6212 Jan 02 17:59	12° る 07'07	14°56'49	min. Earth dist.	6218 Jul 17 17:42	28° ⋜ 45'48	28.88165 AU
max. Earth dist.	6212 Jan 01 19:28	12°る04'51	30.63415 AU	direct	6218 Oct 05 08:32	27°る21'22	
morning rise	6212 Jan 04 02:00	12°る10'20		evening set	6219 Jan 11 08:17	29° ප් 40'26	
retrograde	6212 Apr 15 16:02	14°る47'23		evening sec	6219 Jan 19 14:50	0°≈	
opposition	6212 Apr 13 10:02 6212 Jul 01 09:09	14 34723 13° る 24'09	150/0112		021/ Jan 1/ 14.JU	· ~	
**	6212 Jul 02 04:28		28.70312 AU		(210 1 20 00 4)	0001146	12017110
min. Earth dist.			28.70312 AU	conjunction	6219 Jan 20 08:46	0°≈01'46	12°16'19
direct	6212 Sep 18 23:13	11° る 58'15		minimum elong	6219 Jan 20 09:09	0°≈01'49	12°16'20
evening set	6213 Jan 01 03:34	14° る 34'15		max. Earth dist.	6219 Jan 20 06:54		30.86480 AU
				morning rise	6219 Jan 29 09:18	0° ≈ 23'07	
conjunction	6213 Jan 04 13:57	14° る 42'32	14°38'32	retrograde	6219 May 04 01:50	2° ≈ 38'22	
minimum elong	6213 Jan 04 14:15	14° ⋜ 42'34	14°38'34	opposition	6219 Jul 20 10:04	1°≈16′13	12°52'02
max. Earth dist.	6213 Jan 03 18:58	14° る 40'37	30.63299 AU	min. Earth dist.	6219 Jul 20 10:03	1° ≈ 16'13	28.94764 AU
morning rise	6213 Jan 08 00:48	14° る 50'52			6219 Sep 15 18:12	30°₹₹	
retrograde	6213 Apr 18 10:28	17° る 22'34		direct	6219 Oct 08 06:28	29° る 51'46	
opposition	6213 Jul 04 06:34	15° る 59'27	15°28'51		6219 Oct 30 10:33	0°≈	
min. Earth dist.	6213 Jul 04 00:54		28.70512 AU	evening set	6220 Jan 13 10:06	2°≈08'27	
direct	6213 Sep 21 20:10	13 3 3814 14° る 33'42	20.,0012 AU	oronnig sot	0220 Juli 13 10.00	2 ~~UU 2/	
	-			aaniv	6000 I 02 00 00	2021112	11047157
evening set	6214 Jan 02 16:23	17° る 06'11		conjunction	6220 Jan 23 02:20	2°≈31'13	11°47'56
				minimum elong	6220 Jan 23 02:44	2°≈31'15	11°47'59
conjunction	6214 Jan 07 10:01	17° る 17'36		max. Earth dist.	6220 Jan 23 04:21		30.93945 AU
minimum elong	6214 Jan 07 10:21	17° る 17'38	14°18'39	morning rise	6220 Feb 01 18:18	2°≈53'58	
max. Earth dist.	6214 Jan 06 18:27		30.64412 AU	retrograde	6220 May 05 17:01	5° ≈ 06'57	
morning rise	6214 Jan 12 04:04	17° る 29'02		opposition	6220 Jul 22 05:18	3° ≈ 44'58	12°21'01

min. Earth dist. direct evening set	6220 Jul 22 03:31 6220 Oct 10 03:31 6221 Jan 14 12:26	3°≈45'05 2°≈20'47 4°≈35'07	29.02349 AU	conjunction minimum elong max. Earth dist. morning rise	6227 Feb 08 09:18 6227 Feb 08 09:37 6227 Feb 09 07:38 6227 Feb 21 10:20	19°≈13'04 19°≈13'06 19°≈15'11 19°≈42'27	8°03'37 8°03'38 31.75284 AU
conjunction	6221 Jan 24 19:03	4°≈59'10	11°18'28	retrograde	6227 May 22 15:27	21°≈41'42	
minimum elong	6221 Jan 24 19:26	4°≈59'12	11°18'29	min. Earth dist.	6227 Aug 08 04:55		29.84819 AU
max. Earth dist.	6221 Jan 24 22:58		31.02414 AU	opposition	6227 Aug 09 03:09	20° ≈ 21'36	8°17'44
morning rise	6221 Feb 04 01:30	5° ≈ 23'12		direct	6227 Oct 28 09:17	18° ≈ 59'50	
retrograde	6221 May 08 09:53	7° ≈ 33'58		evening set	6228 Jan 28 11:18	20°≈59'52	
opposition	6221 Jul 24 23:52	6°≈12'11	11°48'52	•			
min. Earth dist.	6221 Jul 24 18:15	6°≈12'34	29.10948 AU	conjunction	6228 Feb 10 21:13	21° ≈ 29'51	7°29'03
direct	6221 Oct 13 00:11	4° ≈ 48'14		minimum elong	6228 Feb 10 21:32	21° ≈ 29'53	7°29'05
evening set	6222 Jan 16 15:00	7° ≈ 00'18		max. Earth dist.	6228 Feb 11 21:07	21° ≈ 32'06	31.90837 AU
				morning rise	6228 Feb 24 06:37	21°≈59'46	
conjunction	6222 Jan 27 11:12	7° ≈ 25'32	10°47'59	retrograde	6228 May 24 04:18	23° ≈ 57'24	
minimum elong	6222 Jan 27 11:36	7° ≈ 25'34	10°48'01	opposition	6228 Aug 10 17:20	22° ≈ 37'37	7°40'31
max. Earth dist.	6222 Jan 27 18:54	7° ≈ 26'17	31.11899 AU	min. Earth dist.	6228 Aug 09 16:13	22° ≈ 39'17	30.00496 AU
morning rise	6222 Feb 07 06:59	7° ≈ 50'43		direct	6228 Oct 29 23:18	21° ≈ 16′17	
retrograde	6222 May 11 00:16	9° ≈ 59'21		evening set	6229 Jan 29 15:05	23° ≈ 14'34	
opposition	6222 Jul 27 18:02	8° ≈ 37'46	11°15'41				
min. Earth dist.	6222 Jul 27 10:29	8° ≈ 38'17	29.20598 AU	conjunction	6229 Feb 12 08:38	23° ≈ 45′01	6°54'09
direct	6222 Oct 15 19:43	7° ≈ 14'07		minimum elong	6229 Feb 12 08:55	23° ≈ 45′03	6°54'10
evening set	6223 Jan 18 18:00	9° ≈ 23'59		max. Earth dist.	6229 Feb 13 11:46	23° ≈ 47'33	32.07177 AU
				morning rise	6229 Feb 26 01:18	24° ≈ 15′25	
conjunction	6223 Jan 30 02:35	9° ≈ 50'15	10°16'35	retrograde	6229 May 26 13:49	26° ≈ 11′27	
minimum elong	6223 Jan 30 02:57	9° ≈ 50'17	10°16'36	min. Earth dist.	6229 Aug 12 04:31	24°≈53'45	30.16924 AU
max. Earth dist.	6223 Jan 30 12:45	9° ≈ 51'14	31.22462 AU	opposition	6229 Aug 13 07:02	24° ≈ 52′01	7°03'02
morning rise	6223 Feb 10 10:46	10° ≈ 16′28		direct	6229 Nov 01 13:49	23° ≈ 31′06	
retrograde	6223 May 13 15:14	12° ≈ 23'04		evening set	6230 Jan 31 19:06	25° ≈ 27'42	
opposition	6223 Jul 30 11:30	11° ≈ 01'43	10°41'33				
min. Earth dist.	6223 Jul 29 23:53	11° ≈ 02'30	29.31340 AU	conjunction	6230 Feb 14 19:10	25° ≈ 58'32	6°19'02
direct	6223 Oct 18 15:16	9° ≈ 38′23		minimum elong	6230 Feb 14 19:26	25° ≈ 58'33	6°19'03
evening set	6224 Jan 20 20:59	11° ≈ 46′07		max. Earth dist.	6230 Feb 15 23:24	26° ≈ 01'08	32.24218 AU
				morning rise	6230 Feb 28 18:38	26° ≈ 29'18	
conjunction	6224 Feb 01 17:13	12° ≈ 13'19	9°44'20	retrograde	6230 May 29 01:38	28° ≈ 23'49	
minimum elong	6224 Feb 01 17:36	12° ≈ 13′21	9°44'22	opposition	6230 Aug 15 19:56	27° ≈ 04'43	6°25'21
max. Earth dist.	6224 Feb 02 06:43		31.34109 AU	min. Earth dist.	6230 Aug 14 14:17		30.34049 AU
morning rise	6224 Feb 13 12:58	12° ≈ 40′29		direct	6230 Nov 04 04:35	25° ≈ 44'12	
retrograde	6224 May 15 03:27	14° ≈ 45'07		evening set	6231 Feb 02 23:01	27° ≈ 39'10	
opposition	6224 Aug 01 04:28		10°06'34				
min. Earth dist.	6224 Jul 31 14:39		29.43187 AU	conjunction	6231 Feb 17 05:11	28°≈10'19	
direct	6224 Oct 20 08:12	12°≈01'04		minimum elong	6231 Feb 17 05:25	28°≈10'21	5°43'46
evening set	6225 Jan 22 00:23	14° ≈ 06'46		max. Earth dist.	6231 Feb 18 12:24		32.41900 AU
. ,.	(225 F. L. 02 07 10	1.402.4140	0011122	morning rise	6231 Mar 03 10:29	28°≈41'24	
conjunction	6225 Feb 03 07:19	14°≈34'48	9°11'22		6231 Apr 14 19:34	0°) {	
minimum elong	6225 Feb 03 07:39	14°≈34'50	9°11'23	retrograde	6231 May 31 11:06	0°) 34′27 30° R ≈	
max. Earth dist.	6225 Feb 03 23:47	14°≈36 23 15°≈	31.46843 AU	min Earth diat	6231 Jul 19 02:57 6231 Aug 17 01:36		30.51816 AU
morning rise	6225 Feb 14 07:57 6225 Feb 15 13:37	15 ≈ 15°≈02'48		min. Earth dist. opposition	6231 Aug 17 01:36 6231 Aug 18 08:20	29 ≈1739 29°≈15'40	
retrograde	6225 May 17 15:42	17°≈05'33		direct	6231 Nov 06 19:16	29 ≈15 40 27°≈55'33	3 47 34
opposition	6225 Aug 03 20:29	17 ≈ 03 33	9°30'52	evening set	6232 Feb 05 02:55	27 ≈3333 29°≈48'56	
min. Earth dist.	6225 Aug 03 03:18		29.56086 AU	evening set	6232 Feb 10 06:32	0° ∀	
iiiii. Lattii dist.	6225 Sep 02 04:44	15°R≈	27.50000 AC		0232100 10 00.32	0 /	
direct	6225 Oct 23 01:46	14°≈22'12		conjunction	6232 Feb 19 14:18	0° ¥ 20'19	5°08'23
ancet	6225 Dec 10 19:24	15°≈		minimum elong	6232 Feb 19 14:30	0° X 20'20	
evening set	6226 Jan 24 03:56	16°≈25'56		max. Earth dist.	6232 Feb 20 22:40		32.60189 AU
e venning see	0220 0411 21 03.00	10 10 20 00		morning rise	6232 Mar 05 00:58	0° ¥ 51'38	32.00107110
conjunction	6226 Feb 05 20:40	16° ≈ 54'43	8°37'45	retrograde	6232 Jun 01 20:01	2°) (43'16	
minimum elong	6226 Feb 05 21:00	16°≈54'45		min. Earth dist.	6232 Aug 18 10:05		30.70182 AU
max. Earth dist.	6226 Feb 06 15:37		31.60586 AU	opposition	6232 Aug 19 19:46	1° ∺ 24'47	5°09'46
morning rise	6226 Feb 18 12:53	17°≈23'27		direct	6232 Nov 08 09:09	0°) €05'02	
retrograde	6226 May 20 04:32	19° ≈ 24'25		evening set	6233 Feb 06 06:45	1° ¥ 56'54	
opposition	6226 Aug 06 12:09	18°≈03'58	8°54'33	<i>5</i>			
min. Earth dist.	6226 Aug 05 16:22		29.69997 AU	conjunction	6233 Feb 20 22:45	2°) €28'27	4°33'01
direct	6226 Oct 25 16:06	16° ≈ 41'47		minimum elong	6233 Feb 20 22:56	2°) €28′28	4°33'02
evening set	6227 Jan 26 07:27	18° ≈ 43'39		max. Earth dist.	6233 Feb 22 09:25	2°) 31′35	32.79041 AU
				morning rise	6233 Mar 07 14:01	2° ∺ 59'56	

retrograde	6233 Jun 04 01:48	4°) 50′12		minimum elong	6240 Mar 06 12:55	16° ¥ 33'59	0°30'18
min. Earth dist.	6233 Aug 20 19:38		30.89152 AU	max. Earth dist.	6240 Mar 08 13:37		34.28211 AU
			4°32'00		6240 Mar 21 19:39	10 X 38 08 17° X 05'04	34.28211 AU
opposition	6233 Aug 22 06:29		4-32.00	morning rise			
direct	6233 Nov 10 21:06	2° 升 12'38		retrograde	6240 Jun 17 10:45	18°) (47'43	22 20 20 1 1 1
evening set	6234 Feb 08 10:27	4°) €03'02		min. Earth dist.	6240 Sep 03 12:56		32.39728 AU
	(22451 22 0 0 25	10)(0,011	2055142	opposition	6240 Sep 05 13:46	17°) € 31'46	0°14′26
conjunction	6234 Feb 23 06:27		3°57'43	direct	6240 Nov 25 10:31	16°) 15′11	
minimum elong	6234 Feb 23 06:37	4°) (34'42		desc. node	6241 Feb 02 15:34	17°) €22'01	
max. Earth dist.	6234 Feb 24 19:02		32.98492 AU	evening set	6241 Feb 21 08:31	17° ∺ 57'18	
morning rise	6234 Mar 10 01:38	5° ₩ 06'16					
retrograde	6234 Jun 06 07:14	6° ¥ 55'13		conjunction	6241 Mar 08 15:46	18° ∺ 28′12	
min. Earth dist.	6234 Aug 23 03:09		31.08741 AU	minimum elong	6241 Mar 08 15:46	18° ¥ 28′12	0°03'09
opposition	6234 Aug 24 16:30	5° ₩ 37'19	3°54'22	behind sun begin	6241 Mar 08 09:26	18°) 27'41	
direct	6234 Nov 13 09:52	4°) (18′18		behind sun end	6241 Mar 08 22:07	18°) €28'42	
evening set	6235 Feb 10 13:56	6°)(07'17		max. Earth dist.	6241 Mar 10 17:23	18°) (32′24	34.51639 AU
				morning rise	6241 Mar 23 22:34	18°) √ 59'03	
conjunction	6235 Feb 25 13:08	6°) 38′59	3°22'32	retrograde	6241 Jun 19 13:02	20°) 40′52	
minimum elong	6235 Feb 25 13:16	6°) 38′59	3°22'32	min. Earth dist.	6241 Sep 05 15:55	19° ¥ 28′23	32.63317 AU
max. Earth dist.	6235 Feb 27 03:36	6°){ 42′24	33.18551 AU	opposition	6241 Sep 07 18:50	19°) €25'16	-0°20'44
morning rise	6235 Mar 12 11:46	7°) 10′36		direct	6241 Nov 27 17:48	18°) €09'06	
retrograde	6235 Jun 08 13:06	8° 升 58′20		evening set	6242 Feb 23 11:21	19° ¥ 50'18	
min. Earth dist.	6235 Aug 25 10:16	7°) 43′14	31.29006 AU				
opposition	6235 Aug 27 01:52	7°){ 40'43	3°16'55	conjunction	6242 Mar 10 18:03	20°) € 20'55	-0°35'59
direct	6235 Nov 15 18:57	6°) 22'04		minimum elong	6242 Mar 10 18:02	20°) €20'55	
evening set	6236 Feb 12 17:17	8°) €09'44		max. Earth dist.	6242 Mar 12 20:59		34.75377 AU
e venning see	0250100 12 17.17	0 7(0)		morning rise	6242 Mar 26 00:30	20°) 51'31	3,03,, 110
conjunction	6236 Feb 27 19:20	8°) (41′24	2°47'31	retrograde	6242 Jun 21 14:00	22°) 32'33	
minimum elong	6236 Feb 27 19:27	8°) (41'24		min. Earth dist.	6242 Sep 07 19:42		32.87223 AU
max. Earth dist.	6236 Feb 29 12:37		33.39274 AU	opposition	6242 Sep 07 13:42 6242 Sep 09 23:35	21° X 17'18	
morning rise	6236 Mar 13 20:34	9° ∺ 13′01	33.39274 AU	direct	6242 Nov 29 22:47	20°\(\frac{1}{1}\)133	-0 33 24
•	6236 Jun 09 16:25	10° H 59'35			6242 Nov 29 22.47 6243 Feb 25 13:50	20 X 01 33 21° X 41'51	
retrograde			31.49941 AU	evening set	0243 Feb 25 15:50	21° π 41'31	
min. Earth dist.	6236 Aug 26 16:54				(242 M 12 10 45	220 1 2110	1000124
opposition	6236 Aug 28 10:18	9°) (42'17	2°39'43	conjunction	6243 Mar 12 19:45	22°) 12'10	
direct	6236 Nov 17 05:24	8°) €24'01		minimum elong	6243 Mar 12 19:43	22°) 12'10	
evening set	6237 Feb 13 20:40	10° 升 10′25		max. Earth dist.	6243 Mar 15 00:15		34.99377 AU
				morning rise	6243 Mar 28 01:13	22°) (42'27	
conjunction	6237 Mar 01 00:42		2°12'44	retrograde	6243 Jun 23 13:15	24°) €22'45	
minimum elong	6237 Mar 01 00:47		2°12'44	min. Earth dist.	6243 Sep 09 22:41		33.11355 AU
max. Earth dist.	6237 Mar 02 19:02		33.60646 AU	opposition	6243 Sep 12 03:36	23°) €07'50	-1°29'29
morning rise	6237 Mar 16 04:16	11° ∺ 13'35		direct	6243 Dec 02 04:45	21° 米 52'29	
retrograde	6237 Jun 11 22:28	12° ∺ 59'04		evening set	6244 Feb 27 16:26	23° ∺ 31'57	
min. Earth dist.	6237 Aug 28 21:52		31.71545 AU				
opposition	6237 Aug 30 18:07	11°) (42′05	2°02'48	conjunction	6244 Mar 13 20:52	24°) €01'55	
direct	6237 Nov 19 12:04	10°) 24′13		minimum elong	6244 Mar 13 20:48	24°) €01'55	1°40'17
evening set	6238 Feb 15 23:42	12°) €09'27		max. Earth dist.	6244 Mar 16 01:37	24°) €06'18	35.23561 AU
				morning rise	6244 Mar 29 01:13	24°) €31'53	
conjunction	6238 Mar 03 05:27	12°) 40′57	1°38'14	retrograde	6244 Jun 24 14:44	26° ∺ 11'29	
minimum elong	6238 Mar 03 05:31	12°) 40′57	1°38'15	min. Earth dist.	6244 Sep 11 00:16	25° ∺ 00′10	33.35688 AU
max. Earth dist.	6238 Mar 05 02:47	12°) 44′53	33.82636 AU	opposition	6244 Sep 13 06:50	24°) 56′53	-2°02'59
morning rise	6238 Mar 18 10:27	13° ¥ 12′23		direct	6244 Dec 03 06:59	23°) 41′54	
retrograde	6238 Jun 14 01:48	14°) € 56'53		evening set	6245 Feb 28 18:40	25°) €20'34	
min. Earth dist.	6238 Aug 31 04:08	13°) 43′03	31.93753 AU				
opposition	6238 Sep 02 01:23	13°) 40′13	1°26'15	conjunction	6245 Mar 15 21:31	25° ¥ 50'11	-2°11'39
direct	6238 Nov 21 19:43	12°) 22'47		minimum elong	6245 Mar 15 21:27	25° ¥ 50'10	2°11'40
evening set	6239 Feb 18 02:49	14° ₩ 06'55		max. Earth dist.	6245 Mar 18 04:10	25°) 54'41	35.47912 AU
				morning rise	6245 Mar 31 00:01	26°) 19'47	
conjunction	6239 Mar 05 09:28	14°) €38'15	1°04'04	retrograde	6245 Jun 26 13:56	27°) 58'42	
minimum elong	6239 Mar 05 09:31		1°04'05	min. Earth dist.	6245 Sep 13 02:54		33.60186 AU
max. Earth dist.	6239 Mar 07 07:40		34.05185 AU	opposition	6245 Sep 15 09:36	26°) (44'25	
morning rise	6239 Mar 20 15:42	15°) (09'32	2 100 110	direct	6245 Dec 05 11:05	25°) 29'47	_ 20 23
retrograde	6239 Jun 16 07:10	15 X 09 32 16° X 53'04		evening set	6246 Mar 02 20:42	27°) (07'42	
min. Earth dist.	6239 Sep 02 07:40		32.16510 AU	evening set	02-10 Mai 02 20.42	21 10142	
opposition	6239 Sep 02 07:49		0°50'07	conjunction	6246 Mar 17 21:15	27° ₩ 36'54	-2°42'28
direct	6239 Nov 24 03:17	13 X 30 40 14° X 19'45	0 3007	minimum elong	6246 Mar 17 21:10	27 X 36 34 27° X 36 54	
evening set	6240 Feb 20 05:39	14° ★ 1943 16° 米 02'51		max. Earth dist.	6246 Mar 20 03:55		35.72427 AU
evening set	0240170 20 03.39	10 /(0231				28°\(\frac{41}{22}\)	33.12421 AU
aaniumatian	6240 Mar 06 12:54	160¥22150	0020110	morning rise	6246 Apr 01 21:47	28° X 06'06 29° X 44'25	
conjunction	6240 Mar 06 12:54	16° ∺ 33'59	0 30 10	retrograde	6246 Jun 28 15:28	27 π 44 23	

,			<i>C</i> (,,		, 10	
min. Earth dist.	6246 Sep 15 02:48	28°) 33'47	33.84887 AU	conjunction	6253 Mar 29 04:44	9° Y ′24'58	-6°01'07
opposition	6246 Sep 17 11:40	28°) € 30′24		minimum elong	6253 Mar 29 04:33	9° Y ′24'57	
direct	6246 Dec 07 12:47	27°) 16′07		max. Earth dist.	6253 Mar 31 19:00		37.50553 AU
evening set	6247 Mar 04 22:27	28° ¥ 53'19		morning rise	6253 Apr 12 04:47	9° Y ′50'52	
· ·				retrograde	6253 Jul 09 20:25	11° Y ′26′00	
conjunction	6247 Mar 19 20:33	29°) 22'07	-3°12'42	min. Earth dist.	6253 Sep 26 17:29	10° Y 17'51	35.64672 AU
minimum elong	6247 Mar 19 20:27	29°) 22'06	3°12'42	opposition	6253 Sep 29 09:56	10° Y 14′09	
max. Earth dist.	6247 Mar 22 05:21	29°) €26'43	35.97145 AU	direct	6253 Dec 19 14:31	9° Y ′02'27	
morning rise	6247 Apr 03 18:32	29° ∺ 50'54		evening set	6254 Mar 17 05:23	10° Ƴ 35'57	
	6247 Apr 08 14:50	$0^{\circ}\mathbf{\Upsilon}$		•			
retrograde	6247 Jun 30 15:05	1° Y 28'37		conjunction	6254 Mar 31 00:27	11° Y 01'18	-6°26'57
min. Earth dist.	6247 Sep 17 04:03	0° Υ 18'16	34.09839 AU	minimum elong	6254 Mar 31 00:16	11° Y '01'17	6°26'58
opposition	6247 Sep 19 13:11	0° Υ 14'53	-3°39'46	max. Earth dist.	6254 Apr 02 16:08	11° Y ′06'13	37.76579 AU
	6247 Sep 30 01:49	30° ₹ ₩		morning rise	6254 Apr 13 19:44	11° Y ′26'41	
direct	6247 Dec 09 14:06	29° ₩ 00'57		retrograde	6254 Jul 11 16:29	13° Y 01'31	
	6248 Feb 13 21:36	$0^{\circ}\mathbf{\Upsilon}$		min. Earth dist.	6254 Sep 28 15:50	11° Y 53'37	35.90870 AU
evening set	6248 Mar 05 23:58	0° Ƴ 37'29		opposition	6254 Oct 01 07:51	11° Y '49'58	-7°01'55
Ü				direct	6254 Dec 21 12:04	10° Ƴ 38'38	
conjunction	6248 Mar 20 19:11	1° Y 05'50	-3°42'20	evening set	6255 Mar 19 05:50	12° Y 11'45	
minimum elong	6248 Mar 20 19:03	1° Y 05'49	3°42'20	C			
max. Earth dist.	6248 Mar 23 04:39	1° Υ 10'27	36.22126 AU	conjunction	6255 Apr 01 19:53	12° Y '36'32	-6°52'10
morning rise	6248 Apr 04 14:20	1° Y 34'11		minimum elong	6255 Apr 01 19:41	12° Y '36'32	6°52'11
retrograde	6248 Jul 01 12:16	3° Υ 11'21		max. Earth dist.	6255 Apr 04 11:36		38.02568 AU
min. Earth dist.	6248 Sep 18 02:42		34.35064 AU	morning rise	6255 Apr 15 10:07	13° Y ′01′22	
opposition	6248 Sep 20 13:56	1° Ƴ 57'55	-4°10'43	retrograde	6255 Jul 13 11:16	14° Y 35'55	
direct	6248 Dec 10 17:20	0° Ƴ 44'21		min. Earth dist.	6255 Sep 30 12:01		36.16992 AU
evening set	6249 Mar 08 01:23	2° Υ 20'16		opposition	6255 Oct 03 05:02	13° Y °24'40	
				direct	6255 Dec 23 11:27	12° Y 13'39	
conjunction	6249 Mar 22 17:16	2° Ƴ 48'09	-4°11'21	evening set	6256 Mar 20 06:08	13° Y '46'25	
minimum elong	6249 Mar 22 17:08	2° Ƴ 48'09		C			
max. Earth dist.	6249 Mar 25 04:03		36.47367 AU	conjunction	6256 Apr 02 14:50	14° Y 10'39	-7°16'44
morning rise	6249 Apr 06 09:17	3° Υ 16'03		minimum elong	6256 Apr 02 14:38	14° Y 10′39	
retrograde	6249 Jul 03 09:08	4°Υ52'43		max. Earth dist.	6256 Apr 05 06:42		38.28437 AU
min. Earth dist.	6249 Sep 20 02:03	3° Ƴ 43'07	34.60582 AU	morning rise	6256 Apr 15 23:57	14° Ƴ 34'56	
opposition	6249 Sep 22 14:11	3° Ƴ 39'36		retrograde	6256 Jul 14 05:54	16° Y ′09'12	
direct	6249 Dec 12 19:08	2° Y 26'24		min. Earth dist.	6256 Oct 01 08:48		36.42992 AU
evening set	6250 Mar 10 02:29	4° Υ 01'45		opposition	6256 Oct 04 01:56	14° Y ′58'13	
<i>8</i> - 11				direct	6256 Dec 24 09:14	13° Y ′47'32	
conjunction	6250 Mar 24 14:55	4° Ƴ 29'10	-4°39'45	evening set	6257 Mar 22 06:09	15° Y 19'57	
minimum elong	6250 Mar 24 14:47	4° Υ 29'09		C			
max. Earth dist.	6250 Mar 27 03:12		36.72890 AU	conjunction	6257 Apr 04 09:28	15° Ƴ 43'37	-7°40'40
morning rise	6250 Apr 08 03:16	4°Υ56'35		minimum elong	6257 Apr 04 09:15	15° Y 43'36	7°40'42
retrograde	6250 Jul 05 04:24	6° Ƴ 32'49		max. Earth dist.	6257 Apr 07 02:03		38.54164 AU
min. Earth dist.	6250 Sep 22 00:44	5° Y 23'34	34.86354 AU	morning rise	6257 Apr 17 12:54	16° Y ′07'19	
opposition	6250 Sep 24 13:55	5° Υ 20'00		retrograde	6257 Jul 15 21:56	17° Ƴ 41'20	
direct	6250 Dec 14 21:12	4° Υ 07'10		min. Earth dist.	6257 Oct 03 05:16	16° Ƴ 34'17	36.68826 AU
evening set	6251 Mar 12 03:26	5° Ƴ 42'00		opposition	6257 Oct 05 22:15	16° Ƴ 30'37	-8°18'09
Ü				direct	6257 Dec 26 08:01	15° Y ′20′14	
conjunction	6251 Mar 26 11:50	6° Y 08'55	-5°07'31	evening set	6258 Mar 24 06:07	16° Y ′52′20	
minimum elong	6251 Mar 26 11:41	6° Ƴ 08'54		-			
max. Earth dist.	6251 Mar 29 00:30	6° Y 13'42	36.98632 AU	conjunction	6258 Apr 06 03:30	17° Y °15′24	-8°03'59
morning rise	6251 Apr 09 20:32	6° Ƴ 35'52		minimum elong	6258 Apr 06 03:18	17° Ƴ 15′23	
retrograde	6251 Jul 07 01:55	8° Υ 11'41		max. Earth dist.	6258 Apr 08 19:26	17° Ƴ 20'12	38.79737 AU
min. Earth dist.	6251 Sep 23 22:19	7° Y 02'51	35.12347 AU	morning rise	6258 Apr 19 01:21	17° Ƴ 38'31	
opposition	6251 Sep 26 13:10	6° Ƴ 59'12		retrograde	6258 Jul 17 15:57	19° Y 12'19	
direct	6251 Dec 16 19:36	5° Ƴ 46'45		min. Earth dist.	6258 Oct 05 00:05		36.94546 AU
evening set	6252 Mar 13 04:12	7° Y 21′06		opposition	6258 Oct 07 18:10	18° Y °01'50	
<i>8</i> - 11				direct	6258 Dec 28 03:48	16° Y ′51'43	
conjunction	6252 Mar 27 08:35	7° Ƴ 47'30	-5°34'38	evening set	6259 Mar 26 05:33	18° Y 23'30	
minimum elong	6252 Mar 27 08:25	7° Ƴ 47'30	5°34'38	C			
max. Earth dist.	6252 Mar 29 23:11		37.24545 AU	conjunction	6259 Apr 07 21:06	18° Ƴ 46'00	-8°26'40
morning rise	6252 Apr 10 12:59	8° Υ 13'56		minimum elong	6259 Apr 07 20:53	18° Y 45'59	
retrograde	6252 Jul 07 21:56	9° Υ 49'25		max. Earth dist.	6259 Apr 10 14:35		39.05204 AU
min. Earth dist.	6252 Sep 24 21:00		35.38473 AU	morning rise	6259 Apr 20 12:54	19° Υ 08'31	2.110
opposition	6252 Sep 27 11:45	8° Υ 37'14		retrograde	6259 Jul 19 09:23	20° Υ '42'07	
direct	6252 Dec 17 18:22	7° Υ 25'10	/	min. Earth dist.	6259 Oct 06 20:07		37.20182 AU
evening set	6252 Dec 17 18:22 6253 Mar 15 04:57	8° Υ 59'05		opposition	6259 Oct 00 20:07	19° Υ 31'52	
croming set	0200 Mai 10 04.0/	0 1 39 03		оррознин	0207 001 07 13.30	17 31 32) UJ JU

					(-)
direct	6259 Dec 29 23:23	18° Y ′22'02		6266 May 30 00:53	0° 8
evening set	6260 Mar 27 05:02	19° Ƴ 53'33	retrograde	6266 Jul 29 03:41	0° 8 43'32
				6266 Sep 30 02:16	30° ₹Ƴ
conjunction	6260 Apr 08 14:16	20° Y 15'27 -8°48'43	min. Earth dist.	6266 Oct 16 21:41	29° Ƴ 38'48 38.98627 AU
minimum elong	6260 Apr 08 14:04	20° Y 15'26 8°48'44	opposition	6266 Oct 19 17:27	29° Y 35′09 -11°30′22
max. Earth dist.	6260 Apr 11 07:19	20° Y 20′16 39.30618 A	.U direct	6267 Jan 09 02:41	28° Ƴ 27'28
morning rise	6260 Apr 20 23:52	20° Ƴ 37'22	evening set	6267 Apr 08 20:09	29° Ƴ 58′05
retrograde	6260 Jul 20 03:44	22° Ƴ 10'47		6267 Apr 09 23:25	0°႘
min. Earth dist.	6260 Oct 07 13:18	21° Υ 04'30 37.45790 A	.U		
opposition	6260 Oct 10 08:20	21° Y '00'47 -9°28'17	conjunction	6267 Apr 19 04:12	0° ႘ 15'38 -11°05'35
direct	6260 Dec 30 16:58	19° Ƴ 51'14	minimum elong	6267 Apr 19 03:59	0° 8 15'37 11°05'36
evening set	6261 Mar 29 04:14	21° Y 22'32	max. Earth dist.	6267 Apr 21 23:31	0° と 20'25 41.07277 AU
Č			morning rise	6267 Apr 29 12:31	0° 8 33'13
conjunction	6261 Apr 10 07:03	21° Y 43'49 -9°10'08	retrograde	6267 Jul 30 18:31	2° 8 06'16
minimum elong	6261 Apr 10 06:50	21° Υ 43'48 9°10'09	min. Earth dist.	6267 Oct 18 13:14	1° 8 01'50 39.23525 AU
max. Earth dist.	6261 Apr 13 01:07	21° Υ '48'40 39.56014 A		6267 Oct 21 09:38	0° 8 58'09 -11°48'29
morning rise	6261 Apr 22 10:17	22°Υ05'08	оррозион	6267 Dec 14 14:09	30°R Y
retrograde	6261 Jul 21 20:17	23° Υ 38'24	direct	6268 Jan 10 18:38	29° Υ 50'45
min. Earth dist.	6261 Oct 09 08:09	23° $\mathbf{\gamma}_{32'20}$ 37.71405 A	******	6268 Feb 06 14:48	0° 8
	6261 Oct 12 02:56	$22^{\circ}\Upsilon_{28'39} - 9^{\circ}50'18$		6268 Apr 09 18:33	1° 8 21'20
opposition		22 γ 28 39 -9 30 18 21° γ 19'24	evening set	0208 Apr 09 18.55	1 821 20
direct	6262 Jan 01 11:57			(2(0.4	10 420115 11020146
evening set	6262 Mar 31 03:09	22° Y 50'31	conjunction	6268 Apr 19 18:43	1° 8 38'15 -11°22'46
		••	minimum elong	6268 Apr 19 18:31	1° 8 38'14 11°22'48
conjunction	6262 Apr 11 23:22	23° Υ 11'12 -9°30'55	max. Earth dist.	6268 Apr 22 13:40	1° 8 42'58 41.31805 AU
minimum elong	6262 Apr 11 23:10	23° Υ 11'11 9°30'56	morning rise	6268 Apr 29 19:21	1° 8 55'11
max. Earth dist.	6262 Apr 14 18:01	23° Υ 16'04 39.81424 A	.U retrograde	6268 Jul 31 08:40	3° 8 28'15
morning rise	6262 Apr 23 19:51	23° Ƴ 31'54	min. Earth dist.	6268 Oct 19 05:54	2° 8 23'59 39.48107 AU
retrograde	6262 Jul 23 10:51	25° Y ′05′04	opposition	6268 Oct 22 01:30	2° 8 20'22 -12°06'01
min. Earth dist.	6262 Oct 11 01:20	23° Y 59'18 37.97011 A	.U direct	6269 Jan 11 11:15	1° 8 13'14
opposition	6262 Oct 13 20:59	23° Y 55'35 -10°11'37	evening set	6269 Apr 11 16:50	2° 8 43'48
direct	6263 Jan 03 07:59	22° Y 46'38			
evening set	6263 Apr 02 02:03	24° Y 17'36	conjunction	6269 Apr 21 09:04	3° 8 00'03 -11°39'24
			minimum elong	6269 Apr 21 08:52	3° 8 00'02 11°39'25
conjunction	6263 Apr 13 15:20	24° Y 37'40 -9°51'04	max. Earth dist.	6269 Apr 24 04:12	3° 8 04'46 41.56010 AU
minimum elong	6263 Apr 13 15:06	24° Y 37'39 9°51'05	morning rise	6269 May 01 01:28	3° 8 16'19
max. Earth dist.	6263 Apr 16 09:57	24° Υ 42'31 40.06811 A	.U retrograde	6269 Aug 01 19:45	4° 8 49'25
morning rise	6263 Apr 25 05:08	24° Ƴ 57'46	min. Earth dist.	6269 Oct 20 21:58	3° 8 45'20 39.72336 AU
retrograde	6263 Jul 25 03:07	26° Ƴ 30'51	opposition	6269 Oct 23 17:05	3° 8 41'45 -12°22'59
min. Earth dist.	6263 Oct 12 18:20	25° Υ 25'23 38.22599 A	11	6270 Jan 13 05:53	2° 8 34'52
opposition	6263 Oct 15 14:37	$25^{\circ}\Upsilon^{21'39} -10^{\circ}32'17$	evening set	6270 Apr 13 14:56	4° 8 05'24
direct	6264 Jan 05 01:42	24°Υ13'01	evening sec	02/071pi 13 11.30	. 30521
evening set	6264 Apr 03 00:41	25° Υ 43'52	conjunction	6270 Apr 22 22:46	4° 8 20'59 -11°55'30
evening set	0204 Apr 03 00.41	23 1 43 32	minimum elong	6270 Apr 22 22:35	4° 8 20'59 11°55'31
conjunction	6264 Apr 14 07:06	26° Υ 03'18 -10°10'36	max. Earth dist.	6270 Apr 25 16:48	4°825'36 41.79872 AU
minimum elong	6264 Apr 14 06:54	$26^{\circ}\Upsilon_{03'17}$ $10^{\circ}10'37$		6270 Apr 23 10:48 6270 May 02 07:01	4° 8 36'36
max. Earth dist.	•	26° Υ 08'13 40.32153 A	morning rise	•	4 3 3636 6° 8 09'44
	6264 Apr 17 02:54		•	6270 Aug 03 09:38	
morning rise	6264 Apr 25 13:45	26° Y 22'47	min. Earth dist.	6270 Oct 22 12:47	5° 8 05'51 39.96252 AU
retrograde	6264 Jul 25 17:02	27° Y 55'50	opposition	6270 Oct 25 08:21	5° 8 02'16 -12°39'22
min. Earth dist.	6264 Oct 13 12:05	26°Υ50'36 38.48095 A		6271 Jan 14 21:19	3° 8 55'36
opposition	6264 Oct 16 07:53	26° Y 46′54 -10°52′17	evening set	6271 Apr 15 12:52	5° 8 26'07
direct	6265 Jan 05 20:41	25° Y ′38′36			
evening set	6265 Apr 04 23:18	27° Ƴ 09'21	conjunction	6271 Apr 24 12:22	5° 8 41'02 -12°11'03
			minimum elong	6271 Apr 24 12:10	5° 8 41'01 12°11'04
conjunction	6265 Apr 15 22:19	27° Y 28'10 -10°29'31	max. Earth dist.	6271 Apr 27 07:16	5° 8 45'41 42.03442 AU
minimum elong	6265 Apr 15 22:06	27° Y 28′09 10°29′32	morning rise	6271 May 03 12:05	5° 8 55'58
max. Earth dist.	6265 Apr 18 17:14	27° Y 32'59 40.57381 A	.U retrograde	6271 Aug 04 22:11	7° と 29'09
morning rise	6265 Apr 26 21:47	27° Ƴ 47'01	min. Earth dist.	6271 Oct 24 04:43	6° 8 25′23 40.19897 AU
retrograde	6265 Jul 27 10:20	29° Y 20′03	opposition	6271 Oct 26 23:06	6° 8 21'52 -12°55'10
min. Earth dist.	6265 Oct 15 03:53	28° Υ 15'08 38.73459 A	.U direct	6272 Jan 16 13:53	5° 8 15'24
opposition	6265 Oct 18 00:45	28° Y 11'24 -11°11'38	evening set	6272 Apr 16 10:51	6° 8 45′56
direct	6266 Jan 07 11:59	27° Y ′03'25			
evening set	6266 Apr 06 21:44	28° Ƴ '34′05	conjunction	6272 Apr 25 01:32	7° 8 00'10 -12°26'03
-	-		minimum elong	6272 Apr 25 01:21	7° 8 00'09 12°26'05
conjunction	6266 Apr 17 13:26	28° Y 52'16 -10°47'50	max. Earth dist.	6272 Apr 27 19:32	7° 8 04'44 42.26783 AU
minimum elong	6266 Apr 17 13:14	28° Υ '52'15 10°47'52	morning rise	6272 May 03 16:28	7° 8 14'26
max. Earth dist.	6266 Apr 20 09:24	28° Υ '57'08 40.82441 A	•	6272 Aug 05 13:22	8° 8 47'40
morning rise	6266 Apr 28 05:29	29° Υ ′10'30	min. Earth dist.	6272 Oct 24 18:10	7° 8 44'07 40.43338 AU
			Lartii dibt.	22.2 30. 21 10.10	. 5

