conjunction minimum elong	6100 Jan 22 11:01 6100 Jan 22 11:01	2°≈54'31	0°20'16		6106 Mar 01 06:02	0° ∀	
max. Earth dist.	6100 Jan 22 08:27		19.86632 AU	morning rise	6106 Mar 05 19:18	0°) 16′12	
morning rise	6100 Feb 07 07:23	3° ≈ 52'39		retrograde	6106 Jun 05 08:27	3°) €27'49	
retrograde	6100 May 09 15:05	7° ≈ 08'12		opposition	6106 Aug 20 11:58	1°) 28′24	-0°43'27
opposition	6100 Jul 23 16:48	5° ≈ 08'05	-0°24'26	min. Earth dist.	6106 Aug 20 05:42	1°) 29′02	18.27995 AU
min. Earth dist.	6100 Jul 23 18:47	5° ≈ 07'53	17.89706 AU		6106 Sep 29 19:58	30° R ≈	
direct	6100 Oct 08 20:06	3° ≈ 05'09		direct	6106 Nov 05 18:16	29° ≈ 27'22	
evening set	6101 Jan 11 05:47	6° ≈ 25′29			6106 Dec 11 16:19	0° ∀	
				evening set	6107 Feb 06 19:55	2°) 40′48	
conjunction	6101 Jan 27 03:52	7°≈23'41				201/2011	
minimum elong	6101 Jan 27 03:52	7°≈23'41		conjunction	6107 Feb 22 13:40	3°) (37′10	
max. Earth dist.	6101 Jan 27 02:24 6101 Feb 11 23:35	/°≈23'28 8°≈21'32	19.92818 AU	minimum elong max. Earth dist.	6107 Feb 22 13:40 6107 Feb 22 20:55	3° ¥ 37'10	0°40'15 20.31302 AU
morning rise retrograde	6101 Feb 11 23:35 6101 May 14 09:10	8°≈21'32 11°≈36'25		max. Earth dist.	6107 Feb 22 20:33 6107 Mar 10 06:24	4°)(33'23	20.31302 AU
opposition	6101 Jul 28 13:34	9°≈36'27	-0°28'09	retrograde	6107 Jun 09 22:50	7°) 44'27	
min. Earth dist.	6101 Jul 28 13:24		17.95913 AU	opposition	6107 Aug 25 04:53	5°) (45'10	-0°45'46
direct	6101 Oct 13 19:18	7°≈33'49	17.55515110	min. Earth dist.	6107 Aug 24 20:09		18.34600 AU
evening set	6102 Jan 15 22:38	10° ≈ 53'03		direct	6107 Nov 10 10:42	3°) (44′31	
C				evening set	6108 Feb 11 07:07	6°) 56′51	
conjunction	6102 Jan 31 19:53	11° ≈ 50'56	-0°26'59				
minimum elong	6102 Jan 31 19:53	11° ≈ 50′56	0°26'58	conjunction	6108 Feb 27 00:29	7° ¥ 52'57	-0°42'14
max. Earth dist.	6102 Jan 31 19:59	11° ≈ 50'57	19.99048 AU	minimum elong	6108 Feb 27 00:29	7° ¥ 52'57	0°42'13
morning rise	6102 Feb 16 14:53	12° ≈ 48′30		max. Earth dist.	6108 Feb 27 10:01	7°) € 54′23	20.37891 AU
	6102 Mar 30 20:10	15° ≈		morning rise	6108 Mar 13 16:49	8°) 48′56	
retrograde	6102 May 18 23:33	16° ≈ 02'42		retrograde	6108 Jun 13 10:29	11° 米 59′26	
	6102 Jul 09 10:54	15°R≈		opposition	6108 Aug 28 21:14	10°) €00'20	
opposition	6102 Aug 02 09:46	14°≈02'51		min. Earth dist.	6108 Aug 28 12:08		18.41169 AU
min. Earth dist.	6102 Aug 02 09:25		18.02176 AU	direct	6108 Nov 14 01:37	8° 米 00'05 11° 米 11'19	
direct	6102 Oct 18 15:26 6103 Jan 15 08:08	12°≈00'31 15°≈		evening set	6109 Feb 14 17:38	11° 大 11'19	
evening set	6103 Ian 20 14:28	15°2218'36		conjunction	6100 Mar 02 10.28	12°\07'10	-0°43'58
evening set	6103 Jan 20 14:28	15°≈18'36		conjunction	6109 Mar 02 10:28 6109 Mar 02 10:28	12° 升 07'10	
			-0°30'04	minimum elong	6109 Mar 02 10:28	12°) €07'10	0°43'58
conjunction minimum elong	6103 Jan 20 14:28 6103 Feb 05 10:53 6103 Feb 05 10:53	15°≈18'36 16°≈16'10 16°≈16'10	-0°30'04 0°30'02	•		12°) €07'10	
conjunction	6103 Feb 05 10:53	16°≈16'10 16°≈16'10		minimum elong max. Earth dist.	6109 Mar 02 10:28 6109 Mar 02 20:21	12°) €07'10 12°) €08'38	0°43'58
conjunction minimum elong	6103 Feb 05 10:53 6103 Feb 05 10:53	16°≈16'10 16°≈16'10	0°30'02	minimum elong max. Earth dist. morning rise	6109 Mar 02 10:28 6109 Mar 02 20:21 6109 Mar 18 02:45	12°¥07'10 12°¥08'38 13°¥02'55	0°43'58 20.44420 AU
conjunction minimum elong max. Earth dist.	6103 Feb 05 10:53 6103 Feb 05 10:53 6103 Feb 05 11:59	16°≈16'10 16°≈16'10 16°≈16'20	0°30'02	minimum elong max. Earth dist. morning rise retrograde	6109 Mar 02 10:28 6109 Mar 02 20:21 6109 Mar 18 02:45 6109 Jun 18 00:06	12°¥07'10 12°¥08'38 13°¥02'55 16°¥12'54 14°¥13'57	0°43'58 20.44420 AU
conjunction minimum elong max. Earth dist. morning rise	6103 Feb 05 10:53 6103 Feb 05 10:53 6103 Feb 05 11:59 6103 Feb 21 05:22	16°≈16'10 16°≈16'10 16°≈16'20 17°≈13'26	0°30'02 20.05347 AU	minimum elong max. Earth dist. morning rise retrograde opposition	6109 Mar 02 10:28 6109 Mar 02 20:21 6109 Mar 18 02:45 6109 Jun 18 00:06 6109 Sep 02 12:54	12°₩07'10 12°₩08'38 13°₩02'55 16°₩12'54 14°₩13'57 14°₩15'05 12°₩14'05	0°43'58 20.44420 AU -0°49'35
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	6103 Feb 05 10:53 6103 Feb 05 10:53 6103 Feb 05 11:59 6103 Feb 21 05:22 6103 May 23 16:08 6103 Aug 07 05:19 6103 Aug 07 02:31	16°≈16'10 16°≈16'10 16°≈16'20 17°≈13'26 20°≈26'59 18°≈27'13 18°≈27'30	0°30'02 20.05347 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	6109 Mar 02 10:28 6109 Mar 02 20:21 6109 Mar 18 02:45 6109 Jun 18 00:06 6109 Sep 02 12:54 6109 Sep 02 01:46	12°\color=100 12°\color=100 12°\color=1008'38 13°\color=102'55 16°\color=12'54 14°\color=12'57 14°\color=12'57 14°\color=12'57	0°43'58 20.44420 AU -0°49'35
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	6103 Feb 05 10:53 6103 Feb 05 10:53 6103 Feb 05 11:59 6103 Feb 21 05:22 6103 May 23 16:08 6103 Aug 07 05:19 6103 Aug 07 02:31 6103 Oct 23 12:58	$16^{\circ} \approx 16'10$ $16^{\circ} \approx 16'10$ $16^{\circ} \approx 16'20$ $17^{\circ} \approx 13'26$ $20^{\circ} \approx 26'59$ $18^{\circ} \approx 27'13$ $18^{\circ} \approx 27'30$ $16^{\circ} \approx 25'11$	0°30'02 20.05347 AU -0°34'59	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6109 Mar 02 10:28 6109 Mar 02 20:21 6109 Mar 18 02:45 6109 Jun 18 00:06 6109 Sep 02 12:54 6109 Sep 02 01:46 6109 Nov 18 16:19 6110 Feb 19 03:23	12°\text{\tiny{\text{\tinx{\text{\tinx{\text{\tinx{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinx{\tinx{\tinx{\tinx{\tinx{\text{\text{\text{\text{\tex{\text{\tinx{\text{\tetx{\text{\text{\text{\tin\tinx{\text{\tinx{\text{\tinx{\text{\text{\texit{\text{\texi{\text{\texi{\texi\tint{\tert{\tintet{\text{\ti}\tint{\text{\tint}\text{\tiint{\texi{\texit{\texi{\tet	0°43'58 20.44420 AU -0°49'35 18.47635 AU
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conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6103 Feb 05 10:53 6103 Feb 05 10:53 6103 Feb 05 11:59 6103 Feb 21 05:22 6103 May 23 16:08 6103 Aug 07 05:19 6103 Aug 07 02:31 6103 Oct 23 12:58 6104 Jan 25 05:07	$16^{\circ} \approx 16'10$ $16^{\circ} \approx 16'10$ $16^{\circ} \approx 16'20$ $17^{\circ} \approx 13'26$ $20^{\circ} \approx 26'59$ $18^{\circ} \approx 27'13$ $18^{\circ} \approx 27'30$ $16^{\circ} \approx 25'11$ $19^{\circ} \approx 42'05$	0°30'02 20.05347 AU -0°34'59 18.08504 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	6109 Mar 02 10:28 6109 Mar 02 20:21 6109 Mar 18 02:45 6109 Jun 18 00:06 6109 Sep 02 12:54 6109 Nov 18 16:19 6110 Feb 19 03:23 6110 Mar 06 19:56 6110 Mar 06 19:56	12°\tag{07'10} 12°\tag{08'38} 13°\tag{02'55} 16°\tag{12'54} 14°\tag{13'57} 14°\tag{15'05} 12°\tag{14'05} 15°\tag{24'17} 16°\tag{19'53} 16°\tag{19'53}	0°43'58 20.44420 AU -0°49'35 18.47635 AU -0°45'28 0°45'28
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conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	6103 Feb 05 10:53 6103 Feb 05 10:53 6103 Feb 05 11:59 6103 Feb 21 05:22 6103 May 23 16:08 6103 Aug 07 05:19 6103 Aug 07 02:31 6103 Oct 23 12:58 6104 Jan 25 05:07 6104 Feb 10 00:51 6104 Feb 10 00:51 6104 Feb 10 04:06 6104 Feb 25 18:43 6104 May 27 04:59	16°≈16'10 16°≈16'20 17°≈13'26 20°≈26'59 18°≈27'13 18°≈27'30 16°≈25'11 19°≈42'05 20°≈39'20 20°≈39'20 20°≈39'50 21°≈36'20 24°≈49'13	0°30'02 20.05347 AU -0°34'59 18.08504 AU -0°32'56 0°32'55 20.11708 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	6109 Mar 02 10:28 6109 Mar 02 20:21 6109 Mar 18 02:45 6109 Jun 18 00:06 6109 Sep 02 12:54 6109 Sep 02 01:46 6109 Nov 18 16:19 6110 Feb 19 03:23 6110 Mar 06 19:56 6110 Mar 07 07:53 6110 Mar 22 11:54 6110 Jun 22 10:48 6110 Sep 07 04:08 6110 Sep 06 16:47	12°\times 07'10 12°\times 08'38 13°\times 02'55 16°\times 12'54 14°\times 13'57 14°\times 15'05 12°\times 14'05 15°\times 24'17 16°\times 19'53 16°\times 21'39 17°\times 15'25 20°\times 24'55 18°\times 26'08 18°\times 27'17	0°43'58 20.44420 AU -0°49'35 18.47635 AU -0°45'28 0°45'28 20.50794 AU
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	6103 Feb 05 10:53 6103 Feb 05 10:53 6103 Feb 05 11:59 6103 Feb 21 05:22 6103 May 23 16:08 6103 Aug 07 05:19 6103 Aug 07 02:31 6103 Oct 23 12:58 6104 Jan 25 05:07 6104 Feb 10 00:51 6104 Feb 10 00:51 6104 Feb 10 04:06 6104 Feb 25 18:43	16°≈16'10 16°≈16'20 17°≈13'26 20°≈26'59 18°≈27'13 18°≈27'30 16°≈25'11 19°≈42'05 20°≈39'20 20°≈39'50 21°≈36'20 24°≈49'13 22°≈49'32	0°30'02 20.05347 AU -0°34'59 18.08504 AU -0°32'56 0°32'55 20.11708 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	6109 Mar 02 10:28 6109 Mar 02 20:21 6109 Mar 18 02:45 6109 Jun 18 00:06 6109 Sep 02 12:54 6109 Sep 02 01:46 6109 Nov 18 16:19 6110 Feb 19 03:23 6110 Mar 06 19:56 6110 Mar 07 07:53 6110 Mar 22 11:54 6110 Jun 22 10:48 6110 Sep 07 04:08	12°\text{\ti}\text{\texi{\text{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\text{\texit{\text{\tet	0°43'58 20.44420 AU -0°49'35 18.47635 AU -0°45'28 0°45'28 20.50794 AU
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	6103 Feb 05 10:53 6103 Feb 05 10:53 6103 Feb 05 11:59 6103 Feb 21 05:22 6103 May 23 16:08 6103 Aug 07 05:19 6103 Aug 07 02:31 6103 Oct 23 12:58 6104 Jan 25 05:07 6104 Feb 10 00:51 6104 Feb 10 00:51 6104 Feb 10 04:06 6104 Feb 25 18:43 6104 May 27 04:59 6104 Aug 11 00:20	16°≈16'10 16°≈16'20 17°≈13'26 20°≈26'59 18°≈27'13 18°≈27'30 16°≈25'11 19°≈42'05 20°≈39'20 20°≈39'50 21°≈36'20 24°≈49'13 22°≈49'32	0°30'02 20.05347 AU -0°34'59 18.08504 AU -0°32'56 0°32'55 20.11708 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	6109 Mar 02 10:28 6109 Mar 02 20:21 6109 Mar 18 02:45 6109 Jun 18 00:06 6109 Sep 02 12:54 6109 Sep 02 01:46 6109 Nov 18 16:19 6110 Feb 19 03:23 6110 Mar 06 19:56 6110 Mar 07 07:53 6110 Mar 22 11:54 6110 Jun 22 10:48 6110 Sep 07 04:08 6110 Sep 06 16:47 6110 Nov 23 06:06	12°\times 07'10 12°\times 08'38 13°\times 02'55 16°\times 12'54 14°\times 13'57 14°\times 15'05 12°\times 14'05 15°\times 24'17 16°\times 19'53 16°\times 21'39 17°\times 15'25 20°\times 24'55 18°\times 26'08 18°\times 27'17 16°\times 26'40	0°43'58 20.44420 AU -0°49'35 18.47635 AU -0°45'28 0°45'28 20.50794 AU
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conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	6103 Feb 05 10:53 6103 Feb 05 10:53 6103 Feb 05 11:59 6103 Feb 21 05:22 6103 May 23 16:08 6103 Aug 07 05:19 6103 Aug 07 02:31 6103 Oct 23 12:58 6104 Jan 25 05:07 6104 Feb 10 00:51 6104 Feb 10 00:51 6104 Feb 10 04:06 6104 Feb 25 18:43 6104 May 27 04:59 6104 Aug 11 00:20 6104 Aug 10 21:06 6104 Oct 27 07:10	16°≈16'10 16°≈16'20 17°≈13'26 20°≈26'59 18°≈27'13 18°≈27'30 16°≈25'11 19°≈42'05 20°≈39'20 20°≈39'50 21°≈36'20 24°≈49'13 22°≈49'52 20°≈49'52 20°≈47'49	0°30'02 20.05347 AU -0°34'59 18.08504 AU -0°32'56 0°32'55 20.11708 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6109 Mar 02 10:28 6109 Mar 02 20:21 6109 Mar 18 02:45 6109 Jun 18 00:06 6109 Sep 02 12:54 6109 Sep 02 01:46 6109 Nov 18 16:19 6110 Feb 19 03:23 6110 Mar 06 19:56 6110 Mar 07 07:53 6110 Mar 22 11:54 6110 Jun 22 10:48 6110 Sep 07 04:08 6110 Sep 06 16:47 6110 Nov 23 06:06 6111 Feb 23 12:39	12°\times 07'10 12°\times 08'38 13°\times 02'55 16°\times 12'54 14°\times 13'57 14°\times 15'05 12°\times 14'05 15°\times 24'17 16°\times 19'53 16°\times 19'53 16°\times 21'39 17°\times 15'25 20°\times 24'55 18°\times 26'08 18°\times 27'17 16°\times 26'40 19°\times 35'49	0°43'58 20.44420 AU -0°49'35 18.47635 AU -0°45'28 0°45'28 20.50794 AU -0°51'05 18.53915 AU
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max. Earth dist.	6112 Mar 15 02:52	24°¥43'08	20.62855 AU	min. Earth dist.	6118 Oct 10 16:25	21° ℃ 17'24	18.91954 AU
morning rise	6112 Mar 30 04:58	25°\ 36'16	20.02033 110	direct	6118 Dec 26 23:45	19° Υ 18'20	10.51551710
retrograde	6112 Jun 30 09:37	28° H 44'53		evening set	6119 Mar 27 17:38	22° Υ 20'30	
•			0052115	evening set	0119 Wai 2/ 17.36	22 1 20 30	
opposition	6112 Sep 15 08:54	26°\(\frac{1}{46}\)20			(110) 10 00 10	222001 426	00.4512.6
min. Earth dist.	6112 Sep 14 19:52		18.65691 AU	conjunction	6119 Apr 12 09:42	23° Y 14'36	
direct	6112 Dec 01 07:47	24°) 47′35		minimum elong	6119 Apr 12 09:42	23° Y 14'36	
evening set	6113 Mar 03 05:13	27° ¥ 54'45		max. Earth dist.	6119 Apr 13 02:44		20.93550 AU
				morning rise	6119 Apr 28 03:28	24° Y 08'57	
conjunction	6113 Mar 18 20:54	28°) 49′42	-0°48'26	retrograde	6119 Jul 30 03:45	27° Y 15′18	
minimum elong	6113 Mar 18 20:54	28°) 49'42	0°48'26	opposition	6119 Oct 15 19:08	25° Ƴ 16'46	-0°52'05
max. Earth dist.	6113 Mar 19 10:15	28° ¥ 51'40	20.68404 AU	min. Earth dist.	6119 Oct 15 01:49	25° Y 18′29	18.95136 AU
morning rise	6113 Apr 03 12:59	29°) 44'42		direct	6119 Dec 31 07:41	23° Ƴ 19'31	
morning rise	6113 Apr 08 00:14	0°Υ		evening set	6120 Mar 30 22:09	26° Y 21'04	
	6113 Jul 04 21:20	2° Υ 52'55		evening set	0120 Wai 30 22.07	20 21 04	
retrograde			0052155		(100 A 15 14 40	2700015106	0046127
opposition	6113 Sep 19 22:13	0°Υ54'26		conjunction	6120 Apr 15 14:40	27°Υ15'06	
min. Earth dist.	6113 Sep 19 08:03		18.71054 AU	minimum elong	6120 Apr 15 14:40	27° Y 15'06	
	6113 Oct 13 09:19	30° ₹ ₩		max. Earth dist.	6120 Apr 16 09:21		20.96567 AU
direct	6113 Dec 05 20:11	28° ∺ 55'58		morning rise	6120 May 01 08:47	28° Ƴ 09'24	
	6114 Jan 25 21:50	0 ° Υ			6120 Jun 06 21:12	9° 8	
evening set	6114 Mar 07 12:37	2° Y 02'13		retrograde	6120 Aug 02 11:46	1° 8 15'35	
•				•	6120 Sep 30 20:18	30° ₹ Υ	
conjunction	6114 Mar 23 04:21	2° Y 57'00	-0°48'55	min. Earth dist.	6120 Oct 18 11:10	•	18.97986 AU
minimum elong	6114 Mar 23 04:21	2° Υ 57'00	0°48'56	opposition	6120 Oct 19 04:51	29° Υ 17'03	
2	6114 Mar 23 19:16		20.73556 AU			27° Υ 19'59	-0 30 32
max. Earth dist.			20.73330 AU	direct	6121 Jan 03 16:14		
morning rise	6114 Apr 07 20:23	3° Y 51′50			6121 Mar 28 19:43	0°8	
retrograde	6114 Jul 09 06:36	6° Y 59'39		evening set	6121 Apr 04 02:40	0° 8 20'59	
opposition	6114 Sep 24 11:13	5° Ƴ 01'14	-0°54'18				
min. Earth dist.	6114 Sep 23 21:01	5° Y 02'39	18.75998 AU	conjunction	6121 Apr 19 19:22	1° 8 14'58	-0°45'24
direct	6114 Dec 10 07:09	3° Y 03'02		minimum elong	6121 Apr 19 19:22	1° 8 14'58	0°45'26
evening set	6115 Mar 11 19:26	6° Ƴ 08'22		max. Earth dist.	6121 Apr 20 13:21	1° 8 17'34	20.99255 AU
•				morning rise	6121 May 05 14:09	2° 8 09'14	
conjunction	6115 Mar 27 11:00	7° Y ′02'57	-0°49'09	retrograde	6121 Aug 06 19:57	5° 8 15'19	
minimum elong	6115 Mar 27 10:59	7° Υ 02'57	0°49'09	opposition	6121 Oct 23 14:08	3° 8 16'46	-0°49'24
max. Earth dist.	6115 Mar 28 01:27		20.78298 AU	min. Earth dist.	6121 Oct 22 20:05	_	19.00504 AU
		7° Υ 57'40	20.78298 AU			_	19.00304 AU
morning rise	6115 Apr 12 03:24			direct	6122 Jan 07 22:49	1° 8 19'53	
retrograde	6115 Jul 13 17:04	11° Y 05'08		evening set	6122 Apr 08 06:52	4° 8 20'24	
opposition	6115 Sep 28 23:35	9° Ƴ 06'42					
min. Earth dist.	6115 Sep 28 08:26	9° Ƴ 08'13	18.80539 AU	conjunction	6122 Apr 24 00:07	5° 8 14'21	-0°43'59
direct	6115 Dec 14 18:33	7° Y 08'43		minimum elong	6122 Apr 24 00:07	5° 8 14'21	0°44'00
evening set	6116 Mar 15 01:38	10° Ƴ 13'10		max. Earth dist.	6122 Apr 24 19:31	5° 8 17'08	21.01588 AU
				morning rise	6122 May 09 19:19	6° ႘ 08'37	
conjunction	6116 Mar 30 17:24	11° Ƴ 07'38	-0°49'08	retrograde	6122 Aug 11 03:27	9° 8 14'36	
minimum elong	6116 Mar 30 17:24	11° Ƴ 07'38	0°49'08	opposition	6122 Oct 27 23:13	7° 8 16'05	-0°47'43
max. Earth dist.	6116 Mar 31 09:31		20.82632 AU	min. Earth dist.	6122 Oct 27 04:55		19.02641 AU
morning rise	6116 Apr 15 09:55	12° Υ 02'13	20.02032710	direct	6123 Jan 12 06:38	5° 8 19'22	19.02011110
•	6116 Jul 17 01:44	15° Υ 09'19				8° 8 19'27	
retrograde			0054112	evening set	6123 Apr 12 11:05	8 01927	
opposition	6116 Oct 02 11:12	13° Y 10′52			(100) 00 01 00	001410100	00.4010.1
min. Earth dist.	6116 Oct 01 19:56		18.84682 AU	conjunction	6123 Apr 28 04:38	9° 8 13'23	
direct	6116 Dec 18 04:37	11° Y 13′05		minimum elong	6123 Apr 28 04:38	9° 8 13'23	
evening set	6117 Mar 19 07:27	14° Y 16'43		max. Earth dist.	6123 Apr 28 23:09	_	21.03533 AU
				morning rise	6123 May 14 00:38	10° 8 07'39	
conjunction					0123 May 14 00.36	10 00/37	
	6117 Apr 03 23:10	15° Ƴ 11'02	-0°48'52	retrograde	6123 Aug 15 12:14	13° 8 13'39	
minimum elong	6117 Apr 03 23:10 6117 Apr 03 23:10	15° Υ 11'02 15° Υ 11'02		-			-0°45'47
	6117 Apr 03 23:10	15° Ƴ 11'02	0°48'53	retrograde opposition	6123 Aug 15 12:14 6123 Nov 01 08:04	13° 8 13'39 11° 8 15'06	
max. Earth dist.	6117 Apr 03 23:10 6117 Apr 04 14:51	15° Υ 11'02 15° Υ 13'19		retrograde opposition min. Earth dist.	6123 Aug 15 12:14 6123 Nov 01 08:04 6123 Oct 31 13:49	13° 8 13'39 11° 8 15'06 11° 8 16'55	-0°45'47 19.04378 AU
max. Earth dist. morning rise	6117 Apr 03 23:10 6117 Apr 04 14:51 6117 Apr 19 16:11	15°Υ11'02 15°Υ13'19 16°Υ05'32	0°48'53	retrograde opposition min. Earth dist. direct	6123 Aug 15 12:14 6123 Nov 01 08:04 6123 Oct 31 13:49 6124 Jan 16 12:27	13° 8 13'39 11° 8 15'06 11° 8 16'55 9° 8 18'31	
max. Earth dist. morning rise retrograde	6117 Apr 03 23:10 6117 Apr 04 14:51 6117 Apr 19 16:11 6117 Jul 21 10:59	15°Υ11'02 15°Υ13'19 16°Υ05'32 19°Υ12'20	0°48'53 20.86598 AU	retrograde opposition min. Earth dist.	6123 Aug 15 12:14 6123 Nov 01 08:04 6123 Oct 31 13:49	13° 8 13'39 11° 8 15'06 11° 8 16'55	
max. Earth dist. morning rise retrograde opposition	6117 Apr 03 23:10 6117 Apr 04 14:51 6117 Apr 19 16:11 6117 Jul 21 10:59 6117 Oct 06 22:19	15°Y11'02 15°Y13'19 16°Y05'32 19°Y12'20 17°Y13'51	0°48'53 20.86598 AU -0°53'47	retrograde opposition min. Earth dist. direct evening set	6123 Aug 15 12:14 6123 Nov 01 08:04 6123 Oct 31 13:49 6124 Jan 16 12:27 6124 Apr 15 15:16	13° 8 13'39 11° 8 15'06 11° 8 16'55 9° 8 18'31 12° 8 18'16	19.04378 AU
max. Earth dist. morning rise retrograde opposition min. Earth dist.	6117 Apr 03 23:10 6117 Apr 04 14:51 6117 Apr 19 16:11 6117 Jul 21 10:59 6117 Oct 06 22:19 6117 Oct 06 06:11	15°Υ11'02 15°Υ13'19 16°Υ05'32 19°Υ12'20 17°Υ13'51 17°Υ15'27	0°48'53 20.86598 AU	retrograde opposition min. Earth dist. direct evening set conjunction	6123 Aug 15 12:14 6123 Nov 01 08:04 6123 Oct 31 13:49 6124 Jan 16 12:27 6124 Apr 15 15:16 6124 May 01 09:29	13° 8 13'39 11° 8 15'06 11° 8 16'55 9° 8 18'31 12° 8 18'16	19.04378 AU -0°40'31
max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	6117 Apr 03 23:10 6117 Apr 04 14:51 6117 Apr 19 16:11 6117 Jul 21 10:59 6117 Oct 06 22:19 6117 Oct 06 06:11 6117 Dec 22 14:22	15°Υ11'02 15°Υ13'19 16°Υ05'32 19°Υ12'20 17°Υ13'51 17°Υ15'27 15°Υ16'14	0°48'53 20.86598 AU -0°53'47	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	6123 Aug 15 12:14 6123 Nov 01 08:04 6123 Oct 31 13:49 6124 Jan 16 12:27 6124 Apr 15 15:16 6124 May 01 09:29 6124 May 01 09:29	13°813'39 11°815'06 11°816'55 9°818'31 12°818'16 13°812'12	19.04378 AU -0°40'31 0°40'33
max. Earth dist. morning rise retrograde opposition min. Earth dist.	6117 Apr 03 23:10 6117 Apr 04 14:51 6117 Apr 19 16:11 6117 Jul 21 10:59 6117 Oct 06 22:19 6117 Oct 06 06:11	15°Υ11'02 15°Υ13'19 16°Υ05'32 19°Υ12'20 17°Υ13'51 17°Υ15'27	0°48'53 20.86598 AU -0°53'47	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	6123 Aug 15 12:14 6123 Nov 01 08:04 6123 Oct 31 13:49 6124 Jan 16 12:27 6124 Apr 15 15:16 6124 May 01 09:29 6124 May 01 09:29 6124 May 02 05:05	13°813'39 11°815'06 11°816'55 9°818'31 12°818'16 13°812'12 13°812'12 13°815'01	19.04378 AU -0°40'31
max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	6117 Apr 03 23:10 6117 Apr 04 14:51 6117 Apr 19 16:11 6117 Jul 21 10:59 6117 Oct 06 22:19 6117 Oct 06 06:11 6117 Dec 22 14:22 6118 Mar 23 12:37	15°Y11'02 15°Y13'19 16°Y05'32 19°Y12'20 17°Y13'51 17°Y15'27 15°Y16'14 18°Y19'06	0°48'53 20.86598 AU -0°53'47 18.88483 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	6123 Aug 15 12:14 6123 Nov 01 08:04 6123 Oct 31 13:49 6124 Jan 16 12:27 6124 Apr 15 15:16 6124 May 01 09:29 6124 May 01 09:29	13°&13'39 11°&15'06 11°&16'55 9°&18'31 12°&18'16 13°&12'12 13°&12'12 13°&15'01 14°&06'30	19.04378 AU -0°40'31 0°40'33
max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	6117 Apr 03 23:10 6117 Apr 04 14:51 6117 Apr 19 16:11 6117 Jul 21 10:59 6117 Oct 06 22:19 6117 Oct 06 06:11 6117 Dec 22 14:22	15°Υ11'02 15°Υ13'19 16°Υ05'32 19°Υ12'20 17°Υ13'51 17°Υ15'27 15°Υ16'14	0°48'53 20.86598 AU -0°53'47 18.88483 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	6123 Aug 15 12:14 6123 Nov 01 08:04 6123 Oct 31 13:49 6124 Jan 16 12:27 6124 Apr 15 15:16 6124 May 01 09:29 6124 May 01 09:29 6124 May 02 05:05	13°813'39 11°815'06 11°816'55 9°818'31 12°818'16 13°812'12 13°812'12 13°815'01	19.04378 AU -0°40'31 0°40'33
max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6117 Apr 03 23:10 6117 Apr 04 14:51 6117 Apr 19 16:11 6117 Jul 21 10:59 6117 Oct 06 22:19 6117 Oct 06 06:11 6117 Dec 22 14:22 6118 Mar 23 12:37	15°Y11'02 15°Y13'19 16°Y05'32 19°Y12'20 17°Y13'51 17°Y15'27 15°Y16'14 18°Y19'06	0°48'53 20.86598 AU -0°53'47 18.88483 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	6123 Aug 15 12:14 6123 Nov 01 08:04 6123 Oct 31 13:49 6124 Jan 16 12:27 6124 Apr 15 15:16 6124 May 01 09:29 6124 May 01 09:29 6124 May 02 05:05 6124 May 17 06:00	13°&13'39 11°&15'06 11°&16'55 9°&18'31 12°&18'16 13°&12'12 13°&12'12 13°&15'01 14°&06'30	19.04378 AU -0°40'31 0°40'33
max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction	6117 Apr 03 23:10 6117 Apr 04 14:51 6117 Apr 19 16:11 6117 Jul 21 10:59 6117 Oct 06 22:19 6117 Oct 06 06:11 6117 Dec 22 14:22 6118 Mar 23 12:37	15°Υ11'02 15°Υ05'32 19°Υ12'20 17°Υ13'51 17°Υ15'27 15°Υ16'14 18°Υ19'06	0°48'53 20.86598 AU -0°53'47 18.88483 AU -0°48'21	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	6123 Aug 15 12:14 6123 Nov 01 08:04 6123 Oct 31 13:49 6124 Jan 16 12:27 6124 Apr 15 15:16 6124 May 01 09:29 6124 May 01 09:29 6124 May 02 05:05 6124 May 17 06:00 6124 Jun 02 18:22	13°&13'39 11°&15'06 11°&16'55 9°&18'31 12°&18'16 13°&12'12 13°&12'12 13°&15'01 14°&06'30 15°&	19.04378 AU -0°40'31 0°40'33 21.05040 AU
max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	6117 Apr 03 23:10 6117 Apr 04 14:51 6117 Apr 19 16:11 6117 Jul 21 10:59 6117 Oct 06 22:19 6117 Oct 06 06:11 6117 Dec 22 14:22 6118 Mar 23 12:37 6118 Apr 08 04:37 6118 Apr 08 04:37	15°Υ11'02 15°Υ05'32 19°Υ12'20 17°Υ13'51 17°Υ15'27 15°Υ16'14 18°Υ19'06	0°48'53 20.86598 AU -0°53'47 18.88483 AU -0°48'21 0°48'22	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	6123 Aug 15 12:14 6123 Nov 01 08:04 6123 Oct 31 13:49 6124 Jan 16 12:27 6124 Apr 15 15:16 6124 May 01 09:29 6124 May 02 05:05 6124 May 17 06:00 6124 Jun 02 18:22 6124 Aug 18 19:09	13°&13'39 11°&15'06 11°&16'55 9°&18'31 12°&18'16 13°&12'12 13°&12'12 13°&15'01 14°&06'30 15°& 17°&12'29 15°&13'57	19.04378 AU -0°40'31 0°40'33 21.05040 AU
max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	6117 Apr 03 23:10 6117 Apr 04 14:51 6117 Apr 19 16:11 6117 Jul 21 10:59 6117 Oct 06 22:19 6117 Oct 06 06:11 6117 Dec 22 14:22 6118 Mar 23 12:37 6118 Apr 08 04:37 6118 Apr 08 04:37 6118 Apr 08 22:06	15°Y11'02 15°Y13'19 16°Y05'32 19°Y12'20 17°Y13'51 17°Y15'27 15°Y16'14 18°Y19'06 19°Y13'19 19°Y13'19	0°48'53 20.86598 AU -0°53'47 18.88483 AU -0°48'21 0°48'22	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	6123 Aug 15 12:14 6123 Nov 01 08:04 6123 Oct 31 13:49 6124 Jan 16 12:27 6124 Apr 15 15:16 6124 May 01 09:29 6124 May 02 05:05 6124 May 17 06:00 6124 Jun 02 18:22 6124 Aug 18 19:09 6124 Nov 04 16:28 6124 Nov 03 22:20	13°&13'39 11°&15'06 11°&16'55 9°&18'31 12°&18'16 13°&12'12 13°&12'12 13°&15'01 14°&06'30 15°& 17°&12'29 15°&13'57	19.04378 AU -0°40'31 0°40'33 21.05040 AU -0°43'39
max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	6117 Apr 03 23:10 6117 Apr 04 14:51 6117 Apr 19 16:11 6117 Jul 21 10:59 6117 Oct 06 22:19 6117 Oct 06 06:11 6117 Dec 22 14:22 6118 Mar 23 12:37 6118 Apr 08 04:37 6118 Apr 08 04:37 6118 Apr 08 22:06 6118 Apr 23 21:48	15°Y11'02 15°Y13'19 16°Y05'32 19°Y12'20 17°Y13'51 17°Y15'27 15°Y16'14 18°Y19'06 19°Y13'19 19°Y13'19 19°Y15'51 20°Y07'43	0°48'53 20.86598 AU -0°53'47 18.88483 AU -0°48'21 0°48'22 20.90225 AU	retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	6123 Aug 15 12:14 6123 Nov 01 08:04 6123 Oct 31 13:49 6124 Jan 16 12:27 6124 Apr 15 15:16 6124 May 01 09:29 6124 May 02 05:05 6124 May 17 06:00 6124 Jun 02 18:22 6124 Aug 18 19:09 6124 Nov 04 16:28	13°&13'39 11°&15'06 11°&16'55 9°&18'31 12°&18'16 13°&12'12 13°&12'12 13°&15'01 14°&06'30 15°& 17°&12'29 15°&13'57 15°&15'46	19.04378 AU -0°40'31 0°40'33 21.05040 AU -0°43'39

