evening set	6106 Feb 06 12:15	2 π 36 23		max. Earth dist.	6112 Mar 06 08:59 6112 Mar 06 02:00		31.19030 AU
		2° H 36'23		behind sun end	6112 Mar 06 08:59	16°) 18'43	
direct	6105 Nov 09 13:28	0°) 41′38	,	behind sun begin	6112 Mar 06 05:03	16°) 18′22	
min. Earth dist.	6105 Aug 21 06:52		29.23291 AU	minimum elong	6112 Mar 06 07:01	16°) 18′33	0°15'30
opposition	6105 Aug 20 21:37	2°) €05'40	0°36'35	conjunction	6112 Mar 06 07:01	16°) (18′33	0°15'30
retrograde	6105 Jun 02 13:47	3° ¥ 28′15					
morning rise	6105 Mar 06 20:23	1°) 34′28		evening set	6112 Feb 19 22:31	15°) (44′00	
max. Earth dist.	6105 Feb 19 01:22		31.23676 AU	direct	6111 Nov 23 11:40	13° ¥ 49′26	
minimum elong	6105 Feb 19 12:01	1° ∺ 00'02		min. Earth dist.	6111 Sep 04 05:33		29.19422 AU
conjunction	6105 Feb 19 12:01	1°) €00'02		opposition	6111 Sep 04 01:19	15°) (13′09	
	(105 F 1 10 12 01	101/00/02	0025126	retrograde	6111 Jun 16 11:36	16°) ₹35'56	0010100
evening set	6105 Feb 04 02:37	0° ∺ 25'31		morning rise	6111 Mar 20 05:28		
avaning set						14°) (41'21	51.17/17/AU
	6105 Jan 23 04:30	0° ∀		max. Earth dist.	6111 Mar 04 16:22		31.19779 AU
direct	6104 Nov 07 04:12	28° ≈ 30'43	-	minimum elong	6111 Mar 04 21:22	14°) (06'51	0°18'28
min. Earth dist.	6104 Aug 18 19:24		29.24118 AU	conjunction	6111 Mar 04 21:21	14°) €06'51	0°18'29
opposition	6104 Aug 18 09:22	29° ≈ 54'45	0°39'29				
	6104 Aug 15 03:59	30° R ≈		evening set	6111 Feb 17 12:41	13° ¥ 32′19	
retrograde	6104 May 31 02:16	1° ∺ 17'15		direct	6110 Nov 20 22:38	11°) € 37'43	
	6104 Mar 21 17:43	0°) €		min. Earth dist.	6110 Sep 01 18:14		29.20114 AU
morning rise	6104 Mar 04 10:52	29°≈23'34		opposition	6110 Sep 01 12:30	13° ¥ 01′29	
			51.24550 AU				0021110
max. Earth dist.	6104 Feb 17 16:05		31.24550 AU	retrograde	6110 Jun 13 23:50	14° \(24'15	
minimum elong	6104 Feb 18 02:34	28° ≈ 49'07	0°38'19	morning rise	6110 Mar 17 19:45	12°) €29'48	
conjunction	6104 Feb 18 02:34	28° ≈ 49′07	0°38'17	max. Earth dist.	6110 Mar 02 05:44	11°) 54'46	31.20419 AU
				minimum elong	6110 Mar 02 11:37	11° 米 55'19	0°21'26
evening set	6104 Feb 02 16:51	28° ≈ 14'36		conjunction	6110 Mar 02 11:37	11° 米 55'19	
direct	6103 Nov 05 15:22	26° ≈ 19'43					
min. Earth dist.	6103 Aug 17 08:18		29.25022 AU	evening set	6110 Feb 15 02:51	11°) (20′47	
opposition	6103 Aug 16 20:59	27°≈43'46	0°42'19	direct	6109 Nov 18 11:03	9°) (26'10	
•	•		0042110				49.40149 AU
retrograde	6103 May 29 17:08	27 ≈12 34 29°≈06'10		min. Earth dist.	6109 Aug 30 05:00		29.20729 AU
morning rise	6103 Mar 03 01:32	27°≈12'34	-	opposition	6109 Aug 29 23:42	10° ¥ 50′00	0°24'27
max. Earth dist.	6103 Feb 15 05:01	26° ≈ 37'00	31.25452 AU	retrograde	6109 Jun 11 12:58	12°) 12'44	
minimum elong	6103 Feb 15 17:04	26° ≈ 38′08	0°40'56	morning rise	6109 Mar 15 10:13	10° ¥ 18′27	
conjunction	6103 Feb 15 17:04	26° ≈ 38′08	0°40'55	max. Earth dist.	6109 Feb 27 19:19		31.21016 AU
				minimum elong	6109 Feb 28 02:01	9°) (43'59	
evening set	0103 Jan 31 U/:1/	∠0 ≈03 36		conjunction			
	6103 Jan 31 07:17	24 ≈08 38 26°≈03'36		conjunction	6109 Feb 28 02:01	9°) 43′59	0°24'21
direct	6102 Nov 03 05:05	24°≈08'38		C			
min. Earth dist.	6102 Aug 14 19:41	25° ≈ 31'54	29.25918 AU	evening set	6109 Feb 12 17:08	9° ∺ 09'27	
opposition	6102 Aug 14 08:30	25° ≈ 32'40	0°45'06	direct	6108 Nov 15 23:29	7° ∺ 14'49	
retrograde	6102 May 27 06:22	26° ≈ 54'59		min. Earth dist.	6108 Aug 27 18:13		29.21307 AU
morning rise	6102 Feb 28 15:57	25°≈01'27		opposition	6108 Aug 27 11:10	8°) 38'43	
max. Earth dist.	6102 Feb 12 19:18		31.26330 AU	retrograde	6108 Jun 09 00:11	10°) €01'26	
•				Č			
minimum elong	6102 Feb 13 07:26	24°≈27'02		morning rise	6108 Mar 13 00:38	8° \(\) 07'17	31.21303710
conjunction	6102 Feb 13 07:26	24° ≈ 27'02	0°43'30	max. Earth dist.	6108 Feb 26 09:36		31.21585 AU
2				minimum elong	6108 Feb 26 16:33	7°) 32'49	
evening set	6102 Jan 28 21:24	23°≈52'30		conjunction	6108 Feb 26 16:32	7°) 32′49	0°27'14
direct	6101 Oct 31 16:04	21° ≈ 57′28					
min. Earth dist.	6101 Aug 12 08:48	23° ≈ 20′38	29.26759 AU	evening set	6108 Feb 11 07:28	6° ¥ 58'18	
opposition	6101 Aug 11 20:18	23° ≈ 21′29	0°47'50	direct	6107 Nov 14 11:34	5°) €03'38	
retrograde	6101 May 24 20:12	24° ≈ 43'45		min. Earth dist.	6107 Aug 26 05:37		29.21899 AU
morning rise	6101 Feb 26 06:20	22°≈50'17		opposition	6107 Aug 25 22:35	6°) €27'35	
max. Earth dist.	6101 Feb 10 09:04		31.27102 AU	retrograde	6107 Jun 07 12:39	7°) 50'16	0020127
•				Č			
minimum elong	6101 Feb 10 21:43	22°≈15'52		morning rise	6107 Mar 11 15:12	5° \ 56'15	31.22201710
conjunction	6101 Feb 10 21:43	22° ≈ 15'52	0°46'01	max. Earth dist.	6107 Feb 23 22:18		31.22201 AU
				minimum elong	6107 Feb 24 06:57	5° ¥ 21'48	0°30'05
evening set	6101 Jan 26 11:29	21° ≈ 41′19		conjunction	6107 Feb 24 06:57	5°) €21'48	0°30'04
direct	6100 Oct 29 04:25	19° ≈ 46'14					
min. Earth dist.	6100 Aug 09 19:41		29.27476 AU	evening set	6107 Feb 08 21:53	4°) 47'17	
opposition	6100 Aug 09 07:53	21° ≈ 10′16	0°50'29	direct	6106 Nov 12 00:45	2° ¥ 52'35	
retrograde	6100 May 22 10:58	22° ≈ 32'29		min. Earth dist.	6106 Aug 23 18:42		29.22545 AU
morning rise	6100 Feb 23 20:47	20°≈39'07		opposition	6106 Aug 23 10:06	4°) €16'36	
	6100 Feb 07 22:45		31.27/31 AU	retrograde			0022127
max. Earth dist.			31.27751 AU	-	6106 Jun 04 23:44	5° H 39'14	
minimum elong	6100 Feb 08 12:00	20°≈04'42		morning rise	6106 Mar 09 05:47	3° ¥ 45′20	31.22007 110
conjunction	6100 Feb 08 12:00	20°≈04'42	0°48'28	max. Earth dist.	6106 Feb 21 12:57		31.22889 AU
Ü				minimum elong	6106 Feb 21 21:38	3°) 10′54	0°32'53
evening set	6100 Jan 24 01:37	19° ≈ 30'10		conjunction	6106 Feb 21 21:38	3°) 10′54	0°32'52

morning rise	6112 Mar 21 15:13	16°) 53′04		conjunction	6118 Mar 19 17:53	29°) ₹30′02	-0°02'49
retrograde	6112 Jun 17 23:27	18°) 47′48		minimum elong	6118 Mar 19 17:53	29°) 30′02	0°02'49
opposition	6112 Sep 05 14:18	17° ∺ 24′58 0°	°14'56	behind sun begin	6118 Mar 19 11:30	29° ∺ 29'28	
min. Earth dist.	6112 Sep 05 18:49	17° ∺ 24'40 29	9.18620 AU	behind sun end	6118 Mar 20 00:16	29° ∺ 30′37	
direct	6112 Nov 24 22:13	16°) 01′19		max. Earth dist.	6118 Mar 19 17:06	29°) (30′00	31.12393 AU
evening set	6113 Feb 21 08:26	17° ¥ 55'51			6118 Apr 01 24:00	$0^{\circ}\mathbf{\Upsilon}$	
•				morning rise	6118 Apr 04 02:25	0° Y 04'40	
conjunction	6113 Mar 08 16:59	18° ¥ 30′23 0°	°12'30	retrograde	6118 Jul 01 21:33	2° Y '00'09	
minimum elong	6113 Mar 08 16:59	18° ¥ 30′23 0°	°12'30	opposition	6118 Sep 19 19:50	0° Ƴ 36'49	-0°04'34
behind sun begin	6113 Mar 08 12:45	18° ¥ 30′00		min. Earth dist.	6118 Sep 19 19:10	0° Ƴ 36'51	29.11849 AU
behind sun end	6113 Mar 08 21:13	18°) 30'46			6118 Oct 13 04:19	30° ₹ ₩	
max. Earth dist.	6113 Mar 08 13:12	18°) € 30'03 31	1 18158 AU	direct	6118 Dec 08 18:38	29°) 13'11	
morning rise	6113 Mar 24 01:05	19°) €04'56			6119 Jan 31 17:16	0°Υ	
retrograde	6113 Jun 20 09:24	20° ¥ 59'48		evening set	6119 Mar 06 19:30	1°Υ07'25	
opposition	6113 Sep 08 03:04		°11'42	evening set	0117 With 00 17.50	1 10/25	
min. Earth dist.	6113 Sep 08 05:04	19°) (36'40 29		conjunction	6119 Mar 22 03:42	1° Y '42'00	0°05'52
direct	6113 Nov 27 10:59	19 X 30 40 29 18° ¥ 13'17	9.17004 AU	minimum elong	6119 Mar 22 03:42 6119 Mar 22 03:42	1° Υ 42'00	
				_	6119 Mar 21 21:34	1° Υ 42'00	0 03 32
evening set	6114 Feb 23 18:30	20°) €07'46		behind sun begin		1° γ 41′27 1° γ 42′33	
	(114)(11 02 50	2001/ 12120 00	00000	behind sun end	6119 Mar 22 09:49		21 11220 411
conjunction	6114 Mar 11 02:50		0°09'29	max. Earth dist.	6119 Mar 22 03:56		31.11328 AU
minimum elong	6114 Mar 11 02:49		°09'30	morning rise	6119 Apr 06 12:18	2° Y 16'39	
behind sun begin	6114 Mar 10 21:27	20°) 41′50		retrograde	6119 Jul 04 09:18	4°Υ12'16	
behind sun end	6114 Mar 11 08:11	20°) 42′49		opposition	6119 Sep 22 08:55	2° Y 48'52	
max. Earth dist.	6114 Mar 10 22:24	20° ¥ 41′56 31	1.17136 AU	min. Earth dist.	6119 Sep 22 08:15		29.10845 AU
morning rise	6114 Mar 26 11:07	21° ¥ 16′53		direct	6119 Dec 11 06:35	1° Y 25'17	
retrograde	6114 Jun 22 21:34	23°) 11′53		evening set	6120 Mar 08 05:12	3° Ƴ 19'28	
opposition	6114 Sep 10 16:05	21°) 48'55 0°	°08'28				
min. Earth dist.	6114 Sep 10 19:16	21°) 48'42 29	9.16579 AU	conjunction	6120 Mar 23 13:29	3° Y 54'04	-0°08'53
direct	6114 Nov 29 20:45	20° ∺ 25′18		minimum elong	6120 Mar 23 13:29	3° Y 54'04	0°08'53
evening set	6115 Feb 26 04:14	22° 升 19′44		behind sun begin	6120 Mar 23 07:58	3° Y 53'34	
				behind sun end	6120 Mar 23 19:01	3° Y 54'34	
conjunction	6115 Mar 13 12:40	22° 升 54'17 0°	°06'28	max. Earth dist.	6120 Mar 23 15:07	3° Y 54'12	31.10380 AU
minimum elong	6115 Mar 13 12:40	22° 升 54'17 0°	0°06'27	morning rise	6120 Apr 07 22:11	4° Y 28'44	
behind sun begin	6115 Mar 13 06:37	22°) 53′45		retrograde	6120 Jul 05 22:18	6° Y ′24'30	
behind sun end	6115 Mar 13 18:42	22° ¥ 54'50		opposition	6120 Sep 23 21:51	5° Y ′01′03	-0°11'05
max. Earth dist.	6115 Mar 13 09:54	22°) 54'04 31	1 15989 AU	min. Earth dist.	6120 Sep 23 19:18		29.09930 AU
morning rise	6115 Mar 28 20:51	23° \ 28'52	1.10,0,110	direct	6120 Dec 12 19:59	3° Υ 37'31	27.07750110
retrograde	6115 Jun 25 07:54	25°) €23'59		evening set	6121 Mar 10 15:11	5° Υ 31'41	
opposition	6115 Sep 13 05:08	24° \ 00'56 0°	°05'13	evening set	0121 With 10 13.11	3 31 41	
min. Earth dist.	6115 Sep 13 07:59	24° H 00'44 29		conjunction	6121 Mar 25 23:21	6° Y 06'18	-0°11'55
direct	6115 Dec 02 08:31	22° H 37'18	7.13300 AC	minimum elong	6121 Mar 25 23:21	6° Υ 06'18	
	6116 Feb 28 14:08	24° X 31'40		_	6121 Mar 25 18:51	6°Υ05'53	0 11 33
evening set	0110 Feb 28 14.08	24 X 3140		behind sun begin		6°Υ06'42	
	(116)4 14 22 22	2501/06114 00	2002125	behind sun end	6121 Mar 26 03:51		31.09496 AU
conjunction	6116 Mar 14 22:22	25° H 06'14 0°		max. Earth dist.	6121 Mar 26 01:13	6°Υ40'59	31.09490 AU
minimum elong	6116 Mar 14 22:23		0°03'26	morning rise	6121 Apr 10 08:16		
behind sun begin	6116 Mar 14 16:02	25°) (05'39		retrograde	6121 Jul 08 10:26	8° Υ 36'54	0014110
behind sun end	6116 Mar 15 04:45	25° ₩ 06'48		opposition	6121 Sep 26 10:48	7°Υ13'24	
max. Earth dist.	6116 Mar 14 19:29	25°\(\frac{1}{25}\)06'00 31	1.147/3 AU	min. Earth dist.	6121 Sep 26 08:13		29.09081 AU
morning rise	6116 Mar 30 06:49	25°) 40'49		direct	6121 Dec 15 06:40	5° Y 49'55	
retrograde	6116 Jun 26 20:59	27° ∺ 36′03		evening set	6122 Mar 13 01:04	7° Ƴ 44'04	
opposition	6116 Sep 14 17:57	26° 升 12′54 0°					
min. Earth dist.	6116 Sep 14 19:29	26° 升 12'48 29	9.14159 AU	conjunction	6122 Mar 28 09:24	8° Y 18'42	
direct	6116 Dec 03 19:30	24° ₩ 49'16		minimum elong	6122 Mar 28 09:24	8° Ƴ 18'42	0°14'55
evening set	6117 Mar 01 23:52	26°) 43′34		behind sun begin	6122 Mar 28 06:48	8° Ƴ 18'28	
				behind sun end	6122 Mar 28 12:01	8° Ƴ 18'56	
conjunction	6117 Mar 17 08:13	27° ∺ 18′08 0°	°00'19	max. Earth dist.	6122 Mar 28 13:00	8° Ƴ 19'02	31.08665 AU
minimum elong	6117 Mar 17 08:12	27° ∺ 18′08 0°	°00'18	morning rise	6122 Apr 12 18:18	8° Y 53'25	
behind sun begin	6117 Mar 17 01:50	27°) 1 7′34		retrograde	6122 Jul 10 20:48	10° Ƴ 49′28	
behind sun end	6117 Mar 17 14:34	27° 升 18'43		opposition	6122 Sep 28 23:54	9° Y 25'57	-0°17'32
max. Earth dist.	6117 Mar 17 06:52	27°) 18′05 31	1.13548 AU	min. Earth dist.	6122 Sep 28 20:01	9° Y 26′13	29.08250 AU
morning rise	6117 Apr 01 16:36	27° ¥ 52'45		direct	6122 Dec 17 19:25	8° Y ′02'31	
desc. node	6117 Apr 22 18:10	28° ∺ 36'50		evening set	6123 Mar 15 11:06	9° Y 56'38	
retrograde	6117 Jun 29 08:41	29°) 48′06		2			
opposition	6117 Sep 17 06:57	28° ∺ 24′50 -0°	°01'19	conjunction	6123 Mar 30 19:18	10° Ƴ 31'17	-0°17'55
min. Earth dist.	6117 Sep 17 08:23	28°) 24'45 29		minimum elong	6123 Mar 30 19:18	10° Y 31'17	
direct	6117 Dec 06 07:21	27° ∺ 01'12		max. Earth dist.	6123 Mar 30 22:36		31.07834 AU
evening set	6118 Mar 04 09:40	28° H 55'28		morning rise	6123 Apr 15 04:31	11° Υ 06'02	
	3.10.10	, , , , , , , , , , , , , , , , , ,				50 02	

natra ara da	6122 Ivl 12 00:25	13° Ƴ 02'15	minimum alana	6120 Amr. 14. 10:41	26° Ƴ 01'31 0°37'57
retrograde	6123 Jul 13 09:25 6123 Oct 01 13:07	13° γ 02 13 11° γ 38'40 -0°20'43	minimum elong max. Earth dist.	6130 Apr 14 19:41	26° Υ 02'16 30.99983 AU
opposition min. Earth dist.	6123 Oct 01 13.07 6123 Oct 01 08:40	11 γ 38 40 -0 20 43 11°γ 38'59 29.07412 A		6130 Apr 15 03:30 6130 Apr 30 06:12	26° γ 36'26
direct	6123 Dec 20 05:40	11 γ 38 39 29.07412 A 10° Υ 15'17	retrograde	6130 Apr 30 00:12 6130 Jul 29 00:44	28° Υ 33'27
evening set	6124 Mar 16 21:10	10 γ 13 17 12° γ '09'23	opposition	6130 Oct 17 09:37	27° Υ '09'15 -0°42'00
evening set	0124 Mai 10 21.10	12 1 09 23	min. Earth dist.	6130 Oct 17 09:37 6130 Oct 17 01:10	27° Υ 09'13 -0 42 00 27° Υ 09'50 28.99437 AU
conjunction	6124 Apr 01 05:35	12° Υ '44'03 -0°20'53	direct	6131 Jan 04 15:44	25° Υ 45'49
minimum elong	6124 Apr 01 05:34	12° Y 44'03 -0 20'54	evening set	6131 Apr 01 20:59	27° Υ 39'35
max. Earth dist.	6124 Apr 01 10:33	12° Υ 44'30 31.06961 A	_	0131 Apr 01 20.39	27 1 39 33
morning rise	6124 Apr 01 10:33	13° Y 18'49	conjunction	6131 Apr 17 06:05	28° Y °14'20 -0°40'37
retrograde	6124 Jul 14 20:30	15° Υ 15'10	minimum elong	6131 Apr 17 06:05	28° Y '14'20 0°40'38
opposition	6124 Oct 03 02:13	13° Υ 51'33 -0°23'53	max. Earth dist.	6131 Apr 17 15:50	28° Υ 15'15 30.98880 AU
min. Earth dist.	6124 Oct 03 02:13 6124 Oct 02 21:31	13° Υ 51'53 29.06501 A		6131 May 02 16:42	28° γ '49'16
direct	6124 Dec 21 17:36	13 γ 31 33 29.00301 A 12° γ 28'12	o morning risc	6131 Jun 07 11:40	0°8
evening set	6124 Dec 21 17:30 6125 Mar 19 07:29	12 γ 28 12 14° Υ 22'16	retrograde	6131 Jul 31 12:03	0° 8 46'24
evening set	0123 Wai 19 07.29	14 22 10	renograde	6131 Sep 26 00:40	30°RΥ
conjunction	6125 Apr 03 15:49	14° Υ '56'56 -0°23'50	opposition	6131 Oct 19 22:44	29° Y ′22'09 -0°44'49
minimum elong	6125 Apr 03 15:49	14° Υ '56'56 0°23'51	min. Earth dist.	6131 Oct 19 12:44	29° Υ 22'50 28.98395 AU
max. Earth dist.	6125 Apr 03 20:24	14° Υ 57'22 31.06008 A		6132 Jan 07 04:56	27° Υ 58'44
morning rise	6125 Apr 19 01:20	15° Υ 31'44	evening set	6132 Apr 03 07:26	29° Υ '52'28
retrograde	6125 Jul 17 09:30	17° Υ 28'14	evening set	6132 Apr 06 16:29	0° 8
opposition	6125 Oct 05 15:27	16° Υ 04'33 -0°27'01		0132 Apr 00 10.27	0 0
min. Earth dist.	6125 Oct 05 13:27	16° Υ 04'56 29.05495 A	U conjunction	6132 Apr 18 16:31	0° 8 27'14 -0°43'13
direct	6125 Dec 24 04:18	10 10430 29.03493 A 14° Υ 41'12	minimum elong	6132 Apr 18 16:31	0° 8 27'14 -0°43'14
evening set	6126 Mar 21 17:42	16° Υ 35'14	max. Earth dist.	6132 Apr 19 02:06	0°828'09 30.97906 AU
evening set	0120 Wai 21 17.42	10 33 14	morning rise	6132 May 04 03:33	1° 8 02'12
conjunction	6126 Apr 06 02:11	17° Y ′09'55 -0°26'44	retrograde	6132 Aug 02 01:18	2° 8 59'27
minimum elong	6126 Apr 06 02:11	17° Υ 09'55 0°26'45	opposition	6132 Oct 21 11:44	1° 8 35'09 -0°47'35
max. Earth dist.	6126 Apr 06 07:52	17° Υ 10'27 31.04929 A	1.1	6132 Oct 21 11:44 6132 Oct 21 01:01	1° 8 35'53 28.97495 AU
morning rise	6126 Apr 21 11:45	17° \gamma 44'44	direct	6133 Jan 08 15:30	0° と 11'46
retrograde	6126 Apr 21 11:45 6126 Jul 19 21:05	17 1 44 44 19° Y 41'22	evening set	6133 Apr 05 17:46	2° 8 05'29
opposition	6126 Oct 08 04:50	19 γ 41 22 18° γ 17'35 -0°30'07	evening set	0133 Apr 03 17.40	2 003 29
min. Earth dist.	6126 Oct 08 04:30 6126 Oct 07 23:26	18° Υ 17'58 29.04359 A	U conjunction	6133 Apr 21 03:10	2° 8 40'17 -0°45'47
direct	6126 Dec 26 15:37	16°Υ54'15	minimum elong	6133 Apr 21 03:10	2°840'17 -0°45'48
evening set	6127 Mar 24 04:02	18° Υ 48'13	max. Earth dist.	6133 Apr 21 14:41	2°841'23 30.97057 AU
evening set	012/ Mai 24 04.02	10 1 40 13	morning rise	6133 May 06 14:17	3° 8 15'17
conjunction	6127 Apr 08 12:35	19° Y ′22'55 -0°29'36	retrograde	6133 Aug 04 12:39	5° 8 12'41
minimum elong	6127 Apr 08 12:35	$19^{\circ}\Upsilon^{22'55} - 0^{\circ}29'38$	opposition	6133 Oct 24 00:53	3°848'20 -0°50'17
max. Earth dist.		19° Υ 23'28 31.03749 A	1.1	6133 Oct 24 00.33 6133 Oct 23 13:30	3°849'07 28.96698 AU
morning rise	6127 Apr 08 18:25	19 γ 23 28 31.03 / 49 A 19° γ 57' 45	direct	6134 Jan 11 03:36	2° 8 25'00
retrograde	6127 Apr 23 22:25 6127 Jul 22 10:29	19 γ 5/43 21° Υ 54'29	evening set	6134 Apr 08 04:12	4° 8 18'43
C	6127 Oct 10 18:03	20° Υ '30'36 -0°33'10	evening set	0134 Apr 08 04.12	4 01643
opposition min. Earth dist.	6127 Oct 10 18:03 6127 Oct 10 11:03	20° Υ 31'05 29.03132 A	II agniumation	6124 Apr. 22 12:20	4° 8 53'32 -0°48'16
	6127 Dec 29 03:02	20 γ3103 29.03132 A 19° γ 07'14		6134 Apr 23 13:38	4° 8 53'32 0°48'17
direct	6127 Dec 29 03:02 6128 Mar 25 14:17	19 γ 0/14 21° γ 01'09	minimum elong max. Earth dist.	6134 Apr 23 13:38	4° 8 54'38 30.96315 AU
evening set	0128 Mai 23 14.17	21 10109		6134 Apr 24 01:12	
agnismation	6129 Amr 00 22:56	21° Υ '35'51 -0°32'26	morning rise retrograde	6134 May 09 01:09	5° と 28'34 7° と 26'07
conjunction	6128 Apr 09 22:56	21° Υ 35'51 0°32'27	opposition	6134 Aug 07 01:43 6134 Oct 26 14:05	6° 8 01'45 -0°52'54
minimum elong max. Earth dist.	6128 Apr 09 22:56 6128 Apr 10 05:19	21° Υ 35'51 0°32'27 21° Υ 36'27 31.02482 A	* *	6134 Oct 26 14:05 6134 Oct 26 01:26	6°802'37 28.95999 AU
morning rise	6128 Apr 25 09:00	21° 73027 31.02482 A 22° Υ $10'43$	direct	6135 Jan 13 13:55	4° \(\beta\) 38'28
retrograde	6128 Jul 23 22:58	24° Υ 07'32	evening set	6135 Apr 10 14:45	6° 8 32'12
opposition	6128 Oct 12 07:21	22° Υ 43'33 -0°36'10	evening set	0133 Apr 10 14.43	0 032 12
min. Earth dist.	6128 Oct 12 07:21 6128 Oct 12 00:46	22° Υ 44'00 29.01853 A	U conjunction	6135 Apr 26 00:27	7° と 07'02 -0°50'41
	6128 Dec 30 15:17	21° Υ 20'09	•	6135 Apr 26 00:27	7°807'02 -0°50'43
direct	6128 Dec 30 15:17 6129 Mar 28 00:31	21° γ 20'09 23° Υ 14'00	minimum elong max. Earth dist.		7°80702 0°3043 7°808'16 30.95634 AU
evening set	0129 Widi 28 00.31	23 14 00		6135 Apr 26 13:24	7° 8 42'06
agnismation	6120 Amr. 12 00:21	23° Y '48'43 -0°35'13	morning rise	6135 May 11 12:09	9° 8 39'47
conjunction	6129 Apr 12 09:21		retrograde	6135 Aug 09 13:34	
minimum elong max. Earth dist.	6129 Apr 12 09:21	23° Υ 48'43 0°35'14 23° Υ 49'26 31.01207 A	opposition U min. Earth dist.	6135 Oct 29 03:20 6135 Oct 28 14:52	8°815'25 -0°55'27 8°816'16 28.95343 AU
	6129 Apr 12 16:58	23°γ'49'26 31.0120/ A 24°γ'23'36	direct	6136 Jan 16 00:16	6°852'11
morning rise	6129 Apr 27 19:33	24°Υ23'36 26°Υ20'30			
retrograde	6129 Jul 26 12:14		evening set	6136 Apr 12 01:26	8° 8 45'55
opposition	6129 Oct 14 20:20	24° Υ 56'25 -0°39'06	II	6126 A 27 11 20	00820147 0052101
min. Earth dist.	6129 Oct 14 12:02	24° Υ 56'59 29.00596 A		6136 Apr 27 11:20	9° 8 20'47 -0°53'01
direct	6130 Jan 02 04:42	23° Υ 32'59	minimum elong	6136 Apr 27 11:20	9° 8 20'47 0°53'03
evening set	6130 Mar 30 10:53	25° Ƴ 26'47	max. Earth dist.	6136 Apr 28 00:33	9° 8 22'02 30.94988 AU
	(120) 14 10 11	2600001121 0025156	morning rise	6136 May 12 23:22	9° 8 55'52
conjunction	6130 Apr 14 19:41	26° Y 01'31 -0°37'56	retrograde	6136 Aug 11 03:42	11° 8 53'43

opposition	6136 Oct 30 16:29	10° 8 29'20 -0°57'55	conjunction	6143 May 13 18:08	25° 8 00'01 -1°07'03
min. Earth dist.	6136 Oct 30 02:33	10° 8 30'17 28.94686	AU minimum elong	6143 May 13 18:08	25° 8 00'01 1°07'05
direct	6137 Jan 17 10:53	9° 8 06'08	max. Earth dist.	6143 May 14 10:11	25° 8 01'32 30.88853 AU
evening set	6137 Apr 14 12:20	10° 8 59'53	morning rise	6143 May 29 08:28	25° 8 35'18
			retrograde	6143 Aug 28 00:07	27° 8 33'40
conjunction	6137 Apr 29 22:22	11° 8 34'46 -0°55'17	opposition	6143 Nov 16 12:40	26° 8 08'49 -1°12'34
minimum elong	6137 Apr 29 22:21	11° 8 34'46 0°55'19	min. Earth dist.	6143 Nov 15 20:01	26° 8 09'58 28.88511 AU
max. Earth dist.	6137 Apr 30 11:52	11° 8 36'03 30.94295	AU direct	6144 Feb 03 00:53	24° 8 45'30
morning rise	6137 May 15 10:40	12° 8 09'54	evening set	6144 Apr 29 17:41	26° 8 39'03
retrograde	6137 Aug 13 17:02	14° 8 07'52			
opposition	6137 Nov 02 05:46	12° 8 43'27 -1°00'18	conjunction	6144 May 15 05:38	27° 8 14'05 -1°08'40
min. Earth dist.	6137 Nov 01 16:32	12° 8 44'21 28.93968	·	6144 May 15 05:37	27° 8 14'05 1°08'42
direct	6138 Jan 19 22:41	11° 8 20'17	max. Earth dist.	6144 May 15 22:58	27°815'44 30.88081 AU
evening set	6138 Apr 16 23:18	13° 8 14'03	morning rise	6144 May 30 20:15	27° 8 49'24
evening set	0136 Apr 10 23.16	13 01403	retrograde	6144 Aug 29 11:45	29° 8 47'50
agnismation	6129 May 02 00:29	13° 8 48'57 -0°57'28	min. Earth dist.	6144 Nov 17 09:10	28° 8 24'04 28.87806 AU
conjunction	6138 May 02 09:38			6144 Nov 18 01:43	
minimum elong	6138 May 02 09:38	13° 8 48'57 0°57'30	opposition		28° 8 22'55 -1°14'15
max. Earth dist.	6138 May 02 23:57	13° 8 50'19 30.93537		6145 Feb 04 12:05	26° 8 59'36
morning rise	6138 May 17 22:09	14° 8 24'06	evening set	6145 May 02 04:51	28° 8 53'08
	6138 Jun 03 17:55	15° 8			
retrograde	6138 Aug 16 07:34	16° 8 22'10	conjunction	6145 May 17 17:05	29° 8 28'11 -1°10'11
	6138 Nov 03 09:45	15° ₹	minimum elong	6145 May 17 17:05	29° 8 28'11 1°10'13
opposition	6138 Nov 04 19:01	14° 8 57'43 -1°02'35	max. Earth dist.	6145 May 18 10:47	29° 8 29'52 30.87446 AU
min. Earth dist.	6138 Nov 04 04:29	14° 8 58'43 28.93158	AU	6145 May 31 18:08	$\Pi^{\circ}0$
direct	6139 Jan 22 11:33	13° 8 34'34	morning rise	6145 Jun 02 08:04	0° Ⅲ 03'31
	6139 Apr 06 06:33	15° 8	retrograde	6145 Sep 01 01:16	2° Ⅲ 02'01
evening set	6139 Apr 19 10:20	15° 8 28'18	opposition	6145 Nov 20 14:35	0° Ⅲ 37′05 -1°15′50
			min. Earth dist.	6145 Nov 19 20:27	0° Д 38'20 28.87235 AU
conjunction	6139 May 04 20:47	16° 8 03'14 -0°59'34		6145 Dec 13 18:17	30° ₹ 8
minimum elong	6139 May 04 20:46	16° 8 03'14 0°59'36	direct	6146 Feb 06 23:16	29° 8 13'46
max. Earth dist.	6139 May 05 10:39	16° 8 04'33 30.92670	AU	6146 Mar 31 18:08	$\Pi^{\circ}\Omega$
morning rise	6139 May 20 09:45	16° 8 38'25	evening set	6146 May 04 16:10	1° 耳 07'17
retrograde	6139 Aug 18 20:50	18° 8 36'35	Č	•	
opposition	6139 Nov 07 08:23	17° 8 12'03 -1°04'47	conjunction	6146 May 20 04:40	1° II 42'22 -1°11'36
min. Earth dist.	6139 Nov 06 18:27	17° 8 13'01 28.92248	·	6146 May 20 04:40	1° П 42'22 1°11'38
direct	6140 Jan 24 22:34	15° 8 48'53	max. Earth dist.	6146 May 20 22:53	1° П 44'06 30.86927 AU
evening set	6140 Apr 20 21:21	17° 8 42'35	morning rise	6146 Jun 04 20:04	2° П 17'45
evening sec	011011p1 20 21.21	17 0 12 33	retrograde	6146 Sep 03 13:41	4°II16'19
conjunction	6140 May 06 08:15	18° 8 17'32 -1°01'35	min. Earth dist.	6146 Nov 22 09:59	2°II52'35 28.86780 AU
minimum elong	6140 May 06 08:14	18° 8 17'32 1°01'36	opposition	6146 Nov 23 03:41	2° Д 51'21 -1°17'17
max. Earth dist.	6140 May 06 23:22	18° 8 18'58 30.91716	**	6147 Feb 09 10:05	1° П 28'04
morning rise	6140 May 21 21:25	18° 8 52'44	evening set	6147 May 07 03:25	3° П 21'35
	•		evening set	014/ May 0/ 03.23	3 Д21 33
retrograde	6140 Aug 20 09:44	20° 8 50'57	. ,.	(147.) (22.1(.22	20Песия 1012155
opposition	6140 Nov 08 21:23	19° 8 26'21 -1°06'53	conjunction	6147 May 22 16:23	3°II.56'42 -1°12'55
min. Earth dist.	6140 Nov 08 06:34	19° 8 27'22 28.91258		6147 May 22 16:23	3°II56'42 1°12'57
direct	6141 Jan 26 12:40	18° 8 03'08	max. Earth dist.	6147 May 23 11:38	3°II58'32 30.86524 AU
evening set	6141 Apr 23 08:30	19° 8 56'48	morning rise	6147 Jun 07 08:06	4° Ⅱ 32'06
	614134 00 10 1	200	retrograde	6147 Sep 06 03:40	6° Ⅱ 30'45
conjunction	6141 May 08 19:29	20° 8 31'47 -1°03'30	opposition	6147 Nov 25 16:35	5° Ⅱ 05'47 -1°18'37
minimum elong	6141 May 08 19:29	20° 8 31'47 1°03'32	min. Earth dist.	6147 Nov 24 21:31	5° Ⅱ 07'06 28.86406 AU
max. Earth dist.	6141 May 09 09:58	20° 8 33'09 30.90716		6148 Feb 11 21:56	3° Ⅱ 42'31
morning rise	6141 May 24 09:10	21° 8 07'00	evening set	6148 May 08 15:03	5° Ⅱ 36′04
retrograde	6141 Aug 23 00:11	23° 8 05'16			
opposition	6141 Nov 11 10:34	21° 8 40'34 -1°08'53	conjunction	6148 May 24 04:13	6° Ⅱ 11'13 -1°14'06
min. Earth dist.	6141 Nov 10 19:30	21° 8 41'36 28.90271	AU minimum elong	6148 May 24 04:13	6° Ⅱ 11'12 1°14'08
direct	6142 Jan 29 00:44	20° 8 17'19	max. Earth dist.	6148 May 24 23:06	6° Ⅱ 13'00 30.86169 AU
evening set	6142 Apr 25 19:23	22° 8 10'56	morning rise	6148 Jun 08 20:27	6° Ⅱ 46'38
			retrograde	6148 Sep 07 17:36	8° Ⅱ 45'23
conjunction	6142 May 11 06:47	22° 8 45'56 -1°05'19	min. Earth dist.	6148 Nov 26 11:09	7° Ⅱ 21'41 28.86072 AU
minimum elong	6142 May 11 06:47	22° 8 45'56 1°05'21	opposition	6148 Nov 27 05:30	7° Ⅱ 20'25 -1°19'50
max. Earth dist.	6142 May 11 22:58	22° 8 47'28 30.89739	AU direct	6149 Feb 13 08:17	5° Ⅱ 57'10
morning rise	6142 May 26 20:38	23° 8 21'11	evening set	6149 May 11 02:40	7° Ⅱ 50'45
retrograde	6142 Aug 25 11:11	25° 8 19'30	-	-	
opposition	6142 Nov 13 23:43	23° 8 54'43 -1°10'47	conjunction	6149 May 26 16:20	8° Ⅲ 25'55 -1°15'11
min. Earth dist.	6142 Nov 13 08:06	23° 8 55'48 28.89331	·	6149 May 26 16:20	8° П 25'55 1°15'13
direct	6143 Jan 31 13:41	22° 8 31'26	max. Earth dist.	6149 May 27 12:25	8° I 27'50 30.85830 AU
evening set	6143 Apr 28 06:34	24° 8 25'00	morning rise	6149 Jun 11 08:47	9° I 01'23
		. 5=5 00		11 00.17	, <u> </u>

retrograde	6149 Sep 10 07:45	11° Ⅲ 00'11	minimum elong	6156 Jun 11 06:38	24° Ⅱ 10'55 1°19'32
opposition	6149 Nov 29 18:27	9° Д 35'14 -1°20'56	max. Earth dist.	6156 Jun 12 03:13	24° I I 10'33
min. Earth dist.	6149 Nov 28 23:22	9° П 36'33 28.85711 AU	morning rise	6156 Jun 27 02:05	24° II 46'35
direct	6150 Feb 15 21:52	9 П 3033 28.83/11 AU 8° П 12'01	•		26° I I45'30
		8 Д1201 10°Д05'38	retrograde	6156 Sep 26 03:35 6156 Dec 15 11:46	25° I I20'18 -1°25'06
evening set	6150 May 13 14:28	10-Щ05/38	opposition		
	(150) (20 04 10	1001140140 1017100	min. Earth dist.	6156 Dec 14 15:53	25° Ⅲ 21'41 28.81741 AU
conjunction	6150 May 29 04:19	10° I I40'49 -1°16'09	direct	6157 Mar 03 08:31	23° I I56'51
minimum elong	6150 May 29 04:18	10° I 40'49 1°16'11	evening set	6157 May 29 02:21	25° Ⅱ 50′25
max. Earth dist.	6150 May 29 23:24	10° I 42'38 30.85440 AU			
morning rise	6150 Jun 13 21:20	11° I 16'19	conjunction	6157 Jun 13 19:04	26° Ⅲ 25'48 -1°19'38
retrograde	6150 Sep 12 23:11	13° Ⅱ 15'12	minimum elong	6157 Jun 13 19:04	26° II 25'48 1°19'40
opposition	6150 Dec 02 07:33	11° I I50'14 -1°21'54	max. Earth dist.	6157 Jun 14 15:16	26° I 27'43 30.81479 AU
min. Earth dist.	6150 Dec 01 12:45	11° I 51'32 28.85289 AU	morning rise	6157 Jun 29 15:04	27° I 101'29
direct	6151 Feb 18 09:40	10° Ⅱ 27′01	retrograde	6157 Sep 28 16:46	29° Ⅱ 00′25
evening set	6151 May 16 02:22	12° Ⅱ 20′38	min. Earth dist.	6157 Dec 17 05:05	27° I I36'31 28.81416 AU
			opposition	6157 Dec 18 00:22	27° 耳 35′11 -1°25′11
conjunction	6151 May 31 16:45	12° I 55′52 -1°17′00	direct	6158 Mar 05 18:50	26° Ⅱ 11'42
minimum elong	6151 May 31 16:45	12° Ⅲ 55'52 1°17'02	evening set	6158 May 31 14:14	28° Ⅱ 05'17
max. Earth dist.	6151 Jun 01 12:48	12° Ⅲ 57'46 30.84957 AU			
morning rise	6151 Jun 16 10:02	13° Ⅲ 31′24	conjunction	6158 Jun 16 07:35	28° Ⅱ 40'41 -1°19'39
retrograde	6151 Sep 15 11:23	15° Ⅲ 30′18	minimum elong	6158 Jun 16 07:35	28° Ⅱ 40'41 1°19'41
opposition	6151 Dec 04 20:26	14° Ⅲ 05'19 -1°22'45	max. Earth dist.	6158 Jun 17 05:07	28° Ⅱ 42'44 30.81226 AU
min. Earth dist.	6151 Dec 04 01:45	14° Ⅱ 06'37 28.84748 AU	morning rise	6158 Jul 02 03:53	29° Ⅱ 16′25
direct	6152 Feb 20 22:35	12° Ⅲ 42′06	-	6158 Jul 22 22:22	0°ತಾ
evening set	6152 May 17 14:24	14° Ⅲ 35'43	retrograde	6158 Oct 01 06:25	1° © 15'20
	•		•	6158 Dec 14 14:26	30°RⅡ
conjunction	6152 Jun 02 05:06	15° Ⅱ 10'58 -1°17'44	opposition	6158 Dec 20 12:47	29° Ⅱ 50′05 -1°25′08
minimum elong	6152 Jun 02 05:06	15° Ⅱ 10'58 1°17'47	min. Earth dist.	6158 Dec 19 16:35	29° Д 51'30 28.81226 AU
max. Earth dist.	6152 Jun 03 00:10	15° Ⅱ 12'47 30.84374 AU	direct	6159 Mar 08 08:13	28° Ⅱ 26'37
morning rise	6152 Jun 17 22:57	15° Ⅱ 46'32		6159 May 24 18:36	0°95
retrograde	6152 Sep 17 01:41	17° Ⅱ 45′27	evening set	6159 Jun 03 02:33	0° © 20'12
opposition	6152 Dec 06 09:19	16° Ⅱ 20'26 -1°23'29	evening see	010) 0411 05 02.55	0 02012
min. Earth dist.	6152 Dec 05 14:22	16° Д 20'26	conjunction	6159 Jun 18 20:11	0°\$55'39 -1°19'33
direct	6153 Feb 22 10:34	14° I I57'10	minimum elong	6159 Jun 18 20:11	0°955'39 1°19'35
evening set	6153 May 20 02:17	14 II 57 10 16° II 50'46	max. Earth dist.	6159 Jun 19 16:50	0°957'36 30.81106 AU
evening set	0133 May 20 02.17	10 Д3040	morning rise	6159 Jul 04 17:07	1°931'23
conjunction	6153 Jun 04 17:25	17° Ⅲ 26'03 -1°18'21	retrograde	6159 Oct 03 21:10	3°930'19
minimum elong	6153 Jun 04 17:25	17° Ш 26'03 1°18'24	min. Earth dist.	6159 Dec 22 05:10	2°906'28 28.81171 AU
_		17 П 2603 1 1824 17° П 27'56 30.83704 AU		6159 Dec 22 03:10 6159 Dec 23 01:07	
max. Earth dist.	6153 Jun 05 13:15		opposition direct		2°505'05 -1°24'57
morning rise	6153 Jun 20 11:35	18° Ⅱ 01'38		6160 Mar 09 19:19	0°5541'35
retrograde	6153 Sep 19 13:54	20°II00'35	evening set	6160 Jun 04 14:48	2° © 35'13
opposition	6153 Dec 08 22:09	18° II 35'30 -1°24'04		(1(0 I 20 00 02	20510141 1010110
min. Earth dist.	6153 Dec 08 03:50	18° I I36'46 28.83438 AU	conjunction	6160 Jun 20 09:02	3°510'41 -1°19'19
direct	6154 Feb 24 22:33	17° Ⅲ 12'11	minimum elong	6160 Jun 20 09:02	3°S10'41 1°19'22
evening set	6154 May 22 14:13	19° Ⅲ 05'46	max. Earth dist.	6160 Jun 21 06:53	3°S12'45 30.81097 AU
			morning rise	6160 Jul 06 06:15	3°546'28
conjunction	6154 Jun 07 05:46	19° Ⅱ 41'04 -1°18'51	retrograde	6160 Oct 05 09:58	5° © 45'23
minimum elong	6154 Jun 07 05:46	19° Ⅱ 41'04 1°18'54	opposition	6160 Dec 24 13:29	4°520'10 -1°24'39
max. Earth dist.	6154 Jun 08 01:26	19° Ⅱ 42'56 30.83035 AU	min. Earth dist.	6160 Dec 23 17:29	4°521'34 28.81195 AU
morning rise	6154 Jun 23 00:24	20° Ⅱ 16'41	direct	6161 Mar 12 07:39	2° 9 56'41
retrograde	6154 Sep 22 03:05	22° I 15'37	evening set	6161 Jun 07 03:11	4° 9 50'21
opposition	6154 Dec 11 10:47	20° I 50'29 -1°24'33			
min. Earth dist.	6154 Dec 10 15:24	20° I 51'50 28.82788 AU	conjunction	6161 Jun 22 21:44	5° 5 25'50 -1°18'58
direct	6155 Feb 27 10:22	19° Ⅱ 27'07	minimum elong	6161 Jun 22 21:44	5° © 25'50 1°19'00
evening set	6155 May 25 02:13	21° Ⅱ 20'41	max. Earth dist.	6161 Jun 23 18:41	5°527'49 30.81156 AU
		_	morning rise	6161 Jul 08 19:30	6° ୭ 01'39
conjunction	6155 Jun 09 18:08	21° I 56′01 -1°19′14	retrograde	6161 Oct 08 01:37	8° 5 00'33
minimum elong	6155 Jun 09 18:08	21° II 56'01 1°19'16	min. Earth dist.	6161 Dec 26 05:41	6°≌36'47 28.81269 AU
max. Earth dist.	6155 Jun 10 14:00	21° I 57′54 30.82406 AU	opposition	6161 Dec 27 01:51	6°\$35'22 -1°24'12
morning rise	6155 Jun 25 13:15	22° Ⅱ 31'40	direct	6162 Mar 14 20:05	5° © 11'54
retrograde	6155 Sep 24 14:25	24° Ⅱ 30′36	evening set	6162 Jun 09 15:44	7° 5 05'35
opposition	6155 Dec 13 23:28	23° I 105′25 -1°24′53			
min. Earth dist.	6155 Dec 13 04:49	23° Д 06'43 28.82208 AU	conjunction	6162 Jun 25 10:48	7° 5 41'07 -1°18'30
direct	6156 Feb 29 21:16	21° Ⅱ 42'00	minimum elong	6162 Jun 25 10:48	7° 5 41'07 1°18'32
evening set	6156 May 26 14:12	23° Ⅱ 35'34	max. Earth dist.	6162 Jun 26 08:21	7° 5 43'09 30.81218 AU
			morning rise	6162 Jul 11 08:55	8°916'57
conjunction	6156 Jun 11 06:39	24° Ⅱ 10'55 -1°19'30	retrograde	6162 Oct 10 14:28	10° © 15'51

conjunction

minimum elong

6169 Jul 11 07:14

23°526'50 1°11'57

6175 Aug 10 19:32

morning rise

7°**Ω**32'42

retrograde	6175 Nov 09 16:15	9° Ω 30'46	evening set	6182 Jul 25 12:27	22° Ω 05'11
min. Earth dist.	6176 Jan 27 08:43	8°Ω06'57 28.839	•	0162 Jul 23 12.27	22 8603 11
opposition	6176 Jan 28 00:07	8°Ω05'52 -1°05'1		6182 Aug 10 16:16	22° Ω 41'08 -0°46'16
direct	6176 Apr 14 15:53	6°Ω42'03	,	•	22°Ω41'08 -0 46'18
			minimum elong	6182 Aug 10 16:16	
evening set	6176 Jul 11 04:22	8° Ω 36′03	max. Earth dist.	6182 Aug 11 05:44	22° Ω 42'23 30.86753 AU
	(15(X 1	00.011155 100010	morning rise	6182 Aug 26 21:53	23°Ω17'15
conjunction	6176 Jul 27 05:55	9° Ω 11'55 -1°00'0	Ü	6182 Nov 25 08:51	25°Ω14'26
minimum elong	6176 Jul 27 05:55	9° Ω 11'55 1°00'0	**	6183 Feb 12 07:07	23°Ω49'37 -0°48'06
max. Earth dist.	6176 Jul 27 23:23	9° Ω 13'33 30.841		6183 Feb 11 19:38	23° Ω 50′26 28.87110 AU
morning rise	6176 Aug 12 09:39	9° Ω 48'01	direct	6183 May 01 04:25	22° Ω 25'25
retrograde	6176 Nov 11 04:20	11° Ω 46'00	evening set	6183 Jul 28 01:49	24° Ω 19′28
opposition	6177 Jan 29 11:39	10° Ω 21'08 -1°03'0			
min. Earth dist.	6177 Jan 28 20:16	10° Ω 22'13 28.844	3	6183 Aug 13 06:02	24°\$\Omega 55'26 -0°43'43
direct	6177 Apr 17 04:10	8° Ω 57'17	minimum elong	6183 Aug 13 06:02	24° Ω 55'26 0°43'44
evening set	6177 Jul 13 17:43	10° Ω 51'18	max. Earth dist.	6183 Aug 13 19:06	24° Ω 56'39 30.87443 AU
			morning rise	6183 Aug 29 11:51	25° Ω 31'33
conjunction	6177 Jul 29 19:31	11° Ω 27'12 -0°57'5	f6 retrograde	6183 Nov 27 22:05	27° Ω 28'36
minimum elong	6177 Jul 29 19:32	11° Ω 27'12 0°57'5	opposition	6184 Feb 14 17:56	26° Ω 03'50 -0°45'20
max. Earth dist.	6177 Jul 30 11:10	11° Ω 28'40 30.845	98 AU min. Earth dist.	6184 Feb 14 05:49	26° Ω 04'42 28.87857 AU
morning rise	6177 Aug 14 23:46	12° Ω 03'18	direct	6184 May 02 17:00	24° Ω 39'37
retrograde	6177 Nov 13 17:26	14° Ω 01'11	evening set	6184 Jul 29 15:16	26° Ω 33'42
opposition	6178 Jan 31 23:14	12° Ω 36′20 -1°00′4	7		
min. Earth dist.	6178 Jan 31 08:55	12° Ω 37′20 28.848	45 AU conjunction	6184 Aug 14 19:42	27° Ω 09'40 -0°41'06
direct	6178 Apr 19 14:16	11° Ω 12′25	minimum elong	6184 Aug 14 19:42	27° Ω 09'40 0°41'08
evening set	6178 Jul 16 07:03	13° Ω 06′27	max. Earth dist.	6184 Aug 15 07:54	27° Ω 10'49 30.88256 AU
			morning rise	6184 Aug 31 01:48	27° Ω 45'48
conjunction	6178 Aug 01 09:27	13° Ω 42'21 -0°55'4	· ·	6184 Nov 29 09:27	29° Ω 42'45
minimum elong	6178 Aug 01 09:27	13° Ω 42'21 0°55'4	_	6185 Feb 16 05:02	28° Ω 18'03 -0°42'30
max. Earth dist.	6178 Aug 02 01:27	13° Ω 43'51 30.849	11	6185 Feb 15 18:11	28° Ω 18'49 28.88737 AU
morning rise	6178 Aug 17 13:52	14° Ω 18′28	direct	6185 May 05 03:14	26° Ω 53'49
morning rise	6178 Sep 06 12:11	15° Ω	evening set	6185 Aug 01 04:27	28° Ω 47'57
retrograde	6178 Nov 16 05:00	16° Ω 16'12	evening sec	0103 Hug 01 01.27	20 0017 37
retrograde	6179 Jan 29 07:53	15°R Ω	conjunction	6185 Aug 17 09:21	29° Ω 23'56 -0°38'25
opposition	6179 Feb 03 10:30	14° Ω 51'22 -0°58'2	·	6185 Aug 17 09:21	29°Ω23'56 0°38'26
min. Earth dist.	6179 Feb 02 20:46	$14^{\circ}\Omega51'22 - 0'38'2$ $14^{\circ}\Omega52'20 - 28.852$	C	6185 Aug 17 09:21 6185 Aug 17 21:56	29°Ω25'06 30.89198 AU
direct	6179 Apr 22 03:01	$13^{\circ}\Omega 27'24$	morning rise	6185 Sep 02 15:33	0° M 00'04
direct	6179 Apr 22 03:01 6179 Jul 08 20:18	13 8ℓ 27 24 15° Ω	morning rise	6185 Sep 02 13:53 6185 Sep 02 14:53	0°M)
		15°Ω21'25		6185 Dec 01 21:36	•
evening set	6179 Jul 18 20:32	13-8621723	retrograde		1° Mp 56'54
. ,.	(170 A 02 22 12	1.50 0.57120 00.5212	opposition	6186 Feb 18 15:55	0° Mp 32'17 -0°39'36
conjunction	6179 Aug 03 23:12	15° Ω 57'20 -0°53'3		6186 Feb 18 04:56	0° Mg 33'04 28.89708 AU
minimum elong	6179 Aug 03 23:13	15° Ω 57'20 0°53'3		6186 Mar 10 04:37	30°RΩ
max. Earth dist.	6179 Aug 04 13:27	15° Ω 58'40 30.853	60 AU direct	6186 May 07 15:05	29° Ω 08'05
morning rise	6179 Aug 20 04:06	16° Ω 33'27		6186 Jul 03 07:14	0° m)
retrograde	6179 Nov 18 19:02	18° Ω 31'03	evening set	6186 Aug 03 18:05	1° Mp 02'16
opposition	6180 Feb 05 21:46	17° Ω 06'13 -0°55'5			
min. Earth dist.	6180 Feb 05 08:21	17° Ω 07'09 28.855	,	6186 Aug 19 23:07	1° m/38'16 -0°35'40
direct	6180 Apr 23 15:33	15° Ω 42'10	minimum elong	6186 Aug 19 23:07	1° m/38'16 0°35'42
evening set	6180 Jul 20 09:49	17° Ω 36'12	max. Earth dist.	6186 Aug 20 10:02	1° Mp 39'17 30.90200 AU
			morning rise	6186 Sep 05 05:40	2° m 14'24
conjunction	6180 Aug 05 12:57	18° Ω 12'07 -0°51'1	· ·	6186 Dec 04 10:11	4° Mp 11′09
minimum elong	6180 Aug 05 12:57	18° Ω 12'07 0°51'1	11	6187 Feb 21 02:46	2° TQ 46'38 -0°36'38
max. Earth dist.	6180 Aug 06 03:37	18° Ω 13'29 30.857	40 AU min. Earth dist.	6187 Feb 20 16:57	2° Mp 47'20 28.90723 AU
morning rise	6180 Aug 21 17:57	18° Ω 48'14	direct	6187 May 10 00:31	1° Mp 22'26
retrograde	6180 Nov 20 06:14	20° Ω 45'42	evening set	6187 Aug 06 07:43	3° Mp 16'42
opposition	6181 Feb 07 08:58	19° Ω 20'51 -0°53'2	25		
min. Earth dist.	6181 Feb 06 20:37	19° Ω 21'43 28.859	87 AU conjunction	6187 Aug 22 13:10	3° m $52'42 -0^{\circ}32'53$
direct	6181 Apr 26 03:54	17° Ω 56'45	minimum elong	6187 Aug 22 13:10	3° Mp 52'42 0°32'53
evening set	6181 Jul 22 23:09	19° Ω 50'47	max. Earth dist.	6187 Aug 23 00:15	3° M 53'43 30.91200 AU
			morning rise	6187 Sep 07 19:41	4° ₥ 28'50
conjunction	6181 Aug 08 02:36	20° Ω 26'43 -0°48'4	5 retrograde	6187 Dec 06 21:19	6° Mp 25′29
minimum elong	6181 Aug 08 02:36	20° Ω 26'43 0°48'4	6 opposition	6188 Feb 23 13:40	5° m 01'04 -0°33'37
max. Earth dist.	6181 Aug 08 16:13	20° Ω 27'59 30.861	99 AU min. Earth dist.	6188 Feb 23 04:38	5°Mp01'42 28.91688 AU
morning rise	6181 Aug 24 07:59	21° Ω 02'50	direct	6188 May 11 12:44	3° m/36'52
retrograde	6181 Nov 22 20:27	23° Ω 00′09	evening set	6188 Aug 07 21:26	5° m/31'12
opposition	6182 Feb 09 19:59	21° Ω 35'19 -0°50'4	8		
min. Earth dist.	6182 Feb 09 07:12	21° Ω 36'13 28.864	94 AU conjunction	6188 Aug 24 02:57	6° Mp 07'12 -0°30'02
direct	6182 Apr 28 16:28	20° Ω 11′08	minimum elong	6188 Aug 24 02:57	6° m 07'12 0°30'03
			•		