opposition	6272 Oct 27 13:29	7° 8 40'34	-13°10'24	evening set	6279 Apr 28 20:41	15° 8 44'00	
direct	6273 Jan 17 02:39	6° 8 34'19					
evening set	6273 Apr 18 08:33	8° 8 04'53		conjunction	6279 May 04 13:58	15° 8 53'08	-13°56'11
				minimum elong	6279 May 04 13:49	15° 8 53'08	13°56'12
conjunction	6273 Apr 26 14:17	8° 8 18'26	-12°40'31	max. Earth dist.	6279 May 07 07:53	_	43.85400 AU
minimum elong	6273 Apr 26 14:06	8° 8 18'25	12°40'32	morning rise	6279 May 10 07:15	16° 8 02'17	
max. Earth dist.	6273 Apr 29 08:48	8° 8 23'00	42.49939 AU	retrograde	6279 Aug 15 02:13	17° 8 36'54	
morning rise	6273 May 04 20:18	8° 8 32'00		min. Earth dist.	6279 Nov 03 16:11		42.02465 AU
retrograde	6273 Aug 07 03:37	10° 8 05'20		opposition	6279 Nov 06 10:04	16° 8 31'18	-14°41'25
min. Earth dist.	6273 Oct 26 09:02	9° 8 01'56	40.66624 AU	direct	6280 Jan 26 22:36	15° 8 26'41	
opposition	6273 Oct 29 03:42	8° 8 58'26	-13°25'03	evening set	6280 Apr 29 19:40	16° 8 58'34	
direct	6274 Jan 18 14:59	7° 8 52'24					
evening set	6274 Apr 20 06:23	9° 8 23'02		conjunction	6280 May 05 01:10	17° 8 06'53	-14°07'04
				minimum elong	6280 May 05 01:00	17° 8 06'53	14°07'06
conjunction	6274 Apr 28 02:56	9° 8 35'54	-12°54'25	max. Earth dist.	6280 May 07 18:03	17° 8 11'12	44.07010 AU
minimum elong	6274 Apr 28 02:45	9° 8 35'53	12°54'28	morning rise	6280 May 10 06:41	17° 8 15'12	
max. Earth dist.	6274 Apr 30 21:45	9° 8 40'27	42.72970 AU	retrograde	6280 Aug 15 13:49	18° 8 50'10	
morning rise	6274 May 05 23:33	9° 8 48'45		min. Earth dist.	6280 Nov 04 05:15	17° 8 48'06	42.24045 AU
retrograde	6274 Aug 08 13:59	11° 8 22'13		opposition	6280 Nov 06 22:20	17° 8 44'46	-14°52'22
min. Earth dist.	6274 Oct 27 22:22	10° 8 19'01	40.89767 AU	direct	6281 Jan 27 10:31	16° 8 40'23	
opposition	6274 Oct 30 17:27	10° 8 15'31	-13°39'08	evening set	6281 May 01 19:23	18° 8 12'38	
direct	6275 Jan 20 06:34	9° 8 09'42					
evening set	6275 Apr 22 04:06	10° 8 40'27		conjunction	6281 May 06 12:14	18° 8 20'05	-14°17'31
				minimum elong	6281 May 06 12:06	18° 8 20'05	14°17'33
conjunction	6275 Apr 29 15:05	10° 8 52'36	-13°07'48	max. Earth dist.	6281 May 09 05:21	18° 8 24'23	44.28212 AU
minimum elong	6275 Apr 29 14:55	10° 8 52'35	13°07'49	morning rise	6281 May 11 05:02	18° 8 27'32	
max. Earth dist.	6275 May 02 09:14	10° 8 57'06	42.95857 AU	retrograde	6281 Aug 16 21:27	20° 8 02'53	
morning rise	6275 May 07 02:18	11° 8 04'45		min. Earth dist.	6281 Nov 05 18:14	19° 8 00'57	42.45182 AU
retrograde	6275 Aug 10 01:20	12° 8 38'22		opposition	6281 Nov 08 10:17	18° 8 57'41	-15°02'52
min. Earth dist.	6275 Oct 29 11:39	11° 8 35'23	41.12770 AU	direct	6282 Jan 29 01:41	17° 8 53'30	
opposition	6275 Nov 01 06:59	11° 8 31'52	-13°52'39	evening set	6282 May 03 20:00	19° 8 26'11	
direct	6276 Jan 21 20:41	10° 8 26'18					
evening set	6276 Apr 23 01:56	11° 8 57'12		conjunction	6282 May 07 22:58	19° 8 32'41	-14°27'32
				minimum elong	6282 May 07 22:49	19° 8 32'40	14°27'34
conjunction	6276 Apr 30 03:14	12° 8 08'38	-13°20'39	max. Earth dist.	6282 May 10 14:20	19° 8 36'51	44.48993 AU
minimum elong	6276 Apr 30 03:03	12° 8 08'37	13°20'41	morning rise	6282 May 12 01:52	19° 8 39'11	
max. Earth dist.	6276 May 02 22:20	12° 8 13'10	43.18588 AU	retrograde	6282 Aug 18 08:39	21° 8 15'01	
morning rise	6276 May 07 04:33	12° 8 20'03		min. Earth dist.	6282 Nov 07 05:41	20° 8 13'15	42.65917 AU
retrograde	6276 Aug 10 11:37	13° 8 53'52		opposition	6282 Nov 09 21:55	20° 8 09'59	-15°12'54
min. Earth dist.	6276 Oct 30 01:42	12° 8 51'03	41.35580 AU	direct	6283 Jan 30 13:52	19° 8 05'59	
opposition	6276 Nov 01 20:05	12° 8 47'35	-14°05'38	evening set	6283 May 05 22:04	20° 8 39'12	
direct	6277 Jan 22 11:56	11° 8 42'16					
evening set	6277 Apr 24 23:59	13° 8 13'21		conjunction	6283 May 09 09:30	20° 8 44'39	-14°37'06
				minimum elong	6283 May 09 09:23	20° 8 44'39	14°37'09
conjunction	6277 May 01 14:59	13° 8 24'01	-13°32'59	morning rise	6283 May 12 20:50	20° 8 50'07	
minimum elong	6277 May 01 14:49	13° 8 24'01	13°33'00	max. Earth dist.	6283 May 12 01:17	20° 8 48'50	44.69384 AU
max. Earth dist.	6277 May 04 09:02	13° 8 28'28	43.41125 AU	retrograde	6283 Aug 19 20:10	22° 8 26'31	
morning rise	6277 May 08 06:04	13° 8 34'43		min. Earth dist.	6283 Nov 08 18:46		42.86282 AU
	6277 Jul 15 23:12	15° 8		opposition	6283 Nov 11 09:22	21° 8 21'39	-15°22'29
retrograde	6277 Aug 12 00:43	15° 8 08'46		direct	6284 Feb 01 01:51	20° 8 17'50	
	6277 Sep 08 14:20	15° ₹ 8		evening set	6284 May 07 02:53	21° 8 51'47	
min. Earth dist.	6277 Oct 31 13:46	14° 8 06'12	41.58176 AU				
opposition	6277 Nov 03 09:01	14° 8 02'43	-14°18'04	conjunction	6284 May 09 19:46	21° 8 56'00	-14°46'14
direct	6278 Jan 24 00:08	12° 8 57'38		minimum elong	6284 May 09 19:38	21° 8 55'59	14°46'16
evening set	6278 Apr 26 22:00	14° 8 28'56		morning rise	6284 May 12 12:29	22° 8 00'13	
				max. Earth dist.	6284 May 12 10:44		44.89452 AU
conjunction	6278 May 03 02:28	14° 8 38'51		retrograde	6284 Aug 20 06:49	23° 8 37'23	
minimum elong	6278 May 03 02:17	14° 8 38'50		min. Earth dist.	6284 Nov 09 05:07		43.06344 AU
max. Earth dist.	6278 May 05 21:01		43.63411 AU	opposition	6284 Nov 11 20:17	22° 8 32'41	-15°31'36
morning rise	6278 May 09 07:00	14° 8 48'47		direct	6285 Feb 01 11:32	21° 8 29'02	
	6278 May 16 08:18	15° 8		evening set	6285 May 09 14:17	23° 8 04'11	
retrograde	6278 Aug 13 14:05	16° 8 23'06					
min. Earth dist.	6278 Nov 02 03:58		41.80494 AU	conjunction	6285 May 11 05:43	23° 8 06'44	
opposition	6278 Nov 04 21:51	15° 8 17'16	-14°29'59	minimum elong	6285 May 11 05:36	23° 8 06'44	14°54'58
	6278 Nov 19 00:16	15° ₹ 8		morning rise	6285 May 12 20:59	23° 8 09'17	
direct	6279 Jan 25 11:43	14° 8 12'26		max. Earth dist.	6285 May 13 20:15		45.09246 AU
	6279 Mar 30 14:27	15° 8		retrograde	6285 Aug 21 17:52	24° 8 47'40	

min. Earth dist.	6285 Nov 10 16:50	23° 8 46'16 4:	13 26169 ATT	max. Earth dist.	6293 May 22 18:33	2°∏19'11	46.58127 AU
opposition	6285 Nov 13 07:15	23° 8 43'07 -1		retrograde	6293 Aug 30 16:12	3° ∏ 53'15	40.30127 110
direct	6286 Feb 02 20:26	22° 8 39'40	15 10 10	min. Earth dist.	6293 Nov 20 05:27		44.74568 AU
		0.,		opposition	6293 Nov 22 14:35	2° I I50'06	
conjunction	6286 May 12 15:29	24° 8 16'54 -1	15°03'10	direct	6294 Feb 12 07:18	1° Ⅱ 48'07	
minimum elong	6286 May 12 15:22	24° 8 16'54 1	15°03'12				
max. Earth dist.	6286 May 15 06:31	24° 8 20'58 4:	5.28827 AU	conjunction	6294 May 21 15:53	3° Ⅱ 22'06	-15°54'19
retrograde	6286 Aug 23 01:15	25° 8 57'24		minimum elong	6294 May 21 15:51	3° Ⅱ 22'06	15°54'21
min. Earth dist.	6286 Nov 12 03:47	24° 8 56'09 4	3.45763 AU	max. Earth dist.	6294 May 24 01:24	3° Ⅱ 25'42	46.74954 AU
opposition	6286 Nov 14 17:52	24° 8 53'02 -1	15°48'27	retrograde	6294 Sep 01 01:18	4° Ⅱ 59'30	
direct	6287 Feb 04 08:28	23° 8 49'45		min. Earth dist.	6294 Nov 21 14:23	3° Ⅱ 59'19	44.91231 AU
				opposition	6294 Nov 23 23:38	3° ∏ 56'30	-16°38'50
conjunction	6287 May 14 01:02	25° 8 26'33 -1	15°10'59	direct	6295 Feb 13 17:01	2° ∏ 54'38	
minimum elong	6287 May 14 00:56	25° 8 26'33 1	15°11'01				
max. Earth dist.	6287 May 16 14:53	25° 8 30'32 4:	5.48190 AU	conjunction	6295 May 23 00:16	4° Ⅱ 28'13	
retrograde	6287 Aug 24 10:10	27° 8 06'38		minimum elong	6295 May 23 00:12		15°59'06
min. Earth dist.	6287 Nov 13 13:47	26° 8 05'34 43		max. Earth dist.	6295 May 25 09:05		46.91302 AU
opposition	6287 Nov 16 04:08	26° 8 02'26 -1	15°56'11	retrograde	6295 Sep 02 11:42	6° Ⅱ 05'14	
direct	6288 Feb 05 19:22	24° 8 59'22		min. Earth dist.	6295 Nov 23 00:57		45.07452 AU
		a cal da mus		opposition	6295 Nov 25 08:26	5° Ⅱ 02'21	-16°43'27
conjunction	6288 May 14 10:30	26° 8 35'44 -1		direct	6296 Feb 15 00:48	4° Ⅱ 00'36	
minimum elong	6288 May 14 10:25	_	15°18'23		(20(1) 22 00 20	50 T 22110	1.600.010.0
max. Earth dist.	6288 May 17 01:00	26° 8 39'44 4:	5.6/328 AU	conjunction	6296 May 23 08:30	5° Ⅱ 33'48	
retrograde	6288 Aug 24 19:01	28° 8 15'25	12 04272 ATT	minimum elong	6296 May 23 08:29	5° Ⅱ 33'48	
min. Earth dist.	6288 Nov 14 01:18	27° 8 14'28 4: 27° 8 11'24 -1		max. Earth dist.	6296 May 25 17:02	7° П 10'26	47.07251 AU
opposition direct	6288 Nov 16 14:22 6289 Feb 06 08:02	26° 8 08'32	10 03 29	retrograde min. Earth dist.	6296 Sep 02 19:23 6296 Nov 23 09:46		45.23284 AU
direct	0289 Feb 00 08.02	20 008 32		opposition	6296 Nov 25 16:59	6° П 07'40	
conjunction	6289 May 15 19:37	27° 8 44'29 -1	15°25'18	direct	6297 Feb 15 08:23	5° Π 06'03	-10 4/42
minimum elong	6289 May 15 19:37	27° 8 44'28 1		direct	02)/100 15 00.25	3 1100 03	
max. Earth dist.	6289 May 18 09:07	27° 8 48'24 4		conjunction	6297 May 24 16:15	6° Ⅱ 38'53	-16°07'30
retrograde	6289 Aug 26 06:58	29° 8 23'46	3.00213710	minimum elong	6297 May 24 16:12	6° П 38'53	16°07'33
min. Earth dist.	6289 Nov 15 10:47	28° 8 23'02 4	4.03121 AU	max. Earth dist.	6297 May 26 23:25		47.22847 AU
opposition	6289 Nov 18 00:21	28° 8 19'58 -1		retrograde	6297 Sep 04 03:06	8° Ⅱ 15'10	
direct	6290 Feb 07 16:31	27° 8 17'17		min. Earth dist.	6297 Nov 24 18:40		45.38805 AU
				opposition	6297 Nov 27 01:30	7° Ⅱ 12'31	-16°51'34
conjunction	6290 May 17 04:41	28° 8 52'50 -1	15°31'51	direct	6298 Feb 16 16:43	6° Ⅱ 11'01	
minimum elong	6290 May 17 04:37	28° 8 52'49 1	15°31'53				
max. Earth dist.	6290 May 19 17:48	28° 8 56'42 40	6.04794 AU	conjunction	6298 May 26 00:09	7° Ⅱ 43'30	-16°11'11
	6290 Jul 04 16:05	$\Pi^{\circ}0$		minimum elong	6298 May 26 00:08	7° Ⅱ 43'30	16°11'14
retrograde	6290 Aug 27 18:02	0°Ⅱ31'45		max. Earth dist.	6298 May 28 07:54	7° Ⅱ 46'57	47.38154 AU
	6290 Oct 22 10:12	30° ₹ 8		retrograde	6298 Sep 05 07:49	9° Ⅱ 19′27	
min. Earth dist.	6290 Nov 16 22:05	29° 8 31'06 4	4.21644 AU	min. Earth dist.	6298 Nov 26 04:04	8° Ⅱ 19'33	45.54032 AU
opposition	6290 Nov 19 10:13	29° 8 28'07 -1	16°16'47	opposition	6298 Nov 28 09:44	8° Ⅱ 16'55	-16°55'05
direct	6291 Feb 09 00:00	28° 8 25'38		direct	6299 Feb 18 03:58	7° Ⅱ 15'35	
						_	
conjunction	6291 May 18 13:45	0° Д 00'47 -1		conjunction	6299 May 27 07:46	8° Ⅱ 47'44	
minimum elong	6291 May 18 13:40	0° Ⅱ 00'47 1	15°38'03	minimum elong	6299 May 27 07:45	8° Ⅱ 47'44	
E d E	6291 May 18 01:20	0°II	(00000 ATT	max. Earth dist.	6299 May 29 14:05		47.53194 AU
max. Earth dist.	6291 May 21 02:44	0° Ⅱ 04'38 4	6.23023 AU	retrograde	6299 Sep 06 16:24	10° Ⅱ 23'21	45 C0000 ATT
retrograde	6291 Aug 29 01:25	1° Ⅱ 39'19	14.2075C ATT	min. Earth dist.	6299 Nov 27 11:38		45.68988 AU
min. Earth dist.	6291 Nov 18 08:16	0°П38'49 4- 0°П35'52 -1		opposition direct	6299 Nov 29 17:45	9° Ⅱ 20'59 8° Ⅱ 19'46	-10-38-13
opposition	6291 Nov 20 19:48 6291 Dec 22 21:22	0 Д33 32 -1 30°R 8	10 22 31	direct	6300 Feb 19 12:15	8 Д1940	
direct	6291 Feb 10 10:08	29° 8 33'34		conjunction	6300 May 28 15:15	9° Ⅱ 51'37	16017'20
direct	6292 Mar 29 12:12	0°Ⅱ		minimum elong	6300 May 28 15:14	9° Ⅱ 51'37	
	02)2 Wai 2) 12.12	νи		max. Earth dist.	6300 May 30 21:27		47.67950 AU
conjunction	6292 May 18 22:34	1° Ⅱ 08'21 -1	15°43'47	retrograde	6300 Sep 08 02:09	11° I I26'57	.1.01750 AU
minimum elong	6292 May 18 22:31	1° I 108'20 1		min. Earth dist.	6300 Nov 28 21:12		45.83656 AU
max. Earth dist.	6292 May 21 09:39	1° П 12'04 4		opposition	6300 Dec 01 01:42	10° I I24'43	
retrograde	6292 Aug 29 09:12	2° П 46'30		direct	6301 Feb 20 19:21	9° Ⅱ 23'41	5007
min. Earth dist.	6292 Nov 18 18:14	1° П 46'08 4	4.57414 AU	•			
opposition	6292 Nov 21 05:12	1° П 43'13 -1		conjunction	6301 May 29 22:41	10° Ⅱ 55'13	-16°20'06
direct	6293 Feb 10 19:47	0° Ⅱ 41′04		minimum elong	6301 May 29 22:41	10° Ⅱ 55'13	
				max. Earth dist.	6301 Jun 01 04:37		47.82429 AU
conjunction	6293 May 20 07:24	2° Ⅱ 15′28 -1	15°49'14	retrograde	6301 Sep 09 09:36	12° Ⅱ 30'16	
minimum elong	6293 May 20 07:20	2° Ⅱ 15′28 1	15°49'16	min. Earth dist.	6301 Nov 30 04:52	11° Ⅲ 30'45	45.98010 AU

opposition direct	6301 Dec 02 09:28 6302 Feb 22 01:45	11° П 28'12 -17°03'25 10° П 27'19	conjunction minimum elong	6310 Jun 08 12:19 6310 Jun 08 12:22	20°Щ15'02 -16°30'02 20°Щ15'02 16°30'04
			max. Earth dist.	6310 Jun 10 10:08	20° I 17'45 48.93656 AU
conjunction	6302 May 31 05:48	11° I 58'35 -16°22'23	retrograde	6310 Sep 18 20:35	21° Ⅱ 47'36
minimum elong	6302 May 31 05:48	11° Д 58'35 16°22'26	min. Earth dist.	6310 Dec 10 05:46	20° Ⅱ 48'37 47.07521 AU
max. Earth dist.	6302 Jun 02 10:16	12° Ⅱ 01'46 47.96574 AU	opposition	6310 Dec 12 01:20	20° I 46'32 -17°11'21
retrograde	6302 Sep 10 17:12	13° Ⅲ 33'21	direct	6311 Mar 03 21:11	19° Ⅱ 46'37
min. Earth dist.	6302 Dec 01 13:32	12° Ⅲ 33'56 46.12015 AU			•
opposition	6302 Dec 03 17:12	12° Ⅲ 31'27 -17°05'29	conjunction	6311 Jun 09 18:38	21° Ⅱ 15'26 -16°29'40
direct	6303 Feb 23 07:24	11° Ⅲ 30'43	minimum elong	6311 Jun 09 18:43	21° I 15'26 16°29'42
	(202) 01 12 00	120 1144 1602 4122	max. Earth dist.	6311 Jun 11 15:58	21° I 18'07 49.04077 AU
conjunction	6303 Jun 01 13:09	13° Ⅱ 01'44 -16°24'22	retrograde	6311 Sep 20 03:19	22° I I47'45
minimum elong	6303 Jun 01 13:10	13° I 101'44 16°24'23	min. Earth dist.	6311 Dec 11 11:39	21° II 48'52 47.17788 AU
max. Earth dist.	6303 Jun 03 17:47	13° I 04'55 48.10339 AU	opposition	6311 Dec 13 07:28	21° I I46'47 -17°10'43
retrograde	6303 Sep 11 22:11	14° П 36'13 13° П 36'53 46.25592 AU	direct	6312 Mar 04 03:03	20° Ⅱ 46'58
min. Earth dist. opposition	6303 Dec 02 22:29 6303 Dec 05 00:35	13° Д 36'53 46.25392 AU 13° Д 34'28 -17°07'15	agniumation	6212 Jun. 10 00:41	22° Ⅱ 15'33 -16°28'59
		13 П 3428 -17 0713 12° П 33'54	conjunction	6312 Jun 10 00:41	22° I 15'33 -16'28'39 22° I 15'33 16°29'01
direct	6304 Feb 24 16:38	12°Щ33′34	minimum elong max. Earth dist.	6312 Jun 10 00:44 6312 Jun 11 20:37	22° I 18'08 49.14217 AU
conjunction	6304 Jun 01 20:17	14° ∏ 04'38 -16°26'01	retrograde	6312 Sep 20 11:41	23° I I47'38
minimum elong	6304 Jun 01 20:17	14° I I 04'38 -10' 20'01' 14° I I 04'38 -16° 26' 04	min. Earth dist.	6312 Dec 11 18:58	22°II48'48 47.27784 AU
max. Earth dist.	6304 Jun 03 23:01	14° I I 07'42 48.23658 AU	opposition	6312 Dec 11 18:38	22° I I 46'46 -17°09'46
retrograde	6304 Sep 12 05:01	15° I 38'53	direct	6313 Mar 05 06:16	21° I 47'03
min. Earth dist.	6304 Sep 12 05:01 6304 Dec 03 06:03	13 П 38 33 14° П 39'40 46.38696 AU	direct	0313 Mai 03 00.10	21 114/03
opposition	6304 Dec 05 07:58	14° I I 37'16 -17°08'43	conjunction	6313 Jun 11 06:41	23° Ⅱ 15'25 -16°28'01
direct	6305 Feb 25 01:11	13° I 36'49	minimum elong	6313 Jun 11 06:45	23° I 15'25 16°28'04
direct	0303100 23 01.11	13 11304)	max. Earth dist.	6313 Jun 13 03:06	23° I 18'02 49.24081 AU
conjunction	6305 Jun 03 03:14	15° Ⅱ 07'17 -16°27'24	retrograde	6313 Sep 21 16:04	24°II47'17
minimum elong	6305 Jun 03 03:14	15° Д 07'17 16°27'26	min. Earth dist.	6313 Dec 13 02:06	23° I [48'30 47.37468 AU
max. Earth dist.	6305 Jun 05 05:18	15° Ц 10'18 48.36472 AU	opposition	6313 Dec 14 19:59	23° I I46'31 -17°08'31
retrograde	6305 Sep 13 13:52	16° I I41'16	direct	6314 Mar 06 12:46	22° I I46'55
min. Earth dist.	6305 Dec 04 15:32	15° П 42'04 46.51278 AU	direct	0311111111 00 12.10	22 10 33
opposition	6305 Dec 06 15:25	15° Д 39'46 -17°09'53	conjunction	6314 Jun 12 12:37	24° Ⅱ 15'05 -16°26'45
direct	6306 Feb 26 09:27	14° Д 39'27	minimum elong	6314 Jun 12 12:42	24° I 15'05 16°26'48
			max. Earth dist.	6314 Jun 14 07:22	24° Ⅱ 17'36 49.33632 AU
conjunction	6306 Jun 04 10:17	16° Ⅱ 09'37 -16°28'30	retrograde	6314 Sep 22 21:13	25° Ⅱ 46'45
minimum elong	6306 Jun 04 10:18	16° 耳 09'37 16°28'33	min. Earth dist.	6314 Dec 14 08:10	24° ∏ 48'05 47.46821 AU
max. Earth dist.	6306 Jun 06 11:22	16° Ⅱ 12'34 48.48779 AU	opposition	6314 Dec 16 01:57	24° Ⅱ 46'06 -17°06'59
retrograde	6306 Sep 14 22:52	17° Ⅱ 43'19	direct	6315 Mar 07 18:51	23° Ⅱ 46'36
min. Earth dist.	6306 Dec 05 22:56	16° 耳 44'12 46.63340 AU			
opposition	6306 Dec 07 22:25	16° Ⅱ 41'56 -17°10'47	conjunction	6315 Jun 13 18:37	25° I 14'35 -16°25'13
direct	6307 Feb 27 14:24	15° Ⅱ 41'42	minimum elong	6315 Jun 13 18:41	25° I 14'35 16°25'17
			max. Earth dist.	6315 Jun 15 12:56	25° Ⅱ 17'04 49.42808 AU
conjunction	6307 Jun 05 17:00	17° Ⅱ 11'35 -16°29'19	retrograde	6315 Sep 24 03:08	26° ∏ 46′04
minimum elong	6307 Jun 05 17:03	17° Ⅱ 11'35 16°29'22	min. Earth dist.	6315 Dec 15 16:16	25° Ⅱ 47'26 47.55762 AU
max. Earth dist.	6307 Jun 07 16:22	17° Ⅱ 14'25 48.60585 AU	opposition	6315 Dec 17 07:59	25° Ⅱ 45'33 -17°05'10
retrograde	6307 Sep 16 06:31	18° Ⅱ 44'59	direct	6316 Mar 08 03:02	24° Ⅱ 46'10
min. Earth dist.	6307 Dec 07 07:13	17° I 45′53 46.74938 AU			
opposition	6307 Dec 09 05:26	17° Ⅱ 43'41 -17°11'23	conjunction	6316 Jun 14 00:33	26° Ⅱ 13'58 -16°23'26
direct	6308 Feb 28 19:51	16° Ⅱ 43'32	minimum elong	6316 Jun 14 00:39	26° Ⅱ 13'58 16°23'27
			max. Earth dist.	6316 Jun 15 17:53	26° Ⅱ 16'23 49.51554 AU
conjunction	6308 Jun 05 23:39	18° Ⅱ 13'08 -16°29'52	retrograde	6316 Sep 24 10:52	27° Ⅱ 45'16
minimum elong	6308 Jun 05 23:41	18° Ⅱ 13'08 16°29'54	min. Earth dist.	6316 Dec 15 22:19	26° Ⅱ 46'43 47.64227 AU
max. Earth dist.	6308 Jun 07 23:09	18° Ⅱ 15'59 48.71955 AU	opposition	6316 Dec 17 13:47	26° Ⅱ 44'51 -17°03'05
retrograde	6308 Sep 16 08:48	19° Ⅱ 46'15	direct	6317 Mar 09 08:02	25° Ⅱ 45'34
min. Earth dist.	6308 Dec 07 15:02	18° Ⅱ 47'10 46.86118 AU			_
opposition	6308 Dec 09 12:09	18° Ⅲ 45'01 -17°11'41	conjunction	6317 Jun 15 06:24	27° Ⅲ 13'12 -16°21'23
direct	6309 Mar 01 04:56	17° Ⅱ 44'57	minimum elong	6317 Jun 15 06:29	27° I 13'12 16°21'26
	(200 I 07 04 04	100 T 1447 1602006	max. Earth dist.	6317 Jun 16 21:50	27° II 15'30 49.59797 AU
conjunction	6309 Jun 07 06:03	19° Ⅱ 14'17 -16°30'06	retrograde	6317 Sep 25 19:08	28° I 44'19
minimum elong	6309 Jun 07 06:07	19° I 14'17 16°30'09	min. Earth dist.	6317 Dec 17 06:00	27° II 45'47 47.72181 AU
max. Earth dist.	6309 Jun 09 03:56	19° I 17'01 48.82964 AU	opposition	6317 Dec 18 19:44	27° Ⅱ 44'01 -17°00'46
retrograde	6309 Sep 17 13:34	20°П47'06 19°П48'07 46.96970 AU	direct	6318 Mar 10 11:12	26° Ⅱ 44'49
min. Earth dist. opposition	6309 Dec 08 21:31 6309 Dec 10 18:45	19° Д 48'07 46.96970 AU 19° Д 45'57 -17°11'40	conjunction	6318 Jun 16 12:18	28° Ⅱ 12'16 -16°19'06
direct	6310 Mar 02 13:06	19° П 45'57 -17°11'40' 18° П 45'58	minimum elong	6318 Jun 16 12:18	28°II12'16 -16°19'09
ancei	0310 IVIAI 02 13.00	10 H4000	max. Earth dist.	6318 Jun 18 03:28	28° I 12'16 16'19'09 28° I 14'32 49.67522 AU
			max. Earth tist.	0510 Juli 10 U5.20	20 11 32 47.0/322 AU