	6125 Mar 26 09:10	15° 8		minimum elong	6131 May 29 23:07	11° Ⅲ 03'08	0°22'50
evening set	6125 Apr 19 19:42	16° 8 16'57		max. Earth dist.	6131 May 30 14:25	11° Ⅱ 05'19	21.00943 AU
-	-			morning rise	6131 Jun 15 01:22	11° ∏ 58′02	
conjunction	6125 May 05 14:19	17° 8 10'54	-0°38'29	retrograde	6131 Sep 17 04:17	15° Ⅱ 05'01	
minimum elong	6125 May 05 14:19	17° 8 10'54	0°38'31	min. Earth dist.	6131 Dec 03 09:57	13° 耳 07′03	18.99785 AU
max. Earth dist.	6125 May 06 08:33	17° 8 13'31	21.06064 AU	opposition	6131 Dec 04 00:12	13° Ⅱ 05'37	-0°23'28
morning rise	6125 May 21 11:41	18° 8 05'14		direct	6132 Feb 17 12:16	11° Ⅱ 08'47	
retrograde	6125 Aug 23 04:08	21° 8 11'17		evening set	6132 May 17 05:46	14° Ⅱ 07'54	
min. Earth dist.	6125 Nov 08 07:19	19° 8 14'28	19.06411 AU				
opposition	6125 Nov 09 00:55	19° 8 12'42	-0°41'18	conjunction	6132 Jun 02 05:37	15° Ⅱ 02'29	-0°19'43
direct	6126 Jan 24 00:53	17° 8 16'19		minimum elong	6132 Jun 02 05:37	15° Ⅱ 02'29	0°19'44
evening set	6126 Apr 23 23:58	20° 8 15'33		max. Earth dist.	6132 Jun 02 21:29		20.98508 AU
				morning rise	6132 Jun 18 08:33	15° Ⅱ 57'32	
conjunction	6126 May 09 19:20	21° 8 09'33	-0°36'17	retrograde	6132 Sep 20 13:04	19° Ⅱ 04'49	
minimum elong	6126 May 09 19:20	21° 8 09'33		opposition	6132 Dec 07 07:33	17° Ⅱ 05'15	
max. Earth dist.	6126 May 10 14:20		21.06554 AU	min. Earth dist.	6132 Dec 06 17:21		18.97173 AU
morning rise	6126 May 25 17:15	22° 8 03'56		direct	6133 Feb 20 18:18	15° Ⅱ 08'19	
retrograde	6126 Aug 27 11:18	25° 8 10'04		evening set	6133 May 21 11:48	18° Ⅱ 07'40	
opposition	6126 Nov 13 09:13	23° 8 11'25					
min. Earth dist.	6126 Nov 12 15:49	_	19.06615 AU	conjunction	6133 Jun 06 12:18	19° ∏ 02'25	
direct	6127 Jan 28 07:40	21° 8 15'04		minimum elong	6133 Jun 06 12:18	19° Ⅱ 02'25	
evening set	6127 Apr 28 04:39	24° 8 14'07		max. Earth dist.	6133 Jun 07 02:30		20.95739 AU
				morning rise	6133 Jun 22 16:18	19° Ⅱ 57'38	
conjunction	6127 May 14 00:31	25° 8 08'10		retrograde	6133 Sep 24 22:04	23° Ⅱ 05'16	
minimum elong	6127 May 14 00:31	25° 8 08'10		opposition	6133 Dec 11 15:15	21° Ⅱ 05'34	
max. Earth dist.	6127 May 14 17:52	_	21.06481 AU	min. Earth dist.	6133 Dec 11 02:05		18.94247 AU
morning rise	6127 May 29 23:23	26° 8 02'38		direct	6134 Feb 24 23:20	19° ∏ 08'29	
retrograde	6127 Aug 31 19:54	29° 8 08'53		evening set	6134 May 25 17:58	22° ∏ 08'10	
opposition	6127 Nov 17 17:19	27° 8 10'07				_	
min. Earth dist.	6127 Nov 17 00:48	_	19.06259 AU	conjunction	6134 Jun 10 19:30	23° Ⅱ 03'05	
direct	6128 Feb 01 12:53	25° 8 13'44		minimum elong	6134 Jun 10 19:31	23° Ⅱ 03'05	0°13'17
evening set	6128 May 01 09:16	28° 8 12'39		behind sun begin	6134 Jun 10 15:40	23° I I02'33	
	(120) (17 0(0)	2001 1001 5	0001100	behind sun end	6134 Jun 10 23:21	23° I I03'37	20.02655.444
conjunction	6128 May 17 06:01	29° 8 06'47		max. Earth dist.	6134 Jun 11 10:17		20.92657 AU
minimum elong	6128 May 17 06:01	29° 8 06'47		morning rise	6134 Jun 27 00:14	23° II 58'29	
max. Earth dist.	6128 May 17 23:52	_	21.05839 AU	retrograde	6134 Sep 29 07:54	27° I 106'31	0012144
	6128 Jun 01 19:59	0°II		opposition	6134 Dec 15 23:00	25° Ⅱ 06'42	
morning rise	6128 Jun 02 05:33	0° Ⅱ 01'20		min. Earth dist.	6134 Dec 15 09:49		18.91002 AU
retrograde	6128 Sep 04 03:39	3° Ⅱ 07'42	10.05221 ATT	direct	6135 Mar 01 05:21	23° Ⅱ 09'30	
min. Earth dist.	6128 Nov 20 08:58	1° П 10'26 1° П 08'48	19.05331 AU	evening set	6135 May 30 01:01	26° Ⅱ 09'35	
opposition	6128 Nov 21 01:12 6128 Dec 21 15:09	1 доз 48 30°R 8	-0 33 07	agnismation	6135 Jun 15 03:17	27° Ⅲ 04'41	0000154
direct	6129 Feb 04 19:40	29° 8 12'21		conjunction minimum elong	6135 Jun 15 03:17	27° I I04'41	0°09'57
direct	6129 Mar 20 10:33	0°II		behind sun begin	6135 Jun 14 21:54	27° I I04'41	0 0937
evening set	6129 May 05 14:07	2° I I1'13		behind sun end	6135 Jun 15 08:39	27° I I05'26	
evening set	012) Way 03 14.07	2 11113		max. Earth dist.	6135 Jun 15 16:13		20.89267 AU
conjunction	6129 May 21 11:25	3° Ⅱ 05'25	-0°28'38	morning rise	6135 Jul 01 09:04	28° I I00'32	20.07207 AC
minimum elong	6129 May 21 11:25	3° I I05'25		morning rise	6135 Aug 10 16:55	0°95	
max. Earth dist.	6129 May 22 03:37		21.04659 AU	retrograde	6135 Oct 03 17:54	1° © 08'45	
morning rise	6129 Jun 06 11:56	4° Ⅱ 00'05		22428-444	6135 Nov 28 15:07	30°Ŗ Ⅱ	
retrograde	6129 Sep 08 11:43	7° I 106'37		opposition	6135 Dec 20 06:54	29° I 108'49	-0°09'00
opposition	6129 Nov 25 08:58	5° Ⅱ 07'33	-0°30'02	min. Earth dist.	6135 Dec 19 19:06		18.87461 AU
min. Earth dist.	6129 Nov 24 17:41		19.03907 AU	direct	6136 Mar 04 10:27	27° Ⅱ 11'29	
direct	6130 Feb 09 00:46	3° Ⅱ 10'59			6136 May 29 18:06	0ಂತಾ	
evening set	6130 May 09 19:01	6° Ⅱ 09'51		evening set	6136 Jun 02 08:30	0°512'03	
C	,			S			
conjunction	6130 May 25 17:14	7° Ⅱ 04'10	-0°25'47	conjunction	6136 Jun 18 11:50	1° 5 07'22	-0°06'31
minimum elong	6130 May 25 17:15	7° Ⅱ 04'10	0°25'49	minimum elong	6136 Jun 18 11:50	1° © 07'22	
max. Earth dist.	6130 May 26 10:06	7° Ⅱ 06'34	21.03007 AU	behind sun begin	6136 Jun 18 05:35	1° 5 06'30	
morning rise	6130 Jun 10 18:26	7° Ⅱ 58'56		behind sun end	6136 Jun 18 18:04	1°508'14	
retrograde	6130 Sep 12 20:00	11° Ⅱ 05'40		max. Earth dist.	6136 Jun 19 01:03	1° © 09'15	20.85569 AU
opposition	6130 Nov 29 16:34	9° Ⅱ 06'25	-0°26'49	morning rise	6136 Jul 04 18:21	2°503'10	
min. Earth dist.	6130 Nov 29 01:22	9° Ⅱ 07'57	19.02035 AU	retrograde	6136 Oct 07 05:11	5° © 12'07	
direct	6131 Feb 13 07:17	7° Ⅱ 09'45		opposition	6136 Dec 23 14:59	3° © 12'06	-0°05'12
evening set	6131 May 14 00:15	10° Ⅱ 08'41		min. Earth dist.	6136 Dec 23 03:24	3° © 13'17	18.83592 AU
				direct	6137 Mar 08 17:16	1° © 14'37	
conjunction	6131 May 29 23:07	11° Ⅲ 03′08	-0°22'48	evening set	6137 Jun 06 16:44	4° © 15'45	

conjunction	6137 Jun 22 20:45	5°©11'16	-0°03'04		6142 Oct 27 09:10	$0^{\circ}\Omega$	
minimum elong	6137 Jun 22 20:46	5° © 11'16	0°03'06	retrograde	6142 Nov 02 09:30	0° Ω 00'54	
behind sun begin	6137 Jun 22 14:08	5° © 10'20			6142 Nov 08 08:30	30° ₹ 5	
behind sun end	6137 Jun 23 03:24	5° © 12'12		opposition	6143 Jan 17 22:58	27° © 59'54	0°17'57
max. Earth dist.	6137 Jun 23 07:56		20.81539 AU	min. Earth dist.	6143 Jan 17 18:54		18.52680 AU
morning rise	6137 Jul 09 04:18	6°907'17		direct	6143 Apr 02 16:35	26°900'52	
retrograde	6137 Oct 11 16:05	9°916'46	0001121	evening set	6143 Jul 02 10:28	29°506'25	
opposition min. Earth dist.	6137 Dec 27 23:32 6137 Dec 27 13:40	7°516'39	-0°01′21 18.79392 AU		6143 Jul 17 20:00	$0^{\circ}\Omega$	
direct	6138 Mar 12 22:29	5° © 19'01	16.79392 AU	conjunction	6143 Jul 18 19:52	0° Ω 03'29	0°17'53
asc. node	6138 May 05 14:00	6°930'33		minimum elong	6143 Jul 18 19:52	0°Ω03'29	0°17'52
evening set	6138 Jun 11 01:40	8°920'45		max. Earth dist.	6143 Jul 18 22:30		20.49587 AU
S				morning rise	6143 Aug 04 08:15	1° Ω 00'59	
conjunction	6138 Jun 27 06:46	9° 5 16'31	0°00'31	retrograde	6143 Nov 06 22:41	4° Ω 13'52	
minimum elong	6138 Jun 27 06:45	9° 5 016'31	0°00'29	opposition	6144 Jan 22 09:33	2° Ω 12'38	0°21'40
behind sun begin	6138 Jun 27 00:07	9° © 15'35		min. Earth dist.	6144 Jan 22 07:41	2° Ω 12'49	18.46414 AU
behind sun end	6138 Jun 27 13:24	9° © 17'27		direct	6144 Apr 06 01:34	0° Ω 13'12	
max. Earth dist.	6138 Jun 27 17:54		20.77160 AU	evening set	6144 Jul 06 00:06	3° Ω 19'41	
morning rise	6138 Jul 13 14:59	10° © 12'46				_	
retrograde	6138 Oct 16 05:09	13°522'48		conjunction	6144 Jul 22 10:30	4°Ω17'02	
opposition	6139 Jan 01 08:13	11°522'33	0°02'32	minimum elong	6144 Jul 22 10:29	4°Ω17'02	
min. Earth dist.	6138 Dec 31 22:50		18.74819 AU	max. Earth dist.	6144 Jul 22 12:42		20.43236 AU
direct	6139 Mar 17 06:41	9°524'44		morning rise	6144 Aug 07 23:26	5° Ω 14'47	
evening set	6139 Jun 15 11:32	12° © 27'09		retrograde opposition	6144 Nov 10 13:45 6145 Jan 25 20:31	8° Ω 28'16 6° Ω 26'48	0°25'18
conjunction	6139 Jul 01 17:22	13° © 23'10	0°04'05	min. Earth dist.	6145 Jan 25 18:51		18.39991 AU
minimum elong	6139 Jul 01 17:22	13° S 23'10	0°04'03	direct	6145 Apr 10 13:06	4° Ω 27'01	10.57771 AC
behind sun begin	6139 Jul 01 10:47	13° © 22'14	0 0105	evening set	6145 Jul 10 14:34	7° Ω 34'26	
behind sun end	6139 Jul 01 23:58	13°9524'05				, 000 0	
max. Earth dist.	6139 Jul 02 02:00	13° © 24'23	20.72393 AU	conjunction	6145 Jul 27 01:36	8° Ω 32'04	0°24'25
morning rise	6139 Jul 18 02:37	14° © 19'39		minimum elong	6145 Jul 27 01:36	8° Ω 32'04	0°24'23
retrograde	6139 Oct 20 16:45	17° © 30'15		max. Earth dist.	6145 Jul 27 01:40	8° Ω 32'04	20.36759 AU
opposition	6140 Jan 05 17:26	15° © 29'52	0°06'25	morning rise	6145 Aug 12 15:17	9° Ω 30′05	
min. Earth dist.	6140 Jan 05 10:12	15° © 30'36	18.69851 AU	retrograde	6145 Nov 15 03:59	12° Ω 44'13	
direct	6140 Mar 20 12:43	13° © 31'48		opposition	6146 Jan 30 08:10	10° Ω 42'31	
evening set	6140 Jun 18 22:07	16° © 34'57		min. Earth dist.	6146 Jan 30 08:30	10° Ω 42'29	18.33487 AU
	(140 * 1 05 05 01		0005104	direct	6146 Apr 14 23:23	8° Ω 42'20	
conjunction	6140 Jul 05 05:01	17°531'12	0°07'34	evening set	6146 Jul 15 05:53	11° Ω 50'46	
minimum elong	6140 Jul 05 05:00	17°931'12	0°0/32	aaniumatian	6146 Jul 21 17:51	12° Ω 48'42	0027121
behind sun begin behind sun end	6140 Jul 04 22:56 6140 Jul 05 11:04	17° © 30'21 17° © 32'04		conjunction minimum elong	6146 Jul 31 17:51 6146 Jul 31 17:51	12° Ω 48'42	0°27'31 0°27'30
max. Earth dist.	6140 Jul 05 13:09		20.67218 AU	max. Earth dist.	6146 Jul 31 17:29		20.30237 AU
morning rise	6140 Jul 21 14:53	18°927'56	20.07210110	morning rise	6146 Aug 17 08:03	13° Ω 46'59	20.30237 110
retrograde	6140 Oct 24 06:50	21°539'05			6146 Sep 08 15:19	15° Ω	
opposition	6141 Jan 09 02:48	19° © 38'32	0°10'18	retrograde	6146 Nov 19 20:20	17° Ω 01'45	
min. Earth dist.	6141 Jan 08 20:09	19° © 39'13	18.64467 AU	opposition	6147 Feb 03 20:02	14° Ω 59'52	0°32'12
direct	6141 Mar 24 22:19	17° 5 40'11			6147 Feb 03 18:46	15° R Ω	
evening set	6141 Jun 23 09:32	20°5544'06		min. Earth dist.	6147 Feb 03 20:28		18.26956 AU
				direct	6147 Apr 19 11:51	12° Ω 59'19	
conjunction	6141 Jul 09 17:09	21° © 40'37			6147 Jun 29 00:32	15° Ω	
minimum elong	6141 Jul 09 17:09	21°540'37	0°11'02	evening set	6147 Jul 19 22:18	16° Ω 08'49	
behind sun begin	6141 Jul 09 12:10	21°539'54			(147 A 05 10.52	170 007102	0920120
behind sun end max. Earth dist.	6141 Jul 09 22:09 6141 Jul 09 22:40	21°541'19	20.61650 AU	conjunction minimum elong	6147 Aug 05 10:53	17° Ω 07'02 17° Ω 07'02	0°30'29 0°30'27
morning rise	6141 Jul 26 04:00	21 941 24 22°937'35	20.01030 AU	max. Earth dist.	6147 Aug 05 10:53 6147 Aug 05 08:31	17° Ω 06'41	
retrograde	6141 Oct 28 19:03	22 3 37 33 25° 9 49'19		morning rise	6147 Aug 22 01:43	17 82 0041 18° Ω 05'36	20.23703 AU
opposition	6142 Jan 13 12:47	23°548'33	0°14'09	retrograde	6147 Nov 24 11:52	21° Ω 21'02	
min. Earth dist.	6142 Jan 13 08:18		18.58727 AU	opposition	6148 Feb 08 08:45	19° Ω 18'58	0°35'25
direct	6142 Mar 29 05:56	21°549'52		min. Earth dist.	6148 Feb 08 11:11		18.20448 AU
evening set	6142 Jun 27 21:26	24°954'34		direct	6148 Apr 22 23:28	17° Ω 18'05	
-				evening set	6148 Jul 23 15:28	20° Ω 28'41	
conjunction	6142 Jul 14 06:08	25° © 51'22	0°14'30				
minimum elong	6142 Jul 14 06:08	25° © 51'22	0°14'28	conjunction	6148 Aug 09 04:50	21° Q 27'12	0°33'17
behind sun begin	6142 Jul 14 03:16	25° © 50'57		minimum elong	6148 Aug 09 04:50	21° Ω 27'12	
behind sun end	6142 Jul 14 09:00	25° © 51'46		max. Earth dist.	6148 Aug 09 01:52		20.17224 AU
max. Earth dist.	6142 Jul 14 11:14		20.55755 AU	morning rise	6148 Aug 25 20:04	22° Ω 26'02	
morning rise	6142 Jul 30 17:38	26°5948'36		retrograde	6148 Nov 28 05:40	25° Ω 42'09	

opposition	6149 Feb 11 21:51	23° Ω 39'57	0°38'27	conjunction	6155 Sep 11 12:47	22° m 44'44	0°47'08
min. Earth dist.	6149 Feb 12 00:18	23° Ω 39'41	18.13999 AU	minimum elong	6155 Sep 11 12:47	22° m 44'44	0°47'08
direct	6149 Apr 27 13:19	21° Ω 38'44		max. Earth dist.	6155 Sep 10 23:44	-	19.73895 AU
evening set	6149 Jul 28 09:44	24° Ω 50'30		morning rise	6155 Sep 28 05:33	23° m 45'17	
				retrograde	6155 Dec 31 00:38	27° m 05'49	
conjunction	6149 Aug 13 23:40	25° Ω 49'19	0°35'55	opposition	6156 Mar 14 13:32	25° m 03'00	0°53'01
minimum elong	6149 Aug 13 23:40	25° Ω 49'19	0°35'54	min. Earth dist.	6156 Mar 15 01:29		17.70996 AU
max. Earth dist.	6149 Aug 13 19:00		20.10813 AU	direct	6156 May 28 07:51	22° m 59'31	
morning rise	6149 Aug 30 15:22	26° Ω 48'25		evening set	6156 Aug 29 20:42	26° Mp 19'36	
. 1	6149 Nov 18 20:25	0° m)			(15(0 15 12 22	270 m- 2011 0	0040104
retrograde	6149 Dec 02 22:38	0° m 05'13		conjunction	6156 Sep 15 13:32	27° m 20'19	0°48'04
	6149 Dec 17 03:27 6150 Feb 16 11:48	30°R Ω	0041117	minimum elong	6156 Sep 15 13:32	27° m 20'19	0°48'05
opposition		28° Ω 02'56	18.07639 AU	max. Earth dist.	6156 Sep 14 22:31	-	19.68130 AU
min. Earth dist. direct	6150 Feb 16 16:18 6150 May 02 02:10	26° Ω 01'25	18.07039 AU	morning rise	6156 Oct 02 06:22 6156 Nov 01 04:12	28° Mp 21'04 0° <u> </u>	
evening set	6150 Aug 02 04:53	20° Ω 14'22		retrograde	6157 Jan 03 23:01	0 == 1° £ 42'06	
evening set	6150 Aug 15 01:26	0° m)		retrograde	6157 Mar 11 07:16	1 ==42 00 30°R MD	
	0130 Aug 13 01.20	V III		opposition	6157 Mar 19 08:03	29° mp 39'09	0°53'54
conjunction	6150 Aug 18 19:31	0° m 13′29	0°38'22	min. Earth dist.	6157 Mar 19 20:26	-	17.65354 AU
minimum elong	6150 Aug 18 19:31	0° Mp 13'29	0°38'21	direct	6157 Jun 02 03:57	27° mp 35'17	17.03334 AC
max. Earth dist.	6150 Aug 18 13:54		20.04503 AU	uncet	6157 Aug 18 14:18	ე∘ ი	
morning rise	6150 Sep 04 11:37	1° m) 12'50	20.0 13 03 110	evening set	6157 Sep 03 22:03	o — 0° Ω 56'27	
retrograde	6150 Dec 07 18:12	4° Mp 30'20		evening set	0137 Sep 03 22.03	0 = 3027	
opposition	6151 Feb 21 02:17	2° m) 27'58	0°43'54	conjunction	6157 Sep 20 15:09	1° £ 57'24	0°48'42
min. Earth dist.	6151 Feb 21 07:02	-	18.01364 AU	minimum elong	6157 Sep 20 15:09	1° ⊆ 57'24	
direct	6151 May 06 17:57	0° Mp 26'10	10.01301710	max. Earth dist.	6157 Sep 19 23:56		19.62615 AU
evening set	6151 Aug 07 01:19	3° Mp 40'21		morning rise	6157 Oct 07 07:41	2° £ 58′20	19.02010110
e venning see	ordering of order	3 14 10 21		retrograde	6158 Jan 08 21:25	6° £ 19'47	
conjunction	6151 Aug 23 16:26	4° m 39'46	0°40'37	opposition	6158 Mar 24 03:10	4° £ 16'44	0°54'27
minimum elong	6151 Aug 23 16:26	4° m) 39'45	0°40'36	min. Earth dist.	6158 Mar 24 16:51		17.59997 AU
max. Earth dist.	6151 Aug 23 09:09	4° mp 38'40	19.98250 AU	direct	6158 Jun 07 00:07	2° ₽ 12'31	
morning rise	6151 Sep 09 08:47	5° m/39'23		evening set	6158 Sep 09 00:08	5° £ 34'43	
retrograde	6151 Dec 12 12:25	8° m 57'33		Ü	1		
opposition	6152 Feb 25 17:32	6° m 55'08	0°46'17	conjunction	6158 Sep 25 17:10	6° £ 35'52	0°49'01
min. Earth dist.	6152 Feb 26 00:34	6° m 54'23	17.95149 AU	minimum elong	6158 Sep 25 17:10	6° £ 35'52	0°49'02
direct	6152 May 10 08:21	4° m 53'02		max. Earth dist.	6158 Sep 24 23:59	6° £ 33'14	19.57433 AU
evening set	6152 Aug 10 22:41	8° Mp 08'26		morning rise	6158 Oct 12 09:41	7° £ 36'58	
				retrograde	6159 Jan 13 19:38	10° £ 58'49	
conjunction	6152 Aug 27 14:16	9° m 08'08	0°42'37	opposition	6159 Mar 28 22:52	8° ≏ 55'38	0°54'38
minimum elong	6152 Aug 27 14:16	9° m 08'08	0°42'37	min. Earth dist.	6159 Mar 29 13:01	8° ≙ 54'05	17.55006 AU
max. Earth dist.	6152 Aug 27 05:26	9° ™ 06'48	19.92064 AU	direct	6159 Jun 11 21:32	6° £ 51′04	
morning rise	6152 Sep 13 06:53	10° Mp 08'00		evening set	6159 Sep 14 02:41	10° ≏ 14'16	
retrograde	6152 Dec 16 09:32	13° Mp 26'50					
opposition	6153 Mar 01 09:30	11° m 24'20	0°48'24	conjunction	6159 Sep 30 19:50	11° ≏ 15'37	0°49'01
min. Earth dist.	6153 Mar 01 16:57	11° Mp 23'32	17.88990 AU	minimum elong	6159 Sep 30 19:50	11° ≏ 15'37	0°49'01
direct	6153 May 15 02:05	9° m 21'55		max. Earth dist.	6159 Sep 30 03:01		19.52630 AU
evening set	6153 Aug 15 20:50	12° Mp 38'31		morning rise	6159 Oct 17 11:52	12° ≏ 16'51	
				retrograde	6160 Jan 18 18:42	15° ≏ 39'01	
conjunction	6153 Sep 01 12:52	13° m 38'30	0°44'24	opposition	6160 Apr 01 19:10	13° ≙ 35'46	
minimum elong	6153 Sep 01 12:51	13° m 38'30	0°44'24	min. Earth dist.	6160 Apr 02 09:59		17.50422 AU
max. Earth dist.	6153 Sep 01 02:39		19.85917 AU	direct	6160 Jun 15 19:54	11° ≏ 30'55	
morning rise	6153 Sep 18 05:33	14° Mp 38'36		evening set	6160 Sep 18 05:52	14° £ 55'03	
retrograde	6153 Dec 21 05:17	17° m 58'04	0050115		(1(0,0) + 04,00,44	1.50 0 5.6122	0040140
opposition	6154 Mar 06 02:18	15° Mp 55'28	0°50'15	conjunction	6160 Oct 04 22:44	15° £ 56'33	0°48'40
min. Earth dist.	6154 Mar 06 11:53		17.82879 AU	minimum elong	6160 Oct 04 22:45	15° £ 56'33	0°48'41
direct	6154 May 19 18:31	13° Mp 52'43		max. Earth dist.	6160 Oct 04 04:13		19.48287 AU
evening set	6154 Aug 20 20:02	17° m) 10'30		morning rise	6160 Oct 21 14:33 6161 Jan 22 16:47	16° ♀ 57'55 20° ♀ 20'24	
conjunction	6154 Sep 06 12:24	18° m) 10'44	0°45'54	retrograde opposition	6161 Jan 22 16:47 6161 Apr 06 16:03	20° 22 20°24 18° 2 17'04	0.53.55
minimum elong	6154 Sep 06 12:24 6154 Sep 06 12:24	18° Mp 10'44	0°45'54 0°45'53	min. Earth dist.	6161 Apr 07 07:17		17.46341 AU
max. Earth dist.	6154 Sep 06 00:15		19.79853 AU	direct	6161 Jun 20 18:53	16° £ 1324	11.TUJ#1 AU
morning rise	6154 Sep 23 05:18	18 mg 08 34 19° mg 11'05	17.17033 AU	evening set	6161 Sep 23 09:14	10 ≗ 11 30	
retrograde	6154 Dec 26 03:15	22° Mp 31'06		max. Earth dist.	6161 Sep 23 09.14 6161 Oct 09 08:23		19.44459 AU
opposition	6155 Mar 10 19:30	20° M) 28'24	0°51'47	max. Darm dist.	0101 001 07 00.23	20 - 33 33	.).1 HJ/ AU
min. Earth dist.	6155 Mar 11 05:38		17.76867 AU	conjunction	6161 Oct 10 02:07	20° ≏ 38'38	0°48'01
direct	6155 May 24 13:33	18° Mp 25'17	-,.,000,710	minimum elong	6161 Oct 10 02:07	20° ⊆ 38'38	0°48'02
evening set	6155 Aug 25 20:03	21° Mp 44'14		morning rise	6161 Oct 26 17:21	20° ⊆ 40'05	3 .3 02
	20 20.00				2.2.2 300 23 17.21	10 03	

retrograde	6162 Jan 27 16:34	25° £ 02'49		direct	6168 Jul 24 05:30	19° ™ 27'03	
opposition	6162 Apr 11 13:32	22° ₽ 59'30	0°53'01	evening set	6168 Oct 27 18:36	22°M56'12	
min. Earth dist.	6162 Apr 12 04:49		17.42777 AU				
direct	6162 Jun 25 19:04	20° £ 54'10		conjunction	6168 Nov 13 07:56	23°M58'06	0°34'41
evening set	6162 Sep 28 13:23	24° £ 20′03		minimum elong	6168 Nov 13 07:57	23°M58'06	0°34'44
max. Earth dist.	6162 Oct 14 10:40		19.41176 AU	max. Earth dist.	6168 Nov 12 12:47	23°M55'05	19.32269 AU
				morning rise	6168 Nov 29 18:16	24°M59'36	
conjunction	6162 Oct 15 05:51	25° £ 21'48	0°47'01	retrograde	6169 Mar 01 18:51	28°M22'37	
minimum elong	6162 Oct 15 05:51	25° £ 21'48	0°47'02	opposition	6169 May 14 09:19	26° ™ 19'59	0°37'04
morning rise	6162 Oct 31 20:42	26° £ 23′20		min. Earth dist.	6169 May 15 02:11	26°M18'08	17.32321 AU
retrograde	6163 Feb 01 15:23	29° ≏ 46'17		direct	6169 Jul 29 06:47	24°M₁14'02	
opposition	6163 Apr 16 11:28	27° £ 43'01	0°51'45	evening set	6169 Nov 01 23:19	27° M 43'21	
min. Earth dist.	6163 Apr 17 03:22	27° ≏ 41'17	17.39779 AU	Ü			
direct	6163 Jun 30 19:08	25° £ 37'31		conjunction	6169 Nov 18 11:52	28°M45'11	0°31'41
evening set	6163 Oct 03 17:44	29° £ 04'11		minimum elong	6169 Nov 18 11:52	28°M45'11	0°31'43
	6163 Oct 18 19:17	0°M		max. Earth dist.	6169 Nov 17 16:37		19.32433 AU
		•		morning rise	6169 Dec 04 21:26	29°M46'35	.,
conjunction	6163 Oct 20 10:01	0°M06'02	0°45'43		6169 Dec 08 13:29	0° ⊼ 7	
minimum elong	6163 Oct 20 10:01	0°M06'02	0°45'45	retrograde	6170 Mar 06 20:39	3° х 09′23	
max. Earth dist.	6163 Oct 19 15:39		19.38453 AU	opposition	6170 May 19 09:54	1°×706'50	0°33'35
morning rise	6163 Nov 06 00:10	1°ML07'37	17.50455710	min. Earth dist.	6170 May 20 01:31		17.32710 AU
retrograde	6164 Feb 06 16:20	4°M30'44		iiiii. Lartii dist.	6170 Jun 15 09:04	30°RM	17.32710 AC
•	6164 Apr 20 10:00	2°M27'34	0°50'07	direct		29°M00'52	
opposition min. Earth dist.				direct	6170 Aug 03 11:25	29 11600 32 0° √ 1	
	6164 Apr 21 01:35 6164 Jul 04 20:43		17.37319 AU		6170 Sep 20 07:41 6170 Nov 07 03:43	2° x ⁷ 30'13	
direct		0°M21'58		evening set	61/0 Nov 0/ 03:43	2° x '30'13	
evening set	6164 Oct 07 22:24	3°M49'19		:	(170 N 22, 15-22	20.721157	0°28'27
agniumation	6164 Opt 24 14:07	40 m 51114	0944106	conjunction	6170 Nov 23 15:32	3° ⋌ 31'57	0°28'29
conjunction	6164 Oct 24 14:07	4°M51'14	0°44'06	minimum elong	6170 Nov 23 15:32	3° ∡ ³31'57	
minimum elong	6164 Oct 24 14:07	4°M51'14	0°44'07	max. Earth dist.	6170 Nov 22 21:16	3° √ 29'05	19.33062 AU
max. Earth dist.	6164 Oct 23 18:45		19.36259 AU	morning rise	6170 Dec 10 00:01	4° √ 33'14	
morning rise	6164 Nov 10 03:42	5°M52'52		retrograde	6171 Mar 11 19:15	7° √ 55'44	0000150
retrograde	6165 Feb 10 16:00	9°M16'07		opposition	6171 May 24 10:39	5° ₹ 53'17	
opposition	6165 Apr 25 09:08	7°M13'02	0°48'09	min. Earth dist.	6171 May 25 02:52		17.33589 AU
min. Earth dist.	6165 Apr 26 01:34		17.35389 AU	direct	6171 Aug 08 13:07	3° ∡ ′47′18	
direct	6165 Jul 09 21:24	5°M07'20		evening set	6171 Nov 12 07:42	7° ∡ 16'35	
evening set	6165 Oct 13 03:19	8°M35'19			(151.)	00 310111	0005100
				conjunction	6171 Nov 28 18:32	8° ≯ 18'11	0°25'02
conjunction	6165 Oct 29 18:38	9°M37'16	0°42'10	minimum elong	6171 Nov 28 18:32	8° √ 18'11	0°25'05
minimum elong	6165 Oct 29 18:38	9°M37'16		max. Earth dist.	6171 Nov 28 00:11		19.34208 AU
max. Earth dist.	6165 Oct 28 23:46	9° ∏ 34'19	19.34574 AU	morning rise	6171 Dec 15 02:13	9° ∡ 19'19	
morning rise				•			
retrograde	6165 Nov 15 07:29	10°M38'54		retrograde	6172 Mar 15 19:55	12° х 41′30	
	6166 Feb 15 17:42	10°M38'54 14°M02'11		opposition	6172 Mar 15 19:55 6172 May 28 11:22	12° х 41′30 10° х 39′06	0°25'58
opposition	6166 Feb 15 17:42 6166 Apr 30 08:30		0°45'51	Č	6172 Mar 15 19:55 6172 May 28 11:22 6172 May 29 02:01	10° х 39'06 10° х 37'31	0°25'58 17.34995 AU
opposition min. Earth dist.	6166 Feb 15 17:42	14°M02'11 11°M59'14	0°45'51 17.33934 AU	opposition	6172 Mar 15 19:55 6172 May 28 11:22	10° ∡ ³39′06	
	6166 Feb 15 17:42 6166 Apr 30 08:30 6166 May 01 00:24 6166 Jul 15 00:11	14°M02'11 11°M59'14 11°M57'30 9°M53'28		opposition min. Earth dist.	6172 Mar 15 19:55 6172 May 28 11:22 6172 May 29 02:01	10° х 39'06 10° х 37'31	
min. Earth dist.	6166 Feb 15 17:42 6166 Apr 30 08:30 6166 May 01 00:24	14°M02'11 11°M59'14 11°M57'30		opposition min. Earth dist. direct	6172 Mar 15 19:55 6172 May 28 11:22 6172 May 29 02:01 6172 Aug 12 18:11 6172 Nov 16 10:53	10° ₹39'06 10° ₹37'31 8° ₹33'09 12° ₹02'14	
min. Earth dist. direct evening set	6166 Feb 15 17:42 6166 Apr 30 08:30 6166 May 01 00:24 6166 Jul 15 00:11 6166 Oct 18 08:33	14°M02'11 11°M59'14 11°M57'30 9°M53'28 13°M21'57	17.33934 AU	opposition min. Earth dist. direct evening set conjunction	6172 Mar 15 19:55 6172 May 28 11:22 6172 May 29 02:01 6172 Aug 12 18:11 6172 Nov 16 10:53 6172 Dec 02 20:57	10° ₹39'06 10° ₹37'31 8° ₹33'09 12° ₹02'14 13° ₹03'40	17.34995 AU 0°21'27
min. Earth dist. direct evening set conjunction	6166 Feb 15 17:42 6166 Apr 30 08:30 6166 May 01 00:24 6166 Jul 15 00:11	14°M02'11 11°M59'14 11°M57'30 9°M53'28 13°M21'57	17.33934 AU 0°39'57	opposition min. Earth dist. direct evening set conjunction minimum elong	6172 Mar 15 19:55 6172 May 28 11:22 6172 May 29 02:01 6172 Aug 12 18:11 6172 Nov 16 10:53	10° ₹39'06 10° ₹37'31 8° ₹33'09 12° ₹02'14 13° ₹03'40 13° ₹03'41	17.34995 AU 0°21'27 0°21'29
min. Earth dist. direct evening set	6166 Feb 15 17:42 6166 Apr 30 08:30 6166 May 01 00:24 6166 Jul 15 00:11 6166 Oct 18 08:33	14°M02'11 11°M59'14 11°M57'30 9°M53'28 13°M21'57	17.33934 AU	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	6172 Mar 15 19:55 6172 May 28 11:22 6172 May 29 02:01 6172 Aug 12 18:11 6172 Nov 16 10:53 6172 Dec 02 20:57	10° ₹39'06 10° ₹37'31 8° ₹33'09 12° ₹02'14 13° ₹03'40 13° ₹03'41	17.34995 AU 0°21'27
min. Earth dist. direct evening set conjunction	6166 Feb 15 17:42 6166 Apr 30 08:30 6166 May 01 00:24 6166 Jul 15 00:11 6166 Oct 18 08:33 6166 Nov 03 23:14 6166 Nov 03 23:14 6166 Nov 03 03:43	14°M02'11 11°M59'14 11°M57'30 9°M53'28 13°M21'57 14°M23'54 14°M23'55 14°M23'55	17.33934 AU 0°39'57	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	6172 Mar 15 19:55 6172 May 28 11:22 6172 May 29 02:01 6172 Aug 12 18:11 6172 Nov 16 10:53 6172 Dec 02 20:57 6172 Dec 02 02:57 6172 Dec 02 04:31 6172 Dec 19 03:31	10° 🗷 39'06 10° 🗷 37'31 8° 🗷 33'09 12° 🗷 02'14 13° 🗷 03'40 13° 🗷 01'06 14° 🗷 04'38	17.34995 AU 0°21'27 0°21'29
min. Earth dist. direct evening set conjunction minimum elong	6166 Feb 15 17:42 6166 Apr 30 08:30 6166 May 01 00:24 6166 Jul 15 00:11 6166 Oct 18 08:33 6166 Nov 03 23:14 6166 Nov 03 23:14	14°M02'11 11°M59'14 11°M57'30 9°M53'28 13°M21'57 14°M23'54 14°M23'55 14°M20'51 15°M	17.33934 AU 0°39'57 0°39'59	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	6172 Mar 15 19:55 6172 May 28 11:22 6172 May 29 02:01 6172 Aug 12 18:11 6172 Nov 16 10:53 6172 Dec 02 20:57 6172 Dec 02 02:57 6172 Dec 02 04:31	10° \$\tilde{X}\$39'06 10° \$\tilde{X}\$37'31 8° \$\tilde{X}\$33'09 12° \$\tilde{X}\$02'14 13° \$\tilde{X}\$03'40 13° \$\tilde{X}\$03'41 13° \$\tilde{X}\$01'06	17.34995 AU 0°21'27 0°21'29
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min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6166 Feb 15 17:42 6166 Apr 30 08:30 6166 May 01 00:24 6166 Jul 15 00:11 6166 Oct 18 08:33 6166 Nov 03 23:14 6166 Nov 03 03:43 6166 Nov 13 13:57 6166 Nov 20 11:18 6167 Feb 20 17:33 6167 May 05 08:33 6167 May 05 08:33 6167 Jun 22 11:36 6167 Jul 20 01:27 6167 Aug 16 09:09 6167 Oct 23 13:37	14°M.02'11 11°M.59'14 11°M.57'30 9°M.53'28 13°M.21'57 14°M.23'54 14°M.23'55 14°M.20'51 15°M. 15°M.25'32 18°M.48'48 16°M.45'57 16°M.44'06 15°RM. 14°M.40'06 15°M. 18°M.08'59	17.33934 AU 0°39'57 0°39'59 19.33348 AU 0°43'13 17.32944 AU	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.	6172 Mar 15 19:55 6172 May 28 11:22 6172 May 29 02:01 6172 Aug 12 18:11 6172 Nov 16 10:53 6172 Dec 02 20:57 6172 Dec 02 20:57 6172 Dec 02 04:31 6172 Dec 19 03:31 6173 Mar 20 17:29 6173 Jun 02 12:09 6173 Jun 03 02:51 6173 Aug 17 20:24 6173 Dec 07 22:42 6173 Dec 07 22:42 6173 Dec 07 06:18	10° \$\times^3 39'06 10° \$\times^3 37'31 8° \$\times^3 33'09 12° \$\times^0 20'14 13° \$\times^0 3'40 13° \$\times^0 3'41 13° \$\times^0 1'06 14° \$\times^0 4'38 17° \$\times^2 26'25 15° \$\times^2 24'08 15° \$\times^2 24'08 15° \$\times^2 47'01 17° \$\times^4 48'16 17° \$\times^4 48'16 17° \$\times^4 45'42	17.34995 AU 0°21'27 0°21'29 19.35884 AU 0°21'53 17.36945 AU 0°17'44 0°17'46
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6166 Feb 15 17:42 6166 Apr 30 08:30 6166 May 01 00:24 6166 Jul 15 00:11 6166 Oct 18 08:33 6166 Nov 03 23:14 6166 Nov 03 03:43 6166 Nov 13 13:57 6166 Nov 20 11:18 6167 Feb 20 17:33 6167 May 05 08:33 6167 May 05 08:33 6167 Jun 22 11:36 6167 Jul 20 01:27 6167 Aug 16 09:09 6167 Oct 23 13:37	14°M.02'11 11°M.59'14 11°M.57'30 9°M.53'28 13°M.21'57 14°M.23'54 14°M.23'55 14°M.20'51 15°M. 15°M.25'32 18°M.48'48 16°M.45'57 16°M.44'06 15°RM. 14°M.40'06 15°M. 18°M.08'59	17.33934 AU 0°39'57 0°39'59 19.33348 AU 0°43'13 17.32944 AU	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. morning rise	6172 Mar 15 19:55 6172 May 28 11:22 6172 May 29 02:01 6172 Aug 12 18:11 6172 Nov 16 10:53 6172 Dec 02 20:57 6172 Dec 02 20:57 6172 Dec 02 04:31 6172 Dec 19 03:31 6173 Mar 20 17:29 6173 Jun 02 12:09 6173 Jun 03 02:51 6173 Aug 17 20:24 6173 Dec 07 22:42 6173 Dec 07 22:42 6173 Dec 07 06:18 6173 Dec 24 04:27	10° \$\times^3 39'06 10° \$\times^3 37'31 8° \$\times^3 33'09 12° \$\times^0 20'14 13° \$\times^0 3'40 13° \$\times^0 3'41 13° \$\times^0 1'06 14° \$\times^0 4'38 17° \$\times^2 26'25 15° \$\times^2 24'08 15° \$\times^2 22'32 13° \$\times^1 18'14 16° \$\times^4 47'01 17° \$\times^4 48'16 17° \$\times^4 48'16 17° \$\times^4 45'42 18° \$\times^4 49'03	17.34995 AU 0°21'27 0°21'29 19.35884 AU 0°21'53 17.36945 AU 0°17'44 0°17'46 19.38128 AU
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.	6166 Feb 15 17:42 6166 Apr 30 08:30 6166 May 01 00:24 6166 Jul 15 00:11 6166 Oct 18 08:33 6166 Nov 03 23:14 6166 Nov 03 03:43 6166 Nov 13 13:57 6166 Nov 20 11:18 6167 Feb 20 17:33 6167 May 05 08:33 6167 Jun 22 11:36 6167 Jun 22 11:36 6167 Jul 20 01:27 6167 Aug 16 09:09 6167 Oct 23 13:37 6167 Nov 08 08:18	14°M02'11 11°M59'14 11°M57'30 9°M53'28 13°M21'57 14°M23'54 14°M23'55 14°M20'51 15°M 15°M25'32 18°M48'48 16°M45'57 16°M44'06 15°RM 14°M40'06 15°M 18°M08'59 19°M07'54	17.33934 AU 0°39'57 0°39'59 19.33348 AU 0°43'13 17.32944 AU	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	6172 Mar 15 19:55 6172 May 28 11:22 6172 May 29 02:01 6172 Aug 12 18:11 6172 Nov 16 10:53 6172 Dec 02 20:57 6172 Dec 02 20:57 6172 Dec 02 04:31 6172 Dec 19 03:31 6173 Mar 20 17:29 6173 Jun 02 12:09 6173 Jun 03 02:51 6173 Aug 17 20:24 6173 Nov 21 13:45 6173 Dec 07 22:42 6173 Dec 07 06:18 6173 Dec 24 04:27 6174 Mar 25 16:53	10° \$\times^3 39'06 10° \$\times^3 37'31 8° \$\times^3 33'09 12° \$\times^0 20'14 13° \$\times^0 03'40 13° \$\times^0 03'41 13° \$\times^0 01'06 14° \$\times^0 24'08 15° \$\times^2 45'42 18° \$\times^4 48'16 17° \$\times^4 48'16 17° \$\times^4 48'16 22° \$\times^1 02'3 20° \$\times^0 08'12	17.34995 AU 0°21'27 0°21'29 19.35884 AU 0°21'53 17.36945 AU 0°17'44 0°17'46 19.38128 AU
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction	6166 Feb 15 17:42 6166 Apr 30 08:30 6166 May 01 00:24 6166 Jul 15 00:11 6166 Oct 18 08:33 6166 Nov 03 23:14 6166 Nov 03 03:43 6166 Nov 13 13:57 6166 Nov 20 11:18 6167 Feb 20 17:33 6167 May 05 08:33 6167 Jun 22 11:36 6167 Jul 20 01:27 6167 Aug 16 09:09 6167 Oct 23 13:37 6167 Nov 08 08:18	14°M.02'11 11°M.57'30 9°M.53'28 13°M.21'57 14°M.23'54 14°M.23'55 14°M.20'51 15°M. 15°M.25'32 18°M.48'48 16°M.45'57 16°M.44'06 15°M. 14°M.40'06 15°M. 18°M.08'59 19°M.07'54	17.33934 AU 0°39'57 0°39'59 19.33348 AU 0°43'13 17.32944 AU 19.32586 AU 0°37'27	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. morning rise retrograde opposition	6172 Mar 15 19:55 6172 May 28 11:22 6172 May 29 02:01 6172 Aug 12 18:11 6172 Nov 16 10:53 6172 Dec 02 20:57 6172 Dec 02 20:57 6172 Dec 02 04:31 6172 Dec 19 03:31 6173 Mar 20 17:29 6173 Jun 02 12:09 6173 Jun 03 02:51 6173 Aug 17 20:24 6173 Nov 21 13:45 6173 Dec 07 22:42 6173 Dec 07 06:18 6173 Dec 24 04:27 6174 Mar 25 16:53 6174 Jun 07 12:35	10° \$\times^3 39'06 10° \$\times^3 37'31 8° \$\times^3 33'09 12° \$\times^0 20'14 13° \$\times^0 03'40 13° \$\times^0 03'41 13° \$\times^0 01'06 14° \$\times^0 24'08 15° \$\times^2 45'42 18° \$\times^4 48'16 17° \$\times^4 48'16 17° \$\times^4 48'16 22° \$\times^1 02'3 20° \$\times^0 08'12	17.34995 AU 0°21'27 0°21'29 19.35884 AU 0°21'53 17.36945 AU 0°17'44 0°17'46 19.38128 AU
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong	6166 Feb 15 17:42 6166 Apr 30 08:30 6166 May 01 00:24 6166 Jul 15 00:11 6166 Oct 18 08:33 6166 Nov 03 23:14 6166 Nov 03 03:43 6166 Nov 13 13:57 6166 Nov 20 11:18 6167 Feb 20 17:33 6167 May 05 08:33 6167 May 06 01:29 6167 Jul 20 01:27 6167 Aug 16 09:09 6167 Oct 23 13:37 6167 Nov 08 08:18 6167 Nov 09 03:39 6167 Nov 09 03:39	14°M.02'11 11°M.57'30 9°M.53'28 13°M.21'57 14°M.23'54 14°M.23'55 14°M.20'51 15°M.25'32 18°M.48'48 16°M.45'57 16°M.44'06 15°R. 14°M.40'06 15°M. 18°M.08'59 19°M.10'56 19°M.10'56	17.33934 AU 0°39'57 0°39'59 19.33348 AU 0°43'13 17.32944 AU 19.32586 AU 0°37'27	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. morning rise retrograde opposition minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	6172 Mar 15 19:55 6172 May 28 11:22 6172 May 29 02:01 6172 Aug 12 18:11 6172 Nov 16 10:53 6172 Dec 02 20:57 6172 Dec 02 20:57 6172 Dec 02 04:31 6172 Dec 19 03:31 6173 Mar 20 17:29 6173 Jun 02 12:09 6173 Jun 03 02:51 6173 Aug 17 20:24 6173 Nov 21 13:45 6173 Dec 07 22:42 6173 Dec 07 06:18 6173 Dec 24 04:27 6174 Mar 25 16:53 6174 Jun 07 12:35 6174 Jun 08 01:36	10° \$\times^3 39'06 10° \$\times^3 37'31 8° \$\times^3 33'09 12° \$\times^0 20'14 13° \$\times^0 03'40 13° \$\times^0 03'41 13° \$\times^0 01'06 14° \$\times^0 04'38 17° \$\times^2 24'08 15° \$\times^2 24'08 15° \$\times^2 24'32 13° \$\times^1 18'14 16° \$\times^4 47'01 17° \$\times^4 48'16 17° \$\times^4 48'16 17° \$\times^4 49'03 22° \$\times^1 02'3 20° \$\times^0 08'12 20° \$\times^0 06'48	17.34995 AU 0°21'27 0°21'29 19.35884 AU 0°21'53 17.36945 AU 0°17'44 0°17'46 19.38128 AU
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise retrograde	6166 Feb 15 17:42 6166 Apr 30 08:30 6166 May 01 00:24 6166 Jul 15 00:11 6166 Oct 18 08:33 6166 Nov 03 23:14 6166 Nov 03 03:43 6166 Nov 13 13:57 6166 Nov 20 11:18 6167 Feb 20 17:33 6167 May 05 08:33 6167 May 06 01:29 6167 Jul 20 01:27 6167 Aug 16 09:09 6167 Oct 23 13:37 6167 Nov 08 08:18 6167 Nov 09 03:39 6167 Nov 09 03:39 6167 Nov 25 14:54 6168 Feb 25 19:34	14°M.02'11 11°M.59'14 11°M.57'30 9°M.53'28 13°M.21'57 14°M.23'54 14°M.23'55 14°M.20'51 15°M.25'32 18°M.48'48 16°M.45'57 16°M.44'06 15°RM. 14°M.40'06 15°M. 18°M.08'59 19°M.07'54	17.33934 AU 0°39'57 0°39'59 19.33348 AU 0°43'13 17.32944 AU 19.32586 AU 0°37'27	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. morning rise retrograde opposition minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	6172 Mar 15 19:55 6172 May 28 11:22 6172 May 29 02:01 6172 Aug 12 18:11 6172 Nov 16 10:53 6172 Dec 02 20:57 6172 Dec 02 20:57 6172 Dec 02 04:31 6172 Dec 19 03:31 6173 Mar 20 17:29 6173 Jun 02 12:09 6173 Jun 03 02:51 6173 Aug 17 20:24 6173 Nov 21 13:45 6173 Dec 07 22:42 6173 Dec 07 06:18 6173 Dec 24 04:27 6174 Mar 25 16:53 6174 Jun 08 01:36 6174 Aug 23 01:26	10° \$\times^3 39'06 10° \$\times^3 37'31 8° \$\times^3 33'09 12° \$\times^0 20'14 13° \$\times^0 30'40 13° \$\times^0 30'41 13° \$\times^0 40'38 17° \$\times^2 24'08 15° \$\times^2 22'32 13° \$\times^1 18'14 16° \$\times^4 47'01 17° \$\times^4 48'16 17° \$\times^4 48'16 17° \$\times^4 48'16 17° \$\times^4 48'16 22° \$\times^0 49'03 22° \$\times^1 02'23 20° \$\times^0 06'48 18° \$\times^0 02'24	17.34995 AU 0°21'27 0°21'29 19.35884 AU 0°21'53 17.36945 AU 0°17'44 0°17'46 19.38128 AU
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise	6166 Feb 15 17:42 6166 Apr 30 08:30 6166 May 01 00:24 6166 Jul 15 00:11 6166 Oct 18 08:33 6166 Nov 03 23:14 6166 Nov 03 03:43 6166 Nov 13 13:57 6166 Nov 20 11:18 6167 Feb 20 17:33 6167 May 05 08:33 6167 May 06 01:29 6167 Jul 20 01:27 6167 Aug 16 09:09 6167 Oct 23 13:37 6167 Nov 08 08:18 6167 Nov 09 03:39 6167 Nov 09 03:39 6167 Nov 25 14:54	14°M.02'11 11°M.59'14 11°M.59'14 11°M.53'28 13°M.21'57 14°M.23'54 14°M.23'55 14°M.20'51 15°M. 15°M.25'32 18°M.48'48 16°M.45'57 16°M.44'06 15°R. 14°M.40'06 15°M. 18°M.08'59 19°M.07'54 19°M.10'56 20°M.12'30 23°M.35'41 21°M.32'56	17.33934 AU 0°39'57 0°39'59 19.33348 AU 0°43'13 17.32944 AU 19.32586 AU 0°37'27 0°37'28	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. morning rise retrograde opposition minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	6172 Mar 15 19:55 6172 May 28 11:22 6172 May 29 02:01 6172 Aug 12 18:11 6172 Nov 16 10:53 6172 Dec 02 20:57 6172 Dec 02 20:57 6172 Dec 02 04:31 6172 Dec 19 03:31 6173 Mar 20 17:29 6173 Jun 02 12:09 6173 Jun 03 02:51 6173 Aug 17 20:24 6173 Nov 21 13:45 6173 Dec 07 22:42 6173 Dec 07 06:18 6173 Dec 24 04:27 6174 Mar 25 16:53 6174 Jun 08 01:36 6174 Aug 23 01:26	10° \$\times^3 39'06 10° \$\times^3 37'31 8° \$\times^3 33'09 12° \$\times^0 20'14 13° \$\times^0 30'40 13° \$\times^0 30'41 13° \$\times^0 40'38 17° \$\times^2 24'08 15° \$\times^2 22'32 13° \$\times^1 18'14 16° \$\times^4 47'01 17° \$\times^4 48'16 17° \$\times^4 48'16 17° \$\times^4 48'16 17° \$\times^4 48'16 22° \$\times^0 49'03 22° \$\times^1 02'23 20° \$\times^0 06'48 18° \$\times^0 02'24	17.34995 AU 0°21'27 0°21'29 19.35884 AU 0°21'53 17.36945 AU 0°17'44 0°17'46 19.38128 AU 0°17'40 17.39480 AU