E 41 E 4	(100 A 24 11 52	60 m 00102	20.02120.411		(105 M 10 16 16	200 m- 2015 1	0011127
max. Earth dist.	6188 Aug 24 11:53	-	30.92130 AU	opposition	6195 Mar 10 16:16	20° m/39'51	
morning rise	6188 Sep 09 09:45	6° Mp 43'20		min. Earth dist.	6195 Mar 10 12:24		28.96643 AU
retrograde	6188 Dec 08 10:38	8° m 39'53		direct	6195 May 28 02:17	19° Mp 15'20	
opposition	6189 Feb 25 00:33	7° m 15'32	-0°30'33	evening set	6195 Aug 24 20:38	21°M/09'49	
min. Earth dist.	6189 Feb 24 16:08	7° m) 16′08	28.92572 AU				
direct	6189 May 14 00:25	5° m 51'19		conjunction	6195 Sep 10 03:26	21°M/45'50	-0°09'14
evening set	6189 Aug 10 11:07	7° m 45'42		minimum elong	6195 Sep 10 03:26	21°Mp45'50	0°09'14
•	•	-		behind sun begin	6195 Sep 09 21:54	21° Mp 45'21	
conjunction	6189 Aug 26 17:00	8° m/21'43	-0°27'09	behind sun end	6195 Sep 10 08:57	21° m 46'20	
minimum elong	6189 Aug 26 17:00	8° mp 21'43		max. Earth dist.	6195 Sep 10 06:30		30.97052 AU
max. Earth dist.	6189 Aug 27 01:51	-	30.92954 AU	morning rise	6195 Sep 26 10:38	22° m) 21'53	30.77032 AO
	=	~	30.92934 AU	•	•		
morning rise	6189 Sep 11 23:46	8° m 57'50		retrograde	6195 Dec 24 22:38	24° m 17'25	0000110
retrograde	6189 Dec 10 21:45	10° m ,54′16		opposition	6196 Mar 12 02:44	22° m 53'18	
opposition	6190 Feb 27 11:26	9° m , 29'58	-0°27'26	min. Earth dist.	6196 Mar 11 23:41		28.97501 AU
min. Earth dist.	6190 Feb 27 04:34	9° m ,30′27	28.93339 AU	direct	6196 May 29 12:00	21° m 28'45	
direct	6190 May 16 12:12	8° m 05'43		evening set	6196 Aug 26 09:51	23°M 23'16	
evening set	6190 Aug 13 00:50	10° m/00'08					
				conjunction	6196 Sep 11 16:54	23° m 59'16	-0°06'12
conjunction	6190 Aug 29 06:54	10° m 36'09	-0°24'13	minimum elong	6196 Sep 11 16:54	23° m 59'16	0°06'13
minimum elong	6190 Aug 29 06:54	10° m 36'09		behind sun begin	6196 Sep 11 10:40	23° m 58'43	
max. Earth dist.	6190 Aug 29 13:59	~	30.93684 AU	behind sun end	6196 Sep 11 23:08	23° m 59'49	
	•		30.73004 AC	max. Earth dist.	•	-	20 07072 AII
morning rise	6190 Sep 14 13:54	11° Mp 12'16			6196 Sep 11 20:33		30.97972 AU
retrograde	6190 Dec 13 11:42	13° m 08'33		morning rise	6196 Sep 27 23:53	24° m/35'18	
opposition	6191 Mar 01 22:09	11° m)44'18		retrograde	6196 Dec 26 08:05	26° Mp 30′42	
min. Earth dist.	6191 Mar 01 15:23	11° m)44'46	28.94019 AU	opposition	6197 Mar 14 13:09	25° Mp 06′39	-0°04'56
direct	6191 May 19 01:07	10° m/20'00		min. Earth dist.	6197 Mar 14 10:25	25°M 06'50	28.98482 AU
evening set	6191 Aug 15 14:33	12° Mp 14'26		direct	6197 Jun 01 00:14	23° Mp 42'05	
				evening set	6197 Aug 28 23:21	25° M 36'38	
conjunction	6191 Aug 31 20:50	12° m 50'27	-0°21'16				
minimum elong	6191 Aug 31 20:50	12° m 50'27	0°21'16	conjunction	6197 Sep 14 06:19	26° m 12'38	-0°03'09
max. Earth dist.	6191 Sep 01 03:17		30.94323 AU	minimum elong	6197 Sep 14 06:18	26° m 12'38	
morning rise	6191 Sep 17 03:49	13° m) 26'33	50.5 .525 .10	behind sun begin	6197 Sep 13 23:44	26° m 12'03	0 05 07
retrograde	6191 Dec 15 23:41	15° Mp 22'42		behind sun end	6197 Sep 14 12:52	26° mg 13'13	
•		-	0021107		•		20 00020 411
opposition	6192 Mar 03 08:50	13° m 58'28		max. Earth dist.	6197 Sep 14 08:16		30.99028 AU
min. Earth dist.	6192 Mar 03 03:50		28.94637 AU	morning rise	6197 Sep 30 13:25	26° Mp 48′39	
direct	6192 May 20 13:39	12° Mp 34'07		retrograde	6197 Dec 28 20:01	28° m 43'56	
evening set	6192 Aug 17 04:08	14° Mp 28'34		opposition	6198 Mar 16 23:24	27° m 19'57	-0°01'39
				min. Earth dist.	6198 Mar 16 20:53	27° m 20'08	28.99600 AU
conjunction	6192 Sep 02 10:37	15° m 04'35	-0°18'17	direct	6198 Jun 03 10:31	25° m 55'23	
minimum elong	6192 Sep 02 10:37	15° m 04'35	0°18'18	evening set	6198 Aug 31 12:45	27° m 50'00	
max. Earth dist.	6192 Sep 02 16:12		30.94942 AU	Č	C		
morning rise	6192 Sep 18 17:41	15° mp 40'40		conjunction	6198 Sep 16 19:54	28° m 25'59	-0°00'01
retrograde	6192 Dec 17 12:25	17° m) 36'40		minimum elong	6198 Sep 16 19:55	28° m 25'59	
opposition	6193 Mar 05 19:22	16° Mp 12'27	0°17'55	behind sun begin	6198 Sep 16 15:19	28° m/25'36	0 00 01
• •	6193 Mar 05 14:02	-		behind sun end	6198 Sep 17 00:31	28° m) 26'22	
min. Earth dist.		-	28.95253 AU		•		21 00106 411
direct	6193 May 23 03:01	14° m/48'03		max. Earth dist.	6198 Sep 16 22:15		31.00186 AU
evening set	6193 Aug 19 17:35	16° Mp 42'30		asc. node	6198 Sep 18 13:30	28° m/29'51	
_				morning rise	6198 Oct 03 02:49	29° m 01'59	
conjunction	6193 Sep 05 00:09	17° m y 18'31			6198 Nov 01 04:41	0。 ಹ	
minimum elong	6193 Sep 05 00:09	17° m) 18'31	0°15'17	retrograde	6198 Dec 31 06:28	0° ≙ 57'09	
behind sun begin	6193 Sep 04 22:28	17° m) 18'22			6199 Mar 03 08:03	30°R.₩	
behind sun end	6193 Sep 05 01:50	17° m) 18'40		opposition	6199 Mar 19 09:48	29° M 33'16	0°01'37
max. Earth dist.	6193 Sep 05 04:41	17° Mp 18'56	30.95569 AU	min. Earth dist.	6199 Mar 19 08:39	29° m 33'21	29.00780 AU
morning rise	6193 Sep 21 07:19	17° m 54'36		direct	6199 Jun 05 21:07	28° m 08'43	
retrograde	6193 Dec 19 23:29	19° m 50'26			6199 Sep 01 12:42	0∘ ⊽	
opposition	6194 Mar 08 05:59	18° Mp 26'14	0.01414.2	evening set	6199 Sep 03 02:20	0° ₽ 03'23	
• •		-		evening set	5177 Sep 05 02.20	0 ==03 23	
min. Earth dist.	6194 Mar 08 02:11	-	28.95911 AU		(100 0 10 00 21	00.00000	0002107
direct	6194 May 25 13:49	17° mp 01'47		conjunction	6199 Sep 19 09:24	0° £ 39'21	0°03'07
evening set	6194 Aug 22 07:03	18° m 56'15		minimum elong	6199 Sep 19 09:24	0° £ 39'21	0°03'08
				behind sun begin	6199 Sep 19 02:50	0° ჲ 38'46	
conjunction	6194 Sep 07 13:54	19° m 32'16	-0°12'16	behind sun end	6199 Sep 19 15:58	0° £ 39'56	
minimum elong	6194 Sep 07 13:54	19° m 32'16	0°12'17	max. Earth dist.	6199 Sep 19 10:09	0° ჲ 39'23	31.01384 AU
behind sun begin	6194 Sep 07 09:37	19° m 31'53		morning rise	6199 Oct 05 16:18	1° ≏ 15′20	
behind sun end	6194 Sep 07 18:10	19° m 32'39		retrograde	6200 Jan 02 19:12	3° ₽ 10′24	
max. Earth dist.	6194 Sep 07 18:30	-	30.96265 AU	opposition	6200 Mar 21 20:03	1° ≏ 46'36	0°04'54
morning rise	6194 Sep 23 20:59	20° m 08'20		min. Earth dist.	6200 Mar 21 18:53		29.01973 AU
retrograde	6194 Dec 22 11:31	22° My 04'00		direct	6200 Jun 08 09:40	0° £ 22'03	
	3.5. 200 22 11.51	,, 0100				22 03	

evening set	6200 Sep 05 15:53	2° ♀ 16'47	direct	6206 Jun 22 10:22	13° ≏ 39'59
-	•		evening set	6206 Sep 20 00:26	15° ≙ 34'51
conjunction	6200 Sep 21 22:59	2° £ 52'45 0°06'10	1		
minimum elong	6200 Sep 21 22:59	2° £ 52'45 0°06'11	conjunction	6206 Oct 06 07:04	16° ≏ 10'43 0°24'04
behind sun begin	6200 Sep 21 16:44	2° ♀ 52'12	minimum elong	6206 Oct 06 07:03	16° ≙ 10'43 0°24'05
behind sun end	6200 Sep 22 05:14	2° ჲ 53'18	max. Earth dist.	6206 Oct 06 00:51	16° ≙ 10'09 31.07874 AU
max. Earth dist.	6200 Sep 21 23:14	2° £ 52'46 31.0254	4 AU morning rise	6206 Oct 22 12:44	16° ≏ 46'30
morning rise	6200 Oct 08 05:39	3° ჲ 28'42	retrograde	6207 Jan 19 01:20	18° ≏ 40'37
retrograde	6201 Jan 05 06:25	5° £ 23'40	opposition	6207 Apr 06 19:50	17° 2 17'08 0°27'15
opposition	6201 Mar 24 06:31	3° £ 59'56 0°08'10	min. Earth dist.	6207 Apr 07 00:33	17° 2 16'48 29.08301 AU
min. Earth dist.	6201 Mar 24 07:10	3° £ 59'53 29.0310	4 AU direct	6207 Jun 24 20:45	15° ≏ 52'21
direct	6201 Jun 10 21:39	2° £ 35′23	evening set	6207 Sep 22 13:32	17° ≏ 47'15
evening set	6201 Sep 08 05:19	4° ჲ 30'09			
			conjunction	6207 Oct 08 20:07	18° º 23'06 0°26'57
conjunction	6201 Sep 24 12:26	5° £ 06'06 0°09'12	0	6207 Oct 08 20:07	18° £ 23'06 0°26'58
minimum elong	6201 Sep 24 12:26	5° ഫ 06'06 0°09'13		6207 Oct 08 14:24	18° ≏ 22'34 31.08726 AU
behind sun begin	6201 Sep 24 06:54	5° ഫ 05'37	morning rise	6207 Oct 25 01:20	18° ≏ 58'51
behind sun end	6201 Sep 24 17:58	5° ഫ 06'36	retrograde	6208 Jan 21 10:32	20° ჲ 52'51
max. Earth dist.	6201 Sep 24 11:27	5° ഫ 06'01 31.0363	4 AU opposition	6208 Apr 08 05:58	19° ≏ 29'25 0°30'18
morning rise	6201 Oct 10 19:02	5° - 42′02	min. Earth dist.	6208 Apr 08 11:51	19° ≏ 29'00 29.09202 AU
retrograde	6202 Jan 07 18:58	7° ≏ 36'52	direct	6208 Jun 26 07:12	18° ≏ 04'36
opposition	6202 Mar 26 16:51	6° £ 13'12 0°11'25	evening set	6208 Sep 24 02:40	19° ♀ 59'32
min. Earth dist.	6202 Mar 26 17:27	6° £ 13'09 29.0413	3 AU		
direct	6202 Jun 13 11:03	4° ≏ 48'37	conjunction	6208 Oct 10 08:59	20° △ 35'21 0°29'47
evening set	6202 Sep 10 18:59	6° ≏ 43'26	minimum elong	6208 Oct 10 08:58	20° △ 35'21 0°29'48
			max. Earth dist.	6208 Oct 10 01:59	20° △ 34'42 31.09691 AU
conjunction	6202 Sep 27 02:00	7° ≏ 19'22 0°12'14	· ·	6208 Oct 26 14:03	21° ≏ 11'05
minimum elong	6202 Sep 27 01:59	7° ≏ 19'22 0°12'14	· ·	6209 Jan 22 22:05	23° ჲ 04'58
behind sun begin	6202 Sep 26 21:40	7° ≏ 18'59	opposition	6209 Apr 10 15:59	21° º 41'36 0°33'19
behind sun end	6202 Sep 27 06:18	7° ≏ 19'45	min. Earth dist.	6209 Apr 10 21:20	21° ≏ 41'13 29.10233 AU
max. Earth dist.	6202 Sep 26 23:34	7° £ 19'09 31.0460		6209 Jun 28 19:28	20° £ 16'47
morning rise	6202 Oct 13 08:25	7° £ 55'16	evening set	6209 Sep 26 15:37	22° £ 11'46
retrograde	6203 Jan 10 06:24	9° ≏ 49'58			
opposition	6203 Mar 29 03:10	8° £ 26'21 0°14'38	J	6209 Oct 12 21:51	22° £ 47'34 0°32'35
min. Earth dist.	6203 Mar 29 05:37	8° £ 26'10 29.0505	0	6209 Oct 12 21:51	22° △ 47'34 0°32'36
direct	6203 Jun 15 22:08	7° ≏ 01'44	max. Earth dist.	6209 Oct 12 14:56	22° △ 46'55 31.10777 AU
evening set	6203 Sep 13 08:27	8° £ 56'34	morning rise	6209 Oct 29 02:32	23° £ 23'16
			retrograde	6210 Jan 25 08:25	25° ≙ 17'03
conjunction	6203 Sep 29 15:30	9° £ 32'29 0°15'14	1.1	6210 Apr 13 02:10	23° £ 53'46 0°36'16
minimum elong	6203 Sep 29 15:30	9° £ 32'29 0°15'15		6210 Apr 13 08:53	23° £ 53'18 29.11382 AU
behind sun begin	6203 Sep 29 13:45	9° £ 32'20	direct	6210 Jul 01 06:54	22° Ω 28'58
behind sun end	6203 Sep 29 17:15	9° △ 32'38	evening set	6210 Sep 29 04:43	24° £ 24'01
max. Earth dist.	6203 Sep 29 12:42	9° £ 32'14 31.0548			
morning rise	6203 Oct 15 21:41	10° £ 08'22	conjunction	6210 Oct 15 10:44	24° £ 59'47 0°35'20
retrograde	6204 Jan 12 18:17	12° £ 02'54	minimum elong	6210 Oct 15 10:43	24° £ 59'47 0°35'21
opposition	6204 Mar 30 13:25	10° △ 39'19 0°17'50		6210 Oct 15 03:04	24° £ 59'05 31.11984 AU
min. Earth dist.	6204 Mar 30 16:08	10° £ 39'08 29.0589	Č	6210 Oct 31 15:10	25° £ 35'28
direct	6204 Jun 17 11:27	9° £ 14'41	retrograde	6211 Jan 27 20:21	27° ♀ 29'10
evening set	6204 Sep 14 21:49	11° ჲ 09'31	opposition	6211 Apr 15 12:06	26° ♀ 05'59 0°39'11
	(204.0 + 01.04.20	110 0 45125 0010113	min. Earth dist.	6211 Apr 15 18:23	26° ♀ 05'33 29.12621 AU
conjunction	6204 Oct 01 04:39	11° ♀ 45'25 0°18'13		6211 Jul 03 19:31	24° £ 41'13
minimum elong	6204 Oct 01 04:38	11° △ 45'25 0°18'13	· ·	6211 Oct 01 17:51	26° ≙ 36′20
max. Earth dist.	6204 Oct 01 00:05	11° £ 45'00 31.0629		(211 0 + 17 22 24	270 0 1210 (0020101
morning rise	6204 Oct 17 10:44	12° £ 21'16	conjunction	6211 Oct 17 23:34	27° ♀ 12'06 0°38'01
retrograde	6205 Jan 14 05:00	14° № 15'40	minimum elong	6211 Oct 17 23:34	27° ♀ 12'06 0°38'03
opposition	6205 Apr 01 23:41	12° ♀ 52'07 0°21'01		6211 Oct 17 15:03	27° 2 11'19 31.13243 AU
min. Earth dist.	6205 Apr 02 03:29	12° 2 51'51 29.0669	Č	6211 Nov 03 03:40	27° ♀ 47'44
direct	6205 Jun 19 21:59	11° ♀ 27'25	retrograde	6212 Jan 30 08:03	29° £ 41'23
evening set	6205 Sep 17 11:04	13° ≙ 22'16	opposition	6212 Apr 16 22:20	28° № 18'18 0°42'01
	(205.0 + 02.17.57	120 0 50100 0001110	min. Earth dist.	6212 Apr 17 06:06	28° 2 17'45 29.13897 AU
conjunction	6205 Oct 03 17:57	13° 2 58'09 0°21'10		6212 Jul 05 06:20	26° ♀ 53'35
minimum elong	6205 Oct 03 17:57	13° 2 58'09 0°21'11	· ·	6212 Oct 03 06:44	28° ≙ 48'45
max. Earth dist.	6205 Oct 03 13:39	13° 2 57'46 31.0707		6212 0-4 10 12 12	200 0 24120 0040140
morning rise	6205 Oct 19 23:41	14° £ 33'59	conjunction	6212 Oct 19 12:18	29° \(\Omega \) 24'30 \(0^\circ 40'40 \)
retrograde	6206 Jan 16 14:09	16° £ 28'14	minimum elong	6212 Oct 19 12:18	29° £ 24'30 0°40'41
opposition	6206 Apr 04 09:44	15° ♀ 04'43 0°24'09		6212 Oct 19 03:40	29° 2 3'42 31.14505 AU
min. Earth dist.	6206 Apr 04 14:15	15° £ 04'24 29.0747	1 AU morning rise	6212 Nov 04 16:00	0°M00'06

	6212 Nov 04 14:54	0° M .		min. Earth dist.	6219 May 03 10:54	13° M 42'22	29.20305 AU
retrograde	6213 Jan 31 20:19	1°ML53'40		direct	6219 Jul 21 15:57	12°ML18'27	
opposition	6213 Apr 19 08:29	0°MJ30'41	0°44'49	evening set	6219 Oct 20 01:04	14°ML13'45	
min. Earth dist.	6213 Apr 19 16:31	0°M30'07	29.15123 AU				
	6213 May 08 00:51	30° ₹ Ω		conjunction	6219 Nov 05 04:27	14° M 49'17	0°57'12
direct	6213 Jul 07 19:57	29° ≙ 05'59		minimum elong	6219 Nov 05 04:27	14° M 49'17	0°57'14
	6213 Sep 04 17:31	0°M₊		max. Earth dist.	6219 Nov 04 13:46		31.20610 AU
evening set	6213 Oct 05 19:56	1°M01'14			6219 Nov 10 00:12	15° M ₊	
				morning rise	6219 Nov 21 05:28	15°M24'38	
conjunction	6213 Oct 22 01:06	1°M36'57	0°43'14	retrograde	6220 Feb 16 18:29	17°M17'26	
minimum elong	6213 Oct 22 01:06	1°M36'57	0°43'16	opposition	6220 May 04 07:45	15°M54'43	
max. Earth dist.	6213 Oct 21 14:41		31.15684 AU	min. Earth dist.	6220 May 04 20:24		29.20998 AU
morning rise	6213 Nov 07 04:33	2°M12'31 4°M06'00		direct	6220 Jun 08 20:32 6220 Jul 23 04:33	15°R M 14° M 29'49	
retrograde opposition	6214 Feb 03 07:02 6214 Apr 21 18:37	2°M43'06	0°47'32	direct	6220 Sep 04 18:51	14 1162949 15°M	
min. Earth dist.	6214 Apr 22 03:47		29.16263 AU	evening set	6220 Oct 21 13:25	16°M25'08	
direct	6214 Jul 10 06:41	1°M18'24	2).10203 AO	evening set	0220 Oct 21 13.23	10 11623 00	
evening set	6214 Oct 08 09:00	3°M13'41		conjunction	6220 Nov 06 16:26	17° M .00'37	0°59'15
evening set	0214 001 00 07.00	3 11013 41		minimum elong	6220 Nov 06 16:25	17°ML00'37	
conjunction	6214 Oct 24 14:04	3°M49'23	0°45'45	max. Earth dist.	6220 Nov 06 01:12		31.21324 AU
minimum elong	6214 Oct 24 14:04	3°M49'23	0°45'46	morning rise	6220 Nov 22 17:00	17°M35'56	
max. Earth dist.	6214 Oct 24 03:39		31.16754 AU	retrograde	6221 Feb 18 05:08	19°M28'38	
morning rise	6214 Nov 09 17:00	4°M24'55		opposition	6221 May 06 17:59	18°ML05'57	1°04'20
retrograde	6215 Feb 05 16:33	6°ML18'17		min. Earth dist.	6221 May 07 07:42	18° M .04'59	29.21765 AU
opposition	6215 Apr 24 04:55	4°ML55'28	0°50'11	direct	6221 Jul 25 15:56	16°ML41'02	
min. Earth dist.	6215 Apr 24 15:01	4°M54'45	29.17263 AU	evening set	6221 Oct 24 01:49	18°M36'21	
direct	6215 Jul 12 19:16	3°M30'46					
evening set	6215 Oct 10 22:04	5°M26'04		conjunction	6221 Nov 09 04:33	19° M .11'49	1°01'12
				minimum elong	6221 Nov 09 04:33	19° M .11'49	1°01'14
conjunction	6215 Oct 27 02:39	6°ML01'44	0°48'11	max. Earth dist.	6221 Nov 08 13:37		31.22135 AU
minimum elong	6215 Oct 27 02:39	6°M01'44	0°48'13	morning rise	6221 Nov 25 04:38	19° M 47'05	
max. Earth dist.	6215 Oct 26 14:09	6°ML00'35	31.17692 AU	retrograde	6222 Feb 20 16:06	21°M39'43	
morning rise	6215 Nov 12 05:20	6°M37'14		opposition	6222 May 09 04:02	20°M17'04	
retrograde	6216 Feb 08 03:50	8°M30'30		min. Earth dist.	6222 May 09 17:33		29.22617 AU
opposition	6216 Apr 25 15:07	7°ML07'43		direct	6222 Jul 28 05:35	18°M52'10	
min. Earth dist.	6216 Apr 26 01:32		29.18150 AU	evening set	6222 Oct 26 14:20	20°M47'32	
direct	6216 Jul 14 05:50	5°M42'59			(222)	010W 00150	1002105
evening set	6216 Oct 12 10:55	7°M38'18		conjunction	6222 Nov 11 16:33	21°M22'58	1°03'05
	(21(0-4 20 15:21	00 m 12156	0950124	minimum elong	6222 Nov 11 16:32	21°M22'58	1°03'07 31.23034 AU
conjunction minimum elong	6216 Oct 28 15:21 6216 Oct 28 15:21	8°M13'56 8°M13'56		max. Earth dist. morning rise	6222 Nov 11 00:28 6222 Nov 27 16:17	21°M58'12	31.23034 AU
max. Earth dist.	6216 Oct 28 03:02		31.18516 AU	retrograde	6223 Feb 23 02:52	23°M50'46	
morning rise	6216 Nov 13 17:29	8°M49'24	31.18310 AU	opposition	6223 May 11 14:16	22°M28'11	1°08'20
retrograde	6217 Feb 09 12:26	10°M42'33		min. Earth dist.	6223 May 12 04:12		29.23566 AU
opposition	6217 Apr 28 01:21	9° M .19'48	0°55'14	direct	6223 Jul 30 16:14	21°ML03'19	27.23300710
min. Earth dist.	6217 Apr 28 13:19		29.18927 AU	evening set	6223 Oct 29 02:30	22°M58'44	
direct	6217 Jul 16 16:40	7°M55'02		3			
evening set	6217 Oct 14 23:44	9°M50'21		conjunction	6223 Nov 14 04:28	23°M34'08	1°04'51
-				minimum elong	6223 Nov 14 04:28	23°M34'08	1°04'54
conjunction	6217 Oct 31 03:46	10°M25'57	0°52'51	max. Earth dist.	6223 Nov 13 13:10	23°M32'43	31.24006 AU
minimum elong	6217 Oct 31 03:46	10°M25'57	0°52'53	morning rise	6223 Nov 30 03:36	24°ML09'20	
max. Earth dist.	6217 Oct 30 13:51	10°ML24'39	31.19257 AU	retrograde	6224 Feb 25 12:25	26°M01'51	
morning rise	6217 Nov 16 05:41	11°M01'23		opposition	6224 May 13 00:33	24°M39'23	1°10'11
retrograde	6218 Feb 11 22:34	12°M54'24		min. Earth dist.	6224 May 13 15:03		29.24545 AU
opposition	6218 Apr 30 11:26	11°ML31'40	0°57'39	direct	6224 Aug 01 04:42	23°M14'33	
min. Earth dist.	6218 Apr 30 23:11		29.19634 AU	evening set	6224 Oct 30 14:54	25°M10'00	
direct	6218 Jul 19 05:02	10°ML06'51					
evening set	6218 Oct 17 12:27	12°M02'09		conjunction	6224 Nov 15 16:18	25°M45'24	
	(210 N	100m 0744	0055104	minimum elong	6224 Nov 15 16:17	25°M45'24	
conjunction	6218 Nov 02 16:14	12°M37'44		max. Earth dist.	6224 Nov 14 23:24		31.24986 AU
minimum elong	6218 Nov 02 16:14	12°M37'44		morning rise	6224 Dec 01 15:08	26°M20'34	
max. Earth dist. morning rise	6218 Nov 02 02:13 6218 Nov 18 17:36	12°IIL36'26 13°IL13'07	31.19931 AU	retrograde opposition	6225 Feb 26 23:59 6225 May 15 10:42	28°M13'02 26°M50'39	1011'56
morning 1150	6219 Jan 26 14:47	15°M		min. Earth dist.	6225 May 16 01:13		29.25514 AU
retrograde	6219 Feb 14 07:39	15°ML06'02		direct	6225 Aug 03 15:06	25°M25'52	27.23317 AU
1011051440	6219 Mar 05 06:58	15°RM		evening set	6225 Nov 02 03:08	27°M21'23	
opposition	6219 May 02 21:38	13°ML43'18	0°59'58	max. Earth dist.	6225 Nov 17 11:48		31.25907 AU
rr	, 21.00						

							
conjunction	6225 Nov 18 04:18	27°M56'45	1°08'08	morning rise	6231 Dec 17 21:32	11° ∡ ³39'17	
minimum elong	6225 Nov 18 04:18	27°M56'45	1°08'10	retrograde	6232 Mar 13 22:35	13° ₹ 31'25	
morning rise	6225 Dec 04 02:32	28°M31'53		opposition	6232 May 30 11:48	12° 渘 ¹09'14	1°21'06
	6226 Jan 22 07:38	0° ∡ ¹		min. Earth dist.	6232 May 31 06:08	12° ₹ 07'58	29.29132 AU
retrograde	6226 Mar 01 08:48	0° ∡ ¹24'20		direct	6232 Aug 19 00:25	10° ∡ ¹44'23	
	6226 Apr 09 05:51	30°RML		evening set	6232 Nov 17 15:01	12° ₹ 39'59	
opposition	6226 May 17 21:10	29°M02'01	1°13'34	Ü			
min. Earth dist.	6226 May 18 13:08		29.26385 AU	conjunction	6232 Dec 03 13:13	13° ∡ 15′07	1°16'21
direct	6226 Aug 06 01:57	27°MJ37'16	27.20303 110	minimum elong	6232 Dec 03 13:12	13° × 15'07	
	6226 Nov 04 15:31			Č			
evening set		29°M32'49		max. Earth dist.	6232 Dec 02 17:37		31.29202 AU
	6226 Nov 17 00:15	0° ∡ ¹		morning rise	6232 Dec 19 08:12	13° ₹ 50'01	
		_		retrograde	6233 Mar 16 07:55	15° ∡ ⁴42'05	
conjunction	6226 Nov 20 16:07	0° ₹ 08'09	1°09'37	opposition	6233 Jun 01 22:11	14° ⋌ 19'55	1°21'58
minimum elong	6226 Nov 20 16:07	0° ₹ 08'09	1°09'39	min. Earth dist.	6233 Jun 02 16:50	14° ∡ 18'37	29.29433 AU
max. Earth dist.	6226 Nov 19 22:08	0° ∡ ¹06′29	31.26719 AU	direct	6233 Aug 21 13:49	12° 渘 ¹55′03	
morning rise	6226 Dec 06 14:00	0° ∡ ¹43'16		evening set	6233 Nov 20 02:38	14° ∡ 750'37	
retrograde	6227 Mar 03 19:02	2° ∡ ³35'40		max. Earth dist.	6233 Dec 05 03:31	15° ∡ ¹23'49	31.29544 AU
opposition	6227 May 20 07:29	1° ∡ 13′26	1°15'06				
min. Earth dist.	6227 May 20 23:09		29.27134 AU	conjunction	6233 Dec 06 00:14	15° ∡ ¹25'44	1°17'06
mm. Darm dist.	6227 Jul 12 19:34	30°RML	27.27.10.110	minimum elong	6233 Dec 06 00:14	15° × ² 25'44	1°17'08
direct	6227 Aug 08 13:41	29°M48'41		morning rise	6233 Dec 21 18:56	16° х 200'35	1 1700
direct	Č	0° √		-			
	6227 Sep 04 01:13			retrograde	6234 Mar 18 19:21	17° 🖈 52'37	1000110
evening set	6227 Nov 07 03:44	1° ∡ ¹44'16		opposition	6234 Jun 04 08:40	16° ₹ 30'27	
max. Earth dist.	6227 Nov 22 09:53	2° ҂ 17′54	31.27390 AU	min. Earth dist.	6234 Jun 05 02:36		29.29828 AU
				direct	6234 Aug 24 01:29	15° ₹ 05'34	
conjunction	6227 Nov 23 04:00	2° ∡ 19'35	1°11'00	evening set	6234 Nov 22 14:00	17° ∡ ¹01'09	
minimum elong	6227 Nov 23 04:00	2° ҂ 19'35	1°11'02				
morning rise	6227 Dec 09 01:17	2° ∡ 754'39		conjunction	6234 Dec 08 11:18	17° ∡ ³36'14	1°17'44
retrograde	6228 Mar 05 04:18	4° ×7 47'01		minimum elong	6234 Dec 08 11:18	17° ∡ ³36'14	1°17'46
opposition	6228 May 21 18:04	3° ∡ ¹24'49	1°16'32	max. Earth dist.	6234 Dec 07 15:40	17° ∡ 734'25	31.29980 AU
min. Earth dist.	6228 May 22 11:17		29.27745 AU	morning rise	6234 Dec 24 05:21	18° ₹ 11'04	
direct	6228 Aug 09 23:44	2°×7'00'05	27.27713110	retrograde	6235 Mar 21 03:25	20°×103'04	
evening set	6228 Nov 08 15:45	3° × 755'41		opposition	6235 Jun 06 19:16	18°×740'56	1°23'19
evening set	0228 NOV 08 13.43	3 X 33 41		**			
	(220.) 24 15 25	40 720157	1010117	min. Earth dist.	6235 Jun 07 14:00		29.30313 AU
conjunction	6228 Nov 24 15:35	4° ∡ ³30'57	1°12'17	direct	6235 Aug 26 12:54	17° ∡ 16′05	
minimum elong	6228 Nov 24 15:35	4° ∡ ³30'57		evening set	6235 Nov 25 01:25	19° ∡ 11'40	
max. Earth dist.	6228 Nov 23 20:42		31.27935 AU				
morning rise	6228 Dec 10 12:30	5° ₹ 06'00		conjunction	6235 Dec 10 22:09	19° ∡ ¹46'44	1°18'15
retrograde	6229 Mar 07 14:54	6° ₹ ′58'19		minimum elong	6235 Dec 10 22:09	19° √ 46'44	1°18'18
opposition	6229 May 24 04:28	5° ∡ ¹36′09	1°17'50	max. Earth dist.	6235 Dec 10 01:54	19° ∡¹ 44'51	31.30520 AU
min. Earth dist.	6229 May 24 21:17	5° ∡ ³34'59	29.28217 AU	morning rise	6235 Dec 26 15:55	20° ҂ ¹21'32	
direct	6229 Aug 12 11:56	4° ∡ 11′23		retrograde	6236 Mar 22 13:06	22° ҂ 13'31	
evening set	6229 Nov 11 03:51	6° ₮ 07'00		opposition	6236 Jun 08 05:46	20° ₹ '51'26	1°23'49
max. Earth dist.	6229 Nov 26 07:28	6° ∡ 740′25	31.28341 AU	min. Earth dist.	6236 Jun 08 23:29	20° ₹ 50'13	29.30883 AU
				direct	6236 Aug 28 00:00	19° ∡ ¹26'37	
conjunction	6229 Nov 27 03:14	6° ∡ ¹42'14	1°13'27	evening set	6236 Nov 26 12:37	21° × ⁷ 22'13	
minimum elong	6229 Nov 27 03:14	6° × ⁷ 42'14		evening sec	02301101 20 12.37	21 7 22 19	
morning rise	6229 Dec 12 23:41	7° × 1211	1 13 2)	conjunction	6236 Dec 12 09:01	21° х 57'15	1°18'40
retrograde	6230 Mar 10 01:33	9° × 709'31		minimum elong	6236 Dec 12 09:01	21° × ⁷ 57'15	
•			1010102	_			
opposition	6230 May 26 14:52	7° × 747'21	1°19'02	max. Earth dist.	6236 Dec 11 13:17		31.31102 AU
min. Earth dist.	6230 May 27 08:59		29.28580 AU	morning rise	6236 Dec 28 02:16	22° ₹ 32'02	
direct	6230 Aug 14 23:32	6° ∡ °22'34		retrograde	6237 Mar 24 22:19	24° ≯ 24'01	
evening set	6230 Nov 13 15:46	8° ∡ 18'11		opposition	6237 Jun 10 16:29	23° ₹ 01'59	1°24'12
				min. Earth dist.	6237 Jun 11 11:19	23° ≯ 00'42	29.31470 AU
conjunction	6230 Nov 29 14:48	8° ₹ ′53′23	1°14'31	direct	6237 Aug 30 09:25	21° х 37'13	
minimum elong	6230 Nov 29 14:48	8° ₹ 53'23	1°14'34	evening set	6237 Nov 28 23:59	23° ҂ ³32'50	
max. Earth dist.	6230 Nov 28 19:15	8° ∡ 751'34	31.28662 AU				
morning rise	6230 Dec 15 10:44	9° ∡ ¹28'21		conjunction	6237 Dec 14 19:55	24° ∡ 07'50	1°18'58
retrograde	6231 Mar 12 12:16	11° х 20'33		minimum elong	6237 Dec 14 19:55	24° х 07'50	
opposition	6231 May 29 01:20	9° × 758'23	1°20'08	max. Earth dist.	6237 Dec 14 13:55 6237 Dec 13 23:55		31.31677 AU
min. Earth dist.	6231 May 29 19:25		29.28860 AU	morning rise	6237 Dec 13 23:35 6237 Dec 30 12:46	24° x 42'35	31.310// AU
			27.20000 AU	•			
direct	6231 Aug 17 13:33	8° ₹ 33'34		retrograde	6238 Mar 27 08:27	26° 🗷 34'34	1924/20
evening set	6231 Nov 16 03:30	10° × ⁷ 29'11	21 20021 : **	opposition	6238 Jun 13 03:04	25° ₹ 12'36	
max. Earth dist.	6231 Dec 01 05:22	11° ∡ ′02′26	31.28924 AU	min. Earth dist.	6238 Jun 13 21:14		29.32008 AU
				direct	6238 Sep 01 21:11	23° ∡ 47'52	
conjunction	6231 Dec 02 01:58	11° ≯ 04'21	1°15'29	evening set	6238 Dec 01 11:22	25° х¹ 43′30	
minimum elong	6231 Dec 02 01:58	11° ≯ 04'21	1°15'32	max. Earth dist.	6238 Dec 16 10:15	26° х 16′34	31.32170 AU

Tranetary Trient	omena of reptune	110111 0100 1	inough 0002 (O1), Astrodictist	AG 16-1-0-2023 1	+.23, pc	ige 12
conjunction	6238 Dec 17 06:49	26° ∡ 18′28	1°19'09	opposition	6245 Jun 28 07:39	10° පි 26'16	1°22'55
minimum elong	6238 Dec 17 06:49	26° ⊀ 18′28	1°19'12	min. Earth dist.	6245 Jun 29 02:38		29.32803 AU
morning rise	6239 Jan 01 23:13	26° ₹ 753'12		direct	6245 Sep 17 08:47	9° ට 01'33	
retrograde	6239 Mar 29 19:04	28° ∡ ³45'12		evening set	6245 Dec 16 16:16	10°る57'04	
opposition	6239 Jun 15 14:00	27° ∡ ¹23'16	1°24'36	Č			
min. Earth dist.	6239 Jun 16 09:06	27° ₹ '21'57	29.32464 AU	conjunction	6246 Jan 01 08:51	11° る 31'53	1°17'19
direct	6239 Sep 04 07:51	25° ₹ '58'33		minimum elong	6246 Jan 01 08:51	11° る 31'53	
evening set	6239 Dec 03 22:28	27° ∡ 54'11		max. Earth dist.	6245 Dec 31 12:24	11° る 29'58	31.32691 AU
· ·				morning rise	6246 Jan 16 22:26	12° る 06'26	
conjunction	6239 Dec 19 17:34	28° ₹ 29'08	1°19'14	retrograde	6246 Apr 13 16:47	13° る 58'26	
minimum elong	6239 Dec 19 17:34	28° ₹ 29'08	1°19'16	opposition	6246 Jun 30 18:45	12° る 36'27	1°22'14
max. Earth dist.	6239 Dec 18 21:29	28° ∡ ¹27'16	31.32566 AU	min. Earth dist.	6246 Jul 01 14:21		29.32761 AU
morning rise	6240 Jan 04 09:28	29° х 03′50		direct	6246 Sep 19 18:27	11° る 11'45	
Č	6240 Feb 01 10:44	ರ∘ಕ		evening set	6246 Dec 19 02:54	13° る 07'16	
retrograde	6240 Mar 31 05:23	0° ರ 55'51		844			
	6240 May 31 22:11	30°R <i>≯</i> 7		conjunction	6247 Jan 03 19:04	13° る 42'02	1°16'37
opposition	6240 Jun 17 00:55	29° х 33′56	1°24'37	minimum elong	6247 Jan 03 19:04	13°る42'02	
min. Earth dist.	6240 Jun 17 19:56		29.32787 AU	max. Earth dist.	6247 Jan 02 23:04	13°₹40'10	31.32702 AU
direct	6240 Sep 05 20:47	28° × ⁷ 09'14	27.52707110	morning rise	6247 Jan 19 08:19	14° る 16'35	31.32,02110
	6240 Dec 03 03:38	0°る		retrograde	6247 Apr 16 02:33	16°₹08'36	
evening set	6240 Dec 05 09:47	0° る 04'53		opposition	6247 Jul 03 05:52	14° る 46'39	1°21'25
max. Earth dist.	6240 Dec 20 07:04		31.32824 AU	min. Earth dist.	6247 Jul 04 00:04		29.32812 AU
max. Earth dist.	0240 DCC 20 07.04	0 037 47	31.32024 AO	direct	6247 Sep 22 06:07	13°る21'58	2).32012 AO
conjunction	6240 Dec 21 04:19	0°る39'48	1°19'11	evening set	6247 Dec 21 13:19	15° る 17'29	
minimum elong	6240 Dec 21 04:19	0°る39'48	1°19'14	max. Earth dist.	6248 Jan 05 09:07		31.32803 AU
morning rise	6241 Jan 05 19:56	1°る14'28	1 17 14	max. Lartii dist.	0240 Juli 03 07.07	15 05022	31.32003710
retrograde	6241 Apr 02 16:28	3°る06'29		conjunction	6248 Jan 06 05:04	15° ⋜ 52'14	1°15'48
opposition	6241 Jun 19 11:43	1°る44'34	1°24'31	minimum elong	6248 Jan 06 05:04	15° ප 52'14	
min. Earth dist.	6241 Jun 20 07:02		29.32988 AU	morning rise	6248 Jan 21 18:00	15 3 32 14	1 13 30
direct	6241 Sep 08 07:20	0°る19'53	27.52700 AO	retrograde	6248 Apr 17 13:07	18°る18'51	
evening set	6241 Dec 07 20:54	0 3 1933 2° 3 15'31		opposition	6248 Jul 04 17:05	16 3 16 31	1020/30
evening set	0241 Dec 07 20.34	2 01331		min. Earth dist.	6248 Jul 05 11:31		29.32961 AU
conjunction	6241 Dec 23 15:12	2° る 50'25	1°19'02	direct	6248 Sep 23 16:00	16 83339 15° 8 32'18	29.32901 AU
minimum elong	6241 Dec 23 15:12	2°る50'25			6248 Dec 22 23:45	13 3 32 18	
max. Earth dist.	6241 Dec 23 15:12 6241 Dec 22 18:44		31.32952 AU	evening set	6248 Dec 22 23:43	1/202/48	
		2 04831 3° る 25'03	31.32932 AU	conjunction	6249 Jan 07 15:15	18° る 02'33	1°14'53
morning rise	6242 Jan 08 06:15 6242 Apr 05 02:16	5° る 17'03		minimum elong	6249 Jan 07 15:15	18°る02'33	1°14'55
retrograde		3° ろ 55'09	1024110	max. Earth dist.	6249 Jan 06 20:27		31.32985 AU
opposition min. Earth dist.	6242 Jun 21 22:45					18°る0048 18°る37'04	31.32983 AU
	6242 Jun 22 18:36		29.33044 AU	morning rise	6249 Jan 23 03:47	18 ⁻ 63704 20° る 29'12	
direct	6242 Sep 10 20:59	2°る30'28 4°る26'05		retrograde	6249 Apr 19 23:25		1910127
evening set max. Earth dist.	6242 Dec 10 08:01 6242 Dec 25 04:01		21 22057 ATT	opposition	6249 Jul 07 04:10	19° る 07'19	
max. Earth dist.	6242 Dec 25 04:01	4 6 38 30	31.32957 AU	min. Earth dist.	6249 Jul 07 22:07		29.33144 AU
agniumation	6242 Day 26 01:42	5° る 00'57	1010146	direct	6249 Sep 26 03:37	17°る42'45 19°る38'17	
conjunction	6242 Dec 26 01:42 6242 Dec 26 01:42	5° る 00'57		evening set	6249 Dec 25 10:21 6250 Jan 09 05:52		31.33173 AU
minimum elong	6243 Jan 10 16:31	5° る 35'34	1 1049	max. Earth dist.	0230 Jan 09 03.32	20 011 12	31.331/3 AU
morning rise		3 3 33 34 7° る 27'33		agniumation	6250 Jan 10 01:19	20° ප 13'01	1°13'51
retrograde opposition	6243 Apr 07 13:53 6243 Jun 24 09:41	6° る 2733	1°23'57	conjunction minimum elong	6250 Jan 10 01:19	20°る13'01	1°13'51 1°13'53
min. Earth dist.	6243 Jun 25 04:57		29.33003 AU	morning rise	6250 Jan 25 13:39	20° ろ 47'31	1 13 33
direct	6243 Sep 13 09:06	4°る40'56	29.33003 AU	retrograde	6250 Apr 22 11:03	20 3 4731 22° る 39'44	
evening set	6243 Dec 12 18:51	6° る 36'32		opposition	6250 Jul 09 15:30	22 03944 21° る 17'52	1018117
evening set	0243 Dec 12 16.51	0 03032		min. Earth dist.	6250 Jul 10 09:12		29.33324 AU
agniumation	6243 Dec 28 12:17	7° る 11'22	1010124	direct	6250 Sep 28 13:22	19°る53'23	29.33324 AU
conjunction	6243 Dec 28 12:17	7° ろ 11'22			6250 Sep 28 13.22 6250 Dec 27 20:40	19 83323 21° 8 48'55	
minimum elong max. Earth dist.			31.32877 AU	evening set	0230 Dec 27 20.40	21 046 33	
	6243 Dec 27 15:34	7° る 0927 7° る 45'58	31.328// AU		(251 I 12 11-25	220=22227	1912142
morning rise	6244 Jan 13 02:33	7°る45°58 9° る 37'57		conjunction minimum elong	6251 Jan 12 11:25	22°る23'37 22°る23'37	1°12'42 1°12'45
retrograde	6244 Apr 08 22:14	9° ろ 3/3/ 8° ろ 16'01	1022120	C	6251 Jan 12 11:25		
opposition min. Earth dist.	6244 Jun 25 20:44 6244 Jun 26 16:54		1°23'30 29.32902 AU	max. Earth dist.	6251 Jan 11 17:18 6251 Jan 27 23:15	22°る21'56 22°る58'07	31.33321 AU
			29.32902 AU	morning rise			
direct	6244 Sep 14 21:01	6° る 51'18		retrograde	6251 Apr 24 21:44	24°る50'24	1017/01
evening set	6244 Dec 14 05:36	8° る 46'51		opposition	6251 Jul 12 03:04	23°₹28'34	
	(244 D 20 22 22	00=21140	1017155	min. Earth dist.	6251 Jul 12 21:01		29.33427 AU
conjunction	6244 Dec 29 22:32	9° る 21'40	1°17'55	direct	6251 Oct 01 02:54	22°る04'08	
minimum elong	6244 Dec 29 22:32	9° る 21'40		evening set	6251 Dec 30 07:14	23° る 59'40	
max. Earth dist.	6244 Dec 29 01:22		31.32777 AU		(252 I 1/ 2: 25	24072 ***	1011127
morning rise	6245 Jan 14 12:36	9° る 56'15		conjunction	6252 Jan 14 21:27	24°₹34'22	
retrograde	6245 Apr 11 07:47	11° る 48'13		minimum elong	6252 Jan 14 21:27	24° る 34'22	1*11'29