min Earth dist	retrograde	6318 Sep 26 22:30	29° Ⅱ 43'11	minimum elong	6326 Jun 24 07:30	5° 9 57'10 15°51'55
Open	Č	1		ě		
direct 6319 Mar 11 (880) 71 (1478) CPT 11 (16) - 16 (1788) compaction of minimum of m						
1.00 1.00	11			Č		
origination 63 Jay no 17 18 lb 69 PUT 1976 (16188) organization organization control 63 Jay no 19 0636 CPUT 1971 st 74,773 1AU control control 63 Jay no 19 0636 CPUT 1971 st 74,773 1AU control 63 03 Jay 12 18 18 lb 0°95 14 1 18 18 lb 187 18 18 18 18 18 18 18 18 18 18 18 18 18	uncet	0317 1/141 11 10.00	27 13 30	* *		
minumaclogg	conjunction	6319 Jun 17 18:01	29°π11'06 -16°16'3			
Max. Earth disc	·				0327 War 17 13.07	3 32033
Companies	· ·				6327 Jun 25 12:33	6°654'41 -15°47'18
Mathematical Galip Dec	max. Dartii dist.			J		
10 10 10 10 10 10 10 10	ratrograda			· ·		
mm. Earth dist	retrograde	•				
	min Forth dist		,	Č		*
Second S						
Conjunction G320 Jun 1 00:15 0°B	• •					
conjunction	direct			direct	0328 Mai 19 17.00	0 9200/
		0320 Juli 11 00.13	0 39	agniumation	6220 Jun 25 17:52	79652100 15942121
minimum clong 6320 Jun 7 2345 0°250°42 1613753 renograde 6320 Jun 2620 Jun 213 0°351 47.940 retograde 6320 Sec 26.024 8°25271 48.32675 AU retograde 6320 Sec 26.024 8°25271 48.32675 AU retograde 6320 Sec 26.024 8°25271 48.32675 AU retograde 6320 Jun 20 133 0°35274 18.224 1		(220 Jun 17 22.29	00600141 1601314	•		
max. Earth dist.				8		
Petrograde G20 Sep 28 07:36 1994/914 47-93005 AU opposition G320 Dec 28 02:29 07-294 144 47-93005 AU opposition G320 Dec 29 02:29 07-29236 07	_					
min Earth dist. G32 Dec 2 D 20-22 9 0°924174 4 79-9005 AU opposition 6328 Dec 2 pl 2:56 8°92205 - 16°1824 direct 6321 Mar 13 08:15 29°TL4108 conjunction 6329 Jun 2 6 2:05 8°924073 - 15°37730 conjunction 6321 Mar 13 08:15 29°TL4108 conjunction 6329 Jun 2 6 2:05 8°924073 - 15°37730 conjunction 6321 Jun 19 05:01 1°920802 - 16°1050 retugade 6329 Dur 2 6 2:05 8°924073 - 15°37730 minimum elong 6321 Jun 19 05:01 1°920803 - 16°1052 min. Earth dist. 6329 Dec 20 ct 70 19-13 9°921931 - 16°1304 max. Earth dist. 6321 Jun 29 10:03 1°92097 - 49.978285 direct 6320 Mar 2 0 10:25 9°921923 - 16°1304 ertograde 6321 Sep 21 10°739 1°933995 - 49.9122 AU orginaction 6320 Mar 2 0 10:23 9°921923 - 16°1304 direct 6322 Jun 20 10:23 2°920610 - 16°0734 retrograde 6330 Jun 2 8 0+12 9°924647 - 15°3218 direct 6322 Jun 20 10:23 2°920611 - 16°0734 retrograde 6330 Jun 2 8 0+12 9°924647 - 15°3218 direct 6322 Jun 20 10:23 2°				· ·		
Opposition G321 Jun 29 14:21 30 **G4008 16*52*12 direct G329 Mar 20 21:56 7*52*236 3*52*14 direct G321 Mar 13 08:15 29*14*108 conjunction G329 Jun 26 22:56 8*524932 15*3732 G321 Jun 19 05:01 1*20802 16*1050 minimum clong G329 Jun 26 22:56 28*264932 15*3732 G321 Jun 19 05:01 1*20802 16*1050 min. Earth dist. G329 Jun 28 02:45 9*52075 75.26561 AU max. Earth dist. G321 Jun 19 05:01 1*20802 16*1050 min. Earth dist. G329 Dec 30 102:5 9*52037 48.35754 AU max. Earth dist. G321 Jun 20 16:50 1*20802 16*4903 direct G329 Dec 30 102:5 9*52037 48.35754 AU max. Earth dist. G321 Dec 10:739 1*20895 4*79122 AU morphism G322 Jun 20 10:30 2*20807 16*07034 max. Earth dist. G321 Dec 21 17:53 1*23823 16*4903 conjunction G330 Jun 28 04:22 9*524674 15*3218 direct G322 Jun 20 10:30 2*20807 16*0734 max. Earth dist. G321 Jun 21 20:45 2*208079 49*3826 AU min. Earth dist. G330 Jun 29 07:12 9*52479 5*20439 AU min. Earth dist. G322 Jun 20 10:30 2*208079 49*3826 AU min. Earth dist. G330 Jun 29 07:12 9*52479 5*20439 AU min. Earth dist. G322 Jun 21 20:45 2*208079 49*3826 AU min. Earth dist. G330 Jun 29 07:12 9*52479 5*20839 AU min. Earth dist. G332 Jun 21 20:45 2*208079 49*3826 AU min. Earth dist. G331 Jun 29 09:24 10*26473 15*2652 10*26474 15*218 10*26474 15*218 10*26474 15*218 10*26474 15*218 10*26474 15*218 10*26474 15*218 10*26474 15*218 10*26474 15*218 10*26474 15*218 10*26474 15*218 10*26474 15*218 10*26474 10*24474 15*218 10*26474 10*24474 10*	•	1				
direct 6321 Jan 29 1421 30%IT conjunction 6329 Jan 26 22.56 8°524032 15°3730 conjunction 6321 Jan 19 05.01 1°260802 - 16°1050 minimum clong 6329 Jan 26 22.36 8°524032 15°3730 conjunction 6321 Jan 19 05.01 1°260802 - 16°1050 retogade 620 Dec 29 007.51 9°52073 18.5754 AU minimum clong 6321 Jan 19 05.01 1°250802 - 16°1052 min. Earth dist. 6329 Dec 29 07.51 9°52037 48.5754 AU min. Earth dist. 6321 Dec 21 07.39 1°253959 47.99122 AU opposition 6330 Mar 22 02.23 8°52075 direct 6321 Dec 21 07.39 1°253959 47.99122 AU opposition 6330 Jan 28 04.14 9°924647 15°3220 onjunction 6321 Dec 21 07.39 1°253959 47.99122 AU onjunction 6330 Jan 28 04.14 9°924647 15°3220 onjunction 6321 Dec 21 07.39 2°250011 16°0734 retrograde 6330 Jan 28 04.14 9°924647 15°3220 onjunction 6322 Jan 20 10.23 2°250011 16°0734 retrograde 6330 Dec 31 16.15 10°25179 48.38270 AU onjunction 6322 Jan 20 13 2°250809 49.93826 AU						
Conjunction Gall Mar 13 08:15 29°II 4108 Conjunction Gall Mar 24 02:16 Conjunction Gall Mar 19 08:01 Pose 11	opposition			direct	6329 Mar 20 21:56	7° 5 23'36
Conjunction G321 Jun 19 05:01 P208072 - 16°10'50 retrograde G329 Jun 26 23:05 8°224'32 15°37'32 retrograde G329 Oct 07 09:13 10°26'85' Telephonominimum elong G321 Jun 19 05:07 P208073 16°10'52 min. Earth dist. G329 Dec 30 10.25 9°28'20'3 16°10'30 retrograde G329 Dec 30 10.25 16°21'30' 16°21'00' 49.87825 AU opposition G329 Dec 29 07.51 9°220'37 48.875'4 AU retrograde G321 Dec 21 07:39 1°26'38'23 16°40'30 retrograde G320 Dec 30 10.22 21°53 1°26'38'23 16°40'30 retrograde G320 Dec 21 07:39 1°26'38'32 16°40'30 retrograde G320 Dec 21 07:39 1°26'38'32 16°40'30 retrograde G320 Dec 21 07:39 1°26'38'30 1°26'30'30 retrograde G320 Dec 21 07:39 1°26'35'30 retrograde G320 Dec 21 21:19 2°25'37'5 48.091'8 AU retrograde G320 Dec 21 21:19 2°25'37'5 48.091'8 AU retrograde G321 Jun 21 15:56 3°26'40'8 16°40'40'2 retrograde G323 Jun 21 15:56 3°26'40'8 16°40'40'2 retrograde G323 Dec 22 00:13 3°26'40'8 16°40'40'2 retrograde G323 De			,			
max. Earth dist. max. Earth	direct			3		
Conjunction G.321 Jun 19 05.01 1°208'02 16°10'50 minimum clong G.322 Jun 19 05.07 1°208'03 16°10'52 min. Earth dist. G.329 Dec 30 10.25 9°20'20'7 48.35754 AU opposition G.329 Dec 30 10.25 9°20'20'7 48.35754 AU opposition G.329 Dec 30 10.25 9°20'20'7 48.35754 AU opposition G.321 Dec 2 1 0°7.39 1°20'30'8 4.99122 AU opposition G.321 Dec 2 1 1°7.39 1°20'30'8 4.99122 AU opposition G.322 Duc 30 10.25 9°26'40'7 1°20'30'8 4.99122 AU opposition G.322 Duc 3 10'12 9°26'40'7 1°20'30'8 4.99122 AU opposition G.322 Duc 3 10'12 9°26'40'7 1°20'30'8 4.99122 AU opposition G.330 Jun 28 04:12 9°26'40'7 1°20'30'8 4.99122 AU opposition G.330 Jun 28 04:12 9°26'40'7 1°20'30'8 4.99122 AU opposition G.330 Jun 28 04:22 9°26'40'7 1°20'30'8 4.99122 AU opposition G.330 Jun 28 04:22 9°26'40'7 1°20'30'8 4.99122 AU opposition G.330 Jun 28 04:22 9°26'40'7 1°20'30'8 4.99122 AU opposition G.330 Jun 28 04:22 9°26'40'7 1°20'30'8 4.99122 AU opposition G.330 Jun 28 04:22 9°26'40'7 1°20'30'8 4.99122 AU opposition G.330 Jun 28 04:22 9°26'40'7 1°20'30'8 4.69408 4.69		6321 Apr 24 02:16	0ං ව	· ·	6329 Jun 26 23:05	8° © 49'32 15°37'32
minimum elong 6321 Jun 19 05.07 1°90803 16°1052 min. Earth dist. 6329 Dec 30 10.25 9°92037 48.35754 AU max. Earth dist. 6321 Jun 20 16.50 1°50107 49.87825 AU opposition 6329 Dec 30 10.25 9°961923 16°1304 cretorgate 6321 Dec 21 07.39 1°93939 47.99122 AU conjunction 6320 Dec 22 17.53 1°93823 -16°4903 conjunction 6330 Jun 28 04:14 9°924647 15°3218 conjunction 6322 Jun 20 10.23 2°90610 -16°0734 retrograde 6330 Jun 28 04:14 9°924647 15°32208 minimum elong 6322 Jun 20 10.30 2°90611 16°0737 opposition 6330 Dec 31 15:17 10°91632 -16°0731 max. Earth dist. 6322 Jun 20 10.30 2°90601 16°0737 opposition 6330 Dec 30 14:58 10°91830 10°91832 -16°0731 opposition 6322 Dec 30 21:57 3°93623 16°45'28 min. Earth dist. 6330 Dec 31 14:58 10°93180 48.38270 AU direct 6323 Mar 13 16:17 1°93731 max. Earth dist. 6323 Lun 13 16:16 1°93731 10°924351 15°26				max. Earth dist.	6329 Jun 28 02:45	8°951'07 50.26561 AU
max. Earth dist. 6321 Jun 20 16:50 1°@1077 49.87825 AU opposition 6320 Dec 30 10:25 9°@19/23 -16°13'04 min. Earth dist. 6321 Sep 20 13:41 2°@3825 S direct 6330 Mar 22 0:22 8°@2076 S min. Earth dist. 6321 Dec 21 07:33 1°@3895 3 47.99122 AU conjunction 6330 Jun 28 04:14 7°924647 15°32'18 direct 6322 Mar 14 13:54 0°@3925 S minimum clong 6330 Jun 28 04:14 9°94647 15°32'18 conjunction 6322 Jun 20 10:23 2°@0610 16°0734 retrograde 6330 Jun 29 07:12 9°@4819 50:2949 AU minimum clong 6322 Jun 20 10:23 2°@06010 16°0734 retrograde 6330 Dec 30 14:58 10°@1740 48:38270 AU max. Earth dist. 6322 Jun 21 20:45 2°@06795 416°4758 direct 6330 Dec 30 14:58 10°@1740 48:38270 AU direct 6322 Dec 22 14:19 2°@3175 748:04918 AU conjunction 6331 Jun 29 09:27 10°@4351 15°2655 direct 6323 Mar 15 16:17 1°@3731 1 minimum clong 6331 Jun 29 09:27 10°@4351 15°2655 direct 6323 Jun 21 15:50 3°@0407 16°0402 re	conjunction	6321 Jun 19 05:01		O	6329 Oct 07 09:13	10°©18'51
Petrograde G321 Sep 29 13:41 2°938°25 direct G330 Mar 22 0:23 8°920'56 min. Earth dist. G321 Dec 21 07:39 1°939'59 47:99122 AU conjunction G321 Dec 22 17:53 1°939'823 16°49'03 minimum clong G330 Jun 28 04:12 9°9246'47 15°32'10 minimum clong G322 Jun 20 10:23 2°9206'10 16°07'34 retrograde G320 Gun 18 02 12 01.03 2°9206'11 16°07'34 retrograde G320 Gun 20 10:23 2°9206'11 16°07'34 retrograde G320 Gun 20 10:23 2°9206'11 16°07'34 retrograde G320 Gun 20 10:23 2°9206'11 16°07'34 direct G330 Dec 31 15:17 10°2516'32 16°07'31 max. Earth dist. G320 Dec 23 13:10 2°9206'11 16°07'34 direct G331 Mar 2 0:02 9°924'81 48.8270 AU retrograde G322 Sep 30 21:57 3°936'23 16°45'28 direct G331 Mar 2 0:02 9°927'81 48.8270 AU retrograde G322 Dec 23 13:10 2°930'24 16°45'28 min. Earth dist. G320 Dec 23 14:19 2°933'75 48.04918 AU conjunction G331 Jun 2 0:09:27 10°254'35 15°26'55 direct G323 Mar 15 16:17 1°237'31 48.04918 AU conjunction G331 Jun 2 0:09:37 10°254'31 15°26'55 direct G323 Mar 2 0:23 3°9200'7 4°995'24 AU min. Earth dist. G320 Dec 23 12:35 3°9200'7 4°995'24 AU min. Earth dist. G320 Dec 23 0:24 3°920'89 4°931'8 48.10398 AU opposition G323 Jun 2 1 15:56 3°920'88 48.10398 AU opposition G323 Jun 2 1 0:25 4°920'84 4°934'10 direct G323 Mar 2 1 15:40 1°921'14 48.40265 AU opposition G324 Jun 2 1 0:25 4°920'85 16°01'14 opposition G324 Jun 2 1 0:25 4°920'85 16°01'14 opposition G323 Jun 2 1 0:25 4°920'85 16°01'14 opposition G324 Jun	minimum elong	6321 Jun 19 05:07	1°508'03 16°10'5	min. Earth dist.	6329 Dec 29 07:51	9° 5 20'37 48.35754 AU
Min. Earth dist.	max. Earth dist.	6321 Jun 20 16:50	1° © 10'07 49.8782	5 AU opposition	6329 Dec 30 10:25	9° 5 19'23 -16°13'04
opposition direct 6321 Dec 22 17:53 1°938'23 -16°49'03 conjunction minimum elong 6330 Jun 28 04:24 9°926'647 15°32'18 and minimum elong 6330 Jun 28 04:22 9°26'647 15°32'20 and minimum elong 6330 Jun 29 07:12 9°926'647 15°32'20 and minimum elong 6330 Jun 29 07:12 9°926'647 15°32'20 and minimum elong 6330 Jun 20 10:23 2°906'10 -16°07'34 retrograde opposition 6330 Dec 31 15:17 10°93'632 -16°07'31 and minimum elong 6330 Dec 31 15:17 10°93'632 -16°07'31 and minimum elong 6330 Dec 31 15:17 10°93'632 -16°07'31 and minimum elong 6331 Jun 20 09:22 9°93'18'0 -16°07'31 and minimum elong 6331 Jun 20 09:27 10°93'43'0 -15°26'52 -16°07'31 and minimum elong 6331 Jun 20 09:27 10°93'43'0 -15°26'52 -16°26'52 -16°07'31 and minimum elong 6331 Jun 20 09:27 10°93'43'0 -15°26'52 -16°26'52 -16°07'31 and minimum elong 6331 Jun 20 09:27 10°93'43'0 -15°26'52 -16°07'31 and minimum elong 6331 Jun 20 09:27 10°93'43'0 -15°26'52 -16°07'31 and minimum elong 6331 Jun 20 09:37 10°93'43'1 15°26'52 -16°01'45 -16°07'31 and minimum elong 6331 Jun 20 09:37	retrograde	6321 Sep 29 13:41	2° 5 38'25	direct	6330 Mar 22 02:23	8° 9 20'56
direct 6322 Mar 14 13:54 0°@39'25	min. Earth dist.	6321 Dec 21 07:39	1° 5 39'59 47.9912	2 AU		
conjunction 6322 Jun 20 10:23 2°806/10 - 16°07'34 retrograde retrograde 6330 Jun 29 07:12 9°848'19 50.29439 AU minimum elong minimum elong minimum elong minimum elong coposition 6322 Jun 21 20:45 2°806/01 16°07'34 min. Earth dist. 6330 Dec 31 15:17 10°931'70 48.38270 AU opposition of 5322 Dec 23 23:10 2°806/21 - 16°45'28 direct 6331 Jun 29 09:27 10°837'80 15°26'52 direct 6323 Mar 15 16:17 1°8373'1 conjunction 6331 Jun 29 09:27 10°834'50 15°26'52 minimum elong discret 6323 Jun 21 15:56 3°8040'7 -16°04'02 retrograde retrograde 6331 Dut 29 09:27 10°834'51 50°318'8 econjunction 6323 Jun 21 15:56 3°8040'8 16°04'02 retrograde 6331 Dut 09 17:15 10°845'18 50.318'78 AU ertorgrade conjunction 6323 Jun 21 15:56 3°8040'8 16°04'02 retrograde 6331 Dut 09 17:15 10°845'18 50.318'8 AU ertorgrade conjunction 6323 Jun 21 15:56 3°8040'8 16°04'04 opposition 6332 Duc 2 11°913'3 11°913'3 11°913'3 11°913'3 11°913'3 <td< td=""><td>opposition</td><td>6321 Dec 22 17:53</td><td>1°538'23 -16°49'0</td><td>conjunction</td><td>6330 Jun 28 04:14</td><td>9°546'47 -15°32'18</td></td<>	opposition	6321 Dec 22 17:53	1°538'23 -16°49'0	conjunction	6330 Jun 28 04:14	9° 5 46'47 -15°32'18
Conjunction G322 Jun 20 10:23 2°90610 16°07'34 retrograde G330 Oct 08 12:29 11°915'85 16°07'31 minimum elong G322 Jun 20 10:30 2°906'11 16°07'37 opposition G330 Oct 08 12:29 11°916'32 16°07'31 min. Earth dist. G330 Dcc 30 14:58 10°901'632 16°07'31 min. Earth dist. G330 Dcc 30 14:58 10°901'632 16°07'31 min. Earth dist. G330 Dcc 30 14:58 10°901'632 16°07'31 min. Earth dist. G330 Dcc 30 14:58 10°901'632 16°07'31 min. Earth dist. G331 Jun 20 09:27 10°94'35 15°26'52 16°07'31 min. Earth dist. G331 Jun 20 09:27 10°94'35 15°26'52 16°07'31 min. Earth dist. G331 Jun 20 09:27 10°94'35 15°26'52 10°94'35 15°26'52 10°94'35 15°26'52 10°94'35 15°26'52 10°94'35 15°26'52 10°94'35 15°26'52 10°94'35 15°26'52 10°94'35 15°26'52 10°94'35 15°26'52 10°94'35 15°26'52 10°94'35 15°26'52 10°94'35 10°94'35 15°26'52 10°94'35	direct	6322 Mar 14 13:54	0° © 39'25	minimum elong	6330 Jun 28 04:22	9° 5 46'47 15°32'20
minimum elong 6322 Jun 20 10:30 2°90611 16°07'37 opposition 6330 Dec 30 15:17 10°90632 -16°07'31 max. Earth dist. 6322 Jun 21 20:45 2°908'09 49.93826 AU min. Earth dist. 6330 Dec 30 14:58 10°907'140 48.38270 AU retrograde 6322 Dec 23 23:10 2°936'23 -16°45'28 conjunction 6331 Jun 20 09:27 10°94'35 15°26'52 direct 6323 Mar 15 16:17 1°937'31 48.04918 AU conjunction 6331 Jun 20 09:27 10°94'35 15°26'52 conjunction 6323 Jun 21 15:50 3°904'07 -16°04'02 minimum elong 6331 Jun 30 11:07 10°94'35 5°26'52 minimum elong 6323 Jun 21 15:50 3°904'08 16°04'04 opposition 6332 Jun 10:59 11°931'33 -16°01'15 max. Earth dist. 6323 Dec 23 0ct 20 20:06 4°934'10 min. Earth dist. 6332 Lun 10:59 11°931'33 -16°01'15 min. Earth dist. 6323 Dec 23 0ct 20 20:06 4°934'10 4°952'4 AU min. Earth dist. 6332 Lun 10:59 11°931'33				max. Earth dist.	6330 Jun 29 07:12	9°5548'19 50.29439 AU
max. Earth dist. 6322 Jun 21 20:45 2°508'09 49.93826 AU min. Earth dist. 6330 Dec 30 14:58 10°507'40 48.38270 AU retograde 6322 Sep 30 21:57 3°53623 direct 6331 Mar 23 09:29 9°508'06 opposition 6322 Dec 23 23:10 2°536'24 -16°45'28 conjunction 6331 Jun 29 09:27 10°54'35'1 15°26'52 direct 6323 Mar 15 16:17 1°537'31 minimum elong 6331 Jun 30 11:07 10°54'51'8 50.3178'7 AU conjunction 6323 Jun 21 15:56 3°504'07 -16°04'02 retrograde 6331 Oct 09 17:15 12°56'15 10°54'15'8 50.3178'7 AU max. Earth dist. 6323 Jun 23 02:28 3°506'07 49.99524 AU min. Earth dist. 6331 Dec 31 19:59 11°56'13'30 -16°01'45 min. Earth dist. 6323 Dec 25 04:22 3°534'6 48.10398 AU direct 6332 Jun 23 15:41 10°51'30'4 48.40265 AU opposition 6324 Mar 15 20:26 2°535'26 minimum elong 6332 Jun 29 14:20 11°54'01'4 48.40265 AU opposition 6324 Jun 21 20:57 4°501'55 16'00'14 retrograde 6332 Jun 30 14:10 1	conjunction	6322 Jun 20 10:23	2°506'10 -16°07'3	4 retrograde	6330 Oct 08 12:29	11° © 15'58
Petrograde 6322 Sep 30 21:57 3°93623 direct 6331 Mar 23 09:29 9°91806 sopposition 6322 Dec 23 23:10 2°93675 48.04918 AU conjunction 6331 Jun 29 09:27 10°934350 15°2652 direct 6323 Mar 15 16:17 1°93731 minimum elong 6331 Jun 29 09:27 10°934351 15°2655 max. Earth dist. 6331 Jun 29 09:37 10°934351 15°2655 minimum elong 6323 Jun 21 15:50 3°90407 16°0402 retrograde 6331 Jun 30 11:07 10°934518 50.31787 AU retrograde 6323 Jun 21 15:56 3°90408 16°0404 opposition 6332 Jun 01 19:59 11°93130 16°0145 max. Earth dist. 6323 Jun 23 02:28 3°90607 49.99524 AU min. Earth dist. 6331 Jun 30 11:07 10°91437 48.40265 AU retrograde 6323 Oct 02 02:06 4°93410 retrograde 6332 Mar 23 15:41 10°91570 11°91437 48.40265 AU retrograde 6323 Dec 23 02:13 3°93546 48.10398 AU retrograde 6323 Jun 29 14:20 11°93404 -15°2114 retrograde 6324 Mar 15 20:26 2°93526 minimum elong 6332 Jun 29 14:20 11°93404 -15°2114 retrograde 6324 Jun 21 20:57 4°90155 16°0014 retrograde 6332 Jun 29 14:20 11°93404 -15°2114 retrograde 6324 Jun 21 20:57 4°90155 16°0017 min. Earth dist. 6333 Jun 10 10:24 12°9114 48.41802 AU retrograde 6324 Jun 23 05:56 4°90148 50.04924 AU opposition 6332 Jun 29 14:20 11°93404 -15°546 retrograde 6324 Oct 02 06:32 5°93148 retrograde 6324 Oct 02 06:32 5°93148 retrograde 6324 Jun 23 05:56 4°90348 50.04924 AU opposition 6333 Jun 10 02:24 12°93119 15°1523 retrograde 6325 Jun 23 02:11 4°95934 -15°5610 retrograde 6333 Jun 10 19:23 12°93719 15°1523 retrograde 6325 Jun 23 02:11 4°95934 -15°5610 retrograde 6333 Jun 10 19:23 12°93719 15°1523 retrograde 6325 Jun 23 02:11 4°95934 -15°5610 retrograde 6333 Jun 10 19:23 12°93719 15°1523 retrograde 6325 Jun 23 02:11 4°95934 -15°5610 retrograde 6334 Jun 20 07:44 13°90746 48.49374 retrograde 6325 Jun 23 02:14 4°95935 15°9613	minimum elong	6322 Jun 20 10:30	2°506'11 16°07'3	opposition opposition	6330 Dec 31 15:17	10°5516'32 -16°07'31
opposition 6322 Dec 23 23:10 2°@36'24 - 16°45'28 conjunction 6331 Jun 29 09:27 10°@43'51 15°26'52 direct 6323 Mar 15 16:17 1°@37'31 minimum elong 6331 Jun 29 09:37 10°@43'51 15°26'52 conjunction 6323 Jun 21 15:50 3°@04'07 - 16°04'02 retrograde 6331 Jun 30 11:07 10°@45'18 50.31787 AU conjunction 6323 Jun 21 15:50 3°@04'07 - 16°04'02 retrograde 6331 Oct 09 17:15 12°@12'54 10°@45'18 50.31787 AU max. Earth dist. 6323 Jun 23 15:56 3°@04'07 - 16°04'02 retrograde 6331 Dec 31 19:50 11°@13'30 - 16°01'45 11°@13'30 - 16°0	max. Earth dist.	6322 Jun 21 20:45	2°508'09 49.9382	6 AU min. Earth dist.	6330 Dec 30 14:58	10°517'40 48.38270 AU
opposition 6322 Dec 23 23:10 2°@36'24 - 16°45'28 conjunction 6331 Jun 29 09:27 10°@43'51 15°26'52 direct 6323 Mar 15 16:17 1°@37'31 minimum elong 6331 Jun 29 09:37 10°@43'51 15°26'52 conjunction 6323 Jun 21 15:50 3°@04'07 - 16°04'02 retrograde 6331 Jun 30 11:07 10°@45'18 50.31787 AU conjunction 6323 Jun 21 15:50 3°@04'07 - 16°04'02 retrograde 6331 Oct 09 17:15 12°@12'54 10°@45'18 50.31787 AU max. Earth dist. 6323 Jun 23 15:56 3°@04'07 - 16°04'02 retrograde 6331 Dec 31 19:50 11°@13'30 - 16°01'45 11°@13'30 - 16°0	retrograde	6322 Sep 30 21:57	3° © 36′23	direct	6331 Mar 23 09:29	9° © 18'06
Minimum elong G323 Mar 15 16:17 1°937'31 Minimum elong G331 Jun 29 09:37 10°943'51 15°26'55 Max. Earth dist. G331 Jun 30 11:07 10°94'81'8 50.31787 AU	opposition	=	2°936'24 -16°45'2	28		
conjunction 6323 Jun 21 15:50 3°\$04'07 -16°04'02 max. Earth dist. 6331 Jun 30 11:07 10°\$45'18 50.31787 AU conjunction 6323 Jun 21 15:50 3°\$04'08 16°04'04 opposition 6332 Jun 01 19:59 11°\$31'30 -16°01'45 max. Earth dist. 6323 Jun 20 02:02 3°\$06'07 49.99524 AU min. Earth dist. 6331 Dec 31 19:50 11°\$91'37 48.40265 AU min. Earth dist. 6323 Dec 23 20:13 3°\$35'46 48.10398 AU direct 6332 Jun 20 14:20 11°\$40'40 -15°21'14 direct 6324 Mar 15 20:26 2°\$35'26 minimum elong 6332 Jun 20 14:20 11°\$40'41 15°21'14 direct 6324 Jun 21 20:57 4°\$01'55 16°00'14 retrograde 6332 Jun 20 14:20 11°\$40'41 15°21'17 minimum elong 6324 Jun 21 20:57 4°\$01'55 16°00'14 retrograde 6332 Jun 20 14:20 11°\$40'41 15°21'17 max. Earth dist. 6324 Jun 21 21:05 4°\$01'55 16°00'17 min. Earth dist. 6333 Jun 30 10:02:24 12°\$91'14 48.41802 AU max. Earth dist. 6324 Jun 23 0	min. Earth dist.	6322 Dec 22 14:19	2°537'57 48.0491	8 AU conjunction	6331 Jun 29 09:27	10°9543'50 -15°26'52
max. Earth dist. max. Earth dist. max. Earth dist. 6331 Jun 30 11:07 10°@45'18 50.31787 AU	direct	6323 Mar 15 16:17	1° 5 37'31	minimum elong	6331 Jun 29 09:37	10°9543'51 15°26'55
minimum elong 6323 Jun 21 15:56 3°@04'08 16°04'04 opposition 6332 Jan 01 19:59 11°@13'30 -16°01'45 max. Earth dist. 6323 Jun 23 02:28 3°@06'07 49.99524 AU min. Earth dist. 6331 Dec 31 19:50 11°@14'37 48.40265 AU retrograde 6323 Oct 02 02:06 4°@34'10 direct 6332 Mar 23 15:41 10°@15'04 -16°01'45 min. Earth dist. 6323 Dec 23 02:13 3°@35'46 48.10398 AU conjunction 6332 Jun 29 14:20 11°@40'40 -15°21'14 direct 6324 Mar 15 20:26 2°@35'26 minimum elong 6332 Jun 29 14:28 11°@40'40 -15°21'14 conjunction 6324 Jun 21 20:57 4°@01'54 -16°00'14 retrograde 6332 Jun 30 14:10 11°@40'40 15°21'17 max. Earth dist. 6324 Jun 21 20:57 4°@01'55 16°00'17 min. Earth dist. 6333 Jun 30 14:10 11°@40'40 15°21'14 retrograde 6324 Jun 23 05:56 4°@01'55 16°00'17 min. Earth dist. 6333 Jun 30 10 20:20 12°@11'14 84.41802 AU opposition				max. Earth dist.	6331 Jun 30 11:07	10°9545'18 50.31787 AU
minimum elong 6323 Jun 21 15:56 3°®04'08 16°04'04 opposition 6332 Jan 01 19:59 11°®13'30 -16°01'45 max. Earth dist. 6323 Jun 23 02:28 3°®06'07 49.99524 AU min. Earth dist. 6331 Dec 31 19:50 11°®14'37 48.40265 AU retrograde 6323 Dec 23 20:13 3°®35'46 48.10398 AU opposition 6332 Jun 29 14:20 11°®40'40 -15°21'14 direct 6324 Mar 15 20:26 2°®35'26 2°®35'26 minimum elong 6332 Jun 29 14:20 11°®40'40 -15°21'14 conjunction 6324 Jun 21 20:57 4°®01'54 -16°01'14 retrograde 6332 Jun 30 14:10 11°®40'40 -15°21'14 minimum elong 6324 Jun 21 20:57 4°®01'55 16°00'14 retrograde 6332 Jun 30 14:10 11°®40'40 -15°21'14 max. Earth dist. 6324 Jun 21 20:57 4°®01'55 16°00'14 min. Earth dist. 6333 Jun 30 14:10 10°24'20 50.33630 AU retrograde 6324 Jun 23 05:56 4°®01'55 16°00'15 min. Earth dist. 6333 Jun 30 100 20.4 12°®10'14 48.41802 AU<	conjunction	6323 Jun 21 15:50	3°504'07 -16°04'0	2 retrograde	6331 Oct 09 17:15	12° © 12'54
max. Earth dist. 6323 Jun 23 02:28 3°\$06'07 49.99524 AU min. Earth dist. 6331 Dec 31 19:50 11°\$14'37 48.40265 AU retrograde 6323 Oct 02 02:06 4°\$34'10 direct 6332 Mar 23 15:41 10°\$15'04 min. Earth dist. 6323 Dec 23 20:13 3°\$35'46 48.10398 AU direct 6332 Jun 29 14:20 11°\$40'40 -15°21'14 direct 6324 Mar 15 20:26 2°\$35'26 - minimum elong 6332 Jun 29 14:20 11°\$40'40 -15°21'14 conjunction 6324 Jun 21 20:57 4°\$01'54 -16°00'14 retrograde 6332 Jun 20 11'10 00:31 11°\$40'40 -15°21'17 minimum elong 6324 Jun 21 21:05 4°\$01'55 -16°00'17 min. Earth dist. 6332 Jun 20 10:24 12°\$910'14 -15°5'46 retrograde 6324 Oct 02 06:32 5°\$31'148 direct 6333 Jun 20 00:45 12°\$11'16 48.41802 AU min. Earth dist. 6324 Dec 24 01:28 4°\$33'29 48.15586 AU opposition 6333 Jun 30 19:23 12°\$11'16 48.41802 AU direct 6325 Mar 17 00:56 3°\$33'13 00'13 18°\$1'24 -15°5'16 minimum elong 6324 Dec 25 09:29 4°\$31'59 -16°37'28			3°504'08 16°04'0		6332 Jan 01 19:59	11°5613'30 -16°01'45
retrograde	•			* *		
min. Earth dist. 6323 Dec 23 20:13 3°\$35'46 48.10398 AU opposition 6323 Dun 29 14:20 11°\$40'40 -15°21'14 direct 6324 Mar 15 20:26 20:26 2°\$35'26 20:26 conjunction 6332 Jun 29 14:20 11°\$40'40 15°21'17 conjunction 6324 Jun 21 20:57 20:26 4°\$01'54 -16°00'14 retrograde 6332 Jun 30 14:10 11°\$40'41 15°21'17 minimum elong mi		6323 Oct 02 02:06	4°934'10			
opposition 6323 Dec 25 04:22 3°S34'16 -16°41'36 conjunction 6332 Jun 29 14:28 11°S40'40 -15°21'14 direct 6324 Mar 15 20:26 2°S35'26 - 1000'15 - 10°0'14 minimum elong 6332 Jun 29 14:28 11°S40'41 - 15°21'17 conjunction 6324 Jun 21 20:57 4°S01'54 -16°00'14 retrograde 6332 Oct 10 00:31 13°S09'37 - 10°20'14 minimum elong 6324 Jun 21 21:05 4°S01'55 16°00'17 min. Earth dist. 6333 Jun 01 02:24 12°S11'16 48.41802 AU max. Earth dist. 6324 Oct 02 06:32 5°S31'48 - 10°00'17 min. Earth dist. 6333 Jun 02 00:45 12°S10'14 - 15°55'46 retrograde 6324 Oct 02 06:32 5°S31'48 - 10°37'28 conjunction 6333 Jun 30 19:23 12°S37'19 - 15°15'23 direct 6325 Mar 17 00:56 3°S33'13 - 10°37'28 conjunction 6333 Jun 30 19:23 12°S37'19 - 15°15'26 conjunction 6325 Jun 23 02:11 - 4°S9'34 - 15°56'10 retrograde 6333 Jun 30 19:23 12°S38'40 50:356'64 conjunction 6325 Jun 23 02:11 - 4°S9'35 15°56'10 retrograde 6333 Jun 30 19:23 12°S38'40 50:356'64 conjunction 6325 Jun 23 02:11 - 4°S	•					
direct 6324 Mar 15 20:26 2°\$35'26 minimum elong 6332 Jun 29 14:28 11°\$40'41 15°\$21'17 conjunction 6324 Jun 21 20:57 4°\$01'54 -16°00'14 retrograde 6332 Jun 30 14:10 11°\$42'02 50,33630 AU minimum elong 6324 Jun 21 20:57 4°\$01'55 16°00'17 min. Earth dist. 6333 Jun 01 02:24 12°\$91'16 48.41802 AU max. Earth dist. 6324 Jun 23 05:56 4°\$03'48 50.04924 AU opposition 6333 Jun 01 02:24 12°\$91'14 -15°55'46 retrograde 6324 Dec 24 01:28 4°\$33'29 48.15586 AU opposition 6333 Jun 30 19:23 12°\$37'19 -15°15'23 direct 6325 Mar 17 00:56 3°\$33'13 minimum elong 6333 Jun 30 19:23 12°\$37'19 -15°15'23 direct 6325 Jun 23 02:11 4°\$59'34 -15°56'10 retrograde 6333 Jun 30 19:23 12°\$38'40 50.35056 AU conjunction 6325 Jun 2					6332 Jun 29 14:20	11°9540'40 -15°21'14
max. Earth dist. max. Earth dist. 6322 Jun 30 14:10 11°\$42'02 50.33630 AU conjunction 6324 Jun 21 20:57 4°\$01'54 -16°00'14 retrograde 6332 Oct 10 00:31 13°\$69'37 minimum elong 6324 Jun 21 21:05 4°\$01'55 16°00'17 min. Earth dist. 6333 Jan 01 02:24 12°\$11'16 48.41802 AU max. Earth dist. 6324 Jun 23 05:56 4°\$03'48 50.04924 AU opposition 6333 Jan 02 00:45 12°\$11'14 48.41802 AU opposition 6324 Dec 24 01:28 4°\$33'29 48.15586 AU opposition 6324 Dec 25 09:29 4°\$31'59 -16°37'28 conjunction 6333 Jun 30 19:23 12°\$37'19 -15°15'23 direct 6325 Mar 17 00:56 3°\$33'13 minimum elong 6333 Jun 30 19:33 12°\$37'19 15°15'26 max. Earth dist. 6333 Jun 01 19:21 12°\$38'40 50.35056 AU conjunction 6325 Jun 23 02:11 4°\$59'34 -15°56'10 retrograde 6333 Jun 02 07:44 13°\$06'08 minimum elong 6325 Jun 23 02:19 4°\$59'35 15°56'13 min. Earth dist. 6334 Jan 02 07:44 13°\$07'46 48.42937 AU max. Earth dist. 6325 Dec 25 08:18 5°\$01'27 50.10020 AU opposition 6334 Jan 03 05:19 13°\$06'45 -15°49'32 retrograde 6325 Dec 25 08:18 5°\$031'02 48.20455 AU opposition 6334 Jul 02 00:13 13°\$33'46 -15°09'17 direct 6326 Mar 18 09:32 4°\$30'55 minimum elong 6334 Jul 02 00:21 13°\$33'46 15°09'19 max. Earth dist. 6334 Jul 02 00:21 13°\$33'46 15°09'19 max. Earth dist. 6334 Jul 02 00:21 13°\$33'46 15°09'19 max. Earth dist. 6334 Jul 02 00:21 13°\$33'46 15°09'19 max. Earth dist. 6334 Jul 02 00:21 13°\$33'46 15°09'19 max. Earth dist. 6334 Jul 02 02:216 13°\$35'01 50.36118 AU 02 02:2	• •			•		
conjunction 6324 Jun 21 20:57 4°\$01'54 -16°00'14 retrograde 6332 Oct 10 00:31 13°\$09'37 48.41802 AU minimum elong 6324 Jun 21 21:05 4°\$01'55 16°00'17 min. Earth dist. 6333 Jan 01 02:24 12°\$11'16 48.41802 AU max. Earth dist. 6324 Jun 23 05:56 4°\$03'48 50.04924 AU opposition 6333 Jan 02 00:45 12°\$10'14 -15°55'46 retrograde 6324 Oct 02 06:32 5°\$31'48 direct direct 6333 Jan 02 00:45 12°\$10'14 -15°55'46 min. Earth dist. 6324 Dec 24 01:28 d°\$31'59 -16°37'28 direct 6333 Jun 30 19:23 12°\$37'19 -15°15'23 direct 6325 Mar 17 00:56 3°\$3'13 3°\$33'13 minimum elong 6333 Jun 30 19:33 12°\$37'19 15°15'26 conjunction 6325 Jun 23 02:11 4°\$59'34 -15°56'10 retrograde 6333 Jul 01 19:21 12°\$38'40 50.35056 AU conjunction 6325 Jun 23 02:11 4°\$59'34 -15°56'10 retrograde 6333 Jul 01 19:21 12°\$38'40 50.35056 AU minimum elong 6325 Jun 24 10:55 5°\$01'27 50.10020 AU opposition 6334 Jan 02 07:44 13°\$06'45 -15°49'32 retrograde 6325 Dec 25 08:18 5°\$31'02 48.20455 AU opposition 6334 Jul 02 00:13 13°\$33'46 -15°09'17 direc				· ·		11°942'02 50.33630 AU
minimum elong 6324 Jun 21 21:05 4°\$01'55 16°00'17 min. Earth dist. 6333 Jan 01 02:24 12°\$11'16 48.41802 AU max. Earth dist. 6324 Jun 23 05:56 4°\$03'48 50.04924 AU opposition 6333 Jan 02 00:45 12°\$11'16 48.41802 AU retrograde 6324 Oct 02 06:32 5°\$31'48 direct 6333 Mar 24 19:16 11°\$11'48 opposition 6324 Dec 24 01:28 4°\$33'29 48.15586 AU opposition 6333 Jun 30 19:23 12°\$37'19 -15°15'23 direct 6325 Mar 17 00:56 3°\$33'13 conjunction 6333 Jun 30 19:33 12°\$37'19 -15°15'23 conjunction 6325 Jun 23 02:11 4°\$59'34 -15°56'10 retrograde 6333 Jun 30 19:33 12°\$38'40 50.35056 AU conjunction 6325 Jun 23 02:11 4°\$59'34 -15°56'10 retrograde 6333 Oct 11 05:06 14°\$06'08 13°\$06'45 -15°49'32 max. Earth dist. 6325 Jun 24 10:55 5°\$01'27 50.10020 AU opposition 6334 Jun 02 07:44 13°\$06'45 -15°49'32 retrograde 6325 D	conjunction	6324 Jun 21 20:57	4°901'54 -16°00'1			
max. Earth dist. 6324 Jun 23 05:56 4°®03'48 50.04924 AU opposition 6333 Jan 02 00:45 12°®10'14 -15°55'46 retrograde 6324 Oct 02 06:32 5°®31'48 direct 6333 Mar 24 19:16 11°®11'48 11°®11'48 min. Earth dist. 6324 Dec 24 01:28 4°®33'29 48.15586 AU conjunction 6333 Jun 30 19:23 12°®37'19 -15°15'23 direct 6325 Mar 17 00:56 3°®33'13 conjunction 6333 Jun 30 19:33 12°®37'19 -15°15'23 direct 6325 Jun 23 02:11 4°®59'34 -15°56'10 retrograde 6333 Jul 01 19:21 12°®38'40 50.35056 AU conjunction 6325 Jun 23 02:11 4°®59'35 15°56'13 min. Earth dist. 6334 Jan 02 07:44 13°®07'46 48.42937 AU max. Earth dist. 6325 Dec 03 09:41 6°®29'21 direct						
retrograde 6324 Oct 02 06:32 5°\$31'48 direct 6333 Mar 24 19:16 11°\$11'48 min. Earth dist. 6324 Dec 24 01:28 4°\$33'29 48.15586 AU opposition 6324 Dec 25 09:29 4°\$31'59 -16°37'28 conjunction 6333 Jun 30 19:23 12°\$37'19 -15°15'23 direct 6325 Mar 17 00:56 3°\$33'13 minimum elong 6333 Jun 30 19:23 12°\$37'19 15°15'26 max. Earth dist. 6325 Jun 23 02:11 4°\$59'34 -15°56'10 retrograde 6333 Oct 11 05:06 14°\$06'08 minimum elong 6325 Jun 23 02:19 4°\$59'35 15°56'13 min. Earth dist. 6325 Jun 24 10:55 5°\$01'27 50.10020 AU opposition 6334 Jan 02 07:44 13°\$06'45 -15°49'32 retrograde 6325 Oct 03 09:41 6°\$29'21 direct 6334 Mar 25 22:55 12°\$08'20 min. Earth dist. 6325 Dec 25 08:18 5°\$31'02 48.20455 AU opposition 6334 Jul 02 00:13 13°\$33'46 -15°09'17 direct 6326 Mar 18 09:32 4°\$30'55 minimum elong max. Earth dist. 6334 Jul 02 00:21 13°\$33'46 15°09'19 max. Earth dist. 6334 Jul 02 22:16 13°\$35'01 50.36118 AU	_					
min. Earth dist. 6324 Dec 24 01:28				* *		
opposition 6324 Dec 25 09:29 4°S31'59 -16°37'28 conjunction minimum elong 6333 Jun 30 19:23 12°S37'19 -15°15'23 direct 6325 Mar 17 00:56 3°S33'13 minimum elong max. Earth dist. 6333 Jun 30 19:33 12°S37'19 15°15'26 conjunction 6325 Jun 23 02:11 4°S59'34 -15°56'10 retrograde 6333 Jul 01 19:21 12°S38'40 50.35056 AU minimum elong max. Earth dist. 6325 Jun 23 02:19 4°S59'35 15°56'13 15°56'13 min. Earth dist. 6334 Jan 02 07:44 13°S07'46 48.42937 AU max. Earth dist. 6325 Jun 24 10:55 5°S01'27 50.10020 AU opposition 6334 Jan 03 05:19 13°S06'45 -15°49'32 retrograde min. Earth dist. 6325 Dec 25 08:18 5°S31'02 48.20455 AU direct 6334 Jul 02 00:13 13°S33'46 -15°09'17 direct 6326 Mar 18 09:32 4°S30'55 4°S30'55 minimum elong minimum elong minimum elong minimum elong max. Earth dist. 6334 Jul 02 00:21 13°S33'46 15°09'19	•				0333 With 24 17.10	11 311 40
direct 6325 Mar 17 00:56 3°S33'13 minimum elong max. Earth dist. 6333 Jun 01 19:33 12°S37'19 15°15'26 conjunction 6325 Jun 23 02:11 4°S59'34 -15°56'10 retrograde 6333 Jul 01 19:21 12°S38'40 50.35056 AU minimum elong 6325 Jun 23 02:11 4°S59'34 -15°56'10 retrograde 6333 Jun 01 19:21 12°S08'40 50.35056 AU minimum elong 6325 Jun 23 02:19 4°S59'35 15°56'13 min. Earth dist. 6334 Jan 02 07:44 13°S07'46 48.42937 AU max. Earth dist. 6325 Jun 24 10:55 5°S01'27 50.10020 AU opposition 6334 Jan 03 05:19 13°S06'45 -15°49'32 retrograde 6325 Oct 03 09:41 6°S29'21 direct 6334 Mar 25 22:55 12°S08'20 min. Earth dist. 6325 Dec 25 08:18 5°S31'02 48.20455 AU conjunction 6334 Jul 02 00:13 13°S33'46 -15°09'17 direct 6326 Mar 18 09:32 4°S30'55 minimum elong 6334 Jul 02 00:21 13°S33'46 15°09'19 max. Earth dist. 6334 Jul 02 22:16 13°S35'01 50.36118 AU					6333 Jun 30 10:33	120637110 15015123
conjunction 6325 Jun 23 02:11 4°S59'34 -15°56'10 retrograde retrograde 6333 Jul 01 19:21 12°S38'40 50.35056 AU minimum elong minimum elong max. Earth dist. 6325 Jun 23 02:19 4°S59'35 15°56'13 min. Earth dist. 6334 Jan 02 07:44 13°S07'46 48.42937 AU max. Earth dist. 6325 Jun 24 10:55 5°S01'27 50.10020 AU opposition 6334 Jan 03 05:19 13°S06'45 -15°49'32 retrograde retrograde min. Earth dist. 6325 Dec 26 03 09:41 6°S29'21 direct direct 6334 Mar 25 22:55 12°S08'20 opposition opposition direct 6325 Dec 26 14:39 direct 5°S29'36 -16°33'05 conjunction minimum elong minimum elong minimum elong minimum elong max. Earth dist. 6334 Jul 02 00:21 direct 13°S33'46 direct -15°09'17 direct				•		
conjunction 6325 Jun 23 02:11 4°S59'34 -15°56'10 retrograde 6333 Oct 11 05:06 14°S06'08 minimum elong 6325 Jun 23 02:19 4°S59'35 15°56'13 min. Earth dist. 6334 Jan 02 07:44 13°S07'46 48.42937 AU max. Earth dist. 6325 Jun 24 10:55 5°S01'27 50.10020 AU opposition 6334 Jan 03 05:19 13°S06'45 -15°49'32 retrograde 6325 Oct 03 09:41 6°S29'21 direct 6334 Mar 25 22:55 12°S08'20 min. Earth dist. 6325 Dec 25 08:18 5°S31'02 48.20455 AU conjunction 6334 Jul 02 00:13 13°S33'46 -15°09'17 direct 6326 Mar 18 09:32 4°S30'55 conjunction 6334 Jul 02 00:13 13°S33'46 -15°09'19 max. Earth dist. 6334 Jul 02 00:21 13°S35'01 50.36118 AU	direct	5525 War 17 00.50	5 -55 15	· ·		
minimum elong max. Earth dist. 6325 Jun 23 02:19 4°\$59'35 15°56'13 min. Earth dist. 6334 Jan 02 07:44 13°\$07'46 48.42937 AU max. Earth dist. 6325 Jun 24 10:55 5°\$01'27 50.10020 AU opposition 6334 Jan 03 05:19 13°\$06'45 -15°49'32 retrograde 6325 Oct 03 09:41 6°\$29'21 direct 6334 Mar 25 22:55 12°\$08'20 min. Earth dist. 6325 Dec 25 08:18 5°\$31'02 48.20455 AU opposition 6325 Dec 26 14:39 5°\$29'36 -16°33'05 conjunction 6334 Jul 02 00:13 13°\$33'46 -15°09'17 direct 6326 Mar 18 09:32 4°\$30'55 minimum elong 6334 Jul 02 02:16 13°\$35'01 50.36118 AU	conjunction	6325 Jun 22 02-11	100050121 1505611			
max. Earth dist. 6325 Jun 24 10:55 5°S01'27 50.10020 AU opposition opposition direct 6334 Jan 03 05:19 13°S06'45 -15°49'32 13°S06'45 -15°49'32 retrograde min. Earth dist. opposition opposition direct 6325 Dec 25 08:18 5°S31'02 48.20455 AU opposition 6325 Dec 26 14:39 5°S29'36 -16°33'05 conjunction minimum elong max. Earth dist. 6334 Jul 02 00:13 13°S33'46 -15°09'17 13°S33'46 -15°09'17 direct 6326 Mar 18 09:32 4°S30'55 minimum elong max. Earth dist. 6334 Jul 02 00:21 13°S35'01 50.36118 AU 13°S35'01 50.36118 AU				•		
retrograde 6325 Oct 03 09:41 6°\$29'21 direct 6334 Mar 25 22:55 12°\$08'20 min. Earth dist. 6325 Dec 25 08:18 5°\$31'02 48.20455 AU opposition 6325 Dec 26 14:39 5°\$29'36 -16°33'05 conjunction 6334 Jul 02 00:13 13°\$33'46 -15°09'17 direct 6326 Mar 18 09:32 4°\$30'55 minimum elong 6334 Jul 02 00:21 13°\$33'46 15°09'19 max. Earth dist. 6334 Jul 02 22:16 13°\$35'01 50.36118 AU	•					
min. Earth dist. 6325 Dec 25 08:18 5°\$31'02 48.20455 AU opposition 6325 Dec 26 14:39 5°\$29'36 -16°33'05 conjunction 6334 Jul 02 00:13 13°\$33'46 -15°09'17 direct 6326 Mar 18 09:32 4°\$30'55 minimum elong 6334 Jul 02 00:21 13°\$33'46 15°09'19 max. Earth dist. 6334 Jul 02 22:16 13°\$35'01 50.36118 AU						
opposition 6325 Dec 26 14:39 5°\$29'36 -16°33'05 conjunction 6334 Jul 02 00:13 13°\$33'46 -15°09'17 direct 6326 Mar 18 09:32 4°\$30'55 minimum elong 6334 Jul 02 00:21 13°\$33'46 15°09'19 max. Earth dist. 6334 Jul 02 22:16 13°\$35'01 50.36118 AU	-				0554 War 25 22:55	12 200 20
direct 6326 Mar 18 09:32 4°S30'55 minimum elong 6334 Jul 02 00:21 13°S33'46 15°09'19 max. Earth dist. 6334 Jul 02 22:16 13°S35'01 50.36118 AU					6224 I-1 02 00 12	129622147 1500015
max. Earth dist. 6334 Jul 02 22:16 13°535'01 50.36118 AU	• •			3		
	direct	0326 Mar 18 09:32	4~50'55	_		
conjunction 6526 Jun 24 07:25 5°957'09 -15°51'51 retrograde 6334 Oct 12 10:01 15°9602'29		(20(1 24.07.27	50 6 5500 1505111			
	conjunction	0326 Jun 24 07:23	ე~ლე/109 -15~51¦ე	retrograde	6554 Oct 12 10:01	13~2002729