minimum elong	6174 Dec 12 23:59	22° ∡ ³31'52	0°13'56	max. Earth dist.	6180 Jan 05 10:28	15° る 51'28	19.62968 AU
behind sun begin	6174 Dec 12 20:36	22° ∡ ³31′21		morning rise	6180 Jan 21 18:22	16° ප් 52'01	
behind sun end	6174 Dec 13 03:23	22° ₹ 32'23		retrograde	6180 Apr 22 00:25	20° ප 10'09	
max. Earth dist.	6174 Dec 12 09:59	22° х 29'41	19.40957 AU	opposition	6180 Jul 05 12:21	18° る 09'15	-0°08'41
morning rise	6174 Dec 29 04:33	23° ₹ 32'25		min. Earth dist.	6180 Jul 05 18:49	18° る 08'34	17.65691 AU
retrograde	6175 Mar 30 13:50	26° ₹ 53'17		direct	6180 Sep 20 10:42	16° පි 04'58	
opposition	6175 Jun 12 13:12	24° ₹ 51'16	0°13'21	evening set	6180 Dec 24 13:06	19° る 29'21	
min. Earth dist.	6175 Jun 13 01:38	24° ₹ 149′56	17.42598 AU				
direct	6175 Aug 28 03:59	22° ∡ ⁴45'38		conjunction	6181 Jan 09 15:04	20° る 28'49	-0°09'49
evening set	6175 Dec 01 17:17	26° х 13′34		minimum elong	6181 Jan 09 15:04	20° る 28'49	0°09'47
max. Earth dist.	6175 Dec 17 10:31	27° ≯ 12'15	19.44379 AU	behind sun begin	6181 Jan 09 09:38	20°る28'00	
				behind sun end	6181 Jan 09 20:30	20° る 29'39	
conjunction	6175 Dec 18 00:13	27° ҂ 14′23	0°10'01	max. Earth dist.	6181 Jan 09 08:57	20° る 27'53	19.68490 AU
minimum elong	6175 Dec 18 00:13	27° ҂ 14′23	0°10'03	morning rise	6181 Jan 25 13:58	21° る 27'51	
behind sun begin	6175 Dec 17 18:51	27° х 13′34		retrograde	6181 Apr 26 21:02	24° る 45'20	
behind sun end	6175 Dec 18 05:36	27° ₹ 15'12		opposition	6181 Jul 10 11:13	22° る 44'39	
morning rise	6176 Jan 03 03:57	28° ≯ 14'43		min. Earth dist.	6181 Jul 10 16:09		17.71313 AU
	6176 Feb 03 10:34	0°ಕ		direct	6181 Sep 25 12:01	20° る 40'41	
retrograde	6176 Apr 03 12:10	1° る 35'06		evening set	6181 Dec 29 09:54	24° る 04'08	
	6176 Jun 06 02:44	30°R. ✓				_	
opposition	6176 Jun 16 13:31	29° ∡ 33'16		conjunction	6182 Jan 14 10:46	25° る 03'17	
min. Earth dist.	6176 Jun 17 00:14		17.46307 AU	minimum elong	6182 Jan 14 10:46	25° る 03'17	0°13'35
direct	6176 Sep 01 07:04	27° ₹ 27'50		behind sun begin	6182 Jan 14 07:05	25° る 02'44	
	6176 Nov 20 03:38	0° る		behind sun end	6182 Jan 14 14:28	25° පි 03'51	
evening set	6176 Dec 05 17:55	0° る 55'14		max. Earth dist.	6182 Jan 14 05:19		19.74209 AU
		_		morning rise	6182 Jan 30 08:50	26° පි 02'02	
conjunction	6176 Dec 22 00:01	1° ろ 55'49	0°06'05	retrograde	6182 May 01 15:23	29° る 18'52	
minimum elong	6176 Dec 22 00:01	1° る 55'49	0°06'08	opposition	6182 Jul 15 09:40	27° る 18'21	
behind sun begin	6176 Dec 21 17:42	1° る 54'51		min. Earth dist.	6182 Jul 15 14:05		17.77128 AU
behind sun end	6176 Dec 22 06:21	1° る 56'46		direct	6182 Sep 30 10:41	25° る 14'41	
max. Earth dist.	6176 Dec 21 12:50		19.48363 AU	evening set	6183 Jan 03 05:40	28° る 37'10	
morning rise	6177 Jan 07 02:37	2° る 55'54				•••	
retrograde	6177 Apr 08 09:27	6°₹15'45		conjunction	6183 Jan 19 05:39	29°₹36'00	
opposition	6177 Jun 21 13:32	4°る14'10	0°04'32	minimum elong	6183 Jan 19 05:39	29° る 36'00	
min. Earth dist.	6177 Jun 21 23:21		17.50537 AU	max. Earth dist.	6183 Jan 19 01:45		19.80103 AU
direct	6177 Sep 06 08:59	2°る08'59			6183 Jan 25 17:07	0° ≈	
evening set	6177 Dec 10 18:01	5°₹35'45		morning rise	6183 Feb 04 02:51	0°≈34'26	
	(155) 0(00 55	60 -7 0 (10 4	0000106	retrograde	6183 May 06 10:22	3°≈50'37	0001110
conjunction	6177 Dec 26 22:55	6° る 36'04		opposition	6183 Jul 20 07:38	1°≈50'16	
minimum elong	6177 Dec 26 22:57	6° る 36'04	0°02'08	min. Earth dist.	6183 Jul 20 10:08		17.83078 AU
behind sun begin	6177 Dec 26 16:17	6° る 35'03		1.	6183 Sep 12 15:35	30°Rる	
behind sun end	6177 Dec 27 05:36	6° る 37'05	10.53940 ATT	direct	6183 Oct 05 11:19	29° る 46'55	
max. Earth dist. morning rise	6177 Dec 26 12:05	6°03423 7° 3 35'56	19.52840 AU	avanina aat	6183 Oct 27 23:11 6184 Jan 08 00:23	0° ≈ 3° ≈ 08'18	
retrograde	6178 Jan 12 00:43 6178 Apr 13 06:52	7 33336 10° る 55'14		evening set	0184 Jan 08 00.23	3 20010	
opposition	6178 Jun 26 13:24	8°る53'52	0000106	conjunction	6184 Jan 23 23:23	4°≈06'50	0°20'52
min. Earth dist.	6178 Jun 26 21:59		17.55234 AU	minimum elong	6184 Jan 23 23:23	4°≈06'50	
desc. node	6178 Jul 04 15:26	8° ප 33'16	17.33234 AU	max. Earth dist.	6184 Jan 23 20:35		19.86111 AU
direct	6178 Sep 11 09:40	6°₹48'58		morning rise	6184 Feb 08 19:51	5°≈04'58	17.00111 AC
evening set	6178 Dec 15 17:10	10° ට 15'02		retrograde	6184 May 10 03:12	8° ≈ 20'29	
evening see	0170 BCC 13 17.10	10 013 02		opposition	6184 Jul 24 05:07	6°≈20'16	-0°25'05
conjunction	6178 Dec 31 21:09	11° る 15'05	-0°02'00	min. Earth dist.	6184 Jul 24 07:14		17.89149 AU
minimum elong	6178 Dec 31 21:10	11°る15'05		direct	6184 Oct 09 08:41	4°≈17'12	17.07117110
behind sun begin	6178 Dec 31 14:32	11°る13°03	0 0127	evening set	6185 Jan 11 18:09	7°≈37'30	
behind sun end	6179 Jan 01 03:49	11° ට 14°04		evening set	0105 3411 11 10.07	7 70 37 30	
max. Earth dist.	6178 Dec 31 12:37		19.57735 AU	conjunction	6185 Jan 27 16:19	8° ≈ 35'42	-0°24'18
morning rise	6179 Jan 16 21:51	12° る 14'40	17.07730110	minimum elong	6185 Jan 27 16:19	8°≈35'42	
retrograde	6179 Apr 18 04:21	15° る 33'23		max. Earth dist.	6185 Jan 27 14:51		19.92236 AU
opposition	6179 Jul 01 13:02	13° る 33'25	-0°04'19	morning rise	6185 Feb 12 12:06	9°≈33'33	2200110
min. Earth dist.	6179 Jul 01 20:22		17.60299 AU	retrograde	6185 May 14 20:29	12° ≈ 48'21	
direct	6179 Sep 16 11:23	11° る 27'41		opposition	6185 Jul 29 01:38	10° ≈ 48'15	-0°28'47
evening set	6179 Dec 20 15:40	14° る 52'57		min. Earth dist.	6185 Jul 29 01:38		17.95313 AU
J				direct	6185 Oct 14 07:50	8° ≈ 45'28	
conjunction	6180 Jan 05 18:31	15° る 52'42	-0°05'57	evening set	6186 Jan 16 10:55	12° ≈ 04'39	
minimum elong	6180 Jan 05 18:31	15° る 52'42		- C			
behind sun begin	6180 Jan 05 12:11	15° ⋜ 51'45		conjunction	6186 Feb 01 08:15	13° ≈ 02'32	-0°27'33
behind sun end	6180 Jan 06 00:52	15° る 53'40		minimum elong	6186 Feb 01 08:14	13° ≈ 02'32	
				-			

max. Earth dist.	6186 Feb 01 08:18	13° ≈ 02'32 1	19 98449 ATT	morning rise	6192 Mar 14 04:54	9° ¥ 59'31	
morning rise	6186 Feb 17 03:20	14°≈00'05	17.70447 110	retrograde	6192 Jun 13 22:41	13° ¥ 10′04	
morning risc	6186 Mar 06 13:21	15° ≈		opposition	6192 Aug 29 09:06	11° X 10'0 4	0040116
ratragrada	6186 May 19 11:41	17°≈14'13		min. Earth dist.	6192 Aug 28 23:59		18.41238 AU
retrograde	•		0022117		•	9° H 10'48	16.41236 AU
opposition	6186 Aug 02 21:51	15°≈14'13 -		direct	6192 Nov 14 13:17		
min. Earth dist.	6186 Aug 02 21:26	15°≈14'15 1	18.01591 AU	evening set	6193 Feb 15 05:44	12°) 22′07	
	6186 Aug 08 15:10	15°R≈			(100.) (00.00.00	1201/15150	004499
direct	6186 Oct 19 03:47	13°≈11'43		conjunction	6193 Mar 02 22:36	13° ¥ 17'58	
	6186 Dec 25 02:05	15° ≈		minimum elong	6193 Mar 02 22:36	13° ¥ 17'58	
evening set	6187 Jan 21 02:31	16° ≈ 29'44		max. Earth dist.	6193 Mar 03 08:27		20.44506 AU
				morning rise	6193 Mar 18 14:53	14°) 13′44	
conjunction	6187 Feb 05 23:01	17° ≈ 27'18 -	0°30'36	retrograde	6193 Jun 18 12:07	17°) €23'46	
minimum elong	6187 Feb 05 23:01	17° ≈ 27'18	0°30'35	opposition	6193 Sep 03 00:40	15°) 24′53	
max. Earth dist.	6187 Feb 06 00:26	17° ≈ 27'31 2	20.04790 AU	min. Earth dist.	6193 Sep 02 13:36	15° ¥ 26′00	18.47728 AU
morning rise	6187 Feb 21 17:33	18° ≈ 24'34		direct	6193 Nov 19 04:25	13° ¥ 25′05	
retrograde	6187 May 24 03:39	21° ≈ 38′02		evening set	6194 Feb 19 15:37	16°) 35′21	
opposition	6187 Aug 07 17:18	19° ≈ 38'08 -	0°35'34				
min. Earth dist.	6187 Aug 07 14:18	19° ≈ 38'27 1	18.07993 AU	conjunction	6194 Mar 07 08:11	17° ₩ 30'58	-0°45'50
direct	6187 Oct 24 00:58	17° ≈ 35'58		minimum elong	6194 Mar 07 08:11	17° ¥ 30′57	0°45'49
evening set	6188 Jan 25 17:13	20° ≈ 52'49		max. Earth dist.	6194 Mar 07 19:56	17°) 32′42	20.50887 AU
				morning rise	6194 Mar 23 00:11	18° ¥ 26′30	
conjunction	6188 Feb 10 13:00	21°≈50'05 -	0°33'28	retrograde	6194 Jun 22 23:02	21°) 36'03	
minimum elong	6188 Feb 10 12:59	21°≈50'05	0°33'27	opposition	6194 Sep 07 16:00	19°) 37′20	-0°51'28
max. Earth dist.	6188 Feb 10 16:25	21°≈50'36 2		min. Earth dist.	6194 Sep 07 04:56		18.53998 AU
morning rise	6188 Feb 26 06:55	22° ≈ 47'04		direct	6194 Nov 23 17:34	17°) € 37'54	
retrograde	6188 May 27 17:27	25°≈59'54		evening set	6195 Feb 24 00:49	20°) 47′08	
opposition	6188 Aug 11 12:07	24°≈00'07 -	0°38'37	evening sec	01)3100 21 00.1)	20 /(17 00	
min. Earth dist.	6188 Aug 11 08:35	24°≈00'29 1		conjunction	6195 Mar 11 16:57	21°) 42′30	-0°47'03
direct	6188 Oct 27 19:04	21°≈58'18	10.14334 AC	minimum elong	6195 Mar 11 16:57	21° X 42'30	
evening set	6189 Jan 29 06:58	25°≈14'01		max. Earth dist.	6195 Mar 12 04:46		20.57026 AU
evening set	0109 Jan 29 00.36	23 ≈1401			6195 Mar 27 09:00	21 X 44 13 22° X 37'51	20.37020 AU
aaniumatian	6190 Eab 14 02:02	2690010159	0026106	morning rise		25° H 46'57	
conjunction	6189 Feb 14 02:02	26°≈10'58 -		retrograde	6195 Jun 27 11:30		0052140
minimum elong	6189 Feb 14 02:02		0°36'05	opposition	6195 Sep 12 06:38	23°\(\frac{1}{4}\)48'20	
max. Earth dist.	6189 Feb 14 06:32	26°≈11'39 2	20.17856 AU	min. Earth dist.	6195 Sep 11 17:53		18.59995 AU
morning rise	6189 Mar 01 19:34	27°≈07'42		direct	6195 Nov 28 07:04	21°) (49'15	
_	6189 May 04 18:53	0° \		evening set	6196 Feb 28 09:24	24°) ₹ 57'28	
retrograde	6189 Jun 01 08:17	0° ∺ 19'54					
	6189 Jun 29 11:38	30° R ≈		conjunction	6196 Mar 15 01:25	25° ¥ 52'37	
opposition	6189 Aug 16 06:10	28° ≈ 20'17 -		minimum elong	6196 Mar 15 01:25	25° ¥ 52'37	0°48'00
min. Earth dist.	6189 Aug 16 00:02	28° ≈ 20'55 1	18.21182 AU	max. Earth dist.	6196 Mar 15 14:54		20.62848 AU
direct	6189 Nov 01 14:04	26°≈18'51		morning rise	6196 Mar 30 17:19	26°) (47′47	
evening set	6190 Feb 02 19:50	29° ≈ 33'26		retrograde	6196 Jun 30 21:42	29° ∺ 56′25	
	6190 Feb 10 06:29	0° ∀		opposition	6196 Sep 15 20:36	27°) 57′54	
				min. Earth dist.	6196 Sep 15 08:01	27° ¥ 59′10	18.65645 AU
conjunction	6190 Feb 18 14:18	0°) 30′06 -	0°38'31	direct	6196 Dec 01 19:40	25°) 59′08	
minimum elong	6190 Feb 18 14:18	0°) 30′06	0°38'31	evening set	6197 Mar 03 17:28	29° ∺ 06′21	
max. Earth dist.	6190 Feb 18 20:55	0° ∺ 31'06 2	20.24535 AU				
morning rise	6190 Mar 06 07:19	1° ∺ 26'34		conjunction	6197 Mar 19 09:13	0° Υ 01'18	-0°48'43
retrograde	6190 Jun 05 20:54	4° ¥ 38'12		minimum elong	6197 Mar 19 09:12	0° Υ 01'18	0°48'43
opposition	6190 Aug 20 23:47	2°) 38'46 -	0°43'58		6197 Mar 19 00:21	0° Υ	
min. Earth dist.	6190 Aug 20 17:14	2°) 39′26 1	18.27890 AU	max. Earth dist.	6197 Mar 19 22:19	0° Ƴ 03'14	20.68316 AU
direct	6190 Nov 06 06:06	0°) 37′44		morning rise	6197 Apr 04 01:18	0° Ƴ 56'19	
evening set	6191 Feb 07 07:56	3° ¥ 51'13		retrograde	6197 Jul 05 09:10	4° Ƴ 04'30	
•				opposition	6197 Sep 20 10:00	2° Y 06'01	-0°54'12
conjunction	6191 Feb 23 01:45	4° ¥ 47'36 -	0°40'43	min. Earth dist.	6197 Sep 19 20:04		18.70926 AU
minimum elong	6191 Feb 23 01:45	4°) €47'36		direct	6197 Dec 06 07:30	0° Ƴ 07'31	
max. Earth dist.	6191 Feb 23 09:10	4°) 48'42 2		evening set	6198 Mar 08 00:42	3°Υ13'45	
morning rise	6191 Mar 10 18:31	5°) 43'49					
retrograde	6191 Jun 10 11:07	8°) 54'54		conjunction	6198 Mar 23 16:27	4° Υ ′08'32	-0°49'10
opposition	6191 Aug 25 16:41	6° ∺ 55'39 -	0°46'15	minimum elong	6198 Mar 23 16:27	4°Υ08'32	
min. Earth dist.	6191 Aug 25 07:44	6°\(\frac{1}{3339}\) = 6°\(\frac{1}{3539}\) = 1		max. Earth dist.	6198 Mar 24 07:11		20.73395 AU
direct	6191 Nov 10 23:03	6 ₹3633 1 4°¥55'02	10.57004 AU	morning rise	6198 Apr 08 08:31	5° Υ 03'22	20.13393 AU
	6191 Nov 10 23:03 6192 Feb 11 19:05	4° ℋ 33°02 8° ℋ 07'25			6198 Apr 08 08:31 6198 Jul 09 18:02	8° Υ 11'09	
evening set	0174 FCU 11 19:03	о ДU/23		retrograde		6°Υ12'40	0054122
aaniumatian	6192 Feb 27 12:30	9°) €03'32 -	0.042140	opposition min. Earth dist.	6198 Sep 24 22:55 6198 Sep 24 08:59		-0°54'32 18.75816 AU
conjunction		7 75 113 3 / -	V 444U	min. Earn aist.	ULZO DED 74 UN DY	0 1 14 04	LA CIAID AL
					-		10.75010710
minimum elong max. Earth dist.	6192 Feb 27 12:30 6192 Feb 27 22:01	9° ₭ 03'32 9° ₭ 04'57 2	0°42'40	direct evening set	6198 Dec 10 19:46 6199 Mar 12 07:30	4° Υ 14'24 7° Υ 19'42	10.75010710

:	6199 Mar 27 23:05	8° Ƴ 14'17	0940121		6205 Aug 08 07:13	6° 8 24'47	
conjunction		8° Υ 1417		retrograde	e e	_	10.01100 ATT
minimum elong	6199 Mar 27 23:05			min. Earth dist.	6205 Oct 24 07:04	_	19.01190 AU
max. Earth dist.	6199 Mar 28 13:31		20.78113 AU	opposition	6205 Oct 25 01:18	4° 8 26'17	-0°49'22
morning rise	6199 Apr 12 15:31	9° Ƴ 09'00		direct	6206 Jan 09 10:06	2° 8 29'26	
retrograde	6199 Jul 14 04:42	12° Y 16′23		evening set	6206 Apr 09 18:30	5° 8 29'54	
opposition	6199 Sep 29 11:04	10° Ƴ 17'52	-0°54'36				
min. Earth dist.	6199 Sep 28 19:53	10° Ƴ 19′23	18.80368 AU	conjunction	6206 Apr 25 11:45	6° 8 23'50	-0°43'56
direct	6199 Dec 15 06:15	8° Ƴ 19'47		minimum elong	6206 Apr 25 11:45	6° 8 23'50	0°43'58
evening set	6200 Mar 16 13:32	11° Y 24'11		max. Earth dist.	6206 Apr 26 07:16	6° 8 26'39	21.02320 AU
Ç				morning rise	6206 May 11 06:56	7° 8 18'04	
conjunction	6200 Apr 01 05:19	12° Ƴ 18'38	00/10/18	retrograde	6206 Aug 12 14:55	10° 8 24'00	
minimum elong	6200 Apr 01 05:18	12°Υ18'38	0°49'19	opposition	6206 Oct 29 10:28	8° 8 25'32	0047120
Č	-			11			
max. Earth dist.	6200 Apr 01 21:29		20.82490 AU	min. Earth dist.	6206 Oct 28 16:19		19.03405 AU
morning rise	6200 Apr 16 21:51	13° Y 13'14		direct	6207 Jan 13 17:07	6° 8 28'52	
retrograde	6200 Jul 18 12:25	16° Y 20′14		evening set	6207 Apr 13 22:52	9° 8 28'55	
opposition	6200 Oct 03 22:40	14° Ƴ 21'42					
min. Earth dist.	6200 Oct 03 07:19	14° Ƴ 23'14	18.84590 AU	conjunction	6207 Apr 29 16:24	10° 8 22'50	-0°42'16
direct	6200 Dec 19 17:05	12° Y 23'49		minimum elong	6207 Apr 29 16:24	10° 8 22'50	0°42'18
evening set	6201 Mar 20 19:16	15° Ƴ 27'23		max. Earth dist.	6207 Apr 30 10:56	10° 8 25'30	21.04317 AU
8				morning rise	6207 May 15 12:23	11° 8 17'06	
conjunction	6201 Apr 05 10:58	16° Ƴ 21'41	-0°48'59	retrograde	6207 Aug 16 23:31	14° 8 23'00	
	*	16° Υ 21'41	0°49'00	•	•	12° 8 24'33	0045141
minimum elong	6201 Apr 05 10:58			opposition	6207 Nov 02 19:15	_	
max. Earth dist.	6201 Apr 06 02:51	16° Y 24′00	20.86567 AU	min. Earth dist.	6207 Nov 02 01:08	_	19.05167 AU
morning rise	6201 Apr 21 03:56	17° Y 16′10		direct	6208 Jan 17 23:32	10° 8 28'02	
retrograde	6201 Jul 22 22:18	20° Y 22'52		evening set	6208 Apr 17 03:06	13° 8 27'46	
opposition	6201 Oct 08 09:36	18° Ƴ 24'18	-0°53'54				
min. Earth dist.	6201 Oct 07 17:04	18° Ƴ 25'58	18.88530 AU	conjunction	6208 May 02 21:18	14° 8 21'41	-0°40'24
direct	6201 Dec 24 02:19	16° Y 26′37		minimum elong	6208 May 02 21:18	14° 8 21'41	0°40'26
evening set	6202 Mar 25 00:28	19° Ƴ 29'26		max. Earth dist.	6208 May 03 16:43	14° 8 24'29	21.05816 AU
					6208 May 14 00:43	15° 8	
conjunction	6202 Apr 09 16:27	20° Y 23'37	0040126	morning rise	6208 May 18 17:46	15° 8 15'58	
				•		_	
minimum elong	6202 Apr 09 16:27	20° Y 23'37	0°48'28	retrograde	6208 Aug 20 07:41	18° 8 21'54	
max. Earth dist.	6202 Apr 10 10:05		20.90357 AU	min. Earth dist.	6208 Nov 05 10:07	_	19.06394 AU
morning rise	6202 Apr 25 09:37	21° Y 18′01		opposition	6208 Nov 06 03:52	16° 8 23'27	-0°43'30
retrograde	6202 Jul 27 05:31	24° Ƴ 24'27			6208 Dec 15 00:12	15°₹ ႘	
opposition	6202 Oct 12 20:13	22° Y 25′53	-0°53'08	direct	6209 Jan 21 06:24	14° 8 27'04	
min. Earth dist.	6202 Oct 12 03:24	22° Ƴ 27'34	18.92178 AU		6209 Feb 26 10:45	15° 8	
direct	6202 Dec 28 11:19	20° Ƴ 28'25		evening set	6209 Apr 21 07:31	17° 8 26'30	
evening set	6203 Mar 29 05:18	23° Y '30'31		5 · • · · · · · · · · · · · · · · · · ·	v=v>p- =- v / (v -	G	
evening set	0203 Mai 2) 03.10	23 3031		conjunction	6209 May 07 02:05	18° 8 20'27	0°38'21
:	(202 A 12 21-22	24° Y 24'37	0947120	3	,	18° 8 20'27	
conjunction	6203 Apr 13 21:23			minimum elong	6209 May 07 02:06		
minimum elong	6203 Apr 13 21:23	24° Y 24'37		max. Earth dist.	6209 May 07 20:03		21.06770 AU
max. Earth dist.	6203 Apr 14 14:39		20.93865 AU	morning rise	6209 May 22 23:23	19° 8 14'46	
morning rise	6203 Apr 29 15:09	25° Ƴ 18'57		retrograde	6209 Aug 24 15:40	22° 8 20'47	
retrograde	6203 Jul 31 15:00	28° Ƴ 25'11		opposition	6209 Nov 10 12:19	20° 8 22'17	-0°41'08
opposition	6203 Oct 17 06:19	26° Y 26'38	-0°52'08	min. Earth dist.	6209 Nov 09 18:59	20° 8 24'00	19.07066 AU
min. Earth dist.	6203 Oct 16 12:37	26° Ƴ 28'24	18.95535 AU	direct	6210 Jan 25 12:21	18° 8 25'57	
direct	6204 Jan 01 19:21	24° Y 29'21		evening set	6210 Apr 25 11:54	21° 8 25'10	
evening set	6204 Apr 01 09:52	27° Ƴ 30'51		Č	1	_	
evening sec	020.11p1 01 03.02	27 . 3001		conjunction	6210 May 11 07:14	22° 8 19'09	-0°36'06
conjunction	6204 Apr 17 02:23	28° Y 24'52	-0°46'38	minimum elong	6210 May 11 07:14	22° 8 19'09	
	•				•		
minimum elong	6204 Apr 17 02:23	28° Y 24'52		max. Earth dist.	6210 May 12 01:47	_	21.07148 AU
max. Earth dist.	6204 Apr 17 21:13		20.97051 AU	morning rise	6210 May 27 05:07	23° 8 13'32	
morning rise	6204 May 02 20:29	29° Ƴ 19'09		retrograde	6210 Aug 28 23:40	26° 8 19'37	
	6204 May 15 05:54	9° 8		opposition	6210 Nov 14 20:35	24° 8 21'02	-0°38'33
retrograde	6204 Aug 03 22:08	2° 8 25'13		min. Earth dist.	6210 Nov 14 03:39	24° 8 22'44	19.07147 AU
opposition	6204 Oct 20 15:54	0° 8 26'42	-0°50'52	direct	6211 Jan 29 19:15	22° 8 24'43	
min. Earth dist.	6204 Oct 19 22:08		18.98544 AU	evening set	6211 Apr 29 16:25	25° 8 23'45	
	6204 Oct 31 21:54	30°RΥ			-r 10.20	. 0.20 .0	
direct	6205 Jan 05 02:55	28° Y 29'39		conjunction	6211 May 15 12:17	26° 8 17'48	-0°33'//1
ancei				·	•		
	6205 Mar 07 11:01	0° 8		minimum elong	6211 May 15 12:17	26° 8 17'48	
evening set	6205 Apr 05 14:22	1° 8 30'36		max. Earth dist.	6211 May 16 05:13		21.06954 AU
				morning rise	6211 May 31 11:08	27° 8 12'15	
conjunction	6205 Apr 21 07:05	2° 8 24'33			6211 Aug 05 16:58	Π $^{\circ}0$	
minimum elong	6205 Apr 21 07:05	2° 8 24'33	0°45'24	retrograde	6211 Sep 02 07:46	0° Ⅱ 18′27	
max. Earth dist.	6205 Apr 22 01:15	2° 8 27'11	20.99886 AU		6211 Sep 30 07:59	30° ₹ 8	
morning rise	6205 May 07 01:52	3° 8 18'49		opposition	6211 Nov 19 04:40	28° 8 19'44	-0°35'47
S	•			• •		-	