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max. Earth dist.	6252 Jan 14 02:23		31.33383 AU	min. Earth dist.	6258 Jul 28 04:58		29.30796 AU
morning rise	6252 Jan 30 09:09	25° る 08'50		direct	6258 Oct 16 12:56	7°≈18'55	
retrograde	6252 Apr 26 10:19	27° る 01'11		evening set	6259 Jan 14 06:55	9° ≈ 14'06	
opposition	6252 Jul 13 14:28	25° る 39'21	1°15'37				
min. Earth dist.	6252 Jul 14 07:37	25° ප 38'11	29.33433 AU	conjunction	6259 Jan 29 18:52	9° ≈ 48'41	1°00'01
direct	6252 Oct 02 14:51	24° ප 14'58		minimum elong	6259 Jan 29 18:53	9° ≈ 48'41	1°00'03
evening set	6252 Dec 31 17:36	26° る 10'29		max. Earth dist.	6259 Jan 29 01:54	9° ≈ 47'06	31.30477 AU
3				morning rise	6259 Feb 14 04:49	10° ≈ 23'05	
conjunction	6253 Jan 16 07:37	26° පි 45'10	1°10'06	retrograde	6259 May 12 07:59	12°≈15'46	
•	6253 Jan 16 07:37	26°₹45'10		opposition	6259 Jul 30 00:39	12 ≈13 40 10°≈53'37	1°03'04
minimum elong							
max. Earth dist.	6253 Jan 15 13:27		31.33314 AU	min. Earth dist.	6259 Jul 30 15:57		29.30278 AU
morning rise	6253 Jan 31 18:54	27° る 19'38		direct	6259 Oct 18 23:02	9° ≈ 29'13	
retrograde	6253 Apr 28 19:26	29° る 12'02		evening set	6260 Jan 16 16:46	11° ≈ 24′23	
opposition	6253 Jul 16 02:11	27° る 50'12	1°14'08				
min. Earth dist.	6253 Jul 16 20:17	27° ₹ 48'58	29.33288 AU	conjunction	6260 Feb 01 04:38	11° ≈ 58'57	0°58'02
direct	6253 Oct 05 02:48	26° පි 25'51		minimum elong	6260 Feb 01 04:38	11° ≈ 58'57	0°58'03
evening set	6254 Jan 03 04:07	28° る 21'20		max. Earth dist.	6260 Jan 31 13:28	11°≈57'32	31.30001 AU
S				morning rise	6260 Feb 16 14:12	12° ≈ 33'21	
conjunction	6254 Jan 18 17:40	28° ප 56'00	1°08'39	retrograde	6260 May 13 18:25	14°≈26'06	
minimum elong	6254 Jan 18 17:41	28° ろ 56'00	1°08'41	opposition	6260 Jul 31 12:28	13°≈03'56	1°00'54
· ·							
max. Earth dist.	6254 Jan 17 22:59		31.33100 AU	min. Earth dist.	6260 Aug 01 03:29		29.29838 AU
morning rise	6254 Feb 03 04:46	29° る 30'27		direct	6260 Oct 20 11:37	11° ≈ 39'35	
	6254 Feb 17 03:49	0° ≈		evening set	6261 Jan 18 02:44	13° ≈ 34'43	
retrograde	6254 May 01 05:48	1° ≈ 22'54					
opposition	6254 Jul 18 13:46	0° ≈ 01'02	1°12'32	conjunction	6261 Feb 02 14:12	14° ≈ 09'17	0°55'57
min. Earth dist.	6254 Jul 19 06:48	29° る 59'53	29.32991 AU	minimum elong	6261 Feb 02 14:12	14° ≈ 09'17	0°55'59
	6254 Jul 19 05:01	30°R₹		max. Earth dist.	6261 Feb 01 22:41	14° ≈ 07'50	31.29610 AU
direct	6254 Oct 07 15:30	28° ප 36'41		morning rise	6261 Feb 17 23:46	14° ≈ 43'41	
	6254 Dec 21 08:17	0° ≈			6261 Feb 25 13:05	15° ≈	
evening set	6255 Jan 05 14:30	0°≈32'08		retrograde	6261 May 16 07:07	16°≈36'32	
C			21 22727 ATT	•	•		0°58'38
max. Earth dist.	6255 Jan 20 09:27	1°≈05'04	31.32727 AU	opposition	6261 Aug 03 00:18	15°≈14'21	
				min. Earth dist.	6261 Aug 03 13:54		29.29470 AU
conjunction	6255 Jan 21 03:47	1° ≈ 06'47	1°07'07		6261 Aug 11 20:47	15°R ≈	
minimum elong	6255 Jan 21 03:47	1° ≈ 06'47	1°07'09	direct	6261 Oct 22 22:55	13° ≈ 50′04	
morning rise	6255 Feb 05 14:32	1° ≈ 41'13			6261 Dec 29 15:26	15° ≈	
retrograde	6255 May 03 15:44	3° ≈ 33'43		evening set	6262 Jan 20 12:34	15° ≈ 45'12	
opposition	6255 Jul 21 01:37	2° ≈ 11'49	1°10'50				
min. Earth dist.	6255 Jul 21 19:28	2° ≈ 10'36	29.32554 AU	conjunction	6262 Feb 04 23:52	16° ≈ 19'46	0°53'47
direct	6255 Oct 10 02:27	0°≈47'28		minimum elong	6262 Feb 04 23:52	16° ≈ 19'46	0°53'48
evening set	6256 Jan 08 00:39	2° ≈ 42'50		max. Earth dist.	6262 Feb 04 09:47	16°≈18'26	31.29255 AU
3							
conjunction				morning rise	6262 Feb 20 09:06	16°≈54'09	
minimum elong	6256 Ian 23 13:30	3°~17'28	1°05'28	morning rise	6262 Feb 20 09:06	16°≈54'09	
	6256 Jan 23 13:39	3°≈17'28		retrograde	6262 May 18 16:59	18° ≈ 47′08	0°56'17
_	6256 Jan 23 13:39	3° ≈ 17′28	1°05'30	retrograde opposition	6262 May 18 16:59 6262 Aug 05 12:23	18°≈47'08 17°≈24'57	
max. Earth dist.	6256 Jan 23 13:39 6256 Jan 22 19:42	3°≈17'28 3°≈15'47		retrograde opposition min. Earth dist.	6262 May 18 16:59 6262 Aug 05 12:23 6262 Aug 06 02:25	18°≈47'08 17°≈24'57 17°≈24'00	0°56'17 29.29117 AU
max. Earth dist.	6256 Jan 23 13:39 6256 Jan 22 19:42 6256 Feb 08 00:12	3°≈17'28 3°≈15'47 3°≈51'54	1°05'30	retrograde opposition min. Earth dist. direct	6262 May 18 16:59 6262 Aug 05 12:23 6262 Aug 06 02:25 6262 Oct 25 10:25	18°≈47'08 17°≈24'57 17°≈24'00 16°≈00'44	
max. Earth dist. morning rise retrograde	6256 Jan 23 13:39 6256 Jan 22 19:42 6256 Feb 08 00:12 6256 May 05 00:58	3°≈17'28 3°≈15'47 3°≈51'54 5°≈44'25	1°05'30 31.32237 AU	retrograde opposition min. Earth dist.	6262 May 18 16:59 6262 Aug 05 12:23 6262 Aug 06 02:25	18°≈47'08 17°≈24'57 17°≈24'00	
max. Earth dist. morning rise retrograde opposition	6256 Jan 23 13:39 6256 Jan 22 19:42 6256 Feb 08 00:12	3°≈17'28 3°≈15'47 3°≈51'54	1°05'30	retrograde opposition min. Earth dist. direct evening set	6262 May 18 16:59 6262 Aug 05 12:23 6262 Aug 06 02:25 6262 Oct 25 10:25	18°≈47'08 17°≈24'57 17°≈24'00 16°≈00'44	
max. Earth dist. morning rise retrograde	6256 Jan 23 13:39 6256 Jan 22 19:42 6256 Feb 08 00:12 6256 May 05 00:58	3°≈17'28 3°≈15'47 3°≈51'54 5°≈44'25 4°≈22'28	1°05'30 31.32237 AU	retrograde opposition min. Earth dist. direct	6262 May 18 16:59 6262 Aug 05 12:23 6262 Aug 06 02:25 6262 Oct 25 10:25	18°≈47'08 17°≈24'57 17°≈24'00 16°≈00'44	
max. Earth dist. morning rise retrograde opposition	6256 Jan 23 13:39 6256 Jan 22 19:42 6256 Feb 08 00:12 6256 May 05 00:58 6256 Jul 22 13:18	3°≈17'28 3°≈15'47 3°≈51'54 5°≈44'25 4°≈22'28	1°05'30 31.32237 AU 1°09'02	retrograde opposition min. Earth dist. direct evening set	6262 May 18 16:59 6262 Aug 05 12:23 6262 Aug 06 02:25 6262 Oct 25 10:25 6263 Jan 22 22:31	18°≈47'08 17°≈24'57 17°≈24'00 16°≈00'44 17°≈55'52	29.29117 AU
max. Earth dist. morning rise retrograde opposition min. Earth dist.	6256 Jan 23 13:39 6256 Jan 22 19:42 6256 Feb 08 00:12 6256 May 05 00:58 6256 Jul 22 13:18 6256 Jul 23 06:02	3°≈17'28 3°≈15'47 3°≈51'54 5°≈44'25 4°≈22'28 4°≈21'19	1°05'30 31.32237 AU 1°09'02	retrograde opposition min. Earth dist. direct evening set conjunction	6262 May 18 16:59 6262 Aug 05 12:23 6262 Aug 06 02:25 6262 Oct 25 10:25 6263 Jan 22 22:31 6263 Feb 07 09:29	18°≈47'08 17°≈24'57 17°≈24'00 16°≈00'44 17°≈55'52 18°≈30'25 18°≈30'25	29.29117 AU 0°51'33
max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	6256 Jan 23 13:39 6256 Jan 22 19:42 6256 Feb 08 00:12 6256 May 05 00:58 6256 Jul 22 13:18 6256 Jul 23 06:02 6256 Oct 11 15:05	3°≈17'28 3°≈15'47 3°≈51'54 5°≈44'25 4°≈22'28 4°≈21'19 2°≈58'05	1°05'30 31.32237 AU 1°09'02	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	6262 May 18 16:59 6262 Aug 05 12:23 6262 Aug 06 02:25 6262 Oct 25 10:25 6263 Jan 22 22:31 6263 Feb 07 09:29 6263 Feb 07 09:29	18°≈47'08 17°≈24'57 17°≈24'00 16°≈00'44 17°≈55'52 18°≈30'25 18°≈30'25	29.29117 AU 0°51'33 0°51'35
max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6256 Jan 23 13:39 6256 Jan 22 19:42 6256 Feb 08 00:12 6256 May 05 00:58 6256 Jul 22 13:18 6256 Jul 23 06:02 6256 Oct 11 15:05 6257 Jan 09 10:52	3°≈17'28 3°≈15'47 3°≈51'54 5°≈44'25 4°≈22'28 4°≈21'19 2°≈58'05 4°≈53'24	1°05'30 31.32237 AU 1°09'02 29.31999 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	6262 May 18 16:59 6262 Aug 05 12:23 6262 Aug 06 02:25 6262 Oct 25 10:25 6263 Jan 22 22:31 6263 Feb 07 09:29 6263 Feb 07 09:29 6263 Feb 06 19:33 6263 Feb 22 18:39	18°≈47'08 17°≈24'57 17°≈24'00 16°≈00'44 17°≈55'52 18°≈30'25 18°≈30'25 18°≈29'07 19°≈04'49	29.29117 AU 0°51'33 0°51'35
max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction	6256 Jan 23 13:39 6256 Jan 22 19:42 6256 Feb 08 00:12 6256 May 05 00:58 6256 Jul 22 13:18 6256 Jul 23 06:02 6256 Oct 11 15:05 6257 Jan 09 10:52	3°≈17'28 3°≈15'47 3°≈51'54 5°≈44'25 4°≈22'28 4°≈21'19 2°≈58'05 4°≈53'24 5°≈28'00	1°05'30 31.32237 AU 1°09'02 29.31999 AU 1°03'45	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	6262 May 18 16:59 6262 Aug 05 12:23 6262 Aug 06 02:25 6262 Oct 25 10:25 6263 Jan 22 22:31 6263 Feb 07 09:29 6263 Feb 06 19:33 6263 Feb 22 18:39 6263 May 21 04:21	18°≈47'08 17°≈24'57 17°≈24'00 16°≈00'44 17°≈55'52 18°≈30'25 18°≈30'25 18°≈29'07 19°≈04'49 20°≈57'55	29.29117 AU 0°51'33 0°51'35 31.28909 AU
max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	6256 Jan 23 13:39 6256 Jan 22 19:42 6256 Feb 08 00:12 6256 May 05 00:58 6256 Jul 22 13:18 6256 Jul 23 06:02 6256 Oct 11 15:05 6257 Jan 09 10:52 6257 Jan 24 23:30 6257 Jan 24 23:30	3°≈17'28 3°≈15'47 3°≈51'54 5°≈44'25 4°≈22'28 4°≈21'19 2°≈58'05 4°≈53'24 5°≈28'00 5°≈28'00	1°05'30 31.32237 AU 1°09'02 29.31999 AU 1°03'45 1°03'47	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	6262 May 18 16:59 6262 Aug 05 12:23 6262 Aug 06 02:25 6262 Oct 25 10:25 6263 Jan 22 22:31 6263 Feb 07 09:29 6263 Feb 06 19:33 6263 Feb 22 18:39 6263 May 21 04:21 6263 Aug 08 00:26	18°≈47'08 17°≈24'57 17°≈24'00 16°≈00'44 17°≈55'52 18°≈30'25 18°≈30'25 18°≈29'07 19°≈04'49 20°≈57'55 19°≈35'44	29.29117 AU 0°51'33 0°51'35 31.28909 AU 0°53'51
max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	6256 Jan 23 13:39 6256 Jan 22 19:42 6256 Feb 08 00:12 6256 May 05 00:58 6256 Jul 22 13:18 6256 Jul 23 06:02 6256 Oct 11 15:05 6257 Jan 09 10:52 6257 Jan 24 23:30 6257 Jan 24 23:30 6257 Jan 24 05:20	3°≈17'28 3°≈15'47 3°≈51'54 5°≈44'25 4°≈22'28 4°≈21'19 2°≈58'05 4°≈53'24 5°≈28'00 5°≈28'01 5°≈26'18	1°05'30 31.32237 AU 1°09'02 29.31999 AU 1°03'45	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	6262 May 18 16:59 6262 Aug 05 12:23 6262 Aug 06 02:25 6262 Oct 25 10:25 6263 Jan 22 22:31 6263 Feb 07 09:29 6263 Feb 06 19:33 6263 Feb 22 18:39 6263 May 21 04:21 6263 Aug 08 00:26 6263 Aug 08 12:56	18°≈47'08 17°≈24'57 17°≈24'00 16°≈00'44 17°≈55'52 18°≈30'25 18°≈30'25 18°≈29'07 19°≈04'49 20°≈57'55 19°≈35'44 19°≈34'53	29.29117 AU 0°51'33 0°51'35 31.28909 AU
max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	6256 Jan 23 13:39 6256 Jan 22 19:42 6256 Feb 08 00:12 6256 May 05 00:58 6256 Jul 22 13:18 6256 Jul 23 06:02 6256 Oct 11 15:05 6257 Jan 09 10:52 6257 Jan 24 23:30 6257 Jan 24 23:30 6257 Jan 24 05:20 6257 Feb 09 09:52	3°≈17'28 3°≈15'47 3°≈51'54 5°≈44'25 4°≈22'28 4°≈21'19 2°≈58'05 4°≈53'24 5°≈28'00 5°≈28'01 5°≈26'18 6°≈02'26	1°05'30 31.32237 AU 1°09'02 29.31999 AU 1°03'45 1°03'47	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	6262 May 18 16:59 6262 Aug 05 12:23 6262 Aug 06 02:25 6262 Oct 25 10:25 6263 Jan 22 22:31 6263 Feb 07 09:29 6263 Feb 06 19:33 6263 Feb 06 19:33 6263 Feb 22 18:39 6263 May 21 04:21 6263 Aug 08 00:26 6263 Aug 08 12:56 6263 Oct 27 22:53	18°≈47'08 17°≈24'57 17°≈24'00 16°≈00'44 17°≈55'52 18°≈30'25 18°≈30'25 18°≈29'07 19°≈04'49 20°≈57'55 19°≈35'44 19°≈34'53 18°≈11'36	29.29117 AU 0°51'33 0°51'35 31.28909 AU 0°53'51
max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	6256 Jan 23 13:39 6256 Jan 22 19:42 6256 Feb 08 00:12 6256 May 05 00:58 6256 Jul 22 13:18 6256 Jul 23 06:02 6256 Oct 11 15:05 6257 Jan 09 10:52 6257 Jan 24 23:30 6257 Jan 24 05:20 6257 Feb 09 09:52 6257 May 07 10:52	3°≈17'28 3°≈15'47 3°≈51'54 5°≈44'25 4°≈22'28 4°≈21'19 2°≈58'05 4°≈53'24 5°≈28'00 5°≈28'01 5°≈26'18 6°≈02'26 7°≈54'59	1°05'30 31.32237 AU 1°09'02 29.31999 AU 1°03'45 1°03'47 31.31647 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	6262 May 18 16:59 6262 Aug 05 12:23 6262 Aug 06 02:25 6262 Oct 25 10:25 6263 Jan 22 22:31 6263 Feb 07 09:29 6263 Feb 06 19:33 6263 Feb 22 18:39 6263 May 21 04:21 6263 Aug 08 00:26 6263 Aug 08 12:56	18°≈47'08 17°≈24'57 17°≈24'00 16°≈00'44 17°≈55'52 18°≈30'25 18°≈30'25 18°≈29'07 19°≈04'49 20°≈57'55 19°≈35'44 19°≈34'53	29.29117 AU 0°51'33 0°51'35 31.28909 AU 0°53'51
max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	6256 Jan 23 13:39 6256 Jan 22 19:42 6256 Feb 08 00:12 6256 May 05 00:58 6256 Jul 22 13:18 6256 Jul 23 06:02 6256 Oct 11 15:05 6257 Jan 09 10:52 6257 Jan 24 23:30 6257 Jan 24 23:30 6257 Jan 24 05:20 6257 Feb 09 09:52 6257 May 07 10:52 6257 Jul 25 00:57	3°≈17'28 3°≈15'47 3°≈51'54 5°≈44'25 4°≈22'28 4°≈21'19 2°≈58'05 4°≈53'24 5°≈28'00 5°≈26'18 6°≈02'26 7°≈54'59 6°≈32'57	1°05'30 31.32237 AU 1°09'02 29.31999 AU 1°03'45 1°03'47 31.31647 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6262 May 18 16:59 6262 Aug 05 12:23 6262 Aug 06 02:25 6262 Oct 25 10:25 6263 Jan 22 22:31 6263 Feb 07 09:29 6263 Feb 07 09:29 6263 Feb 06 19:33 6263 Feb 22 18:39 6263 May 21 04:21 6263 Aug 08 00:26 6263 Aug 08 12:56 6263 Oct 27 22:53 6264 Jan 25 08:20	18°≈47'08 17°≈24'57 17°≈24'00 16°≈00'44 17°≈55'52 18°≈30'25 18°≈30'25 18°≈30'25 18°≈36'44 20°≈57'55 19°≈35'44 19°≈34'53 18°≈11'36 20°≈06'43	29.29117 AU 0°51'33 0°51'35 31.28909 AU 0°53'51 29.28747 AU
max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	6256 Jan 23 13:39 6256 Jan 22 19:42 6256 Feb 08 00:12 6256 May 05 00:58 6256 Jul 22 13:18 6256 Jul 23 06:02 6256 Oct 11 15:05 6257 Jan 09 10:52 6257 Jan 24 23:30 6257 Jan 24 23:30 6257 Jan 24 05:20 6257 Feb 09 09:52 6257 May 07 10:52 6257 Jul 25 00:57 6257 Jul 25 17:58	3°≈17'28 3°≈15'47 3°≈51'54 5°≈44'25 4°≈22'28 4°≈21'19 2°≈58'05 4°≈53'24 5°≈28'00 5°≈28'01 5°≈26'18 6°≈02'26 7°≈54'59 6°≈32'57 6°≈31'48	1°05'30 31.32237 AU 1°09'02 29.31999 AU 1°03'45 1°03'47 31.31647 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6262 May 18 16:59 6262 Aug 05 12:23 6262 Aug 06 02:25 6262 Oct 25 10:25 6263 Jan 22 22:31 6263 Feb 07 09:29 6263 Feb 06 19:33 6263 Feb 02 18:39 6263 May 21 04:21 6263 Aug 08 00:26 6263 Aug 08 12:56 6263 Oct 27 22:53 6264 Jan 25 08:20	18°≈47'08 17°≈24'57 17°≈24'00 16°≈00'44 17°≈55'52 18°≈30'25 18°≈30'25 18°≈30'25 18°≈329'07 19°≈04'49 20°≈57'55 19°≈35'44 19°≈34'53 18°≈11'36 20°≈06'43	29.29117 AU 0°51'33 0°51'35 31.28909 AU 0°53'51 29.28747 AU
max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	6256 Jan 23 13:39 6256 Jan 22 19:42 6256 Feb 08 00:12 6256 May 05 00:58 6256 Jul 22 13:18 6256 Jul 23 06:02 6256 Oct 11 15:05 6257 Jan 09 10:52 6257 Jan 24 23:30 6257 Jan 24 23:30 6257 Jan 24 05:20 6257 Feb 09 09:52 6257 May 07 10:52 6257 Jul 25 00:57	3°≈17'28 3°≈15'47 3°≈51'54 5°≈44'25 4°≈22'28 4°≈21'19 2°≈58'05 4°≈53'24 5°≈28'00 5°≈26'18 6°≈02'26 7°≈54'59 6°≈32'57	1°05'30 31.32237 AU 1°09'02 29.31999 AU 1°03'45 1°03'47 31.31647 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6262 May 18 16:59 6262 Aug 05 12:23 6262 Aug 06 02:25 6262 Oct 25 10:25 6263 Jan 22 22:31 6263 Feb 07 09:29 6263 Feb 07 09:29 6263 Feb 06 19:33 6263 Feb 22 18:39 6263 May 21 04:21 6263 Aug 08 00:26 6263 Aug 08 12:56 6263 Oct 27 22:53 6264 Jan 25 08:20	18°≈47'08 17°≈24'57 17°≈24'00 16°≈00'44 17°≈55'52 18°≈30'25 18°≈30'25 18°≈30'25 18°≈36'44 20°≈57'55 19°≈35'44 19°≈34'53 18°≈11'36 20°≈06'43	29.29117 AU 0°51'33 0°51'35 31.28909 AU 0°53'51 29.28747 AU
max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	6256 Jan 23 13:39 6256 Jan 22 19:42 6256 Feb 08 00:12 6256 May 05 00:58 6256 Jul 22 13:18 6256 Jul 23 06:02 6256 Oct 11 15:05 6257 Jan 09 10:52 6257 Jan 24 23:30 6257 Jan 24 23:30 6257 Jan 24 05:20 6257 Feb 09 09:52 6257 May 07 10:52 6257 Jul 25 00:57 6257 Jul 25 17:58	3°≈17'28 3°≈15'47 3°≈51'54 5°≈44'25 4°≈22'28 4°≈21'19 2°≈58'05 4°≈53'24 5°≈28'00 5°≈28'01 5°≈26'18 6°≈02'26 7°≈54'59 6°≈32'57 6°≈31'48	1°05'30 31.32237 AU 1°09'02 29.31999 AU 1°03'45 1°03'47 31.31647 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6262 May 18 16:59 6262 Aug 05 12:23 6262 Aug 06 02:25 6262 Oct 25 10:25 6263 Jan 22 22:31 6263 Feb 07 09:29 6263 Feb 06 19:33 6263 Feb 02 18:39 6263 May 21 04:21 6263 Aug 08 00:26 6263 Aug 08 12:56 6263 Oct 27 22:53 6264 Jan 25 08:20	18°&47'08 17°&24'57 17°&24'00 16°&00'44 17°&55'52 18°&30'25 18°&30'25 18°&29'07 19°&04'49 20°&57'55 19°&35'44 19°&34'53 18°&11'36 20°&06'43 20°&41'16 20°&41'16	29.29117 AU 0°51'33 0°51'35 31.28909 AU 0°53'51 29.28747 AU
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max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6256 Jan 23 13:39 6256 Jan 22 19:42 6256 Feb 08 00:12 6256 May 05 00:58 6256 Jul 22 13:18 6256 Jul 23 06:02 6256 Oct 11 15:05 6257 Jan 09 10:52 6257 Jan 24 23:30 6257 Jan 24 23:30 6257 Jan 24 05:20 6257 Feb 09 09:52 6257 May 07 10:52 6257 Jul 25 00:57 6257 Jul 25 17:58 6257 Oct 14 01:08 6258 Jan 11 20:55	3°≈17'28 3°≈15'47 3°≈51'54 5°≈44'25 4°≈22'28 4°≈21'19 2°≈58'05 4°≈53'24 5°≈28'00 5°≈28'01 5°≈26'18 6°≈02'26 7°≈54'59 6°≈32'57 6°≈31'48 5°≈08'33 7°≈03'48 7°≈38'24 7°≈38'24	1°05'30 31.32237 AU 1°09'02 29.31999 AU 1°03'45 1°03'47 31.31647 AU 1°07'08 29.31395 AU 1°01'56 1°01'57	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. direct evening set	6262 May 18 16:59 6262 Aug 05 12:23 6262 Aug 06 02:25 6262 Oct 25 10:25 6263 Jan 22 22:31 6263 Feb 07 09:29 6263 Feb 06 19:33 6263 Feb 22 18:39 6263 May 21 04:21 6263 Aug 08 00:26 6263 Aug 08 12:56 6263 Oct 27 22:53 6264 Jan 25 08:20 6264 Feb 09 19:07 6264 Feb 09 19:07 6264 Feb 09 05:48 6264 Feb 25 04:06 6264 Aug 09 12:42	18°≈47'08 17°≈24'57 17°≈24'00 16°≈00'44 17°≈55'52 18°≈30'25 18°≈30'25 18°≈29'07 19°≈04'49 20°≈57'55 19°≈35'44 19°≈34'53 18°≈11'36 20°≈06'43 20°≈41'16 20°≈40'01 21°≈15'41 23°≈08'54 21°≈46'43	29.29117 AU 0°51'33 0°51'35 31.28909 AU 0°53'51 29.28747 AU 0°49'14 0°49'15 31.28504 AU 0°51'20
max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction min. Earth dist. direct evening set	6256 Jan 23 13:39 6256 Jan 22 19:42 6256 Feb 08 00:12 6256 May 05 00:58 6256 Jul 22 13:18 6256 Jul 23 06:02 6256 Oct 11 15:05 6257 Jan 09 10:52 6257 Jan 24 23:30 6257 Jan 24 23:30 6257 Jan 24 05:20 6257 Feb 09 09:52 6257 May 07 10:52 6257 Jul 25 00:57 6257 Jul 25 17:58 6257 Oct 14 01:08 6258 Jan 11 20:55 6258 Jan 27 09:21 6258 Jan 27 09:21 6258 Jan 26 16:36	3°≈17'28 3°≈15'47 3°≈51'54 5°≈44'25 4°≈22'28 4°≈21'19 2°≈58'05 4°≈53'24 5°≈28'00 5°≈28'01 5°≈26'18 6°≈02'26 7°≈54'59 6°≈32'57 6°≈31'48 5°≈08'33 7°≈03'48 7°≈38'24 7°≈38'24 7°≈36'50	1°05'30 31.32237 AU 1°09'02 29.31999 AU 1°03'45 1°03'47 31.31647 AU 1°07'08 29.31395 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. direct evening set	6262 May 18 16:59 6262 Aug 05 12:23 6262 Aug 06 02:25 6262 Oct 25 10:25 6263 Jan 22 22:31 6263 Feb 07 09:29 6263 Feb 07 09:29 6263 Feb 06 19:33 6263 Feb 22 18:39 6263 May 21 04:21 6263 Aug 08 00:26 6263 Aug 08 12:56 6263 Oct 27 22:53 6264 Jan 25 08:20 6264 Feb 09 19:07 6264 Feb 09 19:07 6264 Feb 09 05:48 6264 Feb 25 04:06 6264 Aug 09 12:42 6264 Aug 09 12:42 6264 Aug 10 01:48	18°≈47'08 17°≈24'57 17°≈24'00 16°≈00'44 17°≈55'52 18°≈30'25 18°≈30'25 18°≈29'07 19°≈04'49 20°≈57'55 19°≈35'44 19°≈34'53 18°≈11'36 20°≈40'43 20°≈41'16 20°≈40'01 21°≈15'41 23°≈08'54 21°≈46'43 21°≈45'50	29.29117 AU 0°51'33 0°51'35 31.28909 AU 0°53'51 29.28747 AU 0°49'14 0°49'15 31.28504 AU
max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6256 Jan 23 13:39 6256 Jan 22 19:42 6256 Feb 08 00:12 6256 May 05 00:58 6256 Jul 22 13:18 6256 Jul 23 06:02 6256 Oct 11 15:05 6257 Jan 09 10:52 6257 Jan 24 23:30 6257 Jan 24 23:30 6257 Jan 24 05:20 6257 Feb 09 09:52 6257 May 07 10:52 6257 Jul 25 00:57 6257 Jul 25 17:58 6257 Oct 14 01:08 6258 Jan 11 20:55	3°≈17'28 3°≈15'47 3°≈51'54 5°≈44'25 4°≈22'28 4°≈21'19 2°≈58'05 4°≈53'24 5°≈28'00 5°≈28'01 5°≈26'18 6°≈02'26 7°≈54'59 6°≈32'57 6°≈31'48 5°≈08'33 7°≈03'48 7°≈38'24 7°≈38'24	1°05'30 31.32237 AU 1°09'02 29.31999 AU 1°03'45 1°03'47 31.31647 AU 1°07'08 29.31395 AU 1°01'56 1°01'57	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. direct evening set	6262 May 18 16:59 6262 Aug 05 12:23 6262 Aug 06 02:25 6262 Oct 25 10:25 6263 Jan 22 22:31 6263 Feb 07 09:29 6263 Feb 06 19:33 6263 Feb 22 18:39 6263 May 21 04:21 6263 Aug 08 00:26 6263 Aug 08 12:56 6263 Oct 27 22:53 6264 Jan 25 08:20 6264 Feb 09 19:07 6264 Feb 09 19:07 6264 Feb 09 05:48 6264 Feb 25 04:06 6264 Aug 09 12:42	18°≈47'08 17°≈24'57 17°≈24'00 16°≈00'44 17°≈55'52 18°≈30'25 18°≈30'25 18°≈29'07 19°≈04'49 20°≈57'55 19°≈35'44 19°≈34'53 18°≈11'36 20°≈06'43 20°≈41'16 20°≈40'01 21°≈15'41 23°≈08'54 21°≈46'43	29.29117 AU 0°51'33 0°51'35 31.28909 AU 0°53'51 29.28747 AU 0°49'14 0°49'15 31.28504 AU 0°51'20

opposition

6258 Jul 27 12:47

8°**≈**43'19 1°05'09

compination CSS Feb 11 0-151 229-85217 676-851 cologoade C271 Jan 07 91 20 87-879 minitamination CSS Feb 10 1600 229-85100 312-90102 cert C271 Aug 20 123 79-80109 032-90100 229-2010 cert C271 Aug 20 123 79-80190 19-80190 cert C271 Aug 20 123 79-80190 229-2010 cert C271 Aug 10 123 79-80190 229-2010 cert C271 Aug 10 123 79-80190 229-2010 cert C271 Aug 10 123 79-80190 200-2010 200-2010 200-2010 200-2010 20	aaniumatian	6065 Eab. 11 04:51	2290052117	0°46'51	ratra ara da	6271 Jun 07 10:19	8°) €27'39	
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crompaced Co25 May 12 0.004 279-86792 overall seat of 2055 May 12 0.004 279-86791 overall seat of 2055 May 12 0.004 279-86791 overall seat of 2050 Say 12 1.204 279-86791 conjunction C250 Feb 1 3 1.415 279-86792 overall seat of 2050 Say 12 1.204 conjunction C257 Feb 1 3 1.013 279-86792 overall seat of 2050 Say 12 1.204 conjunction C257 Feb 1 3 1.013 279-86792 overall seat of 2050 Say 12 1.204 conjunction C257 Feb 1 3 1.013 279-86791 conjunction C257 Feb 1 3 1.013 279-86791 conjunction C257 Feb 1 3 1.013 279-8791 conjunction C257 Feb 1 3 1.013 279-8791 conjunction C257 Feb 1 3 1.013 279-8791 279-879				31.28015 AU				29.22208 AU
nin End disk C65 Oct 31 12-124 279-87912 292-7146 AU conjunction 6227 8-b 27 9008 8°H 1013 0'2829 evening set 6266 Jan 29 04-21 278-8828 4 minimum clong 6272 May 10 302 8°H 1013 10'2829 conjunction 626 6-bh 13 1436 258-80227 0'4424 crongand 6272 May 10 80 8°H 1013 0'289-80 nax. Earl dist. 626 6-bh 13 1033 258-80227 0'4424 crongand 6272 May 10 80-82 9'H4599 0'228-96 nax. Earl dist. 626 6-bh 13 1151 258-80213 312792 AU min Earl dist. 6272 No 16 60-80 9'H4599 0'21382 AU opposition 626 6-bh 13 1143 258-8018 0'405 min Earl dist. 6273 Feb 12 00-94 9'H46117 0'2240 opposition 626 6-bh 15 1141 258-8018 0'405 min Earl dist. 6273 Feb 12 00-93 10'H4217 0'2240 opposition 626 Au 11 113 258-8018 0'405 min Earl dist. 6273 Feb 12 00-93 10'H4217 0'2244 opposition 6267 Feb 13 00-93	-	,			evening set	6272 Feb 11 14:54	7° ∺ 35'42	
effect C5C65 Au C5C6 3 In 2 2008 25Pea 3319 minimum clong 6327 8 Ap 2 2008 84 (19 0.0) 25Pea 3219 conjunction C6C6 Fab 13 14 36 25Pea 027 0°4423 recipante 6277 Min 10 98.27 19K44440 19K24440 19K2440 19K2441		-	23° ≈ 57'51	0°48'45				
Poeming set	min. Earth dist.	-	23° ≈ 57'02	29.27746 AU	3			0°28'29
Company Comp	direct	6265 Oct 31 22:08	22° ≈ 33'49		minimum elong	6272 Feb 27 00:08	8° ₩ 10'13	0°28'29
	evening set	6266 Jan 29 04:21	24° ≈ 28'54		max. Earth dist.	6272 Feb 26 15:22	8° ₩ 09'24	31.21747 AU
minimal coloration Cape Fiel 13 14:36 257-869277 0'44:24 opposition Cape Face 13 1343 0'945273 0'94529 0'94529 0'94529 0'94529 0'94529 0'94529 0'94520 </td <td></td> <td></td> <td></td> <td></td> <td>morning rise</td> <td>6272 Mar 13 08:27</td> <td>8°) 44'40</td> <td></td>					morning rise	6272 Mar 13 08:27	8°) 44'40	
max. Earth dist 626 Feb 13 01:33 25*8e0213 31.27392 AU mine and disc 6272 Aug 2 7 23 col 9*H1529 92.21332 AU nomoming rise 6266 May 27 11:51 27*8e0120 evening set 6273 Feb 13 00:34 9*H4640 opposition 6266 Aug 15 01:35 26*8e0706 ordinate conjunction 6273 Feb 28 09:39 10*H2112 0*254 00 cevining set 6267 Na 13 1409 25*8e4008 minimum clong 6273 Feb 28 09:39 10*H2112 0*254 00 conjunction 6267 Feb 16 00:19 27*8e1441 0*4154 minimum clong 6273 Feb 28 09:39 10*H2112 0*254 00 conjunction 6267 Feb 16 00:19 27*8e1441 0*4154 opposition 6273 Mar 13 1615 10*H2112 0*254 00 minimum clong 6267 Feb 16 00:19 27*8e1441 0*4154 opposition 6273 Mar 13 161 11*H2702 0*254 00 retorgade 6267 Mar 03 08:51 27*8e4947 opposition 6274 Mar 02 19:12 12*H3491 opposition 6267 Aug 17 01:42 28*8e0512 opposition 6274 Mar 02 19:1	conjunction	6266 Feb 13 14:36	25° ≈ 03'27	0°44'23	retrograde	6272 Jun 09 07:22	10°) 38′42	
Intertiographs Co.56 Febr 28.2322 25% est 25%	minimum elong	6266 Feb 13 14:36	25° ≈ 03'27	0°44'24	opposition	6272 Aug 27 15:45	9° 升 15'59	0°28'56
monting pine C266 Feb 28 23.22 25% act	max. Earth dist.	6266 Feb 13 01:33	25°≈02'13	31.27392 AU	min. Earth dist.	6272 Aug 27 23:06	9° ₩ 15'29	29.21332 AU
Description Color May 27 11-51 27%-81120 Proposition Color May 11-151 Color May 12-151 Color	morning rise	6266 Feb 28 23:22	25°≈37'52		direct	•	7° ¥ 52'00	
Opposition Good Nag 14 13-15 General Content Good Nag 14 13-15 General Content Good Nag 16 13-15 General Content Good Nag 16 13-15 General Content Good Nag 16 14-19	-	6266 May 27 11:51	27°≈31'20		evening set	6273 Feb 13 00:34		
min Earth dist	•			0°46'05	0. tg		, ,, ,,	
Process Content Cont	**	•			conjunction	6273 Feb. 28, 09:39	10° ¥ 21'12	0°25'40
Conjunction Ca267 As 1 As 1.400 26°-as4078 Ca277 As 2.80 1.400		-		2).27000 AO				
Conjunction G267 Feb 16 00:19 27%al.14l 0'41'52 retrograde G273 Mar 15 17:54 19**M5'39 retrograde G267 Feb 16 00:19 27%al.14l 0'41'54 opposition G273 Aug 30 0'15 11'14'2702 0'25'54 mus. Earth dist. G267 Mar 0'85'17'142' 28%al.23s 31'26635 AU min. Earth dist. G273 Aug 30 0'15 11'14'2702 0'25'55 AU min. Earth dist. G273 Aug 30 0'15' 11'14'2702 0'25'55 AU min. Earth dist. G273 Aug 30 0'15' 11'14'2702 0'25'55 AU min. Earth dist. G273 Aug 30 0'15' 11'14'2702 0'25'55 AU min. Earth dist. G273 Aug 30 0'15' 11'14'2702 0'25'55 AU min. Earth dist. G273 Aug 30 0'15' 11'14'170'30' 11'14'170'30' 11'14'170' 11'14'170' 11'14'170' 11'14' 11'14'170' 11'14' 11'14'170' 11'14' 11'14'170' 11'14' 11					_			
Conjunction Coff Feb 16 00-19 27*sel444 741'S2 retrograde Coff Feb 16 00-19 27*sel444 741'S4 retrograde Coff Aug 17 01-14 741'S4 retrograde Coff Aug 17 01-14 741'S4 retrograde Coff Aug 17 01-14 28*se2024 retrograde Coff Feb 18 09:50 29*se255 retrograde Coff Feb 18 09:50 29*se255 retrograde Coff Feb 18 09:50 29*se255 retrograde Coff Feb 18 09:50 retrograd	evening set	626/ Jan 31 14:09	26°≈40'08					31.20918 AU
minimum elong 6267 Feb 16 60.119 27%el441 741544 max. Earth dist. 6275 Aug 30 14.15 11742702 027554 AU max. Earth dist. 6267 Feb 15 12.35 27%es4937 12.6635 AU min. Earth dist. 6276 Aug 30 11.01 11742702 29.0556 AU min. Earth dist. 6267 Aug 17 1314 28%el973 29.26221 AU cenimg set 6274 Feb 15 10.11 1174574 174		(2(7.7.1.1(.00.10	250 1441	0044150	•			
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moming rise 6267 May 29 21;46 29*84241 ceruing set 6273 Nov 18 17:52 10*H0875 11*H5*7* opposition 6267 May 17 01:42 28*82024 0*4322 conjunction 6274 Keb 15 10:11 11*H5*7* 0*2249 direct 6267 Nay 17 13:14 28*820724 0*2221 AU conjunction 6274 Mar 02 19:12 12*H3215 0*2249 evening set 6268 Feb 03 00:09 28*825124 minimum clong 6274 Mar 02 12:40 12*H3179 3*120194 AU conjunction 6268 Feb 18 09:59 29*82556 0*3918 retrograde 6274 Mar 02 12:40 12*H3179 3*20194 AU minimum clong 6268 Feb 18 09:59 29*82556 0*3919 retrograde 6274 Mar 02 12:40 13*H3813 0*2249 max. Earth dist 6268 Mar 04 18:36 0*Y-82556 0*3919 retrograde 6274 Kep 10 16:50 13*H3813 0*2249 retrograde 6268 Mar 04 18:36 0*Y-314 0*4035 12*E18*18 0*23*18 13*8 0*99854 12*H378 0*914*18 12*H44*18*19 0*99855 0*918*18<	minimum elong	6267 Feb 16 00:19	27°≈14'41	0°41'54	opposition	-		
Petrograde	max. Earth dist.	6267 Feb 15 12:35	27°≈13'35	31.26635 AU	min. Earth dist.	6273 Aug 30 11:40		29.20556 AU
opposition in Larth dist. 6.267 Aug 17 01.42 28%≈2024 0°4322 0°4322 value conjunction of 274 Mar 02 19:12 12°93215 0°2249 12°224 direct 6.267 Nov 05 19:27 26%≈6225 value minimum clong c74 Mar 02 19:13 12°93215 0°2249 12°24315 0°2249 12°24315 0°2249 12°24315 0°2249 12°24315 0°2249 12°24315 0°2249 12°2431 12°34215 0°2249 12°2431 12°34215 0°2249 12°2431 12°34215 0°2249 12°2431 12°34215 0°2249 12°2431 12°34215 0°2249 12°2431 12°34215 0°2249 12°2431 12°34213 3°240644 13°240644 13°340644 13°340644 13°340644 13°340644 13°340644 13°340644 13°340644 13°340644 13°340644 13°40644 13°440644	morning rise	6267 Mar 03 08:51	27° ≈ 49'07		direct	6273 Nov 18 17:52	10°) €03'05	
min. Earth dist 6267 Aug 17 13:14 28% sal 937 29.66221 AU conjunction 6274 Mar 02 19:13 12 12*3215 0°2249 direct 6268 Feb 03 00:09 28% sal 5124 Power 10 10 10 10 10 10 10 10 10 10 10 10 10	retrograde	6267 May 29 21:46	29° ≈ 42'41		evening set	6274 Feb 15 10:11	11°) (57'44	
Gerening set Ge78 Nov 95 19.72 Ge78-8678 Sept 19 10 Sept 29 Sept	opposition	6267 Aug 17 01:42	28° ≈ 20′24	0°43'22				
Conjunction G268 Feb 03 00:09 28*a5 24	min. Earth dist.	6267 Aug 17 13:14	28° ≈ 19'37	29.26221 AU	conjunction	6274 Mar 02 19:12	12°) 32′15	0°22'49
Conjunction 6268 Feb 18 09:59 29°≈25'56 0°39'18 retrograde 6274 Jun 14 04:54 15°40'10 13°40'644 minimum clong decay at the close of the close	direct	-	26°≈56'25		minimum elong	6274 Mar 02 19:13	12°) 32′15	0°22'49
Conjunction 6268 Feb 18 09:59 29°≈25'56 0°39'18 retrograde 6274 Jun 14 04:54 15°40'10 13°40'644 minimum clong decay at the close of the close	evening set	6268 Feb 03 00:09	28°≈51'24		Č	6274 Mar 02 12:40	12° ¥ 31'39	31.20194 AU
Conjunction G268 Feb 18 09.59 29°\$\text{\$\cupers_{\text{5}}\text{\$\cupers_{\text{5}}\text{\$\cupers_{\text{5}}\text{\$\cupers_{\text{5}}\text{\$\cupers_{\text{5}}\text{\$\cupers_{\text{5}\text{5}}\text{\$\cupers_{\text{5}\text{5}}\text{\$\cupers_{\text{5}\text{5}}\text{\$\cupers_{\text{5}\text{5}}\text{\$\cupers_{\text{5}\text{5}\text{\$\cupers_{\text{5}\text{\$\cupers_{\text{5}\text{\$\cupers_{\text{5}\text{\$\cupers_{\text{5}\text{5}\text{\$\cupers_{\text{5}\text{\$\cupers_{\text{5}\text{5}\text{\$\cupers_{\text{5}\text{5}\text{\$\cupers_{\text{5}\text{5}\text{\$\cupers_{\text{5}\text{5}\text{\$\cupers_{\text{5}\text{5}\text{\$\cupers_{\text{5}\text{5}\text{\$\cupers_{\text{5}\text{5}\text{\$\cupers_{\text{5}\text{5}\text{\$\cupers_{\text{5}\text{5}\text{\$\cupers_{\text{5}\text{5}\text{\$\cupers_{\text{5}\text{5}\$\cupers_{\text	8							
minimum elong	conjunction	6268 Feb. 18, 09:59	29°≈25'56	0°39'18	•			
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morning rise 6268 Mar 04 18:36 0°¥00′23 0°¥00′23 0°¥00′23 0°¥00′23 0°¥00′23 0°¥00′23 0°¥00′23 0°¥00′23 0°£06 Mar 04 14:25 0°¥0 1°¥50′3 0°£06 Mar 04 14:25 0°¥0 1°¥50′3 0°£06 Mar 04 14:25 0°¥01′35 0°£00′3 0°£00°3 0°£00°3 0°£00°3 0°£00°3 0°£0	Č					•		
crograde 6268 May 31 09:49 1°K540/3 conjunction 6275 Feb 17 19:49 1°¥ 08:55 Conjunction 6275 Mar 05 04:36 1°¥ 43/27 0°1955 min. Earth dist. 6268 Aug 18 13:58 0°¥31956 29.25270 AU minimum clong 6275 Mar 05 04:36 1°¥ 4327 0°1955 min. Earth dist. 6268 Sep 07 12:52 30°8 ≈ minimum clong 6275 Mar 05 04:36 1°¥ 4327 0°1956 May 10°1956 minimum clong 6275 Mar 05 04:36 1°¥ 4327 0°1956 May 10°1956 Max				31.23/36 AU		•		29.19633 AU
retrograde opposition 6268 May 31 09.49 1°\(3\)*5403 0°\(3\)*5407 0'\(4\)*350 conjunction 6275 Mar 05 04:36 14\(3\)*4327 0'\(1\)*550 min. Earth dist. 6268 Aug 18 01:00 0°\(3\)*30782 29.25270 AU minimum elong 6275 Mar 05 04:36 14\(3\)*4327 0'\(1\)*595 Aug 18 01:00 100 0°\(3\)*30782 100 0'\(3\)*30782	morning rise							
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retrograde 6269 Jan 04 00:04 0°** retrograde 6275 Jun 16 16:01 17°**12'2' opposition 6275 Sep 04 05:33 15°**149'32 0°19'43 opposition 6276 Sep 04 05:33 15°**149'32 0°19'43 opposition 6276 Sep 04 10:57 15°**149'10 29.19199 AU opposition 6269 Feb 19 19:45 1°**13709 0°36'41 evening set 6275 Nov 23 16:31 14°**147'15 14°**13709 0°36'41 evening set 6276 Feb 20 05:29 16°**20'15 16°**149'15 16°*		•	30°R ≈		max. Earth dist.	6275 Mar 04 22:12		31.19519 AU
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conjunction 6269 Feb 19 19:45 1° € 3709 0°36'40 direct 6275 Nov 23 16:31 14° € 25'42 Least 10 € 20'15 Max. Earth dist. 6269 Feb 19 19:45 1° € 3709 0°36'41 evening set 6276 Feb 20 05:29 16° € 20'15 Least 20'15 Least 20'15 Least 30'15 Least 30'15'	evening set	6269 Feb 04 09:54	1° ₩ 02'37		opposition	6275 Sep 04 05:33	15° ¥ 49'32	0°19'43
minimum elong 6269 Feb 19 19:45 1°\(3709\) 0°36'41 evening set 6276 Feb 20 05:29 16°\(32015\) 18 max. Earth dist. 6269 Feb 19 08:56 1°\(3608\) 31.24736 AU morning rise 6269 Mun 07 04:08 2°\(341135\) 1135 conjunction 6270 Feb 20 05:29 16°\(34215\) 20:21 4°\(340520\) 0°37'45 max. Earth dist. 6269 Aug 21 02:26 2°\(342153\) 0°37'45 max. Earth dist. 6269 Aug 21 13:21 2°\(342108\) 29.24227 AU morning rise 6276 Mar 06 14:19 16°\(3448\) 0°17'00 evening set 6269 Nov 09 18:26 1°\(348185\) 1°\(34818\) 29.24227 AU morning rise 6276 Mar 21 22:28 17°\(34219\) 29.24527 AU morning rise 6276 Mar 21 22:28 17°\(34219\) 19°\(34313\) 20 evening set 6270 Feb 20 5:09 3°\(348115\) 0°33'59 direct 6276 Sep 05 18:07 18°\(341147\) 10°16'34 minimum elong 6270 Feb 20 5:09 3°\(348115\) 0°33'59 direct 6276 Nov 25 04:12 16°\(343147\) 16°\(343147\) 16°\(343147\) 18 max. Earth dist. 6270 Feb 21 18:09 3°\(348115\) 0°33'59 direct 6270 Mar 09 13:37 4°\(3421347\) 20 evening set 6270 Mar 09 13:40 4°\(3421347\) 20 evening set 6270 Mar 09 13:40 4°\(3421347\) 20 evening set 6270 Mar 09 13:10 4°\(3421347\) 20 9090346 6°\(341347\) 20 923186 AU behind sun end 6277 Mar 08 20:39 19°\(340617\) 19°\(340537\) 20 evening set 6271 Feb 24 14:44 5°\(35916\) 0°31'16 evening set 6277 Mar 08 18:53 19°\(340537\) 19°\(340537\) 21°\(353347\) 21°\(353347\) 21°\(353347\) 21°\(353347\) 21°\(3533347\) 21°\(353347\) 21°\(3533347\) 21°\(3533347\) 21°\(353347\) 21°\(3533347\) 21°\(3533347\) 21°\(3533347\) 21°\(3533347\) 21°\(3533347\) 21°\(3533347\) 21°\(3533347\) 21°\(3533347\) 21°\(3533347\) 21°\(3533347\) 21°\(3533347\) 21°\(3533347\) 21°\(3533347\) 21°\(3533347\) 21°\(3533347\) 21°\(3533347\) 21°\(3533347					min. Earth dist.	6275 Sep 04 10:57	15°) 49′10	29.19199 AU
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max. Earth dist. 6269 Feb 19 08:56 1° %3608 31.24736 AU 31.24736 AU conjunction 6276 Mar 06 14:19 (6° %54'48) 16° %54'48 (0° 17'00) 0° 17'00 retrograde 6269 Jun 02 20:31 (20:26) 2° %42'53 (0° 37'45) minimum elong 6276 Mar 06 14:19 (16° %54'48) 0° 17'00 opposition 6269 Aug 21 02:26 (2° %42'53) 0° 37'45 max. Earth dist. 6276 Mar 06 14:19 (16° %54'48) 0° 17'00 min. Earth dist. 6269 Aug 21 13:21 (2° %42'08) 29 24227 AU max. Earth dist. 6276 Mar 06 12:12 22:28 17° %29'19 16° %54'22 31.18863 AU direct 6269 Nov 09 18:26 (1° %18'53) 1° \$\frac{1}{2}\text{18'5} retrograde 6276 Jun 18 02:17 19° \$\frac{2}{2}\text{22'2} 17° \$\frac{2}{2}\text{29'19} evening set 6270 Feb 06 19:40 3° \$\frac{1}{2}\text{18'54'} 0° 33'59 direct 6276 Sep 05 22:42 18° \$\frac{1}{2}\text{18'*} 18° \$\frac{1}{2}\text{11'2} conjunction 6270 Feb 22 05:09 3° \$\frac{1}{4}\text{11'3} 0° 33'59 evening set 6277 Feb 21 15:24 18° \$\frac{1}{3}\text{14'3} 18° \$\frac{1}{3}\text{14'3} morning rise 6270 Feb 21 18:09 3° \$\frac{1}{4}\text{11'3} 0° 33'59 evening set 6277 Mar 08 23:57 19° \$\frac{1}{3}\text{14'3} 19°	minimum elong	6269 Feb 19 19:45	1°) 37′09	0°36'41	evening set	6276 Feb 20 05:29	16° ∺ 20'15	
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min. Earth dist. 6276 Sep 05 22:42 18°\(\) 40°\(\) 42'\(\) 40°\					•			0916124
conjunction 6270 Feb 22 05:09 3°\(\frac{4}{8}\) 15 0°33'59 minimum elong 6270 Feb 22 05:09 3°\(\frac{4}{8}\) 15 0°33'59 evening set 6277 Feb 21 15:24 18°\(\frac{4}{3}\) 1'47 max. Earth dist. 6270 Feb 21 18:09 3°\(\frac{4}{4}\) 13 31.23690 AU morning rise 6270 Mar 09 13:37 4°\(\frac{4}{2}\) 2'42 conjunction 6277 Mar 08 23:57 19°\(\frac{4}{0}\) 19 0°14'03 retrograde 6270 Aug 23 14:50 4°\(\frac{4}{5}\) 5'3'58 0°34'51 behind sun begin ini. Earth dist. 6270 Nov 12 05:32 3°\(\frac{4}{2}\) 29.23186 AU evening set 6271 Feb 09 05:18 5°\(\frac{4}{2}\) 4'44 morning rise 6271 Feb 24 14:44 5°\(\frac{4}{5}\) 5'9'16 0°31'16 mini. Earth dist. 6277 Nov 27 14:18 18°\(\frac{4}{3}\) 20'\(\frac{4}{2}\) 29.17802 AU morning rise 6277 Nov 27 14:18 18°\(\frac{4}{3}\) 29.17802 AU minimum elong 6271 Feb 24 16:44 5°\(\frac{4}{5}\) 5'8'23 31.22668 AU direct 6277 Nov 27 14:18 18°\(\frac{4}{3}\) 18'\(\frac{4}{3}\) 29.17802 AU minimum elong 6277 Nov 27 14:18 18°\(\frac{4}{3}\) 18'\(\frac{4}{3}\) 29.17802 AU minimum elong 6271 Feb 24 05:18 5°\(\frac{4}{5}\) 5'8'23 31.22668 AU direct 6277 Nov 27 14:18 18°\(\frac{4}{3}\) 18'\(\frac{4}{3}\) 31'47 minimum elong 6276 Nov 25 04:12 16°\(\frac{4}{3}\) 14' morning rise 6277 Feb 21 15:24 18°\(\frac{4}{3}\) 14' 18°\(\frac{4}{3}\) 14' 18°\(\frac{4}{3}\) 14' 18°\(\frac{4}{3}\) 14' 18°\(\frac{4}{3}\) 19°\(\frac{4}{3}\) 19°\(\frac{4}{3}\) 10' 18°\(\frac{4}{3}\) 19°\(\frac{4}{3}\) 13' 18169 AU evening set 6271 Feb 24 14:44 5°\(\frac{4}{3}\) 5'\(\frac{4}{3}\) 116 opposition 6277 Sep 08 10:48 20°\(\frac{4}{3}\) 29'\(\frac{4}{3}\) 29.17802 AU max. Earth dist. 6271 Feb 24 15:24 18°\(\frac{4}{3}\) 18'\(\frac{4}{3}\) 18'\(\frac{4}{3}\) 18'\(\frac{4}{3}\) 18'\(\frac{4}{3}\) 29'\(\frac{4}{3}\) 29'\(\frac{4}{3}\) 13' 18169 AU evening set 6277 Nov 27 14:18 18°\(\frac{4}{3}\) 18'\(\frac{4}{3}\) 18'\(\frac{4}{3}\) 13' 18169 AU evening set 181	evening set	6270 Feb 06 19:40	3 π 13 43			=		
max. Earth dist. 6270 Feb 22 05:09 3°\(\frac{\pmax}{48'15} 0°\(33'59 \) evening set 6277 Feb 21 15:24 18°\(\frac{\pmax}{31'47} \) max. Earth dist. 6270 Feb 21 18:09 3°\(\frac{\pmax}{47'13} \) 31.23690 AU morning rise 6270 Mar 09 13:37 4°\(\frac{\pmax}{22'42} \) conjunction 6277 Mar 08 23:57 19°\(\frac{\pmax}{406'19} 0°\(14'03 \) retrograde 6270 Jun 05 09:03 6°\(\frac{\pmax}{16'32} \) minimum elong 6277 Mar 08 23:57 19°\(\frac{\pmax}{406'19} 0°\(14'04 \) opposition 6270 Aug 23 14:50 4°\(\frac{\pmax}{53'58} 0°\(34'51 \) behind sun begin 6277 Mar 08 20:39 19°\(\frac{\pmax}{406'01} \) min. Earth dist. 6270 Aug 24 00:09 4°\(\frac{\pmax}{53'20} 29.23186 \) AU behind sun end 6277 Mar 08 18:53 19°\(\frac{\pmax}{406'37} \) direct 6271 Feb 09 05:18 5°\(\frac{\pmax}{24'44} \) morning rise 6277 Mar 08 18:53 19°\(\frac{\pmax}{405'51} \) 31.18169 AU evening set 6271 Feb 24 14:44 5°\(\frac{\pmax}{59'16} 0°\(31'16 \) opposition 6277 Sep 08 06:56 20°\(\frac{\pmax}{12'40} 0°\(13'24 \) minimum elong 6271 Feb 24 14:44 5°\(\frac{\pmax}{59'16} 0°\(31'17 \) min. Earth dist. 6277 Nov 27 14:18 18°\(\frac{\pmax}{48'56} \)						•		29.18522 AU
max. Earth dist. 6270 Feb 21 18:09 3° €47'13 31.23690 AU morning rise 6270 Mar 09 13:37 4° €2'42 conjunction 6277 Mar 08 23:57 19° €06'19 0° 14'03 retrograde 6270 Jun 05 09:03 6° €16'32 minimum elong 6277 Mar 08 23:57 19° €06'19 0° 14'04 opposition 6270 Aug 23 14:50 4° €53'58 0° 34'51 behind sun begin 6277 Mar 08 20:39 19° €06'01 min. Earth dist. 6270 Aug 24 00:09 4° €53'20 29.23186 AU behind sun end 6277 Mar 09 03:16 19° €06'37 direct 6270 Nov 12 05:32 3° €29'57 max. Earth dist. 6277 Mar 08 18:53 19° €05'51 31.18169 AU evening set 6271 Feb 09 05:18 5° €24'44 morning rise 6277 Mar 24 08:17 19° €40'51 retrograde 6277 Jun 20 14:53 21° €35'34 conjunction 6271 Feb 24 14:44 5° €59'16 0° 31'16 opposition 6277 Sep 08 06:56 20° €12'40 0° 13'24 minimum elong 6271 Feb 24 14:44 5° €59'16 0° 31'17 min. Earth dist. 6277 Nov 27 14:18 18° €48'56	•							
morning rise 6270 Mar 09 13:37 4°€2'42 conjunction 6277 Mar 08 23:57 19°€06'19 0°14'03 retrograde 6270 Jun 05 09:03 6°€16'32 minimum elong 6277 Mar 08 23:57 19°€06'19 0°14'04 opposition 6270 Aug 23 14:50 4°€53'58 0°34'51 behind sun begin 6277 Mar 08 20:39 19°€06'01 min. Earth dist. 6270 Aug 24 00:09 4°€53'20 29.23186 AU behind sun end 6277 Mar 09 03:16 19°€06'37 direct 6270 Nov 12 05:32 3°€29'57 max. Earth dist. 6277 Mar 08 18:53 19°€05'51 31.18169 AU evening set 6271 Feb 09 05:18 5°€24'44 morning rise 6277 Mar 24 08:17 19°€40'51 retrograde 6277 Jun 20 14:53 21°€35'34 conjunction 6271 Feb 24 14:44 5°€59'16 0°31'17 min. Earth dist. 6277 Sep 08 06:56 20°€12'40 0°13'24 min. Earth dist. 6271 Feb 24 05:18 5°€59'16 0°31'17 min. Earth dist. 6277 Nov 27 14:18 18°€48'56	_				evening set	6277 Feb 21 15:24	18° ∺ 31'47	
retrograde 6270 Jun 05 09:03 6°\(\frac{1}{16}'32 \) minimum elong 6277 Mar 08 23:57 19°\(\frac{1}{19}'\) 0°14'04 opposition 6270 Aug 23 14:50 4°\(\frac{1}{15}'35'8 \) 0°34'51 behind sun begin 6277 Mar 08 20:39 19°\(\frac{1}{19}'\) \(\frac{1}{10}' \) 0°14'04 direct 6270 Aug 24 00:09 4°\(\frac{1}{15}'32 \) 29.23186 AU behind sun end 6277 Mar 09 03:16 19°\(\frac{1}{10}'\) \(\frac{1}{10}'\) \(\frac{1}{10}'\) \(\frac{1}{10}'\) 0°14'04 evening set 6270 Nov 12 05:32 3°\(\frac{1}{12}'\) 29.23186 AU morning rise 6277 Mar 08 18:53 19°\(\frac{1}{10}'\) \(\frac{1}{10}'\) \(\frac{1}{10}'\) \(\frac{1}{10}'\) \(\frac{1}{10}'\) 131.18169 AU evening set 6271 Feb 09 05:18 5°\(\frac{1}{12}'\) 444 morning rise 6277 Jun 20 14:53 21°\(\frac{1}{12}'\) 37:34 conjunction 6271 Feb 24 14:44 5°\(\frac{1}{10}'\) 5°\(\frac{1}{10}'\) 16 opposition 6277 Sep 08 06:56 20°\(\frac{1}{12}'\) 20°\(\frac{1}{12}'\) 29.17802 AU max. Earth dist. 6271 Feb 24 05:18 5°\(\frac{1}{10}'\) 5°\(\frac{1}{10}'\) 31.22668 AU direct 6277 Nov 27 14:18 18°\(\frac{1}{10}'\) 48'56	max. Earth dist.	6270 Feb 21 18:09		31.23690 AU				
opposition 6270 Aug 23 14:50 4°\(\frac{4}{5}\$)'58 0°34'51 behind sun begin min. Earth dist. 6270 Aug 24 00:09 4°\(\frac{4}{5}\$)'20 29.23186 AU behind sun end behind sun end max. Earth dist. 6277 Mar 08 20:39 19°\(\frac{1}{5}\$)'66'37 direct 6270 Nov 12 05:32 3°\(\frac{1}{5}\$)'57 max. Earth dist. 6277 Mar 08 18:53 19°\(\frac{1}{5}\$)'65'51 31.18169 AU evening set 6271 Feb 09 05:18 5°\(\frac{1}{5}\$)'44'4 morning rise 6277 Mar 24 08:17 19°\(\frac{1}{5}\$)'40'51 conjunction 6271 Feb 24 14:44 5°\(\frac{1}{5}\$)'16 0°31'16 opposition 6277 Sep 08 06:56 20°\(\frac{1}{5}\$)'12'40 0°13'24 min. Earth dist. 6271 Feb 24 05:18 5°\(\frac{1}{5}\$)'58'23 31.22668 AU direct 6277 Nov 27 14:18 18°\(\frac{1}{5}\$)'48'56	morning rise	6270 Mar 09 13:37	4°) 22'42		conjunction	6277 Mar 08 23:57	19°) 06'19	0°14'03
min. Earth dist. 6270 Aug 24 00:09 4°\\$53'20 29.23186 AU behind sun end direct 6277 Mar 09 03:16 19°\\$06'37 direct 6270 Nov 12 05:32 3°\\$29'57 max. Earth dist. 6277 Mar 08 18:53 19°\\$05'51 31.18169 AU evening set 6271 Feb 09 05:18 5°\\$24'44 morning rise 6277 Mar 24 08:17 19°\\$40'51 conjunction 6271 Feb 24 14:44 5°\\$59'16 0°31'16 opposition 6277 Sep 08 06:56 20°\\$12'40 0°13'24 minimum elong 6271 Feb 24 14:44 5°\\$59'16 0°31'17 min. Earth dist. 6277 Nov 27 14:18 18°\\$48'56	retrograde	6270 Jun 05 09:03	6° ₩ 16'32		minimum elong	6277 Mar 08 23:57	19° ₩ 06'19	0°14'04
min. Earth dist. 6270 Aug 24 00:09 4°\H53'20 29.23186 AU behind sun end direct 6270 Nov 12 05:32 3°\H29'57 max. Earth dist. 6277 Mar 09 03:16 19°\H06'37 log \H06'37 evening set 6271 Feb 09 05:18 5°\H24'44 morning rise retrograde 6277 Mar 24 08:17 19°\H40'51 conjunction 6271 Feb 24 14:44 5°\H59'16 0°31'16 opposition 6277 Sep 08 06:56 20°\H12'40 0°13'24 min. Earth dist. 6271 Feb 24 05:18 5°\H59'16 0°31'17 min. Earth dist. 6277 Nov 27 14:18 18°\H48'56		6270 Aug 23 14:50	4°) €53'58	0°34'51	behind sun begin	6277 Mar 08 20:39	19°) €06'01	
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evening set 6271 Feb 09 05:18 5°\tau24'44 morning rise retrograde 6277 Mar 24 08:17 19°\tau40'51 21°\tau35'34 conjunction 6271 Feb 24 14:44 5°\tau59'16 0°31'16 opposition 6277 Sep 08 06:56 20°\tau12'40 0°13'24 min. Earth dist. 6271 Feb 24 05:18 5°\tau55'23 31.22668 AU direct 6277 Nov 27 14:18 18°\tau48'56		-						31.18169 AU
retrograde 6277 Jun 20 14:53 21°\text{\chi}35'34 conjunction 6271 Feb 24 14:44 5°\text{\chi}59'16 0°31'16 opposition 6277 Sep 08 06:56 20°\text{\chi}12'40 0°13'24 min. Earth dist. 6271 Feb 24 14:44 5°\text{\chi}59'16 0°31'17 min. Earth dist. 6277 Sep 08 10:48 20°\text{\chi}12'42 29.17802 AU max. Earth dist. 6271 Feb 24 05:18 5°\text{\chi}58'23 31.22668 AU direct 6277 Nov 27 14:18 18°\text{\chi}48'56								
conjunction 6271 Feb 24 14:44 5°\£59'16 0°31'16 opposition 6277 Sep 08 06:56 20°\£12'40 0°13'24 min. Earth dist. 6271 Feb 24 14:44 5°\£59'16 0°31'17 min. Earth dist. 6277 Sep 08 10:48 20°\£12'24 29.17802 AU max. Earth dist. 6271 Feb 24 05:18 5°\£58'23 31.22668 AU direct 6277 Nov 27 14:18 18°\£48'56			- /(2117		-			
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max. Earth dist. 6271 Feb 24 05:18 5° ₹58'23 31.22668 AU direct 6277 Nov 27 14:18 18° ₹48'56						•		
	=					=		47.1/004 AU
morning rise $62/1$ Mar 11 25:00 $6^{\circ}\pi 35'43$ evening set $62/8$ Feb 24 01:08 $20^{\circ}\pi 43'27$				31.22008 AU				
	morning rise	02/11viar 11 23:00	o ⁻ 大33'43		evening set	02/8 Feb 24 01:08	20° 大 43'2'/	