1 iunetury 1 nen	Jinena of Fraco from	S (01), 1131100101131110		o, page 10
opposition	6335 Jan 04 09:52	14°903'07 -15°43'04	retrograde	6341 Oct 18 18:11	21°936'14
min. Earth dist.	6335 Jan 03 12:39	14°904'06 48.43734 AU	opposition	6342 Jan 10 16:52	20°537'09 -14°50'58
direct	6335 Mar 27 02:13	13° 5 04'43	min. Earth dist.	6342 Jan 10 02:22	20°537'50 48.39818 AU
			direct	6342 Apr 02 12:05	19° 5 38'57
conjunction	6335 Jul 03 05:09	14°930'04 -15°02'57	evening set	6342 Jul 04 12:35	20°957'17
minimum elong	6335 Jul 03 05:19	14°930'04 15°03'00			
max. Earth dist.	6335 Jul 04 02:52	14°531'18 50.36844 AU	conjunction	6342 Jul 09 15:06	21°504'12 -14°12'03
retrograde	6335 Oct 13 12:15	15° © 58'43	minimum elong	6342 Jul 09 15:18	21°504'12 14°12'06
opposition	6336 Jan 05 14:19	14°959'23 -15°36'21	max. Earth dist.	6342 Jul 10 04:51	21°504'58 50.32334 AU
min. Earth dist.	6336 Jan 04 18:46	15°500'17 48.44207 AU	0	6342 Jul 14 18:22	21°©11'10
direct	6336 Mar 27 09:26	14° © 00'59	retrograde	6342 Oct 20 01:41	22° © 32'39
evening set	6336 Jul 02 00:09	15° © 24'22	opposition	6343 Jan 11 21:23	21°933'35 -14°42'39
			min. Earth dist.	6343 Jan 11 08:59	21°534'10 48.37458 AU
conjunction	6336 Jul 03 10:00	15°\$26'17 -14°56'22	direct	6343 Apr 03 15:28	20°\$35'22
minimum elong	6336 Jul 03 10:09	15°526'17 14°56'24	evening set	6343 Jul 05 07:51	21° © 53'08
morning rise	6336 Jul 04 20:11	15°528'13		(242 1 1 10 20 00	222500126 14002156
max. Earth dist.	6336 Jul 04 07:05	15°527'29 50.37281 AU	•	6343 Jul 10 20:09	22°500'36 -14°03'56
retrograde	6336 Oct 13 17:13	16°554'52	minimum elong	6343 Jul 10 20:19 6343 Jul 11 09:33	22°500'36 14°03'58 22°501'21 50.29833 AU
opposition	6337 Jan 05 18:45	15°\$55'35 -15°29'23 15°\$56'30 48.44387 AU	max. Earth dist.	6343 Jul 11 09:33 6343 Jul 16 09:06	22°908'06
min. Earth dist. direct	6337 Jan 04 22:57 6337 Mar 28 14:58	13°936'30 '48.44387 AC	morning rise retrograde	6343 Oct 21 07:22	23°\$29'00
evening set	6337 Jul 02 05:03	14 9 37 13 16° 9 19'13	opposition	6344 Jan 13 01:36	23°\$29'00 22°\$29'57 -14°34'07
evening set	033/Jul 02 03.03	10 301913	min. Earth dist.	6344 Jan 12 14:10	22°S30'28 48.34579 AU
conjunction	6337 Jul 04 14:37	16°\$22'28 -14°49'33	direct	6344 Apr 03 18:04	21° © 31'42
minimum elong	6337 Jul 04 14:47	16°\$22'29 14°49'36	evening set	6344 Jul 05 03:34	22°\$48'56
max. Earth dist.	6337 Jul 05 10:13	16°\$23'35 50.37417 AU	•	0311341 03 03.31	22 3 10 30
morning rise	6337 Jul 07 00:37	16° © 25'46	conjunction	6344 Jul 11 00:56	22°\$56'55 -13°55'37
retrograde	6337 Oct 15 01:53	17° © 51'01	minimum elong	6344 Jul 11 01:08	22°556'56 13°55'39
opposition	6338 Jan 06 23:20	16°951'46 -15°22'10	max. Earth dist.	6344 Jul 11 12:12	22°957'33 50.26856 AU
min. Earth dist.	6338 Jan 06 05:04	16°952'37 48.44267 AU	morning rise	6344 Jul 16 23:08	23°904'56
direct	6338 Mar 29 16:33	15° 9 53'27	retrograde	6344 Oct 21 13:01	24° © 25'17
evening set	6338 Jul 02 17:01	17° © 14'29	opposition	6345 Jan 13 05:54	23°526'12 -14°25'23
			min. Earth dist.	6345 Jan 12 19:09	23°526'42 48.31262 AU
conjunction	6338 Jul 05 19:34	17°918'42 -14°42'30	direct	6345 Apr 04 20:14	22° © 27'55
minimum elong	6338 Jul 05 19:44	17° © 18'42 14°42'32	evening set	6345 Jul 05 23:28	23°5944'40
max. Earth dist.	6338 Jul 06 15:17	17°519'49 50.37245 AU	T		
morning rise	6338 Jul 08 22:34	17°9522'56	conjunction	6345 Jul 12 05:43	23°953'08 -13°47'05
retrograde	6338 Oct 16 06:40	18° © 47'12	minimum elong	6345 Jul 12 05:53	23°953'09 13°47'07
min. Earth dist.	6339 Jan 07 10:02	17°548'50 48.43803 AU		6345 Jul 12 16:27	23°953'44 50.23455 AU
opposition	6339 Jan 08 03:38	17°5648'01 -15°14'42	morning rise	6345 Jul 18 12:46	24° © 01'39
direct	6339 Mar 30 20:25	16°5549'44	retrograde	6345 Oct 22 14:25	25°521'28
evening set	6339 Jul 03 07:50	18° © 09'58	opposition	6346 Jan 14 10:16	24°\$22'22 -14°16'24
	(220 1 1 07 00 22	10061450 14025112	min. Earth dist.	6346 Jan 14 01:17	24°522'47 48.27548 AU
conjunction minimum elong	6339 Jul 07 00:23 6339 Jul 07 00:33	18°5014'59 -14°35'12	direct evening set	6346 Apr 06 02:55	23°524'03
max. Earth dist.	6339 Jul 07 00:33	18°914'59 14°35'15 18°915'59 50.36714 AU	Č	6346 Jul 06 20:02	24°\$40'19
morning rise	6339 Jul 10 17:28	18°\$20'01	conjunction	6346 Jul 13 10:37	24°549'15 -13°38'19
retrograde	6339 Oct 17 10:35	19° © 43'28	minimum elong	6346 Jul 13 10:48	24°549'16 13°38'21
opposition	6340 Jan 09 08:02	18°544'20 -15°07'00	max. Earth dist.	6346 Jul 13 20:39	24°5049'49 50.19701 AU
min. Earth dist.	6340 Jan 08 15:15				24°\$58'15
direct		18°2945 Ub 48 4795 / A L	morning rise	6346 Jul 20 02:01	
		18°945'06 48.42957 AU 17°946'05	Č	6346 Jul 20 02:01 6346 Oct 23 17:12	
	6340 Mar 30 23:37 6340 Jul 03 00:12	18°945'06 48.42957 AC 17°946'05 19°905'37	retrograde	6346 Jul 20 02:01 6346 Oct 23 17:12 6347 Jan 15 14:19	26°\$17'34 25°\$18'26 -14°07'11
evening set	6340 Mar 30 23:37	17° © 46'05	-	6346 Oct 23 17:12	26°917'34
	6340 Mar 30 23:37	17° © 46'05	retrograde opposition	6346 Oct 23 17:12 6347 Jan 15 14:19	26°©17'34 25°©18'26 -14°07'11
evening set	6340 Mar 30 23:37 6340 Jul 03 00:12	17°©46'05 19°©05'37	retrograde opposition min. Earth dist.	6346 Oct 23 17:12 6347 Jan 15 14:19 6347 Jan 15 05:17	26°S17'34 25°S18'26 -14°07'11 25°S18'52 48.23499 AU
evening set	6340 Mar 30 23:37 6340 Jul 03 00:12 6340 Jul 07 05:13	17°546'05 19°505'37 19°511'20 -14°27'42	retrograde opposition min. Earth dist. direct evening set	6346 Oct 23 17:12 6347 Jan 15 14:19 6347 Jan 15 05:17 6347 Apr 07 10:01	26°S17'34 25°S18'26 -14°07'11 25°S18'52 48.23499 AU 24°S20'05
evening set conjunction minimum elong	6340 Mar 30 23:37 6340 Jul 03 00:12 6340 Jul 07 05:13 6340 Jul 07 05:23	17°\$46'05 19°\$05'37 19°\$11'20 -14°27'42 19°\$11'21 14°27'44	retrograde opposition min. Earth dist. direct evening set	6346 Oct 23 17:12 6347 Jan 15 14:19 6347 Jan 15 05:17 6347 Apr 07 10:01	26°S17'34 25°S18'26 -14°07'11 25°S18'52 48.23499 AU 24°S20'05
evening set conjunction minimum elong max. Earth dist.	6340 Mar 30 23:37 6340 Jul 03 00:12 6340 Jul 07 05:13 6340 Jul 07 05:23 6340 Jul 07 22:21	17°\$46'05 19°\$05'37 19°\$11'20 -14°27'42 19°\$11'21 14°27'44 19°\$12'18 50.35750 AU	retrograde opposition min. Earth dist. direct evening set	6346 Oct 23 17:12 6347 Jan 15 14:19 6347 Jan 15 05:17 6347 Apr 07 10:01 6347 Jul 07 16:45	26°S17'34 25°S18'26 -14°07'11 25°S18'52 48.23499 AU 24°S20'05 25°S35'55
evening set conjunction minimum elong max. Earth dist. morning rise	6340 Mar 30 23:37 6340 Jul 03 00:12 6340 Jul 07 05:13 6340 Jul 07 05:23 6340 Jul 07 22:21 6340 Jul 11 10:48 6340 Oct 17 13:17 6341 Jan 09 12:32	17°\$46'05 19°\$05'37 19°\$11'20 -14°27'42 19°\$11'21 14°27'44 19°\$12'18 50.35750 AU 19°\$17'05	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	6346 Oct 23 17:12 6347 Jan 15 14:19 6347 Jan 15 05:17 6347 Apr 07 10:01 6347 Jul 07 16:45 6347 Jul 14 15:25 6347 Jul 14 15:36 6347 Jul 14 23:43	26°\$17'34 25°\$18'26 -14°07'11 25°\$18'52 48.23499 AU 24°\$20'05 25°\$35'55 25°\$45'18 -13°29'19
evening set conjunction minimum elong max. Earth dist. morning rise retrograde	6340 Mar 30 23:37 6340 Jul 03 00:12 6340 Jul 07 05:13 6340 Jul 07 05:23 6340 Jul 07 22:21 6340 Jul 11 10:48 6340 Oct 17 13:17 6341 Jan 09 12:32 6341 Jan 08 21:45	17°\$46'05 19°\$05'37 19°\$11'20 -14°27'42 19°\$11'21 14°27'44 19°\$12'18 50.35750 AU 19°\$17'05 20°\$39'49	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	6346 Oct 23 17:12 6347 Jan 15 14:19 6347 Jan 15 05:17 6347 Apr 07 10:01 6347 Jul 07 16:45 6347 Jul 14 15:25 6347 Jul 14 15:36	26°\$17'34 25°\$18'26 -14°07'11 25°\$18'52 48.23499 AU 24°\$20'05 25°\$35'55 25°\$45'18 -13°29'19 25°\$45'19 13°29'21
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	6340 Mar 30 23:37 6340 Jul 03 00:12 6340 Jul 07 05:13 6340 Jul 07 05:23 6340 Jul 07 22:21 6340 Jul 11 10:48 6340 Oct 17 13:17 6341 Jan 09 12:32 6341 Jan 08 21:45 6341 Apr 01 06:23	17°\$46'05 19°\$05'37 19°\$11'20 -14°27'42 19°\$11'21 14°27'44 19°\$12'18 50.35750 AU 19°\$17'05 20°\$39'49 19°\$40'43 -14°59'06 19°\$41'24 48.41642 AU 18°\$42'30	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	6346 Oct 23 17:12 6347 Jan 15 14:19 6347 Jan 15 05:17 6347 Apr 07 10:01 6347 Jul 07 16:45 6347 Jul 14 15:25 6347 Jul 14 23:43 6347 Jul 14 23:43 6347 Jul 21 15:05 6347 Oct 25 01:05	26°S17'34 25°S18'26 -14°07'11 25°S18'52 48.23499 AU 24°S20'05 25°S35'55 25°S45'18 -13°29'19 25°S45'19 13°29'21 25°S45'46 50.15621 AU 25°S54'45 27°S13'37
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	6340 Mar 30 23:37 6340 Jul 03 00:12 6340 Jul 07 05:13 6340 Jul 07 05:23 6340 Jul 07 22:21 6340 Jul 11 10:48 6340 Oct 17 13:17 6341 Jan 09 12:32 6341 Jan 08 21:45	17°\$46'05 19°\$05'37 19°\$11'20 -14°27'42 19°\$11'21 14°27'44 19°\$12'18 50.35750 AU 19°\$17'05 20°\$39'49 19°\$40'43 -14°59'06 19°\$41'24 48.41642 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	6346 Oct 23 17:12 6347 Jan 15 14:19 6347 Jan 15 05:17 6347 Apr 07 10:01 6347 Jul 07 16:45 6347 Jul 14 15:25 6347 Jul 14 23:43 6347 Jul 14 23:43 6347 Jul 21 15:05 6347 Oct 25 01:05 6348 Jan 16 18:39	26°S17'34 25°S18'26 -14°07'11 25°S18'52 48.23499 AU 24°S20'05 25°S35'55 25°S45'18 -13°29'19 25°S45'19 13°29'21 25°S45'46 50.15621 AU 25°S54'45 27°S13'37 26°S14'28 -13°57'44
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6340 Mar 30 23:37 6340 Jul 03 00:12 6340 Jul 07 05:13 6340 Jul 07 05:23 6340 Jul 07 22:21 6340 Jul 11 10:48 6340 Oct 17 13:17 6341 Jan 09 12:32 6341 Jan 08 21:45 6341 Apr 01 06:23 6341 Jul 03 18:03	17°\$46'05 19°\$05'37 19°\$11'20 -14°27'42 19°\$11'21 14°27'44 19°\$12'18 50.35750 AU 19°\$17'05 20°\$39'49 19°\$40'43 -14°59'06 19°\$41'24 48.41642 AU 18°\$42'30 20°\$01'25	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	6346 Oct 23 17:12 6347 Jan 15 14:19 6347 Jan 15 05:17 6347 Apr 07 10:01 6347 Jul 07 16:45 6347 Jul 14 15:25 6347 Jul 14 23:43 6347 Jul 14 23:43 6347 Jul 21 15:05 6347 Oct 25 01:05 6348 Jan 16 18:39 6348 Jan 16 11:09	26°S17'34 25°S18'26 -14°07'11 25°S18'52 48.23499 AU 24°S20'05 25°S35'55 25°S45'18 -13°29'19 25°S45'19 13°29'21 25°S45'46 50.15621 AU 25°S54'45 27°S13'37 26°S14'28 -13°57'44 26°S14'49 48.19149 AU
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6340 Mar 30 23:37 6340 Jul 03 00:12 6340 Jul 07 05:13 6340 Jul 07 05:23 6340 Jul 07 22:21 6340 Jul 11 10:48 6340 Oct 17 13:17 6341 Jan 09 12:32 6341 Jan 08 21:45 6341 Apr 01 06:23 6341 Jul 03 18:03	17°\$46'05 19°\$05'37 19°\$11'20 -14°27'42 19°\$11'21 14°27'44 19°\$12'18 50.35750 AU 19°\$17'05 20°\$39'49 19°\$40'43 -14°59'06 19°\$41'24 48.41642 AU 18°\$42'30 20°\$01'25 20°\$07'45 -14°19'59	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	6346 Oct 23 17:12 6347 Jan 15 14:19 6347 Jan 15 05:17 6347 Apr 07 10:01 6347 Jul 07 16:45 6347 Jul 14 15:25 6347 Jul 14 15:36 6347 Jul 14 23:43 6347 Jul 21 15:05 6347 Oct 25 01:05 6348 Jan 16 18:39 6348 Jan 16 11:09 6348 Apr 07 13:12	26°S17'34 25°S18'26 -14°07'11 25°S18'52 48.23499 AU 24°S20'05 25°S35'55 25°S45'18 -13°29'19 25°S45'19 13°29'21 25°S45'46 50.15621 AU 25°S54'45 27°S13'37 26°S14'28 -13°57'44 26°S14'49 48.19149 AU 25°S16'05
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	6340 Mar 30 23:37 6340 Jul 03 00:12 6340 Jul 07 05:13 6340 Jul 07 05:23 6340 Jul 07 22:21 6340 Jul 11 10:48 6340 Oct 17 13:17 6341 Jan 09 12:32 6341 Jan 08 21:45 6341 Jul 03 18:03 6341 Jul 08 10:12 6341 Jul 08 10:22	17°\$46'05 19°\$05'37 19°\$01'20 -14°27'42 19°\$11'21 14°27'44 19°\$12'18 50.35750 AU 19°\$17'05 20°\$39'49 19°\$40'43 -14°59'06 19°\$41'24 48.41642 AU 18°\$42'30 20°\$01'25 20°\$07'45 -14°19'59 20°\$07'46 14°20'01	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6346 Oct 23 17:12 6347 Jan 15 14:19 6347 Jan 15 05:17 6347 Apr 07 10:01 6347 Jul 07 16:45 6347 Jul 14 15:25 6347 Jul 14 23:43 6347 Jul 14 23:43 6347 Jul 21 15:05 6347 Oct 25 01:05 6348 Jan 16 18:39 6348 Jan 16 11:09	26°S17'34 25°S18'26 -14°07'11 25°S18'52 48.23499 AU 24°S20'05 25°S35'55 25°S45'18 -13°29'19 25°S45'19 13°29'21 25°S45'46 50.15621 AU 25°S54'45 27°S13'37 26°S14'28 -13°57'44 26°S14'49 48.19149 AU
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6340 Mar 30 23:37 6340 Jul 03 00:12 6340 Jul 07 05:13 6340 Jul 07 05:23 6340 Jul 07 22:21 6340 Jul 11 10:48 6340 Oct 17 13:17 6341 Jan 09 12:32 6341 Jan 08 21:45 6341 Apr 01 06:23 6341 Jul 03 18:03	17°\$46'05 19°\$05'37 19°\$11'20 -14°27'42 19°\$11'21 14°27'44 19°\$12'18 50.35750 AU 19°\$17'05 20°\$39'49 19°\$40'43 -14°59'06 19°\$41'24 48.41642 AU 18°\$42'30 20°\$01'25 20°\$07'45 -14°19'59	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6346 Oct 23 17:12 6347 Jan 15 14:19 6347 Jan 15 05:17 6347 Apr 07 10:01 6347 Jul 07 16:45 6347 Jul 14 15:25 6347 Jul 14 15:36 6347 Jul 14 23:43 6347 Jul 21 15:05 6347 Oct 25 01:05 6348 Jan 16 18:39 6348 Jan 16 11:09 6348 Apr 07 13:12	26°S17'34 25°S18'26 -14°07'11 25°S18'52 48.23499 AU 24°S20'05 25°S35'55 25°S45'18 -13°29'19 25°S45'19 13°29'21 25°S45'46 50.15621 AU 25°S54'45 27°S13'37 26°S14'28 -13°57'44 26°S14'49 48.19149 AU 25°S16'05

minimum elong	6348 Jul 14 20:24	26°5641'19 13°20'08	minimum elong	6354 Jul 21 02:30	2° Ω 19'06 12°19'56
max. Earth dist.	6348 Jul 15 04:48	26°9341'48 50.11255 AU	max. Earth dist.	6354 Jul 21 03:06	2°Ω19'09 49.77817 AU
morning rise	6348 Jul 22 03:41	26°\$51'12	morning rise	6354 Jul 30 04:49	2°Ω31'25
retrograde	6348 Oct 25 06:22	28°\$09'38	retrograde	6354 Oct 31 14:20	3° Ω 47'45
opposition	6349 Jan 16 22:55	27°\$10'29 -13°48'02	opposition	6355 Jan 23 00:58	2°Ω48'34 -12°44'58
min. Earth dist.	6349 Jan 16 15:47	27°©10'48 48.14505 AU	min. Earth dist.	6355 Jan 23 00:19	2°Ω48'36 47.78972 AU
direct	6349 Apr 08 16:44	26°\$12'04	direct	6355 Apr 14 15:14	1°Ω50'02
evening set	6349 Jul 08 10:54	27° © 27'05	evening set	6355 Jul 12 23:51	3° Ω 03'11
		_,, ,	* · · · · · · · · · · · · · · · · · · ·		
conjunction	6349 Jul 16 01:00	27°937'20 -13°10'37	conjunction	6355 Jul 22 07:39	3° Ω 15'49 -12°09'08
minimum elong	6349 Jul 16 01:11	27°937'21 13°10'39	minimum elong	6355 Jul 22 07:51	3°Ω15'50 12°09'11
max. Earth dist.	6349 Jul 16 07:53	27°537'44 50.06613 AU	max. Earth dist.	6355 Jul 22 07:27	3° Ω 15'48 49.70572 AU
morning rise	6349 Jul 23 16:09	27° 5 47'39	morning rise	6355 Jul 31 16:44	3° Ω 28'30
retrograde	6349 Oct 26 11:47	29° 5 05'41	retrograde	6355 Nov 01 17:34	4° Ω 44'32
opposition	6350 Jan 18 03:09	28°506'31 -13°38'06	opposition	6356 Jan 24 05:32	3° Ω 45'18 -12°33'42
min. Earth dist.	6350 Jan 17 20:35	28°506'49 48.09588 AU	min. Earth dist.	6356 Jan 24 06:54	3° Ω 45'15 47.71329 AU
direct	6350 Apr 09 18:49	27° 5 08'06	direct	6356 Apr 14 20:51	2° Ω 46'43
evening set	6350 Jul 09 08:18	28° © 22'45	evening set	6356 Jul 12 22:41	3° Ω 59'36
conjunction	6350 Jul 17 05:56	28°\$33'26 -13°00'54	conjunction	6356 Jul 22 12:47	4° Ω 12'35 -11°58'10
minimum elong	6350 Jul 17 06:07	28°933'26 13°00'57	minimum elong	6356 Jul 22 12:58	4° Ω 12'36 11°58'12
max. Earth dist.	6350 Jul 17 12:19	28°533'47 50.01669 AU	max. Earth dist.	6356 Jul 22 11:33	4° Ω 12'31 49.62839 AU
morning rise	6350 Jul 25 04:36	28°944'10	morning rise	6356 Aug 01 04:06	4° Ω 25'39
	6350 Oct 14 09:56	$0^{\circ}\Omega$	retrograde	6356 Nov 01 20:34	5° Ω 41'23
retrograde	6350 Oct 27 14:26	0° Ω 01'49	opposition	6357 Jan 24 09:57	4° Ω 42'06 -12°22'14
	6350 Nov 09 21:18	30° ₹ 5	min. Earth dist.	6357 Jan 24 11:29	4° Ω 42'02 47.63221 AU
opposition	6351 Jan 19 07:32	29° © 02'39 -13°27'54	direct	6357 Apr 16 03:57	3° Ω 43'27
min. Earth dist.	6351 Jan 19 02:38	29°502'53 48.04342 AU	evening set	6357 Jul 13 21:44	4° Ω 56'04
direct	6351 Apr 11 00:44	28°\$04'13			0
evening set	6351 Jul 10 06:10	29° © 18'33	conjunction	6357 Jul 23 17:59	5° Ω 09'25 -11°46'59
. ,.	(251 1 1 10 10 55	200620120 12050150	minimum elong	6357 Jul 23 18:10	5° Ω 09'25 11°47'02
conjunction	6351 Jul 18 10:55	29°529'38 -12°50'58	max. Earth dist.	6357 Jul 23 14:47	5° Ω 09'14 49.54656 AU 5° Ω 22'51
minimum elong	6351 Jul 18 11:07 6351 Jul 18 16:27	29°529'38 12°51'00	morning rise	6357 Aug 02 15:42	6° Ω 38'17
max. Earth dist. morning rise	6351 Jul 18 16:27	29°529'56 49.96389 AU 29°540'47	retrograde opposition	6357 Nov 03 04:10 6358 Jan 25 14:27	5°Ω38'58 -12°10'31
morning rise	6351 Aug 10 07:38	0°Ω	min. Earth dist.	6358 Jan 25 17:51	5°Ω38'48 47.54705 AU
retrograde	6351 Oct 28 18:19	0° Ω 58'04	direct	6358 Apr 17 07:41	4° Ω 40'15
renograde	6352 Jan 19 12:25	30°Rூ	evening set	6358 Jul 14 20:55	5° Ω 52'37
opposition	6352 Jan 20 11:41	29°\$58'55 -13°17'30	evening set	0550 341 14 20.55	3 063231
min. Earth dist.	6352 Jan 20 06:52	29°559'08 47.98723 AU	conjunction	6358 Jul 24 23:21	6° Ω 06'19 -11°35'35
direct	6352 Apr 11 06:10	29°500'28	minimum elong	6358 Jul 24 23:32	6°Ω06'19 11°35'37
	6352 Jun 29 05:09	$0^{\circ}\Omega$	max. Earth dist.	6358 Jul 24 20:11	6°Ω06'08 49.46094 AU
evening set	6352 Jul 10 04:11	0° Ω 14'30	morning rise	6358 Aug 04 03:02	6° Ω 20'06
C			retrograde	6358 Nov 04 10:39	7° Ω 35'17
conjunction	6352 Jul 18 15:55	0° Ω 25'58 -12°40'49	opposition	6359 Jan 26 18:54	6° Q 35'54 -11°58'35
minimum elong	6352 Jul 18 16:06	0° Ω 25'59 12°40'52	min. Earth dist.	6359 Jan 26 22:48	6° Ω 35'43 47.45819 AU
max. Earth dist.	6352 Jul 18 19:31	0° Ω 26'10 49.90691 AU	direct	6359 Apr 18 10:41	5° Ω 37'07
morning rise	6352 Jul 27 04:54	0° Ω 37'32	evening set	6359 Jul 15 20:21	6° Ω 49'15
retrograde	6352 Oct 29 01:30	1° Ω 54'30			
opposition	6353 Jan 20 16:09	0° Ω 55'20 -13°06'51	conjunction	6359 Jul 26 04:34	7° Ω 03'18 -11°23'57
min. Earth dist.	6353 Jan 20 13:28	0° Ω 55'28 47.92664 AU	minimum elong	6359 Jul 26 04:45	7° Ω 03'19 11°24'00
	6353 Mar 26 08:59	30° ₹ 5	max. Earth dist.	6359 Jul 25 23:34	7° Ω 03'01 49.37191 AU
direct	6353 Apr 12 09:40	29° 9 56'53	morning rise	6359 Aug 05 14:18	7° Ω 17′26
	6353 Apr 29 06:58	$0^{\circ}\Omega$	retrograde	6359 Nov 05 17:09	8° Ω 32′22
evening set	6353 Jul 11 02:25	1° Ω 10'36	opposition	6360 Jan 27 23:21	7° Ω 32'56 -11°46'24
			min. Earth dist.	6360 Jan 28 03:59	7° Q 32'43 47.36621 AU
conjunction	6353 Jul 19 21:05	1°Ω22'28 -12°30'28	direct	6360 Apr 18 13:00	6° Ω 34'05
minimum elong	6353 Jul 19 21:17	1° Ω 22'29 12°30'29	evening set	6360 Jul 15 19:49	7° Ω 46'01
max. Earth dist.	6353 Jul 20 00:21	1° Ω 22'39 49.84519 AU		(2(0 1.1. 2(00 57	00 0 00024 1101200
morning rise	6353 Jul 28 16:51	1° Ω 34'25	conjunction	6360 Jul 26 09:57	8° Ω 00'24 -11°12'06
retrograde	6353 Oct 30 07:44	2° Ω 51'04	minimum elong	6360 Jul 26 10:08	8° Ω 00'25 11°12'07
opposition min. Earth dist.	6354 Jan 21 20:36 6354 Jan 21 18:49	1° Ω 51'54 -12°56'01 1° Ω 51'59 47.86084 AU	max. Earth dist. morning rise	6360 Jul 26 04:24 6360 Aug 06 01:30	8° Ω 00'06 49.27977 AU 8° Ω 14'53
direct	6354 Apr 13 13:07	0°Ω53'25	retrograde	6360 Nov 05 19:32	8° Ω 29'35
evening set	6354 Apr 13 13.07	2° Ω 06'50	opposition	6361 Jan 28 04:00	8° Ω 30'06 -11°33'59
ovening set	555 T 301 12 U1.U/	2 0 COO 30	min. Earth dist.	6361 Jan 28 10:01	8°Ω29'49 47.27123 AU
conjunction	6354 Jul 21 02:19	2° Ω 19'06 -12°19'54	direct	6361 Apr 19 19:27	7° Ω 31'11
2011Junion011	555.541 21 02.17	2 001, 00 12 1,0T		0001.1pt 17 17.21	, 000111