min. Earth dist.	6211 Nov 18 12:22	28° 8 21'21	19.06673 AU	behind sun begin	6218 Jun 12 02:46	24° ∏ 12'19	
direct	6212 Feb 03 00:50	26° 8 23'22		behind sun end	6218 Jun 12 10:53	24° Ⅱ 13'27	
evening set	6212 May 02 20:57	29° 8 22'17		max. Earth dist.	6218 Jun 12 21:42	24° Ⅱ 15′01	20.93212 AU
	6212 May 13 23:17	$\Pi^{\circ}0$		morning rise	6218 Jun 28 11:28	25° Ⅱ 08'16	
				retrograde	6218 Sep 30 19:01	28° Ⅱ 16′16	
conjunction	6212 May 18 17:40	0° Ⅱ 16′24		opposition	6218 Dec 17 10:04	26° Ⅱ 16'32	
minimum elong	6212 May 18 17:40	0° Ⅱ 16'24		min. Earth dist.	6218 Dec 16 21:00		18.91576 AU
max. Earth dist.	6212 May 19 11:10		21.06211 AU	direct	6219 Mar 02 16:37	24°∏19'24	
morning rise	6212 Jun 03 17:08	1° Ⅱ 10'56		evening set	6219 May 31 12:24	27° Ⅱ 19'28	
retrograde	6212 Sep 05 14:57	4° Ⅱ 17'14	0022150		(210) 1 (14 27	200T14124	0000120
opposition min. Earth dist.	6212 Nov 22 12:20 6212 Nov 21 20:24	2° Ⅱ 18'23	-0°32′50 19.05673 AU	conjunction	6219 Jun 16 14:37 6219 Jun 16 14:37	28° Ⅱ 14'34 28° Ⅱ 14'34	
direct	6212 Nov 21 20.24 6213 Feb 06 07:22	2 ∏ 1939 0° ∏ 21'57	19.030/3 AU	minimum elong behind sun begin	6219 Jun 16 14.37	28° П 13'48	0 09 33
evening set	6213 May 07 01:44	3° П 20'48		behind sun end	6219 Jun 16 20:07	28° I I15'20	
evening set	0213 Way 07 01.44	3 112048		max. Earth dist.	6219 Jun 17 03:33		20.89852 AU
conjunction	6213 May 22 23:00	4° Ⅱ 15'00	-0°28'22	morning rise	6219 Jul 02 20:21	29° I 10'09	20.07032710
minimum elong	6213 May 22 23:00 6213 May 22 23:00		0°28'25	morning rise	6219 Jul 18 04:07	0°95	
max. Earth dist.	6213 May 23 15:01		21.04989 AU	retrograde	6219 Oct 05 05:31	2° © 18'35	
morning rise	6213 Jun 07 23:28	5° Ⅱ 09'38	21.01,70,7110	opposition	6219 Dec 21 18:06	0°9518'44	-0°08'32
retrograde	6213 Sep 09 23:32	8° I 16'08		min. Earth dist.	6219 Dec 21 06:22		18.88043 AU
opposition	6213 Nov 26 20:05	6° Ⅱ 17'06	-0°29'44		6219 Dec 29 10:49	30°R∏	
min. Earth dist.	6213 Nov 26 04:45	6° Ⅱ 18'38	19.04236 AU	direct	6220 Mar 05 21:42	28° Ⅱ 21′27	
direct	6214 Feb 10 12:33	4° Ⅲ 20′33			6220 May 08 17:04	0ಂತಾ	
evening set	6214 May 11 06:26	7° Ⅱ 19'25		evening set	6220 Jun 03 19:58	1°522'01	
conjunction	6214 May 27 04:37	8° Ⅱ 13'43	-0°25'29	conjunction	6220 Jun 19 23:11	2° © 17'19	-0°06'05
minimum elong	6214 May 27 04:37	8° Ⅱ 13'43	0°25'31	minimum elong	6220 Jun 19 23:12	2° © 17'19	0°06'08
max. Earth dist.	6214 May 27 21:26		21.03344 AU	behind sun begin	6220 Jun 19 16:53	2° © 16'26	
morning rise	6214 Jun 12 05:45	9° Ⅱ 08'29		behind sun end	6220 Jun 20 05:31	2° © 18'12	
retrograde	6214 Sep 14 06:47	12° Ⅱ 15'11		max. Earth dist.	6220 Jun 20 12:19		20.86135 AU
opposition	6214 Dec 01 03:41	10° Ⅱ 15'59		morning rise	6220 Jul 06 05:36	3° © 13'06	
min. Earth dist.	6214 Nov 30 12:29		19.02391 AU	retrograde	6220 Oct 08 16:17	6°522'01	
direct	6215 Feb 14 18:43	8° Ⅱ 19′20		opposition	6220 Dec 25 02:12	4°522'03	
evening set	6215 May 15 11:42	11° Ⅱ 18'17		min. Earth dist.	6220 Dec 24 14:58		18.84131 AU
	(215.)(21.10.21	120T12142	0022120	direct	6221 Mar 10 04:34	2°524'38	
conjunction	6215 May 31 10:31	12° Ⅱ 12'43 12° Ⅱ 12'43		evening set	6221 Jun 08 04:24	5° © 25'45	
minimum elong max. Earth dist.	6215 May 31 10:31 6215 Jun 01 01:51		21.01323 AU	agniumation	6221 Jun 24 08:21	6° © 21'16	0002127
morning rise	6215 Jun 16 12:42	12 II 14 34 13° II 07'37	21.01323 AU	conjunction minimum elong	6221 Jun 24 08:20	6°921'15	
retrograde	6215 Sep 18 15:42	16° Ⅱ 14'34		behind sun begin	6221 Jun 24 01:41	6°\$20'20	0 0237
opposition	6215 Dec 05 11:08	14° I I15'12	-0°23'06	behind sun end	6221 Jun 24 14:59	6°922'11	
min. Earth dist.	6215 Dec 04 20:43		19.00196 AU	max. Earth dist.	6221 Jun 24 19:12		20.82040 AU
direct	6216 Feb 18 23:21	12° I 18'26	17.00170110	morning rise	6221 Jul 10 15:47	7° © 17'15	20.020.0110
evening set	6216 May 18 17:10	15° Ⅱ 17'33		retrograde	6221 Oct 13 03:48	10°\$26'42	
J	•			opposition	6221 Dec 29 10:49	8° 5 26'37	-0°00'51
conjunction	6216 Jun 03 16:57	16° Ⅱ 12'08	-0°19'23	min. Earth dist.	6221 Dec 29 01:17	8°527'36	18.79838 AU
minimum elong	6216 Jun 03 16:57	16° Ⅱ 12'08	0°19'25	direct	6222 Mar 14 10:47	6° 5 29'00	
max. Earth dist.	6216 Jun 04 08:54	16° Ⅱ 14'24	20.98950 AU	asc. node	6222 Mar 19 09:33	6° 5 29'39	
morning rise	6216 Jun 19 19:50	17° Ⅱ 07'10		evening set	6222 Jun 12 13:20	9° 5 30'44	
retrograde	6216 Sep 21 23:58	20° Ⅱ 14'25					
opposition	6216 Dec 08 18:39	18° Ⅱ 14'56		conjunction	6222 Jun 28 18:21	10° © 26'29	0°01'00
min. Earth dist.	6216 Dec 08 04:24		18.97647 AU	minimum elong	6222 Jun 28 18:21	10° © 26'29	0°00'58
direct	6217 Feb 22 05:35	16° Ⅱ 18′02		behind sun begin	6222 Jun 28 11:42	10° © 25'32	
evening set	6217 May 22 23:03	19° Ⅱ 17′24		behind sun end	6222 Jun 29 01:01	10°527'25	20 77522 444
	(217.1 07.22.20	200T1207	0017110	max. Earth dist.	6222 Jun 29 05:02		20.77533 AU
conjunction	6217 Jun 07 23:29	20° Ⅱ 12'07		morning rise	6222 Jul 15 02:30	11°522'42	
minimum elong max. Earth dist.	6217 Jun 07 23:30 6217 Jun 08 13:50	20° Ⅱ 12'07	20.96243 AU	retrograde opposition	6222 Oct 17 15:46 6223 Jan 02 19:40	14°532'41	0°03'03
max. Earth dist.	6217 Jun 08 13:50 6217 Jun 24 03:24	20° II 14°10 21° II 07'20	20.70243 AU	opposition min. Earth dist.	6223 Jan 02 19:40 6223 Jan 02 10:46	12° © 32'27 12° © 33'22	
retrograde	6217 Sep 26 09:24	21 H 07 20 24° H 14'57		direct	6223 Mar 18 18:20	12 \$33 22 10° \$34'37	10.73100 AU
opposition	6217 Sep 26 09:24 6217 Dec 13 02:22	24 H 1437 22° H 15'19	-0°16'00	evening set	6223 Jun 16 23:18	10 \$3437 13°\$37'00	
min. Earth dist.	6217 Dec 13 02:22		18.94779 AU	J. J. 11115 500	J Jun 10 2J.10	.5 -5100	
direct	6218 Feb 26 10:02	20° I 18'18	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	conjunction	6223 Jul 03 05:05	14° © 32'59	0°04'34
evening set	6218 May 27 05:22	23° I 17'59		minimum elong	6223 Jul 03 05:04	14° © 32'59	0°04'32
S	, <u>-</u>			behind sun begin	6223 Jul 02 22:32	14° © 32'04	
conjunction	6218 Jun 12 06:50	24° Ⅱ 12'53	-0°12'52	behind sun end	6223 Jul 03 11:37	14° © 33'55	
minimum elong	6218 Jun 12 06:50	24° Ⅱ 12'53	0°12'56	max. Earth dist.	6223 Jul 03 13:04	14° © 34'07	20.72591 AU

morning rise	6223 Jul 19 14:15	15° © 29'27		minimum elong	6229 Jul 28 12:38	9° Ω 40'33	
retrograde	6223 Oct 22 03:57	18° © 39'59		max. Earth dist.	6229 Jul 28 12:51		20.36492 AU
opposition	6224 Jan 07 04:48	16° 5 39'34	0°06'58	morning rise	6229 Aug 14 02:15	10° Ω 38'35	
min. Earth dist.	6224 Jan 06 21:55	16°ණ40'17	18.69955 AU	retrograde	6229 Nov 16 15:04	13° Ω 52'45	
direct	6224 Mar 22 01:39	14°9541'27		opposition	6230 Jan 31 19:19	11° Ω 51′02	
evening set	6224 Jun 20 09:48	17° © 44'33		min. Earth dist.	6230 Jan 31 19:29		18.33247 AU
				direct	6230 Apr 16 09:39	9° Ω 50'51	
conjunction	6224 Jul 06 16:38	18° © 40'48	0°08'04	evening set	6230 Jul 16 16:54	12° Ω 59'19	
minimum elong	6224 Jul 06 16:38	18° © 40'48	0°08'03				
behind sun begin	6224 Jul 06 10:41	18° © 39'57		conjunction	6230 Aug 02 04:48	13° Ω 57'14	0°28'00
behind sun end	6224 Jul 06 22:35	18°541'38		minimum elong	6230 Aug 02 04:47	13° Ω 57'14	0°27'59
max. Earth dist.	6224 Jul 07 00:16		20.67236 AU	max. Earth dist.	6230 Aug 02 04:45		20.30021 AU
morning rise	6224 Jul 23 02:27	19°937'30		morning rise	6230 Aug 18 18:55	14° £ 55'32	
retrograde	6224 Oct 25 16:56	22°548'35	0010151		6230 Aug 20 02:01	15° Ω	
opposition	6225 Jan 10 14:16	20°547'58	0°10'51	retrograde	6230 Nov 21 08:22	18° Ω 10'22	0922144
min. Earth dist. direct	6225 Jan 10 07:56 6225 Mar 26 10:19	20°9948'37 18°9549'33	18.64401 AU	opposition min. Earth dist.	6231 Feb 05 07:17	16° Ω 08'29	18.26769 AU
		21°953'24		min. Earth dist.	6231 Feb 05 07:32	10 3 00 2 8 15°RΩ	18.20709 AU
evening set	6225 Jun 24 20:58	21 953 24		direct	6231 Mar 06 00:07 6231 Apr 20 22:50	13° K3 € 14° Ω 07'59	
conjunction	6225 Jul 11 04:32	22°549'54	0°11'34	direct	6231 Apr 20 22:30 6231 Jun 04 20:29	14 ∂ ℓ 07 39 15° Ω	
minimum elong	6225 Jul 11 04:32	22°949'54	0°11'31	evening set	6231 Jul	13 δ ε 17° Ω 17'31	
behind sun begin	6225 Jul 10 23:45	22° © 49'13	0 11 31	evening set	0231 Jul 21 09.18	1/061/31	
behind sun end	6225 Jul 11 09:19	22° © 50'34		conjunction	6231 Aug 06 21:47	18° Ω 15'45	0°30'57
max. Earth dist.	6225 Jul 11 09:41		20.61518 AU	minimum elong	6231 Aug 06 21:47	18° Ω 15'45	0°30'57
morning rise	6225 Jul 27 15:20	23°946'52	20.01310710	max. Earth dist.	6231 Aug 06 19:36		20.23548 AU
retrograde	6225 Oct 30 05:39	26°958'31		morning rise	6231 Aug 23 12:33	19° Ω 14'19	20.233 10 110
opposition	6226 Jan 15 00:12	24°957'41	0°14'43	retrograde	6231 Nov 25 23:05	22° Ω 29'50	
min. Earth dist.	6226 Jan 14 19:51	24°958'08	18.58534 AU	opposition	6232 Feb 09 19:55	20° Ω 27'49	0°35'56
direct	6226 Mar 30 18:16	22° © 58'55		min. Earth dist.	6232 Feb 09 22:12		18.20318 AU
evening set	6226 Jun 29 08:53	26° © 03'34		direct	6232 Apr 24 09:40	18° Ω 26'59	
8				evening set	6232 Jul 25 02:28	21° Ω 37'39	
conjunction	6226 Jul 15 17:30	27° © 00'21	0°15'01	Č			
minimum elong	6226 Jul 15 17:30	27° © 00'21	0°14'59	conjunction	6232 Aug 10 15:47	22° Ω 36'11	0°33'45
behind sun begin	6226 Jul 15 15:12	27° © 00'01		minimum elong	6232 Aug 10 15:47	22° Ω 36'11	0°33'43
behind sun end	6226 Jul 15 19:49	27° 5 00'41		max. Earth dist.	6232 Aug 10 13:07	22° Ω 35'47	20.17121 AU
max. Earth dist.	6226 Jul 15 22:27	27° 5 01'04	20.55519 AU	morning rise	6232 Aug 27 06:57	23° Ω 35′01	
morning rise	6226 Aug 01 04:56	27° © 57'34		retrograde	6232 Nov 29 17:34	26° Ω 51'14	
	6226 Sep 10 20:29	$0^{\circ}\Omega$		opposition	6233 Feb 13 09:07	24° Ω 49'06	0°38'57
retrograde	6226 Nov 03 20:08	1° Ω 09'49		min. Earth dist.	6233 Feb 13 11:28	24° Ω 48'51	18.13912 AU
	6226 Dec 29 05:26	30° ℝ ∽		direct	6233 Apr 29 00:22	22° Ω 47'59	
opposition	6227 Jan 19 10:13	29° 5 08'45	0°18'31	evening set	6233 Jul 29 20:40	25° Ω 59'48	
min. Earth dist.	6227 Jan 19 06:16	29° 5 09'09	18.52414 AU				
direct	6227 Apr 04 04:19	27° © 09'38		conjunction	6233 Aug 15 10:32	26° Ω 58'38	0°36'22
	6227 Jun 29 10:24	$0^{\circ}\Omega$		minimum elong	6233 Aug 15 10:32	26° Ω 58'38	0°36'21
evening set	6227 Jul 03 21:46	0° Ω 15'10		max. Earth dist.	6233 Aug 15 05:55		20.10734 AU
				morning rise	6233 Sep 01 02:13	27° Ω 57'45	
conjunction	6227 Jul 20 07:05	1° Ω 12'13			6233 Oct 10 12:03	0° mp	
minimum elong	6227 Jul 20 07:05	1° Ω 12'13		retrograde	6233 Dec 04 09:49	1° Mp 14'40	
max. Earth dist.	6227 Jul 20 09:39		20.49303 AU	***	6234 Jan 29 20:51	30°R€	0041146
morning rise	6227 Aug 05 19:24 6227 Nov 08 09:17	2° Ω 09'42 5° Ω 22'34		opposition	6234 Feb 17 23:10	29° Ω 12'26	
retrograde opposition	6228 Jan 23 20:51	3° Ω 21'16	0°22'14	min. Earth dist. direct	6234 Feb 18 03:44 6234 May 03 13:01	29 δ (11 3 / 27° Ω 11'00	18.07549 AU
min. Earth dist.	6228 Jan 23 18:54		18.46122 AU	direct	6234 Jul 27 17:00	0° m	
direct	6228 Apr 07 12:43	1° Ω 21'47	16.40122 AU	evening set	6234 Aug 03 16:01	0° Mp 24'02	
evening set	6228 Jul 07 11:12	4°Ω28'15		evening set	0234 Aug 03 10.01	0 11/2402	
evening set	0220 Jul 0 / 11.12	7 06201J		conjunction	6234 Aug 20 06:35	1° m 23'10	0°38'48
conjunction	6228 Jul 23 21:30	5° Ω 25'35	0°21'43	minimum elong	6234 Aug 20 06:34	1° m 23'10	
minimum elong	6228 Jul 23 21:30	5° Ω 25'35		max. Earth dist.	6234 Aug 20 01:00		20.04386 AU
max. Earth dist.	6228 Jul 23 23:54		20.42941 AU	morning rise	6234 Sep 05 22:35	2° m 22'32	
morning rise	6228 Aug 09 10:20	6° £ 23'20	,	retrograde	6234 Dec 09 05:42	5° mp 40'08	
retrograde	6228 Nov 12 01:21	9° Ω 36'50		opposition	6235 Feb 22 13:36	3° m/ 37'49	0°44'22
opposition	6229 Jan 27 07:45		0°25'52	min. Earth dist.	6235 Feb 22 18:33		18.01208 AU
min. Earth dist.	6229 Jan 27 05:58		18.39707 AU	direct	6235 May 08 05:10	1° m/36'04	
direct	6229 Apr 12 00:16	5° £ 35'30		evening set	6235 Aug 08 12:32	4° m 50'19	
evening set	6229 Jul 12 01:42	8° Ω 42'55		-	-		
				conjunction	6235 Aug 25 03:33	5° m 49'44	0°41'01
conjunction	6229 Jul 28 12:39	9° Ω 40′33	0°24'55	minimum elong	6235 Aug 25 03:33	5° ™ 49'44	0°41'00

max. Earth dist.	6235 Aug 24 19:56	5° m 48'35	19.98037 AU	min. Earth dist.	6242 Mar 26 04:06	5° £ 24'08	17.59221 AU
morning rise	6235 Sep 10 19:51	6° Mp 49'21	17.7003, 110	direct	6242 Jun 08 11:46	3° £ 21'16	17.09221110
retrograde	6235 Dec 13 23:43	10° mp 07'38		evening set	6242 Sep 10 11:04	6° £ 43′26	
opposition	6236 Feb 27 05:03	8° m 05'12	0°46'44	max. Earth dist.	6242 Sep 26 11:12	7° £ 42'00	19.56689 AU
min. Earth dist.	6236 Feb 27 12:21	8° m 04'25	17.94871 AU		•		
direct	6236 May 11 19:53	6° m 03'07		conjunction	6242 Sep 27 04:05	7° £ 44'36	0°49'12
evening set	6236 Aug 12 09:47	9° m 18'33		minimum elong	6242 Sep 27 04:05	7° ≏ 44'36	0°49'12
		-		morning rise	6242 Oct 13 20:35	8° ≏ 45'42	
conjunction	6236 Aug 29 01:18	10° m 18'15	0°43'01	retrograde	6243 Jan 15 06:47	12° ≏ 07'34	
minimum elong	6236 Aug 29 01:18	10° m 18'15	0°43'01	opposition	6243 Mar 30 10:11	10° ≏ 04'15	0°54'49
max. Earth dist.	6236 Aug 28 16:18	10° Mp 16'53	19.91708 AU	min. Earth dist.	6243 Mar 30 23:54	10° ≏ 02'45	17.54307 AU
morning rise	6236 Sep 14 17:51	11° m)18'07		direct	6243 Jun 13 09:49	7° ≙ 59'36	
retrograde	6236 Dec 17 20:51	14° m 37'02		evening set	6243 Sep 15 13:36	11° ≏ 22'47	
opposition	6237 Mar 02 21:03	12° Mp 34'29	0°48'49				
min. Earth dist.	6237 Mar 03 04:41	12° Mp 33'40	17.88554 AU	conjunction	6243 Oct 02 06:44	12° ≏ 24'08	0°49'09
direct	6237 May 16 13:43	10°M 32'01		minimum elong	6243 Oct 02 06:44	12° ≙ 24'08	0°49'10
evening set	6237 Aug 17 08:05	13° Mp 48'38		max. Earth dist.	6243 Oct 01 14:17	12° ≏ 21'36	19.51991 AU
-	-			morning rise	6243 Oct 18 22:45	13° ≏ 25'23	
conjunction	6237 Sep 03 00:02	14° Mp 48'36	0°44'46	retrograde	6244 Jan 20 05:05	16° ≏ 47'36	
minimum elong	6237 Sep 03 00:01	14° Mp 48'36	0°44'44	opposition	6244 Apr 03 06:37	14° ≏ 44'15	0°54'36
max. Earth dist.	6237 Sep 02 13:24	14° Mp 47'00	19.85404 AU	min. Earth dist.	6244 Apr 03 21:02	14° ≏ 42'41	17.49854 AU
morning rise	6237 Sep 19 16:41	15° Mp 48'43		direct	6244 Jun 17 06:59	12° ≏ 39'21	
retrograde	6237 Dec 22 16:10	19° m 08'12		evening set	6244 Sep 19 16:38	16° ≏ 03'30	
opposition	6238 Mar 07 13:45	17° Mp 05'31	0°50'38	· ·	1		
min. Earth dist.	6238 Mar 07 23:34	17° Mp 04'28	17.82295 AU	conjunction	6244 Oct 06 09:30	17° ≏ 05'00	0°48'47
direct	6238 May 21 06:00	15° Mp 02'41		minimum elong	6244 Oct 06 09:30	17° ≏ 05'00	0°48'47
evening set	6238 Aug 22 07:13	18° m 20'27		max. Earth dist.	6244 Oct 05 15:31	17° ≏ 02'13	19.47797 AU
Č	Č			morning rise	6244 Oct 23 01:20	18° ഫ 06'23	
conjunction	6238 Sep 07 23:33	19° m 20'41	0°46'14	retrograde	6245 Jan 24 04:56	21° ≏ 28'56	
minimum elong	6238 Sep 07 23:33	19° m 20'41	0°46'14	opposition	6245 Apr 08 03:34	19° ≏ 25'35	0°54'01
max. Earth dist.	6238 Sep 07 11:14	19° m) 18'49	19.79204 AU	min. Earth dist.	6245 Apr 08 18:10	19° ഫ 23'59	17.45931 AU
morning rise	6238 Sep 24 16:24	20° m/21'02		direct	6245 Jun 22 06:01	17° ≏ 20'27	
retrograde	6238 Dec 27 14:33	23° m 41'04		evening set	6245 Sep 24 20:11	20° £ 45'32	
opposition	6239 Mar 12 07:00	21°m/38'14	0°52'09	· ·	1		
min. Earth dist.	6239 Mar 12 17:09	21°m/37'09	17.76161 AU	conjunction	6245 Oct 11 13:04	21° ≏ 47'12	0°48'05
direct	6239 May 26 01:33	19° m 35'00		minimum elong	6245 Oct 11 13:04	21° ≏ 47'12	0°48'05
evening set	6239 Aug 27 07:09	22° m 53'55		max. Earth dist.	6245 Oct 10 19:52	21° ≏ 44'32	19.44137 AU
Č	Č	Î		morning rise	6245 Oct 28 04:19	22° £ 48'40	
conjunction	6239 Sep 12 23:47	23° m 54'25	0°47'26	retrograde	6246 Jan 29 04:11	26° £ 11'30	
minimum elong	6239 Sep 12 23:47	23° m 54'25		opposition	6246 Apr 13 01:00	24° ഫ 08'12	0°53'04
max. Earth dist.	6239 Sep 12 10:31	-	19.73145 AU	min. Earth dist.	6246 Apr 13 15:56		17.42534 AU
morning rise	6239 Sep 29 16:32	24° m 54'58		direct	6246 Jun 27 05:24	22° £ 02'55	
retrograde	6240 Jan 01 10:46	28° m 15'30		evening set	6246 Sep 30 00:26	25° ≏ 28'52	
opposition	6240 Mar 16 00:57	26° m 12'33	0°53'20	<i>3</i>			
min. Earth dist.	6240 Mar 16 12:55	•	17.70214 AU	conjunction	6246 Oct 16 16:54	26° £ 30′39	0°47'03
direct	6240 May 29 19:24	24° m 08'56		minimum elong	6246 Oct 16 16:54	26° £ 30'39	0°47'05
evening set	6240 Aug 31 07:48	27° m) 28'57		max. Earth dist.	6246 Oct 15 22:11		19.41011 AU
max. Earth dist.	6240 Sep 16 09:37	-	19.67333 AU	morning rise	6246 Nov 02 07:48	27° ≏ 32'13	
	-r	a ·/ = ·		5 24	6246 Dec 19 19:48	0°M	
conjunction	6240 Sep 17 00:36	28° m 29'41	0°48'20	retrograde	6247 Feb 03 03:55	0°M55'18	
minimum elong	6240 Sep 17 00:36	28° m 29'41	0°48'20		6247 Mar 21 14:03	30°R Ω	
morning rise	6240 Oct 03 17:24	29° m 30'26		opposition	6247 Apr 17 23:06	28° ♀ 52'05	0°51'45
	6240 Oct 12 02:53	0∘ ʊ		min. Earth dist.	6247 Apr 18 14:35		17.39673 AU
retrograde	6241 Jan 05 09:51	2° £ 51'28		direct	6247 Jul 02 05:37	26° £ 46'40	
opposition	6241 Mar 20 19:24	0° £ 48'21	0°54'11	4.1.001	6247 Oct 01 11:54	0°M	
min. Earth dist.	6241 Mar 21 07:34		17.64552 AU	evening set	6247 Oct 05 04:49	0°M13'25	
	6241 Apr 08 19:43	30°R, Mp					
direct	6241 Jun 03 16:14	28° Mp 44'22		conjunction	6247 Oct 21 21:04	1°M15'18	0°45'42
******	6241 Jul 27 23:13	20 ಗ್ಗಳ-122 0° ೧		minimum elong	6247 Oct 21 21:04 6247 Oct 21 21:04	1°ML15'18	
evening set	6241 Sep 05 08:59	ა _ 2° ჲ 05'28		max. Earth dist.	6247 Oct 21 21:04 6247 Oct 21 03:10		19.38395 AU
max. Earth dist.	6241 Sep 21 10:55		19.61821 AU	morning rise	6247 Nov 07 11:14	2°M16'54	-7.55575 110
	10.00		,	retrograde	6248 Feb 08 04:17	5°M40'10	
conjunction	6241 Sep 22 02:03	3° ჲ 06'26	0°48'56	opposition	6248 Apr 21 21:45	3°M37'04	0°50'05
minimum elong	6241 Sep 22 02:03	3° ⊆ 06'26	0°48'57	min. Earth dist.	6248 Apr 22 13:13		17.37293 AU
morning rise	6241 Oct 08 18:37	4° £ 07'22	5 1057	direct	6248 Jul 06 07:20	1°M31'34	11.51275 AU
retrograde	6242 Jan 10 07:13	7° £ 28'49		evening set	6248 Oct 09 09:44	4°M59'02	
opposition	6242 Jan 10 07:13 6242 Mar 25 14:36	7 2 2849 5° Ω 25'37	0°54'41	max. Earth dist.	6248 Oct 09 09.44 6248 Oct 25 06:14		19.36251 AU
оррознюн	02-72 IVIAI 23 14.30	5 -2551	J J T T 1	max. Larm dist.	32-10 OCL 23 00.14	2 1103/30	17.50251 AU

conjunction	6248 Oct 26 01:26	6°ML00'57	0°44'03	retrograde	6255 Mar 13 07:08	9° √ 06'46	
minimum elong	6248 Oct 26 01:26	6°ML00'57	0°44'05	opposition	6255 May 25 22:33	7° × 704'15	0°29'33
morning rise	6248 Nov 11 15:03	7°ML02'36	0 1103	min. Earth dist.	6255 May 26 14:44		17.33313 AU
retrograde	6249 Feb 12 04:05	10°M26'00		direct	6255 Aug 10 01:25	4° × 758'14	17.55515110
opposition	6249 Apr 26 20:54	8°M23'00	0°48'04	evening set	6255 Nov 13 19:00	8° × ⁷ 27'28	
min. Earth dist.	6249 Apr 27 13:15		17.35388 AU	max. Earth dist.	6255 Nov 29 11:55		19.33941 AU
direct	6249 Jul 11 08:35	6°M17'23	17.55500 710	max. Earth dist.	0233 1107 27 11.33) X 2013	17.55741710
evening set	6249 Oct 14 14:43	9°M45'27		conjunction	6255 Nov 30 05:52	9° × 729'04	0°24'43
max. Earth dist.	6249 Oct 30 11:21		19.34563 AU	minimum elong	6255 Nov 30 05:52	9° × ² 29'04	0°24'45
max. Latur dist.	024) Oct 30 11.21	10 110 44 30	17.54505 AO	morning rise	6255 Dec 16 13:37	10°×730'13	0 24 43
conjunction	6249 Oct 31 06:04	10° M 47'25	0°42'05	retrograde	6256 Mar 17 07:06	13° 🖈 52'23	
minimum elong	6249 Oct 31 06:04 6249 Oct 31 06:04	10°ML47'25	0°42'07	opposition	6256 May 29 23:13	13 × 32 23	0°25'36
2	6249 Nov 16 18:55	10 IIC47 23 11°IIC49'04	0 42 07	min. Earth dist.	6256 May 30 13:41		17.34746 AU
morning rise		11 11649 04 15°M			•		17.34740 AU
	6250 Jan 27 02:54			direct	6256 Aug 14 05:46	9° 🖈 43'55	
retrograde	6250 Feb 17 05:37	15°M12'29		evening set	6256 Nov 17 22:18	13° ≯ 12'58	
***	6250 Mar 10 13:21	15°RM	0045142		(25) D 04 00 24	140 71405	0021107
opposition	6250 May 01 20:29	13°M09'35	0°45'43	conjunction	6256 Dec 04 08:24	14° 🖈 14'25	0°21'07
min. Earth dist.	6250 May 02 12:27		17.33904 AU	minimum elong	6256 Dec 04 08:24	14° ₹ 14'25	0°21'10
direct	6250 Jul 16 11:43	11°M03'54		max. Earth dist.	6256 Dec 03 16:17		19.35665 AU
evening set	6250 Oct 19 19:59	14°M32'26		morning rise	6256 Dec 20 15:02	15° ₹ 15'23	
	6250 Oct 27 06:34	15°M		retrograde	6257 Mar 22 05:12	18° ∡ ³37′09	
				opposition	6257 Jun 03 23:53	16° ≯ 34'48	0°21'29
conjunction	6250 Nov 05 10:40	15°M34'25	0°39'49	min. Earth dist.	6257 Jun 04 14:23		17.36772 AU
minimum elong	6250 Nov 05 10:40	15°M34'25	0°39'51	direct	6257 Aug 19 08:51	14° ∡ ¹28'51	
max. Earth dist.	6250 Nov 04 15:05		19.33290 AU	evening set	6257 Nov 23 01:13	17° ∡ 757'37	
morning rise	6250 Nov 21 22:45	16°M36'03					
retrograde	6251 Feb 22 05:30	19°M59'26		conjunction	6257 Dec 09 10:14	18° ∡ 58'52	0°17'22
opposition	6251 May 06 20:30	17°M56'38	0°43'03	minimum elong	6257 Dec 09 10:14	18° ∡ 58'52	0°17'24
min. Earth dist.	6251 May 07 13:27	17°M54'46	17.32855 AU	max. Earth dist.	6257 Dec 08 18:14	18° ≯ 56'22	19.38004 AU
direct	6251 Jul 21 13:26	15°M50'50		morning rise	6257 Dec 25 16:02	19° ∡ 59'39	
evening set	6251 Oct 25 01:07	19° M ₊19'45		retrograde	6258 Mar 27 04:12	23° ∡ ¹20'59	
-				opposition	6258 Jun 09 00:28	21° ∡ 18'46	0°17'15
conjunction	6251 Nov 10 15:11	20°M21'43	0°37'17	min. Earth dist.	6258 Jun 09 13:04	21° √ 17'25	17.39413 AU
minimum elong	6251 Nov 10 15:12	20°M21'43	0°37'19	direct	6258 Aug 24 12:44	19° ∡ 12'57	
max. Earth dist.	6251 Nov 09 19:55	20°M18'41	19.32465 AU	evening set	6258 Nov 28 03:20	22° ∡ 741'21	
morning rise	6251 Nov 27 02:29	21°M23'18		8			
retrograde	6252 Feb 27 07:22	24°M46'34		conjunction	6258 Dec 14 11:30	23° х 42'24	0°13'31
opposition	6252 May 10 20:44	22°M43'50	0°40'04	minimum elong	6258 Dec 14 11:30	23° х 42'24	0°13'34
min. Earth dist.	6252 May 11 12:47		17.32245 AU	behind sun begin	6258 Dec 14 07:50	23° х 41'50	0 13 3 .
direct	6252 Jul 25 16:47	20°M37'58	17.522 15 110	behind sun end	6258 Dec 14 15:10	23° ₹ 42'58	
evening set	6252 Oct 29 05:59	24°ML07'08		max. Earth dist.	6258 Dec 13 21:52		19.40947 AU
evening set	0232 001 27 03.37	24 11007 00		morning rise	6258 Dec 30 16:07	24° 🖈 42'58	17.40747 110
conjunction	6252 Nov 14 19:22	25°M09'03	0°34'29	retrograde	6259 Apr 01 02:06	28° × 03'50	
minimum elong	6252 Nov 14 19:22 6252 Nov 14 19:22	25°M09'03	0°34'30	opposition	6259 Jun 14 01:06	26° ₹ '03' 50	0°12'54
max. Earth dist.	6252 Nov 14 19:22 6252 Nov 14 00:07		19.32083 AU	min. Earth dist.	6259 Jun 14 13:14		17.42644 AU
morning rise	6252 Dec 01 05:47	26°M10'34	19.32003 AU	direct	6259 Aug 29 15:30	23° 🖈 56'12	17.42044 AU
retrograde	6253 Mar 03 07:12	20 IL10 34 29°M33'40		evening set	6259 Dec 03 04:58	27° 🖈 24'09	
opposition	6253 May 15 21:18	27°M31'00	0°36'49	evening set	0239 Dec 03 04.36	27 X 24 09	
	•			anniumation	6250 Dag 10 11:59	200.722150	0000136
min. Earth dist. direct	6253 May 16 14:12 6253 Jul 30 18:56	25°M25'03	17.32101 AU	conjunction	6259 Dec 19 11:58 6259 Dec 19 11:58	28° ₹ 24'58	0°09'36 0°09'39
				minimum elong		28° ₹ 24'58	0-09-39
evening set	6253 Nov 03 10:46	28°M54'22		behind sun begin	6259 Dec 19 06:28	28° 🖈 24'08	
	(0.50.) 10.00.00	200 m 5012	0001106	behind sun end	6259 Dec 19 17:28	28° 🖈 25'49	10 44455 477
conjunction	6253 Nov 19 23:23	29°M56'13	0°31'26	max. Earth dist.	6259 Dec 18 22:31		19.44477 AU
minimum elong	6253 Nov 19 23:23	29°M56'13	0°31'28	morning rise	6260 Jan 04 15:46	29° ₹ 25'19	
max. Earth dist.	6253 Nov 19 04:15		19.32188 AU		6260 Jan 14 06:39	0°る	
	6253 Nov 20 23:29	0° ⊀ 7		retrograde	6260 Apr 05 00:28	2° 3 45'43	0000:20
morning rise	6253 Dec 06 08:59	0° ≯ 57'38		opposition	6260 Jun 18 01:23	0° る 43'55	
retrograde	6254 Mar 08 08:12	4° ≯ 20′28		min. Earth dist.	6260 Jun 18 11:48		17.46444 AU
opposition	6254 May 20 21:43	2° ₹ 17'52			6260 Jul 05 11:16	30°₹ ৴	
min. Earth dist.	6254 May 21 13:23		17.32444 AU	direct	6260 Sep 02 18:19	28° ∡ 38'31	
direct	6254 Aug 04 22:45	0° ≯ 11'53			6260 Oct 29 15:30	0°る	
evening set	6254 Nov 08 15:10	3° х ⁴41′13		evening set	6260 Dec 07 05:39	2° る 05'56	
max. Earth dist.	6254 Nov 24 08:51	4° ≯ ¹40′06	19.32788 AU				
				conjunction	6260 Dec 23 11:50	3° ⋜ 06'32	0°05'39
conjunction	6254 Nov 25 03:02	4° ∡ ¹42'57	0°28'10	minimum elong	6260 Dec 23 11:50	3° ප 06'32	0°05'41
minimum elong	6254 Nov 25 03:02	4° ∡ ¹42'57	0°28'13	behind sun begin	6260 Dec 23 05:27	3° ⋜ 05'33	
morning rise	6254 Dec 11 11:36	5° ∡ ¹44'15		behind sun end	6260 Dec 23 18:14	3° ප 07'30	