	(270.) (11.00.44	2101/10100	0011105		(202.) (22.10.52	200017124	0004105
conjunction	6278 Mar 11 09:44	21° ¥ 18'00		minimum elong	6283 Mar 22 10:52	2°Υ17'34	0°04'05
minimum elong	6278 Mar 11 09:44	21°) 18'00	0°11'05	behind sun begin	6283 Mar 22 04:33	2°Υ17'00	
behind sun begin	6278 Mar 11 04:54	21°) 17′34		behind sun end	6283 Mar 22 17:11	2° Y 18′09	
behind sun end	6278 Mar 11 14:35	21° ¥ 18′27		max. Earth dist.	6283 Mar 22 10:25		31.12028 AU
max. Earth dist.	6278 Mar 11 06:17		31.17397 AU	morning rise	6283 Apr 06 19:25	2° Y 52'13	
morning rise	6278 Mar 26 17:53	21° ¥ 52'33		retrograde	6283 Jul 04 14:11	4° Y 47'41	
retrograde	6278 Jun 23 01:48	23°) 47′25		opposition	6283 Sep 22 12:38	3° Y ′24′20	
opposition	6278 Sep 10 19:55	22° ∺ 24'28	0°10'12	min. Earth dist.	6283 Sep 22 12:19		29.11453 AU
min. Earth dist.	6278 Sep 10 23:40	22° ∺ 24'13	29.16976 AU	direct	6283 Dec 11 14:16	2° Y '00'41	
direct	6278 Nov 30 02:00	21°) € 00'48		evening set	6284 Mar 08 12:25	3° Ƴ 54'55	
evening set	6279 Feb 26 11:09	22° 升 55′17					
				conjunction	6284 Mar 23 20:38	4° Y 29'30	-0°07'04
conjunction	6279 Mar 13 19:32	23° ∺ 29′50	0°08'06	minimum elong	6284 Mar 23 20:39	4° Y 29'30	0°07'05
minimum elong	6279 Mar 13 19:33	23° ¥ 29′50	0°08'07	behind sun begin	6284 Mar 23 14:43	4° Y 28'58	
behind sun begin	6279 Mar 13 13:50	23° ¥ 29′19		behind sun end	6284 Mar 24 02:35	4° Y 30'03	
behind sun end	6279 Mar 14 01:16	23°) 30′21		max. Earth dist.	6284 Mar 23 20:18	4° Y 29′29	31.10906 AU
max. Earth dist.	6279 Mar 13 15:41	23° ¥ 29'30	31.16523 AU	morning rise	6284 Apr 08 05:24	5° Y '04'10	
morning rise	6279 Mar 29 03:52	24° ₩ 04'24		retrograde	6284 Jul 06 01:43	6° Ƴ 59'46	
retrograde	6279 Jun 25 15:04	25°) 59′24		opposition	6284 Sep 24 01:29	5° Y 36′20	-0°09'06
opposition	6279 Sep 13 08:46	24°) (36′24	0°07'00	min. Earth dist.	6284 Sep 24 00:48		29.10391 AU
min. Earth dist.	6279 Sep 13 11:12		29.16042 AU	direct	6284 Dec 13 01:06	4°Υ12'43	
direct	6279 Dec 02 12:29	23° ₩ 12'44	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	evening set	6285 Mar 10 22:13	6°℃06'54	
evening set	6280 Feb 28 21:00	25° \ 07'11		evening set	0203 With 10 22.13	0 10054	
evening set	0200100 20 21.00	23 7(0/11		conjunction	6285 Mar 26 06:36	6° Ƴ 41'31	0°10'04
conjunction	6280 Mar 15 05:28	25°) 41'45	0°05'06	minimum elong	6285 Mar 26 06:35	6°Υ41'31	
	6280 Mar 15 05:27	25°) (41'45	0°05'06	behind sun begin	6285 Mar 26 01:24	6°Υ41'03	0 10 03
minimum elong		25° H 41'11	0 03 00	Č		6° Υ 41'59	
behind sun begin	6280 Mar 14 23:14			behind sun end	6285 Mar 26 11:47		21 00002 ATT
behind sun end	6280 Mar 15 11:41	25°) 42'19	21 15515 ATT	max. Earth dist.	6285 Mar 26 08:15		31.09893 AU
max. Earth dist.	6280 Mar 15 02:37		31.15517 AU	morning rise	6285 Apr 10 15:17	7° Υ 16'11	
morning rise	6280 Mar 30 13:46	26° ¥ 16′20		retrograde	6285 Jul 08 12:26	9° Y 11'56	
retrograde	6280 Jun 27 02:25	28° ₭ 11'28		opposition	6285 Sep 26 14:29	7° Y 48′27	
opposition	6280 Sep 14 21:48	26°) 48′23	0°03'46	min. Earth dist.	6285 Sep 26 12:30		29.09426 AU
min. Earth dist.	6280 Sep 15 00:43	26°) 48′11	29.14972 AU	direct	6285 Dec 15 13:19	6° Y ′24'52	
direct	6280 Dec 04 00:16	25° ¥ 24'45		evening set	6286 Mar 13 08:04	8° Y 19'02	
evening set	6281 Mar 02 06:57	27° ∺ 19'08					
				conjunction	6286 Mar 28 16:17	8° Y 53'39	
conjunction	6281 Mar 17 15:19	27° ¥ 53'42	0°02'05	minimum elong	6286 Mar 28 16:17	8° Y 53'39	0°13'04
minimum elong	6281 Mar 17 15:19	27°) 53′42	0°02'05	behind sun begin	6286 Mar 28 12:21	8° Ƴ 53'17	
behind sun begin	6281 Mar 17 08:56	27° ¥ 53′08		behind sun end	6286 Mar 28 20:13	8° Ƴ 54'00	
behind sun end	6281 Mar 17 21:43	27° ∺ 54'17		max. Earth dist.	6286 Mar 28 17:58	8° Y 53'48	31.08987 AU
max. Earth dist.	6281 Mar 17 12:49	27° ¥ 53'32	31.14402 AU	morning rise	6286 Apr 13 01:16	9° Ƴ 28'21	
morning rise	6281 Apr 01 23:44	28° ∺ 28'18		retrograde	6286 Jul 11 00:56	11° Y 24'15	
	6281 May 22 17:42	0° Y		opposition	6286 Sep 29 03:34	10° Ƴ 00'43	-0°15'30
retrograde	6281 Jun 29 15:23	0° Y 23′33		min. Earth dist.	6286 Sep 29 00:30	10° Y 00′56	29.08574 AU
	6281 Aug 07 15:40	30° ₹		direct	6286 Dec 17 23:31	8° Y 37'12	
opposition	6281 Sep 17 10:37	29°) €00′23	0°00'33	evening set	6287 Mar 15 17:55	10° Ƴ 31′20	
min. Earth dist.	6281 Sep 17 11:56	29° ₩ 00'17	29.13806 AU	-			
desc. node	6281 Nov 19 02:43	27°) 41'41		conjunction	6287 Mar 31 02:19	11° Y 05'58	-0°16'01
direct	6281 Dec 06 13:35	27°) 36′44		minimum elong	6287 Mar 31 02:19	11° Y 05'58	0°16'01
evening set	6282 Mar 04 16:50	29° ¥ 31′05		behind sun begin	6287 Mar 31 01:14	11° Y 05'52	
Ü	6282 Mar 17 13:23	$0^{\circ}\Upsilon$		behind sun end	6287 Mar 31 03:24	11° Y ′06'04	
				max. Earth dist.	6287 Mar 31 05:56		31.08168 AU
conjunction	6282 Mar 20 01:10	0° Y 05'39	-0°01'02	morning rise	6287 Apr 15 11:17	11° Y 40'41	
minimum elong	6282 Mar 20 01:08	0° Υ 05'39		retrograde	6287 Jul 13 11:39	13° Y 36'45	
behind sun begin	6282 Mar 19 18:45	0° Υ 05'05	0 01 05	opposition	6287 Oct 01 16:36	12° Υ 13'11	-0°18'40
behind sun end	6282 Mar 20 07:32	0° Υ 06'14		min. Earth dist.	6287 Oct 01 10:36 6287 Oct 01 13:05		29.07786 AU
max. Earth dist.	6282 Mar 19 23:14		31.13208 AU	direct	6287 Dec 20 10:29	10° Υ 49'44	2).01160 AC
	6282 Apr 04 09:39	0° Υ 40'16	51.15200 AU		6288 Mar 17 03:57	10 γ 49 44 12° Υ 43'50	
morning rise	•	0° γ 40 16 2° γ 35 38		evening set	0200 IVIAI 1/ U3:3/	12 1 45 50	
retrograde	6282 Jul 02 03:42		0002140		6200 A 01 12 17	13° Ƴ 18′29	0010150
opposition	6282 Sep 19 23:42	1° Y 12′22		conjunction	6288 Apr 01 12:17		
min. Earth dist.	6282 Sep 20 01:15		29.12613 AU	minimum elong	6288 Apr 01 12:17	13°Υ18'29	
T.	6282 Nov 12 11:13	30° ₹ ₩		max. Earth dist.	6288 Apr 01 15:53		31.07409 AU
direct	6282 Dec 09 01:17	29°) 48'43		morning rise	6288 Apr 16 21:32	13°Y53'15	
	6283 Jan 04 02:06	0° Υ		retrograde	6288 Jul 15 01:13	15° Y 49'28	0001:::0
evening set	6283 Mar 07 02:30	1° Ƴ 42'59		opposition	6288 Oct 03 05:40	14° Y 25'52	
			000 445 -	min. Earth dist.	6288 Oct 03 00:37		29.07035 AU
conjunction	6283 Mar 22 10:53	2° Y 17'35	-0°04'05	direct	6288 Dec 21 20:08	13° Y 02′28	
conjunction							

Compunetion	evening set	6289 Mar 19 14:00	14° Ƴ 56'34	retrograde	6295 Jul 31 17:47	1° 8 22'08
minimar loung					6295 Oct 18 21:39	30° ₹ Υ
mxx. Enth datal morning rise of 2809 Arry 107 (32) 2 167(9002) companied (3200 Arr) 131.6 167(9024) coverage (3200 Arr) 131.6 167(9024) coverage (3200 Arr) 131.6 167(9306) 2016 Call Call Call Call Call Call Call Cal	conjunction	6289 Apr 03 22:24	15° Ƴ 31'14 -0°21'	'53 opposition	6295 Oct 20 02:33	29° Y ′58'01 -0°42'44
moning rice (recorgane) G289 Aur J 19 07-84 69°000 40°000 9°048 Nat J 20 07-84 <	minimum elong	6289 Apr 03 22:24	15° Ƴ 31'14 0°21'	'54 min. Earth dist.	6295 Oct 19 18:01	29° Ƴ 58'36 28.99778 AU
Decopation Ca59 p.t. of 131 18 18 19 19 29 29 20 20 20 20 20 2	max. Earth dist.	6289 Apr 04 03:15	15° Ƴ 31'41 31.06	6644 AU direct	6296 Jan 07 09:12	28° Ƴ 34'39
Deposition C899 Oct 05 18-56 10**	morning rise	6289 Apr 19 07:42	16° Ƴ 06′01		6296 Mar 21 08:39	0° 8
min. Earth dist. 629 Oct 05 14.11 10°79'90 (2002) 2001001 6208 Apr 12 0.01 12°10'90'31 10°11'10'10'10'10'10'10'10'10'10'10'10'10'1	retrograde	6289 Jul 17 13:16	18° Ƴ 02'24	evening set	6296 Apr 03 14:29	0° 8 28'28
eines 6,290 May 2, 20 (20) 17°M (29) minimum elong 6,306 Apr 19 (0.8) 16'M (20) 0.99(1) (1.3	opposition	6289 Oct 05 18:56				
Powering sets	min. Earth dist.	6289 Oct 05 14:11	16° Y 39′06 29.06	6261 AU conjunction	6296 Apr 18 23:37	1° 8 03'13 -0°41'17
Compaction	direct	6289 Dec 24 07:32		minimum elong	6296 Apr 18 23:37	_
Conjunction G.290 Apr G. 684 12**PG411 -0*2447 errograde G.296 Arg G. 61-07 3**G\$1570 errograde G.296 Arg G. 61-07 3**G\$1570 errograde G.296 Arg G. 61-07 63*G\$1574 errograde G.297 Arg G. 61-07 63*G\$1574 errograde G.297 Arg G. 61-07 63*G\$1574 errograde G.297 Arg G. 60-07 G. 62*G\$1574 errograde G.297 Arg G. 60-07 G. 62*G\$1674 errograde G.297 Arg G. 60-07 G. 60*G\$1674 errograde G.297 Arg G. 60*G\$1859 errograde G.298 Arg G. 60*G\$1859	evening set	6290 Mar 22 00:14	17° Ƴ 09'31	max. Earth dist.	6296 Apr 19 08:52	1° 8 04'06 30.99154 AU
minimal elong 629 Agr 60 68-40 17°P'4411 0'2449 opposition 629 6 cd 2 1 1544 2°B'1107 2°B'35 0 morning rue 6290 Agr 21 1809 18°P'18'89 dreef 6290 Agr 10 120 033 2°B'170 0'B'1741				C	6296 May 04 10:17	1° 8 38'10
max. Earth dist	conjunction	6290 Apr 06 08:41		'47 retrograde	6296 Aug 02 04:07	3° 8 35'20
morning rise G.90 Apr 2 1 809 18°P1859 recreaged G.90 Fabr 3	minimum elong	6290 Apr 06 08:40			6296 Oct 21 15:44	2° 8 11'07 -0°45'30
Description Cappo Oct 08 01-30 Cappo Oct 08 01-50 Cappo Oct 08 0	max. Earth dist.	6290 Apr 06 14:03		min. Earth dist.	6296 Oct 21 06:44	2° 8 11'44 28.98596 AU
opposition 6.90 Oct 0 8 08.09 18°95 151 J 2°80 1 min. Earth dist. 6.290 Occ 26 20:10 17°P2'832 4 conjunction 6.297 Apr 21 10:20 3°8'1616 0°43'51 evening set 6.291 Mar 24 10:31 19°P2'237 minimum clong 6.297 Apr 21 10:20 3°8'1616 0°43'51 conjunction 6.291 Apr 08 18:59 19°P5'718 0°2739 retograde 6.297 Aug 0°17:35 59'48'11 max. Earth dist. 6.291 Apr 08 00:39 19°P5'718 0°2730 0°273'08 6.290 Apr 24 20 40:52 49'24'14 0°48'13 morning rise 6.291 Apr 09 00:39 19°P5'718 0°2730 0°273'08 0°270'02 29'80'14 29'82'14 0°48'17 0°48'18 retograde 6.291 Apr 09 00:39 19°P3'738 0°273'08 0°270'08 0°270'08 0°270'08 0°270'08 0°270'08 0°270'08 0°270'08 0°270'08 0°270'08 0°270'08 0°270'08 0°270'08'08 0°270'08 0°270'08'08 0°270'08'08'08'08'09'09'22 0°48'273'08'08'09'09'22 0°48'273'08'08'09'09'22 0°48'273'08'09'09'09'22 0°48'072 0°48'273'08'09'09'09'22 0°48'072 0°48'072 0°48'072	morning rise	6290 Apr 21 18:09	18° Ƴ 18'59	direct		0° 8 47'44
sint and disc 6.90 Oct 08 01.50 18°P5217 29.0435 AU conjunction 6.907 Apr 2 1 10.02 3°81616 6.4350 between general cereming set 6.991 Mar 24 10.31 19°P5237 main manual disc 6.907 Apr 2 1 10.24 3°81616 6.4351 between general cereming set conjunction 6.291 Apr 08 18.59 19°P5718 4°27740 emoning fise 6297 Aug 04 17.35 3°81871 0°38028 AU minimum elong 6.291 Apr 08 18.59 19°P5718 4°2740 epoposition 6297 Aug 04 17.35 3°81871 0°458114 0°45418	retrograde	6290 Jul 20 03:37	20° Y 15′31	evening set	6297 Apr 06 00:53	2° 8 41'30
Direct Corp	opposition	6290 Oct 08 08:09				
evening set	min. Earth dist.	6290 Oct 08 01:50		6435 AU conjunction	6297 Apr 21 10:02	_
conjunction 6291 Apr 08 18:59 19"ST18 02739 retrograte conjunction 6291 Apr 08 18:59 19"\footnote{ST18 02739 retrograte 6297 Apr 24 104:52 4"\footnote{ST28 Apr 08 18:59 19"\footnote{ST18 02740 retrograte 6291 Apr 24 104:52 4"\footnote{ST28 Apr 08 18:59 19"\footnote{ST28 Apr 08 18:59 19"\footnote{ST28 Apr 08 18:59 19"\footnote{ST28 Apr 08 18:59 19"\footnote{ST28 Apr 08 18:59 4"\footnote{ST28 Ap	direct	6290 Dec 26 20:10		minimum elong	6297 Apr 21 10:02	
Sequenciation G291 Apr 81 R59 19"Y5718 0"2739 retrograde 6297 Aug 04 17.35 5"248"1 1"3"	evening set	6291 Mar 24 10:31	19° Ƴ 22'37	max. Earth dist.	6297 Apr 21 19:24	3° 8 17'10 30.98025 AU
minimum olong 6.91 Apr 08 81.59 19°Y5718 0°2740 opposition 6.97 Oct 24 04.52 4°82414 28*13 max. Earth dist. 6291 Apr 29 0.903 19°Y5759 31.04972 AU min. Earth dist. 6299 Cor 23 18:12 4°82418 28.90528 4°85435 28.90505 4°85435 28.90505 4°85436 4°85435 4°85435 4°85435 4°85435 4°85435 4°85435 4°85435 4°85435 4°85435 4°85435 4°85435 4°85435 4°85435 4°85435 4°85435 4°85435 4°85435 4°8620 4°8620 4°8620 4°8620 4°8620 4°8620 4°8620 4°8620 4°8620 4°8620 4°8620 4°8620 4°8620 4°8620 4°8620 4°8620 4°86				morning rise	6297 May 06 21:01	3° 8 51'14
max. Earth dist. 6.291 Apr 20 90.03 19°YS750 31.04972 AU min Earth dist. 6.297 Det 23 18.12 4 *82458 28.97528 AU morning rise 6291 Apr 24 04.41 20°Y3208 evening set 6298 Apr 10 11.07.37 3°800751 certograde 6291 Oct 10 21:34 21°Y05080 0°3100 conjunction 6298 Apr 23 12.041 5°82923 0°4620 direct 6291 Dec 29 07:15 19°Y61414 min Earth dist. 6298 Apr 23 2.041 5°82923 0°4620 conjunction 6292 Apr 10 05:35 21°Y1523 0°3009 propring rise 6298 Apr 24 07:24 5°82923 0°4620 minimum clong 6292 Apr 10 05:35 22°Y1103 0°300 opposition 6298 Apr 24 07:24 5°82923 0°4620 max. Earth dist. 6292 Apr 10 10:35 22°Y1103 0°3030 opposition 6298 Apr 26 07:20 6°83712 8°80147 morning rise 6292 Apr 10 12:40 22°Y1170 31.0380 AU minim Earth dist. 6290 Apr 26 07:20 6°83712 8°50714 direct 6292 Apr 26 12:10:14 24°Y1210 0°3030 op	conjunction	6291 Apr 08 18:59	19° Y ′57′18 -0°27′	'39 retrograde	6297 Aug 04 17:35	5° 8 48'31
moming rise G.291 Apr 24 04:41 20°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	minimum elong	6291 Apr 08 18:59	19° Ƴ 57'18 0°27'	'40 opposition	6297 Oct 24 04:52	4° 8 24'14 -0°48'13
Petrograde G291 Jul 22 16.47 22°°°72°848 cenning set G298 Apr 08 11.20 4°B54"35 Cennin, Earth dist. G291 Oct 10 15:50 21°°70528 2904505 AU conjunction G298 Apr 23 20:41 5°B2923 0°46'20 Green G292 Apr 25 20:55 21°°705'28 Cenning set G292 Apr 25 20:55 21°°705'28 Cenning rise G298 Apr 24 07:24 5°B2923 0°46'20 Gening set G292 Apr 10 05:35 22°°710'32 0°30'30 cenning rise G298 Apr 00 07:52 6°B0'42'3 0°30'40 cenning rise G298 Apr 00 07:52 6°B0'42'3 0°30'40 cenning rise G298 Apr 00 07:52 6°B0'42'3 0°30'40 cenning rise G298 Apr 00 07:54 6°B38'10 22°°710'32 0°30'30 cenning rise G298 Apr 00 07:54 6°B38'10 22°°710'32 0°30'30 cenning rise G299 Apr 10 12:46 6°B38'10 28°65'76 AU cenning rise G292 Apr 10 12:40 23°°718'22 0°34'04 cenning rise G299 Apr 10 12:46 7°B0'74 5°B10'44 6°B38'10 23°°718'32 0°34'04 cenning rise G292 Apr 12 12'04 23°°718'32 0°34'04 cenning rise G299 Apr 12 12'04 23°°718'34 0°33'16 cenning rise G299 Apr 26 07:20 7°84'23'3 0°48'45 cenning set G293 Apr 12 16'04 24°°72'34 0°33'16 cenning rise G299 Apr 26 07:20 7°84'23'3 0°48'45 cenning rise G293 Apr 12 16'04 24°°72'34 0°33'16 cenning rise G299 Apr 26 07:20 7°84'23'3 0°48'45 cenning rise G293 Apr 12 16'04 24°°72'34 0°33'16 cenning rise G299 Apr 26 07:20 7°84'23'3 0°48'16'3 cenning rise G293 Apr 12 16'04 24°°72'34 0°33'16 cenning rise G299 Apr 26 07:20 7°84'23'3 0°48'16'3 cenning rise G299 Apr 26 07:20 7°84'23'3 0°48'16'3 cenning rise G299 Apr 26 07:20 7°84'23'3 cenning rise G299 Apr 26 07:20 cenning rise G299 Apr 26 07:20 cenning rise G299 Apr	max. Earth dist.	6291 Apr 09 00:39	19° Υ 57'50 31.04	1972 AU min. Earth dist.	6297 Oct 23 18:12	4° 8 24'58 28.97528 AU
opposition 6291 Oct 10 12:34 21°9°0°50°S 0°91°O°4 0°90°S 20°1°O°4 0°90°S	morning rise	6291 Apr 24 04:41	20° Ƴ 32′08	direct	6298 Jan 11 07:37	3° 8 00'51
min. Earth dist. 6291 Oct 10 15:50 21°0°528 29.04505 AU conjunction 6298 Apr 23 20:41 5°82923 0°46207 evening set evening set evening set evening set evening set evening set 6292 Apr 12 05:55 21°0°13550 minimum clong 6298 Apr 10 05:43 22°0°1032 0°3029 retrograde 6298 Aug 0° 07:51 8°800473 0°800473 0°800473 0°90074 6°804073 0°80074 0°80074 0°80074 0°80074 0°80074 0°80074 0°80074 0°80074 0°80071 0°80077 0°80074 0°84074 0°84874 0°84874 0°81074 0°84874 0°84874 0°80074 0°8487	retrograde	6291 Jul 22 16:47	22° Y 28'48	evening set	6298 Apr 08 11:20	4° 8 54'35
Minimum clong G29 A Pr 23 20:41 5° 82'923 0°46'22 0°46'22 0°46'22 0°46'22 0°46'22 0°46'22 0°46'22 0°46'23 0°46'22 0°46'23 0°46'24 0°46'24 0°46'3	opposition	6291 Oct 10 21:34	21° Υ '05'05 -0°31'	'04	•	
Conjunction C292 Mar 25 20.55 21°V3575 max. Earth dist. C298 May 09 07.52 C700 May 09 07.52	min. Earth dist.	6291 Oct 10 15:50	21° Y °05'28 29.04	505 AU conjunction	6298 Apr 23 20:41	5° 8 29'23 -0°46'20
conjunction 6292 Apr 10 05:34 22°°P1032 -0°3029 retrograde 6298 Aug 07 05:18 8°B01473 minimum clong 6292 Apr 10 05:34 22°°P1032 -0°3029 retrograde 6298 Aug 07 05:18 8°B01473 -0°5051 max. Earth dist. 6292 Apr 10 12:09 22°°P1110 31.03980 AU min. Earth dist. 6298 Oct 26 07:28 6°B3810 28.96576 AU retrograde 6292 Jul 21 04:14 24°°P4210 cevening set 6299 Apr 10 21:46 7°B0748 opposition 6292 Oct 12 10:41 23°°P1822 -0°3404 cevining set 6299 Apr 26 07:20 7°E4237 -0°4845 direct 6292 Dec 30 20:44 21°°P5305 min. Earth dist. 6299 Apr 26 07:20 7°E4237 -0°4845 evening set 6293 Mar 28 07:28 23°°P4905 min. Earth dist. 6299 Apr 26 07:20 7°E4237 -0°4845 conjunction 6293 Apr 12 16:04 24°°P2348 -0°3315 retrograde 6299 Apr 26 07:20 7°E4237 -0°4845 max. Earth dist. 6293 Apr 12 16:04 24°°P2348 -0°3316 opposition 6299 Apr 26 07:20 7°E4237 -0°4874 max. Earth dist. 6293 Apr 12 16:04 24°°P2348 -0°3	direct	6291 Dec 29 07:15	19° Ƴ 41'47	minimum elong	6298 Apr 23 20:41	5° 8 29'23 0°46'22
conjunction 6292 Apr 10 05:34 22°°P1032 -0°3029 retrograde 6298 Aug 07 05:18 8°B01473 minimum clong 6292 Apr 10 05:34 22°°P1032 -0°3029 retrograde 6298 Aug 07 05:18 8°B01473 -0°5051 max. Earth dist. 6292 Apr 10 12:09 22°°P1110 31.03980 AU min. Earth dist. 6298 Oct 26 07:28 6°B3810 28.96576 AU retrograde 6292 Jul 21 04:14 24°°P4210 cevening set 6299 Apr 10 21:46 7°B0748 opposition 6292 Oct 12 10:41 23°°P1822 -0°3404 cevining set 6299 Apr 26 07:20 7°E4237 -0°4845 direct 6292 Dec 30 20:44 21°°P5305 min. Earth dist. 6299 Apr 26 07:20 7°E4237 -0°4845 evening set 6293 Mar 28 07:28 23°°P4905 min. Earth dist. 6299 Apr 26 07:20 7°E4237 -0°4845 conjunction 6293 Apr 12 16:04 24°°P2348 -0°3315 retrograde 6299 Apr 26 07:20 7°E4237 -0°4845 max. Earth dist. 6293 Apr 12 16:04 24°°P2348 -0°3316 opposition 6299 Apr 26 07:20 7°E4237 -0°4874 max. Earth dist. 6293 Apr 12 16:04 24°°P2348 -0°3	evening set	6292 Mar 25 20:55	21° Υ 35'50	_	1	5° 8 30'24 30.97007 AU
conjunction 6292 Apr 10 05:35 22°Y1032 0°30'29 retrograde opposition of 6298 Aug 07 05:18 8°80147 max. Earth dist. 6292 Apr 10 12:09 22°Y11'01 31 01:3080 AU min. Earth dist. 6292 Apr 25 15:21 22°Y12'10 13 10:3080 AU min. Earth dist. 6292 Apr 10 12:09 28°9576 AU morning rise 6292 Apr 25 15:21 22°Y42'10 congression 6299 Apr 10 21:46 7*80'748 opposition 6292 Cot 12 10:41 23°Y18'21 congression 6299 Apr 20 60:20 7*84'237 congression min. Earth dist. 6292 Dec 30 20:44 23°Y18'21 congression 6299 Apr 26 07:20 7*84'237 congression evening set 6293 Mar 28 07:28 23°Y4'85'5 minimum elong 6299 Apr 26 07:20 7*84'237 congression conjunction 6293 Apr 12 16:04 24°Y2'348 congression 6299 Apr 26 07:20 7*84'237 congression minimum elong 6293 Apr 12 16:04 24°Y2'348 congression 6299 Apr 26 07:20 7*84'237 congression conjunction 6293 Apr 12 16:04 24°Y2'348 congression 6299 Apr 26 07:20 7*84'237 congression minimum elong 6293 Apr 12 16:05 24°Y2'348 congression 6293 Apr 20 07:20	8					-
minimum elong	conjunction	6292 Apr 10 05:35	22°Υ10'32 -0°30'	•	•	
max. Earth dist. 6.292 Apr 10 12:09 22°V11'10 31.03980 AU min. Earth dist. direct 6.298 Oct 26 07:28 6'83'10 28.96576 AU direct 6°W38'10 28.96576 AU direct 6.290 Jan 13 18:47 5'8'14'04 5°W14'04 5'8'14'04 5°W14'04 5'8'14'04 5°W14'04 5'8'14'04 6°W38'10 28.96576 AU direct 6.299 Jan 13 18:47 5'8'14'04 5°W14'04 5'8'14'04 6°W38'10 21.04'10' 21'8'05'05'05 6.299 Apr 10 21:46 5'8'14'04 5°W14'04 5'8'14'04 6.290 Apr 20 07:20 7'8'04'23' 0'48'45 6.293 Apr 28 00'24 21'8'05'50'5 6.293 Apr 28 00'24 21°W550'5 6.293 Apr 28 00'34' 0'48'47 6.293 Apr 28 00'48' 0'48'47 6.293 Apr 28 00'48' 0'48'47 6.299 Apr 20 0'7:20 7'8'04'23' 0'48'47 7°W44'34' 0'48'47 6.293 Apr 18 18:46 8°W1738 7°W44'34' 0'48'47 6.293 Apr 18 18:46 8°W51738 7°W44'34' 0'93'15 6.299 Apr 20 0'72' 0'79' 0'48'37 7°W44'34' 0'48'47 6.299 Apr 20 0'72' 0'79' 0'48'47 7°W44'34' 0'93'15 6.299 Apr 20 0'72' 0'79' 0'48'47 7°W44'34' 0'93'15 6.299 Apr 20 0'72' 0'79' 0'48'47 8°W51738	•	*		C	•	
morning rise 6292 Apr 25 15:21 22°V45'23 direct 6299 Apr 10 21:46 7°80'748 opposition 6292 Oct 12 10:41 23°V18'22 0°34'04 evening set 6299 Apr 10 21:46 7°80'748 min. Earth dist. 6292 Oct 12 10:33 23°V18'22 0°34'04 minimum clore 6299 Apr 26 07:20 7°84'237 0°48'45 direct 6292 Dec 30 20:44 21°V5'50'5 minimum clore 6299 Apr 26 07:20 7°84'23'7 0°48'45 evening set 6293 Mar 28 07:28 23°V49'05 max. Earth dist. 6299 Apr 26 07:20 7°84'23'4 0°48'47 conjunction 6293 Apr 12 16:04 24°V2'34'8 0°33'15 retrograde 6299 May 11 18:48 8°81'738 conjunction 6293 Apr 12 16:04 24°V2'34'8 0°33'16 opposition 6299 Oct 29 07:14 8°85'047 10°5'324 max. Earth dist. 6293 Apr 12 22:10 24°V2'43'3 31.02852 AU min. Earth dist. 6290 Ct 29 07:14 8°85'17'38 8°85'17'38 morning rise 6293 Apr 28 02:11 24°V2'43'31 0'328'24 direct 6300 Apr 13 08:25 9°82'11'1 opposition 6293 Ct 14 17:12 25°V3'13'0<	· ·	-		* *		-
retrograde 6292 Jul 24 04:51 24°Y42'10 evening set 6299 Apr 10 21:46 7°B07'48 opposition 6292 Oct 12 10:41 23°Y18'22 -0°34'04 min. Earth dist. 6292 Oct 2 12 03:39 23°Y18'51 29.034'04 cevening set 6292 Dec 30 20:44 21°Y55'05 minimum elong 6299 Apr 26 07:20 7°B4'23' 0°48'45 evening set 6293 Mar 28 07:28 23°Y49'05 max. Earth dist. 6299 Apr 26 18:53 7°B4'32 30.96119 AU evening set 6293 Apr 12 16:04 24°Y23'48 0°33'15 retrograde 6299 Aug 11 18:48 8°B17'38 minimum elong 6293 Apr 12 16:04 24°Y23'48 0°33'16 opposition 6299 Oct 29 07:14 8°B5'04' 0°53'24 max. Earth dist. 6293 Apr 12 12:10 24°Y23'48 0°33'16 opposition 6299 Oct 29 07:14 8°B5'04' 0°53'24 morning rise 6293 Apr 28 02:11 24°Y5'84'1 direct 6300 Apr 13 08:25 9°B2'11' opposition 6293 Oct 15 00:07 25°Y3'140 0°37'01 min. Earth dist. 6293 Apr 12 16:04 24°Y0'82'1 evening set 6300 Apr 13 08:25 9°B2'11' opposition 6293 Oct 15 00:07 25°Y3'140 0°37'01 min. Earth dist. 6294 Apr 30 17:41 26°Y0'82'1 max. Earth dist. 6300 Apr 13 08:25 9°B2'11' opposition 6294 Apr 30 17:41 26°Y0'82'1 max. Earth dist. 6300 Apr 28 18:06 9°B5'602 0°5'10'9 evening set 6294 Apr 30 17:41 26°Y0'82'1 max. Earth dist. 6300 Apr 28 18:06 9°B5'602 0°5'10'9 minimum elong 6294 Apr 15 02:34 26°Y37'01 0°35'59 retrograde 6300 Apr 28 18:06 9°B5'602 0°5'10'9 minimum elong 6294 Apr 15 02:34 26°Y37'01 0°36'01 opposition 6300 Opt 31 20:24 11°B0'42' 0°55'53 max. Earth dist. 6294 Apr 30 12:44 27°Y11'55 direct 6301 Jan 18 16:46 9°B4'10' 28'94'11' 0°55'53 min. Earth dist. 6294 Oct 17 05:35 27°Y4'45'3 0°39'44 minimum elong 6301 Apr 28 10:40 11'B0'42' 0°55'53 min. Earth dist. 6294 Oct 17 05:35 27°Y4'45'3 0°39'44 minimum elong 6301 Apr 10 5:02 12°B0'40 0°53'24 direct 6295 Jan 04 22:20 26°Y3'15 0°38'40 minimum elong 6301 Apr 10 5:02 12°B0'40 0°53'24 direct 6295 Jan 04 22:20 28°Y6'503 0°38'40 minimum elong 6301 Apr 10 5:02 12°B0'40 0°53'124 minimum elong 6295 Apr 17 13:00 28°Y5'09 0°38'40 minimum elong 6301 Apr 10 5:02 12°B0'40 0°53'124 minimum elong 6295 A		-				. •
opposition 6292 Oct 12 10:41 23°Y18'22 -0°34'04 conjunction 6299 Apr 26 07:20 7°842'37 -0°48'45 direct 6292 Dec 30 20:44 21°Y5'50'5 minimum elong 6299 Apr 26 07:20 7°842'37 -0°48'45 evening set 6293 Mar 28 07:28 23°Y49'05 - max. Earth dist. 6299 May 11 18:48 8°81'738 conjunction 6293 Apr 12 16:04 24°Y23'48 -0°33'15 retrograde 6299 May 09 19:25 10°815'10 max. Earth dist. 6293 Apr 12 21:01 24°Y23'48 -0°33'16 opposition 6299 Aug 09 19:25 10°815'10 max. Earth dist. 6293 Apr 12 21:02 24°Y23'48 -0°33'16 opposition 6299 Aug 09 19:25 10°815'10 max. Earth dist. 6293 Apr 12 21:01 24°Y23'43 -0°33'16 opposition 6299 Oct 28 18:46 8°85'178 -0°32'4 morning rise 6293 Apr 28 02:11 24°Y58'41 direct 6300 Jan 16 06:33 7°82'171 -0°35'18 retrograde 6293 Lil 26 18:15 26°Y3'78'10 0°37'10 0°37'10 0°37'10 0°37'10 0°30'10 0°30'10 0°30'10 0°30'10 0°30'10	•	_				-
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		_				
6295 May 19 08:15 0°5 evening set 6302 Apr 18 05:50 13°548'39	morning rise	•				
		0293 May 19 08:15	0~0	evening set	0302 Apr 18 05:50	13~048.39