evening set	6361 Jul 16 19:28	8° Ω 42'57		6367 Aug 13 07:46	15° Ω
evening set	0301341 10 17.20	0 004237	morning rise	6367 Aug 15 07:40	15° Ω 02'42
conjunction	6361 Jul 27 15:17	8° Ω 57'40 -10°59'	•	6367 Nov 13 12:08	16°Ω16'13
minimum elong	6361 Jul 27 15:28	8° Ω 57'41 11°00'	Č	6368 Feb 04 14:01	15°Ω16'19 -10°00'21
max. Earth dist.	6361 Jul 27 09:08	8° Ω 57'19 49.184	= =	6368 Feb 05 04:04	15° Ω 15'39 46.50093 AU
morning rise	6361 Aug 07 12:31	9° Ω 12′29		6368 Feb 19 01:12	15°R Ω
retrograde	6361 Nov 06 22:54	10° Ω 26′59	direct	6368 Apr 26 05:50	14° Ω 16'50
opposition	6362 Jan 29 08:35	9° Ω 27'27 -11°21'	18	6368 Jun 30 12:30	15° Ω
min. Earth dist.	6362 Jan 29 14:29	9° Ω 27'11 47.1733	39 AU evening set	6368 Jul 21 23:49	15° Ω 27'38
direct	6362 Apr 21 01:51	8° Ω 28'29			
evening set	6362 Jul 17 19:28	9° Ω 40'04	conjunction	6368 Aug 03 08:23	15° Ω 44'37 -9°28'57
			minimum elong	6368 Aug 03 08:34	15° Ω 44'37 9°28'58
conjunction	6362 Jul 28 20:48	9° £ 55′08 -10°47′	39 max. Earth dist.	6368 Aug 02 17:28	15° Ω 43'45 48.40914 AU
minimum elong	6362 Jul 28 21:00	9° Ω 55'08 10°47'	40 morning rise	6368 Aug 15 18:26	16° Ω 01'41
max. Earth dist.	6362 Jul 28 12:55	9° £ 54'41 49.086	93 AU retrograde	6368 Nov 13 18:50	17° Ω 15′03
morning rise	6362 Aug 08 23:48	10° Ω 10'17	opposition	6369 Feb 04 19:07	16° Ω 15'03 -9°46'04
retrograde	6362 Nov 08 06:01	11° Ω 24'36	min. Earth dist.	6369 Feb 05 09:46	16° Ω 14'21 46.37178 AU
opposition	6363 Jan 30 13:16	10° Ω 25'02 -11°08'	23 direct	6369 Apr 27 10:34	15° Ω 15′25
min. Earth dist.	6363 Jan 30 21:03	$10^{\circ}\Omega$ 24'40 47.072	41 AU evening set	6369 Jul 23 01:13	16° Ω 26′07
direct	6363 Apr 22 06:11	9° Ω 26′00			
evening set	6363 Jul 18 19:36	10° Ω 37′26	conjunction	6369 Aug 04 14:25	16° Ω 43'23 -9°15'04
			minimum elong	6369 Aug 04 14:35	16° Ω 43'24 9°15'05
conjunction	6363 Jul 30 02:33	10° Ω 52'49 -10°35'		6369 Aug 03 21:24	16° Ω 42'25 48.27939 AU
minimum elong	6363 Jul 30 02:44	10° Ω 52′50 10°35′		6369 Aug 17 05:24	17° Ω 00'46
max. Earth dist.	6363 Jul 29 18:34	10° Ω 52′22 48.9850	Č	6369 Nov 15 03:07	18° Ω 14'00
morning rise	6363 Aug 10 10:54	11° Ω 08'19	opposition	6370 Feb 06 00:20	17°Ω13'52 -9°31'33
retrograde	6363 Nov 09 13:02	12° Ω 22'27	min. Earth dist.	6370 Feb 06 16:04	17° Ω 13'07 46.23870 AU
opposition	6364 Jan 31 18:01	11°Ω22'51 -10°55'		6370 Apr 28 13:31	16°Ω14'07
min. Earth dist.	6364 Feb 01 02:23	11° Ω 22′28 46.967′	71 AU evening set	6370 Jul 24 02:48	17° Ω 24'44
direct	6364 Apr 22 10:06	10° Ω 23'46		(250) 05 20 15	150 0 10110 0000155
evening set	6364 Jul 18 19:58	11° Ω 35′04	conjunction	6370 Aug 05 20:47	17° Ω 42'18 -9°00'57
. ,.	(2(4 1 1 20 00 0)	110 0 50147 100221	minimum elong	6370 Aug 05 20:58	17° Ω 42'18 9°00'59
conjunction	6364 Jul 30 08:06	11°Ω50'47 -10°22'		6370 Aug 05 03:04	17° Ω 41'16 48.14577 AU
minimum elong max. Earth dist.	6364 Jul 30 08:17	11° Ω 50'48 10°22' 11° Ω 50'12 48.880	C	6370 Aug 18 16:24	17° Ω 59'58
max. Earth dist.	6364 Jul 29 22:02 6364 Aug 10 21:55	11° δ(50°12° 48.880.	-	6370 Nov 16 07:50 6371 Feb 07 05:32	19° Ω 13'05 18° Ω 12'50 -9°16'47
retrograde	6364 Nov 09 21:53	12 δ 00 30 13° Ω 20'34	opposition min. Earth dist.	6371 Feb 07 03:32 6371 Feb 07 22:45	18°Ω12'01 46.10203 AU
opposition	6365 Jan 31 22:54	13° Ω 20'56 -10°41'.		6371 Apr 29 19:37	17° Ω 12'56
min. Earth dist.	6365 Feb 01 08:22	$12^{\circ}\Omega 20'29 46.858'$		6371 Jul 25 04:38	18° Ω 23'30
direct	6365 Apr 23 11:16	11° Ω 21'46	max. Earth dist.	6371 Aug 06 08:43	18° Ω 40'17 48.00903 AU
evening set	6365 Jul 19 20:35	12° Ω 32'57	max. Earth dist.	03/1 / lug 00 00:43	10 00-10 17 40.00703 110
evening see	0303 341 17 20.33	12 063237	conjunction	6371 Aug 07 03:08	18° Ω 41'21 -8°46'36
conjunction	6365 Jul 31 14:05	12° Ω 48'59 -10°09'	·	6371 Aug 07 03:18	18°Ω41'22 8°46'37
minimum elong	6365 Jul 31 14:15	12° Ω 49'00 10°09'	Č	6371 Aug 20 03:16	18° Ω 59'20
max. Earth dist.	6365 Jul 31 03:02	12° Ω 48'21 48.770		6371 Nov 17 12:08	20° Ω 12'21
morning rise	6365 Aug 12 09:08	13° Ω 05′07	opposition	6372 Feb 08 10:50	19° Ω 11'59 -9°01'45
retrograde	6365 Nov 11 03:32	14° Ω 18′56	min. Earth dist.	6372 Feb 09 03:56	19° Ω 11'10 45.96247 AU
opposition	6366 Feb 02 03:53	13° Ω 19'14 -10°28'	14 direct	6372 Apr 30 02:23	18° Ω 11'57
min. Earth dist.	6366 Feb 02 15:23	13° Ω 18'41 46.744	73 AU evening set	6372 Jul 25 06:29	19° Ω 22'28
direct	6366 Apr 24 15:59	12° Ω 19'58			
evening set	6366 Jul 20 21:34	13° Ω 31′02	conjunction	6372 Aug 07 09:22	19° Ω 40'37 -8°32'01
			minimum elong	6372 Aug 07 09:32	19° Ω 40'38 8°32'03
conjunction	6366 Aug 01 20:10	13° Ω 47'23 -9°56'0.	2 max. Earth dist.	6372 Aug 06 13:20	19° Ω 39'27 47.86939 AU
minimum elong	6366 Aug 01 20:21	13° Ω 47'24 9°56'0	4 morning rise	6372 Aug 20 14:04	19° Ω 58'53
max. Earth dist.	6366 Aug 01 07:47	13° Ω 46'40 48.655	15 AU retrograde	6372 Nov 17 18:50	21° Ω 11'51
morning rise	6366 Aug 13 20:18	14° Ω 03'50	opposition	6373 Feb 08 16:25	20°Ω11'23 -8°46'28
	6366 Oct 02 01:00	15° Ω	min. Earth dist.	6373 Feb 09 11:13	20°Ω10'28 45.82027 AU
retrograde	6366 Nov 12 06:19	15° Ω 17'30	direct	6373 May 01 07:57	19° Ω 11'14
	6366 Dec 23 23:23	15°R€	evening set	6373 Jul 26 08:38	20° Ω 21'43
opposition	6367 Feb 03 08:53	14°Ω17'42 -10°14'			0
min. Earth dist.	6367 Feb 03 20:46	14° Ω 17'09 46.625	•	6373 Aug 08 15:59	20°Ω40'10 -8°17'10
direct	6367 Apr 25 23:41	13° Ω 18′20	minimum elong	6373 Aug 08 16:09	20°Ω40'10 8°17'11
evening set	6367 Jul 21 22:39	14° Ω 29'17	max. Earth dist.	6373 Aug 07 20:06	20° Ω 39'00 47.72729 AU
max. Earth dist.	6367 Aug 02 11:28	14° Ω 45'05 48.534	· ·	6373 Aug 22 00:52	20° € 58'43
	(2(7.4 02.22.11	140 0 4515 2 004515	retrograde	6373 Nov 19 01:34	22° Q 11'39
conjunction	6367 Aug 03 02:11	14° \Omega 45'56 -9°42'3	* *	6374 Feb 09 21:51	21°Ω11'05 -8°30'56
minimum elong	6367 Aug 03 02:21	14° Ω 45'57 9°42'3	7 min. Earth dist.	6374 Feb 10 16:45	21° Ω 10'10 45.67555 AU

direct	6374 May 02 13:22	20° Ω 10'49		retrograde	6380 Nov 26 09:02	29° Ω 21'56	
evening set	6374 Jul 27 11:10	21° Ω 21'18		opposition	6381 Feb 16 16:34	28° Ω 20'36	
				min. Earth dist.	6381 Feb 17 19:55		44.55998 AU
conjunction	6374 Aug 09 22:37	21° Ω 40′03 -	-8°02'04	direct	6381 May 09 02:07	27° Ω 19'23	
minimum elong	6374 Aug 09 22:47	21° Ω 40′03		evening set	6381 Aug 02 12:24	28° Ω 30'19	
max. Earth dist.	6374 Aug 09 00:53	21° Ω 38'47 4	47.58268 AU	max. Earth dist.	6381 Aug 15 20:08	28° Ω 49'13	46.46127 AU
morning rise	6374 Aug 23 11:55	21° Ω 58'54					
retrograde	6374 Nov 20 11:45	23° Ω 11'48		conjunction	6381 Aug 17 02:15	28° Ω 51′00	-6°09'44
opposition	6375 Feb 11 03:33	22° Ω 11′09 -	-8°15'07	minimum elong	6381 Aug 17 02:23	28° Ω 51'01	6°09'46
min. Earth dist.	6375 Feb 11 23:23	22° Ω 10′12	45.52826 AU	morning rise	6381 Aug 31 17:40	29° Ω 11'48	
direct	6375 May 03 15:16	21° Ω 10'47			6381 Oct 10 02:25	0° m	
evening set	6375 Jul 28 13:48	22° Ω 21′18		retrograde	6381 Nov 27 15:56	0° Mp 24'55	
max. Earth dist.	6375 Aug 10 07:16	22° Ω 39'03 ́	47.43510 AU		6382 Jan 15 17:45	30°R Ω	
				opposition	6382 Feb 17 23:01	29° Ω 23'25	-6°17'26
conjunction	6375 Aug 11 05:28	22° Ω 40′21 -	-7°46'44	min. Earth dist.	6382 Feb 19 02:41	29° Ω 22'04	44.38342 AU
minimum elong	6375 Aug 11 05:38	22° Ω 40′21		direct	6382 May 10 09:57	28° Ω 22'00	
morning rise	6375 Aug 24 22:45	22° £ 59′29		evening set	6382 Aug 03 17:12	29°Ω33'03	
retrograde	6375 Nov 21 19:26	24°Ω12'23		max. Earth dist.	6382 Aug 17 02:17		46.28403 AU
opposition	6376 Feb 12 09:21	23°Ω11'40 -	-7°59'03	max. Earth dist.	0302 Hug 17 02.17	27 0632 00	10.20103 110
min. Earth dist.	6376 Feb 13 06:40	23°Ω10'38		conjunction	6382 Aug 18 10:15	29° Ω 54'00	-5°52'44
direct	6376 May 03 20:09	22° Ω 11'11	43.37774710	minimum elong	6382 Aug 18 10:22	29°Ω54'01	
evening set	6376 Jul 28 16:50	23° Ω 21'46		minimum clong	6382 Aug 22 14:31	0° m	3 32 43
evening set	03/0 Jul 28 10.30	23 0621 40		marmina rias	-	رابات 0°10/15′04	
	(27(A 11 12 20	220 0 41105	7021100	morning rise	6382 Sep 02 04:59		
conjunction	6376 Aug 11 12:28	23° Ω 41'05 -		retrograde	6382 Nov 28 22:27	1° Mp 28'16	5050127
minimum elong	6376 Aug 11 12:37	23° Ω 41'06		opposition	6383 Feb 19 05:52	0° m/26'35	
max. Earth dist.	6376 Aug 10 13:13	23° Ω 39'43 4	47.28420 AU	min. Earth dist.	6383 Feb 20 11:28	•	44.20355 AU
morning rise	6376 Aug 25 09:44	24° Ω 00'31			6383 Mar 14 09:22	30°R Ω	
retrograde	6376 Nov 22 00:39	25° Ω 13'26		direct	6383 May 11 17:55	29° Ω 24'58	
opposition	6377 Feb 12 15:12	24° Ω 12'38 -			6383 Jul 07 21:52	0°Щ	
min. Earth dist.	6377 Feb 13 12:48	24° Ω 11'35 4	45.22356 AU	evening set	6383 Aug 04 22:04	0° ™ 36′08	
direct	6377 May 05 03:13	23° Ω 12′02		max. Earth dist.	6383 Aug 18 10:27	0° Mp 55′25	46.10377 AU
evening set	6377 Jul 29 20:11	24° Ω 22'41					
				conjunction	6383 Aug 19 18:22	0° Mp 57′20	
conjunction	6377 Aug 12 19:38	24° Ω 42'17 -		minimum elong	6383 Aug 19 18:30	0° Mp 57′20	5°35'31
minimum elong	6377 Aug 12 19:48	24° Ω 42'18		morning rise	6383 Sep 03 16:02	1° m 18'39	
max. Earth dist.	6377 Aug 11 18:18	24° Ω 40'47 4	47.12904 AU	retrograde	6383 Nov 30 04:45	2°№31'56	
morning rise	6377 Aug 26 20:53	25° Ω 02'00		opposition	6384 Feb 20 12:42	1° ™ 30'05	-5°41'31
retrograde	6377 Nov 23 06:57	26° Ω 14'58		min. Earth dist.	6384 Feb 21 18:15	1° ™ 28'37	44.02086 AU
opposition	6378 Feb 13 21:25	25° Ω 14'03 -	-7°26'10	direct	6384 May 12 02:10	0°₩28'16	
min. Earth dist.	6378 Feb 14 21:13	25° Ω 12'53 ⋅	45.06485 AU	evening set	6384 Aug 05 03:26	1° m 39'34	
direct	6378 May 06 10:38	24° Ω 13′20		max. Earth dist.	6384 Aug 18 16:45	1° m 58'59	45.92094 AU
evening set	6378 Jul 30 23:52	25° Ω 24'02					
max. Earth dist.	6378 Aug 13 01:26	25° Ω 42'24 ́	46.96913 AU	conjunction	6384 Aug 20 02:33	2° mp 01'01	-5°17'59
				minimum elong	6384 Aug 20 02:41	2° m 01'02	5°18'00
conjunction	6378 Aug 14 03:14	25° Ω 43'55 -	-6°59'17	morning rise	6384 Sep 04 03:22	2° m/22'36	
minimum elong	6378 Aug 14 03:23	25° Ω 43'56		retrograde	6384 Nov 30 15:48	3° m 36'00	
morning rise	6378 Aug 28 08:04	26° Ω 03'55		opposition	6385 Feb 20 19:47	2° m 33'58	-5°23'08
retrograde	6378 Nov 24 14:51	27° Ω 16'55		min. Earth dist.	6385 Feb 22 02:26		43.83593 AU
opposition	6379 Feb 15 03:33	26° Ω 15'53 -	-7°09'22	direct	6385 May 13 06:15	1° m) 31'57	
min. Earth dist.	6379 Feb 16 04:00	26° Ω 14'41 -		evening set	6385 Aug 06 08:55	2° m 43'25	
direct	6379 May 07 16:30	25° Ω 15'01	11.50110110	max. Earth dist.	6385 Aug 20 01:05		45.73580 AU
evening set	6379 Aug 01 03:57	26° Ω 25'48		max. Earth dist.	0303 Hug 20 01.03	3 14 03 03	13.73300710
max. Earth dist.	6379 Aug 14 06:31	26° Ω 44'16 4	46 80433 ATT	conjunction	6385 Aug 21 11:05	3° m 05'08	-5°00'13
max. Lartii dist.	03/7 Aug 14 00.51	20 6644 10	40.00433 AO	minimum elong	6385 Aug 21 11:12	3°100'08	
agnismation	6270 Aug 15 10:47	26° Ω 45'57 -	6942101		-	-•	3 00 13
conjunction	6379 Aug 15 10:47	26° Ω 45'57		morning rise	6385 Sep 05 14:36	3° Mp 26'57	
minimum elong	6379 Aug 15 10:56		0 43 02	retrograde	6385 Dec 02 02:03	4° Mp 40'30	5004120
morning rise	6379 Aug 29 19:24	27° Ω 06'13		opposition	6386 Feb 22 03:09	3°Mp38'18	
retrograde	6379 Nov 26 01:13	28° Ω 19'15	(052110	min. Earth dist.	6386 Feb 23 10:46		43.64868 AU
opposition	6380 Feb 16 09:58	27° Ω 18'05 -		direct	6386 May 14 11:46	2° Mp 36'05	
min. Earth dist.	6380 Feb 17 11:53	27° Ω 16'49 •	44./3282 AU	evening set	6386 Aug 07 14:58	3° Mp 47'45	45.54050 :==
direct	6380 May 07 19:41	26° Ω 17'03		max. Earth dist.	6386 Aug 21 08:46	4°11007'35	45.54850 AU
evening set	6380 Aug 01 07:55	27° Ω 27'54					
				conjunction	6386 Aug 22 19:48	4° m 09'43	
conjunction	6380 Aug 15 18:24	27° Ω 48'19 -		minimum elong	6386 Aug 22 19:55	4° ™ 09'43	4°42'12
minimum elong	6380 Aug 15 18:32	27° Ω 48'19		morning rise	6386 Sep 07 02:04	4°₩31'46	
max. Earth dist.	6380 Aug 14 13:21	27° Ω 46'36 4	46.63482 AU	retrograde	6386 Dec 03 11:37	5° ™ 45'29	
morning rise	6380 Aug 30 06:24	28° Ω 08'51		opposition	6387 Feb 23 10:29	4° Mp 43′07	-4°45'34

				,,		, 10	
min. Earth dist.	6387 Feb 24 18:13	4° m 41'32	43.45924 AU	morning rise	6393 Sep 15 12:39	12° m 22'01	
direct	6387 May 15 18:17	3° m 40'44		retrograde	6393 Dec 11 06:57	13° m) 37'27	
evening set	6387 Aug 08 21:22	4° m 52'38		opposition	6394 Mar 02 21:10	12° m) 33'46	-2°25'36
max. Earth dist.	6387 Aug 22 16:10	5° m 12'36	45.35863 AU	min. Earth dist.	6394 Mar 04 12:58	12° mp 31'43	42.03013 AU
	C	·		direct	6394 May 23 05:42	11° m 29'50	
conjunction	6387 Aug 24 04:44	5° Mp 14'50	-4°23'55	evening set	6394 Aug 16 05:38	12° m 43'52	
minimum elong	6387 Aug 24 04:50	5° m 14'50		max. Earth dist.	6394 Aug 30 04:46	-•	43.92081 AU
morning rise	6387 Sep 08 13:34	5° m 37'08					
retrograde	6387 Dec 04 19:07	6° m 51'02		conjunction	6394 Sep 01 02:41	13° m 07'39	-2°09'01
opposition	6388 Feb 24 18:17	5° m 48'31	-4°26'22	minimum elong	6394 Sep 01 02:45	13° m 07'39	
min. Earth dist.	6388 Feb 26 03:52		43.26709 AU	morning rise	6394 Sep 17 00:53	13° m) 31'32	2 0, 01
direct	6388 May 16 03:24	4° mp 45'57	.5.20,05110	retrograde	6394 Dec 12 17:59	14° m) 47'18	
evening set	6388 Aug 09 03:56	5° m 58'06		opposition	6395 Mar 04 06:23	13° m) 43'23	-2°04'32
max. Earth dist.	6388 Aug 23 01:16	-	45.16581 AU	min. Earth dist.	6395 Mar 05 23:52		41.81075 AU
max. Earth dist.	03007146 23 01.10	o ny ro ro	13.10301710	direct	6395 May 24 13:29	12° m) 39'10	11.01073110
conjunction	6388 Aug 24 13:52	6° ™ 20'33	-4°05'23	evening set	6395 Aug 17 15:15	13° m 53'35	
minimum elong	6388 Aug 24 13:58	6° m 20'33		max. Earth dist.	6395 Aug 31 15:47	-	43.70051 AU
morning rise	6388 Sep 09 00:58	6° Mp 43'06	7 03 27	max. Earth dist.	03/3 / Nug 31 13.4/	טר דו אווי דו	45.70051710
retrograde	6388 Dec 05 02:40	7° My 57'13		conjunction	6395 Sep 02 13:44	14° m 17'34	-1°48'45
opposition	6389 Feb 25 02:10	6° Mp 54'33	-4°06'55	minimum elong	6395 Sep 02 13:47	14° Mp 17'35	
min. Earth dist.	6389 Feb 26 12:01		43.07158 AU	morning rise	6395 Sep 18 12:59	14° Mp 41'39	1 4043
direct	6389 May 17 12:35	5° Mp 51'48	43.07136 AC	retrograde	6395 Dec 14 05:43	15° Mp 57'47	
evening set	6389 Aug 10 11:18	7° Mp 04'12		opposition	6396 Mar 04 15:57	13 m/ 57 47 14° m/ 53'37	10/2/12
max. Earth dist.	6389 Aug 24 08:17		44.96916 AU	min. Earth dist.	6396 Mar 06 10:00	~	41.58886 AU
max. Earth dist.	0309 Aug 24 00.17	/ III/2429	44.90910 AU	direct	6396 May 24 21:07	13° Mp 49'08	41.38880 AU
conjunction	6389 Aug 25 23:21	7° m 26'54	2016127	evening set	6396 Aug 18 01:17	15° Mp 03'57	
minimum elong	6389 Aug 25 23:26	7° Mg 26'54		max. Earth dist.	6396 Sep 01 01:27	-•	43.47806 AU
morning rise	6389 Sep 10 12:51	7° Mp 49'41	3 40 38	max. Earth dist.	0390 Sep 01 01.27	13 11/23 08	43.47800 AU
-	6389 Dec 06 14:12	9° My 04'03		conjunction	6396 Sep 03 00:45	15° m 28'09	1020112
retrograde opposition	6390 Feb 26 10:17	8°M)01'12	2047!11	minimum elong	6396 Sep 03 00:48	15° Tb 28'09	
min. Earth dist.	6390 Feb 27 21:59		-3 4711 42.87207 AU	morning rise	6396 Sep 19 01:11	15° My 52'25	1 2014
direct	6390 May 18 18:02	6° Mp 58'15	42.87207 AU	retrograde	6396 Dec 14 19:35	17° Mp 08'55	
evening set	6390 Aug 11 18:58	8° Mp 10'57		opposition	6397 Mar 06 01:43	16° Mp 04'31	1021125
max. Earth dist.	6390 Aug 25 17:27	-	44.76806 AU	min. Earth dist.	6397 Mar 07 20:10	-	41.36513 AU
max. Earth dist.	0390 Aug 23 17.27	0 III 3124	44.70800 AU	direct	6397 May 26 04:02	14° Mp 59'46	41.30313 AU
conjunction	6390 Aug 27 09:17	8° m 33'52	2027125	evening set	6397 Aug 19 11:55	16° M) 15'02	
minimum elong	6390 Aug 27 09:17	8° Mp 33'52		max. Earth dist.	6397 Sep 02 12:01	-•	43.25367 AU
morning rise	6390 Sep 12 00:42	8° Mp 56'53	3 27 30	max. Lartii dist.	0377 Sep 02 12.01	10 11/2020	43.23307 AC
retrograde	6390 Dec 08 00:48	10° mp 11'30		conjunction	6397 Sep 04 12:20	16° m 39'25	-1°07'27
opposition	6391 Feb 27 18:44	9° m 08'29	-3°27'11	minimum elong	6397 Sep 04 12:20	16° m ₂ 39'25	
min. Earth dist.	6391 Mar 01 07:40	•	42.66789 AU	morning rise	6397 Sep 04 12:22 6397 Sep 20 13:31	17° Mp 03'53	1 07 20
direct	6391 May 20 01:41	8° Mp 05'18	42.00707110	retrograde	6397 Dec 16 07:08	18° Mp 20'47	
evening set	6391 Aug 13 03:01	9°Mp18'18		opposition	6398 Mar 07 11:47	17° Mp 16'08	-0°50'/1
max. Earth dist.	6391 Aug 27 01:43		44.56241 AU	min. Earth dist.	6398 Mar 09 07:40		41.13971 AU
max. Earth dist.	03)1 / lug 2/ 01.43) ii(3032	44.50241710	direct	6398 May 27 15:15	16° Mp 11'07	41.137/1710
conjunction	6391 Aug 28 19:12	9° m 41'27	-3°08'19	evening set	6398 Aug 20 23:03	17° m) 26'53	
minimum elong	6391 Aug 28 19:16	9° Mp 41'27		max. Earth dist.	6398 Sep 03 23:50		43.02779 AU
morning rise	6391 Sep 13 12:37	10° mp 04'41	3 00 20	man. Bartir dist.	0370 Sep 03 23.50	17	10.02779110
retrograde	6391 Dec 09 12:43	11° m) 19'33		conjunction	6398 Sep 06 00:15	17° m) 51'27	-0°46'26
opposition	6392 Feb 29 03:19	10° m/ 16'20	-3°06'56	minimum elong	6398 Sep 06 00:16	17° Mp 51'27	
min. Earth dist.	6392 Mar 01 16:56		42.45928 AU	morning rise	6398 Sep 22 02:03	18° Mp 16'05	0 1027
direct	6392 May 20 09:29	9° m 12'54	.26,20110	retrograde	6398 Dec 17 18:07	19° m 33'26	
evening set	6392 Aug 13 11:29	10° Mp 26'14		opposition	6399 Mar 08 22:07	18° m) 28'34	-0°37'32
max. Earth dist.	6392 Aug 27 10:11	-	44.35226 AU	min. Earth dist.	6399 Mar 10 17:45	-	40.91278 AU
man. Darun dibe.	03721148 27 10.11	10 19 1001	55220110	direct	6399 May 29 03:37	17° m/23'16	10.912,0110
conjunction	6392 Aug 29 05:28	10° m 49'36	-2°48'48	evening set	6399 Aug 22 10:43	18° m) 39'33	
minimum elong	6392 Aug 29 05:32	10° m 49'37		max. Earth dist.	6399 Sep 05 09:56		42.80014 AU
morning rise	6392 Sep 14 00:36	11° Mg 13'04	0 .0	Dartii dibt.	22 50p 05 07.50	-> .yo103	
retrograde	6392 Dec 09 22:54	12° m) 28'13		conjunction	6399 Sep 07 12:16	19° m)04'18	-0°25'11
opposition	6393 Mar 01 12:11	11° Mp 24'46	-2°46'24	minimum elong	6399 Sep 07 12:16	19° m)04'19	
min. Earth dist.	6393 Mar 03 03:55	-	42.24652 AU	morning rise	6399 Sep 23 14:34	19°M)29'08	3 23 10
direct	6393 May 21 18:50	10° mp 21'05	002 110	retrograde	6399 Dec 19 06:20	20° Mp 46'57	
evening set	6393 Aug 14 20:13	11° Mp 34'45		opposition	6400 Mar 09 08:51	19° Mp 41'51	-0°15'06
max. Earth dist.	6393 Aug 28 20:16	-	44.13828 AU	min. Earth dist.	6400 Mar 11 06:13	-•	40.68408 AU
Zurur dist.	33,5.146 20 20.10	11,5550		direct	6400 May 29 13:21	18° Mp 36'18	.0.00100710
conjunction	6393 Aug 30 15:59	11° m 58'20	-2°29'02	evening set	6400 Aug 22 22:53	19° My 53'08	
minimum elong	6393 Aug 30 16:02	11° mp 58'20		max. Earth dist.	6400 Sep 05 22:35	-•	42.57040 AU
				Zarar dibt.	00 22.00	·· · · · · · · · · · · · · · · · · ·	/ 0 . 0 110

agnismation	6400 Can 00 00:54	20° m 18'03	0902142	annagition	6407 Mar. 19, 21:21	28° m 39'43	2920105
conjunction minimum elong	6400 Sep 08 00:54 6400 Sep 08 00:53	20° m/ 18'03	0°03'44	opposition min. Earth dist.	6407 Mar 18 21:21	-	39.00076 AU
_	-		0-03-44		6407 Mar 21 01:36	-	39.000/6 AU
behind sun begin	6400 Sep 07 18:26	20° m 17'40		direct	6407 Jun 07 21:07	27° m/31'51	
behind sun end	6400 Sep 08 07:20	20° m 18'27		evening set	6407 Sep 02 06:01	28° m 53'18	40.07500 444
morning rise	6400 Sep 24 03:15	20° m/43'03		max. Earth dist.	6407 Sep 15 16:39	29° II) 15'05	40.87529 AU
asc. node	6400 Nov 08 19:04	21° mp 41'31					
retrograde	6400 Dec 19 17:43	22°m/01'23		conjunction	6407 Sep 18 03:27	29° m 19'05	
opposition	6401 Mar 10 19:48	20° Mp 56'03	0°07'35	minimum elong	6407 Sep 18 03:22	29° m 19'05	2°33'24
min. Earth dist.	6401 Mar 12 17:36	20° m 53'37	40.45300 AU	morning rise	6407 Oct 04 00:37	29° m 44'55	
direct	6401 May 31 00:07	19° m 50'14			6407 Oct 13 16:16	0∘ ⊽	
evening set	6401 Aug 24 11:51	21° m 07'38		retrograde	6407 Dec 29 24:00	1° ≏ 07'32	
max. Earth dist.	6401 Sep 07 09:34	21° m)29'18	42.33794 AU	opposition	6408 Mar 19 10:55	0° ჲ 00'04	2°53'31
					6408 Mar 19 12:00	30°R, Mp	
conjunction	6401 Sep 09 13:47	21° Mp 32'43	0°18'08	min. Earth dist.	6408 Mar 21 15:55	29° m 57'08	38.75063 AU
minimum elong	6401 Sep 09 13:47	21°M/32'43	0°18'08	direct	6408 Jun 08 09:35	28° m 51'49	
morning rise	6401 Sep 25 16:19	21° m 57'52			6408 Aug 25 00:40	0∘ 亚	
retrograde	6401 Dec 21 09:50	23° Mp 16'45		evening set	6408 Sep 02 23:19	0° ჲ 14'03	
opposition	6402 Mar 12 07:11	22° m 11'10	0°30'32	max. Earth dist.	6408 Sep 16 07:29	0° £ 35'50	40.62415 AU
min. Earth dist.	6402 Mar 14 06:06	22° m 08'40			r		
direct	6402 Jun 01 07:54	21° m 05'03		conjunction	6408 Sep 18 18:58	0° ჲ 39'55	2°56'40
evening set	6402 Aug 26 01:25	22° m/ 23'04		minimum elong	6408 Sep 18 18:53	0° - 39'55	2°56'40
max. Earth dist.	6402 Sep 08 21:53	-	42.10195 AU	morning rise	6408 Oct 04 14:28	1° ⊆ 05'49	2 30 40
max. Earm dist.	0402 Sep 08 21.55	22 1104447	42.10193 AU	retrograde	6408 Dec 30 18:20	2° £ 29'10	
	6402 Sep 11 03:17	220 m 40!10	0°40'06	=	6409 Mar 21 00:42	2 = 2910 1° £ 21'22	2010110
conjunction	*	22° Mp 48'18		opposition			
minimum elong	6402 Sep 11 03:15	22° Mp 48'18	0°40'05	min. Earth dist.	6409 Mar 23 05:37		38.49989 AU
morning rise	6402 Sep 27 05:24	23° My 13'35		direct	6409 Jun 09 22:23	0° ₽ 12'45	
retrograde	6402 Dec 23 00:59	24° m/33'02		evening set	6409 Sep 04 17:22	1° ≏ 35'51	
opposition	6403 Mar 13 18:57	23° m/27'10	0°53'45	max. Earth dist.	6409 Sep 17 22:21	1° £ 57'35	40.37230 AU
min. Earth dist.	6403 Mar 15 19:36		39.98133 AU				
direct	6403 Jun 02 17:45	22° m 20'44		conjunction	6409 Sep 20 11:02	2° ≏ 01'47	3°20'09
evening set	6403 Aug 27 15:33	23° m/39'23		minimum elong	6409 Sep 20 10:56	2° ≏ 01'47	3°20'10
max. Earth dist.	6403 Sep 10 10:39	24° Mp 01'09	41.86250 AU	morning rise	6409 Oct 06 04:26	2° ≏ 27'44	
				retrograde	6410 Jan 01 11:27	3° ჲ 51'53	
conjunction	6403 Sep 12 17:01	24° m 04'45	1°02'18	opposition	6410 Mar 22 15:11	2° ≏ 43'45	3°43'01
minimum elong	6403 Sep 12 16:59	24° m 04'45	1°02'19	min. Earth dist.	6410 Mar 24 21:33	2° ٩ 40'43	38.24878 AU
morning rise	6403 Sep 28 18:42	24° Mp 30'11		direct	6410 Jun 11 12:09	1° ≏ 34'46	
retrograde	6403 Dec 24 15:18	25° m 50'11		evening set	6410 Sep 06 12:09	2° ≏ 58'48	
opposition	6404 Mar 14 07:01	24° Mp 44'02	1°17'13	max. Earth dist.	6410 Sep 19 15:12	3° ഫ 20'33	40.12027 AU
min. Earth dist.	6404 Mar 16 07:51	24° mp 41'24	39.74035 AU		•		
direct	6404 Jun 03 06:46	23° m/37'16		conjunction	6410 Sep 22 03:35	3° ₽ 24'46	3°43'48
evening set	6404 Aug 28 06:12	24° m 56'34		minimum elong	6410 Sep 22 03:29	3° ₽ 24'45	3°43'49
max. Earth dist.	6404 Sep 10 22:29	-	41.61958 AU	morning rise	6410 Oct 07 18:30	3° ≏ 50'45	
	**************************************			retrograde	6411 Jan 03 02:52	5° ≙ 15'45	
conjunction	6404 Sep 13 06:58	25° m 22'04	1°24'45	opposition	6411 Mar 24 05:54	4° ≙ 07'19	4°08'04
minimum elong	6404 Sep 13 06:55	25° m/22'04	1°24'44	min. Earth dist.	6411 Mar 26 11:47		37.99761 AU
morning rise	6404 Sep 29 08:00	25° Mp 47'36	1 2	direct	6411 Jun 13 04:12	2° £ 57'59	37.55701110
retrograde	6404 Dec 25 04:47	27° mp 08'13		evening set	6411 Sep 08 07:51	4° £ 22'58	
opposition	6405 Mar 15 19:34	26° Mp 01'45	1°40'56	max. Earth dist.	6411 Sep 21 06:25		39.86808 AU
min. Earth dist.			39.49621 AU	max. Earth dist.	0411 Sep 21 00.23	4 ==44 30	39.80808 AU
	6405 Mar 17 22:22	-	39.49021 AU		C411 C 22 20-21	49 0 4950	4907127
direct	6405 Jun 04 20:11	24° m 54'37		conjunction	6411 Sep 23 20:31	4° Ω 48'59	
evening set	6405 Aug 29 21:29	26° Mp 14'36	41.00001.477	minimum elong	6411 Sep 23 20:24	4° £ 48'58	4°07'38
max. Earth dist.	6405 Sep 12 13:02	26° III) 36'24	41.37371 AU	morning rise	6411 Oct 09 08:52	5° ₽ 14'59	
				retrograde	6412 Jan 04 20:08	6° ≙ 40'54	
conjunction	6405 Sep 14 21:32	26° Mp 40'13	1°47'25	opposition	6412 Mar 24 21:15	5° ≏ 32'10	
minimum elong	6405 Sep 14 21:29	26° Mp 40'13	1°47'25	min. Earth dist.	6412 Mar 27 04:24		37.74635 AU
morning rise	6405 Sep 30 21:29	27° Mp 05'52		direct	6412 Jun 13 17:32	4° ي 22'29	
retrograde	6405 Dec 26 17:00	28° m 27'05		evening set	6412 Sep 09 04:07	5° ഫ 48'30	
opposition	6406 Mar 17 08:12	27° m 20'18	2°04'53	max. Earth dist.	6412 Sep 22 00:16	6° ≙ 10′08	39.61540 AU
min. Earth dist.	6406 Mar 19 11:13	27° m 17'31	39.24944 AU				
direct	6406 Jun 06 10:12	26° Mp 12'48		conjunction	6412 Sep 24 14:02	6° ₽ 14'31	4°31'36
evening set	6406 Aug 31 13:35	27° m 33'30		minimum elong	6412 Sep 24 13:54	6° ≏ 14'30	4°31'36
max. Earth dist.	6406 Sep 14 01:47	27° m 55'14	41.12544 AU	morning rise	6412 Oct 09 23:12	6° ₽ 40'32	
				retrograde	6413 Jan 05 13:09	8° ≏ 07'26	
conjunction	6406 Sep 16 12:19	27° m 59'12	2°10'18	opposition	6413 Mar 26 13:05	6° ₽ 58'23	4°58'43
minimum elong	6406 Sep 16 12:15	27° m 59'12		min. Earth dist.	6413 Mar 28 20:39		37.49434 AU
morning rise	6406 Oct 02 11:11	28° m) 24'57		direct	6413 Jun 15 07:37	5° ≏ 48'21	
retrograde	6406 Dec 28 08:50	29° m/46'51		evening set	6413 Sep 11 01:40	7° £ 15'27	
J		4		<i>5</i> = - *	т	/	