max. Earth dist.	6260 Dec 23 00:51	3°₹04'50	19.48528 AU	min. Earth dist.	6266 Jul 17 02:40	28° 云 29'48	17.76938 AU
morning rise	6261 Jan 08 14:31	4°る06'39	17.40320710	direct	6266 Oct 01 22:46	26° る 26'38	17.70750710
retrograde	6261 Apr 09 21:58	7° る 26'31		evening set	6267 Jan 04 18:02	29°₹49'09	
opposition	6261 Jun 23 01:38	5° る 24'59	0°04'02	evening sec	6267 Jan 07 17:45	0°≈	
min. Earth dist.	6261 Jun 23 11:25		17.50713 AU				
direct	6261 Sep 07 20:27	3° る 19'52		conjunction	6267 Jan 20 18:06	0° ≈ 48'01	-0°17'50
evening set	6261 Dec 12 05:57	6° ප 46'40		minimum elong	6267 Jan 20 18:06	0° ≈ 48'01	0°17'47
C				max. Earth dist.	6267 Jan 20 14:00	0° ≈ 47'23	19.79860 AU
conjunction	6261 Dec 28 10:55	7° る 47'00	0°01'38	morning rise	6267 Feb 05 15:22	1°≈46′28	
minimum elong	6261 Dec 28 10:55	7° る 47'00	0°01'41	retrograde	6267 May 07 23:30	5°≈02'42	
behind sun begin	6261 Dec 28 04:15	7° る 45'59		opposition	6267 Jul 21 20:06	3°≈02'22	-0°21'47
behind sun end	6261 Dec 28 17:34	7° る 48'00		min. Earth dist.	6267 Jul 21 22:50	3°≈02'04	17.82788 AU
max. Earth dist.	6261 Dec 28 00:02	7° る 45'18	19.53015 AU	direct	6267 Oct 06 23:04	0° ≈ 59'00	
morning rise	6262 Jan 13 12:45	8° ප 46'51		evening set	6268 Jan 09 12:51	4° ≈ 20'27	
retrograde	6262 Apr 14 19:28	12° る 06'12		•			
desc. node	6262 May 24 06:03	11° る 26'12		conjunction	6268 Jan 25 11:56	5°≈19'00	-0°21'24
opposition	6262 Jun 28 01:32	10° る 04'53	-0°00'25	minimum elong	6268 Jan 25 11:56	5° ≈ 18'59	0°21'22
min. Earth dist.	6262 Jun 28 10:03	10° る 03'59	17.55399 AU	max. Earth dist.	6268 Jan 25 08:50	5° ≈ 18'31	19.85785 AU
direct	6262 Sep 12 22:06	8° ට 00'03		morning rise	6268 Feb 10 08:29	6°≈17'10	
evening set	6262 Dec 17 05:17	11° る 26'10		retrograde	6268 May 11 15:49	9° ≈ 32'43	
				opposition	6268 Jul 25 17:25	7° ≈ 32'29	-0°25'40
conjunction	6263 Jan 02 09:23	12° る 26'13	-0°02'29	min. Earth dist.	6268 Jul 25 19:39	7° ≈ 32'15	17.88797 AU
minimum elong	6263 Jan 02 09:22	12° る 26'13	0°02'27	direct	6268 Oct 10 20:30	5° ≈ 29'23	
behind sun begin	6263 Jan 02 02:44	12° る 25'13		evening set	6269 Jan 13 06:32	8° ≈ 49'44	
behind sun end	6263 Jan 02 16:00	12° る 27'14					
max. Earth dist.	6263 Jan 02 00:45	12° る 24'54	19.57878 AU	conjunction	6269 Jan 29 04:48	9° ≈ 47'58	-0°24'49
morning rise	6263 Jan 18 10:06	13° る 25'49		minimum elong	6269 Jan 29 04:47	9° ≈ 47'58	0°24'47
retrograde	6263 Apr 19 16:28	16° る 44'35		max. Earth dist.	6269 Jan 29 03:20	9° ≈ 47'44	19.91871 AU
opposition	6263 Jul 03 01:21	14° る 43'32	-0°04'51	morning rise	6269 Feb 14 00:38	10° ≈ 45'50	
min. Earth dist.	6263 Jul 03 08:50	14° る 42'44	17.60414 AU	retrograde	6269 May 16 09:55	14°≈00'41	
direct	6263 Sep 17 23:23	12° る 39'00		opposition	6269 Jul 30 14:04	12° ≈ 00'33	-0°29'22
evening set	6263 Dec 22 03:49	16° る 04'18		min. Earth dist.	6269 Jul 30 14:07	12° ≈ 00'33	17.94949 AU
				direct	6269 Oct 15 19:51	9° ≈ 57'44	
conjunction	6264 Jan 07 06:45	17° る 04'05	-0°06'26	evening set	6270 Jan 17 23:13	13° ≈ 16'57	
minimum elong	6264 Jan 07 06:44	17° る 04'04	0°06'24				
behind sun begin	6264 Jan 07 00:28	17° る 03'07		conjunction	6270 Feb 02 20:35	14° ≈ 14'51	-0°28'03
behind sun end	6264 Jan 07 13:00	17° る 05'02		minimum elong	6270 Feb 02 20:35	14°≈14'51	0°28'02
max. Earth dist.	6264 Jan 06 22:24	17° る 02'48	19.63043 AU	max. Earth dist.	6270 Feb 02 20:40	14° ≈ 14'52	19.98100 AU
morning rise	6264 Jan 23 06:40	18° る 03'24			6270 Feb 15 04:56	15° ≈	
retrograde	6264 Apr 23 12:53	21° る 21'35		morning rise	6270 Feb 18 15:44	15°≈12'26	
opposition	6264 Jul 07 00:45	19° る 20'44	-0°09'14	retrograde	6270 May 21 00:09	18° ≈ 26′36	
min. Earth dist.	6264 Jul 07 07:16	19° る 20'02	17.65719 AU	opposition	6270 Aug 04 10:14	16° ≈ 26'34	-0°32'51
direct	6264 Sep 21 23:32	17° る 16'29		min. Earth dist.	6270 Aug 04 09:39	16° ≈ 26'38	18.01277 AU
evening set	6264 Dec 26 01:27	20° る 40'56			6270 Sep 12 00:59	15°R≈	
				direct	6270 Oct 20 15:41	14° ≈ 24′03	
conjunction	6265 Jan 11 03:31	21° る 40'25	-0°10'19		6270 Nov 27 06:58	15° ≈	
minimum elong	6265 Jan 11 03:30	21° る 40'25	0°10'17	evening set	6271 Jan 22 14:55	17° ≈ 42'07	
behind sun begin	6265 Jan 10 22:14	21° る 39'37					
behind sun end	6265 Jan 11 08:46	21° る 41'13		conjunction	6271 Feb 07 11:28	18° ≈ 39'42	-0°31'06
max. Earth dist.	6265 Jan 10 21:07	21° る 39'27	19.68464 AU	minimum elong	6271 Feb 07 11:28	18° ≈ 39'42	
morning rise	6265 Jan 27 02:26	22° る 39'28		max. Earth dist.	6271 Feb 07 13:09	18° ≈ 39'57	20.04521 AU
retrograde	6265 Apr 28 09:11	25° る 57'00		morning rise	6271 Feb 23 06:01	19° ≈ 36'59	
opposition	6265 Jul 11 23:33	23° る 56'21	-0°13'32	retrograde	6271 May 25 16:41	22° ≈ 50′29	
min. Earth dist.	6265 Jul 12 04:46		17.71233 AU	opposition	6271 Aug 09 05:37	20° ≈ 50'35	-0°36'07
direct	6265 Sep 27 00:06	21° る 52'25		min. Earth dist.	6271 Aug 09 02:25	20° ≈ 50'54	18.07782 AU
evening set	6265 Dec 30 22:22	25° る 15'56		direct	6271 Oct 25 13:20	18° ≈ 48'24	
				evening set	6272 Jan 27 05:32	22° ≈ 05'18	
conjunction	6266 Jan 15 23:18	26° ප 15'06					
minimum elong	6266 Jan 15 23:18	26° ප 15'06	0°14'06	conjunction	6272 Feb 12 01:22	23° ≈ 02'35	
behind sun begin	6266 Jan 15 19:58	26° る 14'36		minimum elong	6272 Feb 12 01:22	23° ≈ 02'35	0°33'55
behind sun end	6266 Jan 16 02:38	26° る 15'37		max. Earth dist.	6272 Feb 12 04:56	23° ≈ 03'07	20.11102 AU
max. Earth dist.	6266 Jan 15 17:24		19.74075 AU	morning rise	6272 Feb 27 19:22	23° ≈ 59'35	
morning rise	6266 Jan 31 21:26	27° る 13'52		retrograde	6272 May 29 05:40	27° ≈ 12'27	
	6266 Mar 30 09:57	0° ≈		opposition	6272 Aug 13 00:29	25° ≈ 12'41	-0°39'08
retrograde	6266 May 03 03:59	0° ≈ 30'46		min. Earth dist.	6272 Aug 12 20:44	25° ≈ 13'05	18.14443 AU
	6266 Jun 06 19:43	30°R₹		direct	6272 Oct 29 07:00	23° ≈ 10′53	
opposition	6266 Jul 16 22:08	28° ප 30'17	-0°17'44	evening set	6273 Jan 30 19:23	26° ≈ 26'39	

conjunction	6273 Feb 15 14:30	27° ≈ 23'37	0°36'34	retrograde	6279 Jun 29 00:02	26°) 59'24	
,				•		26 \tag{3924} 25°\tag{00'43}	0953150
minimum elong	6273 Feb 15 14:30	27°≈23'37		opposition	6279 Sep 13 18:56		
max. Earth dist.	6273 Feb 15 19:17		20.17823 AU	min. Earth dist.	6279 Sep 13 06:22		18.59951 AU
morning rise	6273 Mar 03 08:03	28°≈20'21		direct	6279 Nov 29 20:39	23°) €01'34	
	6273 Apr 03 00:13	0° ∺		evening set	6280 Feb 29 22:09	26°) €09'43	
retrograde	6273 Jun 02 21:02	1° ∺ 32'35					
	6273 Aug 06 17:25	30° ₹ ≈		conjunction	6280 Mar 16 14:13	27° ₩ 04'52	
opposition	6273 Aug 17 18:26	29° ≈ 33'00	-0°41'55	minimum elong	6280 Mar 16 14:13	27°) €04'52	0°48'17
min. Earth dist.	6273 Aug 17 12:12	29° ≈ 33'38	18.21198 AU	max. Earth dist.	6280 Mar 17 03:12	27°) (06′47	20.62756 AU
direct	6273 Nov 03 02:11	27° ≈ 31'35		morning rise	6280 Apr 01 06:09	28° ₩ 00'02	
	6274 Jan 21 20:54	0° ∀			6280 May 10 13:48	0° Y	
evening set	6274 Feb 04 08:21	0°) 46′13		retrograde	6280 Jul 02 09:31	1° Ƴ 08'34	
					6280 Aug 26 23:32	30° ₽ ₩	
conjunction	6274 Feb 20 02:52	1°) 42′54	-0°38'58	opposition	6280 Sep 17 08:56	29°) €09'57	-0°53'51
minimum elong	6274 Feb 20 02:52	1°) (42'54		min. Earth dist.	6280 Sep 16 20:36		18.65509 AU
max. Earth dist.	6274 Feb 20 09:35		20.24599 AU	direct	6280 Dec 03 08:30	27°) 11'05	10.00007110
morning rise	6274 Mar 07 19:56	2°)(39'22	20.24377710	direct	6281 Feb 27 21:48	0°Υ	
=	6274 Jun 07 09:18	5° ¥ 51′00		avanina aat		0° Υ 18'14	
retrograde		3° ¥ 51'36	0044126	evening set	6281 Mar 05 06:07	0 11814	
opposition	6274 Aug 22 12:09				(201.) (20.21.54	100012111	0040157
min. Earth dist.	6274 Aug 22 05:33		18.27990 AU	conjunction	6281 Mar 20 21:54	1°Υ13'11	
direct	6274 Nov 07 18:15	1° ¥ 50′36		minimum elong	6281 Mar 20 21:54	1° Υ 13'11	
evening set	6275 Feb 08 20:24	5°) 04′06		max. Earth dist.	6281 Mar 21 10:43		20.68145 AU
				morning rise	6281 Apr 05 14:00	2° Y 08'10	
conjunction	6275 Feb 24 14:17	6° ∺ 00′29		retrograde	6281 Jul 06 20:46	5° Ƴ 16'15	
minimum elong	6275 Feb 24 14:17	6° ∺ 00′29	0°41'07	opposition	6281 Sep 21 22:08	3° Ƴ 17'40	-0°54'26
max. Earth dist.	6275 Feb 24 21:55	6° ₩ 01'38	20.31384 AU	min. Earth dist.	6281 Sep 21 08:17	3° Ƴ 19'04	18.70728 AU
morning rise	6275 Mar 12 07:05	6° ¥ 56'43		direct	6281 Dec 07 21:20	1° Ƴ 19'03	
retrograde	6275 Jun 11 23:47	10°) 07'47		evening set	6282 Mar 09 13:17	4° Y 25′14	
opposition	6275 Aug 27 05:04	8° ₩ 08'34	-0°46'42				
min. Earth dist.	6275 Aug 26 20:10	8° ₩ 09'28	18.34743 AU	conjunction	6282 Mar 25 05:04	5° Y 20′00	-0°49'21
direct	6275 Nov 12 11:16	6°) €07'57		minimum elong	6282 Mar 25 05:04	5° Y 20′00	0°49'22
evening set	6276 Feb 13 07:46	9°) 20′21		max. Earth dist.	6282 Mar 25 19:35		20.73193 AU
evening sec	0270100 13 07.10) <u>//2</u> 021		morning rise	6282 Apr 09 21:10	6°Υ14'50	20.73173710
conjunction	6276 Feb 29 01:12	10° ¥ 16′28	0042102	retrograde	6282 Jul 11 05:29	9° Υ 22'29	
		10 X 16 28		-		7° Υ 23'55	0054144
minimum elong	6276 Feb 29 01:12			opposition	6282 Sep 26 10:56		
max. Earth dist.	6276 Feb 29 10:39		20.38080 AU	min. Earth dist.	6282 Sep 25 21:05		18.75625 AU
morning rise	6276 Mar 15 17:38	11° 米 12′27		direct	6282 Dec 12 07:39	5° Y 25'33	
retrograde	6276 Jun 15 11:22	14°) 22′58		evening set	6283 Mar 13 19:48	8° Y 30'46	
opposition	6276 Aug 30 21:23	12° ∺ 23'55					
min. Earth dist.	6276 Aug 30 12:29		18.41382 AU	conjunction	6283 Mar 29 11:27	9° Y 25'21	-0°49'30
direct	6276 Nov 16 01:50	10° 米 23'42		minimum elong	6283 Mar 29 11:27	9° Y 25′21	0°49'31
evening set	6277 Feb 16 18:28	13° ¥ 35′01		max. Earth dist.	6283 Mar 30 02:00	9° Ƴ 27'29	20.77951 AU
				morning rise	6283 Apr 14 03:53	10° Y 20′04	
conjunction	6277 Mar 04 11:23	14° ¥ 30′52	-0°44'44	retrograde	6283 Jul 15 15:39	13° Y 27′20	
minimum elong	6277 Mar 04 11:23	14°) 30′52	0°44'44		0203 Jul 13 13.37	13 12/20	
max. Earth dist.			0 11 11	opposition	6283 Sep 30 22:58	13 γ 27 20 11° γ 28'46	-0°54'45
morning rise	6277 Mar 04 21:12	14°) 32′19	20.44637 AU	opposition min. Earth dist.	6283 Sep 30 22:58	11° Y 28'46	-0°54'45 18.80250 AU
_	6277 Mar 04 21:12 6277 Mar 20 03:41	14°) 32'19 15°) 26'37				11° Y 28'46	
retrograde	6277 Mar 20 03:41	15° ¥ 26'37		min. Earth dist. direct	6283 Sep 30 22:58 6283 Sep 30 07:37 6283 Dec 16 18:59	11° Υ 28'46 11° Υ 30'18 9° Υ 30'37	
retrograde opposition	6277 Mar 20 03:41 6277 Jun 20 00:51	15° ∺ 26'37 18° ∺ 36'36	20.44637 AU	min. Earth dist.	6283 Sep 30 22:58 6283 Sep 30 07:37	11° Υ 28'46 11° Υ 30'18	
opposition	6277 Mar 20 03:41 6277 Jun 20 00:51 6277 Sep 04 13:06	15°¥26'37 18°¥36'36 16°¥37'42	20.44637 AU -0°50'24	min. Earth dist. direct evening set	6283 Sep 30 22:58 6283 Sep 30 07:37 6283 Dec 16 18:59 6284 Mar 17 01:50	11° Y 28'46 11° Y 30'18 9° Y 30'37 12° Y 34'58	18.80250 AU
opposition min. Earth dist.	6277 Mar 20 03:41 6277 Jun 20 00:51 6277 Sep 04 13:06 6277 Sep 04 02:12	15° ¥ 26'37 18° ¥ 36'36 16° ¥ 37'42 16° ¥ 38'49	20.44637 AU	min. Earth dist. direct evening set	6283 Sep 30 22:58 6283 Sep 30 07:37 6283 Dec 16 18:59 6284 Mar 17 01:50 6284 Apr 01 17:37	11°Y28'46 11°Y30'18 9°Y30'37 12°Y34'58 13°Y29'25	18.80250 AU -0°49'24
opposition min. Earth dist. direct	6277 Mar 20 03:41 6277 Jun 20 00:51 6277 Sep 04 13:06 6277 Sep 04 02:12 6277 Nov 20 17:17	15°\£26'37 18°\£36'36 16°\£37'42 16°\£38'49 14°\£37'52	20.44637 AU -0°50'24	min. Earth dist. direct evening set conjunction minimum elong	6283 Sep 30 22:58 6283 Sep 30 07:37 6283 Dec 16 18:59 6284 Mar 17 01:50 6284 Apr 01 17:37 6284 Apr 01 17:37	11°Y28'46 11°Y30'18 9°Y30'37 12°Y34'58 13°Y29'25 13°Y29'25	18.80250 AU -0°49'24 0°49'25
opposition min. Earth dist.	6277 Mar 20 03:41 6277 Jun 20 00:51 6277 Sep 04 13:06 6277 Sep 04 02:12	15° ¥ 26'37 18° ¥ 36'36 16° ¥ 37'42 16° ¥ 38'49	20.44637 AU -0°50'24	min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	6283 Sep 30 22:58 6283 Sep 30 07:37 6283 Dec 16 18:59 6284 Mar 17 01:50 6284 Apr 01 17:37 6284 Apr 01 17:37 6284 Apr 02 09:56	11°Y28'46 11°Y30'18 9°Y30'37 12°Y34'58 13°Y29'25 13°Y29'25 13°Y31'48	18.80250 AU -0°49'24
opposition min. Earth dist. direct evening set	6277 Mar 20 03:41 6277 Jun 20 00:51 6277 Sep 04 13:06 6277 Sep 04 02:12 6277 Nov 20 17:17 6278 Feb 21 04:20	15°\£26'37 18°\£36'36 16°\£37'42 16°\£38'49 14°\£37'52 17°\£48'07	20.44637 AU -0°50'24 18.47839 AU	min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	6283 Sep 30 22:58 6283 Sep 30 07:37 6283 Dec 16 18:59 6284 Mar 17 01:50 6284 Apr 01 17:37 6284 Apr 01 17:37 6284 Apr 02 09:56 6284 Apr 17 10:09	11°Y28'46 11°Y30'18 9°Y30'37 12°Y34'58 13°Y29'25 13°Y29'25 13°Y31'48 14°Y23'59	18.80250 AU -0°49'24 0°49'25
opposition min. Earth dist. direct evening set conjunction	6277 Mar 20 03:41 6277 Jun 20 00:51 6277 Sep 04 13:06 6277 Sep 04 02:12 6277 Nov 20 17:17 6278 Feb 21 04:20 6278 Mar 08 20:55	15°\(\frac{1}{2}6'37\) 18°\(\frac{1}{3}6'36\) 16°\(\frac{1}{3}37'42\) 16°\(\frac{1}{3}38'49\) 14°\(\frac{1}{3}37'52\) 17°\(\frac{1}{4}48'07\)	20.44637 AU -0°50'24 18.47839 AU -0°46'10	min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	6283 Sep 30 22:58 6283 Sep 30 07:37 6283 Dec 16 18:59 6284 Mar 17 01:50 6284 Apr 01 17:37 6284 Apr 02 09:56 6284 Apr 17 10:09 6284 Jul 18 24:00	11°Y28'46 11°Y30'18 9°Y30'37 12°Y34'58 13°Y29'25 13°Y29'25 13°Y31'48 14°Y23'59 17°Y30'55	18.80250 AU -0°49'24 0°49'25 20.82430 AU
opposition min. Earth dist. direct evening set conjunction minimum elong	6277 Mar 20 03:41 6277 Jun 20 00:51 6277 Sep 04 13:06 6277 Sep 04 02:12 6277 Nov 20 17:17 6278 Feb 21 04:20 6278 Mar 08 20:55 6278 Mar 08 20:54	15°\(\pm\)26'37 18°\(\pm\)36'36 16°\(\pm\)37'42 16°\(\pm\)38'49 14°\(\pm\)37'52 17°\(\pm\)48'07 18°\(\pm\)43'43 18°\(\pm\)43'43	20.44637 AU -0°50'24 18.47839 AU -0°46'10 0°46'10	min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	6283 Sep 30 22:58 6283 Sep 30 07:37 6283 Dec 16 18:59 6284 Mar 17 01:50 6284 Apr 01 17:37 6284 Apr 02 09:56 6284 Apr 17 10:09 6284 Jul 18 24:00 6284 Oct 04 10:21	11°Y28'46 11°Y30'18 9°Y30'37 12°Y34'58 13°Y29'25 13°Y29'25 13°Y31'48 14°Y23'59 17°Y30'55 15°Y32'22	18.80250 AU -0°49'24 0°49'25 20.82430 AU -0°54'29
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	6277 Mar 20 03:41 6277 Jun 20 00:51 6277 Sep 04 13:06 6277 Sep 04 02:12 6277 Nov 20 17:17 6278 Feb 21 04:20 6278 Mar 08 20:55 6278 Mar 08 20:54 6278 Mar 09 08:23	15°\(\pma26'37\) 18°\(\pma36'36'36') 16°\(\pma37'42\) 16°\(\pma38'49') 14°\(\pma37'52) 17°\(\pma48'07') 18°\(\pma43'43') 18°\(\pma43'43') 18°\(\pma445'25')	20.44637 AU -0°50'24 18.47839 AU -0°46'10	min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	6283 Sep 30 22:58 6283 Sep 30 07:37 6283 Dec 16 18:59 6284 Mar 17 01:50 6284 Apr 01 17:37 6284 Apr 02 09:56 6284 Apr 17 10:09 6284 Jul 18 24:00 6284 Oct 04 10:21 6284 Oct 03 18:55	11°Y28'46 11°Y30'18 9°Y30'37 12°Y34'58 13°Y29'25 13°Y29'25 13°Y31'48 14°Y23'59 17°Y30'55 15°Y32'22 15°Y33'55	18.80250 AU -0°49'24 0°49'25 20.82430 AU
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	6277 Mar 20 03:41 6277 Jun 20 00:51 6277 Sep 04 13:06 6277 Sep 04 02:12 6277 Nov 20 17:17 6278 Feb 21 04:20 6278 Mar 08 20:55 6278 Mar 08 20:54 6278 Mar 09 08:23 6278 Mar 24 12:55	15°\(\pma26'37\) 18°\(\pma36'36\) 16°\(\pma37'42\) 16°\(\pma38'49\) 14°\(\pma37'52\) 17°\(\pma48'07\) 18°\(\pma43'43\) 18°\(\pma43'43\) 18°\(\pma43'43\) 18°\(\pma43'43\) 18°\(\pma43'43\) 18°\(\pma43'43\) 18°\(\pma43'43\)	20.44637 AU -0°50'24 18.47839 AU -0°46'10 0°46'10	min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	6283 Sep 30 22:58 6283 Sep 30 07:37 6283 Dec 16 18:59 6284 Mar 17 01:50 6284 Apr 01 17:37 6284 Apr 01 17:37 6284 Apr 02 09:56 6284 Apr 17 10:09 6284 Jul 18 24:00 6284 Oct 04 10:21 6284 Oct 03 18:55 6284 Dec 20 04:16	11°Y28'46 11°Y30'18 9°Y30'37 12°Y34'58 13°Y29'25 13°Y29'25 13°Y31'48 14°Y23'59 17°Y30'55 15°Y32'22 15°Y33'55 13°Y34'27	18.80250 AU -0°49'24 0°49'25 20.82430 AU -0°54'29
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	6277 Mar 20 03:41 6277 Jun 20 00:51 6277 Sep 04 13:06 6277 Sep 04 02:12 6277 Nov 20 17:17 6278 Feb 21 04:20 6278 Mar 08 20:55 6278 Mar 08 20:54 6278 Mar 09 08:23 6278 Mar 24 12:55 6278 Jun 24 11:31	15°\(\pma26'37\) 18°\(\pma36'36\) 16°\(\pma37'42\) 16°\(\pma38'49\) 14°\(\pma37'52\) 17°\(\pma448'07\) 18°\(\pma43'43\) 18°\(\pma443'43\) 18°\(\pma445'25\) 19°\(\pma39'15\) 22°\(\pma48'45\)	20.44637 AU -0°50'24 18.47839 AU -0°46'10 0°46'10 20.50964 AU	min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	6283 Sep 30 22:58 6283 Sep 30 07:37 6283 Dec 16 18:59 6284 Mar 17 01:50 6284 Apr 01 17:37 6284 Apr 02 09:56 6284 Apr 17 10:09 6284 Jul 18 24:00 6284 Oct 04 10:21 6284 Oct 03 18:55	11°Y28'46 11°Y30'18 9°Y30'37 12°Y34'58 13°Y29'25 13°Y29'25 13°Y31'48 14°Y23'59 17°Y30'55 15°Y32'22 15°Y33'55	18.80250 AU -0°49'24 0°49'25 20.82430 AU -0°54'29
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	6277 Mar 20 03:41 6277 Jun 20 00:51 6277 Sep 04 13:06 6277 Sep 04 02:12 6277 Nov 20 17:17 6278 Feb 21 04:20 6278 Mar 08 20:55 6278 Mar 08 20:54 6278 Mar 09 08:23 6278 Mar 24 12:55	15°\(\pma26'37\) 18°\(\pma36'36\) 16°\(\pma37'42\) 16°\(\pma38'49\) 14°\(\pma37'52\) 17°\(\pma48'07\) 18°\(\pma43'43\) 18°\(\pma43'43\) 18°\(\pma43'43\) 18°\(\pma43'43\) 18°\(\pma43'43\) 18°\(\pma43'43\) 18°\(\pma43'43\)	20.44637 AU -0°50'24 18.47839 AU -0°46'10 0°46'10 20.50964 AU	min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	6283 Sep 30 22:58 6283 Sep 30 07:37 6283 Dec 16 18:59 6284 Mar 17 01:50 6284 Apr 01 17:37 6284 Apr 01 17:37 6284 Apr 02 09:56 6284 Apr 17 10:09 6284 Jul 18 24:00 6284 Oct 04 10:21 6284 Oct 03 18:55 6284 Dec 20 04:16	11°Y28'46 11°Y30'18 9°Y30'37 12°Y34'58 13°Y29'25 13°Y29'25 13°Y31'48 14°Y23'59 17°Y30'55 15°Y32'22 15°Y33'55 13°Y34'27 16°Y38'00	18.80250 AU -0°49'24 0°49'25 20.82430 AU -0°54'29 18.84603 AU
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	6277 Mar 20 03:41 6277 Jun 20 00:51 6277 Sep 04 13:06 6277 Sep 04 02:12 6277 Nov 20 17:17 6278 Feb 21 04:20 6278 Mar 08 20:55 6278 Mar 08 20:54 6278 Mar 09 08:23 6278 Mar 24 12:55 6278 Jun 24 11:31	15°\(\pma26'37\) 18°\(\pma36'36\) 16°\(\pma37'42\) 16°\(\pma38'49\) 14°\(\pma37'52\) 17°\(\pma48'07\) 18°\(\pma43'43\) 18°\(\pma43'43\) 18°\(\pma43'43\) 18°\(\pma43'25\) 19°\(\pma39'15\) 22°\(\pma48'45\) 20°\(\pma49'58\)	20.44637 AU -0°50'24 18.47839 AU -0°46'10 0°46'10 20.50964 AU	min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	6283 Sep 30 22:58 6283 Sep 30 07:37 6283 Dec 16 18:59 6284 Mar 17 01:50 6284 Apr 01 17:37 6284 Apr 01 17:37 6284 Apr 02 09:56 6284 Apr 17 10:09 6284 Jul 18 24:00 6284 Oct 04 10:21 6284 Oct 03 18:55 6284 Dec 20 04:16	11°Y28'46 11°Y30'18 9°Y30'37 12°Y34'58 13°Y29'25 13°Y29'25 13°Y31'48 14°Y23'59 17°Y30'55 15°Y32'22 15°Y33'55 13°Y34'27	18.80250 AU -0°49'24 0°49'25 20.82430 AU -0°54'29 18.84603 AU
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	6277 Mar 20 03:41 6277 Jun 20 00:51 6277 Sep 04 13:06 6277 Sep 04 02:12 6277 Nov 20 17:17 6278 Feb 21 04:20 6278 Mar 08 20:55 6278 Mar 08 20:54 6278 Mar 09 08:23 6278 Mar 24 12:55 6278 Jun 24 11:31 6278 Sep 09 04:27	15°\(\pma26'37\) 18°\(\pma36'36\) 16°\(\pma37'42\) 16°\(\pma38'49\) 14°\(\pma37'52\) 17°\(\pma48'07\) 18°\(\pma43'43\) 18°\(\pma43'43\) 18°\(\pma43'43\) 18°\(\pma43'25\) 19°\(\pma39'15\) 22°\(\pma48'45\) 20°\(\pma49'58\)	20.44637 AU -0°50'24 18.47839 AU -0°46'10 0°46'10 20.50964 AU	min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6283 Sep 30 22:58 6283 Sep 30 07:37 6283 Dec 16 18:59 6284 Mar 17 01:50 6284 Apr 01 17:37 6284 Apr 02 09:56 6284 Apr 17 10:09 6284 Jul 18 24:00 6284 Oct 04 10:21 6284 Oct 03 18:55 6284 Dec 20 04:16 6285 Mar 21 07:29	11°Y28'46 11°Y30'18 9°Y30'37 12°Y34'58 13°Y29'25 13°Y29'25 13°Y31'48 14°Y23'59 17°Y30'55 15°Y32'22 15°Y33'55 13°Y34'27 16°Y38'00	18.80250 AU -0°49'24 0°49'25 20.82430 AU -0°54'29 18.84603 AU
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	6277 Mar 20 03:41 6277 Jun 20 00:51 6277 Sep 04 13:06 6277 Sep 04 02:12 6277 Nov 20 17:17 6278 Feb 21 04:20 6278 Mar 08 20:55 6278 Mar 08 20:54 6278 Mar 09 08:23 6278 Mar 24 12:55 6278 Jun 24 11:31 6278 Sep 09 04:27 6278 Sep 08 17:37	15°\(\frac{\chi}{26'37}\) 18°\(\frac{\chi}{36'36}\) 16°\(\frac{\chi}{37'42}\) 16°\(\frac{\chi}{38'49}\) 14°\(\frac{\chi}{37'52}\) 17°\(\frac{\chi}{48'07}\) 18°\(\frac{\chi}{43'43}\) 18°\(\frac{\chi}{43'43}\) 18°\(\frac{\chi}{43'43}\) 18°\(\frac{\chi}{43'43}\) 18°\(\frac{\chi}{43'43}\) 18°\(\frac{\chi}{43'43}\) 22°\(\frac{\chi}{48'45}\) 20°\(\frac{\chi}{51'04}\)	20.44637 AU -0°50'24 18.47839 AU -0°46'10 0°46'10 20.50964 AU	min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6283 Sep 30 22:58 6283 Sep 30 07:37 6283 Dec 16 18:59 6284 Mar 17 01:50 6284 Apr 01 17:37 6284 Apr 02 09:56 6284 Apr 17 10:09 6284 Jul 18 24:00 6284 Oct 04 10:21 6284 Oct 03 18:55 6284 Dec 20 04:16 6285 Mar 21 07:29	11°Y28'46 11°Y30'18 9°Y30'37 12°Y34'58 13°Y29'25 13°Y29'25 13°Y31'48 14°Y23'59 17°Y30'55 15°Y32'22 15°Y33'55 13°Y34'27 16°Y38'00 17°Y32'18 17°Y32'18	18.80250 AU -0°49'24 0°49'25 20.82430 AU -0°54'29 18.84603 AU
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	6277 Mar 20 03:41 6277 Jun 20 00:51 6277 Sep 04 13:06 6277 Sep 04 02:12 6277 Nov 20 17:17 6278 Feb 21 04:20 6278 Mar 08 20:55 6278 Mar 08 20:54 6278 Mar 09 08:23 6278 Mar 24 12:55 6278 Jun 24 11:31 6278 Sep 09 04:27 6278 Sep 08 17:37 6278 Nov 25 06:39	15°\(\frac{\chi}{26'37}\) 18°\(\frac{\chi}{36'36}\) 16°\(\frac{\chi}{37'42}\) 16°\(\frac{\chi}{38'49}\) 14°\(\frac{\chi}{37'52}\) 17°\(\frac{\chi}{48'07}\) 18°\(\frac{\chi}{43'43}\) 18°\(\frac{\chi}{43'43}\) 18°\(\frac{\chi}{43'43}\) 18°\(\frac{\chi}{43'43}\) 22°\(\frac{\chi}{48'45}\) 20°\(\frac{\chi}{51'04}\) 18°\(\frac{\chi}{50'30}\)	20.44637 AU -0°50'24 18.47839 AU -0°46'10 0°46'10 20.50964 AU	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	6283 Sep 30 22:58 6283 Sep 30 07:37 6283 Dec 16 18:59 6284 Mar 17 01:50 6284 Apr 01 17:37 6284 Apr 02 09:56 6284 Apr 17 10:09 6284 Jul 18 24:00 6284 Oct 04 10:21 6284 Oct 03 18:55 6284 Dec 20 04:16 6285 Mar 21 07:29 6285 Apr 05 23:13 6285 Apr 05 23:13 6285 Apr 06 15:25	11°Y28'46 11°Y30'18 9°Y30'37 12°Y34'58 13°Y29'25 13°Y29'25 13°Y31'48 14°Y23'59 17°Y30'55 15°Y32'22 15°Y33'55 13°Y34'27 16°Y38'00 17°Y32'18 17°Y32'18	18.80250 AU -0°49'24 0°49'25 20.82430 AU -0°54'29 18.84603 AU -0°49'04 0°49'04
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6277 Mar 20 03:41 6277 Jun 20 00:51 6277 Sep 04 13:06 6277 Sep 04 02:12 6277 Nov 20 17:17 6278 Feb 21 04:20 6278 Mar 08 20:55 6278 Mar 08 20:54 6278 Mar 09 08:23 6278 Mar 24 12:55 6278 Jun 24 11:31 6278 Sep 09 04:27 6278 Sep 08 17:37 6278 Nov 25 06:39 6279 Feb 25 13:40	15°\(\frac{\chi}{26'37}\) 18°\(\frac{\chi}{36'36}\) 16°\(\frac{\chi}{37'42}\) 16°\(\frac{\chi}{38'49}\) 14°\(\frac{\chi}{37'52}\) 17°\(\frac{\chi}{48'07}\) 18°\(\frac{\chi}{43'43}\) 18°\(\frac{\chi}{43'43}\) 18°\(\frac{\chi}{43'43}\) 18°\(\frac{\chi}{43'43}\) 22°\(\frac{\chi}{48'45}\) 20°\(\frac{\chi}{49'58}\) 20°\(\frac{\chi}{50'30}\) 21°\(\frac{\chi}{59'41}\)	20.44637 AU -0°50'24 18.47839 AU -0°46'10 0°46'10 20.50964 AU -0°51'50 18.54042 AU	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. morning rise	6283 Sep 30 22:58 6283 Sep 30 07:37 6283 Dec 16 18:59 6284 Mar 17 01:50 6284 Apr 01 17:37 6284 Apr 02 09:56 6284 Apr 17 10:09 6284 Jul 18 24:00 6284 Oct 04 10:21 6284 Oct 03 18:55 6284 Dec 20 04:16 6285 Mar 21 07:29 6285 Apr 05 23:13 6285 Apr 05 23:13 6285 Apr 06 15:25 6285 Apr 06 15:25 6285 Apr 21 16:10	11°Y28'46 11°Y30'18 9°Y30'37 12°Y34'58 13°Y29'25 13°Y29'25 13°Y31'48 14°Y23'59 17°Y30'55 15°Y32'22 15°Y33'55 13°Y34'27 16°Y38'00 17°Y32'18 17°Y32'18 17°Y34'40 18°Y26'47	18.80250 AU -0°49'24 0°49'25 20.82430 AU -0°54'29 18.84603 AU -0°49'04 0°49'04
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6277 Mar 20 03:41 6277 Jun 20 00:51 6277 Sep 04 13:06 6277 Sep 04 02:12 6277 Nov 20 17:17 6278 Feb 21 04:20 6278 Mar 08 20:55 6278 Mar 08 20:54 6278 Mar 09 08:23 6278 Mar 24 12:55 6278 Jun 24 11:31 6278 Sep 09 04:27 6278 Sep 08 17:37 6278 Nov 25 06:39 6279 Feb 25 13:40	15°\text{\text{\text{26'37}}} 18°\text{\text{\text{36'36}}} 16°\text{\text{\text{\text{37'42}}}} 16°\text{\text{\text{38'49}}} 14°\text{\text{\text{37'52}}} 17°\text{\text{\text{48'07}}} 18°\text{\text{\text{43'43}}} 18°\text{\text{\text{43'43}}} 18°\text{\text{\text{45'25}}} 19°\text{\text{\text{39'15}}} 22°\text{\text{\text{48'45}}} 20°\text{\text{\text{\text{49'58}}}} 20°\text{\text{\text{51'04}}} 18°\text{\text{\text{50'30}}} 21°\text{\text{\text{55'03}}}	20.44637 AU -0°50'24 18.47839 AU -0°46'10 0°46'10 20.50964 AU -0°51'50 18.54042 AU	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. morning rise retrograde	6283 Sep 30 22:58 6283 Sep 30 07:37 6283 Dec 16 18:59 6284 Mar 17 01:50 6284 Apr 01 17:37 6284 Apr 02 09:56 6284 Apr 17 10:09 6284 Jul 18 24:00 6284 Oct 04 10:21 6284 Oct 03 18:55 6284 Dec 20 04:16 6285 Mar 21 07:29 6285 Apr 05 23:13 6285 Apr 05 23:13 6285 Apr 06 15:25 6285 Apr 21 16:10 6285 Jul 23 09:29	11°Y28'46 11°Y30'18 9°Y30'37 12°Y34'58 13°Y29'25 13°Y29'25 13°Y31'48 14°Y23'59 17°Y30'55 15°Y32'22 15°Y33'55 13°Y34'27 16°Y38'00 17°Y32'18 17°Y32'18 17°Y34'40 18°Y26'47 21°Y33'26	18.80250 AU -0°49'24 0°49'25 20.82430 AU -0°54'29 18.84603 AU -0°49'04 0°49'04 20.86661 AU
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	6277 Mar 20 03:41 6277 Jun 20 00:51 6277 Sep 04 13:06 6277 Sep 04 02:12 6277 Nov 20 17:17 6278 Feb 21 04:20 6278 Mar 08 20:55 6278 Mar 08 20:54 6278 Mar 09 08:23 6278 Mar 24 12:55 6278 Jun 24 11:31 6278 Sep 09 04:27 6278 Sep 09 04:27 6278 Nov 25 06:39 6279 Feb 25 13:40 6279 Mar 13 05:50 6279 Mar 13 05:50	15°\(\frac{\chi}{26'37}\) 18°\(\frac{\chi}{36'36}\) 16°\(\frac{\chi}{37'42}\) 16°\(\frac{\chi}{38'49}\) 14°\(\frac{\chi}{37'52}\) 17°\(\frac{\chi}{48'07}\) 18°\(\frac{\chi}{43'43}\) 18°\(\frac{\chi}{43'43}\) 18°\(\frac{\chi}{45'25}\) 19°\(\frac{\chi}{39'15}\) 22°\(\frac{\chi}{48'45}\) 20°\(\frac{\chi}{55'03}\) 21°\(\frac{\chi}{55'03}\) 22°\(\frac{\chi}{55'03}\)	20.44637 AU -0°50'24 18.47839 AU -0°46'10 0°46'10 20.50964 AU -0°51'50 18.54042 AU -0°47'21 0°47'20	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. morning rise retrograde opposition	6283 Sep 30 22:58 6283 Sep 30 07:37 6283 Dec 16 18:59 6284 Mar 17 01:50 6284 Apr 01 17:37 6284 Apr 02 09:56 6284 Apr 17 10:09 6284 Apr 17 10:09 6284 Jul 18 24:00 6284 Oct 04 10:21 6284 Oct 03 18:55 6284 Dec 20 04:16 6285 Mar 21 07:29 6285 Apr 05 23:13 6285 Apr 05 23:13 6285 Apr 06 15:25 6285 Apr 21 16:10 6285 Jul 23 09:29 6285 Oct 08 21:19	11°Y28'46 11°Y30'18 9°Y30'37 12°Y34'58 13°Y29'25 13°Y29'25 13°Y31'48 14°Y23'59 17°Y30'55 15°Y32'22 15°Y33'55 13°Y34'27 16°Y38'00 17°Y32'18 17°Y32'18 17°Y32'40 18°Y26'47 21°Y33'26 19°Y34'54	18.80250 AU -0°49'24 0°49'25 20.82430 AU -0°54'29 18.84603 AU -0°49'04 0°49'04 20.86661 AU
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6277 Mar 20 03:41 6277 Jun 20 00:51 6277 Sep 04 13:06 6277 Sep 04 02:12 6277 Nov 20 17:17 6278 Feb 21 04:20 6278 Mar 08 20:55 6278 Mar 08 20:54 6278 Mar 09 08:23 6278 Mar 24 12:55 6278 Jun 24 11:31 6278 Sep 09 04:27 6278 Sep 08 17:37 6278 Nov 25 06:39 6279 Feb 25 13:40	15°\(\frac{\chi}{26'37}\) 18°\(\frac{\chi}{36'36}\) 16°\(\frac{\chi}{37'42}\) 16°\(\frac{\chi}{38'49}\) 14°\(\frac{\chi}{37'52}\) 17°\(\frac{\chi}{48'07}\) 18°\(\frac{\chi}{43'43}\) 18°\(\frac{\chi}{43'43}\) 18°\(\frac{\chi}{45'25}\) 19°\(\frac{\chi}{39'15}\) 22°\(\frac{\chi}{48'45}\) 20°\(\frac{\chi}{55'03}\) 21°\(\frac{\chi}{55'03}\) 22°\(\frac{\chi}{55'03}\)	20.44637 AU -0°50'24 18.47839 AU -0°46'10 0°46'10 20.50964 AU -0°51'50 18.54042 AU	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. morning rise retrograde	6283 Sep 30 22:58 6283 Sep 30 07:37 6283 Dec 16 18:59 6284 Mar 17 01:50 6284 Apr 01 17:37 6284 Apr 02 09:56 6284 Apr 17 10:09 6284 Jul 18 24:00 6284 Oct 04 10:21 6284 Oct 03 18:55 6284 Dec 20 04:16 6285 Mar 21 07:29 6285 Apr 05 23:13 6285 Apr 05 23:13 6285 Apr 06 15:25 6285 Apr 21 16:10 6285 Jul 23 09:29	11°Y28'46 11°Y30'18 9°Y30'37 12°Y34'58 13°Y29'25 13°Y29'25 13°Y31'48 14°Y23'59 17°Y30'55 15°Y32'22 15°Y33'55 13°Y34'27 16°Y38'00 17°Y32'18 17°Y32'18 17°Y32'40 18°Y26'47 21°Y33'26 19°Y34'54	18.80250 AU -0°49'24 0°49'25 20.82430 AU -0°54'29 18.84603 AU -0°49'04 0°49'04 20.86661 AU