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conjunction	6302 May 03 15:52	14° 8 23'32 -0°			6308 Jul 23 22:21	0°II	
minimum elong	6302 May 03 15:52	14° 8 23'32 0'		retrograde	6308 Aug 30 16:07	0° Ⅱ 23'08	
max. Earth dist.	6302 May 04 04:57	14° 8 24'47 30	0.93862 AU		6308 Oct 08 11:29	30° ₹ 8	
morning rise	6302 May 19 04:17	14° 8 58'40		opposition	6308 Nov 19 06:02	28° 8 58'18	
	6302 May 19 18:47	15° 8		min. Earth dist.	6308 Nov 18 13:40	_	28.87858 AU
retrograde	6302 Aug 17 13:05	16° 8 56'36		direct	6309 Feb 05 17:07	27° 8 34'59	
opposition	6302 Nov 05 22:59	15° 8 32'09 -1'	°00'36	evening set	6309 May 03 11:36	29° 8 28'35	
min. Earth dist.	6302 Nov 05 09:31	15° 8 33'05 28	8.93539 AU		6309 May 17 09:14	Π $\circ 0$	
	6302 Nov 25 23:50	15° ₹8					
direct	6303 Jan 23 17:33	14° 8 08'58		conjunction	6309 May 18 23:29	0° Ⅱ 03'38	-1°08'31
	6303 Mar 20 12:27	15° 8		minimum elong	6309 May 18 23:29	0° Ⅱ 03'38	1°08'33
evening set	6303 Apr 20 16:44	16° 8 02'43		max. Earth dist.	6309 May 19 15:50	0° Ⅲ 05′11	30.87344 AU
				morning rise	6309 Jun 03 14:10	0° Ⅲ 38'57	
conjunction	6303 May 06 03:10	16° 8 37'39 -0')°57'43	retrograde	6309 Sep 02 04:42	2° Ⅱ 37'26	
minimum elong	6303 May 06 03:10	16° 8 37'39 0')°57'44	opposition	6309 Nov 21 19:09	1° Ⅱ 12'31	-1°14'04
max. Earth dist.	6303 May 06 17:43	16° 8 39'02 30	0.93122 AU	min. Earth dist.	6309 Nov 21 03:10	1° Ⅱ 13'37	28.86983 AU
morning rise	6303 May 21 15:42	17° 8 12'48			6310 Jan 13 16:10	30° ₹ 8	
retrograde	6303 Aug 20 01:32	19° 8 10'51		direct	6310 Feb 08 02:59	29° 8 49'10	
opposition	6303 Nov 08 12:06	17° 8 46'24 -1'	°02'49		6310 Mar 05 07:42	$\Pi^{\circ}0$	
min. Earth dist.	6303 Nov 07 21:59	17° 8 47'22 28	8.92765 AU	evening set	6310 May 05 22:38	1° Ⅱ 42'44	
direct	6304 Jan 26 06:47	16° 8 23'13		•	·		
evening set	6304 Apr 22 03:56	18° 8 17'00		conjunction	6310 May 21 10:58	2° Ⅱ 17'48	-1°09'59
Č	1	_		minimum elong	6310 May 21 10:58	2° Ⅱ 17'48	1°10'01
conjunction	6304 May 07 14:25	18° 8 51'56 -0')°59'45	max. Earth dist.	6310 May 22 04:41		30.86537 AU
minimum elong	6304 May 07 14:25	18° 8 51'56 0'		morning rise	6310 Jun 06 01:55	2° I 53'09	
max. Earth dist.	6304 May 08 04:12	18° 8 53'15 30		retrograde	6310 Sep 04 18:18	4° ∏ 51'40	
morning rise	6304 May 23 03:26	19° 8 27'08	0.92307 110	opposition	6310 Nov 24 08:03	3° П 26'42	-1°15'34
retrograde	6304 Aug 21 15:00	21° 8 25'18		min. Earth dist.	6310 Nov 23 14:27		28.86244 AU
min. Earth dist.	6304 Nov 09 11:08	20° 8 01'46 28	8 01008 ATT	direct	6311 Feb 10 16:29	2° I 103'20	20.00244710
opposition	6304 Nov 10 01:26	20° 8 00'47 -1'		evening set	6311 May 08 10:02	3° ∏ 56'54	
direct	6305 Jan 27 17:53	18° 8 37'37	. 0437	evening set	0311 Way 06 10.02	3 113034	
evening set	6305 Apr 24 14:56	20° 8 31'22		conjunction	6311 May 23 22:32	4° Ⅱ 31'59	-1°11'20
evening set	0303 Apr 24 14.30	20 031 22		minimum elong	6311 May 23 22:32	4° Ⅱ 31'59	
agniumation	6205 May 10, 01:49	21° 8 06'21 -1'	001142	max. Earth dist.	6311 May 24 15:56		30.85867 AU
conjunction	6305 May 10 01:48	21°806'21 -1			6311 Jun 08 14:01	5° П 07'22	30.83807 AU
minimum elong max. Earth dist.	6305 May 10 01:48	21° 8 00'21 1		morning rise		7° П 05'56	
	6305 May 10 16:49		0.91383 AU	retrograde	6311 Sep 07 09:01	7 П 03 36 5° П 40'55	101650
morning rise	6305 May 25 14:58	21° 8 41'34		opposition	6311 Nov 26 20:54		28.85656 AU
retrograde	6305 Aug 24 02:14	23° 8 39'49	00/150	min. Earth dist.	6311 Nov 26 03:25		28.83636 AU
opposition	6305 Nov 12 14:47	22°815'15 -1'		direct	6312 Feb 13 03:34	4° Ⅱ 17'33	
min. Earth dist.	6305 Nov 12 00:29	22° 8 16'14 28	8.90932 AU	evening set	6312 May 09 21:17	6° Ⅱ 11'07	
direct	6306 Jan 30 06:42	20° 8 52'04					
evening set	6306 Apr 27 02:08	22° 8 45'47		conjunction	6312 May 25 10:18	6° Ⅱ 46'14	
				minimum elong	6312 May 25 10:18	6° Ⅱ 46'14	
conjunction	6306 May 12 13:12	23° 8 20'46 -1'		max. Earth dist.	6312 May 26 05:22		30.85343 AU
minimum elong	6306 May 12 13:11	23° 8 20'46 1'		morning rise	6312 Jun 10 01:59	7° Ⅱ 21'38	
max. Earth dist.	6306 May 13 03:45	23° 8 22'09 30	0.90378 AU	retrograde	6312 Sep 08 21:32	9° Ⅱ 20'16	
morning rise	6306 May 28 02:50	23° 8 56'01		opposition	6312 Nov 28 09:45	7° Ⅱ 55'14	
retrograde	6306 Aug 26 16:27	25° 8 54'20		min. Earth dist.	6312 Nov 27 15:17		28.85190 AU
opposition	6306 Nov 15 03:57	24° 8 29'41 -1'		direct	6313 Feb 14 16:28	6° Ⅱ 31'53	
min. Earth dist.	6306 Nov 14 12:41	24° 8 30'44 28	8.89901 AU	evening set	6313 May 12 08:42	8° Ⅱ 25'27	
direct	6307 Feb 01 17:56	23° 8 06'28					
evening set	6307 Apr 29 13:14	25° 8 00'08		conjunction	6313 May 27 21:53	9° Ⅱ 00'35	
				minimum elong	6313 May 27 21:53	9° Ⅱ 00'35	
conjunction	6307 May 15 00:37	25° 8 35'08 -1'		max. Earth dist.	6313 May 28 16:31		30.84939 AU
minimum elong	6307 May 15 00:37	25° 8 35'08 1'		morning rise	6313 Jun 12 14:07	9° Ⅱ 36′02	
max. Earth dist.	6307 May 15 16:03	25° 8 36'36 30	0.89321 AU	retrograde	6313 Sep 11 12:12	11° Ⅱ 34'44	
morning rise	6307 May 30 14:34	26° 8 10'25		opposition	6313 Nov 30 22:44	10° Ⅱ 09'41	
retrograde	6307 Aug 29 02:59	28° 8 08'47		min. Earth dist.	6313 Nov 30 03:57		28.84841 AU
opposition	6307 Nov 17 17:08	26° 8 44'02 -1°		direct	6314 Feb 17 03:39	8° Ⅱ 46′21	
min. Earth dist.	6307 Nov 17 02:18	26° 8 45'04 28	8.88849 AU	evening set	6314 May 14 20:12	10° Ⅱ 39'56	
direct	6308 Feb 04 05:39	25° 8 20'46					
evening set	6308 May 01 00:23	27° 8 14'24		conjunction	6314 May 30 09:52	11° Ⅱ 15′06	-1°14'44
				minimum elong	6314 May 30 09:52	11° Ⅱ 15′06	1°14'47
conjunction	6308 May 16 12:04	27° 8 49'25 -1'	°06'58	max. Earth dist.	6314 May 31 05:58	11° II 17'01	30.84619 AU
minimum elong	6308 May 16 12:04	27° 8 49'25 1'	°07'00	morning rise	6314 Jun 15 02:22	11° Ⅱ 50'35	
max. Earth dist.	6308 May 17 04:01	27° 8 50'56 30	0.88293 AU	retrograde	6314 Sep 14 00:56	13° Ⅱ 49'21	
morning rise	6308 Jun 01 02:20	28° 8 24'43		opposition	6314 Dec 03 11:36	12° Ⅱ 24'18	-1°20'25

min. Earth dist.	6314 Dec 02 16:50	12° Ⅱ 25'36 28.84546 AU	marning rise	6221 Jun 20 10:42	27° Ⅲ 35'31
direct	6315 Feb 19 16:32	12 II 23 36 28.84346 AU 11° II 01'00	morning rise	6321 Jun 30 19:43 6321 Sep 29 21:40	27 Ⅲ 3331 29° Ⅲ 34'27
evening set	6315 May 17 07:57	11 Д 0100 12° Д 54'36	retrograde min. Earth dist.	6321 Dec 18 09:38	28° I 10'36 28.81437 AU
evening set	0313 Way 17 07.37	12 113430	opposition	6321 Dec 19 05:08	28° I 10'30 28.81437 AC
conjunction	6315 Jun 01 21:55	13° Ⅱ 29'48 -1°15'38	direct	6322 Mar 07 02:16	26° I 45'47
minimum elong	6315 Jun 01 21:55	13° П 29'48 1°15'41	evening set	6322 Jun 01 19:59	28° I [39'23
max. Earth dist.	6315 Jun 02 17:26	13° I (31'39 30.84341 AU	evening set	0322 Juli 01 17.37	20 113723
morning rise	6315 Jun 17 14:57	14° I I05'19	conjunction	6322 Jun 17 12:45	29° Ⅱ 14'46 -1°18'44
retrograde	6315 Sep 16 15:39	16° I I04'08	minimum elong	6322 Jun 17 12:45	29° I 14'46 1°18'47
min. Earth dist.	6315 Dec 05 05:02	14° Д 40'27 28.84264 AU	max. Earth dist.	6322 Jun 18 08:46	29° I I16'40 30.81180 AU
opposition	6315 Dec 06 00:29	14° I 39'07 -1°21'20	morning rise	6322 Jul 03 08:48	29°II50'28
direct	6316 Feb 22 03:55	13° I 15'49	morning 1100	6322 Jul 07 16:58	0.20 20.20
evening set	6316 May 18 19:49	15° Ⅱ 09'27	retrograde	6322 Oct 02 12:44	1°549'24
e venning see	0510111111 10 15.15	10 20,2,	opposition	6322 Dec 21 17:36	0°\$24'10 -1°24'11
conjunction	6316 Jun 03 10:09	15° Ⅱ 44'41 -1°16'26	min. Earth dist.	6322 Dec 20 22:05	0°\$25'31 28.81108 AU
minimum elong	6316 Jun 03 10:09	15° I I44'41 1°16'29	mm. Darm dige.	6323 Jan 05 08:47	30°RⅡ
max. Earth dist.	6316 Jun 04 06:11	15° I I46'35 30.84023 AU	direct	6323 Mar 09 13:50	29° Ⅱ 00'40
morning rise	6316 Jun 19 03:29	16° I I20'13	anov	6323 May 08 19:32	0.2
retrograde	6316 Sep 18 03:01	18° Ⅱ 19'06	evening set	6323 Jun 04 08:05	0° 9 54'17
opposition	6316 Dec 07 13:25	16° I 54'05 -1°22'07	evening sec	03 2 3 0 111 0 1 00.00	0 2011,
min. Earth dist.	6316 Dec 06 18:47	16° Д 55'22 28.83918 AU	conjunction	6323 Jun 20 01:26	1°529'42 -1°18'42
direct	6317 Feb 23 15:25	15° Ⅲ 30'48	minimum elong	6323 Jun 20 01:26	1°529'42 1°18'44
evening set	6317 May 21 07:47	17° I I24′26	max. Earth dist.	6323 Jun 20 22:45	1°S31'43 30.80907 AU
e venning see	0317 May 21 07.17	17 12120	morning rise	6323 Jul 05 21:47	2°905'26
conjunction	6317 Jun 05 22:33	17° I 59'42 -1°17'07	retrograde	6323 Oct 05 02:04	4°\$04'20
minimum elong	6317 Jun 05 22:33	17° I I59'42 1°17'09	min. Earth dist.	6323 Dec 23 10:29	2°540'27 28.80901 AU
max. Earth dist.	6317 Jun 06 18:26	18° Д 01'35 30.83646 AU	opposition	6323 Dec 24 06:03	2°\$39'06 -1°24'06
morning rise	6317 Jun 21 16:18	18° I 35'16	direct	6324 Mar 11 03:22	1° © 15'36
retrograde	6317 Sep 20 17:00	20° I [34'11	evening set	6324 Jun 05 20:16	3° © 09'13
min. Earth dist.	6317 Dec 09 06:45	19° Д 10'30 28.83494 AU	evening sec	032.04 05 20.10	3 30,13
opposition	6317 Dec 10 02:18	19° Д 10'90 -1°22'46	conjunction	6324 Jun 21 13:57	3°544'40 -1°18'33
direct	6318 Feb 26 02:55	17° I I45'51	minimum elong	6324 Jun 21 13:57	3°544'40 1°18'36
evening set	6318 May 23 19:48	19° Ⅲ 39′29	max. Earth dist.	6324 Jun 22 10:42	3°546'38 30.80778 AU
e venning see	0510 May 25 17.10	1) 13,2)	morning rise	6324 Jul 07 10:49	4°\$20'25
conjunction	6318 Jun 08 10:54	20° Ⅲ 14'47 -1°17'40	retrograde	6324 Oct 06 16:17	6°S19'20
minimum elong	6318 Jun 08 10:54	20° I 14'47 1°17'43	opposition	6324 Dec 25 18:25	4°954'05 -1°23'52
max. Earth dist.	6318 Jun 09 06:30	20° I 16'38 30.83170 AU	min. Earth dist.	6324 Dec 24 22:05	4°955'30 28.80843 AU
morning rise	6318 Jun 24 05:10	20°II50'22	direct	6325 Mar 13 14:59	3°930'35
retrograde	6318 Sep 23 05:33	22°II49'19	evening set	6325 Jun 08 08:31	5° © 24'13
opposition	6318 Dec 12 15:16	21° II 24'14 -1°23'19	evening set	0323 Juli 00 00.31	3 324 13
min. Earth dist.	6318 Dec 11 20:51	21° I I25'31 28.82982 AU	conjunction	6325 Jun 24 02:41	5°\$59'42 -1°18'16
direct	6319 Feb 28 13:03	20°II00'55	minimum elong	6325 Jun 24 02:41	5°S59'42 1°18'19
evening set	6319 May 26 07:49	21°II54'32	max. Earth dist.	6325 Jun 25 00:11	6°501'44 30.80780 AU
evening set	0317 Way 20 07.47	21 113432	morning rise	6325 Jul 09 23:56	6°935'29
conjunction	6319 Jun 10 23:28	22° Ⅲ 29'51 -1°18'07	retrograde	6325 Oct 09 04:11	8°934'23
minimum elong	6319 Jun 10 23:28	22° I [29'51 1°18'09	min. Earth dist.	6325 Dec 27 11:07	7°S10'33 28.80909 AU
max. Earth dist.	6319 Jun 11 19:39	22° I 31'46 30.82635 AU	opposition	6325 Dec 28 06:52	7°509'10 -1°23'30
morning rise	6319 Jun 26 18:04	23° I I05'28	direct	6326 Mar 16 02:41	5° 9 45'41
retrograde	6319 Sep 25 18:53	25° I I04'25	evening set	6326 Jun 10 20:48	7° © 39'20
min. Earth dist.	6319 Dec 14 08:28	23° II 40'38 28.82425 AU	v. v		
opposition	6319 Dec 15 03:48	23° I [39'18 -1°23'43	conjunction	6326 Jun 26 15:28	8°914'51 -1°17'52
direct	6320 Mar 02 02:28	22° I 15'55	minimum elong	6326 Jun 26 15:28	8°\$14'51 1°17'55
evening set	6320 May 27 19:57	24° I 109'32	max. Earth dist.	6326 Jun 27 12:56	8°\$16'53 30.80910 AU
e venning see	0020 11149 27 15.07	2. 20, 52	morning rise	6326 Jul 12 13:12	8°950'40
conjunction	6320 Jun 12 11:52	24° ∏ 44'53 -1°18'26	retrograde	6326 Oct 11 19:02	10° 5 49'33
minimum elong	6320 Jun 12 11:52	24° I	opposition	6326 Dec 30 19:09	9°\$24'22 -1°23'01
max. Earth dist.	6320 Jun 13 07:16	24° I I46'43 30.82079 AU	min. Earth dist.	6326 Dec 29 22:29	9°\$25'49 28.81071 AU
morning rise	6320 Jun 28 07:02	25° I [20'31	direct	6327 Mar 18 14:14	8°900'54
retrograde	6320 Sep 27 09:01	27° I 19'28	evening set	6327 Jun 13 09:24	9° 9 54'35
opposition	6320 Dec 16 16:33	25° I I54'18 -1°24'00	c.c.img set	002, tun 15 07.24	, =0.55
min. Earth dist.	6320 Dec 15 21:50	25° I 55'36 28.81896 AU	conjunction	6327 Jun 29 04:27	10°\$30'08 -1°17'21
direct	6321 Mar 04 13:25	24° I 30'52	minimum elong	6327 Jun 29 04:27	10°930'08 1°17'23
evening set	6321 May 30 07:48	24 H30 32 26°H24'29	max. Earth dist.	6327 Jun 30 01:41	10°530'08 1 1723 10°532'08 30.81091 AU
evening set	5521 May 50 07.40	20 11272)	morning rise	6327 Jul 15 02:39	11°505'58
conjunction	6321 Jun 15 00:17	26° Ⅱ 59'51 -1°18'39	retrograde	6327 Oct 14 06:55	13°504'52
minimum elong	6321 Jun 15 00:17	26° I 59'51 1°18'41	•	6328 Jan 02 07:26	13°939'43 -1°22'23
max. Earth dist.	6321 Jun 15 00:17 6321 Jun 15 21:03	26°Д39'31 1°18'41 27°Д01'49 30.81580 AU	opposition min. Earth dist.	6328 Jan 02 07:26 6328 Jan 01 12:05	11°9541'05 28.81268 AU
max. Earm uist.	0321 Juli 13 21.03	2/ H0149 30.01300 AU	mm. Latul uist.	0520 Jan 01 12.03	11 -7103 20.01200 AU

Second 1928 1928 1929	direct	6328 Mar 20 00:14	10°916'15	retrograde	6334 Oct 30 03:39	28°951'51
	evening set	6328 Jun 14 22:02	12° © 09'59	opposition	6335 Jan 17 20:16	27° 5 26'39 -1°14'37
minimathong M238 lu 30 17.58 M25473 17.646 moningrice M238 lu 16 16.09 M254721 moningrice M238 lu 16 16.09 M254721 moningrice M238 lu 16 16.09 M254721 moningrice M238 lu 16 16.09 M25471 moningrice M238 lu 16 16.09 M25471 moningrice M238 lu 16 16.09 M25471 moningrice M238 lu 16 M25471 moningrice M238 lu 17 14.48 M254221 M25471 moningrice M238 lu 17 14.48 M254221 M25471 moningrice M238 lu 17 14.48 M254221 M25471 moningrice M238 lu 17 M2548 M254221 M25471 moningrice M238 lu 17 M2548 M254221 M25471 moningrice M238 lu 17 M2548 M254221 moningrice M238 lu 17 M2548 moni				min. Earth dist.		
max. Earth darf	conjunction				•	
Section G. G. G. G. G. G. G. G	Č			evening set	6335 Jul 01 15:58	27° 9 56'34
Proposition G329 And 19 441 1998511 19735 1989						
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nin Farbidst 6329 Mar 2 2142 1958/5615 284141 AU moming rise 6333 Mar 27 10.3 0°C, 2000 0°C, 20				Č		
March G329 Mar 2 1256 12981145 14982785 14982786 1	**					
Part				morning rise		
conjunction 6329 Jul 80 640				retrograde	•	
	evening set	032) Juli 17 10.40	14 323 20	retrograde		
minimum elong 6329 Jul 03 640 55°901703 191599 min Earth dist 6336 Jun 19 1401 20°921241 28.8151 Jul morning rise 6329 Jul 19 05-46 15°301676 17°303768 18°301676 18	conjunction	6329 Jul 03 06:40	15°901'03 -1°15'58	opposition		
max. Earth dist				* *		
morning rise 6329 Jul 19 0546 5793748 evening set 6356 Jul 27 2340 074 074 170 1	•					
opposition in Earth dist. dist dist.	morning rise	6329 Jul 19 05:46			-	$0^{\circ}\Omega$
min Earth dist	•	6329 Oct 18 09:03	17° © 35'48	evening set	6336 Jul 03 04:54	
Composition	opposition	6330 Jan 06 08:07	16°510'42 -1°20'46	•		
Pevening set 6330 Jun 19 23.37 16 © 26 0 15 17 © 31635 19 15 0 15 19 0 15 0 15 19 0 15 0 15 19 0 15 0 15 19 0 15 0 15 19 0 15 0 15 0 15 19 0 15 0 15 0 15 0 15 0 15 0 15 0 15 0	min. Earth dist.	6330 Jan 05 13:20	16°512'01 28.81540 AU	conjunction	6336 Jul 19 04:08	0° Ω 47'06 -1°07'33
Conjunction G330 Jul 05 2011 17\psil635 18\psil505 18\ps	direct	6330 Mar 24 22:57	14°9547'11	minimum elong	6336 Jul 19 04:08	0° Ω 47'06 1°07'35
Conjunction G.330 Jul 05 20:11 17*\$\text{Pictors} 1*1505	evening set	6330 Jun 19 23:37	16° ≤ 40'58	max. Earth dist.	6336 Jul 19 22:48	0° Ω 48'51 30.81394 AU
minimum elong 6.33 Jul 05 20.11 17.92 167.5 17.50 17.92				morning rise	6336 Aug 04 06:07	1° Ω 23'06
max. Earth dist. G.330 Jul 05 IG-58 17-921823 30.8147 A U mrini Earth dist. G.337 Jun 21 02.55 17-02722 28.81601 A U mroming rise G.330 Jul 21 19.34 17-925229 evening set G.337 Jul 05 17-27 27-02606	conjunction	6330 Jul 05 20:11	17° © 16'35 -1°15'05	retrograde	6336 Nov 03 05:35	3° Ω 21′22
Marchigning rise 6330 Lut 21 19.43 17*95/29 19*95/116 evening set 6337 Jut 05 17.39 2*0,2006 evening set 6331 Jut 08 20:14 18*92/29 28.81527 AU emin. Earth dist. 6331 Jut 27 11.42 17*926/237 evening set 6331 Jut 08 09:30 19*92/29 1*1406 emorning rise 6337 Jut 21 17:27 3*0,00152 190555 evening set 6331 Jut 08 09:30 19*92/29 1*1406 emorning rise 6337 Jut 21 12.31 3*0,0034 3*0,81726 AU emorning rise 6337 Jut 6331 Jut 69 09:30 19*92/29 1*1408 emorning rise 6338 Jut 24 07:16 4*24,0078 1*24,0079 4*4,0078	Č	6330 Jul 05 20:11	17°516'35 1°15'08	opposition	6337 Jan 21 19:40	
Petrogradic G333 Oct 20 21:59 91:595 11:946 11:946				min. Earth dist.	6337 Jan 21 02:55	
opposition 6331 Jan 08 20:124 18*252610 -1*1946 conjunction 6337 Jul 21 17:27 3*Q01*52 1*05755 direct 6331 Jan 08 20:123 18*252729 28 81527 AU conjunction 6337 Jul 21 17:27 3*Q01*52 1*05755 evening set 6331 Jul 22 12:31 3*Q01*52 1*05557 morning rise 6337 Jul 22 12:31 3*Q01*52 1*05557 conjunction 6331 Jul 08 09:30 19*253201 1*14*06 retrograde 6337 Nov 05 18:09 5*Q35668 max. Earth dist. 6331 Jul 09 04:42 19*253201 1*14*08 opposition 6338 Jan 24 07:16 4*Q10*8 1*0934 morning rise 6331 Jul 09 04:42 19*263353 08*1425 AU min. Earth dist. 6331 Jul 09 04:42 2*Q4705 retrograde 6331 Jul 10 1*16 20*2690757 direct 6338 Jul 08 06:46 4*Q10*12 2*R4005 min. Earth dist. 6332 Jul 10 10*16 6332 Jul 10*0*22 20*264248 28*1445 AU conjunction 6338 Jul 24 06:53 5*Q1642 1*04*14 direct 6332 Jul 20*2 20*29 21*264719 1*1300 retrograde 6338 Jul 24 06:53 5*Q1642 1*04*14	•				•	
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minimum elong 6331 Jul 08 09:30 9º⊈32'01 19'14'08 opposition 6338 Jan 24 07:16 4º᠒10'58 -1°09'34 max. Earth dist. 6331 Jul 19 09 04:42 9º⊈33'50 30.8142'5 AU min. Earth dist. 6338 Jan 24 07:16 4º᠒10'58 -1°09'34 min. Earth dist. 6331 Jul 24 09:30 2º20'05'75' evening set 6338 Jul 23 13:42 4º᠒12'12 28.81993 AU min. Earth dist. 6331 Jul 10 8:26 20°⊈34'13 -1°18'40 min. Earth dist. 6332 Jan 11 08:26 20°⊈34'13 -1°18'40 min. Earth dist. 6332 Jan 28 23:34 9º⊈31'754 minimum elong 6338 Jul 24 06:53 5°Д16'42 -1°04'11 direct 6332 Mar 28 23:34 9º⊈31'754 minimum elong 6338 Jul 24 06:53 5°Д16'42 1°04'11 evening set 6332 Jul 09 22:49 21°⊈34'19 -1°13'00 retrograde 6338 Vul 25 00:59 5°Д18'24 30.82186 AU morning rise 6332 Jul 09 22:49 21°⊈34'19 1°13'03 opposition 6339 Jan 26 18:51 6°Д25'8 28.82516 AU morning rise 6332 Jul 25 23:04 22°⊈23'16 direct 6339 Jan 26 18:51 6°Д25'8 28.82516 AU morning rise 6333 Jul 12 20:30 22°⊈55'83 28.81323 AU opposition 6333 Jul 12 12:03 22°⊈55'78 28.81323 AU opposition 6333 Jul 12 12:03 24°⊈50'228 1°11'80 evening set 6339 Jul 10 19:49 6°Д55'48 evening set 6333 Jul 12 12:05 24°⊈50'228 1°11'80 minimum elong 6339 Jul 12 13:36 8°Д0'141 evening rise 6333 Jul 12 12:05 24°⊈50'228 1°11'80 opposition 6339 Jul 12 13:36 8°Д0'141 evening rise 6333 Jul 12 12:05 24°⊈50'228 1°11'80 opposition 6340 Jul 12 08:95 7°Д31'37 1°02'22 evening set 6333 Jul 12 12:05 24°⊈50'228 1°11'80 opposition 6340 Jul 12 08:95 7°Д31'37 1°02'23 evening rise 6333 Jul 12 12:05 24°⊈50'228 1°11'80 opposition 6340 Jul 12 08:95 7°Д31'37 1°02'23 evening rise 6333 Jul 12 12:05 24°⊈50'228 1°11'80 opposition 6340 Jul 12 08:95 7°Д31'37 1°02'23 evening rise 6333 Jul 12 12:05 24°⊈50'228 1°11'80 opposition 6340 Jul 12 08:95 7°Д46'41 1°00'26 evening set 6334 Jul	aaniunatian	6221 Jul 09 00:20	100622101 1014106	-	=	
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retrograde 6331 Oct 23 12:25 22°\$06'39 evening set 6338 Jul 08 06:46 4°\$04'054 opposition 6332 Jan 11 08:26 20°\$24'131 -1°18'40 min. Earth dist. 6332 Jan 10 14:16 20°\$42'48 28.81445 AU conjunction 6338 Jul 24 06:53 5°\$\text{0.1642} 1"04'11 direct 6332 Mar 28 23:34 19°\$\text{0.1754} 1"09'1754 minimum elong 6338 Jul 24 06:54 5°\$\text{0.1642} 1"04'14 evening set 6332 Jul 24 01:20 21°\$\text{0.1754} 1"09'1754 minimum elong 6338 Jul 24 06:55 5°\$\text{0.1642} 1"04'14 evening set 6332 Jul 09 22:49 21°\$\text{0.1754} 1"13'130 opposition 6338 Jul 25 00:59 5°\$\text{0.1824} 30.82186 AU morning rise 6338 Nul 25 00:59 5°\$\text{0.1824} 30.82186 AU morning rise 6338 Nul 25 00:59 5°\$\text{0.1824} 30.82186 AU morning rise 6338 Nul 25 00:59 5°\$\text{0.1824} 5"07'39 max. Earth dist. 6332 Jul 10 18:48 21°\$\text{0.1824} 1"03'03 opposition 6339 Jan 26 02:20 6°\$\text{0.1826} 6"\text{0.1826} 5"0.8136 AU min. Earth dist. 6339 Jan 26 02:20 6°\$\text{0.1826} 5"0.8136 AU min. Earth dist. 6339 Jul 10 19:49 6°\$\text{0.1826} 5"0.8136 AU min. Earth dist. 6339 Jul 10 19:49 6°\$\text{0.1826} 5"0.8136 AU min. Earth dist. 6339 Jul 10 19:49 6°\$\text{0.1826} 5"0.8136 AU min. Earth dist. 6339 Jul 10 19:49 6°\$\text{0.1826} 5"0.8136 AU min. Earth dist. 6339 Jul 10 19:49 6°\$\text{0.1826} 5"0.8136 AU min. Earth dist. 6339 Jul 10 19:49 6°\$\text{0.1826} 5"0.8136 AU min. Earth dist. 6339 Jul 10 19:49 6°\$\text{0.1826} 5"0.8136 AU min. Earth dist. 6339 Jul 10 19:49 6°\$\text{0.1826} 5"0.8136 AU min. Earth dist. 6339 Jul 10 19:49 6°\$\text{0.1826} 5"0.8136 AU min. Earth dist. 6339 Jul 10 19:49 6°\$\text{0.1826} 5"0.8136 AU min. Earth dist. 6339 Jul 10 19:49 6°\$\text{0.1826} 5"0.8136 AU min. Earth dist. 6339 Jul 10 19:49 6°\$\text{0.1826} 5"0.8136 AU min. Earth dist. 6339 Jul 10 19:49 6°\$\text{0.1826} 5"0.8136 AU min. Earth dist. 6339 Jul 10 19:49 6°\$\text{0.1826} 5"0.8136 AU min. Earth dist. 6339 Jul 10 19:49 6°\$\text{0.1826} 5"0.8136 AU min. Earth dist. 6339 Jul 10 19:49 6°\$\text{0.1826} 5"0.8136 AU min. Earth dist. 6339 Jul 10 19:49 6°\$\text{0.1826} 5"0.8136 AU min						
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Conjunction G332 Jul 09 22:49 21°\$47'19 1°13'00 retrograde G338 Nov 08 06:53 7°\$\bar{Q}\$50'53 minimum elong G332 Jul 09 22:49 21°\$\bar{Q}\$47'19 1°13'03 opposition G339 Jan 26 18:51 6°\$\bar{Q}\$25'48 -1°07'39 max. Earth dist. G332 Jul 10 18:48 21°\$\bar{Q}\$49'12 30.81316 AU minimum elong G332 Jul 25 23:04 22°\$\bar{Q}\$21'15 evening set G339 Jan 10 19:49 6°\$\bar{Q}\$55'48 evening set G339 Jan 10 19:49 6°\$\bar{Q}\$55'48 evening set G339 Jul 10 19:49 6°\$\bar{Q}\$55'48 evening set G339 Jul 10 19:49 6°\$\bar{Q}\$55'48 evening set G339 Jul 10 19:49 6°\$\bar{Q}\$55'48 evening set G333 Jul 12 20:30 22°\$\bar{Q}\$56'43 -1°17'26 minimum elong G333 Jul 12 13:09 21°\$\bar{Q}\$330'2 minimum elong G339 Jul 26 20:32 7°\$\bar{Q}\$13'37 -1°02'22 evening set G333 Jul 13 13:09 21°\$\bar{Q}\$330'2 max. Earth dist. G333 Jul 12 12:05 24°\$\bar{Q}\$02'28 1°11'48 retrograde G339 Nov 10 19:18 10°\$\bar{Q}\$05'46 evening set G333 Jul 12 12:05 24°\$\bar{Q}\$02'28 1°11'50 opposition G340 Jan 29 06:22 8°\$\bar{Q}\$40'46 -1°05'39 max. Earth dist. G333 Jul 28 12:54 24°\$\bar{Q}\$38'25 direct G340 Apr 15 21:50 7°\$\bar{Q}\$10'55 evening set G334 Jan 15 08:23 25°\$\bar{Q}\$11'45 -1°16'05 evening set G334 Jan 14 14:27 25°\$\bar{Q}\$13'10 28:81248 AU evening set G334 Jul 15 01:27 26°\$\bar{Q}\$11'45 -1°10'29 evening set G334 Jul 15 01:27 26°\$\bar{Q}\$11'45 -1°10'29 evening set G340 Nov 12 09:05 12°\$\bar{Q}\$12'46 1°0'0'28 evening set G334 Jul 15 01:27 26°\$\bar{Q}\$11'45 -1°10'29 evening set G340 Nov 12 09:05 12°\$\bar{Q}\$12'46 evening set G334 Jul 15 01:27 26°\$\bar{Q}\$11'45 -1°10'29 evening set G340 Nov 12 09:05 12°\$\bar{Q}\$12'46 evening set G334 Jul 15 01:27 26°\$\bar{Q}\$11'26 1°10'32 opposition G341 Jan 30 01:00 10°\$\bar{Q}\$56'59 28.8	evening set	6332 Jun 24 01:20	21° © 11'40	max. Earth dist.	6338 Jul 25 00:59	5° Ω 18'24 30.82186 AU
minimum elong 6332 Jul 09 22:49 21°947'19 1°13'03 opposition 6339 Jan 26 18:51 6°Ω25'48 1°07'39 max. Earth dist. 6332 Jul 10 18:48 21°949'12 30.81316 AU min. Earth dist. 6339 Jan 26 02:20 6°Ω26'58 28.82516 AU morning rise 6332 Jul 25 23:04 22°952'316 evening set 6339 Jul 10 19:49 6°Ω5'548 opposition 6333 Jan 12 02:30 22°956'43 -1°17'26 min. Earth dist. 6333 Jan 12 02:47 22°957'58 28.81323 AU conjunction 6339 Jul 26 20:32 7°Ω31'37 1°02'22 direct 6333 Mar 31 13:09 21°933'02 minimum elong 6339 Jul 26 20:32 7°Ω31'37 1°02'22 evening set 6333 Jul 12 12:05 24°902'28 -1°11'48 retrograde 6339 May 11 23:36 8°Ω07'41 conjunction 6333 Jul 12 12:05 24°902'28 1°11'50 opposition 6340 Jan 29 06:22 8°Ω40'46 -1°05'39 max. Earth dist. 6333 Jul 12 12:05 24°902'28 1°11'50 opposition 6340 Jan 29 06:22 8°Ω40'46 -1°05'39 max. Earth dist. 6334 Jan 15 08:23 25°931'14 5°16'05 retrograde 6334 Jan 14 14:27 25°931'01 28.81248 AU conjunction 6340 Jul 28 09:57 9°Ω46'41 1°00'26 retrograde 6334 Jul 15 01:27 26°91'126 1°10'32 opposition 6340 Jul 29 03:12 9°Ω48'18 30.83387 AU minimum elong 6334 Jul 15 01:27 26°91'726 1°10'32 opposition 6340 Jul 29 03:12 9°Ω48'18 30.83387 AU minimum elong 6334 Jul 15 01:27 26°91'726 1°10'32 opposition 6341 Jan 30 17:58 10°Ω55'52 1°03'32 max. Earth dist. 6334 Jul 15 01:27 26°91'726 1°10'32 opposition 6341 Jan 30 17:58 10°Ω55'52 28.83194 AU minimum elong 6334 Jul 15 01:27 26°91'726 1°10'32 opposition 6341 Jan 30 17:58 10°Ω55'52 28.83749 AU minimum elong 6334 Jul 15 01:27 26°91'726 1°10'32 opposition 6341 Jan 30 12:05 10°Ω56'59 28.83749 AU				morning rise	6338 Aug 09 09:44	5° Ω 52'45
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agniumation	6341 Jul 30 23:47	12° Ω 01'52 -0°58'25	morning rise	6347 Aug 30 16:02 6347 Nov 29 03:22	26° Ω 07'39 28° Ω 04'50	
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evening set	0342 Jul 17 11.44	13 6641 13	morning rise	6348 Sep 01 05:42	28° Ω 21'58	10
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retrograde	6342 Nov 17 11:58	16° Ω 51'06	direct	6349 May 06 10:08	27° Ω 29'59	
opposition	6343 Feb 04 16:57	15°Ω26'15 -0°59'02	evening set	6349 Aug 02 09:11	29° Ω 24'03	
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evening sec	03 13 341 20 01.07	13 003023	morning rise	6349 Sep 03 19:40	0° m/36'08	
conjunction	6343 Aug 05 03:27	16° Ω 32'19 -0°54'07	retrograde	6349 Dec 03 01:55	2° m/ 33'03	
minimum elong	6343 Aug 05 03:27	16°Ω32'19 0°54'08	opposition	6350 Feb 19 22:40	1° m) 08'18 -0°40'45	
max. Earth dist.	6343 Aug 05 19:13	16°Ω33'48 30.85010 AU	min. Earth dist.	6350 Feb 19 11:41	1° mp 09'05 28.88323 A	ΔII
morning rise	6343 Aug 21 07:51	17° Ω 08'26	mm. Lattii dist.	6350 Apr 07 19:51	30°RΩ	10
retrograde	6343 Nov 20 00:47	19° Ω 06'11	direct	6350 May 08 20:18	29° Ω 44'01	
opposition	6344 Feb 07 04:21	17°Ω41'22 -0°56'39	uncet	6350 Jun 08 14:00	0° m	
min. Earth dist.	6344 Feb 06 14:57	17° Ω 42'19 28.85249 AU	evening set	6350 Aug 04 22:29	1° m) 38'07	
direct	6344 Apr 24 22:17	16°Ω17'25	evening set	0550 rug 04 22.2)	1 11/2007	
evening set	6344 Jul 21 14:31	18° Ω 11'29	conjunction	6350 Aug 21 03:21	2° m/ 14'06 -0°36'48	
evening set	0544 Jul 21 14.51	10 0(112)	minimum elong	6350 Aug 21 03:21	2° m) 14'06 0°36'49	
conjunction	6344 Aug 06 17:13	18° Ω 47'25 -0°51'51	max. Earth dist.	6350 Aug 21 05:21 6350 Aug 21 15:46	2° m) 15'15 30.88744 A	ΔII
minimum elong	6344 Aug 06 17:13	$18^{\circ}\Omega47'25 0.51'53$	morning rise	6350 Sep 06 09:30	2° m/ 50'13	10
max. Earth dist.	6344 Aug 07 07:48	18° Ω 48'46 30.85407 AU	retrograde	6350 Dec 05 13:08	4° mp 47'01	
morning rise	6344 Aug 22 21:59	19° Ω 23'32	opposition	6351 Feb 22 09:33	3° m) 22'20 -0°37'52	
retrograde	6344 Nov 21 15:08	21° Ω 21'09	min. Earth dist.	6351 Feb 21 23:06	3° m/ 23'05 28.89238 A	ΔIJ
opposition	6345 Feb 08 15:35	19° Ω 56'20 -0°54'11	direct	6351 May 11 07:58	1° m 58'03	
min. Earth dist.	6345 Feb 08 01:54	19° Ω 57'18 28.85621 AU	evening set	6351 Aug 07 11:55	3° m/ 52'11	
direct	6345 Apr 27 11:33	18°Ω32'19	evening sec	033111 ug 07 11.33	3 m/32 11	
evening set	6345 Jul 24 03:51	20°Ω26'23	conjunction	6351 Aug 23 16:54	4° m/28'10 -0°34'04	
		00	minimum elong	6351 Aug 23 16:54	4° m) 28'10 0°34'05	
conjunction	6345 Aug 09 06:54	21° Ω 02'19 -0°49'31	max. Earth dist.	6351 Aug 24 03:51	4° m/29'11 30.89731 A	ΔIJ
minimum elong	6345 Aug 09 06:54	21° Ω 02'19 0°49'32	morning rise	6351 Sep 08 23:22	5° m 04'17	
max. Earth dist.	6345 Aug 09 20:56	21° Ω 03'38 30.85769 AU	retrograde	6351 Dec 08 02:36	7° m 00'59	
morning rise	6345 Aug 25 11:58	21° Ω 38'27	opposition	6352 Feb 24 20:19	5° m/36'23 -0°34'55	
retrograde	6345 Nov 24 02:24	23° € 35'56	min. Earth dist.	6352 Feb 24 09:54	5° m) 37'07 28.90277 A	٩U
opposition	6346 Feb 11 02:53	22°Ω11'06 -0°51'38	direct	6352 May 12 18:49	4° m) 12'06	
min. Earth dist.	6346 Feb 10 14:48	22° Ω 11'57 28.85989 AU	evening set	6352 Aug 09 01:20	6° m 06'18	
direct	6346 Apr 29 22:56	20° Ω 47'02	Č	Z .	•	
evening set	6346 Jul 26 17:12	22° € 41'05	conjunction	6352 Aug 25 06:41	6° Mp 42'18 -0°31'17	
<i>3</i> - 1 - 1			minimum elong	6352 Aug 25 06:41	6° mp 42'18 0°31'18	
conjunction	6346 Aug 11 20:43	23° Ω 17'02 -0°47'06	max. Earth dist.	6352 Aug 25 17:51	6° m 43'20 30.90806 A	ΑU
minimum elong	6346 Aug 11 20:44	23° \Omega 17'02 0°47'07	morning rise	6352 Sep 10 13:11	7° m 18'25	
max. Earth dist.	6346 Aug 12 10:32	23° Ω 18'19 30.86163 AU	retrograde	6352 Dec 09 14:41	9° m 15'01	
morning rise	6346 Aug 28 02:01	23° Ω 53'09	opposition	6353 Feb 26 07:10	7° m 50'30 -0°31'55	
retrograde	6346 Nov 26 15:09	25° Ω 50'28	min. Earth dist.	6353 Feb 25 22:07	7° m 51'09 28.91373 A	ΑU
opposition	6347 Feb 13 13:46	24°Ω25'40 -0°49'01	direct	6353 May 15 07:16	6° m) 26'14	-
min. Earth dist.	6347 Feb 13 01:18	24°Ω26'33 28.86402 AU	evening set	6353 Aug 11 14:51	8° m/20'30	
direct	6347 May 02 11:44	23° Ω 01'31			- wa * - -	
evening set	6347 Jul 29 06:40	24° Ω 55'34	conjunction	6353 Aug 27 20:26	8° mp 56'30 -0°28'28	
		##: * * *	minimum elong	6353 Aug 27 20:26	8° m 56'30 0°28'28	
conjunction	6347 Aug 14 10:23	25° Ω 31'32 -0°44'37	max. Earth dist.	6353 Aug 28 06:14	8° m 57'25 30.91915 A	ΑU
minimum elong	6347 Aug 14 10:24	$25^{\circ}\Omega$ 31'32 0°44'38	morning rise	6353 Sep 13 03:10	9° m/ 32'37	
		- 000-		5ep 15 05.10		

retrograde	6353 Dec 12 04:43	11° m 29'07	direct	6360 May 30 17:01	22° m 04'21
opposition	6354 Feb 28 17:56	10° M $04'42 - 0^{\circ}28'53$	evening set	6360 Aug 27 14:02	23° m 58'49
min. Earth dist.	6354 Feb 28 08:47	10° Mp 05'21 28.92459 AU	J		
direct	6354 May 17 20:05	8° m 40'27	conjunction	6360 Sep 12 20:45	24° m/34'48 -0°07'49
evening set	6354 Aug 14 04:38	10° m 34'46	minimum elong	6360 Sep 12 20:46	24° m/34'48 0°07'49
			behind sun begin	6360 Sep 12 14:51	24° m/34'17
conjunction	6354 Aug 30 10:25	11° Mp 10'47 -0°25'36	behind sun end	6360 Sep 13 02:40	24° m/35'20
minimum elong	6354 Aug 30 10:25	11° Mp 10'47 0°25'36	max. Earth dist.	6360 Sep 12 23:56	24° m/35'04 30.97896 AU
max. Earth dist.	6354 Aug 30 19:20	11° m 11'36 30.92959 AU	J morning rise	6360 Sep 29 03:53	25° m/ 10'51
morning rise	6354 Sep 15 17:12	11° m) 46'54	retrograde	6360 Dec 27 14:09	27° m 06'23
retrograde	6354 Dec 14 16:35	13° m 43'17	opposition	6361 Mar 15 20:12	25° m 42'19 -0°06'41
opposition	6355 Mar 03 04:45	12° m/ 18'57 -0°25'47	min. Earth dist.	6361 Mar 15 16:44	25° m 42'33 28.98338 AU
min. Earth dist.	6355 Mar 02 21:35	12° m 19'27 28.93464 AU		6361 Jun 02 03:49	24° m) 17'48
direct	6355 May 20 07:17	10° m 54'41	evening set	6361 Aug 30 03:22	26° mp 12'18
		•	evening set	0301 Aug 30 03.22	20 11/12 18
evening set	6355 Aug 16 18:18	12° m 49'03	agniumation	6261 San 15 10:10	26° mp 48'17 -0°04'49
	(255 9 02 00 22	120 m- 2510 4 0022141	conjunction	6361 Sep 15 10:19	
conjunction	6355 Sep 02 00:22	13° m 25'04 -0°22'41	minimum elong	6361 Sep 15 10:19	26° m 48'17 0°04'49
minimum elong	6355 Sep 02 00:22	13° m 25'04 0°22'42	behind sun begin	6361 Sep 15 03:53	26° m 47'43
max. Earth dist.	6355 Sep 02 08:28	13° Mg 25'49 30.93924 AU		6361 Sep 15 16:45	26° m/48'52
morning rise	6355 Sep 18 07:14	14° Mp 01'10	max. Earth dist.	6361 Sep 15 13:47	26° Mp 48'34 30.98796 AU
retrograde	6355 Dec 17 06:02	15° m 57′26	morning rise	6361 Oct 01 17:17	27° m 24'19
opposition	6356 Mar 04 15:31	14° m 33'09 -0°22'40	retrograde	6361 Dec 30 00:41	29° m 19'43
min. Earth dist.	6356 Mar 04 08:18	14° m 33'40 28.94370 AU	Jopposition	6362 Mar 18 06:39	27° Mp 55'41 -0°03'27
direct	6356 May 21 20:20	13° Mp 08'53	min. Earth dist.	6362 Mar 18 04:23	27° m/55'51 28.99291 AU
evening set	6356 Aug 18 07:53	15° m 03'17	direct	6362 Jun 04 16:31	26° m/31'09
			evening set	6362 Sep 01 16:52	28° m/25'42
conjunction	6356 Sep 03 14:02	15° Mg 39'18 -0°19'45	•	•	
minimum elong	6356 Sep 03 14:02	15° mp 39'18 0°19'46	conjunction	6362 Sep 17 23:48	29° mg 01'40 -0°01'47
max. Earth dist.	6356 Sep 03 20:34	15° m 39'54 30.94782 AU	•	6362 Sep 17 23:49	29° m 01'40 0°01'46
morning rise	6356 Sep 19 21:03	16° m/ 15'24	behind sun begin	6362 Sep 17 17:13	29° m 01'05
retrograde	6356 Dec 18 18:11	18° m) 11'31	behind sun end	6362 Sep 18 06:24	29° m 02'15
opposition	6357 Mar 07 02:20	16° Mp 47'17 -0°19'30	max. Earth dist.	6362 Sep 18 02:00	29° m 01'48 30.99815 AU
min. Earth dist.	6357 Mar 06 20:45	16° mp 47'41 28.95193 AU		6362 Oct 04 06:48	29° m 37'40
		15° Mp 22'59	morning risc	6362 Oct 14 19:28	0° ₽
direct	6357 May 24 06:37	•			
evening set	6357 Aug 20 21:27	17° m 17'24	retrograde	6363 Jan 01 13:19	1° £ 32'56
	(255 0 0 0 0 55	150 m 5010 5 001 (140	opposition	6363 Mar 20 16:52	0° △ 08'58 -0°00'13
conjunction	6357 Sep 06 03:57	17° Mp 53'25 -0°16'48	min. Earth dist.	6363 Mar 20 14:08	0° 2 09'10 29.00368 AU
minimum elong	6357 Sep 06 03:57	17° Mp 53'25 0°16'48		6363 Mar 26 00:11	30°R, Mp
max. Earth dist.	6357 Sep 06 10:20	17° m 54'00 30.95576 AU	J asc. node	6363 Apr 14 08:26	29° m/28'52
morning rise	6357 Sep 22 10:55	18° m ∕ 29'30	direct	6363 Jun 07 04:58	28° Mp 44'26
retrograde	6357 Dec 21 04:36	20° m 25'28		6363 Aug 16 08:59	0∘ ত
opposition	6358 Mar 09 12:50	19°Mp01'17 -0°16'20	evening set	6363 Sep 04 06:18	0° £ 39′01
min. Earth dist.	6358 Mar 09 07:33	19° Mp 01'40 28.95953 AU	J		
direct	6358 May 26 19:29	17° m 36'56	conjunction	6363 Sep 20 13:18	1° £ 14'59 0°01'22
evening set	6358 Aug 23 11:09	19° m 31'22	minimum elong	6363 Sep 20 13:18	1° ≙ 14'59 0°01'21
			behind sun begin	6363 Sep 20 06:42	1° - 14′24
conjunction	6358 Sep 08 17:39	20° m 07'22 -0°13'49	behind sun end	6363 Sep 20 19:53	1° £ 15'34
minimum elong	6358 Sep 08 17:39	20° m 07'22 0°13'49	max. Earth dist.	6363 Sep 20 15:12	1° ≏ 15'06 31.00948 AU
behind sun begin	6358 Sep 08 14:21	20° m 07'05	morning rise	6363 Oct 06 20:09	1° ≏ 50'58
behind sun end	6358 Sep 08 20:57	20° m/07'40	retrograde	6364 Jan 04 00:47	3° £ 46′07
max. Earth dist.	6358 Sep 08 22:04	20° m 07'46 30.96327 AU	•	6364 Mar 22 03:20	2° £ 22'14 0°03'01
morning rise	6358 Sep 25 00:48	20° m/43'27	min. Earth dist.	6364 Mar 22 02:05	2° 2 22'19 29.01560 AU
retrograde	6358 Dec 23 15:56	22° m/39'17	direct	6364 Jun 08 15:57	0° £ 57'42
opposition	6359 Mar 11 23:23	21° Mp 15'08 -0°13'08	evening set	6364 Sep 05 19:33	2° £ 52′20
• •			•	0304 Sep 03 19.33	2 = 32 20
min. Earth dist.	6359 Mar 11 19:04	21° Mp 15'26 28.96707 AU		(2(4 9 22 02-20	20 0 20110 000 4125
direct	6359 May 29 05:40	19° m 50'43	conjunction	6364 Sep 22 02:39	3° £ 28'18 0°04'25
evening set	6359 Aug 26 00:32	21° m 45'10	minimum elong	6364 Sep 22 02:38	3° 2 28'18 0°04'25
			behind sun begin	6364 Sep 21 20:10	3° £ 27'44
conjunction	6359 Sep 11 07:18	22° m/21'11 -0°10'49	behind sun end	6364 Sep 22 09:06	3° ≏ 28'52
minimum elong	6359 Sep 11 07:18	22° Mg 21'11 0°10'50	max. Earth dist.	6364 Sep 22 04:05	3° £ 28′24 31.02191 AU
behind sun begin	6359 Sep 11 02:20	22° m 20'44	morning rise	6364 Oct 08 09:25	4° £ 04'16
behind sun end	6359 Sep 11 12:15	22° m 21'37	retrograde	6365 Jan 05 14:11	5° ჲ 59'18
max. Earth dist.	6359 Sep 11 12:09	22° m/21'37 30.97084 AU	Jopposition	6365 Mar 24 13:36	4° £ 35'31 0°06'15
morning rise	6359 Sep 27 14:16	22° m 57'14	min. Earth dist.	6365 Mar 24 12:09	4° £ 35'37 29.02818 AU
retrograde	6359 Dec 26 02:10	24° m 52'55	direct	6365 Jun 11 05:24	3° £ 11′00
opposition	6360 Mar 13 09:53	23° m/28'48 -0°09'55	evening set	6365 Sep 08 09:09	5° ჲ 05'42
• •		•	•	*	
min. Earth dist.	6360 Mar 13 06:21	23°Mp29'03 28.97479 AU	J		

agniumation	6265 Can 24 16:00	59 0 41!20	0°07'25	minimum alana	6271 Oct. 00 00:25	100 0 00120	0025105
conjunction	6365 Sep 24 16:08	5° Ω 41'39		minimum elong	6371 Oct 09 00:35	19° Ω 00'20	
minimum elong	6365 Sep 24 16:08	5° Ω 41'39	0°07'25	max. Earth dist.	6371 Oct 08 18:33		31.09270 AU
behind sun begin	6365 Sep 24 10:08	5° £ 41'08		morning rise	6371 Oct 25 06:07	19° Ω 36'06	
behind sun end	6365 Sep 24 22:08	5° ≏ 42'11		retrograde	6372 Jan 21 18:37	21° ≏ 30'14	
max. Earth dist.	6365 Sep 24 16:17	5° ≏ 41'40	31.03454 AU	opposition	6372 Apr 08 13:33	20° ≏ 06'49	
morning rise	6365 Oct 10 22:51	6° ≏ 17'36		min. Earth dist.	6372 Apr 08 18:10	20° ჲ 06′29	29.09647 AU
retrograde	6366 Jan 08 02:06	8° ₤ 12'32		direct	6372 Jun 26 14:23	18° ≏ 42'06	
opposition	6366 Mar 26 23:54	6° £ 48'50	0°09'29	evening set	6372 Sep 24 07:05	20° ≏ 36'58	
min. Earth dist.	6366 Mar 27 00:05	6° £ 48'49	29.04081 AU				
direct	6366 Jun 13 16:15	5° £ 24'20		conjunction	6372 Oct 10 13:33	21° ≏ 12'47	0°27'54
evening set	6366 Sep 10 22:42	7° £ 19'06		minimum elong	6372 Oct 10 13:33	21° Ω 12'47	
evening sec	озоо бер то 222	, —13 00		max. Earth dist.	6372 Oct 10 07:10		31.10014 AU
conjunction	6366 Sep 27 05:48	7° ჲ 55'02	0°10'25	morning rise	6372 Oct 26 18:47	21° Ω 48'32	31.10014710
	•			-			
minimum elong	6366 Sep 27 05:47	7° Ω 55'02	0°10'26	retrograde	6373 Jan 23 04:55	23° Ω 42'32	0021117
behind sun begin	6366 Sep 27 00:40	7° £ 54'35		opposition	6373 Apr 10 23:46	22° △ 19'08	
behind sun end	6366 Sep 27 10:54	7° £ 55'29		min. Earth dist.	6373 Apr 11 06:00		29.10414 AU
max. Earth dist.	6366 Sep 27 05:39	7° £ 55'02	31.04685 AU	direct	6373 Jun 29 01:45	20° ≏ 54'22	
morning rise	6366 Oct 13 12:14	8° ≏ 30'57		evening set	6373 Sep 26 20:12	22° ≏ 49'15	
retrograde	6367 Jan 10 12:53	10° £ 25'46					
opposition	6367 Mar 29 10:15	9° ഫ 02'10	0°12'41	conjunction	6373 Oct 13 02:33	23° ≏ 25'03	0°30'41
min. Earth dist.	6367 Mar 29 10:52	9° ჲ 02'07	29.05261 AU	minimum elong	6373 Oct 13 02:33	23° ₽ 25'03	0°30'41
direct	6367 Jun 16 05:03	7° £ 37'40		max. Earth dist.	6373 Oct 12 19:37	23° Ω 24'25	31.10811 AU
evening set	6367 Sep 13 12:16	9° ₽ 32'28		morning rise	6373 Oct 29 07:31	24° £ 00'46	
evening see	0307 Вер 13 12.10) — 32 20		retrograde	6374 Jan 25 17:00	25° £ 54'37	
conjunction	6367 Sep 29 19:07	10° ჲ 08'23	0°13'24	opposition	6374 Apr 13 09:41	24° £ 31'16	0°34'14
					•		
minimum elong	6367 Sep 29 19:08	10° £ 08′23	0°13'24	min. Earth dist.	6374 Apr 13 15:34		29.11243 AU
behind sun begin	6367 Sep 29 15:31	10° £ 08'04		direct	6374 Jul 01 15:29	23° Ω 06'28	
behind sun end	6367 Sep 29 22:44	10° Ω 08'42		evening set	6374 Sep 29 09:21	25° ≏ 01'24	
max. Earth dist.	6367 Sep 29 16:51		31.05810 AU				
morning rise	6367 Oct 16 01:31	10° ≏ 44'17		conjunction	6374 Oct 15 15:25	25° ≏ 37'10	0°33'25
retrograde	6368 Jan 13 00:39	12° ≏ 38'59		minimum elong	6374 Oct 15 15:24	25° ≏ 37'10	0°33'26
opposition	6368 Mar 30 20:40	11° ≏ 15′26	0°15'52	max. Earth dist.	6374 Oct 15 07:33	25° ≏ 36′27	31.11682 AU
min. Earth dist.	6368 Mar 30 22:21	11° ≏ 15'19	29.06338 AU	morning rise	6374 Oct 31 20:06	26° £ 12'51	
direct	6368 Jun 17 15:26	9° £ 50'55		retrograde	6375 Jan 28 04:05	28° ≏ 06'36	
evening set	6368 Sep 15 01:43	11° ≏ 45'44		opposition	6375 Apr 15 19:52	26° ≏ 43'17	0°37'08
				min. Earth dist.	6375 Apr 16 02:49	26° ≏ 42'48	29.12184 AU
conjunction	6368 Oct 01 08:42	12° £ 21'39	0°16'22	direct	6375 Jul 04 02:36	25° ≏ 18'29	
minimum elong	6368 Oct 01 08:41	12° ჲ 21'39	0°16'23	evening set	6375 Oct 01 22:07	27° £ 13′27	
max. Earth dist.	6368 Oct 01 06:26		31.06820 AU	evening sec	0370 000 01 22.07	2, —132,	
morning rise	6368 Oct 17 14:45	12° ⊆ 57'31	31.00020710	conjunction	6375 Oct 18 04:05	27° ≏ 49'12	0°36'06
retrograde	6369 Jan 14 10:32	14° ⊆ 52'04		minimum elong	6375 Oct 18 04:05	27° ⊆ 49'12	
•		14 ⊆ 32 04 13° ⊆ 28'34	0010102	•			
opposition	6369 Apr 02 06:58			max. Earth dist.	6375 Oct 17 20:35		31.12680 AU
min. Earth dist.	6369 Apr 02 09:53		29.07283 AU	morning rise	6375 Nov 03 08:23	28° ≏ 24'51	
direct	6369 Jun 20 02:56	12° £ 04'01		_	6375 Dec 28 09:05	0° ™	
evening set	6369 Sep 17 15:17	13° ≏ 58'51		retrograde	6376 Jan 30 14:19	0°M18′29	
					6376 Mar 04 04:26	30°Ŗ ჲ	
conjunction	6369 Oct 03 22:03	14° ≏ 34'44	0°19'18	opposition	6376 Apr 17 05:55	28° ≏ 55'16	0°39'58
minimum elong	6369 Oct 03 22:03	14° ≏ 34'44	0°19'18	min. Earth dist.	6376 Apr 17 12:45	28° ≏ 54'47	29.13233 AU
max. Earth dist.	6369 Oct 03 17:37	14° ≏ 34'20	31.07717 AU	direct	6376 Jul 05 15:14	27° ≏ 30′29	
morning rise	6369 Oct 20 04:06	15° ≏ 10'35		evening set	6376 Oct 03 11:07	29° ₽ 25'29	
retrograde	6370 Jan 16 21:37	17° ≏ 05'00		Ü			
opposition	6370 Apr 04 17:13	15° ≏ 41'32	0°22'09	conjunction	6376 Oct 19 16:44	0°M01'14	0°38'44
min. Earth dist.	6370 Apr 04 20:32		29.08132 AU	minimum elong	6376 Oct 19 16:44	0°M01'14	
direct	6370 Jun 22 14:13	14° £ 16'56	27.00132710	max. Earth dist.	6376 Oct 19 07:43		31.13787 AU
				max. Earth dist.			31.13/6/ AU
evening set	6370 Sep 20 04:40	16° £ 11'46			6376 Oct 19 03:25	0°M	
				morning rise	6376 Nov 04 20:51	0°M36'51	
conjunction	6370 Oct 06 11:27	16° ≏ 47'39	0°22'12	retrograde	6377 Feb 01 02:00	2° ™ 30′24	
minimum elong	6370 Oct 06 11:27	16° ≏ 47'39		opposition	6377 Apr 19 15:54	1°M07'16	
max. Earth dist.	6370 Oct 06 06:58		31.08513 AU	min. Earth dist.	6377 Apr 19 23:19		29.14392 AU
morning rise	6370 Oct 22 17:06	17° ≏ 23'27			6377 Jun 04 21:41	30°Ŗ Ω	
retrograde	6371 Jan 19 06:51	19° ≙ 17'43		direct	6377 Jul 08 01:22	29° ≏ 42'31	
opposition	6371 Apr 07 03:28	17° ≏ 54'17	0°25'14		6377 Aug 09 19:09	0° M	
min. Earth dist.	6371 Apr 07 08:22		29.08898 AU	evening set	6377 Oct 06 00:02	1°M37'35	
direct	6371 Jun 25 02:13	16° ≏ 29'38	-	5			
evening set	6371 Sep 22 18:01	18° ≏ 24'29		conjunction	6377 Oct 22 05:35	2°M13'19	0°41'19
J. J	55,1 5 0 p 22 10.01	—272)		minimum elong	6377 Oct 22 05:35	2°M13'19	
			0005104	_			
conjunction	6371 Oct 09 00:35	19° ഫ 00'20	0°25'04	max. Earth dist.	6377 Oct 21 21:04	79 III 1797	31.14967 AU