max. Earth dist.	6413 Sep 23 16:51	7° £ 36'55 39.3616		6420 Apr 08 07:52	17° ♀ 37'22 35.69263 AU 16° ♀ 28'00
aaniumatian	6412 Can 26 00:00	7° - 41'27 4°55'42	direct	6420 Jun 25 07:01 6420 Sep 23 10:04	18° ♀ 04'00
conjunction minimum elong	6413 Sep 26 08:09 6413 Sep 26 08:00	7° 2 41'26 4°55'43	C	6420 Oct 04 09:56	18° £ 23'53 37.54512 AU
morning rise	6413 Oct 11 14:06	8° 2 07'27	max. Earth dist.	0420 OCI 04 09.30	16 = 25 55 57.54512 AU
retrograde	6414 Jan 07 09:44	8 = 0727 9° ⊆ 35'22	conjunction	6420 Oct 07 06:49	18° ♀ 29'07 7°47'14
-	6414 Mar 28 05:17	9 ≗ 33 22 8° ≗ 26'01 5°24'17	·	6420 Oct 07 06:34	18° £ 29'07
opposition min. Earth dist.	6414 Mar 30 13:38	8° <u>₽</u> 22'48 37.2411	· ·	6420 Oct 07 06:34 6420 Oct 21 02:28	18° £ 2906 / 4/16 18° £ 54'11
direct	6414 Jun 16 21:01	8 = 22 48 37.24110 7° Ω 15'37	retrograde	6421 Jan 18 12:39	20° £ 30′26
	6414 Sep 13 00:02	8° - 43'51		6421 Apr 07 15:03	20 2 30 26 19° 2 18'24 8°26'27
evening set max. Earth dist.	•	9° 2 05'10 39.1061	opposition 8 AU min. Earth dist.	*	19° 2 1824 8 2027 19° 2 14'45 35.43416 AU
max. Earm dist.	6414 Sep 25 10:36	9 == 03 10 39.1001	direct	6421 Apr 10 03:56 6421 Jun 27 01:52	19 2 1445 33.43416 AU 18° 2 04'55
aaniumatian	6414 Cap 29 02:50	9° ჲ 09'49 5°19'57		6421 Sep 25 15:20	18 2 0433 19° 2 42′26
conjunction	6414 Sep 28 02:59		Č	•	
minimum elong morning rise	6414 Sep 28 02:49 6414 Oct 13 05:04	9° £ 09'48 5°19'58 9° £ 35'46	max. Earth dist.	6421 Oct 06 08:04	20° £ 01'58 37.28507 AU
Č	6415 Jan 09 06:23	9 ≥ 33 46 11° ♀ 04'44	aaniumatian	6421 Oct 09 05:37	20° ♀ 07'17 8°11'52
retrograde	6415 Mar 29 22:18	9° 2 55'03 5°50'01	conjunction minimum elong		20° ⊆ 07'17 8 11'32 20° ⊆ 07'16 8°11'52
opposition			•	6421 Oct 09 05:21	20° ⊆ 32'05
min. Earth dist.	6415 Apr 01 08:09	9° 2 51'44 36.9861:	Č	6421 Oct 22 18:36 6422 Jan 20 12:56	_,
direct	6415 Jun 18 13:11	8° ≏ 44'16	retrograde		22° ♀ 09'46
evening set	6415 Sep 14 23:14	10° △ 13'41	opposition	6422 Apr 09 11:58	20° ♀ 57'18 8°52'37
max. Earth dist.	6415 Sep 27 05:16	10° △ 34'52 38.8489		6422 Apr 12 01:53	20° ♀ 53'35 35.17717 AU
	6415 G 20 22 07	100 0 20125 5044110	direct	6422 Jun 28 21:23	19° △ 43'22
conjunction	6415 Sep 29 22:07	10° △ 39'35 5°44'19	C	6422 Sep 27 21:47	21° £ 22'28
minimum elong	6415 Sep 29 21:56	10° △ 39'34 5°44'19	max. Earth dist.	6422 Oct 08 07:59	21° ≙ 41'41 37.02684 AU
morning rise	6415 Oct 14 20:09	11° △ 05'27		(422 0 + 11 05 00	210 0 47101 002 (124
retrograde	6416 Jan 11 04:31	12° △ 35'32	conjunction	6422 Oct 11 05:00	21° ♀ 47'01 8°36'24
opposition	6416 Mar 30 15:42	11° £ 25'29 6°15'52	U	6422 Oct 11 04:44	21° △ 47'00 8°36'26
min. Earth dist.	6416 Apr 02 01:26	11° £ 22'09 36.7294	Č	6422 Oct 24 10:51	22° △ 11'31
direct	6416 Jun 19 07:14	10° £ 14'18	retrograde	6423 Jan 22 13:50	23° ⊆ 50'41
evening set	6416 Sep 15 23:29	11° £ 44'56	opposition	6423 Apr 11 09:30	22° △ 37'49 9°18'43
max. Earth dist.	6416 Sep 27 23:10	12° £ 05'50 38.5897		6423 Apr 13 22:29	22° △ 34'08 34.92219 AU
	(4160 20 17.56	120 2 10144 (000147	direct	6423 Jun 30 19:27	21° £ 23'26
conjunction	6416 Sep 30 17:56	12° 2 10'44 6°08'47	C	6423 Sep 30 05:15	23° ♀ 04'13
minimum elong	6416 Sep 30 17:45	12° △ 10'43 6°08'48	max. Earth dist.	6423 Oct 10 06:44	23° £ 22′56 36.77055 AU
morning rise	6416 Oct 15 11:34	12° 2 36'31		6423 Oct 13 04:52	220 0 20125 0000151
retrograde	6417 Jan 12 00:13	14° ♀ 07'43 12° ♀ 57'18 6°41'51	conjunction		23°\(\Omega\)28'25 9°00'51 23°\(\Omega\)28'24 9°00'52
opposition min. Earth dist.	6417 Apr 01 09:39 6417 Apr 03 21:16	12 2 57 18 6 41 31 12° 2 53'50 36.47118	0	6423 Oct 13 04:34 6423 Oct 26 03:13	23° £ 28 24 9 00 32 23° £ 52'34
direct	6417 Apr 03 21.16 6417 Jun 21 00:27	12 2 33 30 30.4/11/ 11° 2 45'41	retrograde	6424 Jan 24 15:12	25° £ 32'34 25° £ 33'19
evening set	6417 Sep 18 00:38	13° 2 17'35	opposition	6424 Apr 12 07:50	24° £ 20'04 9°44'42
max. Earth dist.	6417 Sep 29 19:49	13° ⊆ 38'19 38.3292	* *	6424 Apr 14 21:52	24° 2 16'17 34.66933 AU
max. Lartii dist.	0417 бер 25 15.45	15 = 30 17 30.3272.	direct	6424 Jul 01 16:28	23° 2 05'14
conjunction	6417 Oct 02 14:27	13° £ 43'16 6°33'20		6424 Oct 01 14:05	24° ≙ 47'46
minimum elong	6417 Oct 02 14:14	13° £ 43'15 6°33'21	Č	6424 Oct 11 08:32	25° ≙ 06'08 36.51619 AU
morning rise	6417 Oct 17 03:06	14° £ 08'55			
retrograde	6418 Jan 13 19:03	15° - 41'17	conjunction	6424 Oct 14 05:44	25° ≙ 11'35 9°25'10
opposition	6418 Apr 03 04:09	14° 2 30′29 7°07′56		6424 Oct 14 05:26	25° ♀ 11'34 9°25'12
min. Earth dist.	6418 Apr 05 15:43	14° £ 26'59 36.2118	3 AU morning rise	6424 Oct 26 19:51	25° ჲ 35'20
direct	6418 Jun 22 20:23	13° ≏ 18′25	retrograde	6425 Jan 25 15:56	27° ♀ 17'44
evening set	6418 Sep 20 02:52	14° £ 51'37	opposition	6425 Apr 14 06:41	26° ♀ 04'07 10°10'33
max. Earth dist.	6418 Oct 01 14:51	15° £ 12'02 38.0678		6425 Apr 16 20:25	26° ♀ 00'19 34.41823 AU
			direct	6425 Jul 03 15:44	24° - 48′51
conjunction	6418 Oct 04 11:18	15° ≏ 17'09 6°57'57	evening set	6425 Oct 04 00:25	26° £ 33'14
minimum elong	6418 Oct 04 11:05	15° ≏ 17'08 6°57'59	max. Earth dist.	6425 Oct 13 08:41	26° ♀ 50'59 36.26333 AU
morning rise	6418 Oct 18 18:50	15° - 42′38			
retrograde	6419 Jan 15 16:22	17° ≏ 16'15	conjunction	6425 Oct 16 07:17	26° £ 56'37 9°49'19
opposition	6419 Apr 04 23:09	16° ≙ 05'02 7°34'05	minimum elong	6425 Oct 16 06:59	26° £ 56'35 9°49'20
min. Earth dist.	6419 Apr 07 11:45	16° ≙ 01'28 35.9521	3 AU morning rise	6425 Oct 28 12:54	27° ≏ 19'54
direct	6419 Jun 24 12:57	14° £ 52'30	retrograde	6426 Jan 27 19:10	29° ഫ 04'03
evening set	6419 Sep 22 05:56	16° ≏ 27'05	opposition	6426 Apr 16 06:22	27° ≏ 50'03 10°36'14
max. Earth dist.	6419 Oct 03 12:37	16° £ 47'17 37.8061		6426 Apr 18 20:48	27° ≏ 46'11 34.16853 AU
			direct	6426 Jul 05 12:46	26° ≏ 34'21
conjunction	6419 Oct 06 08:54	16° £ 52'26 7°22'36	evening set	6426 Oct 06 11:56	28° ≏ 20'40
minimum elong	6419 Oct 06 08:39	16° £ 52'24 7°22'36	Č	6426 Oct 15 11:18	28° ≏ 37'52 36.01137 AU
morning rise	6419 Oct 20 10:32	17° ≏ 17'43			
retrograde	6420 Jan 17 12:42	18° ≙ 52'37	conjunction	6426 Oct 18 09:44	28° △ 43'32 10°13'16
opposition	6420 Apr 05 18:51	17° £ 41'00 8°00'16	minimum elong	6426 Oct 18 09:24	28° ≙ 43'30 10°13'19

morning rise	6426 Oct 30 05:56	29° Ω 06'19		direct	6433 Jul 18 02:15	9° M 45'36	
morning risc	6426 Nov 29 14:21	0° M		evening set	6433 Oct 23 14:15	11° M 47'49	
retrograde	6427 Jan 29 20:15	0°ML52'17		max. Earth dist.	6433 Oct 29 00:52		34.29212 AU
retrograde	6427 Apr 03 05:57	30°R ≏		max. Earm dist.	0433 OCI 29 00.32	11 1163902	34.29212 AU
opposition	6427 Apr 18 06:56	29° £ 37'53	11°01'43	conjunction	6433 Oct 31 23:31	12°ML05'08	12°51'47
min. Earth dist.	6427 Apr 20 21:56		33.91966 AU	minimum elong	6433 Oct 31 23:10	12°M05'06	12°51'49
direct	6427 Jul 07 11:42	28° ⊆ 21'44	33.71700710	morning rise	6433 Nov 09 07:26	12°M22'20	12 31 47
direct	6427 Oct 03 18:33	0° M		retrograde	6434 Feb 12 15:40	14°ML23'17	
evening set	6427 Oct 09 01:01	0°ML10'03		opposition	6434 May 01 07:51	13°ML05'54	13°50'09
max. Earth dist.	6427 Oct 17 13:45		35.76036 AU	min. Earth dist.	6434 May 03 22:56		32.22972 AU
max. Lartii dist.	0427 000 17 13.43	0 1102034	33.70030710	direct	6434 Jul 20 06:47	11°M46'18	32.22) / 2 / 10
conjunction	6427 Oct 20 12:49	0°MJ32'21	10°37'00	evening set	6434 Oct 26 14:23	13°ML51'14	
minimum elong	6427 Oct 20 12:49	0°M32'20	10°37'01	max. Earth dist.	6434 Oct 31 09:14		34.06043 AU
morning rise	6427 Oct 31 23:15	0°M54'34	10 37 01	max. Earth dist.	0131 000 31 07.11	11 1100112	31.00013710
retrograde	6428 Feb 01 01:15	2°M42'25		conjunction	6434 Nov 03 07:48	14° M 07'21	13°12'24
opposition	6428 Apr 19 08:07	1°M27'38	11°26'57	minimum elong	6434 Nov 03 07:46	14°ML07'19	13°12'27
min. Earth dist.	6428 Apr 21 22:54		33.67183 AU	morning rise	6434 Nov 11 00:05	14°M23'21	13 1227
direct	6428 Jul 08 11:20	0°M11'00	33.07103 AC	morning risc	6434 Nov 29 02:28	15°M	
evening set	6428 Oct 10 15:17	2°ML01'23		retrograde	6435 Feb 15 01:54	16°M26'54	
max. Earth dist.	6428 Oct 18 16:59		35.51018 AU	opposition	6435 May 03 14:35	15°M09'06	14°11'59
max. Earth dist.	0428 Oct 18 10.39	2 1161/11	33.31016 AU		6435 May 06 04:33		32.00380 AU
	(420.0 + 21.16.44	20M 22104	11000127	min. Earth dist.	•		32.00380 AU
conjunction	6428 Oct 21 16:44	2°M23'04	11°00'27	Ľ .	6435 May 09 09:12	15°RM	
minimum elong	6428 Oct 21 16:23	2°M23'03	11°00'30	direct	6435 Jul 22 10:45	13°M49'02	
morning rise	6428 Nov 01 16:41	2°M44'40			6435 Oct 01 02:43	15°M	
retrograde	6429 Feb 02 05:40	4°M34'29	11051154	evening set	6435 Oct 29 16:35	15°M56'50	22 02 42 5 4 4 4
opposition	6429 Apr 21 10:15	3°M19'16	11°51'54	max. Earth dist.	6435 Nov 02 19:33	16°11L05'30	33.83435 AU
min. Earth dist.	6429 Apr 24 02:19		33.42504 AU				
direct	6429 Jul 10 11:24	2°M02'09		conjunction	6435 Nov 05 17:06	16°M11'37	13°32'17
evening set	6429 Oct 13 07:18	3°M⋅54'42		minimum elong	6435 Nov 05 16:45	16°M11'35	13°32'19
max. Earth dist.	6429 Oct 20 22:02	4° ™ 09'46	35.26135 AU	morning rise	6435 Nov 12 16:27	16°M26'19	
				retrograde	6436 Feb 17 10:05	18°M32'35	
conjunction	6429 Oct 23 21:28	4° M 15'41	11°23'36	opposition	6436 May 04 22:16	17°M14'23	14°33'02
minimum elong	6429 Oct 23 21:07	4° M 15′40	11°23'37	min. Earth dist.	6436 May 07 12:14		31.78361 AU
morning rise	6429 Nov 03 10:10	4°M36'35		direct	6436 Jul 23 16:14	15°M53'54	
retrograde	6430 Feb 04 12:06	6°M28′25		evening set	6436 Oct 31 21:19	18° M 04'45	
opposition	6430 Apr 23 12:53	5° M ₊12'47	12°16'31	max. Earth dist.	6436 Nov 04 06:39	18°M11'56	33.61431 AU
min. Earth dist.	6430 Apr 26 04:11	5° ™ 08'45	33.17986 AU				
direct	6430 Jul 12 15:04	3° M 55′10		conjunction	6436 Nov 07 03:07	18°ML18'01	13°51'23
evening set	6430 Oct 16 00:37	5° ™ 49'59		minimum elong	6436 Nov 07 02:45	18° M ₊17'59	13°51'26
max. Earth dist.	6430 Oct 23 02:17	6° M ₊04'07	35.01431 AU	morning rise	6436 Nov 13 07:53	18°M31'13	
				retrograde	6437 Feb 18 21:56	20°M40'23	
conjunction	6430 Oct 26 02:52	6°M₁0′12	11°46'22	opposition	6437 May 07 06:41	19°M21'50	14°53'13
minimum elong	6430 Oct 26 02:31	6° M ₊10'10	11°46'24	min. Earth dist.	6437 May 09 19:08	19° M ₊17'49	31.56923 AU
morning rise	6430 Nov 05 03:46	6° M ₃30'18		direct	6437 Jul 26 00:50	18°M00'55	
retrograde	6431 Feb 06 19:44	8°M24'16		evening set	6437 Nov 04 04:59	20°M15'04	
opposition	6431 Apr 25 16:31	7° M .08'11	12°40'43	max. Earth dist.	6437 Nov 06 17:50	20°M20'30	33.39981 AU
min. Earth dist.	6431 Apr 28 08:48	7° IL 04'04	32.93698 AU				
direct	6431 Jul 14 18:00	5° M 50′04		conjunction	6437 Nov 09 14:05	20°M26'36	14°09'38
evening set	6431 Oct 18 19:25	7° M L47'15		minimum elong	6437 Nov 09 13:44	20°M26'34	14°09'40
max. Earth dist.	6431 Oct 25 09:40	8°M00'34	34.76991 AU	morning rise	6437 Nov 14 22:14	20°M38'05	
				retrograde	6438 Feb 21 09:41	22°M50'23	
conjunction	6431 Oct 28 08:55	8°M06'35	12°08'42	opposition	6438 May 09 16:05	21°M31'28	15°12'28
minimum elong	6431 Oct 28 08:34	8°M06'33	12°08'43	min. Earth dist.	6438 May 12 04:59	21°ML27'24	31.36032 AU
morning rise	6431 Nov 06 20:57	8°M25'49		direct	6438 Jul 28 08:16	20°M10'08	
retrograde	6432 Feb 09 01:57	10°M22'01		evening set	6438 Nov 07 16:55	22°M27'53	
opposition	6432 Apr 26 20:50	9° M 05'29	13°04'26	max. Earth dist.	6438 Nov 09 07:15	22°M31'20	33.19083 AU
min. Earth dist.	6432 Apr 29 12:13	9° M ₊01'24	32.69708 AU				
direct	6432 Jul 15 23:01	7°M46'53		conjunction	6438 Nov 12 01:54	22°M37'22	14°26'58
evening set	6432 Oct 20 15:56	9°M46'31		minimum elong	6438 Nov 12 01:33	22°M37'20	14°27'01
max. Earth dist.	6432 Oct 26 15:43	9°M58'44	34.52892 AU	morning rise	6438 Nov 16 10:01	22°M46'47	
				retrograde	6439 Feb 23 23:09	25°M02'31	
conjunction	6432 Oct 29 15:44	10°ML04'53	12°30'32	opposition	6439 May 12 02:24	23°M43'15	15°30'44
minimum elong	6432 Oct 29 15:22	10°ML04'51	12°30'34	min. Earth dist.	6439 May 14 13:45		31.15663 AU
morning rise	6432 Nov 07 14:20	10°M23'10		direct	6439 Jul 30 18:54	22°M21'32	
retrograde	6433 Feb 10 09:22	12°ML21'41		evening set	6439 Nov 11 11:23	24°M43'25	
opposition	6433 Apr 29 01:49	11°ML04'43	13°27'37	max. Earth dist.	6439 Nov 11 19:26		32.98706 AU
min. Earth dist.	6433 May 01 17:24		32.46113 AU				

conjunction	6439 Nov 14 14:20	24°M50'15	14°43'21	direct	6447 Aug 18 04:23	11° ₰ 00'49	
minimum elong	6439 Nov 14 14:01	24°M50'13	14°43'22	max. Earth dist.	6447 Dec 01 15:00	13° ∡ ³34'36	31.59174 AU
morning rise	6439 Nov 17 16:35	24°M57'02					
retrograde	6440 Feb 26 14:19	27°M16'46		conjunction	6447 Dec 03 21:05	13° ∡ ³39'51	16°10'25
opposition	6440 May 13 13:37	25°M57'08	15°47'57	minimum elong	6447 Dec 03 20:56	13° ∡ ³39'50	16°10'27
min. Earth dist.	6440 May 16 01:03		30.95813 AU	retrograde	6448 Mar 16 21:23	16° ₹ 15'30	10 10 27
direct	6440 Aug 01 05:24	24°M35'00	30.73013 110	opposition	6448 Jun 01 11:37	14° × 13 30	17°17'30
	=		22 700/0 ATT				
max. Earth dist.	6440 Nov 13 10:53		32.78860 AU	min. Earth dist.	6448 Jun 03 11:50		29.60818 AU
evening set	6440 Nov 15 06:49	27°M03'15		direct	6448 Aug 19 22:34	13° ∡ 28'16	
				max. Earth dist.	6448 Dec 03 11:02	16° × ′03′13	31.45703 AU
conjunction	6440 Nov 16 03:53	27°M05'12	14°58'41				
minimum elong	6440 Nov 16 03:34	27°M05'10	14°58'43	conjunction	6448 Dec 05 15:40	16° ₹ 08'22	16°14'36
morning rise	6440 Nov 17 00:19	27°ML07'05		minimum elong	6448 Dec 05 15:34	16° ₰ 08'21	16°14'39
retrograde	6441 Feb 28 03:40	29°M33'00		retrograde	6449 Mar 19 16:37	18° ∡ ¹44'56	
opposition	6441 May 16 01:35	28°M13'01	16°04'01	opposition	6449 Jun 04 05:31	17° ∡ ¹22'32	17°21'21
min. Earth dist.	6441 May 18 11:57	28°M09'03	30.76480 AU	min. Earth dist.	6449 Jun 06 04:36	17° ҳ 19'14	29.47937 AU
direct	6441 Aug 03 18:00	26°M50'28		direct	6449 Aug 22 15:36	15° ∡ 757'19	
max. Earth dist.	6441 Nov 16 00:59		32.59572 AU	max. Earth dist.	6449 Dec 06 09:30		31.33276 AU
max. Earth dist.	04411107 10 00.57	2) 1101003	32.37372710	max. Earth dist.	0447 Dec 00 07.50	10 × 33 32	31.33270710
conjunction	6441 Nov 18 18:06	29°M22'06	15°12'54	conjunction	6449 Dec 08 10:51	18° ∡ ³38'23	16°17'04
·							
minimum elong	6441 Nov 18 17:48	29°M22'04	15°12'56	minimum elong	6449 Dec 08 10:45	18° 🗷 38'23	16°17'06
_	6441 Dec 05 22:13	0° ∡ ¹		retrograde	6450 Mar 22 11:58	21° ∡ 15'48	
retrograde	6442 Mar 02 19:08	1° ≯ 751′10		opposition	6450 Jun 07 00:09	19° ≯ 53'15	17°23'20
opposition	6442 May 18 14:28	0° ₹ 30'49	16°18'53	min. Earth dist.	6450 Jun 08 20:38	19° ₹ ′50'08	29.36044 AU
min. Earth dist.	6442 May 21 00:08	0° ∡ ¹26'53	30.57722 AU	direct	6450 Aug 25 10:56	18° ∡ ¹27'53	
	6442 Jun 06 20:43	30°RML		max. Earth dist.	6450 Dec 09 06:13	21° ₹ 05'06	31.21856 AU
direct	6442 Aug 06 05:38	29°M07'52					
	6442 Oct 03 07:28	0° ∡ ¹		conjunction	6450 Dec 11 06:14	21° ₹ ¹09'50	16°17'47
max. Earth dist.	6442 Nov 18 17:58	1° ∡ ³34'57	32.40886 AU	minimum elong	6450 Dec 11 06:11	21° ₹ 09'50	16°17'51
				retrograde	6451 Mar 25 09:10	23° х 48'02	
conjunction	6442 Nov 21 09:02	1° ∡ 740′52	15°25'56	opposition	6451 Jun 09 19:24	22° × 125'21	17°23'25
minimum elong	6442 Nov 21 08:45	1°×740'50	15°26'00	min. Earth dist.	6451 Jun 11 14:17		29.25128 AU
C		4°×711'08	13 20 00	direct		20° x 22 20	29.23126 AU
retrograde	6443 Mar 05 09:22		1.6020107		6451 Aug 28 05:01		21 11 421 477
opposition	6443 May 21 04:14	2° ∡ 50′27	16°32'27	max. Earth dist.	6451 Dec 12 05:45	23° × '38'10	31.11421 AU
min. Earth dist.	6443 May 23 13:10		30.39573 AU			_	
direct	6443 Aug 08 18:40	1° ∡ 127′05		conjunction	6451 Dec 14 02:20	23° ҂ ¹42'35	16°16'44
max. Earth dist.	6443 Nov 21 10:09	3° ₹ 755'30	32.22881 AU	minimum elong	6451 Dec 14 02:19	23° ҂ ⁴42'35	16°16'47
				retrograde	6452 Mar 27 05:32	26° ∡ ¹21'27	
conjunction	6443 Nov 24 00:35	4°2′10 ′٪ °4	15°37'43	opposition	6452 Jun 11 15:05	24° ₹ ¹58'40	17°21'36
minimum elong	6443 Nov 24 00:19	4° ∡ 01'22	15°37'45	min. Earth dist.	6452 Jun 13 08:03	24° ₹ 55'46	29.15142 AU
retrograde	6444 Mar 07 02:16	6° ∡ ³32'51		direct	6452 Aug 30 01:49	23° ҂ ³33′02	
opposition	6444 May 22 18:30	5° ∡ 11'48	16°44'38	max. Earth dist.	6452 Dec 14 03:14	26° ҂ 12'08	31.01950 AU
min. Earth dist.	6444 May 25 01:41	5° ∡ 108'00	30.22127 AU				
direct	6444 Aug 10 07:49	3° ∡ ¹48'03		conjunction	6452 Dec 15 22:40	26° ∡ 16′27	16°13'53
max. Earth dist.	6444 Nov 23 04:22		32.05616 AU	minimum elong	6452 Dec 15 22:42	26° ⊀ 16'28	16°13'57
max. Earth dist.	0444 110V 25 04.22	0 × 17 32	32.03010710	retrograde	6453 Mar 30 02:36	28° × 10 20	10 1557
:	(444 N 25 16-55	(0.702)20	15°48'08	opposition	6453 Jun 14 11:17	28 × 33 34 27° × 33'01	17°17'49
conjunction	6444 Nov 25 16:55	6° × ⁷ 23'38		**			
minimum elong	6444 Nov 25 16:41	6° × 23'36	15°48'11	min. Earth dist.	6453 Jun 16 01:59		29.06091 AU
retrograde	6445 Mar 09 16:33	8° ∡ 56′12		direct	6453 Sep 01 21:52	26° ₹ 07'16	
opposition	6445 May 25 09:47	7° × 734'49	16°55'19	max. Earth dist.	6453 Dec 17 03:15	28° ×' 47'14	30.93432 AU
min. Earth dist.	6445 May 27 16:25		30.05439 AU				
direct	6445 Aug 12 21:49	6° ∡ 10'41		conjunction	6453 Dec 18 19:25	28° ₹ 51'15	16°09'14
max. Earth dist.	6445 Nov 25 23:00	8° ∡ ¹41'50	31.89189 AU	minimum elong	6453 Dec 18 19:28	28° ₹ '51'15	16°09'16
					6454 Jan 17 09:17	0°ರ	
conjunction	6445 Nov 28 09:44	8° ∡ ¹47'28	15°57'06	retrograde	6454 Apr 01 22:33	1° る 31'09	
minimum elong	6445 Nov 28 09:31		15°57'08	opposition	6454 Jun 17 08:02	0° ರ 08'11	17°12'05
retrograde	6446 Mar 12 10:01	11° ∡ ¹21'07		min. Earth dist.	6454 Jun 18 21:09		28.97960 AU
opposition	6446 May 28 01:36	9° × 759'25	17°04'25		6454 Jun 22 03:44	30°R ✓	
min. Earth dist.	6446 May 30 05:39		29.89607 AU	direct	6454 Sep 04 18:41	28° ₹ 42'21	
direct	•	8° ∡ °3348	27.0700/ AU	ancet	6454 Nov 13 14:58	28 メ ・42 21	
	6446 Aug 15 13:56		21 72/75 411	may E-st. U.			20 05005 411
max. Earth dist.	6446 Nov 28 18:18	11" × "0"/"24	31.73675 AU	max. Earth dist.	6454 Dec 20 01:36	1~622'53	30.85895 AU
	(11(P 01 02 12	110 77	1.000.42.4		(151 B 21 111	10-72	1.0000115
conjunction	6446 Dec 01 03:12	11° x 12'54		conjunction	6454 Dec 21 16:12	1°る26'45	16°02'45
minimum elong	6446 Dec 01 03:02	11° ∡ 12'52	16°04'37	minimum elong	6454 Dec 21 16:19	1° る 26'45	16°02'48
retrograde	6447 Mar 15 02:48	13° ∡ ¹47'34		retrograde	6455 Apr 04 20:52	4° ට 07'00	
opposition	6447 May 30 18:21	12° ∡ ¹25'35	17°11'50	opposition	6455 Jun 20 04:54	2° る 43'56	17°04'22
min. Earth dist.	6447 Jun 01 21:34	12° ∡ ¹22'01	29.74717 AU	min. Earth dist.	6455 Jun 21 15:03	2° ⋜ 41'31	28.90794 AU

Transcary Trient	01110110 0111010 1101	n oroo unougn	(01)	, ristrodionstrio	10 1 00 2023 11.25	, page	_,
direct	6455 Sep 07 15:49	1°る18'02		retrograde	6463 Apr 25 08:36	24° る 52'04	
max. Earth dist.	6455 Dec 23 01:44	3°る59'10 30.7	79351 AU	opposition	6463 Jul 11 07:47	23° る 29'08	14°52'02
				min. Earth dist.	6463 Jul 11 20:21	23° る 28'15	28.73119 AU
conjunction	6455 Dec 24 13:10	4°る02'43 15°	54'26	direct	6463 Sep 28 23:01	22° る 03'38	
minimum elong	6455 Dec 24 13:17	4°る02'44 15°	54'29	evening set	6464 Jan 07 23:17	24° る 31'22	
retrograde	6456 Apr 06 15:31	6° る 43'13					
opposition	6456 Jun 22 02:12	5° ට 20'05 16°	54'41	conjunction	6464 Jan 14 08:38	24° る 46'40	13°42'55
min. Earth dist.	6456 Jun 23 11:01	5° る 17'45 28.8	84604 AU	minimum elong	6464 Jan 14 08:58	24° る 46'42	13°42'58
direct	6456 Sep 09 12:26	3° ⋜ 54'06		max. Earth dist.	6464 Jan 13 21:03	24° る 45'31	30.68421 AU
max. Earth dist.	6456 Dec 25 01:02	6° ට 35'38 30.7	73851 AU	morning rise	6464 Jan 20 18:17	25° පි 02'01	
				retrograde	6464 Apr 27 04:36	27° る 25'36	
conjunction	6456 Dec 26 10:09	6° る 38'58 15°6	44'17	opposition	6464 Jul 13 04:39	26° る 02'49	14°27'14
minimum elong	6456 Dec 26 10:20	6° る 38'59 15°6	44'19	min. Earth dist.	6464 Jul 13 14:03	26° පි 02'10	28.76188 AU
retrograde	6457 Apr 09 12:05	9° る 19'34		direct	6464 Sep 30 20:29	24° る 37'33	
opposition	6457 Jun 24 23:23	7° る 56'22 16°6	43'00	evening set	6465 Jan 08 21:53	27° る 02'38	
min. Earth dist.	6457 Jun 26 04:49	7° る 54'17 28.7	79447 AU				
direct	6457 Sep 12 11:22	6° る 30'21		conjunction	6465 Jan 16 03:59	27° る 19'57	13°19'01
max. Earth dist.	6457 Dec 28 01:03	9° ප 12'14 30.6	69431 AU	minimum elong	6465 Jan 16 04:22	27° る 19'59	13°19'02
				max. Earth dist.	6465 Jan 15 20:22	27° る 19'11	30.72372 AU
conjunction	6457 Dec 29 07:09	9° ප 15'16 15°?	32'17	morning rise	6465 Jan 23 10:11	27° る 37'18	
minimum elong	6457 Dec 29 07:21	9° ප 15'17 15°?	32'19	retrograde	6465 Apr 29 22:33	29° る 58'18	
retrograde	6458 Apr 12 07:50	11° る 55'53		opposition	6465 Jul 16 01:20	28° る 35'42	14°00'53
opposition	6458 Jun 27 20:59	10° පි 32'38 16°	29'19	min. Earth dist.	6465 Jul 16 08:42	28° る 35'12	28.80304 AU
min. Earth dist.	6458 Jun 29 00:43	10°る30'40 28.7	75390 AU	direct	6465 Oct 03 18:33	27° る 10'41	
direct	6458 Sep 15 07:28	9° る 06'35		evening set	6466 Jan 10 21:55	29° る 33'12	
max. Earth dist.	6458 Dec 31 01:00	11°る48'43 30.6	66183 AU				
				conjunction	6466 Jan 18 22:46	29° る 52'20	12°53'42
conjunction	6459 Jan 01 03:49	11° る 51'25 15°	18'27	minimum elong	6466 Jan 18 23:08	29° る 52'22	12°53'44
minimum elong	6459 Jan 01 04:04	11° る 51'26 15°	18'30	max. Earth dist.	6466 Jan 18 16:53	29° る 51'45	30.77374 AU
retrograde	6459 Apr 15 03:13	14° る 31'58			6466 Jan 22 03:55	0°≈	
opposition	6459 Jun 30 18:29	13° පි 08'42 16°	13'40	morning rise	6466 Jan 26 23:46	0° ≈ 11′29	
min. Earth dist.	6459 Jul 01 18:22	13° る 07'00 28.7	72495 AU	retrograde	6466 May 02 18:35	2° ≈ 30′02	
direct	6459 Sep 18 06:45	11° る 42'40		opposition	6466 Jul 18 21:40	1° ≈ 07'38	13°33'03
max. Earth dist.	6460 Jan 03 00:25	14° る 24'54 30.6	64147 AU	min. Earth dist.	6466 Jul 19 01:30	1° ≈ 07'22	28.85451 AU
					6466 Sep 03 21:15	30°Ŗる	
conjunction	6460 Jan 04 00:28	14° පි 27'19 15°	02'48	direct	6466 Oct 06 16:42	29° る 42'51	
minimum elong	6460 Jan 04 00:43	14° පි 27'21 15°	02'51		6466 Nov 07 16:20	0° ≈	
retrograde	6460 Apr 16 22:13	17° る 07'43		evening set	6467 Jan 12 22:47	2° ≈ 02'55	
opposition	6460 Jul 02 15:54	15° る 44'27 15°	56'03				
min. Earth dist.	6460 Jul 03 13:33	15° る 42'55 28.7	70827 AU	conjunction	6467 Jan 21 17:07	2° ≈ 23'41	12°27'04
direct	6460 Sep 20 03:55	14° る 18'29		minimum elong	6467 Jan 21 17:30	2° ≈ 23'43	12°27'06
evening set	6461 Jan 03 00:55	16° る 56'02		max. Earth dist.	6467 Jan 21 15:00	2° ≈ 23'28	30.83382 AU
				morning rise	6467 Jan 30 11:19	2° ≈ 44'26	
conjunction	6461 Jan 05 21:01	17° る 02'53 14°	45'21	retrograde	6467 May 05 11:01	5° ≈ 00'39	
minimum elong	6461 Jan 05 21:19	17° පි 02'55 14°	45'24	opposition	6467 Jul 21 17:43	3° ≈ 38′26	13°03'51
max. Earth dist.	6461 Jan 05 00:50	17° る 00'51 30.6	63383 AU	min. Earth dist.	6467 Jul 21 19:55	3° ≈ 38'17	28.91580 AU
morning rise	6461 Jan 08 17:39	17° る 09'47		direct	6467 Oct 09 13:52	2° ≈ 13'55	
retrograde	6461 Apr 19 17:44	19° る 43'01		evening set	6468 Jan 15 00:39	4° ≈ 31'36	
opposition	6461 Jul 05 13:19	18° ප 19'50 15°:	36'32				
min. Earth dist.	6461 Jul 06 07:27	18° ප 18'33 28.7	70385 AU	conjunction	6468 Jan 24 10:54	4° ≈ 53'50	11°59'13
direct	6461 Sep 23 02:47	16° る 53'59		minimum elong	6468 Jan 24 11:17	4° ≈ 53'52	11°59'15
evening set	6462 Jan 04 10:04	19° る 27'40		max. Earth dist.	6468 Jan 24 10:42		30.90377 AU
				morning rise	6468 Feb 02 21:05	5° ≈ 16′04	
conjunction	6462 Jan 08 17:07		26'11	retrograde	6468 May 07 04:24	7° ≈ 29'59	
minimum elong	6462 Jan 08 17:26	19° පි 38'02 14°	26'14	opposition	6468 Jul 23 12:57	6° ≈ 07'58	12°33'23
max. Earth dist.	6462 Jan 07 23:24	19° る 36'14 30.6	53862 AU	min. Earth dist.	6468 Jul 23 11:32	6° ≈ 08'04	28.98678 AU
morning rise	6462 Jan 13 00:37	19° る 48'24		direct	6468 Oct 11 11:16	4° ≈ 43'42	
retrograde	6462 Apr 22 13:38	22° る 17'50		evening set	6469 Jan 16 02:58	6° ≈ 59'04	
opposition	6462 Jul 08 10:40	20° ප් 54'45 15°	15'10				
min. Earth dist.	6462 Jul 09 02:02	20° ප් 53'41 28.7	71171 AU	conjunction	6469 Jan 26 04:14	7° ≈ 22'39	11°30'14
direct	6462 Sep 25 23:34	19° る 29'04		minimum elong	6469 Jan 26 04:38	7° ≈ 22'41	11°30'16
evening set	6463 Jan 06 03:01	21° る 59'37		max. Earth dist.	6469 Jan 26 07:16	7° ≈ 22'57	30.98328 AU
				morning rise	6469 Feb 05 05:13	7° ≈ 46'12	
conjunction	6463 Jan 11 13:08	22° ප 12'39 14°	05'21	retrograde	6469 May 09 20:03	9° ≈ 57'55	
minimum elong	6463 Jan 11 13:29	22° ප 12'41 14°	05'23	opposition	6469 Jul 26 08:00	8° ≈ 36′06	12°01'45
max. Earth dist.	6463 Jan 10 23:37	22° ට 11'18 30.6	55565 AU	min. Earth dist.	6469 Jul 26 04:53	8° ≈ 36'19	29.06745 AU
morning rise	6463 Jan 16 23:33	22° る 25'43		direct	6469 Oct 14 06:42	7° ≈ 12'06	