evening set	6286 Mar 25 12:29	20° Ƴ 40′02		conjunction minimum elong	6292 May 03 09:25 6292 May 03 09:25	15° 8 33'06	
conjunction	6286 Apr 10 04:29	21° Y ′34'14 -0°4	48'28	max. Earth dist.	6292 May 04 04:33	15° 8 35'51	21.06639 AU
minimum elong	6286 Apr 10 04:29	21° Y '34'14 0°4	48'29	morning rise	6292 May 19 05:49	16° 8 27'21	
max. Earth dist.	6286 Apr 10 22:26	21° Y '36'50 20.	.90619 AU	retrograde	6292 Aug 20 18:36	19° 8 33'11	
morning rise	6286 Apr 25 21:40	22° Y ′28'37		opposition	6292 Nov 06 15:26	17° 8 34'47	-0°43'18
retrograde	6286 Jul 27 17:35	25° Ƴ 35′02		min. Earth dist.	6292 Nov 05 21:53	17° 8 36'32	19.07207 AU
opposition	6286 Oct 13 07:54	23° Y '36'32 -0°	253'09	direct	6293 Jan 21 18:24	15° 8 38'25	
min. Earth dist.	6286 Oct 12 14:57	23° Y '38'14 18.	.92522 AU	evening set	6293 Apr 21 19:40	18° 8 37'46	
direct	6286 Dec 28 22:31	21° Y 39'06					
evening set	6287 Mar 29 17:23	24° Ƴ 41'14		conjunction	6293 May 07 14:14	19° 8 31'41	-0°38'09
				minimum elong	6293 May 07 14:14	19° 8 31'41	
conjunction	6287 Apr 14 09:30	25° Y 35′20 -0°₄		max. Earth dist.	6293 May 08 07:57	_	21.07572 AU
minimum elong	6287 Apr 14 09:30		247'40	morning rise	6293 May 23 11:29	20° 8 25'58	
max. Earth dist.	6287 Apr 15 03:06	25° Y 37'53 20.5	.94290 AU	retrograde	6293 Aug 25 03:39	23° 8 31'49	
morning rise	6287 Apr 30 03:15	26° Y 29'39		opposition	6293 Nov 10 23:52	21° 8 33'20	
retrograde	6287 Aug 01 02:50	29° Ƴ 35'52	5010 6	min. Earth dist.	6293 Nov 10 06:31		19.07852 AU
opposition	6287 Oct 17 17:52	27° Y 37'25 -0°:		direct	6294 Jan 26 00:34	19° 8 36'59	
min. Earth dist.	6287 Oct 16 23:55	27° Y 39'12 18.5 25° Y 40'13	.96036 AU	evening set	6294 Apr 25 23:48	22° 8 36'03	
direct	6288 Jan 02 06:08 6288 Apr 01 21:55	25° Υ 40'13 28° Υ 41'45			(204 M 11 10-07	23° 8 30'01	0925152
evening set	6288 Apr 01 21:55	28" 41 45		conjunction	6294 May 11 19:07	23° 8 30'01	
agniumation	6200 Apr. 17 14:27	29° Ƴ 35'46 -0°₄	246126	minimum elong max. Earth dist.	6294 May 11 19:07 6294 May 12 13:30	_	0°33°33 21.07927 AU
conjunction minimum elong	6288 Apr 17 14:27 6288 Apr 17 14:27		46'37	morning rise	6294 May 27 16:58	24° 8 24'21	21.07927 AU
max. Earth dist.	6288 Apr 18 09:28	29° Υ 38'31 20.		retrograde	6294 Aug 29 10:07	27° 8 30'14	
max. Earth dist.	6288 Apr 24 14:07	0°8	.)1022 AO	opposition	6294 Nov 15 08:00	25° 8 31'37	-0°38'16
morning rise	6288 May 03 08:33	0° 8 30'03		min. Earth dist.	6294 Nov 14 15:14	_	19.07921 AU
retrograde	6288 Aug 04 10:24	3° 8 36'06		direct	6295 Jan 30 07:02	23° 8 35'16	17.07721 AC
min. Earth dist.	6288 Oct 20 09:45	1° 8 39'28 18.	99178 AU	evening set	6295 Apr 30 04:11	26° 8 34'07	
opposition	6288 Oct 21 03:35	1° 8 37'42 -0°5		evening sec	0250 Tipi 50 0	20 05.07	
оррозиюн	6288 Dec 08 09:48	30°R℃	.,	conjunction	6295 May 16 00:02	27° 8 28'06	-0°33'25
direct	6289 Jan 05 14:30	29° Ƴ 40'44		minimum elong	6295 May 16 00:02	27° 8 28'06	
	6289 Feb 02 05:16	0°8		max. Earth dist.	6295 May 16 17:01	_	21.07744 AU
evening set	6289 Apr 06 02:21	2° 8 41'42		morning rise	6295 May 31 22:50	28° 8 22'31	
J	•			C	6295 Jul 02 18:36	$0^{\circ}\Pi$	
conjunction	6289 Apr 21 19:04	3° 8 35'40 -0°4	45'19	retrograde	6295 Sep 02 18:28	1° Ⅱ 28'29	
minimum elong	6289 Apr 21 19:04	3° 8 35'40 0°4	45'22		6295 Nov 06 21:26	30°R₩	
max. Earth dist.	6289 Apr 22 13:25	3° 8 38'19 21.	.00574 AU	opposition	6295 Nov 19 15:44	29° 8 29'43	-0°35'28
morning rise	6289 May 07 13:48	4° 8 29'54		min. Earth dist.	6295 Nov 18 23:23	29° 8 31'21	19.07487 AU
retrograde	6289 Aug 08 19:38	7° 8 35'52		direct	6296 Feb 03 12:44	27° 8 33'17	
opposition	6289 Oct 25 12:58	5° 8 37'29 -0°4			6296 Apr 23 14:33	Π °0	
min. Earth dist.	6289 Oct 24 18:32	5° 8 39'19 19.	.01925 AU	evening set	6296 May 03 08:32	0° Ⅱ 32′00	
direct	6290 Jan 09 21:24	3° 8 40'43					
evening set	6290 Apr 10 06:39	6° 8 41'12		conjunction	6296 May 19 05:12	1° Ⅲ 26′04	
				minimum elong	6296 May 19 05:12	1° Ⅲ 26′04	
conjunction	6290 Apr 25 23:52	7° 8 35'08 -0° ²		max. Earth dist.	6296 May 19 22:52		21.07065 AU
minimum elong	6290 Apr 25 23:52	7°835'08 0°4		morning rise	6296 Jun 04 04:37	2° Ⅱ 20'33	
max. Earth dist.	6290 Apr 26 19:21	7° 8 37'56 21.	.03095 AU	retrograde	6296 Sep 06 01:37	5°Ⅲ26'37 3°Ⅲ27'43	0922120
morning rise	6290 May 11 19:01	8° と 29'22 11° と 35'15		opposition min. Earth dist.	6296 Nov 22 23:22 6296 Nov 22 07:25		19.06579 AU
retrograde opposition	6290 Aug 13 02:47 6290 Oct 29 22:06	9° 8 36'53 -0°4	247'20	direct	6297 Feb 06 18:45	3°Щ2919 1°Щ31'13	19.065/9 AU
min. Earth dist.	6290 Oct 29 22:00 6290 Oct 29 04:01	9° 8 38'42 19.		evening set	6297 May 07 13:00	4° Ⅱ 29'52	
direct	6291 Jan 14 05:02	7° 8 40'19	.04211 AO	evening set	0277 Way 07 13.00	T H2/32	
evening set	6291 Apr 14 10:58	10° 8 40'21		conjunction	6297 May 23 10:12	5° Ⅱ 24'01	-0°28'03
evening set	02)174pt 14 10.30	10 04021		minimum elong	6297 May 23 10:12	5° Ⅱ 24'01	
conjunction	6291 Apr 30 04:30	11° 8 34'15 -0°4	242'08	max. Earth dist.	6297 May 24 02:34		21.05954 AU
minimum elong	6291 Apr 30 04:30	11° 8 34'15 0°4		morning rise	6297 Jun 08 10:35	6° Ⅱ 18'37	21.00901110
max. Earth dist.	6291 Apr 30 22:56	11° 8 36'54 21.		retrograde	6297 Sep 10 09:41	9° Ⅱ 24'52	
morning rise	6291 May 16 00:26	12° 8 28'29		opposition	6297 Nov 27 06:57	7° Ⅱ 25'48	-0°29'23
U -	6291 Jul 10 16:35	15° 8		min. Earth dist.	6297 Nov 26 15:20		19.05270 AU
retrograde	6291 Aug 17 12:10	15° 8 34'21		direct	6298 Feb 11 00:01	5° Ⅱ 29'13	
=	6291 Sep 25 03:55	15° ₹ 8		evening set	6298 May 11 17:42	8° Ⅲ 27'54	
opposition	6291 Nov 03 06:57	13° 8 35'59 -0°4	245'31	-	-		
min. Earth dist.	6291 Nov 02 12:47	13° 8 37'47 19.	.05996 AU	conjunction	6298 May 27 15:48	9° Ⅱ 22'09	-0°25'10
direct	6292 Jan 18 11:28	11° 8 39'31		minimum elong	6298 May 27 15:48	9°Ⅱ22'09	0°25'12
evening set	6292 Apr 17 15:16	14° 8 39'12		max. Earth dist.	6298 May 28 08:51		21.04447 AU
	6292 Apr 23 18:25	15° 8		morning rise	6298 Jun 12 16:52	10° Ⅱ 16′52	

retrograde	6298 Sep 14 17:43	13° Ⅲ 23'20	behind sun begin	6304 Jun 21 03:38	3° 5 23'53
opposition	6298 Dec 01 14:20	11° II 24'08 -0°26'06	behind sun end	6304 Jun 21 16:23	3° © 25'40
min. Earth dist.	6298 Nov 30 23:03	11° I I25'40 19.03573 А		6304 Jun 21 22:53	3°\$26'37 20.87702 AU
direct	6299 Feb 15 05:47	9°II27'29	morning rise	6304 Jul 07 16:19	4°\$20'31
evening set	6299 May 15 22:47	12° I I26'16	retrograde	6304 Oct 10 02:54	7°\$29'22
evening sec	02)) May 15 22.17	12 120 10	opposition	6304 Dec 26 12:45	5°\$29'35 -0°04'14
conjunction	6299 May 31 21:32	13° I I20′39 -0°22′09	min. Earth dist.	6304 Dec 26 01:50	5°\$30'42 18.85653 AU
minimum elong	6299 May 31 21:32	13° II 20'39 0°22'11	direct	6305 Mar 11 15:27	3° © 32'19
max. Earth dist.	6299 Jun 01 13:05	13° Ц 22'52 21.02576 A		6305 Jun 09 15:10	6°\$33'23
morning rise	6299 Jun 16 23:38	14° Ⅱ 15'30			
retrograde	6299 Sep 19 02:15	17° Ⅲ 22'15	conjunction	6305 Jun 25 19:01	7°\$28'51 -0°02'10
opposition	6299 Dec 05 21:47	15° Ⅲ 22'56 -0°22'42	minimum elong	6305 Jun 25 19:02	7°\$28'52 0°02'13
min. Earth dist.	6299 Dec 05 07:04	15° Ⅱ 24'25 19.01520 A	J behind sun begin	6305 Jun 25 12:22	7° © 27'56
direct	6300 Feb 19 10:43	13° Ⅱ 26′12	behind sun end	6305 Jun 26 01:41	7° 5 29'47
evening set	6300 May 20 04:06	16° Ⅲ 25′10	max. Earth dist.	6305 Jun 26 05:33	7° © 30'22 20.83498 AU
Č	,		morning rise	6305 Jul 12 02:23	8°\$24'50
conjunction	6300 Jun 05 03:48	17° Ⅱ 19'42 -0°19'01	retrograde	6305 Oct 14 14:13	11° © 34'12
minimum elong	6300 Jun 05 03:47	17° Ⅱ 19'42 0°19'03	opposition	6305 Dec 30 21:25	9°\$34'16 -0°00'21
max. Earth dist.	6300 Jun 05 19:53	17° Ц 22'00 21.00337 А		6305 Dec 30 12:07	9°€35'13 18.81217 AU
morning rise	6300 Jun 21 06:34	18° Ⅱ 14'42	asc. node	6306 Feb 02 12:30	8°\$18'19
retrograde	6300 Sep 23 10:48	21° Ⅱ 21'46	direct	6306 Mar 15 21:10	7°\$36'47
opposition	6300 Dec 10 05:12	19° Ⅲ 22'22 -0°19'11	evening set	6306 Jun 14 00:09	10°538'27
min. Earth dist.	6300 Dec 09 14:50	19° Ⅲ 23'49 18.99096 A			
direct	6301 Feb 23 16:26	17° Ⅱ 25'34	conjunction	6306 Jun 30 05:06	11°534'09 0°01'28
evening set	6301 May 24 09:59	20° Ⅲ 24'48	minimum elong	6306 Jun 30 05:05	11°534'09 0°01'25
Č	,		behind sun begin	6306 Jun 29 22:25	11° © 33'13
conjunction	6301 Jun 09 10:22	21° Ⅱ 19'29 -0°15'47	behind sun end	6306 Jun 30 11:45	11° © 35'05
minimum elong	6301 Jun 09 10:22	21° II 19'29 0°15'50	max. Earth dist.	6306 Jun 30 15:19	11°535'37 20.78825 AU
behind sun begin	6301 Jun 09 09:20	21° Ⅱ 19′20	morning rise	6306 Jul 16 13:09	12°930'21
behind sun end	6301 Jun 09 11:25	21° Ⅱ 19′38	retrograde	6306 Oct 19 02:09	15° © 40'14
max. Earth dist.	6301 Jun 10 00:48	21° Ц 21'33 20.97749 А	-	6307 Jan 04 06:07	13°540'07 0°03'33
morning rise	6301 Jun 25 14:12	22° Ⅱ 14'39	min. Earth dist.	6307 Jan 03 21:41	13°5540'59 18.76309 AU
retrograde	6301 Sep 27 20:23	25° Ⅲ 22′07	direct	6307 Mar 20 05:22	11°5542'23
opposition	6301 Dec 14 12:52	23° Ⅲ 22'36 -0°15'34	evening set	6307 Jun 18 09:57	14°5544'41
min. Earth dist.	6301 Dec 13 23:19	23° Ц 23'58 18.96330 A	•		
direct	6302 Feb 27 21:26	21° Ⅲ 25'43	conjunction	6307 Jul 04 15:39	15°\$40'38 0°05'01
evening set	6302 May 28 16:11	24° Ⅱ 25'18	minimum elong	6307 Jul 04 15:39	15°\$40'38 0°04'59
Č	,		behind sun begin	6307 Jul 04 09:09	15°\$39'43
conjunction	6302 Jun 13 17:35	25° Ⅱ 20'10 -0°12'29	behind sun end	6307 Jul 04 22:08	15° © 41'33
minimum elong	6302 Jun 13 17:36	25° Ⅲ 20′10 0°12′31	max. Earth dist.	6307 Jul 04 23:15	15°5641'43 20.73707 AU
behind sun begin	6302 Jun 13 13:18	25° Ⅱ 19'34	morning rise	6307 Jul 21 00:44	16°937'04
behind sun end	6302 Jun 13 21:53	25° Ⅱ 20'46	retrograde	6307 Oct 23 14:01	19° 5 47'29
max. Earth dist.	6302 Jun 14 08:27	25° Ⅱ 22'17 20.94797 A	· ·	6308 Jan 08 15:16	17°\$47'09 0°07'28
morning rise	6302 Jun 29 22:10	26° Ⅱ 15'31	min. Earth dist.	6308 Jan 08 08:40	17°5647'50 18.70985 AU
retrograde	6302 Oct 02 05:46	29° Ⅱ 23'24	direct	6308 Mar 23 11:49	15° © 49'05
opposition	6302 Dec 18 20:38	27° Ⅲ 23'49 -0°11'52	evening set	6308 Jun 21 20:09	18°952'05
min. Earth dist.	6302 Dec 18 07:37	27° Ⅱ 25'08 18.93179 A	-		
direct	6303 Mar 04 03:22	25° Ⅱ 26′50	conjunction	6308 Jul 08 02:55	19°5548'17 0°08'32
evening set	6303 Jun 01 23:17	28° Ⅱ 26'51	minimum elong	6308 Jul 08 02:54	19°5548'17 0°08'29
Č			behind sun begin	6308 Jul 07 21:04	19° 5 47'27
conjunction	6303 Jun 18 01:24	29° Ⅱ 21'54 -0°09'06	behind sun end	6308 Jul 08 08:44	19° 5 49'06
minimum elong	6303 Jun 18 01:24	29° Ⅱ 21'54 0°09'09	max. Earth dist.	6308 Jul 08 10:19	19°549'20 20.68193 AU
behind sun begin	6303 Jun 17 19:46	29° Ⅲ 21'07	morning rise	6308 Jul 24 12:37	20°\$44'57
behind sun end	6303 Jun 18 07:02	29° Ⅱ 22'41	retrograde	6308 Oct 27 02:52	23° © 55'55
max. Earth dist.	6303 Jun 18 14:14	29° Ⅱ 23'44 20.91461 A	•	6309 Jan 12 00:35	21°\$55'21 0°11'22
	6303 Jun 29 03:26	0°95	min. Earth dist.	6309 Jan 11 18:36	21°955'58 18.65296 AU
morning rise	6303 Jul 04 07:01	0°917'26	direct	6309 Mar 27 21:01	19°956'57
retrograde	6303 Oct 06 16:18	3°\$25'48	evening set	6309 Jun 26 07:17	23°900'41
opposition	6303 Dec 23 04:31	1°526'07 -0°08'05	. <u> </u>		
min. Earth dist.	6303 Dec 22 16:50	1°527'18 18.89638 A	J conjunction	6309 Jul 12 14:44	23°\$57'08 0°12'01
	6304 Jan 31 19:11	30°RII	minimum elong	6309 Jul 12 14:44	23°\$57'08 0°12'00
direct	6304 Mar 07 08:39	29°II29'00	behind sun begin	6309 Jul 12 10:11	23°S56'30
	0, 00.57		behind sun end	6309 Jul 12 19:17	23° © 57'47
	6304 Apr 11 03:22	()*50			
evening set	6304 Apr 11 03:22 6304 Jun 05 06:52	0°ତ 2°ତ29'31			
evening set	6304 Apr 11 03:22 6304 Jun 05 06:52	0°95 2°9529'31	max. Earth dist.	6309 Jul 12 19:44	23°957'51 20.62366 AU
	6304 Jun 05 06:52	2°\$29'31	max. Earth dist. morning rise	6309 Jul 12 19:44 6309 Jul 29 01:27	23°\$57'51 20.62366 AU 24°\$54'03
evening set conjunction minimum elong	•		max. Earth dist.	6309 Jul 12 19:44	23°957'51 20.62366 AU

min. Earth dist.	6310 Jan 16 06:06		18.59345 AU	direct	6316 Apr 25 19:48	19° Ω 32'11	
direct	6310 Apr 01 04:48	24°506'01 27°510'32		evening set	6316 Jul 26 11:52	22° Ω 42'45	
evening set	6310 Jun 30 18:58	2/-910/32		agniumation	6216 Aug 12 01:05	23° Ω 41'15	0°24'10
aaniumatian	6310 Jul 17 03:30	28° © 07'16	0°15'28	conjunction minimum elong	6316 Aug 12 01:05	23° Ω 41'15	0°34'09
conjunction minimum elong	6310 Jul 17 03:30	28°907'16	0°15'26	max. Earth dist.	6316 Aug 12 01:05 6316 Aug 11 22:28		20.17838 AU
behind sun begin	6310 Jul 17 03:50	28°907'02	0 13 20	morning rise	6316 Aug 28 16:09	23 δ (40 32 24° Ω 40'03	20.17636 AU
behind sun end	6310 Jul 17 01:31	28°907'30		Č	6316 Dec 01 02:59	24 δ 240 03 27° Ω 56'13	
max. Earth dist.	6310 Jul 17 08:23		20.56299 AU	retrograde opposition	6317 Feb 14 18:53	25° Ω 54'07	0°39'24
morning rise	6310 Aug 02 14:49	28 3 07 38 29° 5 04'27	20.30299 AU	min. Earth dist.	6317 Feb 14 18:33	25° Ω 53'51	
morning risc	6310 Aug 19 12:40	0°Ω		direct	6317 Apr 30 09:36	23° Ω 53'02	10.14304 AC
retrograde	6310 Nov 05 05:18	2° Ω 16'34		evening set	6317 Jul 31 06:17	27° Ω 04'48	
opposition	6311 Jan 20 20:17	0°Ω15'30	0°19'02	evening set	0317 341 31 00.17	27 000440	
min. Earth dist.	6311 Jan 20 16:29		18.53175 AU	conjunction	6317 Aug 16 20:01	28° Ω 03'36	0°36'46
mm. Earth dist.	6311 Jan 27 01:26	30°Rூ	10.33173710	minimum elong	6317 Aug 16 20:01	28° Ω 03'36	0°36'45
direct	6311 Apr 05 14:29	28°916'23		max. Earth dist.	6317 Aug 16 15:06		20.11346 AU
	6311 Jun 09 17:59	0° Ω		morning rise	6317 Sep 02 11:37	29° Ω 02'41	20.110 10 110
evening set	6311 Jul 05 07:41	1° Ω 21'46		morning rise	6317 Sep 19 13:03	0°m	
e venning see	0511341 05 07.11	1 0021 10		retrograde	6317 Dec 05 20:07	2° mp 19'34	
conjunction	6311 Jul 21 16:52	2°Ω18'47	0°18'52	opposition	6318 Feb 19 08:52	0° mp 17'22	0°42'12
minimum elong	6311 Jul 21 16:52	2° Ω 18'47		min. Earth dist.	6318 Feb 19 13:44		18.08087 AU
max. Earth dist.	6311 Jul 21 19:22		20.50048 AU	mm. Darm dist.	6318 Feb 26 04:14	30°RΩ	10.00007 110
morning rise	6311 Aug 07 05:04	3° Ω 16'13	20.30040710	direct	6318 May 04 22:27	28° Ω 15'58	
retrograde	6311 Nov 09 19:03	6°Ω28'57		uncet	6318 Jul 08 18:24	0° m	
opposition	6312 Jan 25 06:41	4° Ω 27'39	0°22'45	evening set	6318 Aug 05 01:38	1° mp 28'56	
min. Earth dist.	6312 Jan 25 04:41		18.46864 AU	evening sec	031071 ug 03 01.30	1 11/2030	
direct	6312 Apr 08 23:36	2°Ω28'10	10.40004 /10	conjunction	6318 Aug 21 16:07	2° m 28'02	0°39'11
evening set	6312 Jul 08 21:00	5° Ω 34'29		minimum elong	6318 Aug 21 16:06	2° m/28'02	0°39'10
evening set	0312341 00 21.00	3 003427		max. Earth dist.	6318 Aug 21 10:14		20.04829 AU
conjunction	6312 Jul 25 07:12	6° Ω 31'47	0°22'10	morning rise	6318 Sep 07 08:01	3° m/27'23	20.01029710
minimum elong	6312 Jul 25 07:11	6°Ω31'47	0°22'08	retrograde	6318 Dec 10 15:44	6° Mp 44'59	
max. Earth dist.	6312 Jul 25 09:37		20.43682 AU	opposition	6319 Feb 23 23:29	4° Mp 42'40	0°44'47
morning rise	6312 Aug 10 19:55	7° Ω 29'29	20.43002 / 10	min. Earth dist.	6319 Feb 24 04:46		18.01546 AU
retrograde	6312 Nov 13 09:42	10°Ω42'51		direct	6319 May 09 14:35	2° Mp 40'56	10.01340710
opposition	6313 Jan 28 17:33	8°Ω41'20	0°26'22	evening set	6319 Aug 09 22:06	5° m 55'06	
min. Earth dist.	6313 Jan 28 15:44		18.40455 AU	evening set	031) Hug 07 22.00	3 m/33 00	
direct	6313 Apr 13 10:10	6° Ω 41'31	10.10122110	conjunction	6319 Aug 26 12:59	6° ₪ 54'31	0°41'23
evening set	6313 Jul 13 11:16	9° Ω 48'48		minimum elong	6319 Aug 26 12:59	6° Mp 54'31	0°41'23
evening set	0313 341 13 11.10) 0. 1010		max. Earth dist.	6319 Aug 26 04:50		19.98258 AU
conjunction	6313 Jul 29 22:07	10° Ω 46′23	0°25'22	morning rise	6319 Sep 12 05:12	7° m 54'07	19.90250710
minimum elong	6313 Jul 29 22:07	10° Ω 46'23		retrograde	6319 Dec 15 09:36	11° m 12'23	
max. Earth dist.	6313 Jul 29 22:18		20.37246 AU	opposition	6320 Feb 28 14:53	9° m 09'57	0°47'07
morning rise	6313 Aug 15 11:39	11° Ω 44'22	20.5 / 2 10 110	min. Earth dist.	6320 Feb 28 22:33	~	17.94974 AU
retrograde	6313 Nov 18 00:40	14°Ω58'25		direct	6320 May 13 05:11	7° m) 07'51	17.5 157 1110
opposition	6314 Feb 02 05:06	12° Ω 56'42	0°29'51	evening set	6320 Aug 13 19:19	10° m 23'14	
min. Earth dist.	6314 Feb 02 05:05		18.34005 AU	0.0000			
direct	6314 Apr 17 20:26	10° £ 56'31		conjunction	6320 Aug 30 10:48	11° m 22'55	0°43'22
evening set	6314 Jul 18 02:27	14° Ω 04'51		minimum elong	6320 Aug 30 10:48	11° m/22'55	0°43'21
C	6314 Aug 02 19:37	15° Ω		max. Earth dist.	6320 Aug 30 01:27	11° m 21'30	19.91694 AU
	<u> </u>			morning rise	6320 Sep 16 03:15	12° m) 22'47	
conjunction	6314 Aug 03 14:16	15° Ω 02'45	0°28'26	retrograde	6320 Dec 19 06:25	15° m)41'41	
minimum elong	6314 Aug 03 14:16	15° Ω 02'45		opposition	6321 Mar 04 06:48	13° m 39'05	0°49'12
max. Earth dist.	6314 Aug 03 14:16		20.30784 AU	min. Earth dist.	6321 Mar 04 14:46		17.88426 AU
morning rise	6314 Aug 20 04:17	16° Ω 01'00		direct	6321 May 17 23:30	11° m) 36'37	
retrograde	6314 Nov 22 16:52	19° Ω 15'43		evening set	6321 Aug 18 17:27	14° m 53'11	
opposition	6315 Feb 06 16:56	17° Ω 13'51	0°33'12	Ü	C	•	
min. Earth dist.	6315 Feb 06 17:08		18.27532 AU	conjunction	6321 Sep 04 09:21	15° m 53'09	0°45'05
direct	6315 Apr 22 08:25	15° Ω 13'22		minimum elong	6321 Sep 04 09:21	15° m 53'09	0°45'05
evening set	6315 Jul 22 18:50	18° Ω 22'48		max. Earth dist.	6321 Sep 03 22:15		19.85172 AU
		. 5522 .0		morning rise	6321 Sep 21 02:00	16° m 53'16	
conjunction	6315 Aug 08 07:13	19° Ω 20'59	0°31'23	retrograde	6321 Dec 24 01:25	20° m/ 12'46	
minimum elong	6315 Aug 08 07:12	19° Ω 20'59	0°31'20	opposition	6322 Mar 08 23:31	18° M) 10'02	0°50'58
max. Earth dist.	6315 Aug 08 04:56		20.24309 AU	min. Earth dist.	6322 Mar 09 09:41		17.81959 AU
morning rise	6315 Aug 24 21:54	20° Ω 19'32		direct	6322 May 22 15:52	16° mp 07'09	
retrograde	6315 Nov 27 08:54	23° Ω 34'57		evening set	6322 Aug 23 16:29	19° m 24'54	
opposition	6316 Feb 11 05:40	23° Ω 32'58	0°36'24	c.ciiiig sec	3322.146 23 10.27	., ny.≃⊤.,⊤	
min. Earth dist.	6316 Feb 11 07:53		18.21062 AU	conjunction	6322 Sep 09 08:47	20° m 25'08	0°46'32
and		0002 17		,	ov	 00	

minimum elong	6322 Sep 09 08:47	20° m 25'08	0°46'31	opposition	6329 Apr 09 13:07	20° £ 30'42	0°54'04
max. Earth dist.	6322 Sep 08 20:20	•	19.78780 AU	min. Earth dist.	6329 Apr 10 03:29		17.45174 AU
morning rise	6322 Sep 26 01:35	21° m 25'29		direct	6329 Jun 23 15:15	18° £ 25'34	
retrograde	6322 Dec 28 23:12	24° m/ 45'33		evening set	6329 Sep 26 05:10	21° ≏ 50'46	
opposition	6323 Mar 13 16:35	22° m/42'39	0°52'27	C	•		
min. Earth dist.	6323 Mar 14 02:57	22° m/41'32	17.75656 AU	conjunction	6329 Oct 12 22:04	22° ≏ 52'28	0°48'07
direct	6323 May 27 11:26	20° m 39'23		minimum elong	6329 Oct 12 22:04	22° ≏ 52'28	0°48'08
evening set	6323 Aug 28 16:19	23° m 58'17		max. Earth dist.	6329 Oct 12 04:59	22° ≏ 49'49	19.43372 AU
				morning rise	6329 Oct 29 13:22	23° ♀ 53'59	
conjunction	6323 Sep 14 08:55	24° m 58'47	0°47'41	retrograde	6330 Jan 30 14:08	27° £ 17'00	
minimum elong	6323 Sep 14 08:55	24° m 58'47	0°47'41	opposition	6330 Apr 14 10:47	25° ≙ 13'41	0°53'05
max. Earth dist.	6323 Sep 13 19:26	24° m 56'44	19.72575 AU	min. Earth dist.	6330 Apr 15 01:46	25° £ 12'03	17.41749 AU
morning rise	6323 Oct 01 01:39	25° m 59'21		direct	6330 Jun 28 14:29	23° ഫ 08′25	
retrograde	6324 Jan 02 19:57	29° m 19'57		evening set	6330 Oct 01 09:36	26° ≏ 34'29	
opposition	6324 Mar 17 10:33	27° Mp 16'55	0°53'35	max. Earth dist.	6330 Oct 17 07:19	27° ≏ 33'23	19.40193 AU
min. Earth dist.	6324 Mar 17 22:43	27° m 15'36	17.69588 AU				
direct	6324 May 31 05:25	25° m 13'15		conjunction	6330 Oct 18 02:03	27° ≏ 36'18	0°47'03
evening set	6324 Sep 01 16:41	28° m 33'18		minimum elong	6330 Oct 18 02:03	27° ≏ 36'18	0°47'04
				morning rise	6330 Nov 03 16:58	28° ≏ 37'54	
conjunction	6324 Sep 18 09:28	29° m 34'02	0°48'33		6330 Nov 27 13:35	0° M	
minimum elong	6324 Sep 18 09:28	29° m 34'02	0°48'33	retrograde	6331 Feb 04 13:45	2°M01'10	
max. Earth dist.	6324 Sep 17 18:41	29° m 31'46	19.66659 AU		6331 Apr 18 14:03	30° ₹ Ω	
	6324 Sep 25 11:29	0∘ ⊽		opposition	6331 Apr 19 08:58	29° £ 57'56	0°51'44
morning rise	6324 Oct 05 02:17	0° ჲ 34'49		min. Earth dist.	6331 Apr 20 00:26	29° £ 56'14	17.38812 AU
retrograde	6325 Jan 06 18:36	3° £ 55'55		direct	6331 Jul 03 15:25	27° £ 52'30	
opposition	6325 Mar 22 04:58	1° ≏ 52'44	0°54'24		6331 Sep 13 14:25	0°M	
min. Earth dist.	6325 Mar 22 17:08		17.63838 AU	evening set	6331 Oct 06 14:14	1°M19'23	
	6325 May 15 11:34	30°R, Mp					
direct	6325 Jun 05 01:55	29° m 48'42		conjunction	6331 Oct 23 06:31	2°M21'18	0°45'40
	6325 Jun 25 11:39	0∘ ⊽		minimum elong	6331 Oct 23 06:31	2°M21'18	0°45'42
evening set	6325 Sep 06 17:55	3° ≏ 09'51		max. Earth dist.	6331 Oct 22 12:30		19.37478 AU
				morning rise	6331 Nov 08 20:42	3°M22'57	
conjunction	6325 Sep 23 10:57	4° £ 10'49	0°49'06	retrograde	6332 Feb 09 14:29	6°M46'23	
minimum elong	6325 Sep 23 10:57	4° £ 10'49	0°49'06	opposition	6332 Apr 23 07:49	4°M43'14	
max. Earth dist.	6325 Sep 22 19:51		19.61077 AU	min. Earth dist.	6332 Apr 23 23:28		17.36317 AU
morning rise	6325 Oct 10 03:30	5° £ 11'47		direct	6332 Jul 07 16:42	2°M37'42	
retrograde	6326 Jan 11 16:42	8° ₾ 33'20	0054151	evening set	6332 Oct 10 19:15	6°M05'15	
opposition	6326 Mar 27 00:03	6° £ 30'04	0°54'51		(222 0 + 27 10 50	70 m 07112	0042150
min. Earth dist.	6326 Mar 27 13:36		17.58462 AU	conjunction	6332 Oct 27 10:59	7°M07'13	
direct	6326 Jun 09 21:15	4° £ 25'41		minimum elong	6332 Oct 27 10:59	7°M07'13	
evening set	6326 Sep 11 19:55	7° ≏ 47'54		max. Earth dist.	6332 Oct 26 15:28	8°M08'55	19.35204 AU
aaniumatian	6326 Sep 28 12:55	8° ≏ 49'05	0°49'21	morning rise	6332 Nov 13 00:40		
conjunction minimum elong	6326 Sep 28 12:55	8° £ 49'05	0°49'21	retrograde opposition	6333 Feb 13 14:27 6333 Apr 28 07:11	11°M32'28 9°M29'23	0°47'58
max. Earth dist.	6326 Sep 27 20:18		19.55918 AU	min. Earth dist.	6333 Apr 28 23:33		17.34267 AU
morning rise	6326 Oct 15 05:25	9° £ 50'13	19.55916 AU	direct	6333 Jul 12 18:32	7°M23'42	17.54207 AU
retrograde	6327 Jan 16 15:52	13° £ 12'12		evening set	6333 Oct 16 00:28	10°M51'51	
opposition	6327 Mar 31 19:45	13 — 12 12 11° — 08'51	0°54'57	evening set	0333 001 10 00.20	10 1103131	
min. Earth dist.	6327 Apr 01 09:13		17.53535 AU	conjunction	6333 Nov 01 15:51	11°M53'52	0°41'58
direct	6327 Jun 14 18:56	9° £ 04'10	17.00000 110	minimum elong	6333 Nov 01 15:51	11°M53'52	
evening set	6327 Sep 16 22:20	12° £ 27'25		max. Earth dist.	6333 Oct 31 20:55		19.33367 AU
				morning rise	6333 Nov 18 04:45	12°M55'34	
conjunction	6327 Oct 03 15:26	13° ≏ 28'48	0°49'15		6333 Dec 26 03:34	15°M	
minimum elong	6327 Oct 03 15:26	13° ≏ 28'48	0°49'16	retrograde	6334 Feb 18 15:51	16°M19'08	
max. Earth dist.	6327 Oct 02 23:11		19.51219 AU	renograde	6334 Apr 16 05:03	15°RM₁	
morning rise	6327 Oct 20 07:28	14° £ 30'05	19.01219110	opposition	6334 May 03 06:48	14°M16'08	0°45'34
retrograde	6328 Jan 21 14:59	17° £ 52'27		min. Earth dist.	6334 May 03 22:55		17.32640 AU
opposition	6328 Apr 04 16:14	15° Ω 49'04	0°54'42	direct	6334 Jul 17 21:30	12°M10'20	
min. Earth dist.	6328 Apr 05 06:31		17.49089 AU	•	6334 Oct 10 09:17	15°M	
direct	6328 Jun 18 16:06	13° ≙ 44'09		evening set	6334 Oct 21 05:54	15°M38'59	
evening set	6328 Sep 21 01:32	17° ≏ 08'23		5			
-	*			conjunction	6334 Nov 06 20:37	16°M41'00	0°39'40
conjunction	6328 Oct 07 18:24	18° ≏ 09'56	0°48'51	minimum elong	6334 Nov 06 20:37	16°M41'00	0°39'42
minimum elong	6328 Oct 07 18:24	18° ≏ 09'56	0°48'52	max. Earth dist.	6334 Nov 06 00:42	16°M37'53	19.31967 AU
max. Earth dist.	6328 Oct 07 00:39	18° ≏ 07'11	19.47039 AU	morning rise	6334 Nov 23 08:48	17° M 42'41	
morning rise	6328 Oct 24 10:16	19° ≙ 11'21		retrograde	6335 Feb 23 15:43	21°M06'12	
retrograde	6329 Jan 25 14:10	22° ≏ 34'04		opposition	6335 May 08 06:59	19°M03'16	0°42'51