Comparison Com		(277 No. 17, 00.12	20 m 40155		3:4	(204 I-1 22 10.00	150 m 06144	
opposition G778 Apr 22 0.021 PM 1987 2 9 1.578 APR 27 0.021 FM 1987 2 9 1.578 APR 27 0.021 regimention 6184 Nov 0 6 2.11 1 178 LPT 27 178 1797 2797 2797 2797 2797 2797 2797 2797	morning rise	6377 Nov 07 09:13	2°M48'55		direct	6384 Jul 23 10:08	15°M06'44	
min. Earth diered G78 p. May 12 (22) 62 PBM 549 (24) 1874 (27) 1874 (-			0045120	evening set	6384 Oct 21 17:52	1/~11602'01	
Minimum clong		•						
Compute Comp				29.15574 AU				
Compune to Com					_			
Septention G378 Cet 2 1812 4 ME259 04392	evening set	6378 Oct 08 13:06	3°11L49'47					31.21238 AU
minimum cloop 637 8 Cut 2 I 612 478 1252 9 0 4335 0 678 202 4 0 75 478 1252 9 1.1614 2 M close 15 min. Earth dist. 6378 Moy 17 1-06 18 1878 1250 2 2019 0 AU 2119 0 AU 6378 0 AU 20 120 5 578 120 2 AU 678 0 AU 20 120 5 578 120 2 AU 678 120 AU </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
max. Earth dist. 637 SA Ove 24 0753 4"ML2912 31,144 ZM min. Earth dist. 6378 May 07 140 mg 1971,170 mg 197	•				•			
moming in corregation G379 kot 92 23 57 57 57 57 57 57 57 5	Č	6378 Oct 24 18:12	4° ™ 25'29	0°43'52	opposition	•	18°M43'00	1°02'23
Part		6378 Oct 24 07:53	4°M24'32	31.16142 AU	min. Earth dist.	6385 May 07 14:08		29.21590 AU
opposition in Farth dist. 6379 Apr 24 12 203 S*IBLATISE OFFICATION OF THE MARK STORY OF THE ARCH STATE OF THE ARCH STA	-	6378 Nov 09 21:36	5°M01'03		direct	6385 Jul 25 23:18	17° M ₊18'08	
min muth disk 379 Ar 24 0.39 5"BLUYS 291523 AU conjunction 6.38 Nov 0 0 09.21 19"BLUSS 0"9925 cvening set 6.379 Oct 2 10" 10" 20" 6"BLUYS 10" 10" 10" 10" 10" 10" 10" 10" 10" 10"	retrograde	6379 Feb 05 22:23			evening set	6385 Oct 24 06:28	19° ™ 13'26	
Minimum elong 6379 Okt 1 023 1 04 10 05 1 06 10 07 1 07 07 1 07 07 1 07 07 1 07 07 1 07 07 1 07 07 1 07 07 07 1 07 07 07 1 07 07 07 1 07 07 07 1 07 07 07 07 07 07 07 07 07 07 07 07 07	opposition	6379 Apr 24 12:05	5°M31'32	0°48'07				
Part	min. Earth dist.	6379 Apr 24 20:39	5° ™ 30'56	29.16732 AU	conjunction	6385 Nov 09 09:23	19° M 48'55	0°59'24
Conjunction	direct	6379 Jul 12 23:11	4°M06'50		minimum elong	6385 Nov 09 09:23	19° M 48'55	0°59'25
Position G379 Oct 27 07.00 6°B3.774 0°4616 reingrade minimum elong 6379 Oct 27 062 04 6°B3.7874 0°4616 reingrade 6379 Oct 2 0°26 04 6°B3.7874 0°4616 reingrade 6379 Oct 2 0°26 04 6°B3.7874 0°4616 reingrade 6379 Oct 2 0°26 05 07 0°B3.7874 0°4616 reingrade 6379 Oct 2 0°26 05 07 0°B3.7874 0°4616 reingrade 6379 Oct 2 0°26 05 07 0°B3.7874 0°4616 reingrade 6379 Oct 2 0°26 05 07 0°B3.7874 0°4616 reingrade 6380 Feb 8 0°818	evening set	6379 Oct 11 02:02	6°M₀02'02		max. Earth dist.	6385 Nov 08 17:38	19° M 47'28	31.21873 AU
minimum elong 679 Oct 2 0 6.59 678 J.743 94 e18 st opposition 638 May 10 0.13 20 PM,4311 1 1928 3 104 e17 st comming rise 6379 Not 2 0 9.51 7 PM,131 5 comming rise 6380 Art 2 0 9.51 7 PM,131 5 contrograde 6380 Art 2 0 9.51 7 PM,332 5 10 PM,231 7 1 29.225 XJ 7 PM,332 7 29.225 XJ 7 PM,332					morning rise	6385 Nov 25 10:00	20°M24'13	
max. Earth disid 6379 Nov. 12 09-51 "PRLA1915" ("PRLA1915") 4117249 AU mine Earth dist 6386 May 10 00-36 09//mL2917 29.22255 AU morning rise 6380 Feb 80 07:18 978L0315 07903 verning set 6386 Jal 28 11.00 1978L2917 29.12275 AU opposition 6380 Apr 25 22:21 778L4315 07903 6380 Apr 28 22:21 778L4315 07903 079	conjunction	6379 Oct 27 07:00	6° ™ 37'43	0°46'16	retrograde	6386 Feb 21 00:11	22°M16'54	
morning rise	minimum elong	6379 Oct 27 06:59	6° ™ 37'43	0°46'18	opposition	6386 May 09 11:05	20°M54'13	1°04'28
Performance Gasto Performance Performa	max. Earth dist.	6379 Oct 26 20:46	6° ™ 36'47	31.17249 AU	min. Earth dist.	6386 May 10 00:36	20°M53'17	29.22255 AU
opposition 638 OApr 25 22.21 7°EM,434 b 0°5042 conjunction 638 OAvr 26 08.31 7°EM,430 b 291,7797 AU conjunction 638 OAvr 12 12.45 22°EM,0070 b 10°11 C evening set 638 OU 1 2 14:56 8°EM,14°I max. Fairth dist. 638 OAvr 1 1 21:24 22°EM,0070 b 10°12 C conjunction 638 OU 1 2 14:56 8°EM,14°I retograde 638 Feb 23 08.09 22°EM,5372 C 22°EM,5372 C minimum elong 638 OO 12 8 19:31 8°EM,495 0°48'39 ertograde 638 Teb 23 08.09 22°EM,0071 C 10°CC max. Earth dist. 6380 No 13 22:10 9°EM,252 T create direct 6387 May 12 11:23 23°EM,041 C 10°C2 10°C2 10°C2 10°CC 10	morning rise	6379 Nov 12 09:51	7° ™ 13'15		direct	6386 Jul 28 11:01	19° M 29'19	
min. Earth dist. 6380 Apr 26 08.31 79M-30'U 29.17797 AU conjunction 6386 Nov 11 21.24 229M,0004 10117 driedt 6380 Oct 12 14:56 87M,1417 minimum elong 6386 Nov 11 21.24 227M,0500 101185 conjunction 6380 Oct 28 19:31 87M,4975 0°48'39 ertergarde 6387 Feb 20 38.87 227M,2500 10°627 minimum elong 6380 Not 28 19:31 8°M,495'6 0°48'41 opposition 6387 May 11 21:16 23°M,051'6 10°627 max. Earth dist. 6380 Nov 13 22:10 9°M,2527 direct 6387 Nov 12 11:20 23°M,051'6 10°627 retrogade 6381 Feb 20 18:49 11°M,18'41 0°5012 evening set 6387 Nov 14 09:12 24°M,10'10 10°30'6 direct 6381 Oct 28 10'81 10°M,552 0°50'51 evening set 6387 Nov 14 09:12 24°M,11'03 10°30'6 direct 6381 Oct 31 08:14 11°M,02'06 0°50'57 ertergarde 638' Nov 13 00'6 24°M,11'10 10°30'6 evening set 6381 Oct 31 08:14 11°M,02'05 31,	retrograde	6380 Feb 08 07:18	9°M06'35		evening set	6386 Oct 26 18:42	21°M24'37	
direct G380 Jul 4 10.07 6°R.1903 minimum clong G386 Nov 1 21.24 22°R.1004 10/120 cevning set 6380 Oct 1 21.24 22°R.1004 10/120 21°R.5842 31.2559 NJ max. Earth dist. G380 Nov 1 21.24 22°R.10320 22°R.10320 22°R.10320 23°R.1041 23°	opposition	6380 Apr 25 22:21	7° ™ 43'45	0°50'42	-			
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conjunction 6380 0ct 28 19:31 8"M-4956 0'48'91 crttograde 6387 Feb 23 08:49 24"M2755 10'60'27 max. Earth dist. 6380 0ct 28 19:31 8"M-4956 0'48'41 opposition 6387 May 12 11:26 23"M0516 1'06'27 crttograde 6381 Feb 0' 18:49 1"M18'41 crttograde 6381 Feb 0' 18:49 1"M18'41 crttograde 6381 Feb 0' 18:49 1"M18'41 crttograde 6381 Apr 28 08:29 9"M.55'51 0'5312 crttograde 6381 Jul 16 21:15 8"M31'12 218874'NU conjunction 6387 Nov 14 09:12 24"M11'03 1'03'08 crttograde 6381 Jul 16 21:15 8"M31'12 2181874'NU conjunction 6387 Nov 14 09:12 24"M11'03 1'03'08 crttograde 6381 Jul 16 21:15 8"M31'12 218174'NU conjunction 6387 Nov 14 09:12 24"M11'03 1'03'08 crttograde 6381 Jul 16 21:15 8"M31'12 218174'NU conjunction 6387 Nov 14 09:12 24"M11'03 1'03'08 crttograde 6381 Jul 16 21:15 8"M31'12 218174'NU conjunction 6387 Nov 14 09:12 24"M11'03 1'03'08 crttograde 6381 Jul 16 21:15 8"M31'12 218174'NU conjunction 6387 Nov 14 09:12 24"M11'03 1'03'08 crttograde 6381 Jul 16 21:15 13:15 1"M102'0 0'50'57 10 crttograde 6381 Nov 14 09:12 24"M11'03 1'03'08 crttograde 6381 Jul 16 21:15 13:15 1"M102'0 0'50'57 10 crttograde 6381 Nov 14 09:12 25"M15'14 29.23834 NU morning rise 6381 Nov 16 10:22 11"M37'34 1"M102'0 0'50'58 10 crttograde 6382 Feb 21 09:03 25"M15'15 210'04 25"M15'14 29.23834 NU morning rise 6382 Nov 10 10:23 21"M31'35 1"M31'32	direct	6380 Jul 14 10:07	6° ™ 19'03		minimum elong	6386 Nov 11 21:24	22°M00'04	1°01'20
conjunction	evening set	6380 Oct 12 14:56	8° M .14'17		max. Earth dist.	6386 Nov 11 06:29	21°M58'42	31.22559 AU
Conjunction GASO Oct 28 19-31 SePLAP956 0*48'39 O*48'39	· ·				morning rise	6386 Nov 27 21:24	22°M35'20	
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retrograde 6382 Feb 12 04:33 13°M3042 evening set 6388 Oct 30 19:07 25°M46'34 ropposition 6382 Apr 30 18:41 12°M.07'58 0°55'38 roffered 6382 May 01 06:31 12°M.07'08 29.19573 AU conjunction 6388 Nov 15 21:04 26°M.21'58 1°04'49 evening set 6382 Oct 17 16:44 12°M.38'31 rominimum elong 6388 Nov 15 21:04 26°M.21'58 1°04'49 evening set 6382 Nov 02 20:46 13°M.14'07 0°53'11 retrograde 6388 Nov 15 05:39 28°M.49'36 roffered 6382 Nov 02 20:46 13°M.14'07 0°53'11 retrograde 6389 Feb 27 03:29 28°M.49'36 roffered 6382 Nov 02 20:45 13°M.14'07 0°53'11 retrograde 6389 May 16 08:13 27°M.26'02 29.24'80 AU morning rise 6382 Nov 02 20:45 13°M.14'07 0°53'14 opposition 6382 Nov 02 20:45 13°M.14'07 0°53'14 opposition 6389 May 16 08:13 27°M.26'02 29.24'80 AU morning rise 6382 Nov 18 22:32 13°M.49'32 roffered 6389 Nov 18 08:50 27°M.27'03 1°00'70 roffered 6382 Nov 18 22:32 13°M.49'32 roffered 6389 Nov 18 08:50 28°M.32'53 1°06'28 roffered 6383 May 03 04:49 14°M.19'51 0°57'58 roffered 6389 Nov 18 08:50 28°M.32'53 1°06'28 roffered 6383 Nov 03 08:39 12 12'2.39 12'M.55'05 roffered 6389 Nov 18 08:50 28°M.32'53 1°06'28 roffered 6383 Nov 03 08:29 12'M.55'05 roffered 6383 Nov 03 08:59 12'M.55'05 roffered 6389 Nov 18 08:50 28°M.32'53 1°06'28 roffered 6383 Nov 03 08:59 12'M.55'05 roffered 6389 Nov 18 08:50 28°M.32'53 1°06'28 roffered 6383 Nov 03 08:59 12'M.55'05 roffered 6389 Nov 18 08:50 28°M.32'53 1°06'28 roffered 6383 Nov 03 08:59 12'M.55'05 roffered 6389 Nov 18 08:50 28°M.32'53 1°06'28 roffered 6383 Nov 03 08:59 15°M.25'56 0°55'20 0position 6390 May 18 10:35 29°M.37'0 19.25'39 1°11'48 roffered 6384 Feb 17 02:35 17°M.24'15 roffered 6384 Feb 17 02:35 17°M.54'15 roffered 6384 Feb 17				31.17137 AU		•		27.23634 AO
opposition 6382 Apr 30 18:41 12°m0758 0°5538 min. Earth dist. 6382 May 01 06:31 12°m0708 29.19573 AU conjunction 6388 Nov 15 21:04 26°m121'58 1°04'49 direct 6382 Jul 19 08:40 10°m43'14 minimum elong 6388 Nov 15 21:04 26°m121'58 1°04'52 evening set 6382 Oct 17 16:44 12°m38'31 max. Earth dist. 6388 Nov 15 21:04 26°m120'32 31.24244 AU conjunction 6382 Nov 02 00:46 13°m14'07 0°53'11 retrograde 6388 Dec 01 20:13 26°m120'32 31.24244 AU minimum elong 6382 Nov 02 00:20:45 13°m14'07 0°53'11 retrograde 6389 May 15 17:32 25°m12'03 1°00'07 max. Earth dist. 6382 Nov 02 07:27 13°m12'53 31.19915 AU min. Earth dist. 6389 May 16 08:13 27°m12'602 29.24780 AU retrograde 6383 Feb 14 16:02 15°m4.2934 Eevening set 6389 Nov 18 08:03 28°m12'53 1°06'26 opposition 6383 May 03 04:49 16:31 14°m19'02 29:20296 AU max. Earth dist.	•					Č		
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max. Earth dist. 6383 Nov 04 18:36 15° M24'37 31.20595 AU direct 6390 Aug 06 07:07 28° M13'08 morning rise 6383 Nov 21 10:22 16° M01'19 6390 Oct 31 19:55 0° 🗷 retrograde 6384 Feb 17 02:35 17° M54'15 evening set 6390 Nov 04 19:33 0° 🗷 08'32 opposition 6384 May 04 15:01 16° M31'32 1°00'13	•					•		
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retrograde 6384 Feb 17 02:35 17°M54'15 evening set 6390 Nov 04 19:33 0°🗷08'32 opposition 6384 May 04 15:01 16°M31'32 1°00'13				31.20595 AU	direct	•		
opposition 6384 May 04 15:01 16°M31'32 1°00'13	•							
	•			1000:	evening set	6390 Nov 04 19:33	0°×′08′32	
min. Earth dist. 6384 May 05 03:59 16°IIL30'38 29.20960 AU conjunction 6390 Nov 20 20:38 0° ₹ 43'53 1°07'58		•				(200)	00 = 1	1005-50
	min. Earth dist.	6384 May 05 03:59	16~IIL30'38	29.20960 AU	conjunction	6390 Nov 20 20:38	0~ x ′43′53	1~0/58

6404 Jan 14 03:03

0°정

6397 Aug 21 18:28

direct

13°**х** 30′55

retrograde	6404 Mar 31 13:51	1°る31'46	max. Earth dist.	6411 Jan 03 03:50	14°る16'59 31.33670 AU
opposition	6404 Jun 17 06:31	0°る09'52 1°23'38	max. Earth dist.	0411 Juli 05 05.50	14 3 1037 31.33070 NO
min. Earth dist.	6404 Jun 18 00:55	0°る08'36 29.33546 A	U conjunction	6411 Jan 04 01:06	14°る18'57 1°16'06
min. Burun Gibt.	6404 Jun 23 06:38	30°R. ₹	minimum elong	6411 Jan 04 01:06	14°る18'57 1°16'10
direct	6404 Sep 06 01:19	28° ∡ 745′12	morning rise	6411 Jan 19 14:50	14° る 53'31
	6404 Nov 15 19:44	0°ਰ	retrograde	6411 Apr 16 09:54	16° ろ 45'30
evening set	6404 Dec 05 14:37	0° る 40'49	opposition	6411 Jul 03 11:33	15° る 23'33 1°20'55
8			min. Earth dist.	6411 Jul 04 07:14	15°る22'12 29.33625 AU
conjunction	6404 Dec 21 09:49	1°る15'45 1°18'18	direct	6411 Sep 22 09:22	13° る 58'52
minimum elong	6404 Dec 21 09:49	1°る15'45 1°18'21	evening set	6411 Dec 21 19:02	15° る 54'19
max. Earth dist.	6404 Dec 20 14:05	1°る13'55 31.33679 A	-		
morning rise	6405 Jan 06 01:46	1° る 50'27	conjunction	6412 Jan 06 11:22	16° る 29'05 1°15'22
retrograde	6405 Apr 02 22:59	3° ප 42'26	minimum elong	6412 Jan 06 11:22	16°る29'05 1°15'24
opposition	6405 Jun 19 17:26	2° ප් 20'33 1°23'36	max. Earth dist.	6412 Jan 05 15:21	16°る27'13 31.33440 AU
min. Earth dist.	6405 Jun 20 12:43	2°る19'14 29.33933 A	U morning rise	6412 Jan 22 00:39	17° る 03'37
direct	6405 Sep 08 13:48	0° る 55'55	retrograde	6412 Apr 17 19:39	18° る 55'37
evening set	6405 Dec 08 01:55	2° る 51'33	opposition	6412 Jul 04 22:32	17° る 33'39 1°20'04
			min. Earth dist.	6412 Jul 05 17:44	17°る32'20 29.33418 AU
conjunction	6405 Dec 23 20:29	3° ප 26'27 1°18'13	direct	6412 Sep 23 22:20	16° る 08'58
minimum elong	6405 Dec 23 20:29	3° ප් 26'27 1°18'15	evening set	6412 Dec 23 05:40	18° る 04'25
max. Earth dist.	6405 Dec 22 23:31	3° る 24'30 31.34006 A	U		
morning rise	6406 Jan 08 12:10	4° ට 01'07	conjunction	6413 Jan 07 21:27	18°る39'09 1°14'31
retrograde	6406 Apr 05 09:56	5° る 53'06	minimum elong	6413 Jan 07 21:27	18°る39'09 1°14'34
opposition	6406 Jun 22 04:18	4° ප 31'16 1°23'27	max. Earth dist.	6413 Jan 07 00:46	18°る37'14 31.33279 AU
min. Earth dist.	6406 Jun 22 23:03	4°る29'59 29.34193 A	U morning rise	6413 Jan 23 10:32	19° る 13'40
direct	6406 Sep 11 01:36	3° පි 06'38	retrograde	6413 Apr 20 07:59	21° る 05'42
evening set	6406 Dec 10 13:01	5° පි 02'15	opposition	6413 Jul 07 09:40	19° る 43'44 1°19'06
max. Earth dist.	6406 Dec 25 10:56	5° る 35'15 31.34186 A	U min. Earth dist.	6413 Jul 08 04:08	19°る42'28 29.33309 AU
			direct	6413 Sep 26 09:45	18° る 19'04
conjunction	6406 Dec 26 07:19	5° ප් 37'09 1°18'00	evening set	6413 Dec 25 16:01	20°る14'31
minimum elong	6406 Dec 26 07:19	5° ප 37'09 1°18'04			
morning rise	6407 Jan 10 22:26	6° ප 11'47	conjunction	6414 Jan 10 07:34	20°る49'15 1°13'34
retrograde	6407 Apr 07 18:59	8° る 03'46	minimum elong	6414 Jan 10 07:35	20°る49'15 1°13'35
opposition	6407 Jun 24 15:25	6° る 41'56 1°23'10	max. Earth dist.	6414 Jan 09 12:28	20°る47'28 31.33213 AU
min. Earth dist.	6407 Jun 25 11:19	6°る40'34 29.34305 A	U morning rise	6414 Jan 25 20:08	21° る 23'45
direct	6407 Sep 13 13:12	5° る 17'19	retrograde	6414 Apr 22 17:12	23° る 15'50
evening set	6407 Dec 12 24:00	7° る 12'54	opposition	6414 Jul 09 20:57	21° る 53'52 1°18'01
			min. Earth dist.	6414 Jul 10 15:34	21°る52'36 29.33279 AU
conjunction	6407 Dec 28 17:49	7° る 47'46 1°17'42	direct	6414 Sep 28 21:41	20° る 29'16
minimum elong	6407 Dec 28 17:49	7° る 47'46 1°17'44	evening set	6414 Dec 28 02:29	22° る 24'43
max. Earth dist.	6407 Dec 27 20:39	7° る 45'48 31.34230 A	U		
morning rise	6408 Jan 13 08:41	8° ろ 22'23	conjunction	6415 Jan 12 17:31	22°る59'26 1°12'30
retrograde	6408 Apr 09 05:18	10° る 14'22	minimum elong	6415 Jan 12 17:32	22°る59'26 1°12'33
opposition	6408 Jun 26 02:21	8° る 52'31 1°22'47	max. Earth dist.	6415 Jan 11 21:57	22°る57'37 31.33231 AU
min. Earth dist.	6408 Jun 26 21:24	8°る51'13 29.34269 A	Č	6415 Jan 28 05:57	23° පි 33'55
direct	6408 Sep 15 00:59	7° る 27'54	retrograde	6415 Apr 25 04:32	25° ♂ 26'04
evening set	6408 Dec 14 10:59	9° る 23'27	opposition	6415 Jul 12 08:06	24° 궁 04'09 1°16'50
max. Earth dist.	6408 Dec 29 07:13	9°る56'19 31.34125 A		6415 Jul 13 01:32	24°る02'57 29.33319 AU
	(1007) 20 012(00750110 1015116	direct	6415 Oct 01 09:18	22°る39'36
conjunction	6408 Dec 30 04:26	9°る58'18 1°17'16	evening set	6415 Dec 30 12:42	24° ⋜ 35'04
minimum elong	6408 Dec 30 04:26	9°る58'18 1°17'19	max. Earth dist.	6416 Jan 14 09:07	25° る 08'03 31.33274 AU
morning rise	6409 Jan 14 18:51	10°る32'54		(416) 15 02 22	25070046 1011120
retrograde	6409 Apr 11 13:52	12°る24'53	conjunction	6416 Jan 15 03:32	25° る 09'46 1°11'20
opposition	6409 Jun 28 13:22	11°る03'00 1°22'16	minimum elong	6416 Jan 15 03:32	25°る09'46 1°11'22
min. Earth dist.	6409 Jun 29 09:35	11°る01'37 29.34111 A	Č	6416 Jan 30 15:32	25° る 44'15
direct	6409 Sep 17 11:40	9° る 38'21	retrograde	6416 Apr 26 14:22	27° る 36'28
evening set	6409 Dec 16 21:52	11° る 33'53	opposition	6416 Jul 13 19:31	26°♂14'34 1°15'32
aomine-+:	6410 Ic. 01 14.56	100	min. Earth dist.	6416 Jul 14 13:42	26°る13'20 29.33353 AU
conjunction	6410 Jan 01 14:56	12°る08'42 1°16'45	direct	6416 Oct 02 21:00	24°る50'06 26°る45'24
minimum elong	6410 Jan 01 14:56	12°る08'42 1°16'47	evening set	6416 Dec 31 23:09	26° ♂ 45'34
max. Earth dist.	6409 Dec 31 17:59	12°පි06'45 31.33928 A 12°පි43'16		6/17 Jan 16 12:21	270
morning rise	6410 Jan 17 04:59		conjunction	6417 Jan 16 13:31	27°る20'15 1°10'03 27°る20'15 1°10'06
retrograde	6410 Apr 13 23:25	14°る35'15	minimum elong	6417 Jan 16 13:31	
opposition	6410 Jul 01 00:25	13°る13'21 1°21'39 13°る12'01 29.33870 A	max. Earth dist.	6417 Jan 15 18:52	27°る18'31 31.33296 AU 27°る54'43
min. Earth dist.	6410 Jul 01 19:52		Č	6417 Feb 01 01:18	
direct	6410 Sep 19 23:38	11°る48'40	retrograde	6417 Apr 29 01:00	29°る47'01 28°る25'00 1°14'07
evening set	6410 Dec 19 08:30	13° る 44'10	opposition	6417 Jul 16 06:48	28° る 25'09 1°14'07

: E 4 E 4	(417.1.1. 16.22.40	200=20250 20 2022	· ATT	(424 F.1 O1 10 40	12024122 0050120	
min. Earth dist.	6417 Jul 16 23:48	28° 궁 23'59 29.33335	,	6424 Feb 01 10:49	12°≈34'32 0°58'30	
direct	6417 Oct 05 08:49	27° る 00'43	minimum elong	6424 Feb 01 10:49	12°≈34'32 0°58'31	
evening set	6418 Jan 03 09:34	28° る 56'11	max. Earth dist.	6424 Jan 31 17:45	12°≈32'56 31.30515 AU	
		_	morning rise	6424 Feb 16 20:54	13° ≈ 08′57	
conjunction	6418 Jan 18 23:36	29° る 30'52 1°08'41		6424 May 04 05:13	15° ≈	
minimum elong	6418 Jan 18 23:36	29° る 30'52 1°08'43	retrograde	6424 May 14 01:31	15° ≈ 01'37	
max. Earth dist.	6418 Jan 18 05:08	29° る 29'08 31.33232	2 AU	6424 May 23 21:00	15°R≈	
	6418 Feb 01 00:46	0° ≈	opposition	6424 Jul 31 16:34	13° ≈ 39'28 1°01'27	
morning rise	6418 Feb 03 11:01	0° ≈ 05′20	min. Earth dist.	6424 Aug 01 07:49	13°≈38'26 29.30251 AU	
retrograde	6418 May 01 09:54	1°≈57'42	direct	6424 Oct 20 16:19	12°≈15'04	
opposition	6418 Jul 18 18:29	0°≈35'50 1°12'36	evening set	6425 Jan 18 08:33	14° ≈ 10′13	
min. Earth dist.	6418 Jul 19 12:17	0°≈34'38 29.33228	3 AU			
	6418 Aug 10 10:05	30°R₹	conjunction	6425 Feb 02 20:29	14°≈44'48 0°56'30	
direct	6418 Oct 07 19:04	29° る 11'28	minimum elong	6425 Feb 02 20:29	14°≈44'48 0°56'32	
	6418 Dec 02 15:41	0°≈	max. Earth dist.	6425 Feb 02 04:48	14°≈43'20 31.29915 AU	
evening set	6419 Jan 05 19:48	1°≈06'54	max. Earth dist.	6425 Feb 09 14:48	15°≈	
evening set	0417 Jan 03 17.40	1 ~00 54	morning rise	6425 Feb 18 06:13	15 ∞ 15° ≈ 19'11	
	(410 I 21 00-22	1°≈41'34 1°07'13	•			
conjunction	6419 Jan 21 09:32		retrograde	6425 May 16 11:41	17°≈11'56	
minimum elong	6419 Jan 21 09:32	1°≈41'34 1°07'15	opposition	6425 Aug 03 04:27	15°≈49'43 0°59'16	
max. Earth dist.	6419 Jan 20 15:37	1°≈39'54 31.33072	2 AU min. Earth dist.	6425 Aug 03 19:55	15°≈48'40 29.29698 AU	
morning rise	6419 Feb 05 20:39	2°≈16′01		6425 Sep 04 18:17	15°R ≈	
retrograde	6419 May 03 19:28	4°≈08'28	direct	6425 Oct 23 04:33	14° ≈ 25′21	
opposition	6419 Jul 21 06:06	2°≈46'35 1°10'59		6425 Dec 08 21:22	15° ≈	
min. Earth dist.	6419 Jul 21 23:05	2°≈45′26 29.32993	3 AU evening set	6426 Jan 20 18:28	16° ≈ 20′27	
direct	6419 Oct 10 06:28	1° ≈ 22'14				
evening set	6420 Jan 08 06:14	3° ≈ 17'39	conjunction	6426 Feb 05 06:04	16° ≈ 55'01 0°54'25	
			minimum elong	6426 Feb 05 06:04	16° ≈ 55'01 0°54'26	
conjunction	6420 Jan 23 19:32	3°≈52'18 1°05'39	max. Earth dist.	6426 Feb 04 14:51	16°≈53'35 31.29424 AU	
minimum elong	6420 Jan 23 19:33	3°≈52'19 1°05'41	morning rise	6426 Feb 20 15:40	17° ≈ 29'25	
max. Earth dist.	6420 Jan 23 01:04	3°≈50'35 31.32770	•	6426 May 18 22:21	19° ≈ 22'14	
morning rise	6420 Feb 08 06:29	4°≈26'45	opposition	6426 Aug 05 16:20	18°≈00'00 0°57'00	
retrograde	6420 May 05 06:28	6°≈19'15	min. Earth dist.	6426 Aug 06 05:53	17°≈59'04 29.29248 AU	
opposition	6420 Jul 22 17:38	4°≈57'21 1°09'16	direct	6426 Oct 25 16:47	16°≈35'40	
min. Earth dist.	6420 Jul 23 10:59	4°≈56'11 29.3263		6427 Jan 23 04:11	18°≈30'44	
direct	6420 Oct 11 15:51	3°≈33'01	AO evening set	0427 Jan 23 04.11	10 20 44	
				(407 E-L 07 15-22	19°≈05'17 0°52'16	
evening set	6421 Jan 09 16:30	5°≈28′24	conjunction	6427 Feb 07 15:32		
	6404 X 05 05 00		minimum elong	6427 Feb 07 15:33	19°≈05'17 0°52'18	
conjunction	6421 Jan 25 05:38	6°≈03'02 1°04'00	max. Earth dist.	6427 Feb 07 01:01	19°≈03'56 31.29019 AU	
minimum elong	6421 Jan 25 05:38	6°≈03'02 1°04'03	morning rise	6427 Feb 23 00:58	19° ≈ 39'41	
max. Earth dist.	6421 Jan 24 12:10	6°≈01'23 31.32340	Č	6427 May 21 07:55	21° ≈ 32'37	
morning rise	6421 Feb 09 16:12	6° ≈ 37'28	opposition	6427 Aug 08 04:21	20°≈10′22 0°54′39	
retrograde	6421 May 07 16:18	8° ≈ 30′01	min. Earth dist.	6427 Aug 08 18:09	20°≈09'26 29.28883 AU	
opposition	6421 Jul 25 05:23	7°≈08'04 1°07'27	direct	6427 Oct 28 03:04	18° ≈ 46′06	
min. Earth dist.	6421 Jul 25 22:29	7°≈06'54 29.32123	•	6428 Jan 25 14:00	20° ≈ 41′09	
direct	6421 Oct 14 04:59	5°≈43'43	max. Earth dist.	6428 Feb 09 11:50	21°≈14'27 31.28686 AU	
evening set	6422 Jan 12 02:45	7° ≈ 39'03				
			conjunction	6428 Feb 10 01:11	21°≈15'42 0°50'01	
conjunction	6422 Jan 27 15:24	8°≈13'40 1°02'15	minimum elong	6428 Feb 10 01:11	21°≈15'42 0°50'02	
minimum elong	6422 Jan 27 15:24	8°≈13'40 1°02'17	morning rise	6428 Feb 25 10:25	21°≈50'06	
max. Earth dist.	6422 Jan 26 21:07	8°≈11'57 31.31783		6428 May 22 17:41	23° ≈ 43′09	
morning rise	6422 Feb 12 01:53	8° ≈ 48'05	opposition	6428 Aug 09 16:11	22° ≈ 20'54 0°52'13	
retrograde	6422 May 10 04:35	10° ≈ 40'41	min. Earth dist.	6428 Aug 10 04:46	22°≈20'03 29.28548 AU	
opposition	6422 Jul 27 17:06	9°≈18'40 1°05'32	direct	6428 Oct 29 14:33	20°≈56'42	
min. Earth dist.	6422 Jul 28 09:36	9°≈17'33 29.31524		6429 Jan 26 23:59	22°≈51'45	
direct	6422 Oct 16 15:56	7°≈54'18	r AO evening set	042) Jan 20 23.3)	22 ~31 73	
evening set	6423 Jan 14 12:43	9°≈49'34	conjunction	6429 Feb 11 10:47	23°≈26'18 0°47'42	
•						
max. Earth dist.	6423 Jan 29 08:27	10°≈22'36 31.31152	Č	6429 Feb 11 10:47	23°≈26'18 0°47'44	
: "	(422) 20 01 16	10004111 100010-	max. Earth dist.	6429 Feb 10 21:17	23°≈25'02 31.28354 AU	
conjunction	6423 Jan 30 01:16	10°≈24'11 1°00'25	morning rise	6429 Feb 26 19:58	24°≈00'43	
minimum elong	6423 Jan 30 01:16	10°≈24'11 1°00'28	retrograde	6429 May 25 05:22	25°≈53'53	
morning rise	6423 Feb 14 11:22	10° ≈ 58'35	opposition	6429 Aug 12 04:23	24° ≈ 31'39 0°49'42	
retrograde	(100) (10 10 16	12°≈51'14	min. Earth dist.	6429 Aug 12 16:50	24°≈30'48 29.28210 AU	
	6423 May 12 13:46					
opposition	6423 May 12 13:46 6423 Jul 30 04:52	11° ≈ 29'08 1°03'32	direct	6429 Oct 31 23:50	23° ≈ 07'31	
opposition min. Earth dist.	•	11°≈29'08 1°03'32 11°≈28'00 29.3087		6429 Oct 31 23:50 6430 Jan 29 09:43	23°≈07'31 25°≈02'33	
* *	6423 Jul 30 04:52					
min. Earth dist.	6423 Jul 30 04:52 6423 Jul 30 21:35	11° ≈ 28′00 29.30875				
min. Earth dist. direct	6423 Jul 30 04:52 6423 Jul 30 21:35 6423 Oct 19 03:46	11°≈28'00 29.30873 10°≈04'45	S AU evening set	6430 Jan 29 09:43	25°≈02'33	

may Earth dist	6430 Feb 13 08:28	25% 625150	21 27000 ATT	ratra ara da	6436 Jun 09 12:06	11°) 12'53	
max. Earth dist.			31.27989 AU	retrograde			0020110
morning rise	6430 Mar 01 05:19	26°≈11'31		opposition	6436 Aug 27 19:11	9° ¥ 50′19	
retrograde	6430 May 27 15:38	28°≈04'49	00.45105	min. Earth dist.	6436 Aug 28 04:45		29.22875 AU
opposition	6430 Aug 14 16:40	26° ≈ 42'35		direct	6436 Nov 16 10:46	8° ∺ 26′22	
min. Earth dist.	6430 Aug 15 04:36		29.27799 AU	evening set	6437 Feb 13 06:54	10° ∺ 21′07	
direct	6430 Nov 03 12:02	25° ≈ 18'32					
evening set	6431 Jan 31 19:45	27°≈13'33		conjunction	6437 Feb 28 16:17	10° ¥ 55'40	
				minimum elong	6437 Feb 28 16:17	10° ¥ 55'40	0°27'00
conjunction	6431 Feb 16 06:04	27° ≈ 48′06	0°42'52	max. Earth dist.	6437 Feb 28 07:37	10° ¥ 54'51	31.22354 AU
minimum elong	6431 Feb 16 06:04	27° ≈ 48′06	0°42'54	morning rise	6437 Mar 16 00:35	11°) (30′07	
max. Earth dist.	6431 Feb 15 17:26	27° ≈ 46'55	31.27540 AU	retrograde	6437 Jun 11 21:59	13° ¥ 24'10	
morning rise	6431 Mar 03 14:59	28° ≈ 22'31		opposition	6437 Aug 30 07:42	12° ₩ 01'31	0°27'20
	6431 Apr 29 07:01	0° ∀		min. Earth dist.	6437 Aug 30 15:40	12°) €00'59	29.21867 AU
retrograde	6431 May 30 04:41	0° ₩ 15'57		direct	6437 Nov 18 23:29	10°) 37'35	
•	6431 Jun 30 20:26	30°R≈		evening set	6438 Feb 15 16:34	12°) 32′16	
opposition	6431 Aug 17 04:53	28° ≈ 53'42	0°44'27	S			
min. Earth dist.	6431 Aug 17 16:06		29.27301 AU	conjunction	6438 Mar 03 01:40	13°) €06'49	0°24'11
direct	6431 Nov 05 21:59	27°≈29'42	27.27501110	minimum elong	6438 Mar 03 01:40	13°) €06'49	0°24'11
evening set	6432 Feb 03 05:37	29°≈24'43		max. Earth dist.	6438 Mar 02 17:09		31.21389 AU
evening set	0432 FC0 03 03.37	29 ~2443			6438 Mar 18 10:03	13° X 41'17	31.21369 AU
:	(422 E-L 10 15.54	2000 050116	0940121	morning rise		15° H 35'27	
conjunction	6432 Feb 18 15:54	29°≈59'16		retrograde	6438 Jun 14 09:28		000 4110
minimum elong	6432 Feb 18 15:54	29°≈59'16		opposition	6438 Sep 01 20:19	14°) 12'44	
max. Earth dist.	6432 Feb 18 04:35		31.26971 AU	min. Earth dist.	6438 Sep 02 03:41		29.20958 AU
	6432 Feb 18 23:49	0° \		direct	6438 Nov 21 09:30	12°) 48'49	
morning rise	6432 Mar 05 00:33	0°) 33′41		evening set	6439 Feb 18 02:11	14°) (43′27	
retrograde	6432 May 31 14:57	2° ∺ 27'15					
opposition	6432 Aug 18 17:20	1° ¥ 04'58	0°41'44	conjunction	6439 Mar 05 11:20	15°) 18′00	0°21'21
min. Earth dist.	6432 Aug 19 04:55	1° ∺ 04'11	29.26654 AU	minimum elong	6439 Mar 05 11:20	15°) 18′00	0°21'22
	6432 Oct 03 08:27	30° ₹ ≈		max. Earth dist.	6439 Mar 05 04:46	15° ∺ 17'23	31.20526 AU
direct	6432 Nov 07 09:18	29° ≈ 41′01		morning rise	6439 Mar 20 19:33	15° ¥ 52'29	
	6432 Dec 11 15:53	0° ∀		retrograde	6439 Jun 16 18:57	17°) (46′46	
evening set	6433 Feb 04 15:39	1°) 36′00		opposition	6439 Sep 04 08:47	16°) 24′00	0°21'16
				min. Earth dist.	6439 Sep 04 15:10	16°) 23′34	29.20132 AU
conjunction	6433 Feb 20 01:35	2° ₩ 10'33	0°37'46	direct	6439 Nov 23 21:23	15° ₩ 00'08	
minimum elong	6433 Feb 20 01:35	2°) 10'33		evening set	6440 Feb 20 11:57	16°) 54'44	
max. Earth dist.	6433 Feb 19 13:49		31.26259 AU			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
morning rise	6433 Mar 07 10:15	2°) (44'59	31.20203110	conjunction	6440 Mar 06 20:49	17° ¥ 29'16	0°18'29
retrograde	6433 Jun 03 03:49	4° H 38'39		minimum elong	6440 Mar 06 20:49	17° X 29'16	0°18'29
opposition	6433 Aug 21 05:43	3° ∺ 16′20	0020157	max. Earth dist.	6440 Mar 06 14:02		31.19746 AU
min. Earth dist.	•		29.25864 AU			18°) (03'47	31.19740 AU
	6433 Aug 21 16:03 6433 Nov 09 22:00			morning rise	6440 Mar 22 05:13	18 X 0347 19° X 58'12	
direct		1° ¥ 52′24		retrograde	6440 Jun 18 07:36		0010111
evening set	6434 Feb 07 01:35	3° ¥ 47′21		opposition	6440 Sep 05 21:22	18°) ₹35'23	
				min. Earth dist.	6440 Sep 06 02:32		29.19381 AU
conjunction	6434 Feb 22 11:25	4° ¥ 21'53		direct	6440 Nov 25 06:38	17° ∺ 11'34	
minimum elong	6434 Feb 22 11:25	4° ¥ 21'53		evening set	6441 Feb 21 21:32	19° ∺ 06'08	
max. Earth dist.	6434 Feb 22 00:34		31.25395 AU				
morning rise	6434 Mar 09 19:54	4° ¥ 56′20		conjunction	6441 Mar 09 06:26	19° ∺ 40'41	0°15'35
retrograde	6434 Jun 05 15:24	6° ¥ 50'06		minimum elong	6441 Mar 09 06:26	19°) (40′41	0°15'35
opposition	6434 Aug 23 18:20	5° ∺ 27'42	0°36'07	behind sun begin	6441 Mar 09 04:35	19°) (40′31	
min. Earth dist.	6434 Aug 24 05:14	5° ∺ 26'58	29.24938 AU	behind sun end	6441 Mar 09 08:17	19°) 40′51	
direct	6434 Nov 12 10:33	4°) €03'47		max. Earth dist.	6441 Mar 09 01:28	19°) (40′14	31.19008 AU
evening set	6435 Feb 09 11:21	5°) 58'40		morning rise	6441 Mar 24 14:39	20° 升 15′12	
				retrograde	6441 Jun 20 18:12	22°) 09'47	
conjunction	6435 Feb 24 21:00	6°) 33′12	0°32'28	opposition	6441 Sep 08 10:11	20°) 46′56	0°15'03
minimum elong	6435 Feb 24 21:01	6°) 33′12		min. Earth dist.	6441 Sep 08 15:14		29.18648 AU
max. Earth dist.	6435 Feb 24 10:30		31.24427 AU	direct	6441 Nov 27 17:44	19°) 23'10	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
morning rise	6435 Mar 12 05:30	7° ₩ 07'40	31.21127110	evening set	6442 Feb 24 07:23	21°) 17'42	
retrograde	6435 Jun 08 02:24	9° X 01'31		Stelling set	3112100 2T 07.23	21 /(1/72	
opposition		7° ₩ 39'03	0022114	conjunction	6442 Mar 11 16:03	21° ¥ 52'15	0°12'39
	6435 Aug 26 06:45			-		21° X 52'15 21° X 52'15	
min. Earth dist.	6435 Aug 26 16:02		29.23919 AU	minimum elong	6442 Mar 11 16:04		0°12'39
direct	6435 Nov 14 23:26	6° ¥ 15′07		behind sun begin	6442 Mar 11 11:55	21°) 51'53	
evening set	6436 Feb 11 21:10	8° ₩ 09'56		behind sun end	6442 Mar 11 20:13	21°) 52'38	21.10202 :
		0634		max. Earth dist.	6442 Mar 11 11:10		31.18286 AU
conjunction	6436 Feb 27 06:38	8°) 44′28		morning rise	6442 Mar 27 00:25	22°) 26'47	
minimum elong	6436 Feb 27 06:38	8°) 44′28		retrograde	6442 Jun 23 07:48	24°) (21'31	
max. Earth dist.	6436 Feb 26 20:31		31.23381 AU	opposition	6442 Sep 10 22:55	22° ¥ 58'37	
morning rise	6436 Mar 13 15:05	9° ∺ 18'56		min. Earth dist.	6442 Sep 11 02:25	22° ¥ 58′23	29.17913 AU

direct	6442 Nov 30 05:31	21°) 34'54		conjunction	6448 Mar 24 03:25	5° Ƴ 04'05	-0°05'17
evening set	6443 Feb 26 17:07	23°)(29'26		minimum elong	6448 Mar 24 03:24	5° Υ 04'04	0°05'18
evening set	0443160 20 17.07	23 /(2)20		behind sun begin	6448 Mar 23 21:12	5°Υ03'31	0 03 10
conjunction	6443 Mar 14 01:47	24°) €03'59	0°09'43	behind sun end	6448 Mar 24 09:36	5° Υ 04'38	
minimum elong	6443 Mar 14 01:47		0°09'43	max. Earth dist.	6448 Mar 24 02:40		31.12111 AU
behind sun begin	6443 Mar 13 20:29	24°) (03'31	0 07 43	morning rise	6448 Apr 08 11:58	5° Υ 38'43	31.12111 110
behind sun end	6443 Mar 14 07:05	24°) (03'31'		retrograde	6448 Jul 06 04:31	7° Υ 34'12	
max. Earth dist.	6443 Mar 13 21:59	24°) (04'20')	31 17519 AU	opposition	6448 Sep 24 04:46	6°Υ10'52	-0°07'10
morning rise	6443 Mar 29 10:06	24°) (38'32	31.17317710	min. Earth dist.	6448 Sep 24 05:26		29.11449 AU
retrograde	6443 Jun 25 20:03	26°\(\frac{1}{33}\)'25		direct	6448 Dec 13 06:08	4° Υ 47'15	2).1144) 110
opposition	6443 Sep 13 11:54		0°08'45	evening set	6449 Mar 11 04:49	6° Υ 41'28	
min. Earth dist.	6443 Sep 13 15:50	25° X 10'28		evening set	0449 Wai 11 04.49	0 14120	
direct	6443 Dec 02 17:05	23°) (46'49	29.17113 AU	conjunction	6449 Mar 26 13:06	7° Υ 16'05	0000114
		25°) (41'18		•		7° Υ 16'04	0°08'15
evening set	6444 Feb 29 03:04	23 X 4118		minimum elong	6449 Mar 26 13:06	7°Υ15'34	0 08 13
	(444 Man 15 11.20	26°) 15′52	0006146	behind sun begin	6449 Mar 26 07:24	7°Υ16'35	
conjunction	6444 Mar 15 11:39		0°06'46	behind sun end	6449 Mar 26 18:47		21 10004 ATT
minimum elong	6444 Mar 15 11:38		0°06'45	max. Earth dist.	6449 Mar 26 12:12		31.10804 AU
behind sun begin	6444 Mar 15 05:39	26°) 15′20		morning rise	6449 Apr 10 21:54	7°Υ50'44	
behind sun end	6444 Mar 15 17:38	26°) 16′25		retrograde	6449 Jul 08 17:03	9° Y 46′21	
max. Earth dist.	6444 Mar 15 08:17	26°) 15'35 €	31.16678 AU	opposition	6449 Sep 26 17:47	8° Y 22'55	
morning rise	6444 Mar 30 20:00	26°) € 50′26		min. Earth dist.	6449 Sep 26 17:11		29.10173 AU
retrograde	6444 Jun 27 08:09	28°) 45′26		direct	6449 Dec 15 15:59	6° Y 59'17	
opposition	6444 Sep 15 00:40		0°05'34	evening set	6450 Mar 13 14:38	8° Ƴ 53'27	
min. Earth dist.	6444 Sep 15 03:03	27°) 22'18	29.16211 AU				
direct	6444 Dec 04 05:39	25° ¥ 58'50		conjunction	6450 Mar 28 23:02	9° Y 28'04	
evening set	6445 Mar 02 13:08	27° ¥ 53′18		minimum elong	6450 Mar 28 23:02	9° Ƴ 28'04	0°11'12
				behind sun begin	6450 Mar 28 18:15	9° Ƴ 27'38	
conjunction	6445 Mar 17 21:33	28°) €27'52	0°03'48	behind sun end	6450 Mar 29 03:50	9° Ƴ 28'30	
minimum elong	6445 Mar 17 21:34	28° 升 27′52	0°03'48	max. Earth dist.	6450 Mar 29 00:02	9° Ƴ 28'09	31.09559 AU
behind sun begin	6445 Mar 17 15:13	28° ∺ 27'18		morning rise	6450 Apr 13 07:48	10° Y 02'45	
behind sun end	6445 Mar 18 03:54	28° ∺ 28′26		retrograde	6450 Jul 11 03:41	11° Y 58'29	
max. Earth dist.	6445 Mar 17 18:18	28° ∺ 27'36 3	31.15711 AU	opposition	6450 Sep 29 06:49	10° Ƴ 34'58	-0°13'29
morning rise	6445 Apr 02 05:59	29° ₩ 02'27		min. Earth dist.	6450 Sep 29 05:48	10° Ƴ 35′02	29.08983 AU
	6445 Apr 30 13:06	0° Y		direct	6450 Dec 18 03:14	9° Ƴ 11'21	
retrograde	6445 Jun 29 19:52	0° Y 57'36		evening set	6451 Mar 16 00:31	11° Y 05'29	
	6445 Sep 01 16:19	30°₽)					
opposition	6445 Sep 17 13:49	29°) 34'33	0°02'23	conjunction	6451 Mar 31 08:51	11° Y 40'06	-0°14'07
min. Earth dist.	6445 Sep 17 16:37	29°) 34'22	29.15188 AU	minimum elong	6451 Mar 31 08:51	11° Y 40'06	0°14'08
direct	6445 Dec 06 17:22	28°)(10'57		behind sun begin	6451 Mar 31 05:35	11° Y 39'48	
	6446 Mar 02 12:32	$_{0}$ $^{\circ}$ Υ		behind sun end	6451 Mar 31 12:07	11° Y 40'23	
evening set	6446 Mar 04 22:59	0° Y 05′22		max. Earth dist.	6451 Mar 31 10:15		31.08433 AU
<i>8</i>				morning rise	6451 Apr 15 17:51	12° Y 14'48	
conjunction	6446 Mar 20 07:29	0° Y 39'56	0°00'46	retrograde	6451 Jul 13 17:20	14° Y 10'41	
minimum elong	6446 Mar 20 07:29		0°00'46	opposition	6451 Oct 01 19:43	12° Υ 47'06	-0°16'38
behind sun begin	6446 Mar 20 01:06	0° Υ 39'22	0 00 10	min. Earth dist.	6451 Oct 01 16:50		29.07914 AU
behind sun end	6446 Mar 20 13:52	0° Υ 40'31		direct	6451 Dec 20 14:40	11° Y 23'30	25.07511110
max. Earth dist.	6446 Mar 20 05:26		31.14624 AU	evening set	6452 Mar 17 10:25	13° Y 17'37	
morning rise	6446 Apr 04 15:53	1°Υ14'33	31.11021710	evening sec	0132 11111 17 10.23	15 1757	
desc. node	6446 Jun 19 17:58	3° Υ 07'12		conjunction	6452 Apr 01 18:48	13° Y 52'15	-0°17'02
retrograde	6446 Jul 02 07:04	3° Υ 09'48		minimum elong	6452 Apr 01 18:48	13°Y52'15	
opposition	6446 Sep 20 02:51	1° Υ 46'41 -	-0°00'48	max. Earth dist.	6452 Apr 01 21:30		31.07410 AU
min. Earth dist.	6446 Sep 20 04:26		29.14025 AU	morning rise	6452 Apr 17 03:51	14° Υ 26'59	31.07410 AC
direct	6446 Dec 09 06:52	0°Υ23'05	2).14023 AU	retrograde	6452 Jul 15 05:45	16° Υ 23'01	
	6447 Mar 07 09:04	2° Υ 17'26		opposition	6452 Oct 03 08:44	14° Y 59'22	0910145
evening set	044 / Mai 0 / 09.04	2 11/20		min. Earth dist.	6452 Oct 03 05:53		29.06949 AU
aamiumatian	6447 Mar 22 17:24	2°Υ52'02 -	0002110	direct	6452 Dec 22 01:24	14 γ 39 34 13° γ 35'49	29.00949 AU
conjunction							
minimum elong	6447 Mar 22 17:24	2°Υ52'02	0 02 18	evening set	6453 Mar 19 20:21	15° Y 29'56	
behind sun begin	6447 Mar 22 11:00	2° Y 51'27 2° Y 52'36			6452 4 04 04 47	160000425	0010157
behind sun end	6447 Mar 22 23:48		21 12405 433	conjunction	6453 Apr 04 04:47	16° Y 04'35	
max. Earth dist.	6447 Mar 22 14:59		31.13405 AU	minimum elong	6453 Apr 04 04:47	16° Y 04'35	
morning rise	6447 Apr 07 02:02	3° Υ 26'39		max. Earth dist.	6453 Apr 04 08:30		31.06504 AU
retrograde	6447 Jul 04 18:54	5°Υ22'02	0000:50	morning rise	6453 Apr 19 13:59	16° Y 39'20	
opposition	6447 Sep 22 15:46	3°Υ58'48 -		retrograde	6453 Jul 17 18:37	18° Y 35'31	0000:50
min. Earth dist.	6447 Sep 22 17:16		29.12766 AU	opposition	6453 Oct 05 21:46	17° Y 11'51	
direct	6447 Dec 11 17:31	2° Υ 35'11		min. Earth dist.	6453 Oct 05 16:52		29.06079 AU
evening set	6448 Mar 08 18:55	4° Ƴ 29'29		direct	6453 Dec 24 13:24	15° Y 48′21	
				evening set	6454 Mar 22 06:20	17° Ƴ 42'27	