evening set	6470 Jan 18 05:38	9° ≈ 25'11		max. Earth dist.	6476 Feb 13 08:10	24°001'35	31.82565 AU
evening set	04/0 Jan 18 03.38	<i>y</i> ≈2311		morning rise	6476 Feb 25 14:53	24°≈29'06	31.82303 AU
conjunction	6470 Jan 28 20:39	9° ≈ 49'58 11°	°00'12	retrograde	6476 May 25 14:52	26°≈27'25	
minimum elong	6470 Jan 28 21:02		°00'15	min. Earth dist.	6476 Aug 11 04:15		29.92124 AU
max. Earth dist.	6470 Jan 29 02:13	9°≈50'31 31.0		opposition	6476 Aug 12 03:07	25°≈07'26	7°55'48
morning rise	6470 Feb 08 11:20	10°≈14'43	07203710	direct	6476 Oct 31 08:34	23°≈45'50	7 33 40
retrograde	6470 May 12 11:16	12°≈24'18		evening set	6477 Jan 31 05:40	25°≈44'53	
opposition	6470 Jul 29 02:19		°29'02	evening sec	0177 0011 31 00.10	20	
min. Earth dist.	6470 Jul 28 19:34	11°≈03'09 29.1		conjunction	6477 Feb 13 20:17	26° ≈ 15'11	7°08'28
direct	6470 Oct 17 03:04	9° ≈ 38'57		minimum elong	6477 Feb 13 20:34	26°≈15'12	7°08'29
evening set	6471 Jan 20 08:31	11° ≈ 49'49		max. Earth dist.	6477 Feb 14 21:11		31.98507 AU
				morning rise	6477 Feb 27 10:17	26° ≈ 45'24	
conjunction	6471 Jan 31 12:26	12°≈15'41 10°	°29'14	retrograde	6477 May 28 03:39	28° ≈ 42'05	
minimum elong	6471 Jan 31 12:49		°29'16	opposition	6477 Aug 14 16:58	27° ≈ 22'26	7°18'26
max. Earth dist.	6471 Jan 31 20:52	12°≈16'31 31.1		min. Earth dist.	6477 Aug 13 14:38	27° ≈ 24'10	
morning rise	6471 Feb 11 15:59	12° ≈ 41'32		direct	6477 Nov 03 00:50	26° ≈ 01'15	
retrograde	6471 May 15 00:23	14° ≈ 49′03		evening set	6478 Feb 02 09:25	27° ≈ 58'35	
opposition	6471 Jul 31 20:03	13° ≈ 27'38 10°	°55'21	Ü			
min. Earth dist.	6471 Jul 31 11:05	13°≈28'14 29.2		conjunction	6478 Feb 16 07:09	28° ≈ 29'18	6°33'27
direct	6471 Oct 19 21:07	12° ≈ 04'11		minimum elong	6478 Feb 16 07:25	28° ≈ 29'19	6°33'29
evening set	6472 Jan 22 11:39	14°≈12'53		max. Earth dist.	6478 Feb 17 11:17		32.15224 AU
Ü				morning rise	6478 Mar 02 04:01	28° ≈ 59'56	
conjunction	6472 Feb 03 03:31	14° ≈ 39'45 9°5	57'23	5 5	6478 Apr 01 06:34	0°) €	
minimum elong	6472 Feb 03 03:53		57'25	retrograde	6478 May 30 14:05	0° ¥ 55'04	
max. Earth dist.	6472 Feb 03 15:18	14°≈40'53 31.2			6478 Aug 01 13:51	30°R ≈	
	6472 Feb 11 21:59	15° ≈		min. Earth dist.	6478 Aug 16 02:42	29° ≈ 37'33	30.25021 AU
morning rise	6472 Feb 14 18:49	15° ≈ 06'34		opposition	6478 Aug 17 06:20	29° ≈ 35'44	6°40'51
retrograde	6472 May 16 13:08	17°≈12'04		direct	6478 Nov 05 15:54	28° ≈ 14'58	
opposition	6472 Aug 02 13:08		°20'47		6479 Jan 30 14:07	0° ∀	
min. Earth dist.	6472 Aug 02 00:54	15°≈51'44 29.3		evening set	6479 Feb 04 13:27	0° ¥ 10′38	
	6472 Sep 05 05:30	15°R ≈				. , (
direct	6472 Oct 21 15:42	14° ≈ 27'46		conjunction	6479 Feb 18 17:22	0°) 41'41	5°58'14
	6472 Dec 05 09:21	15° ≈		minimum elong	6479 Feb 18 17:36	0°) 41'42	
evening set	6473 Jan 23 15:00	16° ≈ 34'23		max. Earth dist.	6479 Feb 19 23:00		32.32659 AU
<i>3</i>				morning rise	6479 Mar 04 20:32	1°) 12'40	
conjunction	6473 Feb 04 17:48	17° ≈ 02'07 9°2	24'46	retrograde	6479 Jun 01 23:26	3° ¥ 06'18	
minimum elong	6473 Feb 04 18:10	17° ≈ 02'10 9°2	24'47	opposition	6479 Aug 19 18:40	1° ¥ 47'18	6°03'06
max. Earth dist.	6473 Feb 05 07:58	17°≈03'29 31.4	40226 AU	min. Earth dist.	6479 Aug 18 12:03	1° ¥ 49'18	30.42546 AU
morning rise	6473 Feb 16 20:11	17° ≈ 29'49		direct	6479 Nov 08 06:41	0°) €26'54	
retrograde	6473 May 19 02:53	19° ≈ 33'25		evening set	6480 Feb 06 17:25	2°) €20'59	
opposition	6473 Aug 05 05:38		45'26	3			
min. Earth dist.	6473 Aug 04 14:17	18°≈13'32 29.4		conjunction	6480 Feb 21 02:55	2° ¥ 52'18	5°22'55
direct	6473 Oct 24 07:25	16° ≈ 49'42		minimum elong	6480 Feb 21 03:08	2° ¥ 52′20	
evening set	6474 Jan 25 18:28	18° ≈ 54'20		max. Earth dist.	6480 Feb 22 10:42	2° ¥ 55'13	32.50726 AU
Ü				morning rise	6480 Mar 06 11:39	3° ¥ 23'33	
conjunction	6474 Feb 07 07:34	19° ≈ 22'51 8°5	51'28	retrograde	6480 Jun 03 06:59	5°) 15'45	
minimum elong	6474 Feb 07 07:55		51'30	min. Earth dist.	6480 Aug 19 22:35	3°) 59′08	30.60712 AU
max. Earth dist.	6474 Feb 08 01:33	19° ≈ 24'34 31.5		opposition	6480 Aug 21 06:34	3° ¥ 57'04	
morning rise	6474 Feb 19 19:54	19° ≈ 51'19		direct	6480 Nov 09 19:13	2°) 37′04	
retrograde	6474 May 21 14:41	21°≈53'04		evening set	6481 Feb 07 21:19	4° ¥ 29'36	
opposition	6474 Aug 07 21:31	20° ≈ 32'27 9°0	09'24	-			
min. Earth dist.	6474 Aug 07 03:37	20° ≈ 33'39 29.6	62597 AU	conjunction	6481 Feb 22 11:43	5° ₩ 01'06	4°47'33
direct	6474 Oct 27 01:38	19° ≈ 10′02		minimum elong	6481 Feb 22 11:55	5°) €01'08	4°47'33
evening set	6475 Jan 27 22:02	21° ≈ 12'43		max. Earth dist.	6481 Feb 23 21:30	5°) 04'10	32.69394 AU
				morning rise	6481 Mar 09 01:14	5°) 32'33	
conjunction	6475 Feb 09 20:21	21° ≈ 41'56 8°1	17'35	retrograde	6481 Jun 05 13:30	7°) €23'22	
minimum elong	6475 Feb 09 20:40	21° ≈ 41'58 8°1	17'36	min. Earth dist.	6481 Aug 22 07:25	6°) €07'11	30.79464 AU
max. Earth dist.	6475 Feb 10 16:08	21° ≈ 43'48 31.6	67485 AU	opposition	6481 Aug 23 17:39	6°) 04'59	4°47'32
morning rise	6475 Feb 22 18:10	22°≈11'04		direct	6481 Nov 12 08:39	4°) 45′22	
retrograde	6475 May 24 04:28	24°≈11'04		evening set	6482 Feb 10 01:14	6°) 36′24	
opposition	6475 Aug 10 12:40	22° ≈ 50'45 8°3	32'50	-			
min. Earth dist.	6475 Aug 09 15:19	22°≈52'11 29.7	76904 AU	conjunction	6482 Feb 24 19:43	7° ∺ 08'03	4°12'13
direct	6475 Oct 29 17:17	21° ≈ 28'45		minimum elong	6482 Feb 24 19:54	7°) €08'04	4°12'15
evening set	6476 Jan 30 01:42	23° ≈ 29'35		max. Earth dist.	6482 Feb 26 06:58	7°) 11′13	32.88622 AU
=				morning rise	6482 Mar 11 13:36	7°) 39'37	
conjunction	6476 Feb 12 08:44	23°≈59'23 7°4	43'13	retrograde	6482 Jun 07 20:42	9° ¥ 29'07	
minimum elong	6476 Feb 12 09:02	23° ≈ 59′24 7°4	43'15	min. Earth dist.	6482 Aug 24 15:40	8° ¥ 13′21	30.98824 AU

opposition	6482 Aug 26 04:02	8°) 11'02	∕ 1°00'51	behind sun end	6489 Mar 10 12:20	21° ₩ 07'07	
direct	6482 Nov 14 18:48	6° ¥ 51'46	4 09 31	max. Earth dist.	6489 Mar 12 08:16		34.40086 AU
evening set	6483 Feb 12 04:44	8°) (41'23		morning rise	6489 Mar 25 14:23	21° H 37'42	34.40000 AC
evening set	0403100 12 04.44	6 /(41 23		retrograde	6489 Jun 21 03:27	23°) 19'55	
conjunction	6483 Feb 27 02:59	9° ₩ 13'05	3°36'50	desc. node	6489 Jul 06 01:26	23° X 16'38	
minimum elong	6483 Feb 27 03:08	9° ¥ 13'06	3°36'59	min. Earth dist.	6489 Sep 07 06:26		32.51745 AU
max. Earth dist.	6483 Feb 28 17:02	, , , , , , , , , , , , , , , , , , , ,	33.08438 AU	opposition	6489 Sep 09 08:24	22° \ 04'10	
morning rise	6483 Mar 14 00:20	9°) (44'43	33.00430710	direct	6489 Nov 29 06:51	20°) 47'49	0 00 15
retrograde	6483 Jun 10 01:24	11°) 32'58		evening set	6490 Feb 25 02:45	22° H 29'30	
min. Earth dist.	6483 Aug 26 23:43		31.18785 AU	evening sec	0190100 25 02.15	22 /(2) 30	
opposition	6483 Aug 28 13:38	10° X 17'33		conjunction	6490 Mar 12 10:00	23° ¥ 00'16	-0°22'27
direct	6483 Nov 17 06:24	8° \ 56'17	3 32 17	minimum elong	6490 Mar 12 09:59	23° \ 00'16	
evening set	6484 Feb 14 08:23	10°) (3017		max. Earth dist.	6490 Mar 14 12:48		34.63803 AU
evening set	0404160 14 00.23	10 /(4433		morning rise	6490 Mar 27 16:39	23° X 31'01	54.05005710
conjunction	6484 Feb 29 09:24	11°) 16′15	3°01'54	retrograde	6490 Jun 23 03:41	25° X 12'25	
minimum elong	6484 Feb 29 09:32	11° X 16'16	3°01'55	min. Earth dist.	6490 Sep 09 10:09		32.75630 AU
max. Earth dist.	6484 Mar 02 00:26		33.28848 AU	opposition	6490 Sep 11 13:16	23°) 57'03	
morning rise	6484 Mar 15 09:53	11°) (1743	33.20040 AC	direct	6490 Dec 01 13:05	22°) (37'03	-0 41 07
retrograde	6484 Jun 11 08:24	13°) (34'57		evening set	6491 Feb 27 05:30	24°)(21'55	
min. Earth dist.			31.39399 AU	evening set	0491 160 27 03.30	24 /(2133	
	6484 Aug 28 05:31	12 X 20 02 12° X 17'27		aaniumatian	6491 Mar 14 11:52	24°) 52'24	0055102
opposition	6484 Aug 29 22:20 6484 Nov 18 14:47		2 33 01	conjunction		24 X 32 24 24° X 52'24	
direct		10° ¥ 58'57		minimum elong	6491 Mar 14 11:50		
evening set	6485 Feb 15 11:44	12°) 45′56		max. Earth dist.	6491 Mar 16 15:09		34.87818 AU
	(405)4 02 15 15	1201/17/26	2027102	morning rise	6491 Mar 29 18:02	25°) €22'51	
conjunction	6485 Mar 02 15:15	13° ¥ 17'36	2°27'02	retrograde	6491 Jun 25 06:22	27°) (03'31	22 00000 111
minimum elong	6485 Mar 02 15:21		2°27'02	min. Earth dist.	6491 Sep 11 12:31		32.99808 AU
max. Earth dist.	6485 Mar 04 09:25		33.49900 AU	opposition	6491 Sep 13 17:33	25°) (48′30	-1°15′26
morning rise	6485 Mar 17 17:57	13°) 49′12		direct	6491 Dec 03 16:19	24° ∺ 33'00	
retrograde	6485 Jun 13 12:40	15°) 35′10		evening set	6492 Feb 29 08:03	26° ∺ 12'56	
min. Earth dist.	6485 Aug 30 12:37		31.60678 AU				
opposition	6485 Sep 01 06:37	14° ∺ 17'59	2°18'00	conjunction	6492 Mar 15 13:23	26°) 43′05	
direct	6485 Nov 20 23:37	12° 米 59′53		minimum elong	6492 Mar 15 13:20	26°) 43′05	
evening set	6486 Feb 17 14:58	14°) (45′40		max. Earth dist.	6492 Mar 17 18:42		35.12062 AU
				morning rise	6492 Mar 30 18:15	27° ∺ 13'13	
conjunction	6486 Mar 04 20:10	15° ∺ 17'13	1°52'26	retrograde	6492 Jun 26 06:45	28° ¥ 53'11	
minimum elong	6486 Mar 04 20:15	15° ₩ 17'14		min. Earth dist.	6492 Sep 12 16:03		33.24188 AU
max. Earth dist.	6486 Mar 06 15:27	15°) €21'00	33.71601 AU	opposition	6492 Sep 14 21:12	27° ∺ 38'30	-1°49'10
morning rise	6486 Mar 20 00:50	15°) (48′44		direct	6492 Dec 04 20:54	26°) €23'24	
retrograde	6486 Jun 15 18:37	17°) €33'39		evening set	6493 Mar 02 10:38	28° ∺ 02'31	
min. Earth dist.	6486 Sep 01 16:51	16° ∺ 19'39	31.82614 AU				
opposition	6486 Sep 03 14:02	16° ∺ 16'49	1°41'18	conjunction	6493 Mar 17 14:14	28°) 32′19	-1°58'43
direct	6486 Nov 23 08:59	14° ¥ 59'08		minimum elong	6493 Mar 17 14:10	28° ℋ 32'18	1°58'44
evening set	6487 Feb 19 18:05	16°) 43′49		max. Earth dist.	6493 Mar 19 19:24	28°) ₹36′43	35.36475 AU
				morning rise	6493 Apr 01 17:41	29°) 02′05	
conjunction	6487 Mar 07 00:36	17° ₩ 15'14	1°18'08		6493 May 05 04:55	$0^{\circ}\mathbf{\Upsilon}$	
minimum elong	6487 Mar 07 00:39	17° ₩ 15'15	1°18'08	retrograde	6493 Jun 28 09:32	0° Y 41′23	
max. Earth dist.	6487 Mar 08 22:35	17° ₩ 19'13	33.93907 AU		6493 Aug 24 06:52	30° ₹ ₩	
morning rise	6487 Mar 22 06:30	17°) √ 46'37		min. Earth dist.	6493 Sep 14 17:05	29° ∺ 30'19	33.48738 AU
retrograde	6487 Jun 17 23:07	19°) 30′34		opposition	6493 Sep 17 00:17	29° ∺ 27'01	-2°22'19
min. Earth dist.	6487 Sep 03 22:30	18°) (16′58	32.05157 AU	direct	6493 Dec 06 23:26	28°) 12′16	
opposition	6487 Sep 05 20:44	18° ¥ 14'05	1°05'00	evening set	6494 Mar 04 12:47	29° ¥ 50'38	
direct	6487 Nov 25 16:59	16°) (56′51			6494 Mar 09 09:13	$0^{\circ}\mathbf{Y}$	
evening set	6488 Feb 21 21:05	18°) (40′28					
				conjunction	6494 Mar 19 14:28	0° Y 20′02	-2°29'45
conjunction	6488 Mar 08 04:22	19°) 11'43	0°44'12	minimum elong	6494 Mar 19 14:23	0° Y 20′02	2°29'45
minimum elong	6488 Mar 08 04:23	19°) 11'43	0°44'13	max. Earth dist.	6494 Mar 21 21:27	0° Y 24'33	35.61017 AU
max. Earth dist.	6488 Mar 10 03:41	19°) 15′46	34.16770 AU	morning rise	6494 Apr 03 15:55	0° Ƴ 49'26	
morning rise	6488 Mar 23 11:02	19°) 42′55		retrograde	6494 Jun 30 09:39	2° Y 28'05	
retrograde	6488 Jun 19 01:45	21°) €25'58		min. Earth dist.	6494 Sep 16 19:40		33.73431 AU
min. Earth dist.	6488 Sep 05 02:11		32.28222 AU	opposition	6494 Sep 19 02:51	1° Υ 14'00	
opposition	6488 Sep 07 02:47	20° H 09'51		11	6494 Dec 03 22:24	30° ₽	
direct	6488 Nov 27 01:11	18°) 53'04		direct	6494 Dec 09 01:52	29°) 59'37	
evening set	6489 Feb 22 24:00	20°) 35'41			6494 Dec 14 08:23	0° Υ	
	2	. , , , , , , , , , , , , , , , , , , ,		evening set	6495 Mar 06 14:49	1° Υ 37'14	
conjunction	6489 Mar 10 07:23	21°) €06'43	0°10'42		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- 13/17	
minimum elong	6489 Mar 10 07:23	21° X 06'43	0°10'42	conjunction	6495 Mar 21 14:10	2° Υ 06'13	-3°00'13
behind sun begin	6489 Mar 10 07:25	21° X 06'19	J 1072	minimum elong	6495 Mar 21 14:04	2°Υ06'13	
Julia Sun Gegin	5.05 Hui 10 02.23			Ciong	5.55 Mai 21 17.07	- 1 00 13	5 00 15

direct	6500 Ion 02 11:20	22° Ƴ 43'12	agnismation	6515 Apr. 22 02:02	20 10:20 10050:10
direct	6509 Jan 02 11:38 6509 Mar 31 22:34	24° Y 14'43	conjunction	6515 Apr 22 02:03	3°810'30 -10°58'10 3°810'30 10°58'12
evening set	0309 Mai 31 22.34	24 1443	minimum elong max. Earth dist.	6515 Apr 22 01:51	3°815'17 40.94074 AU
agniumation	6509 Apr 13 04:12	24° Ƴ 36'17 -9°01'14	morning rise	6515 Apr 24 21:11 6515 May 02 13:46	3° 6 28'22
conjunction	6509 Apr 13 03:59	24° Υ 36'16 9°01'15	-	6515 Aug 02 15:00	5° 8 01'23
minimum elong max. Earth dist.	6509 Apr 15 21:17	24° Y 41'05 39.43107	retrograde 7 AU min. Earth dist.	6515 Oct 21 09:36	3° 8 56'45 39.10332 AU
	*	24° Y 41'03 39.4310,			
morning rise	6509 Apr 25 10:02 6509 Jul 24 16:11	24° Y 37′33 26° Y 31′16	opposition direct	6515 Oct 24 05:29	3° 8 53'05 -11°40'55 2° 8 45'28
retrograde min. Earth dist.		25° Y 25'05 37.58315		6516 Jan 13 15:44	4° 8 16'06
	6509 Oct 12 03:42	25 Υ 23 03 37.38313 25° Υ 21'25 -9°41'10	AU evening set	6516 Apr 12 13:04	4 01000
opposition	6509 Oct 14 21:53	24° Y 12'01		(51(A 22 1(.41	4° ႘ 33'18 -11°15'33
direct	6510 Jan 04 08:17	25° Y 43'20	conjunction minimum elong	6516 Apr 22 16:41	4°833'17 11°15'36
evening set	6510 Apr 02 21:39	25 1 43 20	C	6516 Apr 22 16:28	
	6510 4 14 20 25	2 < 200 0 44 0 0 0 2 2 4 7	max. Earth dist.	6516 Apr 25 12:10	4° 8 38'04 41.18816 AU
conjunction	6510 Apr 14 20:37	26° Υ 04'18 -9°22'17	morning rise	6516 May 02 20:28	4° 8 50'30
minimum elong	6510 Apr 14 20:24	26° Υ 04'17 9°22'19	retrograde	6516 Aug 03 03:23	6° 8 23'32
max. Earth dist.	6510 Apr 17 13:52	26° Υ 09'05 39.68338		6516 Oct 22 01:57	5°819'07 39.35143 AU
morning rise	6510 Apr 26 20:04	26° Y 25'17	opposition	6516 Oct 24 21:28	5° 8 15'29 -11°58'40
retrograde	6510 Jul 26 08:35	27° Y ′58′32	direct	6517 Jan 14 09:59	4° 8 08'09
min. Earth dist.	6510 Oct 13 21:16	26° Y 52'37 37.83769	0	6517 Apr 14 11:25	5° 8 38'45
opposition	6510 Oct 16 16:12	26° Y 48'56 -10°02'4′			
direct	6511 Jan 06 02:54	25° Ƴ 39'50	conjunction	6517 Apr 24 06:57	5° 8 55'17 -11°32'23
evening set	6511 Apr 04 20:34	27° Ƴ 10′58	minimum elong	6517 Apr 24 06:45	5° 8 55'16 11°32'24
			max. Earth dist.	6517 Apr 27 01:22	5° 8 59'58 41.43278 AU
conjunction	6511 Apr 16 12:55	27° Y 31'18 -9°42'42	morning rise	6517 May 04 02:54	6° 8 11'51
minimum elong	6511 Apr 16 12:42	27° Y 31'17 9°42'42	retrograde	6517 Aug 04 17:38	7° 8 44'54
max. Earth dist.	6511 Apr 19 07:29	27° Y 36'09 39.93581	AU min. Earth dist.	6517 Oct 23 17:18	6° 8 40'43 39.59664 AU
morning rise	6511 Apr 28 05:27	27° Ƴ 51'40	opposition	6517 Oct 26 13:14	6° 8 37'06 -12°15'49
retrograde	6511 Jul 27 21:42	29° Ƴ 24'50	direct	6518 Jan 16 01:51	5° 8 30'01
min. Earth dist.	6511 Oct 15 15:07	28° Y 19'09 38.09213	AU evening set	6518 Apr 16 09:30	7° 8 00'35
opposition	6511 Oct 18 09:52	28° Y 15′29 -10°23′4′		•	
direct	6512 Jan 07 23:18	27° Y ′06'41	conjunction	6518 Apr 25 21:04	7° 8 16'28 -11°48'39
evening set	6512 Apr 05 19:25	28° Ƴ 37'39	minimum elong	6518 Apr 25 20:51	7° 8 16'27 11°48'41
Č	1		max. Earth dist.	6518 Apr 28 16:12	7° 8 21'10 41.67423 AU
conjunction	6512 Apr 17 04:40	28° Υ '57'22 -10°02'29		6518 May 05 08:49	7° 8 32'22
minimum elong	6512 Apr 17 04:27	28° Υ 57'21 10°02'3	•	6518 Aug 06 06:27	9° 8 05'28
max. Earth dist.	6512 Apr 19 22:37	29° Υ 02'10 40.18816	0	6518 Oct 25 10:01	8° 8 01'25 39.83842 AU
morning rise	6512 Apr 28 14:21	29° Υ 17'07	opposition	6518 Oct 28 04:39	7° 8 57'52 -12°32'24
morning 1130	6512 May 25 08:21	0°8	direct	6519 Jan 17 19:09	6° 8 51'01
retrograde	6512 Jul 28 14:52	0° 8 50'13	evening set	6519 Apr 18 07:43	8° 8 21'35
renograde	6512 Oct 04 13:39	30°RΥ	evening set	0319 Apr 16 07.43	8 021 33
min. Earth dist.		29° Υ 44'51 38.34645	: AII againmation	6519 Apr 27 10:47	8° 8 36'47 -12°04'23
	6512 Oct 16 07:11	29° Y 41'08 -10°43'59	J	•	8°\dagger 36'47 12°04'25
opposition	6512 Oct 19 03:18			6519 Apr 27 10:36	
direct	6513 Jan 08 15:41	28° Y 32'37	max. Earth dist.	6519 Apr 30 04:38	8° 8 41'23 41.91237 AU
. ,	6513 Apr 05 16:53	0°8	morning rise	6519 May 06 14:08	8° 8 52'02
evening set	6513 Apr 07 17:51	0° 8 03'28	retrograde	6519 Aug 07 21:43	10° 8 25'10
	(512) 10 20 02	00110001	min. Earth dist.	6519 Oct 27 00:09	9° 8 21'20 40.07695 AU
conjunction	6513 Apr 18 20:03	0° 8 22'34 -10°21'39	11	6519 Oct 29 19:26	9° 8 17'46 -12°48'24
minimum elong	6513 Apr 18 19:50	0° 8 22'33 10°21'40		6520 Jan 19 08:50	8° 8 11'08
max. Earth dist.	6513 Apr 21 15:23	0° 8 27'25 40.44009	AU evening set	6520 Apr 19 05:36	9° 8 41'42
morning rise	6513 Apr 29 22:34	0° 8 41'42		6500 / 50 TT	001.15015
retrograde	6513 Jul 30 07:39	2° 8 14'45	conjunction	6520 Apr 28 00:09	9° 8 56'15 -12°19'35
min. Earth dist.	6513 Oct 18 01:06	1° 8 09'35 38.60013	•	6520 Apr 27 23:56	9° 8 56'14 12°19'38
opposition	6513 Oct 20 20:31	1° 8 05'56 -11°03'30		6520 Apr 30 18:20	10° 8 00'50 42.14746 AU
	6513 Dec 28 00:40	30° ₹Y	morning rise	6520 May 06 18:58	10° 8 10'49
direct	6514 Jan 10 07:46	29° Ƴ 57'44	retrograde	6520 Aug 08 11:49	11° 8 44'00
	6514 Jan 23 12:29	0° 8	min. Earth dist.	6520 Oct 27 15:56	10° 8 40'18 40.31283 AU
evening set	6514 Apr 09 16:24	1° 8 28'28	opposition	6520 Oct 30 10:13	10° 8 36'48 -13°03'51
			direct	6521 Jan 19 22:34	9° 8 30'24
conjunction	6514 Apr 20 11:14	1° 8 46'56 -10°40'12	evening set	6521 Apr 21 03:24	11° 8 00'59
minimum elong	6514 Apr 20 11:01	1° 8 46'55 10°40'14	4		
max. Earth dist.	6514 Apr 23 06:16	1° 8 51'44 40.69122	2 AU conjunction	6521 Apr 29 13:07	11° 8 14'51 -12°34'15
morning rise	6514 May 01 06:21	2° 8 05'26	minimum elong	6521 Apr 29 12:56	11° 8 14'50 12°34'17
retrograde	6514 Jul 31 23:19	3° 8 38'28	max. Earth dist.	6521 May 02 07:28	11° 8 19'25 42.38030 AU
min. Earth dist.	6514 Oct 19 16:41	2° 8 33'36 38.85261		6521 May 07 22:56	11° 8 28'43
opposition	6514 Oct 22 13:02	2° 8 29'54 -11°22'3	· ·	6521 Aug 09 23:08	13° 8 02'00
direct	6515 Jan 11 23:49	1° 8 22'00	min. Earth dist.	6521 Oct 29 05:47	11° 8 58'30 40.54656 AU
evening set	6515 Apr 11 14:47	2° 8 52'40	opposition	6521 Nov 01 00:29	11° 8 54'59 -13°18'43
-0	-r · · · ·	- - = · ·	-rr		<u> </u>

1.	(500 I 01 14 10	100 40140		(520.14 00.00.50	200 40 2105 1 1000102
direct	6522 Jan 21 14:19	10° 8 48'48	conjunction	6528 May 08 00:50	20° 8 06'05 -14°02'06
evening set	6522 Apr 23 01:12	12° 8 19'28	minimum elong	6528 May 08 00:41	20° 8 06'04 14°02'08
			max. Earth dist.	6528 May 10 18:43	20° 8 10'28 43.96002 AU
conjunction	6522 May 01 01:47	12° 8 32'38 -12°48'22	morning rise	6528 May 13 11:50	20° 8 14'47
minimum elong	6522 May 01 01:35	12° 8 32'37 12°48'24	retrograde	6528 Aug 18 09:54	21° 8 49'38
max. Earth dist.	6522 May 03 19:33	12° 8 37'08 42.61124	AU min. Earth dist.	6528 Nov 07 03:16	20° 8 47'32 42.13085 AU
morning rise	6522 May 09 02:36	12° 8 45'49	opposition	6528 Nov 09 20:14	20° 8 44'12 -14°47'21
retrograde	6522 Aug 11 11:10	14° 8 19'12	direct	6529 Jan 30 11:04	19° 8 39'45
min. Earth dist.	6522 Oct 30 19:30	13° 8 15'55 40.77877	AU evening set	6529 May 04 13:00	21° 8 11'55
opposition	6522 Nov 02 14:24	13° 8 12'24 -13°33'01	Ü	,	
direct	6523 Jan 23 04:43	12° 8 06'27	conjunction	6529 May 09 11:49	21° 8 19'47 -14°12'41
evening set	6523 Apr 24 23:00	13° 8 37'13	minimum elong	6529 May 09 11:40	21° 8 19'47 14°12'44
evening set	0323 Apr 24 23.00	13 03/13	max. Earth dist.	6529 May 12 04:04	21° 8 24'03 44.17478 AU
	(522 M 02 14 10	120 40141 12001155		•	_
conjunction	6523 May 02 14:19	13° 8 49'41 -13°01'57	0	6529 May 14 10:38	21° 8 27'40
minimum elong	6523 May 02 14:09	13° 8 49'40 13°01'59	0	6529 Aug 19 21:06	23° 8 02'53
max. Earth dist.	6523 May 05 09:04	13° 8 54'14 42.84079		6529 Nov 08 15:20	22° 8 00'59 42.34515 AU
morning rise	6523 May 10 05:43	14° 8 02'10	opposition	6529 Nov 11 08:23	21° 8 57'39 -14°57'59
	6523 Jun 18 14:42	15° 8	direct	6530 Jan 31 23:51	20° 8 53'25
retrograde	6523 Aug 12 21:43	15° 8 35'43	evening set	6530 May 06 13:08	22° 8 25'59
	6523 Oct 09 13:59	15° Ŗ ႘			
min. Earth dist.	6523 Nov 01 09:52	14° 8 32'35 41.00938	AU conjunction	6530 May 10 22:53	22° 8 32'57 -14°22'51
opposition	6523 Nov 04 04:03	14° 8 29'07 -13°46'45	minimum elong	6530 May 10 22:45	22° 8 32'56 14°22'52
direct	6524 Jan 24 20:23	13° 8 23'25	max. Earth dist.	6530 May 13 15:19	22° 8 37'12 44.38522 AU
evening set	6524 Apr 25 20:48	14° 8 54'19	morning rise	6530 May 15 08:35	22° 8 39'55
	6524 Apr 29 08:53	15° 8	retrograde	6530 Aug 21 08:08	24° 8 15'35
	002.11p1 25 00.05	0	min. Earth dist.	6530 Nov 10 05:00	23° 8 13'45 42.55488 AU
conjunction	6524 May 03 02:21	15° 8 06'04 -13°15'00		6530 Nov 12 20:12	23° 8 10'32 -15°08'11
minimum elong	6524 May 03 02:21	15° 8 06'03 13°15'02		6531 Feb 02 13:01	22° 8 06'29
max. Earth dist.	•	15° 8 10'32 43.06884			23° 8 39'32
	6524 May 05 20:08		AU evening set	6531 May 08 14:33	23 03932
morning rise	6524 May 10 08:02	15° 8 17'50		(521.) (12.00.40	222
retrograde	6524 Aug 13 11:01	16° 8 51'35	conjunction	6531 May 12 09:40	23°845'30 -14°32'34
min. Earth dist.	6524 Nov 01 22:10	15° 8 48'43 41.23846	Ü	6531 May 12 09:32	23° 8 45'29 14°32'37
opposition	6524 Nov 04 17:24	15° 8 45'13 -13°59'55		6531 May 15 00:48	23° 8 49'38 44.59125 AU
	6524 Dec 14 13:30	15°R 8	morning rise	6531 May 16 04:39	23° 8 51'28
direct	6525 Jan 25 09:17	14° 8 39'46	retrograde	6531 Aug 22 20:11	25° 8 27'38
	6525 Mar 06 22:53	15° 8	min. Earth dist.	6531 Nov 11 16:17	24° 8 25'58 42.76014 AU
evening set	6525 Apr 27 18:38	16° 8 10'50	opposition	6531 Nov 14 07:42	24° 8 22'45 -15°17'55
			direct	6532 Feb 03 23:24	23° 8 18'53
conjunction	6525 May 04 14:17	16° 8 21'52 -13°27'31	evening set	6532 May 09 17:36	24° 8 52'32
minimum elong	6525 May 04 14:07	16° 8 21'51 13°27'34			
max. Earth dist.	6525 May 07 08:54	16° 8 26'21 43.29523	AU conjunction	6532 May 12 19:57	24° 8 57'23 -14°41'52
morning rise	6525 May 11 10:03	16° 8 32'54	minimum elong	6532 May 12 19:50	24° 8 57'22 14°41'54
retrograde	6525 Aug 15 01:13	18° 8 06'52	morning rise	6532 May 15 22:11	25° 8 02'14
min. Earth dist.	6525 Nov 03 12:28	17° 8 04'10 41.46570	•	6532 May 15 10:31	25° 8 01'28 44.79298 AU
opposition	6525 Nov 06 06:35	17° 8 00'44 -14°12'33		6532 Aug 23 08:44	26° 8 39'02
direct	6526 Jan 26 20:53	15° 8 55'33	min. Earth dist.	6532 Nov 12 04:48	25° 8 37'27 42.96153 AU
evening set	6526 Apr 29 16:43	17° 8 26'50	opposition	6532 Nov 14 19:07	25° 8 34'17 -15°27'13
evening set	0320 Apr 27 10.43	17 02030	direct	6533 Feb 04 08:14	24° 8 30'35
conjunction	6526 May 06 01:58	17° 8 37'06 -13°39'32		6533 May 12 00:57	26° 8 05'07
minimum elong	•	17° 8 37'06 13°39'34	0	0555 Way 12 00.57	20 00307
U	6526 May 06 01:48			6522 May 14 06:12	260 \$ 00125 1 4050144
max. Earth dist.	6526 May 08 20:04	17° 8 41'33 43.51968	•	6533 May 14 06:13	26° 8 08'35 -14°50'44
morning rise	6526 May 12 11:15	17° 8 47'24	minimum elong	6533 May 14 06:06	26° 8 08'34 14°50'47
retrograde	6526 Aug 16 14:31	19° 8 21'37	morning rise	6533 May 16 11:18	26° 8 12'02
min. Earth dist.	6526 Nov 05 00:46	18° 8 19'10 41.69053		6533 May 16 20:56	26° 8 12'39 44.99127 AU
opposition	6526 Nov 07 19:21	18° 8 15'44 -14°24'39	· ·	6533 Aug 24 16:54	27° 8 49'44
direct	6527 Jan 28 07:21	17° 8 10'48	min. Earth dist.	6533 Nov 13 16:12	26° 8 48'16 43.15960 AU
evening set	6527 May 01 15:01	18° 8 42'20	opposition	6533 Nov 16 06:04	26° 8 45'09 -15°36'04
			direct	6534 Feb 05 20:27	25° 8 41'35
conjunction	6527 May 07 13:25	18° 8 51'51 -13°51'03			
minimum elong	6527 May 07 13:16	18° 8 51'50 13°51'06	conjunction	6534 May 15 16:03	27° 8 19'06 -14°59'09
max. Earth dist.	6527 May 10 06:57	18° 8 56'13 43.74140	AU minimum elong	6534 May 15 15:57	27° 8 19'05 14°59'12
morning rise	6527 May 13 11:55	19° 8 01'21	evening set	6534 May 15 00:13	27° 8 18'04
retrograde	6527 Aug 18 01:59	20° 8 35'53	morning rise	6534 May 16 07:42	27° 8 20'07
min. Earth dist.	6527 Nov 06 14:05	19° 8 33'36 41.91251		6534 May 18 05:31	27° 8 23'04 45.18661 AU
opposition	6527 Nov 09 07:52	19° 8 30'13 -14°36'14		6534 Aug 26 01:07	28° 8 59'47
direct	6528 Jan 29 19:51	18° 8 25'32	min. Earth dist.	6534 Nov 15 02:48	27° 8 58'28 43.35504 AU
evening set	6528 May 02 13:47	19° 8 57'22	opposition	6534 Nov 17 16:50	27° 8 55'20 -15°44'27
	, 10	. • ==	- rr	10.00	· - · · · · · · · · · · · · · · · · · · ·