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min. Earth dist.	6335 May 08 23:53	19°ML01'25	17.31478 AU	conjunction	6341 Dec 10 20:53	20° х 06'45	0°16'58
direct	6335 Jul 22 23:37	16°M57'21	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	minimum elong	6341 Dec 10 20:54	20° х 06'45	
evening set	6335 Oct 26 10:59	20°M26'22		max. Earth dist.	6341 Dec 10 05:22		19.37061 AU
max. Earth dist.	6335 Nov 11 05:53		19.31046 AU	morning rise	6341 Dec 27 02:46	21° х 07′35	
				retrograde	6342 Mar 28 16:43	24° ₹ °29'08	
conjunction	6335 Nov 12 01:08	21°M28'22	0°37'05	opposition	6342 Jun 10 11:30	22° ∡ ¹26'57	0°16'48
minimum elong	6335 Nov 12 01:08	21°M28'22		min. Earth dist.	6342 Jun 10 23:38		17.38551 AU
morning rise	6335 Nov 28 12:30	22°M30'00		direct	6342 Aug 25 23:03	20° √ 21'11	
retrograde	6336 Feb 28 17:32	25°M53'25		evening set	6342 Nov 29 14:08	23° ∡ ¹49'48	
opposition	6336 May 12 07:19	23°M50'33	0°39'50	-			
min. Earth dist.	6336 May 12 23:20	23°M48'48	17.30792 AU	conjunction	6342 Dec 15 22:24	24° ∡ ¹50'55	0°13'06
direct	6336 Jul 27 03:44	21°M44'34		minimum elong	6342 Dec 15 22:24	24° ₹ 50'55	0°13'09
evening set	6336 Oct 30 16:06	25°M13'49		behind sun begin	6342 Dec 15 18:27	24° ₹ 50'19	
max. Earth dist.	6336 Nov 15 10:12	26°M12'45	19.30615 AU	behind sun end	6342 Dec 16 02:20	24° ₹ 51'31	
				max. Earth dist.	6342 Dec 15 09:05	24° ₹ 148′50	19.40167 AU
conjunction	6336 Nov 16 05:32	26°M15'47	0°34'14	morning rise	6343 Jan 01 03:07	25° ₹ 51'32	
minimum elong	6336 Nov 16 05:32	26°M15'47	0°34'17	retrograde	6343 Apr 02 13:47	29° х 12′39	
morning rise	6336 Dec 02 16:03	27°M17'21		opposition	6343 Jun 15 12:18	27° ₹ 10'42	0°12'25
	6337 Jan 25 09:11	0° ∡		min. Earth dist.	6343 Jun 16 00:14	27° ₹ 09'25	17.41926 AU
retrograde	6337 Mar 04 16:46	0° х 40′35		direct	6343 Aug 31 01:03	25° ₹ 05'09	
	6337 Apr 12 22:30	30°RM		evening set	6343 Dec 04 15:49	28° ₹ 33'19	
opposition	6337 May 17 07:49	28°M37'47	0°36'32				
min. Earth dist.	6337 May 18 00:35	28°M35'57	17.30628 AU	conjunction	6343 Dec 20 22:55	29° х 34′12	0°09'10
direct	6337 Aug 01 05:27	26°M31'42		minimum elong	6343 Dec 20 22:55	29° ∡ ³34′12	0°09'13
evening set	6337 Nov 04 20:57	0° ₰ 01'08		behind sun begin	6343 Dec 20 17:17	29° ₰ 33'20	
	6337 Nov 04 13:35	0°⊀		behind sun end	6343 Dec 21 04:34	29° ₰ ³35′04	
				max. Earth dist.	6343 Dec 20 09:47	29° ∡ ³32′09	19.43810 AU
conjunction	6337 Nov 21 09:39	1° ₹ 03'01	0°31'09		6343 Dec 27 19:26	0°ප	
minimum elong	6337 Nov 21 09:39	1° ₹ 03'01	0°31'12	morning rise	6344 Jan 06 02:50	0° る 34'37	
max. Earth dist.	6337 Nov 20 14:46	1° ₹ 00'03	19.30725 AU	retrograde	6344 Apr 06 12:57	3° る 55'15	
morning rise	6337 Dec 07 19:20	2° ₹ 04'29		opposition	6344 Jun 19 12:47	1° る 53'32	
retrograde	6338 Mar 09 18:49	5° ₹ 27'28		min. Earth dist.	6344 Jun 19 23:03		17.45806 AU
opposition	6338 May 22 08:26	3° х 24′44	0°32'58		6344 Aug 13 19:28	30°₽ ⋌	
min. Earth dist.	6338 May 22 23:52		17.31003 AU	direct	6344 Sep 04 05:06	29° х ⁴48'14	
direct	6338 Aug 06 10:07	1° ≯ 18'37			6344 Sep 25 07:29	0°る	
evening set	6338 Nov 10 01:22	4° ≯ 48'05		evening set	6344 Dec 08 16:51	3° る 15'52	
conjunction	6338 Nov 26 13:15	5° √ 49'52	0°27'52	conjunction	6344 Dec 24 23:06	4° る 16'31	0°05'11
minimum elong	6338 Nov 26 13:16	5° ∡ ¹49'52	0°27'54	minimum elong	6344 Dec 24 23:06	4° ප 16'31	0°05'14
max. Earth dist.	6338 Nov 25 19:17	5° ∡ ¹47'02	19.31382 AU	behind sun begin	6344 Dec 24 16:39	4° る 15'32	
morning rise	6338 Dec 12 21:55	6° ≯ 751'12		behind sun end	6344 Dec 25 05:34	4° る 17'30	
retrograde	6339 Mar 14 17:21	10° ∡ 13'53		max. Earth dist.	6344 Dec 24 12:14	4° る 14'50	19.47908 AU
opposition	6339 May 27 09:18	8° √ 11'15	0°29'11	morning rise	6345 Jan 10 01:52	5° る 16'40	
min. Earth dist.	6339 May 28 01:07	8° ₹ 09'32	17.31961 AU	retrograde	6345 Apr 11 09:54	8° る 36'47	
direct	6339 Aug 11 11:40	6° ₮ 05'08		opposition	6345 Jun 24 13:09	6° る 35'19	0°03'31
evening set	6339 Nov 15 05:22	9° ∡ ³34'31		min. Earth dist.	6345 Jun 24 23:04	6° ප 34'15	17.50099 AU
				direct	6345 Sep 09 07:10	4° る 30'17	
conjunction	6339 Dec 01 16:19	10° ∡ ³36′10	0°24'23	evening set	6345 Dec 13 17:24	7° る 57'17	
minimum elong	6339 Dec 01 16:19	10° ≯ 36′10	0°24'26				
max. Earth dist.	6339 Nov 30 22:48	10° ∡ ³33′25	19.32653 AU	conjunction	6345 Dec 29 22:25	8° る 57'40	0°01'09
morning rise	6339 Dec 18 00:08	11° ∡ ³37′22		minimum elong	6345 Dec 29 22:26	8° る 57'40	0°01'10
retrograde	6340 Mar 18 18:38	14° ₹ 59'42		behind sun begin	6345 Dec 29 15:47	8° る 56'39	
opposition	6340 May 31 10:00	12° ∡ 757'11	0°25'12	behind sun end	6345 Dec 30 05:05	8° る 58'41	
min. Earth dist.	6340 May 31 23:59	12° ₹ 55'39	17.33538 AU	max. Earth dist.	6345 Dec 29 11:33	8° る 55'59	19.52396 AU
direct	6340 Aug 15 16:22	10° ∡ 751′07		morning rise	6346 Jan 15 00:22	9° る 57'35	
evening set	6340 Nov 19 08:45	14° ₹ 20′19		desc. node	6346 Apr 10 13:24	13° る 16'12	
				retrograde	6346 Apr 16 07:52	13° る 17'08	
conjunction	6340 Dec 05 18:56	15° ₹ 21'49	0°20'45	opposition	6346 Jun 29 13:20	11° る 15'53	
minimum elong	6340 Dec 05 18:56	15° ₹ 21'49	0°20'46	min. Earth dist.	6346 Jun 29 21:52		17.54764 AU
max. Earth dist.	6340 Dec 05 03:08	15° ₹ 19′21	19.34542 AU	direct	6346 Sep 14 09:14	9° ප 11'06	
morning rise	6340 Dec 22 01:39	16° ≯ 22'51		evening set	6346 Dec 18 16:50	12° る 37'23	
retrograde	6341 Mar 23 16:26	19° ∡ ⁴44'48					
opposition	6341 Jun 05 10:53	17° ∡ °42′26		conjunction	6347 Jan 03 20:59	13° る 37'29	
min. Earth dist.	6341 Jun 06 00:55		17.35738 AU	minimum elong	6347 Jan 03 21:00	13° る 37'29	0°02'56
direct	6341 Aug 20 17:59	15° ∡ ³36′29		behind sun begin	6347 Jan 03 14:22	13° る 36'29	
evening set	6341 Nov 24 11:48	19° ∡ 05'27		behind sun end	6347 Jan 04 03:37	13° る 38'30	
				max. Earth dist.	6347 Jan 03 12:23	13° る 36'10	19.57217 AU

morning rise	6347 Jan 19 21:48	14° る 37'08		minimum elong	6353 Jan 30 17:10	11° ≈ 00'02	0°25'10
retrograde	6347 Apr 21 04:46	14 03708 17° る 56'05		max. Earth dist.	6353 Jan 30 17:10		19.91035 AU
opposition	6347 Apr 21 04.40	17 3 5003	0°05!25	morning rise	6353 Feb 15 13:03	10 ≈59 52 11°≈57'56	19.91033 AU
min. Earth dist.	6347 Jul 04 13:19		17.59724 AU	morning risc	6353 Apr 26 00:38	11 ≈37 30 15°≈	
direct	6347 Sep 19 10:52	13° る 50'32	17.37724 AO	retrograde	6353 May 17 21:13	15 ≈ 12'48	
evening set	6347 Dec 23 15:42	17°る16'00		retrograde	6353 Jun 09 00:38	15°R≈	
evening set	0347 BCC 23 13.42	17 01000		opposition	6353 Aug 01 02:25	13°≈12'35	-0°29'56
conjunction	6348 Jan 08 18:40	18° る 15'49	-0°06'57	min. Earth dist.	6353 Aug 01 02:23		17.94173 AU
minimum elong	6348 Jan 08 18:41	18° る 15'49		direct	6353 Oct 17 08:07	11°≈09'40	17.51175110
behind sun begin	6348 Jan 08 12:31	18° る 14'53		evening set	6354 Jan 19 11:41	14°≈28'55	
behind sun end	6348 Jan 09 00:51	18° る 16'45			6354 Jan 28 01:32	15° ≈	
max. Earth dist.	6348 Jan 08 10:11		19.62317 AU				
morning rise	6348 Jan 24 18:41	19° る 15'11		conjunction	6354 Feb 04 09:06	15° ≈ 26'51	-0°28'33
retrograde	6348 Apr 25 01:25	22° ට 33'31		minimum elong	6354 Feb 04 09:05	15° ≈ 26'51	0°28'32
opposition	6348 Jul 08 12:44	20° る 32'39	-0°09'49	max. Earth dist.	6354 Feb 04 09:25	15° ≈ 26'54	19.97397 AU
min. Earth dist.	6348 Jul 08 19:23	20° る 31'57	17.64957 AU	morning rise	6354 Feb 20 04:18	16° ≈ 24'26	
direct	6348 Sep 23 11:06	18° る 28'23		retrograde	6354 May 22 13:02	19° ≈ 38'39	
evening set	6348 Dec 27 13:30	21° る 52'59		opposition	6354 Aug 05 22:42	17° ≈ 38'33	-0°33'24
C				min. Earth dist.	6354 Aug 05 21:38	17° ≈ 38'40	18.00656 AU
conjunction	6349 Jan 12 15:38	22° る 52'29	-0°10'51	direct	6354 Oct 22 04:02	15° ≈ 35'59	
minimum elong	6349 Jan 12 15:38	22° る 52'29	0°10'48	evening set	6355 Jan 24 03:20	18° ≈ 54'06	
behind sun begin	6349 Jan 12 10:33	22° る 51'43					
behind sun end	6349 Jan 12 20:43	22° る 53'16		conjunction	6355 Feb 08 23:59	19° ≈ 51'42	-0°31'35
max. Earth dist.	6349 Jan 12 09:11	22°る51'30	19.67662 AU	minimum elong	6355 Feb 08 23:58	19° ≈ 51'42	0°31'34
morning rise	6349 Jan 28 14:39	23° る 51'34		max. Earth dist.	6355 Feb 09 02:07	19° ≈ 52'02	20.03983 AU
retrograde	6349 Apr 29 21:31	27° る 09'14		morning rise	6355 Feb 24 18:35	20°≈49'01	
opposition	6349 Jul 13 11:48	25° る 08'32	-0°14'07	retrograde	6355 May 27 05:08	24°≈02'34	
min. Earth dist.	6349 Jul 13 17:16	25° る 07'57	17.70394 AU	opposition	6355 Aug 10 18:10	22° ≈ 02'39	-0°36'39
direct	6349 Sep 28 12:10	23° る 04'33		min. Earth dist.	6355 Aug 10 14:35	22° ≈ 03'01	18.07326 AU
evening set	6350 Jan 01 10:29	26° る 28'09		direct	6355 Oct 27 00:53	20° ≈ 00′28	
•				evening set	6356 Jan 28 18:13	23° ≈ 17'27	
conjunction	6350 Jan 17 11:30	27° る 27'22	-0°14'39				
minimum elong	6350 Jan 17 11:29	27° る 27'22	0°14'37	conjunction	6356 Feb 13 14:06	24°≈14'45	-0°34'25
behind sun begin	6350 Jan 17 08:36	27° る 26'55		minimum elong	6356 Feb 13 14:06	24°≈14'45	0°34'23
behind sun end	6350 Jan 17 14:23	27° る 27'48		max. Earth dist.	6356 Feb 13 17:51	24° ≈ 15'19	20.10727 AU
max. Earth dist.	6350 Jan 17 05:27	27° る 26'26	19.73203 AU	morning rise	6356 Feb 29 08:10	25° ≈ 11'47	
morning rise	6350 Feb 02 09:43	28° る 26'09		retrograde	6356 May 30 19:21	28° ≈ 24'42	
	6350 Mar 02 07:00	0°≈		opposition	6356 Aug 14 12:58	26° ≈ 24'59	-0°39'39
retrograde	6350 May 04 16:28	1° ≈ 43′08		min. Earth dist.	6356 Aug 14 08:55	26° ≈ 25′24	18.14138 AU
	6350 Jul 11 11:54	30°R₹		direct	6356 Oct 30 19:07	24° ≈ 23'12	
opposition	6350 Jul 18 10:25	29° る 42'34	-0°18'19	evening set	6357 Feb 01 08:12	27° ≈ 39′04	
min. Earth dist.	6350 Jul 18 14:59	29° る 42'05	17.76041 AU				
direct	6350 Oct 03 11:29	27° る 38'49		conjunction	6357 Feb 17 03:23	28° ≈ 36′04	-0°37'01
	6350 Dec 19 13:56	0° ≈		minimum elong	6357 Feb 17 03:23	28° ≈ 36′04	0°36'59
evening set	6351 Jan 06 06:19	1° ≈ 01'25		max. Earth dist.	6357 Feb 17 08:27	28° ≈ 36′50	20.17584 AU
				morning rise	6357 Mar 04 20:59	29° ≈ 32'49	
conjunction	6351 Jan 22 06:29	2° ≈ 00'18			6357 Mar 12 15:46	0° ∀	
minimum elong	6351 Jan 22 06:28	2° ≈ 00'18		retrograde	6357 Jun 04 10:33	2°) 45′08	
max. Earth dist.	6351 Jan 22 02:28		19.78949 AU	opposition	6357 Aug 19 07:10	0°) 45′37	
morning rise	6351 Feb 07 03:49	2° ≈ 58'47		min. Earth dist.	6357 Aug 19 00:45		18.21009 AU
retrograde	6351 May 09 11:00	6°≈15'04			6357 Sep 07 06:35	30° R ≈	
opposition	6351 Jul 23 08:23	4°≈14'37		direct	6357 Nov 04 14:16	28° ≈ 44'15	
min. Earth dist.	6351 Jul 23 11:13		17.81875 AU		6357 Dec 30 00:06	0° ∀	
direct	6351 Oct 08 11:37	2°≈11'09		evening set	6358 Feb 05 21:15	1° ¥ 59'01	
evening set	6352 Jan 11 01:05	5° ≈ 32'38			(250 7 1 21 15 10	20)/55142	0000104
	(252 1 27 00 15	(0: -2411-	0021155	conjunction	6358 Feb 21 15:48	2° H 55'42	
conjunction	6352 Jan 27 00:15	6°≈31'12		minimum elong	6358 Feb 21 15:47	2° H 55'42	
minimum elong	6352 Jan 27 00:15	6°≈31'12		max. Earth dist.	6358 Feb 21 22:32		20.24452 AU
max. Earth dist.	6352 Jan 26 21:12		19.84885 AU	morning rise	6358 Mar 09 08:55	3° ¥ 52′12	
morning rise	6352 Feb 11 20:55	7°≈29'24		retrograde	6358 Jun 08 23:22	7°) €03'56	004455
retrograde	6352 May 13 04:17	10°≈44'59	00000	opposition	6358 Aug 24 00:58	5° ₩ 04'37	
opposition	6352 Jul 27 05:48	8°≈44'37		min. Earth dist.	6358 Aug 23 18:19		18.27874 AU
min. Earth dist.	6352 Jul 27 07:49		17.87922 AU	direct	6358 Nov 09 06:41	3°) €03'41	
direct	6352 Oct 12 09:21	6°≈41'25		evening set	6359 Feb 10 09:32	6° 升 17'18	
evening set	6353 Jan 14 18:51	10° ≈ 01'48			(250 E 1 24 22 22	701/12:	0041122
	(252 I 20 15 12	110	0025120	conjunction	6359 Feb 26 03:28	7° X 13'43	
conjunction	6353 Jan 30 17:10	11° ≈ 00'02	-0-2520	minimum elong	6359 Feb 26 03:28	7° ∺ 13'43	0-4131

may Earth dist	6250 Eab 26 11:07	70 W 1.4152	20.31288 AU	min Earth dist	6265 Cam 22 21:16	40\\022122	18.70355 AU
max. Earth dist. morning rise	6359 Feb 26 11:07 6359 Mar 13 20:18	8° ¥ 09'57	20.31288 AU	min. Earth dist. direct	6365 Sep 22 21:16 6365 Dec 09 10:00	4° γ 33'32 2° γ 33'27	18.70333 AU
retrograde	6359 Jun 13 13:40	11° H 21'08		evening set	6366 Mar 11 02:23	5° Υ 39'36	
opposition	6359 Aug 28 17:53	9° H 21'59	0°47'00	evening set	0300 Mai 11 02.23	3 1 39 30	
min. Earth dist.	6359 Aug 28 09:05		18.34658 AU	conjunction	6366 Mar 26 18:11	6° Ƴ 34'21	0040122
direct	6359 Nov 14 00:07	7° ∺ 21'27	16.54056 AU	minimum elong	6366 Mar 26 18:11	6° Υ 34'21	0°49'32
		10°\(\frac{1}{33}\)'59		max. Earth dist.	6366 Mar 27 08:50		20.72843 AU
evening set	6360 Feb 14 21:01	10 大33 39		morning rise		7° Υ 29'11	20.72643 AU
agniumation	6360 Mar 01 14:29	11°) 30′07	0942127	-	6366 Apr 11 10:19	10° Υ 36'48	
conjunction	6360 Mar 01 14:29	11° X 30'07		retrograde	6366 Jul 12 17:51	8° Υ 38'09	0054154
minimum elong				opposition	6366 Sep 27 23:48		-0°54'54 18.75316 AU
max. Earth dist.	6360 Mar 01 23:41	11° X 31'29 12° X 26'07	20.37993 AU	min. Earth dist.	6366 Sep 27 09:54		18./5316 AU
morning rise	6360 Mar 17 06:58			direct	6366 Dec 13 21:28	6° Y 39'41	
retrograde	6360 Jun 17 01:04	15°) (36′44		evening set	6367 Mar 15 08:56	9° Ƴ 44'53	
opposition	6360 Sep 01 10:25	13°) € 37'45					
min. Earth dist.	6360 Sep 01 01:41		18.41284 AU	conjunction	6367 Mar 31 00:36	10° Y 39'28	
direct	6360 Nov 17 14:44	11°) € 37'37		minimum elong	6367 Mar 31 00:36	10° Y 39'28	0°49'39
evening set	6361 Feb 18 07:47	14°) (49′02		max. Earth dist.	6367 Mar 31 15:23		20.77691 AU
				morning rise	6367 Apr 15 17:02	11° Ƴ 34'10	
conjunction	6361 Mar 06 00:44	15°) 44′54		retrograde	6367 Jul 17 04:35	14° Y 41′23	
minimum elong	6361 Mar 06 00:44	15°) 44′54		opposition	6367 Oct 02 11:35	12° Y 42'44	
max. Earth dist.	6361 Mar 06 10:22		20.44513 AU	min. Earth dist.	6367 Oct 01 19:58		18.80054 AU
morning rise	6361 Mar 21 17:02	16°) (40'41		direct	6367 Dec 18 07:50	10° Ƴ 44'29	
retrograde	6361 Jun 21 14:28	19° ¥ 50'45		evening set	6368 Mar 18 14:52	13° Ƴ 48'49	
opposition	6361 Sep 06 02:10	17° ₩ 51'55	-0°50'47				
min. Earth dist.	6361 Sep 05 15:29	17°) € 53'00	18.47686 AU	conjunction	6368 Apr 03 06:40	14° Ƴ 43'15	-0°49'30
direct	6361 Nov 22 06:22	15° ¥ 52'08		minimum elong	6368 Apr 03 06:40	14° Ƴ 43'15	0°49'31
evening set	6362 Feb 22 17:49	19° ∺ 02'28		max. Earth dist.	6368 Apr 03 23:06	14° Ƴ 45'39	20.82300 AU
				morning rise	6368 Apr 18 23:13	15° Ƴ 37'50	
conjunction	6362 Mar 10 10:26	19° ¥ 58′05	-0°46'31	retrograde	6368 Jul 20 12:01	18° Ƴ 44'41	
minimum elong	6362 Mar 10 10:26	19° ¥ 58′05	0°46'30	opposition	6368 Oct 05 23:02	16° Ƴ 46'04	-0°54'34
max. Earth dist.	6362 Mar 10 21:32	19°) 59'44	20.50775 AU	min. Earth dist.	6368 Oct 05 07:22	16° Ƴ 47'39	18.84543 AU
morning rise	6362 Mar 26 02:29	20°) 53′39		direct	6368 Dec 21 17:37	14° Ƴ 48'06	
retrograde	6362 Jun 26 00:49	24°) €03'12		evening set	6369 Mar 22 20:22	17° Ƴ 51'37	
opposition	6362 Sep 10 17:33	22°) €04'28	-0°52'11	_			
min. Earth dist.	6362 Sep 10 07:03	22°) €05'32	18.53814 AU	conjunction	6369 Apr 07 12:08	18° Ƴ 45'54	-0°49'07
direct	6362 Nov 26 19:46	20°) €05'00		minimum elong	6369 Apr 07 12:08	18° Ƴ 45'54	
evening set	6363 Feb 27 03:02	23°) 14'15		max. Earth dist.	6369 Apr 08 04:32	18° Ƴ 48'18	20.86668 AU
C				morning rise	6369 Apr 23 05:05	19° Ƴ 40'22	
conjunction	6363 Mar 14 19:18	24°) €09'38	-0°47'39	retrograde	6369 Jul 24 22:17	22° Υ 46'57	
minimum elong	6363 Mar 14 19:17	24°) (09'38		opposition	6369 Oct 10 09:56	20° Y 48′22	-0°53'59
max. Earth dist.	6363 Mar 15 06:36		20.56755 AU	min. Earth dist.	6369 Oct 09 16:45		18.88778 AU
morning rise	6363 Mar 30 11:23	25°) (05'00	20.50755110	direct	6369 Dec 26 03:03	18° Υ 50'38	10.00770110
retrograde	6363 Jun 30 13:05	28°) 14'02		evening set	6370 Mar 27 01:28	21° Y 53'25	
opposition	6363 Sep 15 08:03	26° X 15'21	-0°53'18	evening set	0370 Wai 27 01.20	21 3323	
min. Earth dist.	6363 Sep 14 19:47		18.59635 AU	conjunction	6370 Apr 11 17:29	22° Ƴ 47'36	-0°48'29
direct	6363 Dec 01 09:34	24° X 16'10	10.57055710	minimum elong	6370 Apr 11 17:29	22°Υ47'36	
evening set	6364 Mar 02 11:34	27° H 24'22		max. Earth dist.	6370 Apr 11 17:29		20.90753 AU
evening set	0304 Mai 02 11.34	21 12722		morning rise	6370 Apr 27 10:41	23° Υ 41'59	20.70733 AO
conjunction	6364 Mar 18 03:40	28° ¥ 19'32	-0°48'33	retrograde	6370 Jul 29 05:32	26° Υ 48'18	
conjunction minimum elong	6364 Mar 18 03:40	28° X 19'32		opposition	6370 Oct 14 20:27	26 γ 48 18 24° γ 49'47	-0°53'00
•			20.62407 AU				18.92711 AU
max. Earth dist. morning rise	6364 Mar 18 16:25 6364 Apr 02 19:39	28° X 21°23 29° X 14'42	20.0240 / AU	min. Earth dist. direct	6370 Oct 14 03:23 6370 Dec 30 11:04	24° Y 51 29 22° Y 52 20	10.74/11 AU
morning rise		29 π 1442 0° Υ				22 γ 32 20 25° γ 54'25	
. 1	6364 Apr 16 07:16			evening set	6371 Mar 31 06:17	25" 54"25	
retrograde	6364 Jul 03 22:24	2°Υ23'13	0054105		(271) 15 22 26	2 < 000 4 012 0	0045125
opposition	6364 Sep 18 21:53	0° Υ 24'35		conjunction	6371 Apr 15 22:26	26° Y 48'30	
min. Earth dist.	6364 Sep 18 09:52		18.65135 AU	minimum elong	6371 Apr 15 22:26	26° Y 48'30	
t' .	6364 Sep 29 03:32	30° ₹ ₩		max. Earth dist.	6371 Apr 16 16:07		20.94528 AU
direct	6364 Dec 04 22:00	28° ¥ 25'39		morning rise	6371 May 01 16:12	27° Y 42'48	
	6365 Feb 05 14:06	0° Υ			6371 Jun 18 13:41	0° 8	
evening set	6365 Mar 06 19:25	1° Ƴ 32'48		retrograde	6371 Aug 02 15:12	0° 8 48'57	
					6371 Sep 18 05:25	30° ₹ Υ	
conjunction	6365 Mar 22 11:16	2° Y 27'45		opposition	6371 Oct 19 06:28	28° Y 50′29	
minimum elong	6365 Mar 22 11:16	2° Y 27'45		min. Earth dist.	6371 Oct 18 12:22		18.96307 AU
max. Earth dist.	6365 Mar 23 00:08		20.67766 AU	direct	6372 Jan 03 19:37	26° Y 53'16	
morning rise	6365 Apr 07 03:24	3° Y 22'45		evening set	6372 Apr 03 10:53	29° Ƴ 54'44	
retrograde	6365 Jul 08 09:35	6° Ƴ 30'48			6372 Apr 05 00:06	9° 8	
opposition	6365 Sep 23 11:05	4° Ƴ 32'09	-0°54'39				

conjunction	6372 Apr 19 03:23	0° 8 48'45	-0°46'32	retrograde	6378 Aug 30 22:43	28° 8 42'11	
minimum elong	6372 Apr 19 03:23	0° 8 48'45		opposition	6378 Nov 16 20:07	26° 8 43'33	-0°37'57
max. Earth dist.	6372 Apr 19 03:23	_	20.97920 AU	min. Earth dist.	6378 Nov 16 03:32	_	19.07944 AU
morning rise	6372 May 04 21:28	1° 8 43'01	20.77720 AO	direct	6379 Jan 31 19:38	24° 8 47'09	17.07744 AC
retrograde	6372 Aug 05 22:31	4° 8 49'00		evening set	6379 May 01 16:46	27° 8 45'58	
opposition	6372 Oct 22 16:07	2° 8 50'35	0°50'42	evening set	0379 Way 01 10.40	27 043 36	
min. Earth dist.	6372 Oct 21 22:26	•	18.99494 AU	agniunation	6270 May 17, 12-26	28° 8 39'58	0022107
direct	6373 Jan 07 02:36	0° 8 53'37	18.99494 AU	conjunction	6379 May 17 12:36	28° 8 39'58	
	6373 Apr 07 15:25	3° 8 54'33		minimum elong max. Earth dist.	6379 May 17 12:36		21.07788 AU
evening set	03/3 Apr 0/ 13.23	3 03433			6379 May 18 05:36		21.07788 AU
	(272 4 22 00 07	401240120	0045112	morning rise	6379 Jun 02 11:22	29° 8 34'22	
conjunction	6373 Apr 23 08:07	4° 8 48'30			6379 Jun 10 05:47	0°II	
minimum elong	6373 Apr 23 08:07	4° 8 48'30		retrograde	6379 Sep 04 07:06	2° II 40'15	10.07570 411
max. Earth dist.	6373 Apr 24 02:26	_	21.00900 AU	min. Earth dist.	6379 Nov 20 11:17		19.07570 AU
morning rise	6373 May 09 02:50	5° 8 42'44		opposition	6379 Nov 21 03:51	0° Ⅱ 41′28	-0°35'07
retrograde	6373 Aug 10 07:42	8° 8 48'37			6379 Dec 08 19:39	30° ₹ 8	
min. Earth dist.	6373 Oct 26 07:13	_	19.02247 AU	direct	6380 Feb 05 01:12	28° 8 45'01	
opposition	6373 Oct 27 01:32	6° 8 50'15	-0°49'09		6380 Mar 31 11:09	$\Pi^{\circ}0$	
direct	6374 Jan 11 10:17	4° 8 53'28		evening set	6380 May 04 20:57	1° Ⅱ 43'43	
evening set	6374 Apr 11 19:38	7° 8 53'55					
				conjunction	6380 May 20 17:33	2° Ⅲ 37'47	-0°30'29
conjunction	6374 Apr 27 12:50	8° 8 47'50	-0°43'42	minimum elong	6380 May 20 17:33	2° Ⅱ 37'47	0°30'31
minimum elong	6374 Apr 27 12:51	8° 8 47'50	0°43'44	max. Earth dist.	6380 May 21 11:19	2° Ⅱ 40′19	21.07197 AU
max. Earth dist.	6374 Apr 28 08:09	8° 8 50'37	21.03399 AU	morning rise	6380 Jun 05 16:55	3° Ⅲ 32′16	
morning rise	6374 May 13 07:59	9° 8 42'03		retrograde	6380 Sep 07 13:33	6° Ⅲ 38'17	
retrograde	6374 Aug 14 15:23	12° 8 47'52		opposition	6380 Nov 24 11:22	4° Ⅲ 39'23	-0°32'07
opposition	6374 Oct 31 10:41	10° 8 49'31	-0°47'20	min. Earth dist.	6380 Nov 23 19:14	4° Ⅱ 41'00	19.06779 AU
min. Earth dist.	6374 Oct 30 17:00	10° 8 51'17	19.04487 AU	direct	6381 Feb 08 07:15	2° Ⅱ 42'54	
direct	6375 Jan 15 17:06	8° 8 52'56		evening set	6381 May 09 01:25	5° Ⅱ 41'32	
evening set	6375 Apr 16 00:04	11° 8 52'57		· ·	•		
C	•			conjunction	6381 May 24 22:36	6° Ⅱ 35'41	-0°27'42
conjunction	6375 May 01 17:36	12° 8 46'50	-0°41'58	minimum elong	6381 May 24 22:36	6° Ⅱ 35'41	
minimum elong	6375 May 01 17:36	12° 8 46'50		max. Earth dist.	6381 May 25 15:11		21.06229 AU
max. Earth dist.	6375 May 02 11:47		21.05376 AU	morning rise	6381 Jun 09 22:55	7° Ⅱ 30'15	
morning rise	6375 May 17 13:29	13° 8 41'04	21.00370110	retrograde	6381 Sep 11 22:40	10° ∏ 36′28	
morning rise	6375 Jun 11 13:59	15°8		opposition	6381 Nov 28 18:51	8° I 37'26	-0°28'58
retrograde	6375 Aug 19 00:02	16° 8 46'50		min. Earth dist.	6381 Nov 28 02:49		19.05629 AU
retrograde	6375 Oct 30 23:27	15°R X		direct	6382 Feb 12 12:20	6° Ⅱ 40'53	17.03027 AC
opposition	6375 Nov 04 19:20	14° 8 48'28	0045110	evening set	6382 May 13 05:56	9° П 39'33	
min. Earth dist.	6375 Nov 04 19.20 6375 Nov 04 01:29	_	19.06188 AU	evening set	0362 May 13 03.30	9 Д3933	
			19.00188 AU	conjunction	(202 M 20, 04-01	100π22140	0024147
direct	6376 Jan 19 23:52	12° 8 51'59		3	6382 May 29 04:01	10° Ⅲ 33'48	
	6376 Apr 03 05:37	15° 8		minimum elong	6382 May 29 04:01	10° Ⅱ 33'48	
evening set	6376 Apr 19 04:18	15° 8 51'39		max. Earth dist.	6382 May 29 21:19		21.04890 AU
	(27() () () () ()	1.60 🗸 4.5122	0040102	morning rise	6382 Jun 14 05:03	11° II 28'30	
conjunction	6376 May 04 22:27	16° 8 45'32		retrograde	6382 Sep 16 05:18	14° Ⅱ 34'56	10.04102.441
minimum elong	6376 May 04 22:27	16° 8 45'32		min. Earth dist.	6382 Dec 02 10:43		19.04102 AU
max. Earth dist.	6376 May 05 17:12		21.06783 AU	opposition	6382 Dec 03 02:16	12° Ⅲ 35'48	-0°25'41
morning rise	6376 May 20 18:51	17° 8 39'47		direct	6383 Feb 16 17:52	10° ∏ 39'12	
retrograde	6376 Aug 22 07:31	20° 8 45'32		evening set	6383 May 17 11:00	13° Ⅱ 37'58	
min. Earth dist.	6376 Nov 07 10:45		19.07304 AU				
opposition	6376 Nov 08 03:53	18° 8 47'07	-0°43'03	conjunction	6383 Jun 02 09:43	14° Ⅱ 32'20	
direct	6377 Jan 23 06:46	16° 8 50'43		minimum elong	6383 Jun 02 09:43	14° ∏ 32′20	
evening set	6377 Apr 23 08:27	19° 8 50'01		max. Earth dist.	6383 Jun 03 01:37		21.03193 AU
				morning rise	6383 Jun 18 11:45	15° Ⅱ 27'10	
conjunction	6377 May 09 03:02	20° 8 43'56		retrograde	6383 Sep 20 14:42	18° Ⅱ 33'52	
minimum elong	6377 May 09 03:02	20° 8 43'56	0°37'57	opposition	6383 Dec 07 09:33	16° Ⅱ 34'38	-0°22'15
max. Earth dist.	6377 May 09 20:33	20° 8 46'27	21.07631 AU	min. Earth dist.	6383 Dec 06 18:27	16° Ⅱ 36′09	19.02221 AU
morning rise	6377 May 25 00:16	21° 8 38'12		direct	6384 Feb 20 22:43	14° Ⅱ 37'58	
retrograde	6377 Aug 26 15:43	24° 8 43'59		evening set	6384 May 20 16:18	17° Ⅱ 36′56	
opposition	6377 Nov 12 12:12	22° 8 45'28	-0°40'36				
min. Earth dist.	6377 Nov 11 19:00	22° 8 47'11	19.07880 AU	conjunction	6384 Jun 05 15:57	18° Ⅱ 31′27	-0°18'36
direct	6378 Jan 27 12:58	20° 8 49'04		minimum elong	6384 Jun 05 15:57	18° Ⅲ 31′27	0°18'39
evening set	6378 Apr 27 12:33	23° 8 48'07		max. Earth dist.	6384 Jun 06 08:21	18° Ⅲ 33'47	21.01122 AU
				morning rise	6384 Jun 21 18:41	19° Ⅱ 26′25	
conjunction	6378 May 13 07:51	24° 8 42'03	-0°35'36	retrograde	6384 Sep 23 22:32	22° II 33'26	
minimum elong	6378 May 13 07:51	24° 8 42'03	0°35'38	opposition	6384 Dec 10 17:04	20° Ⅲ 34′07	-0°18'43
max. Earth dist.	6378 May 14 02:03	24° 8 44'39	21.07944 AU	min. Earth dist.	6384 Dec 10 02:33	20° Ⅲ 35'35	18.99955 AU
		250 420122		direct	6385 Feb 24 04:15	18° Ⅱ 37'24	
morning rise	6378 May 29 05:42	25° 8 36'23		unect	0363 FC0 24 04.13	10 113/24	

evening set	6385 May 24 22:02	21° Ⅲ 36'36	minimum elong	6390 Jun 30 17:04	12°545'04 0°01'55
· · · · · · · · · · · · ·	(205 I 00 22:22	220T21116 0015122	behind sun begin	6390 Jun 30 10:23	12°544'08
conjunction	6385 Jun 09 22:23	22° П 31'16 -0°15'22 22° П 31'16 0°15'24	behind sun end	6390 Jun 30 23:44	12°546'00
minimum elong	6385 Jun 09 22:23		max. Earth dist.	6390 Jul 01 02:55	12°5546'28 20.79660 AU
behind sun begin	6385 Jun 09 20:29	22° Ⅲ 31′00	morning rise	6390 Jul 17 01:03	13°541'12
behind sun end	6385 Jun 10 00:17	22° I [31'31	retrograde	6390 Oct 19 13:15	16°950'55
max. Earth dist.	6385 Jun 10 13:12	22° П 33'22 20.98676 AU 23° П 26'24	1.1	6391 Jan 04 17:57	14°950'47 0°04'06
morning rise	6385 Jun 26 02:10	26° Ⅲ 33'48	min. Earth dist.	6391 Jan 04 09:46	14°951'37 18.77098 AU
retrograde	6385 Sep 28 08:24		direct	6391 Mar 20 17:36	12°553'01
min. Earth dist.	6385 Dec 14 11:00	24° II 35'47 18.97308 AU	J evening set	6391 Jun 18 21:48	15° © 55'09
opposition	6385 Dec 15 00:46	24°∏34'23 -0°15'05 22°∏37'35		(201 1 1 05 02 26	1.00001102 0000121
direct	6386 Feb 28 09:14		conjunction	6391 Jul 05 03:26	16°951'03 0°05'31
evening set	6386 May 29 04:23	25° Ⅲ 37′07	minimum elong	6391 Jul 05 03:25	16°951'03 0°05'28
	6006 Y 14 05 44	2 CO W 2 LIST 202 202	behind sun begin	6391 Jul 04 20:59	16°950'09
conjunction	6386 Jun 14 05:44	26° I 31'57 -0°12'02	behind sun end	6391 Jul 05 09:50	16°951'57
minimum elong	6386 Jun 14 05:43	26° Ⅲ 31'57 0°12'06	max. Earth dist.	6391 Jul 05 10:49	16°S52'06 20.74463 AU
behind sun begin	6386 Jun 14 01:13	26° Ⅲ 31′20	morning rise	6391 Jul 21 12:24	17°9547'26
behind sun end	6386 Jun 14 10:13	26° Ⅲ 32'35	retrograde	6391 Oct 24 01:02	20° 9 57'41
max. Earth dist.	6386 Jun 14 20:43	26° I I34′06 20.95817 AU	1.1	6392 Jan 09 02:51	18°957'19 0°08'01
morning rise	6386 Jun 30 10:14	27° Ⅱ 27'16	min. Earth dist.	6392 Jan 08 20:14	18°\$58'00 18.71717 AU
	6386 Aug 25 13:45	0ං ව	direct	6392 Mar 24 01:02	16°\$59'13
retrograde	6386 Oct 02 17:43	0°535'04	evening set	6392 Jun 22 07:56	20° © 02'04
	6386 Nov 10 17:06	30°RⅡ			
opposition	6386 Dec 19 08:26	28° Ⅲ 35'35 -0°11'22	conjunction	6392 Jul 08 14:35	20°958'13 0°09'02
min. Earth dist.	6386 Dec 18 19:35	28° 耳 36′53 18.94224 AU	J minimum elong	6392 Jul 08 14:35	20°958'13 0°09'00
direct	6387 Mar 04 15:13	26° Ⅲ 38'40	behind sun begin	6392 Jul 08 08:54	20°957'25
evening set	6387 Jun 02 11:30	29° Ⅱ 38'36	behind sun end	6392 Jul 08 20:17	20°959'01
	6387 Jun 08 18:58	0°ඉ	max. Earth dist.	6392 Jul 08 21:54	20°959'16 20.68916 AU
			morning rise	6392 Jul 25 00:13	21° 9 54'50
conjunction	6387 Jun 18 13:33	0°533'38 -0°08'39	retrograde	6392 Oct 27 13:21	25°905'38
minimum elong	6387 Jun 18 13:33	0°\$33'38 0°08'41	opposition	6393 Jan 12 12:05	23°905'03 0°11'55
behind sun begin	6387 Jun 18 07:48	0°\$32'50	min. Earth dist.	6393 Jan 12 06:06	23°505'40 18.66020 AU
behind sun end	6387 Jun 18 19:19	0°\$34'26	direct	6393 Mar 28 09:15	21° © 06'38
max. Earth dist.	6387 Jun 19 02:23	0°S35'28 20.92514 AU		6393 Jun 26 18:48	24° © 10'13
morning rise	6387 Jul 04 19:06	1°S29'08	evening set	03/3 Juli 20 10.40	24 310 15
retrograde	6387 Oct 07 04:22	4°937'24	conjunction	6393 Jul 13 02:11	25°\$06'38 0°12'31
opposition	6387 Dec 23 16:28	2°937'47 -0°07'34	minimum elong	6393 Jul 13 02:11	25°\$06'38 0°12'28
min. Earth dist.	6387 Dec 23 10:28 6387 Dec 23 04:53	2°938'57 18.90684 AU	=	6393 Jul 12 21:53	25°906'02
	6388 Mar 07 20:52	0°940'43	behind sun end	6393 Jul 12 21:33 6393 Jul 13 06:29	25° 9 00'02 25° 9 07'15
direct					
evening set	6388 Jun 05 19:01	3°541'08	max. Earth dist.	6393 Jul 13 07:14	25°507'21 20.63099 AU
. ,.	(200 1 21 22 02	40626121 0005112	morning rise	6393 Jul 29 12:49	26°503'31
conjunction	6388 Jun 21 22:02	4°\$36'21 -0°05'12	retrograde	6393 Nov 01 02:00	29°5014'55
minimum elong	6388 Jun 21 22:03	4°536'22 0°05'15	opposition	6394 Jan 16 21:44	27°514'05 0°15'46
behind sun begin	6388 Jun 21 15:37	4°535'28	min. Earth dist.	6394 Jan 16 17:19	27°S14'32 18.60092 AU
behind sun end	6388 Jun 22 04:30	4°537'16	direct	6394 Apr 01 16:57	25°S15'20
max. Earth dist.	6388 Jun 22 10:42	4°538'10 20.88719 AU	J evening set	6394 Jul 01 06:28	28° © 19'45
morning rise	6388 Jul 08 04:16	5°S32'04		(2047) 17 14 54	20001425 0015150
retrograde	6388 Oct 10 14:42	8°540'47	conjunction	6394 Jul 17 14:54	29°516'27 0°15'58
opposition	6388 Dec 27 00:43	6°541'02 -0°03'43	minimum elong	6394 Jul 17 14:54	29° © 16'27 0°15'56
min. Earth dist.	6388 Dec 26 14:07	6°542'07 18.86633 AU	J max. Earth dist.	6394 Jul 17 19:54	29°S17'10 20.57067 AU
direct	6389 Mar 12 03:34	4°9543'48		6394 Jul 30 03:02	0° N
evening set	6389 Jun 10 03:23	7°9544'44	morning rise	6394 Aug 03 02:07	0° Ω 13'35
			retrograde	6394 Nov 05 16:02	3° Ω 25'35
conjunction	6389 Jun 26 07:11	8°\$40'10 -0°01'41	opposition	6395 Jan 21 07:32	1° Ω 24'33 0°19'34
minimum elong	6389 Jun 26 07:10	8°540'10 0°01'43	min. Earth dist.	6395 Jan 21 03:39	1° Ω 24'57 18.53971 AU
behind sun begin	6389 Jun 26 00:31	8° 9 39'14		6395 Feb 27 22:12	30° ₹ 5
behind sun end	6389 Jun 26 13:50	8°9541'06	direct	6395 Apr 06 02:29	29°\$25'28
max. Earth dist.	6389 Jun 26 17:21	8°5541'37 20.84431 AU	J	6395 May 12 14:19	0 $^{\circ}\Omega$
morning rise	6389 Jul 12 14:26	9° 5 36'05	evening set	6395 Jul 05 19:04	2° Ω 30'46
retrograde	6389 Oct 15 02:04	12° 5 45'19			
asc. node	6389 Dec 13 17:32	11° 5 27'42	conjunction	6395 Jul 22 04:11	3° Ω 27'45 0°19'21
opposition	6389 Dec 31 09:16	10°5945'23 0°00'11	minimum elong	6395 Jul 22 04:11	3° Ω 27'45 0°19'18
min. Earth dist.	6389 Dec 31 00:09	10°5546'18 18.82101 AU	J max. Earth dist.	6395 Jul 22 06:52	3° Ω 28'08 20.50878 AU
direct		00015150	mamina rias	(205 A 07 16-19	4° Ω 25'09
	6390 Mar 16 10:14	8° 5 47'53	morning rise	6395 Aug 07 16:18	4 0623 09
evening set	6390 Mar 16 10:14 6390 Jun 14 12:11	8°947'53 11°949'23	retrograde	6395 Nov 10 05:31	4 8ℓ 23 09 7° Ω 37'48
evening set			=	•	
conjunction			retrograde	6395 Nov 10 05:31	7° Ω 37'48