aaniunation	6454 Apr 06 14:44	18° Ƴ 17'07	0°22'40	retrograde	6460 Aug 02 08:36	4° 8 08'02	
conjunction minimum elong	6454 Apr 06 14:44	18° Y 17'07			6460 Oct 21 18:19	2° 8 43'58	0042121
C				opposition		_	
max. Earth dist.	6454 Apr 06 18:55		31.05660 AU	min. Earth dist.	6460 Oct 21 09:29		28.99299 AU
morning rise	6454 Apr 22 00:09	18° Y 51'54		direct	6461 Jan 09 00:11	1° 8 20'36	
retrograde	6454 Jul 20 07:40	20° Y 48′15		evening set	6461 Apr 06 06:45	3° 8 14'28	
opposition	6454 Oct 08 10:58	19° Y 24'32					
min. Earth dist.	6454 Oct 08 06:13		29.05265 AU	conjunction	6461 Apr 21 15:51	3° 8 49'15	
direct	6454 Dec 27 01:08	18° Ƴ 01'06		minimum elong	6461 Apr 21 15:51	3° 8 49'15	0°41'52
evening set	6455 Mar 24 16:24	19° Ƴ 55'11		max. Earth dist.	6461 Apr 22 00:30	3° 8 50'04	30.98674 AU
				morning rise	6461 May 07 02:35	4° 8 24'12	
conjunction	6455 Apr 09 00:59	20° Y 29′53	-0°25'40	retrograde	6461 Aug 04 20:29	6° 8 21'25	
minimum elong	6455 Apr 09 00:58	20° Ƴ 29'53	0°25'40	opposition	6461 Oct 24 07:40	4° 8 57'13	-0°46'04
max. Earth dist.	6455 Apr 09 06:41	20° Ƴ 30′25	31.04856 AU	min. Earth dist.	6461 Oct 23 23:06	4° 8 57'48	28.98103 AU
morning rise	6455 Apr 24 10:27	21° Y '04'41		direct	6462 Jan 11 10:47	3° 8 33'50	
retrograde	6455 Jul 22 20:30	23° Ƴ 01'10		evening set	6462 Apr 08 17:05	5° 8 27'38	
opposition	6455 Oct 10 23:54	21° Y 37'27	-0°28'56	, and the second	1		
min. Earth dist.	6455 Oct 10 17:49		29.04452 AU	conjunction	6462 Apr 24 02:22	6° 8 02'26	-0°44'20
direct	6455 Dec 29 14:34	20°Υ14'04	29.01.02110	minimum elong	6462 Apr 24 02:22	6° 8 02'26	
evening set	6456 Mar 26 02:44	22° Υ 08'09		max. Earth dist.	6462 Apr 24 12:01	_	30.97511 AU
evening set	0430 Mai 20 02.44	22 1 08 09		morning rise	6462 May 09 13:21	6° 8 37'24	30.97311 AO
:	(45(A 10 11.12	22° Ƴ 42'51	0020120	•		8° 8 34'42	
conjunction	6456 Apr 10 11:13			retrograde	6462 Aug 07 09:45	_	00.40142
minimum elong	6456 Apr 10 11:13	22° Y 42'51	0°28'30	opposition	6462 Oct 26 20:48	7° 8 10'25	
max. Earth dist.	6456 Apr 10 16:38		31.04030 AU	min. Earth dist.	6462 Oct 26 10:17		28.96980 AU
morning rise	6456 Apr 25 21:00	23° Y 17'41		direct	6463 Jan 13 23:14	5° 8 47'00	
retrograde	6456 Jul 24 08:57	25° Ƴ 14'20		evening set	6463 Apr 11 03:39	7° 8 40'47	
opposition	6456 Oct 12 13:11	23° Y 50'34					
min. Earth dist.	6456 Oct 12 07:01		29.03611 AU	conjunction	6463 Apr 26 12:59	8° 8 15'35	-0°46'46
direct	6456 Dec 31 01:05	22° Ƴ 27'14		minimum elong	6463 Apr 26 12:59	8° 8 15'35	
evening set	6457 Mar 28 12:54	24° Y 21'18		max. Earth dist.	6463 Apr 26 22:58	8° 8 16'31	30.96431 AU
				morning rise	6463 May 12 00:17	8° 8 50'35	
conjunction	6457 Apr 12 21:37	24° Ƴ 56′01	-0°31'14	retrograde	6463 Aug 09 23:09	10° 8 47'59	
minimum elong	6457 Apr 12 21:37	24° Y 56'01	0°31'15	opposition	6463 Oct 29 09:55	9° 8 23'37	-0°51'17
max. Earth dist.	6457 Apr 13 04:38	24° Y 56'41	31.03144 AU	min. Earth dist.	6463 Oct 28 23:30	9° 8 24'19	28.95971 AU
morning rise	6457 Apr 28 07:24	25° Ƴ 30'53		direct	6464 Jan 16 10:49	8° 8 00'12	
retrograde	6457 Jul 26 19:26	27° Ƴ 27'40		evening set	6464 Apr 12 14:07	9° 8 53'57	
opposition	6457 Oct 15 02:32	26° Y 03'51	-0°34'51	8 - 1 - 1	r		
min. Earth dist.	6457 Oct 14 19:41		29.02678 AU	conjunction	6464 Apr 27 23:46	10° 8 28'47	-0°49'08
direct	6458 Jan 02 14:09	24° Υ 40'33	29.02070110	minimum elong	6464 Apr 27 23:46		0°49'11
evening set	6458 Mar 30 23:26	26° Υ 34'35		max. Earth dist.	6464 Apr 28 11:27	_	30.95483 AU
evening set	0436 Wai 30 23.20	20 1 34 33			•		30.93463 AU
	C450 A 15 00 05	27° Ƴ 09'19	0022150	morning rise	6464 May 13 11:10	11° 8 03'48	
conjunction	6458 Apr 15 08:05			retrograde	6464 Aug 11 12:21	13° 8 01'19	0052147
minimum elong	6458 Apr 15 08:05	27° Y 09'19		opposition	6464 Oct 30 23:02	11° 8 36'53	
max. Earth dist.	6458 Apr 15 14:30		31.02165 AU	min. Earth dist.	6464 Oct 30 10:57		28.95082 AU
morning rise	6458 Apr 30 18:14	27° Y 44'12		direct	6465 Jan 18 00:07	10° 8 13'30	
retrograde	6458 Jul 29 08:56	29° Ƴ 41'07		evening set	6465 Apr 15 00:39	12° 8 07'14	
opposition	6458 Oct 17 15:47	28° Ƴ 17'14					
min. Earth dist.	6458 Oct 17 08:13		29.01651 AU	conjunction	6465 Apr 30 10:19	12° 8 42'05	
direct	6459 Jan 05 00:40	26° Y 53'56		minimum elong	6465 Apr 30 10:19	12° 8 42'05	
evening set	6459 Apr 02 09:50	28° Ƴ 47'55		max. Earth dist.	6465 Apr 30 21:58	12° 8 43'11	30.94655 AU
				morning rise	6465 May 15 22:10	13° 8 17'08	
conjunction	6459 Apr 17 18:45	29° Ƴ 22'40	-0°36'39		6465 Jul 14 23:19	15° 8	
minimum elong	6459 Apr 17 18:45	29° Ƴ 22'40	0°36'40	retrograde	6465 Aug 14 01:32	15° 8 14'47	
max. Earth dist.	6459 Apr 18 02:26	29° Ƴ 23′23	31.01072 AU		6465 Sep 13 16:46	15° ₹ 8	
morning rise	6459 May 03 05:00	29° Ƴ 57'35		opposition	6465 Nov 02 12:20	13° 8 50'19	-0°56'12
8	6459 May 04 07:09	0°8		min. Earth dist.	6465 Nov 01 23:56		28.94321 AU
retrograde	6459 Jul 31 19:42	1° 8 54'36		direct	6466 Jan 20 10:42	12° 8 26'58	20.9 .521 110
opposition	6459 Oct 20 05:08	0° 8 30'37	-0°40'35	evening set	6466 Apr 17 11:15	14° 8 20'41	
min. Earth dist.	6459 Oct 19 21:41		29.00503 AU	croning set	0.0071pi 17 11.13	11 02041	
mm. Earth dist.	6459 Nov 08 08:07	0 O 31 08	27.00303 AU	conjunction	6466 May 02 21:17	14° 8 55'34	0°53'40
direct		•		conjunction	6466 May 02 21:17		
direct	6460 Jan 07 12:52	29° Y 07'18		minimum elong	6466 May 02 21:17	14° 8 55'34	
	6460 Mar 04 11:41	0° 8		max. Earth dist.	6466 May 03 10:49		30.93938 AU
evening set	6460 Apr 03 20:19	1° 8 01'14			6466 May 04 19:58	15° 8	
				morning rise	6466 May 18 09:15	15° 8 30'39	
conjunction	6460 Apr 19 05:16	1° 8 35'59		retrograde	6466 Aug 16 13:21	17° 8 28'24	
minimum elong	6460 Apr 19 05:15	1° 8 35'59	0°39'18	opposition	6466 Nov 05 01:26	16° 8 03'56	-0°58'32
max. Earth dist.	6460 Apr 19 12:55	1° 8 36'43	30.99892 AU	min. Earth dist.	6466 Nov 04 12:10	16° 8 04'50	28.93643 AU
morning rise	6460 May 04 15:48	2° 8 10'56			6466 Dec 19 04:56	15° ₹ 8	

direct	6467 Jan 22 23:47	14° 8 40'38	conjunction	6473 May 18 04:35	0° Д 35'38 -1°06'50
uncer	6467 Feb 25 17:42	15° 8	minimum elong	6473 May 18 04:35	0° П 35'38 1°06'52
evening set	6467 Apr 19 22:05	16° 8 34'22	max. Earth dist.	6473 May 18 20:47	0°П37'10 30.88622 AU
	· · · · · · · · · · · · · · · · · · ·		morning rise	6473 Jun 02 18:49	1° I 10'56
conjunction	6467 May 05 08:11	17° 8 09'16 -0°55'49	retrograde	6473 Sep 01 10:22	3° П 09'25
minimum elong	6467 May 05 08:11	17° 8 09'16 0°55'51	opposition	6473 Nov 20 22:10	1° Ⅱ 44'40 -1°12'17
max. Earth dist.	6467 May 05 21:20	17° 8 10'31 30.93297 AU	min. Earth dist.	6473 Nov 20 06:08	1° I 45'46 28.88174 AU
morning rise	6467 May 20 20:37	17° 8 44'23	direct	6474 Feb 07 08:50	0° Ⅱ 21′25
retrograde	6467 Aug 19 03:48	19° 8 42'16	evening set	6474 May 05 04:13	2° Ⅱ 15′06
opposition	6467 Nov 07 14:38	18° 8 17'47 -1°00'48	Č	,	
min. Earth dist.	6467 Nov 07 00:34	18° 8 18'45 28.93027 AU	conjunction	6474 May 20 16:07	2° I 50'10 -1°08'20
direct	6468 Jan 25 10:26	16° 8 54'32	minimum elong	6474 May 20 16:07	2° I 50'10 1°08'22
evening set	6468 Apr 21 08:53	18° 8 48'17	max. Earth dist.	6474 May 21 07:53	2° Д 51'40 30.87639 AU
S	1		morning rise	6474 Jun 05 06:53	3° Ⅱ 25'30
conjunction	6468 May 06 19:17	19° 8 23'12 -0°57'52	retrograde	6474 Sep 03 23:56	5° Ⅱ 24′01
minimum elong	6468 May 06 19:17	19° 8 23'12 0°57'55	opposition	6474 Nov 23 11:13	3° 耳 59'11 -1°13'50
max. Earth dist.	6468 May 07 09:53	19° 8 24'36 30.92675 AU	min. Earth dist.	6474 Nov 22 19:20	4° Д 00'17 28.87229 AU
morning rise	6468 May 22 07:52	19° 8 58'22	direct	6475 Feb 09 19:48	2° Ⅱ 35'54
retrograde	6468 Aug 20 15:03	21° 8 56'24	evening set	6475 May 07 15:28	4° Ⅱ 29'33
opposition	6468 Nov 09 03:56	20° 8 31'54 -1°02'57	evening sec	0170111119 07 10.20	
min. Earth dist.	6468 Nov 08 13:56	20° 8 32'52 28.92404 AU	conjunction	6475 May 23 03:51	5° Ⅱ 04'39 -1°09'43
direct	6469 Jan 26 22:24	19° 8 08'42	minimum elong	6475 May 23 03:51	5° П 04'38 1°09'46
evening set	6469 Apr 23 19:59	21° 8 02'28	max. Earth dist.	6475 May 23 21:14	5° П 06'18 30.86722 AU
evening set	0409 Apr 23 19.39	21 002 26	morning rise	6475 Jun 07 18:48	5°II40'00
aamiumatiam	6469 May 09 06:32	21° 8 37'24 -0°59'51	•		7° П 38'33
conjunction	•	• • • • • • • • • • • • • • • • • • • •	retrograde	6475 Sep 06 13:03	
minimum elong	6469 May 09 06:32	21° 8 37'24 0°59'53	min. Earth dist.	6475 Nov 25 07:32	6° Ⅱ 14'48 28.86360 AU
max. Earth dist.	6469 May 09 21:01	21° 8 38'47 30.92045 AU	opposition	6475 Nov 26 00:13	6° Ⅱ 13'39 -1°15'16
morning rise	6469 May 24 19:30	22° 8 12'36	direct	6476 Feb 12 10:04	4° Ⅱ 50'20
retrograde	6469 Aug 23 04:42	24° 8 10'45	evening set	6476 May 09 02:48	6° Ⅱ 43'58
opposition	6469 Nov 11 17:11	22° 8 46'15 -1°05'01			
min. Earth dist.	6469 Nov 11 02:06	22° 8 47'17 28.91749 AU	conjunction	6476 May 24 15:20	7° Ⅱ 19'05 -1°11'01
direct	6470 Jan 29 09:11	21° 8 23'05	minimum elong	6476 May 24 15:20	7° I 19'05 1°11'04
evening set	6470 Apr 26 07:06	23° 8 16'51	max. Earth dist.	6476 May 25 08:19	7° II 20'42 30.85913 AU
			morning rise	6476 Jun 09 06:48	7° Ⅱ 54'28
conjunction	6470 May 11 17:55	23° 8 51'50 -1°01'44	retrograde	6476 Sep 08 03:33	9° Ⅱ 53′04
minimum elong	6470 May 11 17:55	23° 8 51'50 1°01'47	opposition	6476 Nov 27 13:14	8° Ⅱ 28'07 -1°16'35
max. Earth dist.	6470 May 12 08:56	23° 8 53'15 30.91334 AU	min. Earth dist.	6476 Nov 26 19:46	8° Ⅱ 29'19 28.85623 AU
morning rise	6470 May 27 07:11	24° 8 27'03	direct	6477 Feb 13 21:46	7° Ⅱ 04'46
retrograde	6470 Aug 25 17:06	26° 8 25'20	evening set	6477 May 11 14:09	8° Ⅱ 58′23
opposition	6470 Nov 14 06:34	25° 8 00'47 -1°06'59			
min. Earth dist.	6470 Nov 13 16:16	25° 8 01'46 28.90993 AU	conjunction	6477 May 27 03:08	9° Ⅲ 33'31 -1°12'12
direct	6471 Jan 31 19:16	23° 8 37'38	minimum elong	6477 May 27 03:08	9° Ⅲ 33'31 1°12'15
evening set	6471 Apr 28 18:24	25° 8 31'24	max. Earth dist.	6477 May 27 21:36	9° 耳 35'17 30.85232 AU
			morning rise	6477 Jun 11 18:51	10° Ⅱ 08'57
conjunction	6471 May 14 05:32	26° 8 06'24 -1°03'32	retrograde	6477 Sep 10 14:41	12° Ⅲ 07'36
minimum elong	6471 May 14 05:32	26° 8 06'24 1°03'34	min. Earth dist.	6477 Nov 29 08:37	10° Ⅲ 43'49 28.85011 AU
max. Earth dist.	6471 May 14 20:47	26° 8 07'51 30.90525 AU	opposition	6477 Nov 30 02:13	10° I I42'36 -1°17'48
morning rise	6471 May 29 19:05	26° 8 41'39	direct	6478 Feb 16 10:04	9° Ⅱ 19'15
retrograde	6471 Aug 28 06:59	28° 8 40'00	evening set	6478 May 14 01:36	11° Ⅲ 12'52
opposition	6471 Nov 16 19:40	27° 8 15'25 -1°08'51			
min. Earth dist.	6471 Nov 16 04:08	27° 8 16'30 28.90123 AU	conjunction	6478 May 29 14:54	11° Ⅱ 48'01 -1°13'16
direct	6472 Feb 03 07:45	25° 8 52'15	minimum elong	6478 May 29 14:54	11° Ⅱ 48'01 1°13'19
evening set	6472 Apr 30 05:44	27° 8 46'01	max. Earth dist.	6478 May 30 09:22	11° Ⅱ 49'46 30.84694 AU
	•		morning rise	6478 Jun 14 07:07	12° Ⅲ 23′28
conjunction	6472 May 15 17:03	28° 8 21'02 -1°05'14	retrograde	6478 Sep 13 04:19	14° Ⅱ 22'10
minimum elong	6472 May 15 17:03	28° 8 21'02 1°05'16	opposition	6478 Dec 02 15:06	12° Д 57'09 -1°18'53
max. Earth dist.	6472 May 16 08:00	28° 8 22'27 30.89600 AU	min. Earth dist.	6478 Dec 01 20:18	12° Д 58'27 28.84530 AU
morning rise	6472 May 31 07:03	28° 8 56'18	direct	6479 Feb 18 21:26	11° Д 33'49
	6472 Jul 01 19:26	0°II	evening set	6479 May 16 13:11	13° Ц 27'25
retrograde	6472 Aug 29 20:51	0° П 54'44		5.,, 1.1u _j 10 15.11	-3, _3
- Cirogrado	6472 Oct 30 20:22	30°R 8	conjunction	6479 Jun 01 02:50	14° Ⅱ 02'36 -1°14'14
onnosition		29° と 30'04 -1°10'37	·	6479 Jun 01 02:30	14 H 0236 -1 1414 14° H 02'36 1°14'17
opposition min. Earth dist.	6472 Nov 18 09:01	29°\(\delta\)31'05 28.89166 AU	minimum elong max. Earth dist.	6479 Jun 01 02:49 6479 Jun 01 22:03	14° Д 02'36 1°14'17 14° Д 04'26 30.84252 AU
	6472 Nov 17 18:10	28° 8 06'52			14° II 38'05
direct	6473 Feb 04 19:26		morning rise	6479 Jun 16 19:24	
evening set	6473 May 02 16:49	0° П 00'35	retrograde	6479 Sep 15 16:40	16° I 36'51
	6473 May 02 10:27	0°Щ	min. Earth dist.	6479 Dec 04 09:48	15° Ⅱ 13'05 28.84138 AU
			opposition	6479 Dec 05 04:00	15° Ⅱ 11'49 -1°19'51

direct	6480 Feb 21 07:51	13° Ⅱ 48′30	max. Earth dist.	6486 Jun 17 13:37	29° Ⅱ 49'36 30.81174 AU
evening set	6480 May 18 00:49	15° Ⅱ 42'07		6486 Jun 22 03:30	0ං ව
			morning rise	6486 Jul 02 12:56	0°523'22
conjunction	6480 Jun 02 14:52	16° Ⅱ 17'20 -1°15'05	retrograde	6486 Oct 01 15:43	2° © 22'18
minimum elong	6480 Jun 02 14:52	16° Ⅱ 17'20 1°15'08	opposition	6486 Dec 20 21:47	0°557'05 -1°23'10
max. Earth dist.	6480 Jun 03 10:37	16° Ⅱ 19'12 30.83906 AU	J min. Earth dist.	6486 Dec 20 03:10	0°958'23 28.80966 AU
morning rise	6480 Jun 18 07:49	16° Ⅱ 52'50		6487 Jan 27 09:51	30°RⅡ
retrograde	6480 Sep 17 06:01	18° Ⅱ 51'39	direct	6487 Mar 08 20:45	29° Ⅱ 33'37
opposition	6480 Dec 06 16:52	17° Ⅱ 26'38 -1°20'42		6487 Apr 17 03:51	0° ©
min. Earth dist.	6480 Dec 05 21:21	17° Ⅱ 27'59 28.83813 AU	J evening set	6487 Jun 03 13:06	1° 5 27'15
direct	6481 Feb 22 19:54	16° Ⅱ 03'19			
evening set	6481 May 20 12:35	17° Ⅱ 56′57	conjunction	6487 Jun 19 05:57	2° 5 02'39 -1°17'47
			minimum elong	6487 Jun 19 05:57	2° © 02'39 1°17'49
conjunction	6481 Jun 05 02:54	18° Ⅱ 32'12 -1°15'49	max. Earth dist.	6487 Jun 20 01:40	2°504'31 30.80637 AU
minimum elong	6481 Jun 05 02:54	18° Ⅱ 32'12 1°15'52	morning rise	6487 Jul 05 01:56	2° 9 38'21
max. Earth dist.	6481 Jun 05 22:25	18° Ⅱ 34'03 30.83585 AU	Č	6487 Oct 04 05:55	4° 9 37'16
morning rise	6481 Jun 20 20:22	19° Ⅱ 07'44	opposition	6487 Dec 23 10:10	3°512'01 -1°23'09
retrograde	6481 Sep 19 19:15	21° Ⅱ 06'37	min. Earth dist.	6487 Dec 22 14:44	3°513'22 28.80476 AU
min. Earth dist.	6481 Dec 08 11:18	19° Ⅱ 42'53 28.83497 AU		6488 Mar 10 08:49	1°9548'30
opposition	6481 Dec 09 05:55	19° Ⅱ 41'35 -1°21'26	evening set	6488 Jun 05 01:16	3°9542'08
direct	6482 Feb 25 06:24	18° Ⅱ 18'17			
evening set	6482 May 23 00:31	20° Ⅱ 11'57	conjunction	6488 Jun 20 18:33	4°917'34 -1°17'42
			minimum elong	6488 Jun 20 18:33	4°9517'34 1°17'44
conjunction	6482 Jun 07 15:22	20° I 47'13 -1°16'26	max. Earth dist.	6488 Jun 21 14:55	4°519'30 30.80193 AU
minimum elong	6482 Jun 07 15:23	20° Ⅱ 47'13 1°16'29	morning rise	6488 Jul 06 14:56	4° 9 53'18
max. Earth dist.	6482 Jun 08 11:43	20° Ⅱ 49'09 30.83251 AU	Č	6488 Oct 05 18:11	6° 9 52'12
morning rise	6482 Jun 23 09:06	21° Ⅱ 22'47	opposition	6488 Dec 24 22:42	5° © 26'55 -1°23'00
retrograde	6482 Sep 22 08:55	23° Ⅱ 21'43	min. Earth dist.	6488 Dec 24 03:55	5° © 28'14 28.80104 AU
opposition	6482 Dec 11 18:38	21° I 56'40 -1°22'01	direct	6489 Mar 12 19:48	4° © 03'22
min. Earth dist.	6482 Dec 10 23:15	21° Д 58'01 28.83126 AU	J evening set	6489 Jun 07 13:20	5° 9 57'00
direct	6483 Feb 27 18:49	20° Ⅲ 33′22			_
evening set	6483 May 25 12:44	22° Ⅲ 27′03	conjunction	6489 Jun 23 07:07	6°\$32'27 -1°17'30
		_	minimum elong	6489 Jun 23 07:07	6°\$32'27 1°17'32
conjunction	6483 Jun 10 03:49	23° I 102'20 -1°16'56	max. Earth dist.	6489 Jun 24 03:52	6°534'25 30.79902 AU
minimum elong	6483 Jun 10 03:49	23° I 02'20 1°16'59	morning rise	6489 Jul 09 03:56	7° © 08'13
max. Earth dist.	6483 Jun 10 23:05	23° I 104'10 30.82836 AU	· ·	6489 Oct 08 06:46	9° © 07'06
morning rise	6483 Jun 25 22:07	23° Ⅲ 37′56	opposition	6489 Dec 27 11:02	7°541'49 -1°22'43
retrograde	6483 Sep 24 23:23	25° Ⅲ 36'54	min. Earth dist.	6489 Dec 26 14:59	7°5643'13 28.79883 AU
opposition	6483 Dec 14 07:37	24°Ⅲ11'50 -1°22'30	direct	6490 Mar 15 07:57	6°518'14
min. Earth dist.	6483 Dec 13 13:00	24°Ⅲ13'08 28.82673 AU	J evening set	6490 Jun 10 01:41	8° © 11'53
direct	6484 Mar 01 05:53	22° Ⅱ 48'30			
evening set	6484 May 27 00:40	24° Ⅱ 42'11	conjunction	6490 Jun 25 19:49	8°547'22 -1°17'11
			minimum elong	6490 Jun 25 19:49	8°547'22 1°17'13
conjunction	6484 Jun 11 16:19	25° Ⅲ 17'30 -1°17'19	max. Earth dist.	6490 Jun 26 16:20	8°549'18 30.79750 AU
minimum elong	6484 Jun 11 16:19	25° I 17'30 1°17'23	morning rise	6490 Jul 11 17:10	9°\$23'09
max. Earth dist.	6484 Jun 12 12:37	25°Ⅲ19'26 30.82332 AU	Č	6490 Oct 10 18:57	11°S22'02
morning rise	6484 Jun 27 10:52	25°Ⅲ53'08	opposition	6490 Dec 29 23:20	9°\$56'45 -1°22'19
retrograde	6484 Sep 26 13:08	27° II 52'05	min. Earth dist.	6490 Dec 29 04:04	9°558'06 28.79814 AU
opposition	6484 Dec 15 20:28	26°II26'59 -1°22'51	direct	6491 Mar 17 17:45	8°533'10
min. Earth dist.	6484 Dec 15 01:35	26° Ⅱ 28'18 28.82122 AU	J evening set	6491 Jun 12 13:56	10°526'51
direct	6485 Mar 03 20:01	25° Ⅱ 03'37		C401 I 20 00 41	110600101 1017/44
evening set	6485 May 29 12:52	26° Ⅱ 57'17	conjunction	6491 Jun 28 08:41	11°502'21 -1°16'44
	C405 I 14 04.40	270T22120 1017125	minimum elong	6491 Jun 28 08:41	11°502'21 1°16'48
conjunction	6485 Jun 14 04:49	27° I 32'38 -1°17'35	max. Earth dist.	6491 Jun 29 06:09	11°504'23 30.79760 AU
minimum elong	6485 Jun 14 04:48	27° I 32'38 1°17'39	morning rise	6491 Jul 14 06:20	11°938'10
max. Earth dist.	6485 Jun 15 00:00	27° ∏ 34'27 30.81762 AU	•	6491 Oct 13 08:13	13°537'02
morning rise	6485 Jun 29 23:58	28°∏08'17 0°©	opposition	6492 Jan 01 11:34	12°511'47 -1°21'47
ratragrada	6485 Sep 08 02:06		min. Earth dist.	6491 Dec 31 15:16	12°513'13 28.79884 AU
retrograde	6485 Sep 29 03:43	0°\$07'14	direct	6492 Mar 19 05:07	10°548'13
onnosition	6485 Oct 20 07:14	30°RⅡ 20°Ⅲ42'05 1°22'04	evening set	6492 Jun 14 02:17	12°©41'55
opposition	6485 Dec 18 09:10	28° II 42'05 -1°23'04	I	6402 I 20 21 10	1296217127 1017111
min. Earth dist.	6485 Dec 17 14:16	28°∏43'24 28.81542 AU	3	6492 Jun 29 21:19	13°517'27 -1°16'11
direct	6486 Mar 06 07:53	27° I 18'39	minimum elong	6492 Jun 29 21:19	13°517'27 1°16'14
evening set	6486 Jun 01 00:57	29° Ⅱ 12'18	max. Earth dist.	6492 Jun 30 18:04	13°5519'25 30.79895 AU
	(40) I 10 15 25	200T47!41 1015!45	morning rise	6492 Jul 15 19:34	13°553'18
conjunction	6486 Jun 16 17:27	29°II47'41 -1°17'45	retrograde	6492 Oct 14 22:03	15°952'10
minimum elong	6486 Jun 16 17:27	29° Ⅱ 47'41 1°17'48	opposition	6493 Jan 02 23:59	14°\$26'57 -1°21'07

i. David diet	(402 I 02 04-19	14°\$28'20 28.80077 AU		(400 A 01 10-21	29° © 40'59
min. Earth dist.	6493 Jan 02 04:18	14 \$28 20 28.80077 AU 13°\$03'23	morning rise	6499 Aug 01 19:31	29 34 0 39 0° Ω
direct	6493 Mar 21 15:49		. 1	6499 Aug 10 14:44	
evening set	6493 Jun 16 14:45	14° © 57'07	retrograde	6499 Oct 31 20:34	1° Ω 39'26
			opposition	6500 Jan 19 12:45	0°Ω14'16 -1°13'06
conjunction	6493 Jul 02 10:25	15°932'42 -1°15'31	min. Earth dist.	6500 Jan 18 19:46	0° Ω 15'28 28.80976 AU
minimum elong	6493 Jul 02 10:25	15° © 32'42 1°15'34		6500 Jan 28 00:36	30° ₹ 5
max. Earth dist.	6493 Jul 03 08:18	15°934'45 30.80127 AU	direct	6500 Apr 07 05:20	28° © 50'28
morning rise	6493 Jul 18 08:57	16° © 08'33		6500 Jun 12 01:31	0 $^{\circ}\Omega$
retrograde	6493 Oct 17 11:45	18° © 07'25	evening set	6500 Jul 03 08:41	0° Ω 44'15
opposition	6494 Jan 05 12:08	16°9542'15 -1°20'20			
min. Earth dist.	6494 Jan 04 16:20	16°5643'38 28.80327 AU	conjunction	6500 Jul 19 07:35	1° Ω 19'59 -1°07'38
direct	6494 Mar 24 04:56	15° © 18'41	minimum elong	6500 Jul 19 07:35	1° Ω 19'59 1°07'40
evening set	6494 Jun 19 03:32	17°9512'28	max. Earth dist.	6500 Jul 20 02:51	1° Ω 21'48 30.80971 AU
C			morning rise	6500 Aug 04 09:06	1° Ω 55'59
conjunction	6494 Jul 04 23:31	17°5548'04 -1°14'43	retrograde	6500 Nov 03 09:00	3° Ω 54′21
minimum elong	6494 Jul 04 23:31	17°5548'04 1°14'46	min. Earth dist.	6501 Jan 21 06:46	2°Ω30'25 28.81101 AU
max. Earth dist.	6494 Jul 05 20:03	17°550'01 30.80390 AU	opposition	6501 Jan 22 00:31	2°Ω29'10 -1°11'30
morning rise	6494 Jul 20 22:39	18° \$ 23'58	direct	6501 Apr 09 17:28	1° Ω 05'18
•		20°\$22'49		-	
retrograde	6494 Oct 20 02:25		evening set	6501 Jul 05 21:43	2° Ω 59'05
min. Earth dist.	6495 Jan 07 04:55	18°S59'02 28.80585 AU			
opposition	6495 Jan 08 00:23	18°\$57'40 -1°19'25	conjunction	6501 Jul 21 20:55	3° Ω 34'50 -1°06'05
direct	6495 Mar 26 16:01	17° 9 34'07	minimum elong	6501 Jul 21 20:55	3° Ω 34'50 1°06'08
evening set	6495 Jun 21 16:18	19° © 27'56	max. Earth dist.	6501 Jul 22 15:09	3° Ω 36'33 30.81151 AU
			morning rise	6501 Aug 06 22:58	4° Ω 10'51
conjunction	6495 Jul 07 12:49	20°903'34 -1°13'49	retrograde	6501 Nov 05 21:11	6° Ω 09'07
minimum elong	6495 Jul 07 12:49	20°503'34 1°13'51	opposition	6502 Jan 24 12:11	4° Ω 43'56 -1°09'47
max. Earth dist.	6495 Jul 08 09:53	20°905'33 30.80612 AU	min. Earth dist.	6502 Jan 23 19:20	4° Ω 45'08 28.81350 AU
morning rise	6495 Jul 23 12:12	20°\$39'28	direct	6502 Apr 12 04:01	3° Ω 20'03
retrograde	6495 Oct 22 15:37	22° © 38'17	evening set	6502 Jul 08 10:36	5° Ω 13'50
opposition	6496 Jan 10 12:37	21°513'10 -1°18'23	7 · · · · · · · · · · · · · · · · · · ·		
min. Earth dist.	6496 Jan 09 17:52	21°S14'29 28.80769 AU	conjunction	6502 Jul 24 10:26	5° Ω 49'36 -1°04'26
direct	6496 Mar 28 04:57	19°9549'36	minimum elong	6502 Jul 24 10:26	5°Ω49'36 1°04'28
			_		= =
evening set	6496 Jun 23 05:14	21°9543'25	max. Earth dist.	6502 Jul 25 05:37	5°Ω51'24 30.81465 AU
			morning rise	6502 Aug 09 12:42	6° Ω 25'38
conjunction	6496 Jul 09 02:09	22° © 19'05 -1°12'47	retrograde	6502 Nov 08 09:20	8° Ω 23'49
minimum elong	6496 Jul 09 02:09	22°519'05 1°12'50	opposition	6503 Jan 26 23:47	6° Ω 58'40 -1°07'58
max. Earth dist.	6496 Jul 09 21:59	22°520'57 30.80769 AU	min. Earth dist.	6503 Jan 26 06:42	6° Ω 59'52 28.81725 AU
morning rise	6496 Jul 25 02:04	22° 9 55'01	direct	6503 Apr 14 16:26	5° Ω 34'44
retrograde	6496 Oct 24 07:10	24° © 53'45	evening set	6503 Jul 10 23:37	7° Ω 28'34
min. Earth dist.	6497 Jan 11 05:51	23°529'58 28.80881 AU			
opposition	6497 Jan 12 00:47	23°9528'38 -1°17'14	conjunction	6503 Jul 26 23:42	8° Ω 04'21 -1°02'41
direct	6497 Mar 30 17:59	22°905'02	minimum elong	6503 Jul 26 23:42	8° Ω 04'21 1°02'44
evening set	6497 Jun 25 18:05	23°958'51	max. Earth dist.	6503 Jul 27 17:38	8°Ω06'02 30.81918 AU
			morning rise	6503 Aug 12 02:30	8° Ω 40'23
conjunction	6497 Jul 11 15:31	24°534'32 -1°11'40	retrograde	6503 Nov 10 23:15	10° Ω 38'31
minimum elong	6497 Jul 11 15:31	24°\$34'32 1°11'42	opposition	6504 Jan 29 11:24	9° Ω 13'24 -1°06'03
max. Earth dist.	6497 Jul 12 11:21	24°\$36'24 30.80837 AU	min. Earth dist.	6504 Jan 28 18:27	9°Ω14'35 28.82253 AU
morning rise	6497 Jul 27 15:51	25°5010'29	direct	6504 Apr 16 02:52	7° Ω 49'28
retrograde	6497 Oct 26 19:12	27°509'09	evening set	6504 Jul 12 12:35	9° Ω 43'19
opposition	6498 Jan 14 12:59	25°9544'01 -1°15'58			
min. Earth dist.	6498 Jan 13 19:23	25° © 45'15 28.80915 AU	conjunction	6504 Jul 28 13:15	10° Ω 19'08 -1°00'51
direct	6498 Apr 02 06:08	24°9520'21	minimum elong	6504 Jul 28 13:15	10° Ω 19'08 1°00'53
evening set	6498 Jun 28 07:01	26° © 14′09	max. Earth dist.	6504 Jul 29 07:59	10° Ω 20'54 30.82512 AU
			morning rise	6504 Aug 13 16:16	10° Ω 55'12
conjunction	6498 Jul 14 04:58	26°9549'51 -1°10'25	retrograde	6504 Nov 12 12:04	12° Ω 53'15
minimum elong	6498 Jul 14 04:59	26°549'51 1°10'28	opposition	6505 Jan 30 22:57	11° Ω 28'12 -1°04'01
max. Earth dist.	6498 Jul 15 00:20	26°951'40 30.80864 AU	min. Earth dist.	6505 Jan 30 06:30	11° Ω 29'21 28.82903 AU
morning rise	6498 Jul 30 05:43	27°\$25'49	direct	6505 Apr 18 15:21	10° Ω 04'17
retrograde	6498 Oct 29 08:20	29° 5 24'22	evening set	6505 Jul 15 01:44	11° Ω 58'11
min. Earth dist.	6499 Jan 16 06:35	28°\$00'30 28.80929 AU	croming set	0505 341 15 01.74	11 000011
			agnismatic=	6505 Jul 21 02:46	120 024102 0050154
opposition	6499 Jan 17 00:46	27°559'13 -1°14'35	conjunction	6505 Jul 31 02:46	12°Ω34'02 -0°58'54
direct	6499 Apr 04 18:46	26°\$35'29	minimum elong	6505 Jul 31 02:46	12° Q 34'02 0°58'57
evening set	6499 Jun 30 19:59	28° © 29'17	max. Earth dist.	6505 Jul 31 20:22	12° Q 35'41 30.83228 AU
			morning rise	6505 Aug 16 06:17	13° Ω 10′06
conjunction	6499 Jul 16 18:18	29° 5 05'00 -1°09'05		6505 Oct 23 23:21	15° Ω
minimum elong	6499 Jul 16 18:18	29° 5 05'00 1°09'08	retrograde	6505 Nov 15 03:30	15° Ω 08′05
max. Earth dist.	6499 Jul 17 13:02	29°506'46 30.80883 AU		6505 Dec 07 08:41	15°R Ω

	(50(E-k 02 10-2(120 0 42107	1001154		(512 A 1(02-25	28° Ω 19'41	0942100
opposition	6506 Feb 02 10:26	13° Ω 43'07	28.83650 AU	conjunction	6512 Aug 16 03:25		
min. Earth dist.	6506 Feb 01 17:48		28.83030 AU	minimum elong	6512 Aug 16 03:25	28° Ω 19'41	
direct	6506 Apr 21 03:55	12° Ω 19'13		max. Earth dist.	6512 Aug 16 15:47		30.87347 AU
evening set	6506 Jul 17 15:04	14° Ω 13'11		morning rise	6512 Sep 01 09:03	28° Ω 55'49	
		0			6512 Oct 03 17:32	0° m)	
conjunction	6506 Aug 02 16:31	14° Ω 49'04		retrograde	6512 Nov 30 18:54	0° m 53'04	
minimum elong	6506 Aug 02 16:31	14° Ω 49'04			6513 Jan 29 14:09	30°R Ω	
max. Earth dist.	6506 Aug 03 10:11		30.83986 AU	opposition	6513 Feb 17 17:52	29° Ω 28'21	
	6506 Aug 07 13:13	15° Ω		min. Earth dist.	6513 Feb 17 06:22		28.87605 AU
morning rise	6506 Aug 18 20:17	15° Ω 25'09		direct	6513 May 06 12:18	28° Ω 04'13	
retrograde	6506 Nov 17 15:41	17° Ω 23'04		evening set	6513 Aug 02 13:04	29° Ω 58′20	
opposition	6507 Feb 04 21:54	15° Ω 58'11	-0°59'40		6513 Aug 03 07:27	0° m)	
min. Earth dist.	6507 Feb 04 06:47	15° Ω 59'15	28.84410 AU				
	6507 Mar 14 21:07	15° Ŗ €		conjunction	6513 Aug 18 17:15	0° m)34'17	-0°40'28
direct	6507 Apr 23 15:35	14° Ω 34'19		minimum elong	6513 Aug 18 17:16	0° m 34'17	0°40'29
	6507 Jun 01 14:27	15° Ω		max. Earth dist.	6513 Aug 19 06:06	0° m/35'29	30.87827 AU
evening set	6507 Jul 20 04:27	16° Ω 28'20		morning rise	6513 Sep 03 22:58	1° Mp 10'25	
				retrograde	6513 Dec 03 05:57	3° m)07'31	
conjunction	6507 Aug 05 06:20	17° Ω 04'14	-0°54'45	opposition	6514 Feb 20 04:54	1° m 42'48	-0°41'51
minimum elong	6507 Aug 05 06:20	17° Ω 04'14		min. Earth dist.	6514 Feb 19 18:08	-	28.88116 AU
max. Earth dist.	6507 Aug 05 23:08		30.84743 AU	direct	6514 May 09 01:18	0° m) 18'37	20.00110110
morning rise	6507 Aug 21 10:25	17°Ω40'20		evening set	6514 Aug 05 02:31	2° m) 12'44	
retrograde	6507 Nov 20 06:04	19° Ω 38'11		evening set	0314 Aug 03 02.31	2 11/12 44	
opposition	6508 Feb 07 09:22	$18^{\circ}\Omega 13'22$	0057122	agniumation	6514 Aug 21 06:54	2° m 48'42	0027151
min. Earth dist.	6508 Feb 07 09.22 6508 Feb 06 17:58		28.85132 AU	conjunction	6514 Aug 21 06:54	2° Mp 48'42	
			28.83132 AU	minimum elong	6514 Aug 21 06:54		
direct	6508 Apr 25 04:05	16° Ω 49'30		max. Earth dist.	6514 Aug 21 18:18	-•	30.88394 AU
evening set	6508 Jul 21 17:51	18° Ω 43'34		morning rise	6514 Sep 06 12:56	3° m 24'49	
				retrograde	6514 Dec 05 19:31	5° Mp 21'46	
conjunction	6508 Aug 06 20:04	19° Ω 19'29		opposition	6515 Feb 22 15:43	3° m 57'05	
minimum elong	6508 Aug 06 20:04	19° Ω 19'29		min. Earth dist.	6515 Feb 22 04:44		28.88740 AU
max. Earth dist.	6508 Aug 07 11:50		30.85417 AU	direct	6515 May 11 13:49	2° My 32'50	
morning rise	6508 Aug 23 00:31	19° Ω 55'36		evening set	6515 Aug 07 15:52	4° Mg 26'58	
retrograde	6508 Nov 21 19:17	21° Ω 53'22					
opposition	6509 Feb 08 21:00	20° £ 28'35	-0°54'58	conjunction	6515 Aug 23 20:36	5° Mg 02'56	-0°35'11
min. Earth dist.	6509 Feb 08 07:19	20° Ω 29'33	28.85759 AU	minimum elong	6515 Aug 23 20:36	5° Mg 02'56	0°35'13
direct	6509 Apr 27 14:53	19° Ω 04'43		max. Earth dist.	6515 Aug 24 08:16	5° m 04'01	30.89075 AU
evening set	6509 Jul 24 07:20	20° Ω 58'48		morning rise	6515 Sep 09 02:43	5° m 39'03	
				retrograde	6515 Dec 08 06:50	7° m 35'53	
conjunction	6509 Aug 09 10:05	21° Ω 34'44	-0°50'16	opposition	6516 Feb 25 02:42	6° Mp 11'13	-0°36'10
minimum elong	6509 Aug 09 10:05	21° Ω 34'44	0°50'19	min. Earth dist.	6516 Feb 24 16:54	6° m 11'55	28.89491 AU
max. Earth dist.	6509 Aug 10 01:28	21° Ω 36′10	30.86000 AU	direct	6516 May 13 01:19	4° m 46'56	
morning rise	6509 Aug 25 14:46	22° Ω 10'51		evening set	6516 Aug 09 05:05	6° mp 41'05	
retrograde	6509 Nov 24 07:34	24°Ω08'30		<i>5</i>			
opposition	6510 Feb 11 08:14	22° Ω 43'46		conjunction	6516 Aug 25 10:08	7° m) 17'04	-0°32'29
min. Earth dist.	6510 Feb 10 18:28		28.86279 AU	minimum elong	6516 Aug 25 10:08	7° m) 17'04	
direct	6510 Apr 30 03:14	21° Ω 19'50		max. Earth dist.	6516 Aug 25 21:08	•	30.89909 AU
evening set	6510 Jul 26 20:58	23°Ω13'57		morning rise	6516 Sep 10 16:31	7° m ₂ 13 03	30.07707710
evening sec	0310 341 20 20.50	23 001337		retrograde	6516 Dec 09 20:56	9° m) 49'52	
conjunction	6510 Aug 11 23:57	23° Ω 49'53	-0°47'55	opposition	6517 Feb 26 13:29	8° Mp 25'16	-0°33'14
minimum elong	6510 Aug 11 23:57	23° Ω 49'53		min. Earth dist.	6517 Feb 26 03:07		28.90383 AU
_	-		30.86481 AU	direct	6517 May 15 14:19	-•	26.90363 AU
max. Earth dist.	6510 Aug 12 13:37	$24^{\circ}\Omega 26'01$	30.80481 AU		•	7° Mp 00'58	
morning rise	6510 Aug 28 05:02			evening set	6517 Aug 11 18:35	8° m 55'09	
retrograde	6510 Nov 26 18:56	26° £ 23'32			(517) 07 00 51	00 7 2 1100	0020142
opposition	6511 Feb 13 19:38	24° Ω 58'49		conjunction	6517 Aug 27 23:51	9° m 31'09	
min. Earth dist.	6511 Feb 13 07:18		28.86732 AU	minimum elong	6517 Aug 27 23:51	9° m 31'09	
direct	6511 May 02 14:03	23° Ω 34'50		max. Earth dist.	6517 Aug 28 10:15	-•	30.90859 AU
evening set	6511 Jul 29 10:14	25° Ω 28'56		morning rise	6517 Sep 13 06:24	10° m 07'15	
		_		retrograde	6517 Dec 12 09:30	12° Mp 03'50	
conjunction	6511 Aug 14 13:44	26° Ω 04'53		opposition	6518 Mar 01 00:17	10° m 39'17	
minimum elong	6511 Aug 14 13:44	26° Ω 04'53		min. Earth dist.	6518 Feb 28 15:25	-	28.91388 AU
max. Earth dist.	6511 Aug 15 03:49	26° Ω 06′12	30.86914 AU	direct	6518 May 18 01:32	9° m 15'00	
morning rise	6511 Aug 30 18:56	26° Ω 41′01		evening set	6518 Aug 14 08:03	11° m 09'14	
retrograde	6511 Nov 29 06:04	28° Ω 38'24					
opposition	6512 Feb 16 06:49	27° Ω 13'41	-0°47'18	conjunction	6518 Aug 30 13:40	11° m)45'14	-0°26'54
min. Earth dist.	6512 Feb 15 18:42	27° Ω 14'32	28.87149 AU	minimum elong	6518 Aug 30 13:40	11° m)45'14	0°26'55
direct	6512 May 04 02:05	25° Ω 49'38		max. Earth dist.	6518 Aug 30 23:51	11° M)46'11	30.91911 AU
evening set	6512 Jul 30 23:44	27° Ω 43'44		morning rise	6518 Sep 15 20:16	12° m 21'21	

ratra ara da	6519 Dag 14 21:40	1 40 m , 1 7!40		amnagitian	6525 Mar. 16, 02:00	260 m 17102	0000126
retrograde	6518 Dec 14 21:49	14° Mp 17'48	27112	opposition	6525 Mar 16 03:00	26° Mp 17'03	
opposition	6519 Mar 03 10:59	12° m 53'21 -0°2		min. Earth dist.	6525 Mar 15 23:53		28.97670 AU
min. Earth dist.	6519 Mar 03 01:53	12° m 54'00 28.9	92451 AU	direct	6525 Jun 02 10:15	24° m 52'35	
direct	6519 May 20 14:04	11° m 29'05		evening set	6525 Aug 30 07:10	26° Mp 47'03	
evening set	6519 Aug 16 21:34	13° m 23'22					
				conjunction	6525 Sep 15 13:55	27° m 23'02	
conjunction	6519 Sep 02 03:14	13° m 59'21 -0°2		minimum elong	6525 Sep 15 13:55	27° m/23'02	0°06'28
minimum elong	6519 Sep 02 03:14	13° m 59'21 0°2	24'05	behind sun begin	6525 Sep 15 07:44	27° m 22'29	
max. Earth dist.	6519 Sep 02 11:54	14° Mp 00'10 30.9	92979 AU	behind sun end	6525 Sep 15 20:07	27° m 23'35	
morning rise	6519 Sep 18 10:03	14° M 35'28		max. Earth dist.	6525 Sep 15 17:12	27° m 23'19	30.98047 AU
retrograde	6519 Dec 17 09:41	16° m 31'49		morning rise	6525 Oct 01 20:57	27° m 59'04	
opposition	6520 Mar 04 21:50	15° Mp 07'28 -0°2	24'09	retrograde	6525 Dec 30 08:15	29° m 54'36	
min. Earth dist.	6520 Mar 04 14:12	15° Mp 08'00 28.9	93516 AU	opposition	6526 Mar 18 13:14	28° m 30'30	-0°05'14
direct	6520 May 22 00:17	13° m) 43'11		min. Earth dist.	6526 Mar 18 09:51	28° m 30'44	28.98430 AU
evening set	6520 Aug 18 11:09	15° m 37'31		direct	6526 Jun 04 23:43	27° m 05'59	
8		4		evening set	6526 Sep 01 20:39	29° m 00'29	
conjunction	6520 Sep 03 17:12	16° m 13'32 -0°2	21'10				
minimum elong	6520 Sep 03 17:12	16° mp 13'32 0°2		conjunction	6526 Sep 18 03:28	29° Mp 36'28	-0°03'29
max. Earth dist.	6520 Sep 04 01:55	16° Mp 14'20 30.5		minimum elong	6526 Sep 18 03:27	29° My 36'28	
morning rise		•	94014 AU	behind sun begin	•		0 03 28
Č	6520 Sep 19 23:57	16° Mp 49'38		C	6526 Sep 17 20:54	29° My 35'53	
retrograde	6520 Dec 18 21:08	18° m 45'52		behind sun end	6526 Sep 18 10:00	29° My 37'02	
opposition	6521 Mar 07 08:30	17° m 21'35 -0°2		max. Earth dist.	6526 Sep 18 06:06		30.98831 AU
min. Earth dist.	6521 Mar 07 01:28	17° m 22'05 28.9	94503 AU		6526 Sep 28 17:41	0∘ ত	
direct	6521 May 24 12:01	15° m 57'18		morning rise	6526 Oct 04 10:24	0° ჲ 12'28	
evening set	6521 Aug 21 00:57	17° m 51'40		retrograde	6527 Jan 01 20:01	2° ≙ 07'51	
				opposition	6527 Mar 20 23:42	0° ≏ 43'47	-0°02'03
conjunction	6521 Sep 06 07:02	18° m)27'40 -0°1	18'16	min. Earth dist.	6527 Mar 20 21:46	0° ჲ 43'55	28.99265 AU
minimum elong	6521 Sep 06 07:02	18° m 27'40 0° 1	18'17		6527 Apr 17 03:13	30°R ™	
max. Earth dist.	6521 Sep 06 13:32	18° Mp 28'16 30.9	94957 AU	direct	6527 Jun 07 11:31	29° m 19'15	
morning rise	6521 Sep 22 14:02	19° m 03'46			6527 Jul 27 16:50	0∘ ⊽	
retrograde	6521 Dec 21 09:22	20° m 59'53		evening set	6527 Sep 04 09:48	1° ≙ 13'45	
opposition	6522 Mar 09 19:16	19° mp 35'39 -0°1	17'55				
min. Earth dist.	6522 Mar 09 13:10	19° m/36'05 28.9		conjunction	6527 Sep 20 16:44	1° ≏ 49'43	-0°00'26
direct	6522 May 26 22:15	18° mp 11'20)5400 MC	minimum elong	6527 Sep 20 16:44	1° ⊆ 49'43	
		20° m 05'44		behind sun begin	-	1° ⊆ 4943	0 0027
evening set	6522 Aug 23 14:33	20 11003 44		2	6527 Sep 20 10:10		
	(500 C 00 00 56	200m 41144 00:	1.512.0	behind sun end	6527 Sep 20 23:18	1° £ 50'18	20.00722 444
conjunction	6522 Sep 08 20:56	20° mp 41'44 -0°		max. Earth dist.	6527 Sep 20 19:13		30.99722 AU
minimum elong	6522 Sep 08 20:56	20° mp 41'44 0°	15'19	morning rise	6527 Oct 06 23:36	2° ≙ 25'42	
behind sun begin	6522 Sep 08 19:19	20° m 41'36		asc. node	6527 Nov 11 17:35	3° ჲ 35'00	
behind sun end	6522 Sep 08 22:34	20° m 41'53		retrograde	6528 Jan 04 07:32	4° ≙ 20'57	
max. Earth dist.	6522 Sep 09 03:27	20° m/42'20 30.9	95798 AU	opposition	6528 Mar 22 09:58	2° ≙ 56'56	0°01'09
morning rise	6522 Sep 25 03:47	21° M 17'49		min. Earth dist.	6528 Mar 22 07:34	2° ≙ 57'06	29.00207 AU
retrograde	6522 Dec 23 19:31	23° m 13'47		direct	6528 Jun 09 00:31	1° ≏ 32'22	
opposition	6523 Mar 12 05:55	21° Mp 49'37 -0°	14'46	evening set	6528 Sep 05 23:13	3° £ 26'54	
min. Earth dist.	6523 Mar 12 01:00	21° Mp 49'57 28.9	96192 AU				
direct	6523 May 29 10:47	20° m/25'15		conjunction	6528 Sep 22 06:05	4° £ 02'52	0°02'38
evening set	6523 Aug 26 04:12	22° m 19'41		minimum elong	6528 Sep 22 06:05	4° £ 02'52	0°02'39
Č	Č	•		behind sun begin	6528 Sep 21 23:30	4° £ 02'17	
conjunction	6523 Sep 11 10:37	22° m 55'40 -0°	12'23	behind sun end	6528 Sep 22 12:40	4° £ 03'27	
minimum elong	6523 Sep 11 10:37		12'23	max. Earth dist.	6528 Sep 22 07:19		31.00728 AU
behind sun begin	6523 Sep 11 10:37	22° m 55'18	12 23	morning rise	6528 Oct 08 12:57	4° £ 38'50	31.00720710
behind sun end	6523 Sep 11 14:51	22° m/56'03		retrograde	6529 Jan 05 19:10	6° £ 33'57	
max. Earth dist.	•	22° m/56'05 30.9	06571 ATT	opposition	6529 Mar 24 20:13	5° ⊆ 10'00	0.04.30
	6523 Sep 11 15:10	•	903/1 AU	• •			
morning rise	6523 Sep 27 17:40	23° m/31'44		min. Earth dist.	6529 Mar 24 18:54		29.01292 AU
retrograde	6523 Dec 26 08:20	25° m) 27'34		direct	6529 Jun 11 10:49	3° £ 45'25	
opposition	6524 Mar 13 16:26	24° Mp 03'25 -0°		evening set	6529 Sep 08 12:29	5° ≏ 39'59	
min. Earth dist.	6524 Mar 13 11:40	24° Mp 03'45 28.5	96943 AU				
direct	6524 May 30 22:48	22° m 39'00		conjunction	6529 Sep 24 19:33	6° £ 15'57	0°05'37
evening set	6524 Aug 27 17:37	24° Mp 33'27		minimum elong	6529 Sep 24 19:33	6° ≙ 15'57	0°05'37
				behind sun begin	6529 Sep 24 13:14	6° ≏ 15′23	
conjunction	6524 Sep 13 00:17	25° Mp 09'27 -0°(09'25	behind sun end	6529 Sep 25 01:53	6° £ 16'31	
minimum elong	6524 Sep 13 00:17	25° m/09'27 0°(09'24	max. Earth dist.	6529 Sep 24 21:12	6° ≙ 16'04	31.01880 AU
behind sun begin	6524 Sep 12 18:49	25° m 08'58		morning rise	6529 Oct 11 02:13	6° £ 51'54	
behind sun end	6524 Sep 13 05:46	25° m/ 09'56		retrograde	6530 Jan 08 06:24	8° ≏ 46'53	
max. Earth dist.	6524 Sep 13 04:44	25° m/09'50 30.9	97303 AU	opposition	6530 Mar 27 06:29	7° £ 23'02	0°07'31
morning rise	6524 Sep 29 07:15	25° m/45'30		min. Earth dist.	6530 Mar 27 05:22		29.02494 AU
•	6524 Dec 27 18:57	25 m/45 30 27° m/41'11		direct	6530 Jun 13 22:28	5° £ 58'28	27.02474 AU
retrograde	0327 DCC 27 10.37	∠/ ng+111		uncei	0550 Juli 15 44.48	J == 30 48	