direct	6535 Feb 07 08:22	26° 8 51'57	min. Earth dist.	6542 Nov 24 15:03	7° Д 02'17 44.81433 AU	ſ
			opposition	6542 Nov 26 23:26	6° Ⅱ 59'30 -16°36'05	
conjunction	6535 May 17 01:50	28° 8 28'59 -15°07'09	direct	6543 Feb 16 15:46	5° Ⅱ 57'33	
minimum elong	6535 May 17 01:43	28° 8 28'58 15°07'11				
max. Earth dist.	6535 May 19 16:03	28° 8 33'00 45.37945	AU conjunction	6543 May 26 01:34	7° Ⅱ 31′24 -15°56′24	
	6535 Jul 30 00:54	$\Pi^{\circ}0$	minimum elong	6543 May 26 01:31	7° Ⅱ 31′24 15°56′27	
retrograde	6535 Aug 27 08:57	0° Ⅱ 09'14	max. Earth dist.	6543 May 28 10:38	7° I 34'58 46.81637 AU	ſ
	6535 Sep 25 07:01	30° ₹ 8	retrograde	6543 Sep 05 13:06	9° Ⅱ 08'37	
min. Earth dist.	6535 Nov 16 14:28	29° 8 08'00 43.54795		6543 Nov 26 00:12	8° П 08'27 44.97806 AU	j
opposition	6535 Nov 19 03:18	29° 8 04'56 -15°52'23	opposition	6543 Nov 28 08:16	8° I 05'42 -16°40'50	
direct	6536 Feb 08 21:46	28° 8 01'43	direct	6544 Feb 17 23:21	7° Ⅱ 03'53	
conjunction	6536 May 17 11:20	29° 8 38'18 -15°14'42	conjunction	6544 May 26 09:45	8° Д 37'21 -16°00'56	
minimum elong	6536 May 17 11:15	29° 8 38'17 15°14'45	minimum elong	6544 May 26 09:42	8° II 37'21 16°00'59	
max. Earth dist.	6536 May 20 00:29	29° 8 42'13 45.57008	AU max. Earth dist.	6544 May 28 17:18	8° Ⅱ 40'49 46.97712 AU	ſ
	6536 May 31 16:14	$\Pi^{\circ}0$	retrograde	6544 Sep 05 20:52	10° I 14′13	
retrograde	6536 Aug 27 19:53	1° Ⅲ 18′07	min. Earth dist.	6544 Nov 26 09:57	9° Ⅱ 14'06 45.13756 AU	ſ
min. Earth dist.	6536 Nov 16 23:58	0° I 17'05 43.73858	AU opposition	6544 Nov 28 17:07	9° Ⅱ 11'24 -16°45'13	
opposition	6536 Nov 19 13:34	0° Ⅱ 14′00 -15°59′52	direct	6545 Feb 18 08:00	8° Ⅱ 09'44	
	6536 Dec 01 07:06	30° ₹ 8				
direct	6537 Feb 09 07:31	29° 8 10'57	conjunction	6545 May 27 17:47	9° Ⅱ 42'50 -16°05'06	
	6537 Apr 16 18:20	$\Pi^{\circ}0$	minimum elong	6545 May 27 17:46	9° Ⅱ 42'50 16°05'09	
			max. Earth dist.	6545 May 30 01:48	9° Ⅱ 46'18 47.13393 AU	ĺ
conjunction	6537 May 18 20:31	0° I 47′06 -15°21′50	retrograde	6545 Sep 07 01:01	11° Ⅱ 19′20	
minimum elong	6537 May 18 20:25	0° I 47'05 15°21'52	min. Earth dist.	6545 Nov 27 19:40	10° Ⅱ 19'17 45.29326 AU	ĺ
max. Earth dist.	6537 May 21 09:38	0° Д 51'00 45.75830	11	6545 Nov 30 01:42	10° Ⅱ 16'38 -16°49'14	
retrograde	6537 Aug 29 06:45	2° Ⅱ 26'31	direct	6546 Feb 19 19:46	9° Ⅱ 15'05	
min. Earth dist.	6537 Nov 18 11:27	1° П 25'35 43.92675				
opposition	6537 Nov 20 23:48	1° Ⅱ 22'34 -16°06'55	conjunction	6546 May 29 01:39	10° I 47'50 -16°08'56	
direct	6538 Feb 10 16:14	0° Ⅱ 19'43	minimum elong	6546 May 29 01:37	10° I I47'50 16°08'59	r
. ,.	6520 M 20 05 40	10T55126 15020122	max. Earth dist.	6546 May 31 08:07	10° I I51'12 47.28742 AU	
conjunction	6538 May 20 05:48	1°П55'26 -15°28'33	retrograde	6546 Sep 08 08:44	12° П 23'59 11° П 24'04 45.44592 AU	r
minimum elong max. Earth dist.	6538 May 20 05:43	1° П 55'26 15°28'36 1° П 59'20 45.94403	min. Earth dist.	6546 Nov 29 03:29 6546 Dec 01 09:50	11° П 24'04 45.44592 AU 11° П 21'25 -16°52'53	
retrograde	6538 May 22 18:57 6538 Aug 30 15:17	3° П 34'28	AU opposition direct	6547 Feb 21 04:47	11 H 2123 -16 3233 10° H 19'59	
min. Earth dist.	6538 Nov 19 21:21	2° Д 33'42 44.11199		0347100 21 04.47	10 11939	
opposition	6538 Nov 22 09:30	2° Ц 30'42 -16°13'32	conjunction	6547 May 30 09:22	11° Д 52'23 -16°12'23	
direct	6539 Feb 12 01:31	1° П 28'02	minimum elong	6547 May 30 09:22	11° II 52'23 16°12'26	
	0000 12 01.51	1 220 02	max. Earth dist.	6547 Jun 01 15:54	11° I 55'44 47.43801 AU	ſ
conjunction	6539 May 21 14:44	3° I 03'23 -15°34'51	retrograde	6547 Sep 09 17:47	13° Ⅱ 28'13	
minimum elong	6539 May 21 14:39	3° I 03'23 15°34'54	min. Earth dist.	6547 Nov 30 13:14	12° Ⅱ 28'21 45.59584 AU	ſ
max. Earth dist.	6539 May 24 02:27	3° I 107'10 46.12666		6547 Dec 02 18:05	12° Ⅱ 25'46 -16°56'10	
retrograde	6539 Sep 01 00:24	4° Ⅲ 42'02	direct	6548 Feb 22 13:42	11° Ⅱ 24′29	
min. Earth dist.	6539 Nov 21 07:28	3° II 41'25 44.29401	AU			
opposition	6539 Nov 23 19:15	3° II 38'27 -16°19'44	conjunction	6548 May 30 16:50	12° I 56'32 -16°15'30	
direct	6540 Feb 13 10:31	2° II 35'59	minimum elong	6548 May 30 16:49	12° I 56'32 16°15'33	
			max. Earth dist.	6548 Jun 01 23:05	12° I 59'52 47.58615 AU	ſ
conjunction	6540 May 21 23:35	4° Ⅱ 10'57 -15°40'47	retrograde	6548 Sep 10 02:32	14° Ⅱ 32′03	
minimum elong	6540 May 21 23:31	4° Ц 10'56 15°40'50	min. Earth dist.	6548 Nov 30 20:51	13° Д 32'20 45.74316 AU	ĺ
max. Earth dist.	6540 May 24 11:43	4° Ⅱ 14'45 46.30574	**	6548 Dec 03 02:02	13° Ⅱ 29'45 -16°59'04	
retrograde	6540 Sep 01 07:30	5° Ⅱ 49'15	direct	6549 Feb 22 20:04	12° Ⅲ 28'36	
min. Earth dist.	6540 Nov 21 18:39	4° Ⅱ 48'44 44.47202				
opposition	6540 Nov 24 04:51	4° I I45'50 -16°25'33	conjunction	6549 Jun 01 00:10	14° Ⅲ 00'21 -16°18'14	
direct	6541 Feb 13 22:06	3° Ⅱ 43'33	minimum elong	6549 Jun 01 00:11	14° I I00'21 16°18'17	r
	(541 M 22 00 22	50T10000 1504620	max. Earth dist.	6549 Jun 03 05:18	14° I 103'35 47.73171 AU	
conjunction	6541 May 23 08:22	5°II18'09 -15°46'20	ū	6549 Sep 11 11:41	15° Ⅲ 35'32	r
minimum elong	6541 May 23 08:18	5°II18'09 15°46'23	min. Earth dist.	6549 Dec 02 05:25	14° Д 35'55 45.88795 AU 14° Д 33'23 -17°01'37	
max. Earth dist.	6541 May 25 18:49	5° Ⅱ 21'50 46.48071 6° Ⅱ 56'06		6549 Dec 04 09:53 6550 Feb 24 00:23	14°Щ33'23 -1/°01'3/ 13°Щ32'23	
retrograde min. Earth dist.	6541 Sep 02 17:07 6541 Nov 23 03:51	5° П 55'45 44.64564	direct	0550 Feb 24 00:23	13 1134 43	
opposition	6541 Nov 25 14:09	5° Д 52'52 -16°31'00	conjunction	6550 Jun 02 07:34	15° 耳 03'50 -16°20'38	
direct	6542 Feb 15 07:52	4°П50'45	minimum elong	6550 Jun 02 07:33	15° Д 03'50 -16°20'42	
311001	00.12.100 10 07.02	1 200 70	max. Earth dist.	6550 Jun 04 13:05	15° П 07'05 47.87464 AU	ſ
conjunction	6542 May 24 17:01	6° Ц 24'59 -15°51'33	retrograde	6550 Sep 12 17:00	16° I 38'44	
minimum elong	6542 May 24 16:58	6° П 24'58 15°51'36	min. Earth dist.	6550 Dec 03 14:08	15° Д 39'12 46.02968 AU	ſ
max. Earth dist.	6542 May 27 02:56	6° Ц 28'36 46.65095		6550 Dec 05 17:33	15° Д 36'43 -17°03'48	
retrograde	6542 Sep 04 04:34	8° Ⅱ 02'34	direct	6551 Feb 25 09:30	14° Ⅲ 35'52	
S	1					

conjunction	6551 Jun 03 14:40	16° Ⅱ 07'01 -16°22'42	retrograde	6559 Sep 22 07:24	25°Ⅲ53'56
3	6551 Jun 03 14:41	16° I 07'01 -16°22'45	min. Earth dist.	6559 Dec 13 13:33	24° I I54'59 47.11155 AU
minimum elong					24° I 52'56 -17°09'44
max. Earth dist.	6551 Jun 05 18:38	16° Ⅱ 10'11 48.01443 AU	opposition	6559 Dec 15 08:51	
retrograde	6551 Sep 13 22:21	17° Ⅱ 41'38	direct	6560 Mar 06 01:39	23° Ⅲ 53′03
min. Earth dist.	6551 Dec 04 21:34	16° Ⅱ 42'16 46.16807 AU			_
opposition	6551 Dec 07 01:01	16° Ⅱ 39'47 -17°05'39	conjunction	6560 Jun 12 03:00	25° Ⅱ 21'48 -16°28'02
direct	6552 Feb 26 18:32	15° Ⅱ 39′04	minimum elong	6560 Jun 12 03:05	25° Ⅱ 21'48 16°28'05
			max. Earth dist.	6560 Jun 13 23:56	25° Ⅲ 24'27 49.07634 AU
conjunction	6552 Jun 03 21:48	17° Ⅱ 09'57 -16°24'27	retrograde	6560 Sep 22 12:27	26° Ⅲ 54′00
minimum elong	6552 Jun 03 21:48	17° Ⅱ 09'57 16°24'30	min. Earth dist.	6560 Dec 13 20:31	25° Ⅲ 55'07 47.21215 AU
max. Earth dist.	6552 Jun 06 01:34	17° Ⅱ 13'06 48.15056 AU	opposition	6560 Dec 15 15:12	25° Ⅲ 53'06 -17°08'53
retrograde	6552 Sep 14 06:21	18° Ⅱ 44'18	direct	6561 Mar 07 08:04	24° Ⅱ 53'19
min. Earth dist.	6552 Dec 05 06:59	17° Ⅱ 44'58 46.30249 AU			
opposition	6552 Dec 07 08:34	17° I 42'35 -17°07'11	conjunction	6561 Jun 13 08:59	26° Ⅱ 21'51 -16°27'10
direct	6553 Feb 27 03:40	16° Ⅱ 42'01	minimum elong	6561 Jun 13 09:02	26° I [21'51 16°27'13
direct	0333100 27 03.40	10 1142 01	max. Earth dist.	6561 Jun 15 04:19	26° I 24'25 49.17571 AU
	(552 Jan 05 04.51	199П12127 17925152			20 H 24 23 49.17371 AO 27° H 53'51
conjunction	6553 Jun 05 04:51	18° Ⅱ 12'37 -16°25'53	retrograde	6561 Sep 23 17:06	
minimum elong	6553 Jun 05 04:53	18° Ⅱ 12'37 16°25'56	min. Earth dist.	6561 Dec 15 02:53	26° Ⅲ 55'05 47.30988 AU
max. Earth dist.	6553 Jun 07 07:38	18° Ⅱ 15'41 48.28253 AU	opposition	6561 Dec 16 21:27	26° ∏ 53'04 -17°07'45
retrograde	6553 Sep 15 15:14	19° Ⅱ 46'42	direct	6562 Mar 08 14:39	25° Ⅱ 53′24
min. Earth dist.	6553 Dec 06 14:30	18° ∏ 47'29 46.43222 AU			
opposition	6553 Dec 08 15:51	18° Ⅱ 45'07 -17°08'25	conjunction	6562 Jun 14 15:05	27° Ⅲ 21'44 -16°26'01
direct	6554 Feb 28 10:06	17° Ⅱ 44'40	minimum elong	6562 Jun 14 15:10	27° Ⅲ 21'45 16°26'04
			max. Earth dist.	6562 Jun 16 10:25	27° Ⅲ 24'18 49.27199 AU
conjunction	6554 Jun 06 11:51	19° Ⅱ 15'00 -16°27'02	retrograde	6562 Sep 24 22:17	28° Ⅲ 53'33
minimum elong	6554 Jun 06 11:53	19° Ⅱ 15'00 16°27'05	min. Earth dist.	6562 Dec 16 10:39	27° Ⅱ 54'49 47.40433 AU
max. Earth dist.	6554 Jun 08 12:53	19° Ⅱ 17'57 48.40950 AU	opposition	6562 Dec 18 03:32	27° I 52'53 -17°06'18
retrograde	6554 Sep 16 23:35	20°II48'48	direct	6563 Mar 09 23:27	26° I 53'20
min. Earth dist.	6554 Dec 07 23:19	19° П 49'37 46.55688 AU	direct	0303 Wai 07 23.27	20 1133 20
		19° I 47'20 -17°09'21		(5(2 Jun 15 21:04	200T21120 16024124
opposition	6554 Dec 09 23:02		conjunction	6563 Jun 15 21:04	28°II21'29 -16°24'34
direct	6555 Mar 01 15:27	18° Ⅱ 47'00	minimum elong	6563 Jun 15 21:08	28° Ⅲ 21'29 16°24'37
		_	max. Earth dist.	6563 Jun 17 15:25	28° Ⅲ 23'59 49.36506 AU
conjunction	6555 Jun 07 18:53	20° Ⅱ 17'03 -16°27'55	retrograde	6563 Sep 26 06:29	29° Ⅱ 53'07
minimum elong	6555 Jun 07 18:55	20° Ⅱ 17'04 16°27'59	min. Earth dist.	6563 Dec 17 16:33	28° I 54'31 47.49522 AU
max. Earth dist.	6555 Jun 09 19:46	20° Ⅱ 19'59 48.53134 AU	opposition	6563 Dec 19 09:31	28° Ⅲ 52'35 -17°04'35
retrograde	6555 Sep 18 03:58	21° Ⅲ 50'34	direct	6564 Mar 10 05:05	27° Ⅲ 53′09
min. Earth dist.	6555 Dec 09 07:39	20° Ц 51'25 46.67621 AU			
opposition	6555 Dec 11 06:07	20° Ⅱ 49'12 -17°10'01	conjunction	6564 Jun 16 02:48	29° Ⅲ 21'08 -16°22'51
direct	6556 Mar 01 23:18	19° Ⅱ 48'58	minimum elong	6564 Jun 16 02:53	29° Ⅲ 21'08 16°22'54
			max. Earth dist.	6564 Jun 17 19:51	29° I I23'32 49.45422 AU
conjunction	6556 Jun 08 01:25	21° Ⅱ 18'44 -16°28'31	max. Darm dist.	6564 Jul 14 15:26	0°95
minimum elong	6556 Jun 08 01:28	21° I 18'44 16°28'34	retrograde	6564 Sep 26 14:49	0°952'35
max. Earth dist.	6556 Jun 10 00:15	21° I I21'32 48.64817 AU	retrograde	=	30°RII
			: E 4 E 4	6564 Dec 12 16:51	29° ∏ 54'01 47.58201 AU
retrograde	6556 Sep 18 09:32	22° I 51'57	min. Earth dist.	6564 Dec 18 00:23	
min. Earth dist.	6556 Dec 09 14:50	21° I 52'53 46.79081 AU	opposition	6564 Dec 19 15:37	29° I 52'10 -17°02'35
opposition	6556 Dec 11 13:04	21° I 50'40 -17°10'24	direct	6565 Mar 11 08:39	28° Ⅱ 52'52
direct	6557 Mar 03 06:44	20° I I50'31		6565 Jun 02 12:10	0ං ම
conjunction	6557 Jun 09 08:03	22° Ⅱ 20'01 -16°28'50	conjunction	6565 Jun 17 08:51	0°\$20'40 -16°20'53
minimum elong	6557 Jun 09 08:05	22° Ⅱ 20'01 16°28'54	minimum elong	6565 Jun 17 08:56	0°\$20'41 16°20'55
max. Earth dist.	6557 Jun 11 06:42	22° Ⅱ 22'48 48.76046 AU	max. Earth dist.	6565 Jun 19 01:42	0°523'04 49.53899 AU
retrograde	6557 Sep 19 15:30	23° Ⅱ 52'58	retrograde	6565 Sep 27 19:45	1° 9 51'57
min. Earth dist.	6557 Dec 10 23:33	22° Д 53'53 46.90118 AU	min. Earth dist.	6565 Dec 19 07:14	0°953'26 47.66390 AU
opposition	6557 Dec 12 19:50	22° I 51'46 -17°10'28	opposition	6565 Dec 20 21:24	0°951'38 -17°00'20
direct	6558 Mar 04 15:33	21° I 51'42	оррозион	6566 Feb 14 04:03	30°RII
anoct	5550 Min 07 15.55	-1	direct	6566 Mar 12 13:40	29° II 52'26
aamiumatiam	6550 Jun 10 14:22	220П20155 16020152	uncci		0°9
conjunction	6558 Jun 10 14:32	23°II20'55 -16°28'52		6566 Apr 07 17:49	∪ =39
minimum elong	6558 Jun 10 14:36	23° II 20'55 16°28'55		6566 X 10 11 15	1000000 1001000
max. Earth dist.	6558 Jun 12 12:23	23° Ⅱ 23'39 48.86902 AU	conjunction	6566 Jun 18 14:43	1°520'05 -16°18'40
retrograde	6558 Sep 20 22:36	24° Ⅲ 53'37	minimum elong	6566 Jun 18 14:50	1°520'05 16°18'43
min. Earth dist.	6558 Dec 12 05:51	23° I I54'38 47.00794 AU	max. Earth dist.	6566 Jun 20 05:13	1°522'19 49.61868 AU
opposition	6558 Dec 14 02:20	23° Ⅲ 52'30 -17°10'15	retrograde	6566 Sep 29 00:26	2° 9 51'09
direct	6550 Mar 05 22:12	22° Ⅲ 52'31	min. Earth dist.	6566 Dec 20 13:50	1°952'42 47.74051 AU
	6559 Mar 05 22:12				
	6339 Wai 03 22.12		opposition	6566 Dec 22 03:13	1°950'57 -16°57'50
conjunction	6559 Jun 11 20:44	24° П 21'30 -16°28'36	opposition direct		1°©50'57 -16°57'50 0°©51'49
	6559 Jun 11 20:44		**	6566 Dec 22 03:13 6567 Mar 13 19:04	
conjunction minimum elong max. Earth dist.		24° П 21'30 -16°28'36	**		

minimum elong	6567 Jun 19 20:39	2°©19'17 16°16'16	min. Earth dist.	6575 Dec 29 21:55	10°934'34 48.23784 AU
max. Earth dist.	6567 Jun 21 10:28	2°521'29 49.69284 AU	opposition	6575 Dec 31 02:57	10°933'13 -16°24'05
retrograde	6567 Sep 30 04:14	3° 9 50'11	direct	6576 Mar 21 21:36	9° © 34'32
min. Earth dist.	6567 Dec 21 21:45	2°951'41 47.81153 AU			
opposition	6567 Dec 23 09:00	2°950'02 -16°55'07	conjunction	6576 Jun 27 20:33	11°500'36 -15°43'02
direct	6568 Mar 14 03:01	1° 9 50'58	minimum elong	6576 Jun 27 20:40	11°500'36 15°43'05
			max. Earth dist.	6576 Jun 29 01:55	11°502'17 50.17930 AU
conjunction	6568 Jun 20 02:17	3°518'14 -16°13'32	retrograde	6576 Oct 08 05:57	12° © 30'02
minimum elong	6568 Jun 20 02:23	3°5518'14 16°13'36	min. Earth dist.	6576 Dec 30 03:35	11°531'44 48.27599 AU
max. Earth dist.	6568 Jun 21 14:53	3°520'22 49.76183 AU	opposition	6576 Dec 31 07:53	11° © 30'25 -16°19'01
retrograde	6568 Sep 30 09:52	4°5548'56	direct	6577 Mar 23 00:42	10° © 31'48
min. Earth dist.	6568 Dec 22 03:26	3°950'30 47.87751 AU	J		
opposition	6568 Dec 23 14:32	3°548'51 -16°52'09	conjunction	6577 Jun 29 01:44	11° 9 57'48 -15°38'06
direct	6569 Mar 15 10:37	2° 5 49'49	minimum elong	6577 Jun 29 01:54	11°957'48 15°38'09
			max. Earth dist.	6577 Jun 30 06:49	11°959'28 50.21596 AU
conjunction	6569 Jun 21 07:46	4°516'53 -16°10'38	retrograde	6577 Oct 09 09:33	13° © 27'09
minimum elong	6569 Jun 21 07:53	4°916'54 16°10'40	min. Earth dist.	6577 Dec 31 10:38	12° © 28'49 48.30945 AU
max. Earth dist.	6569 Jun 22 18:48	4°छ18'55 49.82596 AU	opposition	6578 Jan 01 12:53	12°\$27'36 -16°13'44
retrograde	6569 Oct 01 18:47	5° 5 47'24	direct	6578 Mar 24 06:59	11° 5 29'03
min. Earth dist.	6569 Dec 23 10:42	4°548'55 47.93903 AU	J		
opposition	6569 Dec 24 20:07	4°5647'21 -16°48'56	conjunction	6578 Jun 30 07:00	12° © 54'57 -15°32'56
direct	6570 Mar 16 14:28	3°5548'21	minimum elong	6578 Jun 30 07:08	12°954'58 15°32'58
			max. Earth dist.	6578 Jul 01 10:32	12°\$56'32 50.24780 AU
conjunction	6570 Jun 22 13:23	5°\$15'15 -16°07'28	retrograde	6578 Oct 10 14:19	14° © 24'12
minimum elong	6570 Jun 22 13:29	5°515'15 16°07'31	opposition	6579 Jan 02 17:34	13°\$24'44 -16°08'14
max. Earth dist.	6570 Jun 24 00:26	5°517'16 49.88599 AU	min. Earth dist.	6579 Jan 01 15:35	13°\$25'56 48.33776 AU
retrograde	6570 Oct 03 00:12	6°545'33	direct	6579 Mar 25 13:20	12° © 26'14
min. Earth dist.	6570 Dec 24 16:38	5°5647'04 47.99660 AU	J		
opposition	6570 Dec 26 01:18	5°545'32 -16°45'28	conjunction	6579 Jul 01 12:07	13°952'03 -15°27'33
direct	6571 Mar 17 18:34	4°9346'35	minimum elong	6579 Jul 01 12:16	13°952'03 15°27'37
			max. Earth dist.	6579 Jul 02 13:46	13°S53'31 50.27428 AU
conjunction	6571 Jun 23 18:41	6°513'18 -16°04'03	retrograde	6579 Oct 11 22:18	15° © 21'12
minimum elong	6571 Jun 23 18:49	6°513'18 16°04'05	opposition	6580 Jan 03 22:33	14°521'46 -16°02'31
max. Earth dist.	6571 Jun 25 04:00	6°515'13 49.94249 AU	**	6580 Jan 02 22:36	14°922'53 48.36075 AU
retrograde	6571 Oct 04 04:45	7° 9 543'25	direct	6580 Mar 25 17:12	13° © 23'19
min. Earth dist.	6571 Dec 25 22:14	6°€44'58 48.05096 AU			
opposition	6571 Dec 27 06:36	6°543'27 -16°41'44	conjunction	6580 Jul 01 17:10	14°9549'02 -15°21'58
direct	6572 Mar 17 23:09	5° 5 44'32	minimum elong	6580 Jul 01 17:19	14°\$49'03 15°22'01
			max. Earth dist.	6580 Jul 02 18:36	14°950'29 50.29562 AU
conjunction	6572 Jun 23 23:53	7°9511'05 -16°00'22	retrograde	6580 Oct 12 04:07	16° © 18'05
minimum elong	6572 Jun 23 24:00	7°\$11'06 16°00'25	min. Earth dist.	6581 Jan 03 04:09	15°519'46 48.37861 AU
max. Earth dist.	6572 Jun 25 09:12	7°€13'01 49.99583 AU	opposition	6581 Jan 04 03:17	15°518'41 -15°56'35
retrograde	6572 Oct 04 06:40	8°5641'02	direct	6581 Mar 26 20:06	14°9520'15
min. Earth dist.	6572 Dec 26 05:01	7°9542'34 48.10222 AU	J		
opposition	6572 Dec 27 11:54	7°541'07 -16°37'43	conjunction	6581 Jul 02 22:08	15°945'53 -15°16'10
direct	6573 Mar 19 07:25	6°942'15	minimum elong	6581 Jul 02 22:17	15° © 45'54 15°16'14
			max. Earth dist.	6581 Jul 03 21:26	15° ≤ 47'13 50.31217 AU
conjunction	6573 Jun 25 05:11	8°908'40 -15°56'25	retrograde	6581 Oct 13 09:38	17° © 14'49
minimum elong	6573 Jun 25 05:19	8°508'40 15°56'28	min. Earth dist.	6582 Jan 04 09:36	16°€16′29 48.39209 AU
max. Earth dist.	6573 Jun 26 13:39	8°910'32 50.04639 AU	opposition	6582 Jan 05 07:50	16° © 15'27 -15°50'25
retrograde	6573 Oct 05 11:53	9° 5 38'28	direct	6582 Mar 27 23:16	15° © 17'02
min. Earth dist.	6573 Dec 27 09:43	8°540'04 48.15060 AU	J		
opposition	6573 Dec 28 16:51	8°938'36 -16°33'26	conjunction	6582 Jul 04 03:10	16°\$42'35 -15°10'09
direct	6574 Mar 20 13:35	7° 9 39'47	minimum elong	6582 Jul 04 03:20	16°5942'36 15°10'11
			max. Earth dist.	6582 Jul 05 02:08	16°9543'53 50.32452 AU
conjunction	6574 Jun 26 10:20	9°506'04 -15°52'13	retrograde	6582 Oct 14 10:27	18° © 11'26
minimum elong	6574 Jun 26 10:27	9°906'04 15°52'16	opposition	6583 Jan 06 12:28	17°9512'05 -15°44'02
max. Earth dist.	6574 Jun 27 17:34	9°907'52 50.09394 AU		6583 Jan 05 15:49	17°513'02 48.40159 AU
retrograde	6574 Oct 06 19:35	10°935'44	direct	6583 Mar 29 07:01	16°9513'40
opposition	6574 Dec 29 22:00	9°535'57 -16°28'53			
min. Earth dist.	6574 Dec 28 16:28	9°937'20 48.19595 AU	conjunction	6583 Jul 05 07:57	17°539'09 -15°03'53
direct	6575 Mar 21 17:24	8°\$37'12	minimum elong	6583 Jul 05 08:06	17°539'09 15°03'56
			max. Earth dist.	6583 Jul 06 05:59	17°5640'24 50.33334 AU
conjunction	6575 Jun 27 15:29	10°903'22 -15°47'45	retrograde	6583 Oct 15 14:22	19° © 07'54
minimum elong	6575 Jun 27 15:38	10°903'22 15°47'48	opposition	6584 Jan 07 16:56	18°908'35 -15°37'23
max. Earth dist.	6575 Jun 28 22:52	10°505'10 50.13840 AU	**	6584 Jan 06 20:08	18°509'33 48.40775 AU
retrograde	6575 Oct 08 00:42	11° © 32'55	direct	6584 Mar 29 13:33	17°9510'11
renograde					

evening set	6584 Jul 04 08:11	18° © 33'59	min. Earth dist.	6591 Jan 13 10:31	24°543'53 48.35804 AU
			opposition	6591 Jan 14 00:04	24°5643'15 -14°44'05
conjunction	6584 Jul 05 12:45	18°535'36 -14°57'23	direct	6591 Apr 05 17:34	23°\$45'00
minimum elong	6584 Jul 05 12:55	18°535'36 14°57'26	evening set	6591 Jul 07 12:19	25° © 02'54
morning rise	6584 Jul 06 17:42	18°537'15		6501 I I 10 00 50	250610117 14005110
max. Earth dist.	6584 Jul 06 09:31	18°536'47 50.33895 AU	conjunction	6591 Jul 12 22:50	25°\$10'17 -14°05'19
retrograde	6584 Oct 15 22:11	20°504'18	minimum elong	6591 Jul 12 23:01	25°5010'17 14°05'21
opposition	6585 Jan 07 21:30	19°505'00 -15°30'30	max. Earth dist.	6591 Jul 13 12:04	25°5011'01 50.28343 AU
min. Earth dist.	6585 Jan 07 02:18	19°505'53 48.41094 AU	morning rise	6591 Jul 18 10:07	25°\$17'41
direct	6585 Mar 30 17:15	18°506'37	retrograde	6591 Oct 23 11:41	26°538'43
evening set	6585 Jul 04 11:10	19° © 28'54	opposition	6592 Jan 15 04:34	25°539'38 -14°35'35
. ,.	(505 I I 0(17.20	100621150 14050120	min. Earth dist.	6592 Jan 14 16:08	25°5540'13 48.33281 AU
conjunction	6585 Jul 06 17:39	19°531'59 -14°50'38	direct	6592 Apr 05 19:31	24°9541'22
minimum elong	6585 Jul 06 17:48	19°531'59 14°50'41	evening set	6592 Jul 07 08:01	25°\$58'44
max. Earth dist.	6585 Jul 07 14:30	19°533'10 50.34174 AU		(502 Il 12 02.52	269606129 12957102
morning rise	6585 Jul 09 00:29 6585 Oct 17 03:23	19°535'05	conjunction	6592 Jul 13 03:52 6592 Jul 13 04:02	26°506'38 -13°57'02
retrograde		21°500'37	minimum elong		26°506'38 13°57'06
min. Earth dist.	6586 Jan 08 07:00	20°502'14 48.41113 AU	max. Earth dist.	6592 Jul 13 16:22	26°\$07'20 50.25669 AU 26°\$14'34
opposition	6586 Jan 09 01:56	20°501'21 -15°23'21	morning rise	6592 Jul 19 00:28	
direct	6586 Mar 31 20:54	19°503'00	retrograde	6592 Oct 23 13:24	27°\$35'02 26°\$35'56 -14°26'53
evening set	6586 Jul 04 22:28	20°©24'15	opposition	6593 Jan 15 09:00	
	(50(I-1 07 22-24	2096529110 14942120	min. Earth dist.	6593 Jan 14 22:29	26°536'25 48.30223 AU
conjunction	6586 Jul 07 22:24 6586 Jul 07 22:35	20°528'19 -14°43'39	direct	6593 Apr 07 01:48	25°937'39 26°954'30
minimum elong max. Earth dist.	6586 Jul 07 22.33 6586 Jul 08 17:26	20°\$28'20 14°43'42 20°\$29'24 50.34159 AU	evening set	6593 Jul 08 04:12	20 9034 30
		20°S32'25	:	(502 Il 14 00.40	2796-02152 12949122
morning rise	6586 Jul 10 22:50 6586 Oct 18 08:53	20 9 32 23 21° 9 56'53	conjunction minimum elong	6593 Jul 14 08:48 6593 Jul 14 08:59	27°902'53 -13°48'33 27°902'54 13°48'35
retrograde opposition	6587 Jan 10 06:17	20°\$57'40 -15°15'58	max. Earth dist.	6593 Jul 14 08.39 6593 Jul 14 20:02	27°S03'31 50.22502 AU
min. Earth dist.	6587 Jan 09 12:00	20°S58'31 48.40839 AU	morning rise	6593 Jul 20 14:12	27° © 11'19
direct	6587 Apr 01 22:13	19°\$59'21	retrograde	6593 Oct 24 16:03	28°931'15
evening set	6587 Jul 05 12:53	21°S19'46	opposition	6594 Jan 16 13:18	27°S32'08 -14°17'58
evening set	036/ Jul 03 12.33	21 301940	min. Earth dist.	6594 Jan 16 03:00	27°S32'37 48.26692 AU
conjunction	6587 Jul 09 03:15	21°\$24'40 -14°36'26	direct	6594 Apr 08 08:17	26°S33'48
minimum elong	6587 Jul 09 03:15	21°S24'40 -14 30'20 21°S24'40 14°36'28	evening set	6594 Jul 09 00:36	20° 9 53°48 27° 9 50'11
max. Earth dist.	6587 Jul 09 03:23	21°S25'44 50.33831 AU	evening set	0394 Jul 09 00.30	27 30 11
morning rise	6587 Jul 12 18:07	21°929'35	conjunction	6594 Jul 15 13:40	27°\$59'03 -13°39'51
retrograde	6587 Oct 19 11:43	21° 9 53'12	minimum elong	6594 Jul 15 13:50	27°\$59'03 13°39'54
opposition	6588 Jan 11 10:49	21°S54'01 -15°08'20	max. Earth dist.	6594 Jul 15 23:10	27°959'35 50.18874 AU
min. Earth dist.	6588 Jan 10 18:08	21°S54'47 48.40228 AU	morning rise	6594 Jul 22 03:37	28° © 07'57
direct	6588 Apr 02 03:27	20°955'44	retrograde	6594 Oct 25 22:35	29° 5 27'24
evening set	6588 Jul 05 05:07	22° © 15'25	opposition	6595 Jan 17 17:37	28°\$28'15 -14°08'50
evening set	0300 341 03 03.07	22 313 23	min. Earth dist.	6595 Jan 17 09:18	28°\$28'38 48.22742 AU
conjunction	6588 Jul 09 07:59	22°\$21'01 -14°28'58	direct	6595 Apr 09 12:44	27°\$29'54
minimum elong	6588 Jul 09 08:10	22°S21'02 14°29'01	evening set	6595 Jul 09 21:23	28°\$45'49
max. Earth dist.	6588 Jul 10 01:50	22°S22'02 50.33162 AU	evening set	0373 Jul 07 21.23	20 343 4)
morning rise	6588 Jul 13 11:26	22° 5 26'39	conjunction	6595 Jul 16 18:36	28°\$55'08 -13°30'56
retrograde	6588 Oct 19 15:07	23°549'32	minimum elong	6595 Jul 16 18:47	28°\$55'08 13°30'58
opposition	6589 Jan 11 15:13	22°\$50'24 -15°00'27	max. Earth dist.	6595 Jul 17 04:06	28°\$55'40 50.14867 AU
min. Earth dist.	6589 Jan 10 22:35	22°S51'10 48.39236 AU	morning rise	6595 Jul 23 16:39	29° 5 04'30
direct	6589 Apr 03 09:31	21°952'08		6595 Sep 08 12:13	0° Ω
evening set	6589 Jul 05 22:36	23°S11'11	retrograde	6595 Oct 27 03:24	0° Ω 23'28
e vennig see	0000 001 00 22.50	25 - 11 11	ronogrado	6595 Dec 15 11:54	30° №
conjunction	6589 Jul 10 12:54	23°9517'25 -14°21'17	opposition	6596 Jan 18 21:53	29°524'19 -13°59'29
minimum elong	6589 Jul 10 13:04	23°\$17'26 14°21'20	min. Earth dist.	6596 Jan 18 13:49	29°\$24'41 48.18426 AU
max. Earth dist.	6589 Jul 11 04:59	23°S18'20 50.32061 AU	direct	6596 Apr 09 16:54	28°\$25'55
morning rise	6589 Jul 15 03:50	23°\$23'42	evening set	6596 Jul 09 18:18	29° © 41'25
retrograde	6589 Oct 20 21:58	24°9545'56	8		
opposition	6590 Jan 12 19:38	23°5946'49 -14°52'22	conjunction	6596 Jul 16 23:16	29°551'11 -13°21'48
min. Earth dist.	6590 Jan 12 05:11	23°547'30 48.37786 AU	minimum elong	6596 Jul 16 23:26	29°951'11 13°21'50
direct	6590 Apr 04 14:31	22°9548'35	max. Earth dist.	6596 Jul 17 06:55	29°951'37 50.10522 AU
evening set	6590 Jul 06 17:14	24°\$07'02		6596 Jul 23 11:47	0°Ω
· · · · · · · · · · · · · · · · · · ·		- · · -	morning rise	6596 Jul 24 05:14	0° Ω 00'59
conjunction	6590 Jul 11 18:01	24°513'51 -14°13'24	retrograde	6596 Oct 27 09:38	1° Ω 19'31
minimum elong	6590 Jul 11 18:12	24°S13'52 14°13'27	opposition	6597 Jan 19 02:14	0°Ω20'21 -13°49'52
max. Earth dist.	6590 Jul 12 09:43	24°S14'45 50.30474 AU	min. Earth dist.	6597 Jan 18 18:58	0°Ω20'41 48.13796 AU
morning rise	6590 Jul 16 19:26	24°\$20'44	July Mist.	6597 Feb 06 16:21	30°RS
retrograde	6590 Oct 22 04:41	25°S42'20	direct	6597 Apr 10 18:30	29° 5 21'56
3		•		P	-

	6597 Jun	11	06:58	$0^{\circ}\Omega$	
evening set	6597 Jul	10	15:35	0° Ω 37′03	
conjunction	6597 Jul	18	04:15	0° Ω 47'15	-13°12'25
minimum elong	6597 Jul	18	04:27	0° Ω 47'15	13°12'27
max. Earth dist.	6597 Jul	18	11:42	0° Ω 47'40	50.05859 AU
morning rise	6597 Jul	25	17:56	0° Ω 57'28	
retrograde	6597 Oct	28	12:32	2° Ω 15'36	
opposition	6598 Jan	20	06:29	1° Ω 16′26	-13°40'01
min. Earth dist.	6598 Jan	20	00:40	1° Ω 16'42	48.08851 AU
direct	6598 Apr	11	23:44	0° Ω 18′00	
evening set	6598 Jul		13:10	1° Ω 32'46	
conjunction	6598 Jul	19	09:11	1° Ω 43′22	-13°02'48
minimum elong	6598 Jul	19	09:21	1° Ω 43′23	13°02'51
max. Earth dist.	6598 Jul	19	15:37	1° Ω 43'44	50.00908 AU
morning rise	6598 Jul	27	06:12	1° Q 54′01	
retrograde	6598 Oct	29	15:56	3° Ω 11'47	
opposition	6599 Jan	21	10:44	2° Ω 12'36	-13°29'56
min. Earth dist.	6599 Jan	21	04:45	2° Ω 12′53	48.03607 AU
direct	6599 Apr	13	04:59	1° Ω 14'10	
evening set	6599 Jul	12	10:44	2° Ω 28'37	
conjunction	6599 Jul		13:57	2° Ω 39'36	-12°52'58
minimum elong	6599 Jul	20	14:08	2° Ω 39'37	12°53'01
max. Earth dist.	6599 Jul	20	18:57	2° Ω 39'53	49.95635 AU
morning rise	6599 Jul	28	18:21	2° Q 50'41	
retrograde	6599 Oct	30	22:23	4° Ω 08'06	
opposition	6600 Jan	22	15:13	3° Ω 08′56	-13°19'36
min. Earth dist.	6600 Jan		11:02	3° Ω 09′08	47.98036 AU
direct	$6600~\mathrm{Apr}$	14	09:49	2° Ω 10′30	
evening set	6600 Jul	13	08:43	3° Ω 24'37	
conjunction	6600 Jul		19:02	3° Ω 36′01	-12°42'53
minimum elong	6600 Jul	21	19:13	3° Ω 36′02	12°42'56
max. Earth dist.	6600 Jul		00:03	3° Ω 36′18	49.90025 AU
morning rise	6600 Jul		06:22	3° Ω 47'30	
retrograde	6600 Nov			5° Ω 04'35	
opposition	6601 Jan			4° Ω 05′26	
min. Earth dist.	6601 Jan				47.92086 AU
direct	6601 Apr			3° Ω 06′59	
evening set	6601 Jul	14	07:03	4° Ω 20'49	
conjunction	6601 Jul	23	00:05	4° Ω 32'37	-12032136
minimum elong			00:03	4°Ω32'38	
max. Earth dist.	6601 Jul		02:49		49.84005 AU
morning rise	6601 Jul		18:24	4°Ω44'29	77.04003 AU
retrograde	6601 Nov			6°Ω01'15	
renograue	OUUI INOV	02	14.03	0 0601 13	