evening set	6530 Sep 11 01:53	7° ≙ 53'05	conjunction minimum elong	6536 Oct 10 16:44 6536 Oct 10 16:44	21° ♀ 47'22 0°25'57 21° ♀ 47'22 0°25'58
conjunction	6530 Sep 27 08:45	8° 2 29'02 0°0	08'34 max. Earth dist.	6536 Oct 10 10:44	21° <u>Ω</u> 46'54 31.10039 AU
minimum elong	6530 Sep 27 08:45		08'36 morning rise	6536 Oct 26 22:09	22° £ 23'08
behind sun begin	6530 Sep 27 03:02	8° £ 28'32	retrograde	6537 Jan 23 11:47	24° £ 17'16
behind sun end	6530 Sep 27 03:02	8° £ 29'33	opposition	6537 Apr 11 06:08	24° ⊆ 1710 22° ⊆ 53'54 0°29'12
	1		**	1	
max. Earth dist.	6530 Sep 27 08:46	8° 2 29'02 31.0		6537 Apr 11 10:34	22° £ 53'35 29.10477 AU
morning rise	6530 Oct 13 15:25	9° £ 04'59	direct	6537 Jun 29 08:19	21° £ 29'14
retrograde	6531 Jan 10 17:30	10° ≙ 59'52	evening set	6537 Sep 26 23:32	23° £ 24'06
opposition	6531 Mar 29 16:43		10'42		
min. Earth dist.	6531 Mar 29 16:09	9° ≏ 36'08 29.0	3	6537 Oct 13 05:52	23° ♀ 59'55 0°28'44
direct	6531 Jun 16 08:24	8° ≏ 11'33	minimum elong	6537 Oct 13 05:52	23° ♀ 59'55 0°28'45
evening set	6531 Sep 13 15:10	10° ≏ 06'14	max. Earth dist.	6537 Oct 12 23:13	23° ≙ 59'19 31.10898 AU
			morning rise	6537 Oct 29 11:05	24° ≙ 35'39
conjunction	6531 Sep 29 22:10	10° ≏ 42'10 0°1	1'32 retrograde	6538 Jan 25 23:22	26° ჲ 29'39
minimum elong	6531 Sep 29 22:10	10° ≏ 42'10 0°1	1'32 opposition	6538 Apr 13 16:20	25° ჲ 06'18 0°32'09
behind sun begin	6531 Sep 29 17:31	10° ≙ 41'45	min. Earth dist.	6538 Apr 13 22:06	25° ♀ 05'53 29.11335 AU
behind sun end	6531 Sep 30 02:50	10° - 42'35	direct	6538 Jul 01 19:35	23° ≏ 41'36
max. Earth dist.	6531 Sep 29 22:33	10° £ 42'12 31.0	04458 AU evening set	6538 Sep 29 12:32	25° ≏ 36′28
morning rise	6531 Oct 16 04:32	11° ≏ 18'05	5	1	
retrograde	6532 Jan 13 02:48	13° ♀ 12'52	conjunction	6538 Oct 15 18:49	26° £ 12'16 0°31'28
opposition	6532 Mar 31 02:58	11° ≙ 49'13 0°1:	v	6538 Oct 15 18:49	26° ≙ 12'15 0°31'30
min. Earth dist.	6532 Mar 31 03:32	11° 2 49'11 29.0		6538 Oct 15 12:26	26° ⊆ 11'40 31.11750 AU
				6538 Oct 31 23:38	
direct	6532 Jun 17 19:52	10° £ 24'42	morning rise		26° ♀ 47'57
evening set	6532 Sep 15 04:37	12° ≙ 19′26	retrograde	6539 Jan 28 09:44	28° △ 41'48
			opposition	6539 Apr 16 02:25	27° △ 18'29 0°35'02
conjunction	6532 Oct 01 11:28		4'28 min. Earth dist.	6539 Apr 16 08:32	27° ≙ 18'03 29.12193 AU
minimum elong	6532 Oct 01 11:28		direct	6539 Jul 04 08:24	25° ≙ 53'45
behind sun begin	6532 Oct 01 08:46	12° ≏ 55'07	evening set	6539 Oct 02 01:39	27° ≏ 48'37
behind sun end	6532 Oct 01 14:09	12° ≏ 55'35			
max. Earth dist.	6532 Oct 01 09:51	12° ♀ 55'13 31.0	05768 AU conjunction	6539 Oct 18 07:35	28° 2 24'23 0°34'09
morning rise	6532 Oct 17 17:50	13° ≏ 31'15	minimum elong	6539 Oct 18 07:35	28° ♀ 24'23 0°34'10
retrograde	6533 Jan 14 15:15	15° ≏ 25'55	max. Earth dist.	6539 Oct 17 23:35	28° ≏ 23'39 31.12633 AU
opposition	6533 Apr 02 13:14	14° ≙ 02'21 0°1	6'59 morning rise	6539 Nov 03 12:16	29° ♀ 00'04
min. Earth dist.	6533 Apr 02 14:01	14° ≏ 02'18 29.0	06396 AU	6539 Dec 03 19:44	0° M
direct	6533 Jun 20 06:41	12° ♀ 37'50	retrograde	6540 Jan 30 20:16	0°M53'47
evening set	6533 Sep 17 18:07	14° ≏ 32'37		6540 Mar 30 15:00	30° ₹ Ω
Č	1		opposition	6540 Apr 17 12:25	29° ♀ 30'30 0°37'53
conjunction	6533 Oct 04 00:59	15° ≙ 08'31 0°1'	**	6540 Apr 17 18:56	29° 2 30'02 29.13122 AU
minimum elong	6533 Oct 04 00:58		direct	6540 Jul 05 18:58	28° £ 05'43
max. Earth dist.	6533 Oct 04 00:38	15° 2 08'21 31.0		6540 Oct 03 14:32	0°M00'37
morning rise	6533 Oct 20 07:00	15° - 44′24	50700 AC Evening Set	6540 Oct 03 07:39	0°M
•	6534 Jan 17 01:07	13 = 44 24 17° ₽ 38'57		0340 Oct 03 07.39	U IIIG
retrograde			20106	(540.0-4, 10.20-20	00111 26122 0026147
opposition	6534 Apr 04 23:32	16° 2 15'28 0°2'	•	6540 Oct 19 20:28	0°M36'22 0°36'47
min. Earth dist.	6534 Apr 05 02:12	16° № 15'16 29.0	Č	6540 Oct 19 20:28	0°M36'22 0°36'49
direct	6534 Jun 22 17:24	14° £ 50'55	max. Earth dist.	6540 Oct 19 13:03	0°M.35'41 31.13595 AU
evening set	6534 Sep 20 07:35	16° ≏ 45'45	morning rise	6540 Nov 05 00:41	1°M.12'00
			retrograde	6541 Feb 01 04:57	3°M05'36
conjunction	6534 Oct 06 14:19		20'16 opposition	6541 Apr 19 22:33	1°M42'23 0°40'40
minimum elong	6534 Oct 06 14:19		20'18 min. Earth dist.	6541 Apr 20 05:53	1°M41'52 29.14129 AU
max. Earth dist.	6534 Oct 06 10:51	17° £ 21'19 31.0		6541 Jul 08 06:29	0°M17'36
morning rise	6534 Oct 22 20:13	17° ≏ 57'28	evening set	6541 Oct 06 03:36	2°M12'32
retrograde	6535 Jan 19 13:31	19° ≏ 51'53			
opposition	6535 Apr 07 09:47	18° £ 28'27 0°2	23'10 conjunction	6541 Oct 22 09:08	2°M48'15 0°39'22
min. Earth dist.	6535 Apr 07 12:23	18° ≏ 28'16 29.0	08629 AU minimum elong	6541 Oct 22 09:08	2°M48'15 0°39'23
direct	6535 Jun 25 07:05	17° ≏ 03'53	max. Earth dist.	6541 Oct 22 00:09	2°M47'25 31.14660 AU
evening set	6535 Sep 22 20:51	18° ≏ 58'43	morning rise	6541 Nov 07 13:11	3°M23'51
			retrograde	6542 Feb 03 16:30	5°M17'21
conjunction	6535 Oct 09 03:29	19° ≙ 34'35 0°2	23'08 opposition	6542 Apr 22 08:30	3°M54'13 0°43'24
minimum elong	6535 Oct 09 03:29	19° ♀ 34'35 0°2	* *	6542 Apr 22 15:29	3°M53'43 29.15251 AU
max. Earth dist.	6535 Oct 08 23:08	19° 2 34'11 31.0		6542 Jul 10 16:45	2°M29'26
morning rise	6535 Oct 25 09:08	20° £ 10′23	evening set	6542 Oct 08 16:27	4°M24'26
retrograde	6536 Jan 22 00:21	20° ⊆ 10'23 22° ⊆ 04'41	evening set	03.12.000 00 10.27	1 1102 120
opposition	6536 Apr 08 20:08		26'12 conjunction	6542 Oct 24 21:53	5°ML00'08 0°41'53
min. Earth dist.	6536 Apr 09 00:33	20° 2 40′58 29.0	·	6542 Oct 24 21:53	5°M00'08 0°41'55
	-				
direct	6536 Jun 26 18:58	19° ≏ 16'40	max. Earth dist.	6542 Oct 24 13:14	4°M59'20 31.15825 AU
evening set	6536 Sep 24 10:09	21° ≙ 11'31	morning rise	6542 Nov 10 01:26	5°M35'42

retrograde	6543 Feb 06 01:45	7° M 29'08		evening set	6549 Oct 24 10:12	19° M 48'48	
opposition	6543 Apr 24 18:42	6°M06'05	0°46'03				
min. Earth dist.	6543 Apr 25 03:03	6°M05'30	29.16459 AU	conjunction	6549 Nov 09 13:34	20°M24'19	0°57'35
direct	6543 Jul 13 02:46	4°M41'21		minimum elong	6549 Nov 09 13:34	20°M24'19	0°57'37
evening set	6543 Oct 11 05:14	6°M36'24		max. Earth dist.	6549 Nov 08 23:28	20° ML 23° 01	31.22785 AU
				morning rise	6549 Nov 25 14:24	20°M59'39	
conjunction	6543 Oct 27 10:21	7° ™ 12'04	0°44'20	retrograde	6550 Feb 21 05:12	22°M52'28	
minimum elong	6543 Oct 27 10:21	7°M12'04	0°44'22	opposition	6550 May 09 17:48	21°M29'53	1°02'32
max. Earth dist.	6543 Oct 27 00:42		31.17065 AU	min. Earth dist.	6550 May 10 07:20		29.23122 AU
morning rise	6543 Nov 12 13:41	7°M47'37		direct	6550 Jul 28 15:50	20°M05'09	
retrograde opposition	6544 Feb 08 13:35 6544 Apr 26 04:42	9°M40'58 8°M18'02	0°48'39	evening set max. Earth dist.	6550 Oct 26 22:47 6550 Nov 11 09:54	22°M00'26	31.23373 AU
min. Earth dist.	6544 Apr 26 12:45		0 48 39 29.17701 AU	max. Earm dist.	0330 NOV 11 09.34	22 11634 28	31.23373 AU
direct	6544 Jul 14 15:39	6°M53'21	2).17701 AC	conjunction	6550 Nov 12 01:39	22°M35'55	0°59'30
evening set	6544 Oct 12 18:12	8°M48'28		minimum elong	6550 Nov 12 01:39	22°M35'55	0°59'33
e vennig see	0011000 12 10.12	0 110 10 20		morning rise	6550 Nov 28 02:14	23°M11'13	0 00 00
conjunction	6544 Oct 28 23:03	9° M 24'07	0°46'44	retrograde	6551 Feb 23 16:22	25°M03'55	
minimum elong	6544 Oct 28 23:03	9°M24'07	0°46'46	opposition	6551 May 12 03:52	23°M41'21	1°04'33
max. Earth dist.	6544 Oct 28 12:47	9°M23'11	31.18286 AU	min. Earth dist.	6551 May 12 17:06	23°M40'26	29.23699 AU
morning rise	6544 Nov 14 01:58	9°M59'38		direct	6551 Jul 31 02:29	22°M16'33	
retrograde	6545 Feb 10 00:18	11°M52'56		evening set	6551 Oct 29 10:59	24°M11'50	
opposition	6545 Apr 28 14:49	10°M30'05	0°51'10				
min. Earth dist.	6545 Apr 29 00:37		29.18904 AU	conjunction	6551 Nov 14 13:39	24°M47'17	1°01'20
direct	6545 Jul 17 02:39	9° ™ 05'26		minimum elong	6551 Nov 14 13:39	24°M47'17	1°01'23
evening set	6545 Oct 15 07:09	11°M00'37		max. Earth dist.	6551 Nov 13 22:15		31.23935 AU
	6545.0 + 21.11.46	110 m 26115	0040102	morning rise	6551 Nov 30 13:41	25°M22'33	
conjunction	6545 Oct 31 11:46	11°M36'15	0°49'03	retrograde	6552 Feb 26 00:02	27°M15'09	1907/27
minimum elong max. Earth dist.	6545 Oct 31 11:46 6545 Oct 31 00:49	11°M36'15	0°49'05 31.19443 AU	opposition min. Earth dist.	6552 May 13 14:04 6552 May 14 04:42	25°M52'35	1°06'27 29.24274 AU
morning rise	6545 Nov 16 14:17	12°M11'44	31.19443 AU	direct	6552 Aug 01 13:12	24°M27'45	29.24274 AU
retrograde	6546 Feb 12 11:47	14°M04'57		evening set	6552 Oct 30 23:21	26°M23'00	
opposition	6546 May 01 01:00	12°M42'12	0°53'36	max. Earth dist.	6552 Nov 15 09:20		31.24535 AU
min. Earth dist.	6546 May 01 10:48		29.20000 AU		***************************************		
direct	6546 Jul 19 15:31	11° M 17'33		conjunction	6552 Nov 16 01:33	26°M58'26	1°03'05
evening set	6546 Oct 17 20:01	13°M12'48		minimum elong	6552 Nov 16 01:33	26°M58'26	1°03'07
max. Earth dist.	6546 Nov 02 11:42	13°M47'15	31.20469 AU	morning rise	6552 Dec 02 01:15	27°M33'39	
				retrograde	6553 Feb 27 10:01	29°M26'09	
conjunction	6546 Nov 03 00:12	13°M48'24	0°51'18	opposition	6553 May 16 00:02	28°M03'35	1°08'16
minimum elong	6546 Nov 03 00:11	13°M48'24	0°51'21	min. Earth dist.	6553 May 16 13:58		29.24905 AU
morning rise	6546 Nov 19 02:22	14°M23'51		direct	6553 Aug 04 01:40	26°M38'43	
	6546 Dec 06 12:49	15°M		evening set	6553 Nov 02 11:36	28°M33'59	
retrograde	6547 Feb 14 23:52	16°M16'59			(552) 10 12 25	200M 00122	1004144
	6547 Apr 30 01:32	15°RM 14°M54'18	0055150	conjunction minimum elong	6553 Nov 18 13:25 6553 Nov 18 13:25	29°M09'23 29°M09'23	1°04'44 1°04'47
opposition min. Earth dist.	6547 May 03 11:18 6547 May 03 22:24		29.20972 AU	max. Earth dist.	6553 Nov 17 21:07		31.25202 AU
direct	6547 Jul 22 03:07	13°M29'39	29.20972 AU	morning rise	6553 Dec 04 12:36	29°M44'34	31.23202 AO
direct	6547 Oct 08 12:18	15°M		morning rise	6553 Dec 11 18:28	0° ⊼ ¹	
evening set	6547 Oct 20 08:46	15°M24'56		retrograde	6554 Mar 01 19:40	1° ∡ ³36'59	
-				opposition	6554 May 18 10:18	0° ∡ 14'27	1°09'59
conjunction	6547 Nov 05 12:47	16°M00'30	0°53'29	min. Earth dist.	6554 May 19 01:16	0° ≯ 13'25	29.25636 AU
minimum elong	6547 Nov 05 12:47	16°M00'30	0°53'31		6554 May 27 03:01	30°RM₊	
max. Earth dist.	6547 Nov 05 00:17	15°M59'21	31.21368 AU	direct	6554 Aug 06 11:44	28°M49'34	
morning rise	6547 Nov 21 14:28	16°M35'55			6554 Oct 13 23:05	0° ∡ ¹	
retrograde	6548 Feb 17 10:25	18°M28'57		evening set	6554 Nov 04 23:33	0° ∡ ¹44'52	
opposition	6548 May 04 21:26	17°M06'19		max. Earth dist.	6554 Nov 20 08:51	1° ≯ 18'43	31.25988 AU
min. Earth dist.	6548 May 05 09:14		29.21799 AU		(5543) 21 01 02	10 700110	100 (110
direct	6548 Jul 23 16:33	15°M41'39		conjunction	6554 Nov 21 01:02	1°×20'13	1°06'18
evening set	6548 Oct 21 21:37	17°M36'57	21 22122 ATT	minimum elong	6554 Nov 21 01:02	1°×720'13	1°06'21
max. Earth dist.	6548 Nov 06 10:44	10 11611110	31.22133 AU	morning rise retrograde	6554 Dec 06 23:46 6555 Mar 04 06:12	1° х 55'21 3° х 47'43	
conjunction	6548 Nov 07 01:11	18°M12'30	0°55'34	opposition	6555 May 20 20:27	3°×'47'43 2°× 7 25'15	1°11'36
minimum elong	6548 Nov 07 01:10	18°M12'30		min. Earth dist.	6555 May 21 10:48		29.26462 AU
morning rise	6548 Nov 23 02:36	18°M47'52	3 33 31	direct	6555 Aug 09 00:24	1°×700'23	27.20702 AU
retrograde	6549 Feb 18 20:50	20°M40'48		evening set	6555 Nov 07 11:40	2° × ⁷ 55'42	
opposition	6549 May 07 07:36	19°M 18'12	1°00'26	<i>5</i>			
min. Earth dist.	6549 May 07 19:59		29.22513 AU	conjunction	6555 Nov 23 12:41	3° ∡ ³31′01	1°07'46
direct	6549 Jul 26 03:44	17°M53'30		minimum elong	6555 Nov 23 12:40	3° ₹ 31'01	1°07'49

E d E	(555.) 22.10.26	20 72007	21.26052 444		(5(0 D 00 01 11	100 747102	1015110
max. Earth dist.	6555 Nov 22 19:36		31.26853 AU	conjunction	6562 Dec 08 21:11	18° 🖈 47'23	1°15'10
morning rise	6555 Dec 09 11:02	4° ⋌ ¹06'08		minimum elong	6562 Dec 08 21:11	18° ₹ 47'23	1°15'13
retrograde	6556 Mar 05 17:50	5° ∡ ¹58'27		max. Earth dist.	6562 Dec 08 01:05		31.31276 AU
opposition	6556 May 22 06:32	4° ∡ °36′03	1°13'07	morning rise	6562 Dec 24 16:18	19° ≯ 22'16	
min. Earth dist.	6556 May 22 21:41	4° ∡ °35′00	29.27363 AU	retrograde	6563 Mar 21 14:51	21° ₹ 14'19	
direct	6556 Aug 10 11:31	3° ∡ 11'13		opposition	6563 Jun 07 07:19	19° ₹ 52'13	1°20'38
evening set	6556 Nov 08 23:42	5° ∡ ¹06'35		min. Earth dist.	6563 Jun 08 02:07	19° ∡ ¹50'55	29.31474 AU
max. Earth dist.	6556 Nov 24 07:55	5° ∡ ′40′21	31.27759 AU	direct	6563 Aug 26 18:55	18° 渘 ¹27'26	
				evening set	6563 Nov 25 10:33	20° ∡ ¹22'56	
conjunction	6556 Nov 25 00:27	5° ∡ ¹41'53	1°09'08				
minimum elong	6556 Nov 25 00:27	5° ∡ 1'53	1°09'11	conjunction	6563 Dec 11 08:19	20° ₹ '58'01	1°15'48
morning rise	6556 Dec 10 22:15	6° ∡ 16'57		minimum elong	6563 Dec 11 08:19	20° ₹ ′58′01	1°15'52
retrograde	6557 Mar 08 04:02	8° ₹ '09'14		max. Earth dist.	6563 Dec 10 12:19		31.31519 AU
opposition	6557 May 24 16:49		1°14'31	morning rise	6563 Dec 27 03:00	21° х 32'53	
min. Earth dist.	6557 May 25 08:22		29.28252 AU	retrograde	6564 Mar 23 00:44	23°×724'52	
direct	6557 Aug 13 00:40	5° ×7 22'07	2).20232 AU	opposition	6564 Jun 08 17:35	22° × 02'47	1°21'16
	•	7° ∡ 17'32		min. Earth dist.	6564 Jun 09 11:55		29.31696 AU
evening set	6557 Nov 11 11:50	/ x ·1/32					29.31090 AU
	(555)	50 3 5040	1010104	direct	6564 Aug 28 07:41	20° ₹ 37'58	
conjunction	6557 Nov 27 11:58	7° ∡ 752'48	1°10'24	evening set	6564 Nov 26 22:04	22° ∡ ³33′27	
minimum elong	6557 Nov 27 11:58		1°10'27			_	
max. Earth dist.	6557 Nov 26 17:57	7° ∡ 751′08	31.28622 AU	conjunction	6564 Dec 12 19:19	23° ≯ ′08'31	1°16'20
morning rise	6557 Dec 13 09:25	8° ∡ ¹27'51		minimum elong	6564 Dec 12 19:19	23° ҂ 08'31	1°16'23
retrograde	6558 Mar 10 15:04	10° ∡ 120′05		max. Earth dist.	6564 Dec 11 22:30	23° ҂ ¹06'35	31.31744 AU
opposition	6558 May 27 03:07	8° ∡ 757'50	1°15'49	morning rise	6564 Dec 28 13:37	23° ҂¹ 43'21	
min. Earth dist.	6558 May 27 18:53	8° ∡ ¹56'44	29.29088 AU	retrograde	6565 Mar 25 12:17	25° х ³35′18	
direct	6558 Aug 15 11:29	7° ∡ ³33'04		opposition	6565 Jun 11 04:07	24° 尽 13'12	1°21'47
evening set	6558 Nov 13 23:46	9° ∡ ¹28'31		min. Earth dist.	6565 Jun 11 22:50	24° ₹ 11'54	29.31952 AU
Z .				direct	6565 Aug 30 19:08	22° ҂ ⁴48′22	
conjunction	6558 Nov 29 23:39	10° х 03′46	1°11'33	evening set	6565 Nov 29 09:14	24° × ⁷ 43'51	
minimum elong	6558 Nov 29 23:39		1°11'37	max. Earth dist.	6565 Dec 14 10:25		31.32026 AU
max. Earth dist.	6558 Nov 29 06:12		31.29400 AU	max. Lartii dist.	0303 DCC 14 10.23	23 × 17 04	31.32020 AC
			31.29400 AU	aaniumatian	6565 Dec. 15, 06:00	250.710152	1016146
morning rise	6558 Dec 15 20:29	10° ₹ 38'47		conjunction	6565 Dec 15 06:09	25° ₹ 18'53	1°16'46
retrograde	6559 Mar 13 00:03	12° ∡ 30′59		minimum elong	6565 Dec 15 06:09	25° х 18'53	1°16'49
opposition	6559 May 29 13:33	11° ⋌ ¹08'48	1°17'00	morning rise	6565 Dec 30 23:53	25° ≯ 53'40	
min. Earth dist.	6559 May 30 06:26		29.29811 AU	retrograde	6566 Mar 27 21:49	27° ∡ ¹45'36	
direct	6559 Aug 17 23:32	9° ∡ ¹44'03		opposition	6566 Jun 13 14:41	26° ₹ ¹23'31	1°22'10
evening set	6559 Nov 16 11:44	11° ∡ ³39'32		min. Earth dist.	6566 Jun 14 09:16	26° ₹ 22'14	29.32272 AU
				direct	6566 Sep 02 08:21	24° 渘 ¹58'42	
conjunction	6559 Dec 02 11:04	12° ∡ 14'45	1°12'37	evening set	6566 Dec 01 20:31	26° ₹ 54'11	
minimum elong	6559 Dec 02 11:04	12° ∡ 14'45	1°12'40				
max. Earth dist.	6559 Dec 01 15:59	12° ∡ 12'59	31.30064 AU	conjunction	6566 Dec 17 16:51	27° ₹ 129'11	1°17'05
morning rise	6559 Dec 18 07:38	12° ∡ ¹49'44		minimum elong	6566 Dec 17 16:51	27° ∡ ²29'11	1°17'08
retrograde	6560 Mar 14 11:29	14° ∡ ¹41'54		max. Earth dist.	6566 Dec 16 20:16		31.32402 AU
opposition	6560 May 30 23:54	13° ∡ 19'45	1°18'05	morning rise	6567 Jan 02 10:17	28° ₹ 03'57	
min. Earth dist.	6560 May 31 16:29		29.30408 AU	retrograde	6567 Mar 30 08:46	29° × 55'51	
direct	6560 Aug 19 10:30	11° × 755'01	27.50400710	opposition	6567 Jun 16 01:09	28° 🗷 33'48	1°22'27
	•	13° ∡ 50′31		min. Earth dist.			29.32710 AU
evening set	6560 Nov 17 23:38	13 ×.3031			6567 Jun 16 19:11		29.32/10 AU
. ,.	(5(0 D 02 22 40	1.40.705140	1012124	direct	6567 Sep 04 18:54	27° 🗷 09'00	
conjunction	6560 Dec 03 22:40	14° ∡ ¹25'42		evening set	6567 Dec 04 07:32	29° ₹ 04'30	
minimum elong	6560 Dec 03 22:40	14° ∡ ¹25'42		max. Earth dist.	6567 Dec 19 08:18	29° × '37'41	31.32883 AU
max. Earth dist.	6560 Dec 03 03:43		31.30582 AU				
morning rise	6560 Dec 19 18:36	15° ∡ 00'40		conjunction	6567 Dec 20 03:39	29° ₹ 39'29	1°17'17
retrograde	6561 Mar 16 19:26	16° ∡ 52'47		minimum elong	6567 Dec 20 03:39	29° ₹ 39'29	1°17'20
opposition	6561 Jun 02 10:22	15° ∡ ³30'41	1°19'03		6567 Dec 29 08:54	0°ප	
min. Earth dist.	6561 Jun 03 04:31	15° ∡ ¹29'25	29.30865 AU	morning rise	6568 Jan 04 20:31	0° る 14'13	
direct	6561 Aug 21 21:14	14° ∡ ¹05'56		retrograde	6568 Mar 31 18:03	2° る 06'07	
evening set	6561 Nov 20 11:31	16° ∡ °01′26		opposition	6568 Jun 17 11:48	0° ප 44'07	1°22'36
Č				min. Earth dist.	6568 Jun 18 06:25		29.33220 AU
conjunction	6561 Dec 06 10:02	16° ∡ 736'36	1°14'25		6568 Jul 15 14:46	30°R. ✓	
minimum elong	6561 Dec 06 10:02		1°14'28	direct	6568 Sep 06 07:38	29° 🗷 19'22	
max. Earth dist.	6561 Dec 05 14:10		31.30984 AU	ancei	6568 Oct 27 07:35	29 メ ・1922	
			J1.JU204 AU	ovening set		0°る 1°る14'54	
morning rise	6561 Dec 22 05:38	17° 🗷 11'31		evening set	6568 Dec 05 18:45	1 01434	
retrograde	6562 Mar 19 05:22	19° ₹ 03'36	1010174		(5(0 F 21 ::::	10-7	1015122
opposition	6562 Jun 04 20:48	17° 🗷 41'30		conjunction	6568 Dec 21 14:16	1°る49'51	1°17'22
min. Earth dist.	6562 Jun 05 14:22		29.31208 AU	minimum elong	6568 Dec 21 14:16	1° ろ 49'51	1°17'25
direct	6562 Aug 24 09:19	16° ∡ 16'45		max. Earth dist.	6568 Dec 20 18:01		31.33424 AU
evening set	6562 Nov 22 23:03	18° ∡ 12'15		morning rise	6569 Jan 06 06:53	2° る 24'34	

	(5(0 A 02 05.42	40717120		(57) I 0(1(-22	170-202120 1014150
retrograde opposition	6569 Apr 03 05:43	4°쥥16'28 2°쥥54'32 1°22'39	minimum elong max. Earth dist.	6576 Jan 06 16:22 6576 Jan 05 19:04	17°る03'29 1°14'58 17°る01'31 31.34940 AU
min. Earth dist.	6569 Jun 19 22:20 6569 Jun 20 16:05	2°る53'19 29.3376'		6576 Jan 22 06:15	17 80131 31.34940 AU 17° る38'03
direct	6569 Sep 08 19:00	2 033 19 29.3376 1°る29'50	retrograde	6576 Apr 18 03:14	17 83803 19° そ 30'01
	6569 Dec 08 05:50	1 82930 3° 8 25'23	opposition	6576 Jul 05 03:03	19 83001 18°808'08 1°19'37
evening set max. Earth dist.	6569 Dec 23 05:27	3°る58'30 31.33960	* *	6576 Jul 05 03:03	18°る06'49 29.34902 AU
max. Earth dist.	0309 Dec 23 03.27	3 03630 31.33900	direct	6576 Sep 24 01:47	16°る43'31
conjunction	6569 Dec 24 01:03	4°る00'19 1°17'21	evening set	6576 Dec 23 10:18	18° ろ 38'57
minimum elong	6569 Dec 24 01:03	4°る00'19 1°17'24	max. Earth dist.	6577 Jan 07 06:39	19°る11'51 31.34708 AU
morning rise	6570 Jan 08 17:05	4°る35'00	max. Earth dist.	03// Jan 0/ 00.39	19 O11 31.34/00 AU
retrograde	6570 Apr 05 13:42	4 3 33 00 6° る 26'56	conjunction	6577 Jan 08 02:42	19°る13'43 1°14'08
opposition	6570 Jun 22 09:14	5°る05'03 1°22'34	minimum elong	6577 Jan 08 02:42	19°る13'43 1°14'11
min. Earth dist.	6570 Jun 23 04:08	5°る03'45 29.3428'		6577 Jan 23 16:03	19° る 48'15
direct	6570 Sep 11 05:37	3°る40'24	retrograde	6577 Apr 20 12:33	21° පි 40'13
evening set	6570 Dec 10 16:50	5° る 35'57	opposition	6577 Jul 07 14:13	20°る18'18 1°18'44
evening set	0370 DCC 10 10.30	3 03331	min. Earth dist.	6577 Jul 08 09:54	20°る16'58 29.34657 AU
conjunction	6570 Dec 26 11:33	6°る10'52 1°17'13	direct	6577 Sep 26 15:05	18° る 53'41
minimum elong	6570 Dec 26 11:33	6°る10'52 1°17'16	evening set	6577 Dec 25 20:55	20°る49'05
max. Earth dist.	6570 Dec 25 15:33	6°る09'00 31.34448	•	0377 DCC 23 20.33	20 04703
morning rise	6571 Jan 11 03:18	6° る 45'32	conjunction	6578 Jan 10 12:47	21° පි 23'49 1°13'15
retrograde	6571 Apr 07 23:27	8° ろ 37'28	minimum elong	6578 Jan 10 12:47	21° る 23'49 1°13'18
opposition	6571 Jun 24 20:01	7°る15'38 1°22'22	max. Earth dist.	6578 Jan 09 16:11	21°る23'49 1 13 10 21°る21'54 31.34480 AU
min. Earth dist.	6571 Jun 25 14:10	7°る14'23 29.34720		6578 Jan 26 01:57	21° る 58'20
direct	6571 Sep 13 17:06	5° る 51'01	retrograde	6578 Apr 22 23:59	23° る 50'19
evening set	6571 Dec 13 03:58	7°る46'34	opposition	6578 Jul 10 01:19	22°る28'23 1°17'44
evening set	03/1 Dec 15 03.50	7 04034	min. Earth dist.	6578 Jul 10 19:37	22°る27'08 29.34454 AU
conjunction	6571 Dec 28 22:16	8°る21'28 1°16'58	direct	6578 Sep 29 03:02	21°る03'45
minimum elong	6571 Dec 28 22:16	8°る21'28 1°17'01	evening set	6578 Dec 28 07:12	21° 303 43 22° 359'08
max. Earth dist.	6571 Dec 28 02:01	8°る19'35 31.3481'	•	0370 Dec 20 07.12	22 037 00
morning rise	6572 Jan 13 13:34	8° ろ 56'06	conjunction	6579 Jan 12 22:49	23° ප 33'51 1°12'16
retrograde	6572 Apr 09 09:14	10°る48'04	minimum elong	6579 Jan 12 22:49	23° ප 33'51 1°12'18
opposition	6572 Jun 26 06:54	9°る26'15 1°22'03	max. Earth dist.	6579 Jan 12 03:16	23°る32'02 31.34305 AU
min. Earth dist.	6572 Jun 27 02:11	9°る24'55 29.35033		6579 Jan 28 11:32	24° පි 08'21
direct	6572 Sep 15 02:09	8°る01'39	retrograde	6579 Apr 25 08:09	26° පි 00'23
evening set	6572 Dec 14 15:03	9° る 57'12	opposition	6579 Jul 12 12:36	24° පි 38'26 1°16'38
evening sec	0372 BCC 11 13.03) 3 37 12	min. Earth dist.	6579 Jul 13 07:30	24°る37'08 29.34321 AU
conjunction	6572 Dec 30 09:00	10°る32'04 1°16'37	direct	6579 Oct 01 14:01	23° ට 13'50
minimum elong	6572 Dec 30 09:00	10°る32'04 1°16'40	evening set	6579 Dec 30 17:39	25°පි09'12
max. Earth dist.	6572 Dec 29 12:53	10°る30'12 31.35060	- C	0377 BCC 30 17.37	23 307 12
morning rise	6573 Jan 14 23:52	11°る06'41	conjunction	6580 Jan 15 08:51	25° ප් 43'54 1°11'10
retrograde	6573 Apr 11 19:04	12° る 58'39	minimum elong	6580 Jan 15 08:51	25° ප් 43'54 1°11'13
opposition	6573 Jun 28 17:55	11°る36'51 1°21'37	max. Earth dist.	6580 Jan 14 13:31	25°る42'06 31.34222 AU
min. Earth dist.	6573 Jun 29 12:47	11° る 35'33 29.35193		6580 Jan 30 21:19	26°ති18'23
direct	6573 Sep 17 15:05	10° る 12'16	retrograde	6580 Apr 26 17:47	28° 3 10'28
evening set	6573 Dec 17 02:02	12° る 07'48	opposition	6580 Jul 13 23:39	26°ති48'32 1°15'24
<i>3</i>			min. Earth dist.	6580 Jul 14 17:11	26°る47'20 29.34265 AU
conjunction	6574 Jan 01 19:27	12°る42'38 1°16'09	direct	6580 Oct 03 01:27	25° පි 23'59
minimum elong	6574 Jan 01 19:27	12° る 42'38 1°16'13	evening set	6581 Jan 01 04:03	27° る 19'21
max. Earth dist.	6573 Dec 31 22:23	12°る40'40 31.3514:	_		
morning rise	6574 Jan 17 10:00	13° る 17'14	conjunction	6581 Jan 16 18:53	27°る54'04 1°09'59
retrograde	6574 Apr 14 06:25	15° る 09'13	minimum elong	6581 Jan 16 18:53	27°る54'04 1°10'01
opposition	6574 Jul 01 05:01	13°る47'23 1°21'04	max. Earth dist.	6581 Jan 15 23:53	27°る52'17 31.34197 AU
min. Earth dist.	6574 Jul 02 00:20	13°る46'04 29.35216	6 AU morning rise	6581 Feb 01 07:01	28° る 28'32
direct	6574 Sep 20 01:47	12° る 22'48		6581 Mar 25 02:42	0° ≈
evening set	6574 Dec 19 12:52	14° る 18'19	retrograde	6581 Apr 29 03:56	0°≈20'41
max. Earth dist.	6575 Jan 03 09:49	14° ප 51'15 31.35100) AU	6581 Jun 04 05:32	30° Ŗ ⋜
			opposition	6581 Jul 16 11:03	28°පි58'47 1°14'05
conjunction	6575 Jan 04 06:02	14° ප 53'07 1°15'35	min. Earth dist.	6581 Jul 17 05:02	28°る57'33 29.34263 AU
minimum elong	6575 Jan 04 06:02	14° ප් 53'07 1°15'39	direct	6581 Oct 05 10:06	27° る 34'18
morning rise	6575 Jan 19 20:06	15° る 27'42	evening set	6582 Jan 03 14:14	29° る 29'41
retrograde	6575 Apr 16 15:52	17° る 19'40	Č	6582 Jan 17 06:08	0° ≈
opposition	6575 Jul 03 16:01	15°る57'49 1°20'24	max. Earth dist.	6582 Jan 18 10:42	0°≈02'40 31.34205 AU
min. Earth dist.	6575 Jul 04 11:36	15° ප් 56'29 29.3510			
direct	6575 Sep 22 14:34	14° る 33'14	conjunction	6582 Jan 19 04:46	0°≈04'22 1°08'41
evening set	6575 Dec 21 23:43	16° る 28'42	minimum elong	6582 Jan 19 04:46	0°≈04'22 1°08'44
-			morning rise	6582 Feb 03 16:34	0° ≈ 38'50
conjunction	6576 Jan 06 16:22	17° පි 03'29 1°14'55	retrograde	6582 May 01 13:49	2°≈31'04

opposition	6582 Jul 18 22:28	1°≈09'12	1°12'38	evening set	6589 Jan 18 14:06	14° ≈ 44'39	
min. Earth dist.	6582 Jul 19 15:35		29.34250 AU	evening set	6589 Jan 25 12:41	15°≈	
mm. Lattii dist.	6582 Sep 06 13:13	1 ~00 02 30°Rる	2).54250 AO	max. Earth dist.	6589 Feb 02 09:23		31.31520 AU
direct	6582 Oct 07 22:30	29° ♂ 44'47		max. Earth dist.	0307100 02 07.23	13 7017 40	31.31320710
ancet	6582 Nov 07 17:16	0°≈		conjunction	6589 Feb 03 02:22	15° ≈ 19'15	0°56'59
evening set	6583 Jan 06 00:37	1°≈40'10		minimum elong	6589 Feb 03 02:23	15°≈19'15	0°57'00
e venning see	0000 0011 00 00.57	1		morning rise	6589 Feb 18 12:28	15°≈53'40	0 27 00
conjunction	6583 Jan 21 14:42	2°≈14'50	1°07'17	retrograde	6589 May 16 16:59	17°≈46'22	
minimum elong	6583 Jan 21 14:42	2°≈14'50	1°07'20	opposition	6589 Aug 03 08:17	16° ≈ 24'18	0°59'48
max. Earth dist.	6583 Jan 20 20:03		31.34174 AU	min. Earth dist.	6589 Aug 03 23:56		29.31159 AU
morning rise	6583 Feb 06 02:19	2° ≈ 49'18			6589 Oct 22 14:34	15°R≈	
retrograde	6583 May 04 01:44	4° ≈ 41'38		direct	6589 Oct 23 09:25	14° ≈ 59'59	
opposition	6583 Jul 21 09:51	3° ≈ 19'47	1°11'06		6589 Oct 24 04:13	15° ≈	
min. Earth dist.	6583 Jul 22 03:04	3° ≈ 18'37	29.34193 AU	evening set	6590 Jan 20 23:58	16° ≈ 55'09	
direct	6583 Oct 10 08:00	1°≈55'25					
evening set	6584 Jan 08 10:53	3° ≈ 50'49		conjunction	6590 Feb 05 11:56	17° ≈ 29'44	0°54'58
max. Earth dist.	6584 Jan 23 07:18	4° ≈ 23'51	31.34067 AU	minimum elong	6590 Feb 05 11:56	17° ≈ 29'44	0°55'00
				max. Earth dist.	6590 Feb 04 19:20	17° ≈ 28'10	31.30724 AU
conjunction	6584 Jan 24 00:48	4° ≈ 25'29	1°05'47	morning rise	6590 Feb 20 21:51	18° ≈ 04'08	
minimum elong	6584 Jan 24 00:48	4° ≈ 25′29	1°05'50	retrograde	6590 May 19 03:00	19° ≈ 56'53	
morning rise	6584 Feb 08 12:00	4° ≈ 59'56		opposition	6590 Aug 05 20:14	18° ≈ 34'44	0°57'37
retrograde	6584 May 05 11:39	6° ≈ 52'21		min. Earth dist.	6590 Aug 06 12:03	18° ≈ 33'40	29.30384 AU
opposition	6584 Jul 22 21:30	5° ≈ 30'30	1°09'27	direct	6590 Oct 25 19:37	17° ≈ 10′25	
min. Earth dist.	6584 Jul 23 14:47	5° ≈ 29'19	29.34019 AU	evening set	6591 Jan 23 09:49	19° ≈ 05'30	
direct	6584 Oct 11 19:48	4° ≈ 06'11					
evening set	6585 Jan 09 21:18	6° ≈ 01'35		conjunction	6591 Feb 07 21:36	19° ≈ 40′04	0°52'53
				minimum elong	6591 Feb 07 21:36	19° ≈ 40′04	0°52'55
conjunction	6585 Jan 25 10:41	6° ≈ 36'13	1°04'12	max. Earth dist.	6591 Feb 07 06:20	19° ≈ 38'38	31.29977 AU
minimum elong	6585 Jan 25 10:41	6° ≈ 36'13	1°04'14	morning rise	6591 Feb 23 07:15	20° ≈ 14′28	
max. Earth dist.	6585 Jan 24 16:19	6° ≈ 34'30	31.33833 AU	retrograde	6591 May 21 11:52	22° ≈ 07'17	
morning rise	6585 Feb 09 21:45	7° ≈ 10'40		opposition	6591 Aug 08 07:56	20° ≈ 45′05	0°55'21
retrograde	6585 May 07 23:53	9° ≈ 03'10		min. Earth dist.	6591 Aug 08 22:27		29.29666 AU
opposition	6585 Jul 25 09:10	7° ≈ 41'19	1°07'42	direct	6591 Oct 28 08:09	19° ≈ 20'45	
min. Earth dist.	6585 Jul 26 01:50		29.33720 AU	evening set	6592 Jan 25 19:47	21° ≈ 15'47	
direct	6585 Oct 14 06:45	6°≈17'02					
evening set	6586 Jan 12 07:33	8° ≈ 12'25		conjunction	6592 Feb 10 07:10	21°≈50'21	0°50'43
				minimum elong	6592 Feb 10 07:10	21°≈50'21	0°50'45
conjunction	6586 Jan 27 20:46	8°≈47'03	1°02'31	max. Earth dist.	6592 Feb 09 15:42		31.29311 AU
minimum elong	6586 Jan 27 20:46	8°≈47'03	1°02'34	morning rise	6592 Feb 25 16:45	22°≈24'45	
max. Earth dist.	6586 Jan 27 03:31		31.33456 AU	retrograde	6592 May 22 23:01	24°≈17'39	0952100
morning rise	6586 Feb 12 07:25	9°≈21'29		opposition	6592 Aug 09 19:52	22°≈55'23	
retrograde opposition	6586 May 10 10:30	11°≈14'03 9°≈52'10	1°05'52	min. Earth dist. direct	6592 Aug 10 09:47 6592 Oct 29 17:25	22°≈3427 21°≈31'05	29.29054 AU
min. Earth dist.	6586 Jul 27 21:00 6586 Jul 28 14:18		29.33267 AU	evening set	6593 Jan 27 05:27	21 ≈31 03 23°≈26'05	
direct	6586 Oct 16 20:16	9 ≈30 39 8°≈27'54	29.33207 AU	evening set	0393 Jan 27 03.27	23 ~2003	
evening set	6587 Jan 14 17:48	10°≈23'15		conjunction	6593 Feb 11 16:44	24° ≈ 00'39	0°48'29
evening set	0307 3411 14 17.40	10 ~25 15		minimum elong	6593 Feb 11 16:45	24°≈00'39	
conjunction	6587 Jan 30 06:36	10°≈57'52	1°00'45	max. Earth dist.	6593 Feb 11 03:09		31.28743 AU
minimum elong	6587 Jan 30 06:36	10°≈57'52	1°00'47	morning rise	6593 Feb 27 02:00	24°≈35'03	31.207 13 110
max. Earth dist.	6587 Jan 29 12:39		31.32939 AU	retrograde	6593 May 25 08:44	26° ≈ 28'03	
morning rise	6587 Feb 14 17:11	11° ≈ 32'17		opposition	6593 Aug 12 07:53	25°≈05'46	0°50'34
retrograde	6587 May 12 22:33	13° ≈ 24'55		min. Earth dist.	6593 Aug 12 21:15		29.28515 AU
opposition	6587 Jul 30 08:41	12° ≈ 02'59	1°03'56	direct	6593 Nov 01 04:44	23° ≈ 41'31	
min. Earth dist.	6587 Jul 31 00:51	12° ≈ 01'53	29.32670 AU	evening set	6594 Jan 29 15:20	25° ≈ 36'30	
direct	6587 Oct 19 08:42	10° ≈ 38'43		Ü			
evening set	6588 Jan 17 03:58	12° ≈ 34'01		conjunction	6594 Feb 14 02:13	26°≈11'02	0°46'10
-				minimum elong	6594 Feb 14 02:13	26° ≈ 11'02	0°46'12
conjunction	6588 Feb 01 16:34	13° ≈ 08'37	0°58'54	max. Earth dist.	6594 Feb 13 12:22	26° ≈ 09'45	31.28248 AU
minimum elong	6588 Feb 01 16:34	13° ≈ 08'37	0°58'57	morning rise	6594 Mar 01 11:30	26° ≈ 45′27	
max. Earth dist.	6588 Jan 31 23:15	13° ≈ 07'00	31.32272 AU	retrograde	6594 May 27 21:18	28° ≈ 38'34	
morning rise	6588 Feb 17 02:49	13° ≈ 43′02		opposition	6594 Aug 14 19:51	27° ≈ 16′16	0°48'04
	6588 Mar 28 17:13	15° ≈		min. Earth dist.	6594 Aug 15 08:01	27° ≈ 15′27	29.28042 AU
retrograde	6588 May 14 07:06	15° ≈ 35'42		direct	6594 Nov 03 15:08	25° ≈ 52'04	
	6588 Jul 01 16:34	15°R ≈		evening set	6595 Feb 01 01:00	27° ≈ 47′03	
opposition	6588 Jul 31 20:29	14° ≈ 13'43	1°01'55				
min. Earth dist.	6588 Aug 01 13:31	14° ≈ 12'33	29.31947 AU	conjunction	6595 Feb 16 11:49	28° ≈ 21'35	0°43'47
direct	6588 Oct 20 20:29	12° ≈ 49′26		minimum elong	6595 Feb 16 11:50	28° ≈ 21'35	0°43'48

				(-),		, r.8
max. Earth dist.	6595 Feb 15 23:35	28° ≈≈ 20'27	31.27777 AU	min. Earth dist.	6601 Aug 31 19:32	12°) 33'11 29.22811 AU
morning rise	6595 Mar 03 20:50	28°≈56'00		direct	6601 Nov 20 00:27	11° ₭ 09'52
morning rise	6595 Apr 05 03:26	0° ∀			0001110120 00.27	11 /(0) 02
retrograde	6595 May 30 08:20	0°) 49'15				
	6595 Jul 27 10:20	30°R≈				
opposition	6595 Aug 17 08:01	29°≈26'56	0°45'29			
min. Earth dist.	6595 Aug 17 20:26		29.27560 AU			
direct	6595 Nov 06 03:25	28°≈02'48	29.27300110			
evening set	6596 Feb 03 10:53	29°≈57'46				
evening set	6596 Feb 04 11:16	0° \				
	0390100 04 11.10	0 /				
conjunction	6596 Feb 18 21:21	0°) 32′18	0°41'21			
minimum elong	6596 Feb 18 21:21	0°) 32′18				
•			31.27287 AU			
max. Earth dist.	6596 Feb 18 08:55		31.2/28/ AU			
morning rise	6596 Mar 05 06:21	1° ¥ 06'44				
retrograde	6596 May 31 20:53	3° ₩ 00'06	0040151			
opposition	6596 Aug 18 20:05	1°) € 37'46				
min. Earth dist.	6596 Aug 19 07:01		29.27036 AU			
direct	6596 Nov 07 15:05	0°) 13'42				
evening set	6597 Feb 04 20:46	2° ∺ 08'40				
conjunction	6597 Feb 20 07:05	2°) 43′12				
minimum elong	6597 Feb 20 07:05	2° 升 43′12	0°38'51			
max. Earth dist.	6597 Feb 19 19:28	2°) 42′07	31.26721 AU			
morning rise	6597 Mar 07 15:52	3° 升 17'38				
retrograde	6597 Jun 03 07:05	5° ₩ 11'08				
opposition	6597 Aug 21 08:35	3°) 48'48	0°40'08			
min. Earth dist.	6597 Aug 21 20:07	3°) 48′01	29.26430 AU			
direct	6597 Nov 10 02:35	2°)(24'47				
evening set	6598 Feb 07 06:34	4° ₩ 19'43				
conjunction	6598 Feb 22 16:40	4°) 54'16	0°36'17			
minimum elong	6598 Feb 22 16:40	4°) 54'16	0°36'18			
max. Earth dist.	6598 Feb 22 05:35	4°) 53′13	31.26068 AU			
morning rise	6598 Mar 10 01:23	5°) €28'42				
retrograde	6598 Jun 05 18:11	7°) 22′19				
opposition	6598 Aug 23 20:55	5° ¥ 59'57	0°37'22			
min. Earth dist.	6598 Aug 24 07:06		29.25706 AU			
direct	6598 Nov 12 15:32	4°) ₹35'59	29.20,00110			
evening set	6599 Feb 09 16:32	6° ₩ 30'54				
evening see	00,000 0, 10.52	0 7(300.				
conjunction	6599 Feb 25 02:25	7° ₩ 05'27	0°33'40			
minimum elong	6599 Feb 25 02:25	7° ₩ 05'27				
max. Earth dist.	6599 Feb 24 15:16		31.25276 AU			
morning rise	6599 Mar 12 11:05	7° H 39'53	31.23270 AC			
retrograde	6599 Jun 08 05:14	9° H 33'38				
opposition	6599 Aug 26 09:18	8° X 11'13	0.34,33			
min. Earth dist.	6599 Aug 26 19:57		29.24855 AU			
	6599 Nov 15 01:58	6° ∺ 47'17	29.24633 AU			
direct						
evening set	6600 Feb 12 02:26	8° ¥ 42'09				
conjunction	6600 Feb 27 12:15	9° ₩ 16'41	0°31'00			
minimum elong	6600 Feb 27 12:15	9° X 16'41				
•						
max. Earth dist.	6600 Feb 27 02:11		31.24364 AU			
morning rise	6600 Mar 14 20:44	9° 升 51'09				
retrograde	6600 Jun 10 14:40	11° X 45'00	0021141			
opposition	6600 Aug 28 21:46	10°) €22'31				
min. Earth dist.	6600 Aug 29 07:24		29.23869 AU			
direct	6600 Nov 17 14:50	8° ¥ 58'35				
evening set	6601 Feb 14 12:16	10°) 53′24				
conjunction	6601 Mar 01 21:45	11° ∺ 27'56				
minimum elong	6601 Mar 01 21:45	11° ¥ 27'56				
max. Earth dist.	6601 Mar 01 11:16		31.23335 AU			
morning rise	6601 Mar 17 06:20	12°) €02'24				
ratrograda	6601 Jun 13 01:50	130¥ 56'22				

retrograde

opposition

6601 Jun 13 01:59

6601 Aug 31 10:20

13°**¥**56′22

12°**)** 33'48 0°28'46