direct	6396 Apr 09 10:27	3° Ω 37'09		evening set	6402 Aug 05 13:02	2° m 39'11	
evening set	6396 Jul 09 08:12	6° Ω 43'24		conjunction	6402 Aug 22 03:26	3°My38'16	0°39'36
conjunction	6396 Jul 25 18:18	7° Ω 40'40	0°22'38	minimum elong	6402 Aug 22 03:25	3°My38'16	0°39'35
minimum elong	6396 Jul 25 18:18	7° Ω 40'40	0°22'36	max. Earth dist.	6402 Aug 21 21:10	-•	20.05522 AU
max. Earth dist.	6396 Jul 25 21:02		20.44583 AU	morning rise	6402 Sep 07 19:14	4° Mp 37'36	20.03322710
morning rise	6396 Aug 11 06:56	8° Ω 38'21	20.11303710	retrograde	6402 Dec 11 03:03	7° Mp 55'10	
retrograde	6396 Nov 13 21:33	11° Ω 51'41		opposition	6403 Feb 24 10:57	5° m 52'55	0°45'14
opposition	6397 Jan 29 04:56	9° Ω 50'16	0°26'53	min. Earth dist.	6403 Feb 24 16:33		18.02148 AU
min. Earth dist.	6397 Jan 29 02:58	9° Ω 50'28	18.41390 AU	direct	6403 May 10 02:00	3° m)51'14	
direct	6397 Apr 13 21:33	7° £ 50'33		evening set	6403 Aug 10 09:25	7° m 05'20	
evening set	6397 Jul 13 22:33	10° Ω 57'48		-	•	-	
-				conjunction	6403 Aug 27 00:14	8° m 04'43	0°41'46
conjunction	6397 Jul 30 09:19	11° Ω 55'21	0°25'50	minimum elong	6403 Aug 27 00:14	8° m 04'43	0°41'45
minimum elong	6397 Jul 30 09:18	11° Ω 55'21	0°25'47	max. Earth dist.	6403 Aug 26 15:33	8° Mp 03'25	19.98776 AU
max. Earth dist.	6397 Jul 30 09:42	11° Ω 55′25	20.38217 AU	morning rise	6403 Sep 12 16:26	9° ™ 04'18	
morning rise	6397 Aug 15 22:46	12° Ω 53'19		retrograde	6403 Dec 15 20:46	12° m 22'31	
	6397 Sep 26 21:19	15° Ω		opposition	6404 Feb 29 02:23	10° m 20'04	0°47'32
retrograde	6397 Nov 18 11:52	16° Ω 07'21		min. Earth dist.	6404 Feb 29 10:15	10° m 19'14	17.95407 AU
	6398 Jan 11 09:15	15°R Ω		direct	6404 May 13 17:10	8° m 17'59	
opposition	6398 Feb 02 16:23	14° Ω 05'46		evening set	6404 Aug 14 06:22	11°Mp33'15	
min. Earth dist.	6398 Feb 02 16:14		18.35005 AU				
direct	6398 Apr 18 06:43	12° Ω 05'44		conjunction	6404 Aug 30 21:49	12° m 32'55	0°43'43
	6398 Jul 14 11:08	15° Ω		minimum elong	6404 Aug 30 21:48	12° Mp 32'55	0°43'43
evening set	6398 Jul 18 13:43	15° Ω 14'03		max. Earth dist.	6404 Aug 30 12:16	•	19.92053 AU
		0		morning rise	6404 Sep 16 14:14	13° m 32'45	
conjunction	6398 Aug 04 01:27	16° Ω 11'55	0°28'54	retrograde	6404 Dec 19 17:15	16° Mp 51'35	0040104
minimum elong	6398 Aug 04 01:27	16° Ω 11'55		opposition	6405 Mar 04 18:15	14° mp 48'57	0°49'34
max. Earth dist.	6398 Aug 04 01:41		20.31806 AU	min. Earth dist.	6405 Mar 05 02:21	-•	17.88713 AU
morning rise	6398 Aug 20 15:23	17° Ω 10'10 20° Ω 24'54		direct	6405 May 18 10:56	12° Mp 46'27	
retrograde	6398 Nov 23 05:19	$18^{\circ}\Omega 23'12$	0022142	evening set	6405 Aug 19 04:28	16° Mp 02'53	
opposition min. Earth dist.	6399 Feb 07 04:21 6399 Feb 07 04:35		18.28563 AU	agniumation	6405 Sep 04 20:17	1.70 mm () 21/4 ()	0°45'24
direct	6399 Apr 22 19:14	16° Ω 22'52	18.28303 AU	conjunction minimum elong	6405 Sep 04 20:17	17° Mp 02'49 17° Mp 02'49	0°45'23
evening set	6399 Jul 23 06:03	10° Ω 32'18		max. Earth dist.	6405 Sep 04 28:54		19.85404 AU
evening set	0377341 23 00.03	17 0632 10		morning rise	6405 Sep 21 12:55	18° Mp 02'54	17.05404 AC
conjunction	6399 Aug 08 18:19	20° Ω 30'29	0°31'49	retrograde	6405 Dec 24 12:08	21°m/22'19	
minimum elong	6399 Aug 08 18:19	20°Ω30'29	0°31'49	opposition	6406 Mar 09 10:44	19° m 19'30	0°51'19
max. Earth dist.	6399 Aug 08 16:06		20.25338 AU	min. Earth dist.	6406 Mar 09 21:00		17.82144 AU
morning rise	6399 Aug 25 08:55	21° Ω 28'59		direct	6406 May 23 03:28	17° m) 16'34	
retrograde	6399 Nov 27 20:45	24° Ω 44'28		evening set	6406 Aug 24 03:19	20° m/34'10	
opposition	6400 Feb 11 17:03	22° Ω 42'38	0°36'53	•	•	-	
min. Earth dist.	6400 Feb 11 19:23	22° Ω 42′23	18.22075 AU	conjunction	6406 Sep 09 19:34	21° Mp 34'23	0°46'49
direct	6400 Apr 26 06:23	20° Ω 42'00		minimum elong	6406 Sep 09 19:34	21°M 34'23	0°46'49
evening set	6400 Jul 26 23:17	23° Ω 52'35		max. Earth dist.	6406 Sep 09 07:10	21°M 32'30	19.78928 AU
				morning rise	6406 Sep 26 12:19	22° m 34'42	
conjunction	6400 Aug 12 12:24	24° Ω 51′04	0°34'36	retrograde	6406 Dec 29 10:03	25° m 54'41	
minimum elong	6400 Aug 12 12:23	24° Ω 51'04		opposition	6407 Mar 14 03:48	23° m 51'41	0°52'45
max. Earth dist.	6400 Aug 12 09:42		20.18816 AU	min. Earth dist.	6407 Mar 14 14:05	23° Mp 50'34	17.75776 AU
morning rise	6400 Aug 29 03:21	25° Ω 49'52		direct	6407 May 27 22:50	21°Mp48'20	
retrograde	6400 Dec 01 15:05	29° Ω 06'03		evening set	6407 Aug 29 02:53	25°Mp07'05	
opposition	6401 Feb 15 06:18	27° Ω 04'06			(407.0 14.10.22	0.60 m. 0.7122	0047157
min. Earth dist.	6401 Feb 15 09:06		18.15514 AU	conjunction	6407 Sep 14 19:23	26° Mp 07'33	0°47'57
direct	6401 Apr 30 20:36	25° Ω 03'10		minimum elong	6407 Sep 14 19:23	26° Mp 07'33	0°47'57
evening set	6401 Jul 31 17:41	28° Ω 14'55		max. Earth dist.	6407 Sep 14 05:54		19.72675 AU
conjunction	6401 Aug 17 07:19	29° Ω 13'42	0027112	morning rise	6407 Oct 01 12:06 6407 Dec 01 11:21	27°₯08'06 0° <u>₽</u>	
minimum elong	6401 Aug 17 07:19	29° Ω 13'42		retrograde	6408 Jan 03 05:54	0° £ 28'36	
max. Earth dist.	6401 Aug 17 01:59		20.12209 AU	retrograde	6408 Feb 05 10:44	0 <u>—</u> 28 30 30°R, Mp	
man. Darui dist.	6401 Aug 30 07:33	0° m	20.1220) AU	opposition	6408 Mar 17 21:39	28° Mp 25'28	0°53'51
morning rise	6401 Sep 02 22:52	0° Mp 12'46		min. Earth dist.	6408 Mar 18 09:41		17.69680 AU
retrograde	6401 Dec 06 07:45	3° m/29'40		direct	6408 May 31 16:36	26° Mp 21'43	-,.0,000 110
opposition	6402 Feb 19 20:26	1° Mp 27'34	0°42'40	evening set	6408 Sep 02 03:14	29° mp 41'37	
min. Earth dist.	6402 Feb 20 01:35		18.08871 AU		6408 Sep 07 05:57	0° ي	
	6402 Mar 30 02:23	30°R Ω			·r ·· ···		
direct	6402 May 05 09:50	29° Ω 26'15		conjunction	6408 Sep 18 19:58	0° ≏ 42'19	0°48'46
	6402 Jun 10 06:00	0° m		minimum elong	6408 Sep 18 19:58	0° ≏ 42'19	0°48'46
				3	-		

max. Earth dist.	6408 Sep 18 05:23	0° ჲ 40'06	19.66749 AU	direct	6415 Jul 04 01:18	29° ഫ 00'22	
morning rise	6408 Oct 05 12:43	1° ≏ 43'04			6415 Aug 20 23:07	0° M	
retrograde	6409 Jan 07 04:59	5° £ 04'06		evening set	6415 Oct 07 00:42	2° M27'16	
opposition	6409 Mar 22 15:54	3° ჲ 00'49	0°54'37				
min. Earth dist.	6409 Mar 23 03:47	2° ჲ 59'31	17.63939 AU	conjunction	6415 Oct 23 16:59	3°M29'11	0°45'36
direct	6409 Jun 05 13:17	0° ჲ 56'43		minimum elong	6415 Oct 23 16:59	3°M29'11	0°45'37
evening set	6409 Sep 07 04:22	4° £ 17'44		max. Earth dist.	6415 Oct 22 22:46		19.37383 AU
				morning rise	6415 Nov 09 07:11	4°M30'51	
conjunction	6409 Sep 23 21:20	5° ≏ 18'41	0°49'17	retrograde	6416 Feb 10 01:50	7°M54'23	
minimum elong	6409 Sep 23 21:20	5° ≏ 18'41	0°49'18	opposition	6416 Apr 23 18:56	5°M51'14	0°49'56
max. Earth dist.	6409 Sep 23 06:18	5° ≙ 16'22	19.61191 AU	min. Earth dist.	6416 Apr 24 10:57	5° ™ 49'29	17.36133 AU
morning rise	6409 Oct 10 13:52	6° Ω 19'37		direct	6416 Jul 08 03:11	3°M45'43	
retrograde	6410 Jan 12 02:16	9° Ω 41'06		evening set	6416 Oct 11 05:51	7°M13'18	
opposition	6410 Mar 27 11:03	7° Ω 37'46	0°55'02				
min. Earth dist.	6410 Mar 28 00:22		17.58596 AU	conjunction	6416 Oct 27 21:34	8°M15'18	0°43'52
direct	6410 Jun 10 08:34	5° Ω 33'21		minimum elong	6416 Oct 27 21:34	8°M15'18	0°43'54
evening set	6410 Sep 12 06:16	8° ≏ 55'28		max. Earth dist.	6416 Oct 27 01:44		19.34928 AU
	(410.0 20.22.12	00 0 5 (127	0040100	morning rise	6416 Nov 13 11:18	9°M17'00	
conjunction	6410 Sep 28 23:13	9° Ω 56'37	0°49'29	retrograde	6417 Feb 14 01:35	12°M40'38	0947150
minimum elong	6410 Sep 28 23:13	9° Ω 56'37	0°49'29	opposition	6417 Apr 28 18:09	10°M37'32	
max. Earth dist.	6410 Sep 28 06:54		19.56073 AU	min. Earth dist.	6417 Apr 29 10:46		17.33899 AU
morning rise	6410 Oct 15 15:40	10° Ω 57'44		direct	6417 Jul 13 04:59 6417 Oct 16 11:02	8°M31'51 12°M00'03	
retrograde	6411 Jan 17 02:15	14° £ 19'41 12° £ 16'17	0055105	evening set max. Earth dist.			19.32911 AU
opposition min. Earth dist.	6411 Apr 01 06:40 6411 Apr 01 19:47		17.53713 AU	max. Earth dist.	6417 Nov 01 07:21	12 11639 00	19.32911 AU
direct	6411 Jun 15 06:19	12 ⊆ 14 31 10° ⊆ 11'37	17.33713 AU	conjunction	6417 Nov 02 02:28	13°M02'05	0°41'49
evening set	6411 Sep 17 08:46	10 ⊆ 11 37 13° ⊆ 34'48		minimum elong	6417 Nov 02 02:28	13°M02'05	0°41'51
max. Earth dist.	6411 Oct 03 09:43		19.51421 AU	morning rise	6417 Nov 18 15:23	14°ML03'48	0 41 31
max. Earth dist.	0411 001 03 07.43	14 - 33 41	17.51421 AO	morning 1130	6417 Dec 04 11:36	15°M	
conjunction	6411 Oct 04 01:49	14° ≏ 36'10	0°49'21	retrograde	6418 Feb 19 02:31	17°M27'27	
minimum elong	6411 Oct 04 01:49	14° ⊆ 36'10	0°49'23	opposition	6418 May 03 17:51	15°M24'25	0°45'23
morning rise	6411 Oct 20 17:51	15° ≏ 37'26	0 47 23	min. Earth dist.	6418 May 04 10:19		17.32099 AU
retrograde	6412 Jan 22 00:58	18° ⊆ 59'48		mm. Earth dist.	6418 May 13 02:04	15°RM	17.52077110
opposition	6412 Apr 05 03:07	16° ≏ 56'26	0°54'47	direct	6418 Jul 18 08:28	13°M18'36	
min. Earth dist.	6412 Apr 05 17:20		17.49303 AU		6418 Sep 19 19:38	15°M	
direct	6412 Jun 19 03:05	14° Ω 51'33		evening set	6418 Oct 21 16:21	16°M47'16	
evening set	6412 Sep 21 11:53	18° ≏ 15'45		max. Earth dist.	6418 Nov 06 10:57	17° M 46'10	19.31350 AU
max. Earth dist.	6412 Oct 07 11:12	19° ≏ 14'34	19.47257 AU				
				conjunction	6418 Nov 07 07:04	17° M 49'19	0°39'28
conjunction	6412 Oct 08 04:46	19° ≙ 17'17	0°48'54	minimum elong	6418 Nov 07 07:04	17° M 49'19	0°39'31
minimum elong	6412 Oct 08 04:46	19° ≙ 17'17	0°48'55	morning rise	6418 Nov 23 19:18	18°M51'01	
morning rise	6412 Oct 24 20:38	20° ≏ 18'42		retrograde	6419 Feb 24 02:21	22°M14'38	
retrograde	6413 Jan 26 01:40	23° ≏ 41'28		opposition	6419 May 08 17:56	20°M11'37	0°42'37
opposition	6413 Apr 10 00:06	21° ≏ 38′08	0°54'07	min. Earth dist.	6419 May 09 10:59	20°M09'46	17.30793 AU
min. Earth dist.	6413 Apr 10 14:24	21° ≏ 36'34	17.45372 AU	direct	6419 Jul 23 10:48	18°M05'40	
direct	6413 Jun 24 01:56	19° ჲ 33'04		evening set	6419 Oct 26 21:28	21°M34'43	
evening set	6413 Sep 26 15:42	22° ≏ 58'15					
				conjunction	6419 Nov 12 11:41	22°M36'44	0°36'51
conjunction	6413 Oct 13 08:34	23° ≏ 59'58	0°48'08	minimum elong	6419 Nov 12 11:41	22°M36'44	0°36'54
minimum elong	6413 Oct 13 08:34	23° ≏ 59'58	0°48'09	max. Earth dist.	6419 Nov 11 16:26		19.30304 AU
max. Earth dist.	6413 Oct 12 15:26		19.43540 AU	morning rise	6419 Nov 28 23:05	23°M38'24	
morning rise	6413 Oct 29 23:50	25° Ω 01'29		retrograde	6420 Feb 29 03:46	27°M01'53	
retrograde	6414 Jan 31 01:16	28° £ 24'33		opposition	6420 May 12 18:06	24°M58'56	
opposition	6414 Apr 14 21:44	26° Ω 21'17		min. Earth dist.	6420 May 13 10:21		17.30005 AU
min. Earth dist.	6414 Apr 15 12:59	26° ₽ 19'37	17.41871 AU	direct	6420 Jul 27 14:23	22°M52'52	
direct	6414 Jun 29 01:01	24° Ω 16'05		evening set	6420 Oct 31 02:28	26°M22'09	
evening set	6414 Oct 01 20:11	27° ≏ 42'10			(420 N 16 17 70	270m 2400	0022150
	(414.0 / 10.12.27	200 2 42152	0047102	conjunction	6420 Nov 16 15:58	27°M24'09	0°33'58
conjunction	6414 Oct 18 12:37	28° Ω 43'59	0°47'02	minimum elong	6420 Nov 16 15:58	27°M24'09	0°34'01
minimum elong	6414 Oct 18 12:37	28° Ω 43'59	0°47'04	max. Earth dist.	6420 Nov 15 20:32		19.29793 AU
max. Earth dist.	6414 Oct 17 17:44	28° ± 41'03 29° £ 45'36	19.40255 AU	morning rise	6420 Dec 03 02:35	28°M25'44 0°⊀	
morning rise	6414 Nov 04 03:33 6414 Nov 08 03:00	29° 32 45′36 0° M		retrograde	6420 Dec 30 13:54 6421 Mar 05 03:48	0° × ′ 1° × ⁷ 49′02	
retrograde	6414 Nov 08 03.00 6415 Feb 05 01:34	3°M08'57		renograde	6421 May 12 11:19	1 x 49 02 30°RM	
opposition	6415 Apr 19 20:03	1°M05'44	0°51'41	opposition	6421 May 17 18:39	29°M46'08	0°36'13
min. Earth dist.	6415 Apr 20 11:39		17.38802 AU	min. Earth dist.	6421 May 18 11:24		17.29783 AU
mm. Darm dist.	6415 May 16 03:56	1 11004 02 30°RΩ	17.30002 AU	direct	6421 Aug 01 16:45	27°M39'57	11.27103 AU
	0.110 1.11dy 10 00.00	20 II—		411001	5 12 1 1 1 1 5 0 1 1 0.73	- 1 IIU3731	

evening set	6421 Oct 16 13:38 6421 Nov 05 07:13	0° 尽 1° 尽 09'24		conjunction minimum elong	6427 Dec 21 09:48 6427 Dec 21 09:48	0°る42'57 0°る42'57	0°08'43 0°08'46
evening set	0421 1107 03 07.13	1 7 0724		behind sun begin	6427 Dec 21 04:02	0° 3 42'04	0 00 40
conjunction	6421 Nov 21 19:59	2° ₹ 11'19	0°30'52	behind sun end	6427 Dec 21 15:34	0° ප 43'50	
minimum elong	6421 Nov 21 19:59	2° ҂ 11'19	0°30'54	max. Earth dist.	6427 Dec 20 20:51	0° ප 40'56	19.43427 AU
max. Earth dist.	6421 Nov 21 01:23	2° ≯ 08'24	19.29870 AU	morning rise	6428 Jan 06 13:47	1° る 43'23	
morning rise	6421 Dec 08 05:44	3° х 12′49		retrograde	6428 Apr 07 00:20	5° පි 04'06	
retrograde	6422 Mar 10 04:48	6° ₹35'51		opposition	6428 Jun 19 23:54	3° る 02'22	
opposition	6422 May 22 19:11	4° 🗷 33'01	0°32'37	min. Earth dist.	6428 Jun 20 09:59		17.45433 AU
min. Earth dist. direct	6422 May 23 10:30 6422 Aug 06 20:24	4° × '31'21 2° × '26'49	17.30156 AU	direct evening set	6428 Sep 04 15:28 6428 Dec 09 03:52	0°る57'04 4°る24'46	
evening set	6422 Nov 10 11:38	5° × 756'17		evening set	0428 Dec 09 03.32	4 02440	
evening set	0422 1107 10 11.50	3 × 3017		conjunction	6428 Dec 25 10:12	5° ರ 25'26	0°04'43
conjunction	6422 Nov 26 23:35	6° ₹ '58'06	0°27'32	minimum elong	6428 Dec 25 10:12	5° පි 25'26	
minimum elong	6422 Nov 26 23:35	6° ≯ 758'06	0°27'35	behind sun begin	6428 Dec 25 03:41	5° る 24'27	
max. Earth dist.	6422 Nov 26 05:49	6° ₹ 55'18	19.30558 AU	behind sun end	6428 Dec 25 16:43	5° ಕ 26'26	
morning rise	6422 Dec 13 08:20	7° ∡ 759′28		max. Earth dist.	6428 Dec 24 23:20	5° る 23'45	19.47535 AU
retrograde	6423 Mar 15 04:17	11° ≯ 22'13		morning rise	6429 Jan 10 13:02	6° る 25'37	
opposition	6423 May 27 20:04	9° ∡ 19′28	0°28'48	retrograde	6429 Apr 11 21:47	9° ප 45'48	
min. Earth dist.	6423 May 28 11:33		17.31176 AU	opposition	6429 Jun 25 00:30	7° る 44'19	
direct	6423 Aug 11 22:42	7° ∡ 13'17		min. Earth dist.	6429 Jun 25 10:26		17.49723 AU
evening set	6423 Nov 15 15:29	10° ₹ 42'41	10 21014 ATT	direct	6429 Sep 09 17:54	5° る 39'16	
max. Earth dist.	6423 Dec 01 09:32	11°×'41'41	19.31914 AU	evening set	6429 Dec 14 04:31	9° る 06'20	
conjunction	6423 Dec 02 02:32	11° ∡ 744'22	0°24'02	conjunction	6429 Dec 30 09:37	10° る 06'44	0°00'38
minimum elong	6423 Dec 02 02:32	11° х 44'22	0°24'04	minimum elong	6429 Dec 30 09:36	10°る06'44	0°00'42
morning rise	6423 Dec 18 10:27	12° × ⁷ 45'35	0 2 1 0 1	behind sun begin	6429 Dec 30 02:58	10°る05'43	0 00 12
retrograde	6424 Mar 19 04:45	16° ≯ 08'00		behind sun end	6429 Dec 30 16:15	10°る07'44	
opposition	6424 May 31 20:51	14° ₹ 05'24	0°24'48	max. Earth dist.	6429 Dec 29 22:39	10° る 05'02	19.52003 AU
min. Earth dist.	6424 Jun 01 10:25	14° ∡ 03'55	17.32850 AU	morning rise	6430 Jan 15 11:36	11° る 06'39	
direct	6424 Aug 16 02:47	11° ∡ 759'17		desc. node	6430 Feb 24 20:36	13° る 16'49	
evening set	6424 Nov 19 19:03	15° ≮ 28'32		retrograde	6430 Apr 16 19:40	14° る 26'17	
		_		opposition	6430 Jun 30 00:45	12° る 25'00	
conjunction	6424 Dec 06 05:17	16° ₹ 30'04	0°20'22	min. Earth dist.	6430 Jun 30 09:10		17.54356 AU
minimum elong	6424 Dec 06 05:17	16° 🗷 30'04	0°20'25	direct	6430 Sep 14 20:37	10°る20'12	
max. Earth dist. morning rise	6424 Dec 05 13:50 6424 Dec 22 12:06	10°×'27'38 17°× 7 31'07	19.33915 AU	evening set	6430 Dec 19 04:10	13° る 46'33	
retrograde	6425 Mar 24 03:21	20° 🖈 53'09		conjunction	6431 Jan 04 08:25	14° 云 46'40	-0°03'29
opposition	6425 Jun 05 21:40	18° х 50'44	0°20'38	minimum elong	6431 Jan 04 08:24	14°る46'40	
min. Earth dist.	6425 Jun 06 11:22		17.35167 AU	behind sun begin	6431 Jan 04 01:48	14° පි 45'40	
direct	6425 Aug 21 05:15	16° ⊀ ¹44'46		behind sun end	6431 Jan 04 15:00	14° る 47'40	
evening set	6425 Nov 24 22:13	20° х 13'47		max. Earth dist.	6431 Jan 03 23:39	14° ⋜ 45'19	19.56786 AU
				morning rise	6431 Jan 20 09:16	15° る 46'20	
conjunction	6425 Dec 11 07:24	21° ≯ 15′07	0°16'34	retrograde	6431 Apr 21 16:13	19° る 05'21	
minimum elong	6425 Dec 11 07:24	21° ҂ 15'07	0°16'37	opposition	6431 Jul 05 00:44	17° る 04'16	
max. Earth dist.	6425 Dec 10 16:20		19.36550 AU	min. Earth dist.	6431 Jul 05 08:34		17.59271 AU
morning rise	6425 Dec 27 13:23	22° 🖈 15'59		direct	6431 Sep 19 22:16	14°る59'44	
retrograde opposition	6426 Mar 29 03:11 6426 Jun 10 22:28	25° ₹37'38 23° ₹35'26	0°16'20	evening set	6431 Dec 24 03:01	18° る 25'15	
min. Earth dist.	6426 Jun 11 10:16		17.38083 AU	conjunction	6432 Jan 09 06:06	19° る 25'05	-0°07'27
direct	6426 Aug 26 09:16	23 × 3409 21°×729'39	17.36063 AC	minimum elong	6432 Jan 09 06:05	19 3 25'05	
evening set	6426 Nov 30 00:37	24° × 58'20		behind sun begin	6432 Jan 09 00:01	19° る 24'10	0 0/2.
8				behind sun end	6432 Jan 09 12:10	19° ට 26'00	
conjunction	6426 Dec 16 08:56	25° ₹ 59'28	0°12'41	max. Earth dist.	6432 Jan 08 21:20	19° る 23'44	19.61837 AU
minimum elong	6426 Dec 16 08:56	25° ₹ 59'28	0°12'44	morning rise	6432 Jan 25 06:12	20°る24'28	
behind sun begin	6426 Dec 16 04:45	25° ₹ 58'49		retrograde	6432 Apr 25 12:46	23° る 42'52	
behind sun end	6426 Dec 16 13:07	26° ₹ 00'06		opposition	6432 Jul 09 00:14	21° る 41'57	
max. Earth dist.	6426 Dec 15 19:55		19.39738 AU	min. Earth dist.	6432 Jul 09 06:50		17.64448 AU
morning rise	6427 Jan 01 13:45	27° ₹ 00'07		direct	6432 Sep 23 23:07	19° る 37'40	
	6427 Mar 06 09:41	0°る		evening set	6432 Dec 28 00:53	23° る 02'18	
retrograde	6427 Apr 03 01:25	0° 궁 21'19		aaniyyti	6422 Ic. 12 02 06	240701150	0011121
opposition	6427 May 01 05:24 6427 Jun 15 23:24	30°R ☎ 28° ☎ 19'22	0°11'56	conjunction minimum elong	6433 Jan 13 03:06 6433 Jan 13 03:06	24°る01'50 24°る01'50	
min. Earth dist.	6427 Jun 16 11:10		17.41525 AU	behind sun begin	6433 Jan 12 22:13	24°る01'30 24°る01'06	V 1117
direct	6427 Aug 31 11:54	26° ₹ 13'49	17.11323 AU	behind sun end	6433 Jan 13 07:58	24°る01'00 24°る02'35	
evening set	6427 Dec 05 02:38	29° х 42'03		max. Earth dist.	6433 Jan 12 20:30		19.67128 AU
Č	6427 Dec 09 23:13	0°ರ		morning rise	6433 Jan 29 02:09	25° ප 00'56	
				-			

dimant	6445 Nov 22 19:01	17° ₩ 04'25		minimum alana	6452 Apr. 02 10:15	15° Y 55'03	0940126
direct				minimum elong	6452 Apr 03 19:15		
evening set	6446 Feb 23 06:19	20°) 14'46		max. Earth dist.	6452 Apr 04 11:50		20.82182 AU
				morning rise	6452 Apr 19 11:48	16° Y 49'37	
conjunction	6446 Mar 10 22:59	21° ∺ 10′24		retrograde	6452 Jul 21 00:32	19° Y 56'32	
minimum elong	6446 Mar 10 22:59	21° ∺ 10′24		opposition	6452 Oct 06 11:15	17° Ƴ 57'58	
max. Earth dist.	6446 Mar 11 09:40		20.50442 AU	min. Earth dist.	6452 Oct 05 19:32		18.84487 AU
morning rise	6446 Mar 26 15:06	22° ₭ 05'57		direct	6452 Dec 22 05:18	16° Y 00′02	
retrograde	6446 Jun 26 13:35	25° ∺ 15'30		evening set	6453 Mar 23 09:03	19° Ƴ 03'39	
opposition	6446 Sep 11 05:51	23° 升 16'42	-0°52'31				
min. Earth dist.	6446 Sep 10 19:36	23°) 17'44	18.53429 AU	conjunction	6453 Apr 08 00:51	19° Ƴ 57'57	-0°49'09
direct	6446 Nov 27 08:23	21° ℋ 17'10		minimum elong	6453 Apr 08 00:51	19° Ƴ 57'57	0°49'11
evening set	6447 Feb 27 15:39	24° ¥ 26′25		max. Earth dist.	6453 Apr 08 17:31	20° Y ′00′23	20.86674 AU
Ç				morning rise	6453 Apr 23 17:48	20° Y 52'26	
conjunction	6447 Mar 15 07:59	25°) 21'49	-0°47'57	retrograde	6453 Jul 25 10:22	23° Y 59'03	
minimum elong	6447 Mar 15 07:59	25° H 21'49		opposition	6453 Oct 10 22:12	22°Υ00'34	-0°54'01
max. Earth dist.	6447 Mar 15 19:02		20.56329 AU	min. Earth dist.	6453 Oct 10 04:55		18.88835 AU
		26°\(\frac{17}{10}\)	20.30329 AU	direct	6453 Dec 26 14:30	20° \begin{pmatrix} \cdot 02 & 18 \\ 20^{\circ}\begin{pmatrix} \chi 02 & 15 \\ 20^{\circ}\begin{pmatrix} \chi 02 & 15 \\ \chi \chi \chi \chi \chi \chi \chi \	10.00033 AU
morning rise	6447 Mar 31 00:06						
retrograde	6447 Jul 01 01:29	29° ₩ 26'10	00.5313.6	evening set	6454 Mar 27 14:08	23° Y 05'47	
opposition	6447 Sep 15 20:12	27° ₩ 27'25					
min. Earth dist.	6447 Sep 15 08:06		18.59176 AU	conjunction	6454 Apr 12 06:10	23° Y 59'59	
direct	6447 Dec 01 22:59	25° ∺ 28′08		minimum elong	6454 Apr 12 06:10	23° Y 59'59	0°48'30
evening set	6448 Mar 03 00:09	28° ∺ 36′20		max. Earth dist.	6454 Apr 13 00:16	24° Y 02'36	20.90856 AU
				morning rise	6454 Apr 27 23:23	24° Ƴ 54'22	
conjunction	6448 Mar 18 16:18	29°) 31′30	-0°48'48	retrograde	6454 Jul 29 18:17	28° Y 00'46	
minimum elong	6448 Mar 18 16:18	29°) 31'30	0°48'48	opposition	6454 Oct 15 08:48	26° Ƴ 02′20	-0°53'08
max. Earth dist.	6448 Mar 19 04:47	29°) 33′20	20.61936 AU	min. Earth dist.	6454 Oct 14 15:49	26° Y ′04'02	18.92849 AU
	6448 Mar 26 17:21	0° Y		direct	6454 Dec 30 23:06	24° Y 04'58	
morning rise	6448 Apr 03 08:19	0° Υ 26'40		evening set	6455 Mar 31 19:05	27° Υ 07'09	
retrograde	6448 Jul 04 10:38	3° Υ 35'10		evening see	0.00 1.141 51 17.00	27 . 07 07	
opposition	6448 Sep 19 10:08	1° Υ 36'26	0054122	conjunction	6455 Apr 16 11:15	28° Y 01'15	0047125
**	•		18.64666 AU	,	•	28° Υ 01'15	0°47'37
min. Earth dist.	6448 Sep 18 22:10		18.04000 AU	minimum elong	6455 Apr 16 11:15		
	6448 Nov 04 20:37	30° ₹		max. Earth dist.	6455 Apr 17 05:01		20.94693 AU
direct	6448 Dec 05 10:35	29°) 37′24		morning rise	6455 May 02 04:59	28° Y 55'34	
	6449 Jan 04 09:11	0°Υ			6455 May 22 03:16	0°8	
evening set	6449 Mar 07 07:53	2° Ƴ 44'34		retrograde	6455 Aug 03 04:03	2° 8 01'45	
				opposition	6455 Oct 19 18:41	0° 8 03'24	-0°52'00
conjunction	6449 Mar 22 23:45	3° Ƴ 39'31	-0°49'23	min. Earth dist.	6455 Oct 19 00:39	0° 8 05'12	18.96489 AU
minimum elong	6449 Mar 22 23:45	3° Ƴ 39'31	0°49'23		6455 Oct 21 04:43	30° ₹Ƴ	
max. Earth dist.	6449 Mar 23 12:44	3° ℃ 41'25	20.67312 AU	direct	6456 Jan 04 06:48	28° Y 06′15	
morning rise		3 1123		ancet	0430 Jan 04 00.48		
	6449 Apr 07 15:54	4° Υ 34'30		ancer	6456 Mar 13 20:12	0°8	
retrograde					6456 Mar 13 20:12		
retrograde opposition	6449 Apr 07 15:54 6449 Jul 08 21:36	4° Υ 34'30 7° Υ 42'32		evening set		0° 8 1° 8 07'50	
opposition	6449 Apr 07 15:54 6449 Jul 08 21:36 6449 Sep 23 23:19	4° Υ 34'30 7° Υ 42'32 5° Υ 43'49	-0°54'52	evening set	6456 Mar 13 20:12 6456 Apr 03 23:47	1° 8 07'50	-0°46'27
opposition min. Earth dist.	6449 Apr 07 15:54 6449 Jul 08 21:36 6449 Sep 23 23:19 6449 Sep 23 09:20	4°Υ34'30 7°Υ42'32 5°Υ43'49 5°Υ45'13		evening set	6456 Mar 13 20:12 6456 Apr 03 23:47 6456 Apr 19 16:17	1°807'50 2°801'51	
opposition min. Earth dist. direct	6449 Apr 07 15:54 6449 Jul 08 21:36 6449 Sep 23 23:19 6449 Sep 23 09:20 6449 Dec 09 23:32	4°Υ34'30 7°Υ42'32 5°Υ43'49 5°Υ45'13 3°Υ45'03	-0°54'52	evening set conjunction minimum elong	6456 Mar 13 20:12 6456 Apr 03 23:47 6456 Apr 19 16:17 6456 Apr 19 16:17	1°807'50 2°801'51 2°801'51	0°46'28
opposition min. Earth dist.	6449 Apr 07 15:54 6449 Jul 08 21:36 6449 Sep 23 23:19 6449 Sep 23 09:20	4°Υ34'30 7°Υ42'32 5°Υ43'49 5°Υ45'13	-0°54'52	evening set conjunction minimum elong max. Earth dist.	6456 Mar 13 20:12 6456 Apr 03 23:47 6456 Apr 19 16:17 6456 Apr 19 16:17 6456 Apr 20 11:05	1°807'50 2°801'51 2°801'51 2°804'34	
opposition min. Earth dist. direct evening set	6449 Apr 07 15:54 6449 Jul 08 21:36 6449 Sep 23 23:19 6449 Sep 23 09:20 6449 Dec 09 23:32 6450 Mar 11 14:59	4°Y34'30 7°Y42'32 5°Y43'49 5°Y45'13 3°Y45'03 6°Y51'14	-0°54'52 18.69937 AU	evening set conjunction minimum elong max. Earth dist. morning rise	6456 Apr 13 20:12 6456 Apr 03 23:47 6456 Apr 19 16:17 6456 Apr 19 16:17 6456 Apr 20 11:05 6456 May 05 10:21	1°807'50 2°801'51 2°801'51 2°804'34 2°856'08	0°46'28
opposition min. Earth dist. direct evening set conjunction	6449 Apr 07 15:54 6449 Jul 08 21:36 6449 Sep 23 23:19 6449 Sep 23 09:20 6449 Dec 09 23:32 6450 Mar 11 14:59 6450 Mar 27 06:47	4°Υ34'30 7°Υ42'32 5°Υ43'49 5°Υ45'13 3°Υ45'03 6°Υ51'14	-0°54'52 18.69937 AU -0°49'42	evening set conjunction minimum elong max. Earth dist. morning rise retrograde	6456 Mar 13 20:12 6456 Apr 03 23:47 6456 Apr 19 16:17 6456 Apr 19 16:17 6456 Apr 20 11:05 6456 May 05 10:21 6456 Aug 06 11:14	1°807'50 2°801'51 2°801'51 2°804'34 2°856'08 6°802'09	0°46'28 20.98112 AU
opposition min. Earth dist. direct evening set conjunction minimum elong	6449 Apr 07 15:54 6449 Jul 08 21:36 6449 Sep 23 23:19 6449 Sep 23 09:20 6449 Dec 09 23:32 6450 Mar 11 14:59 6450 Mar 27 06:47 6450 Mar 27 06:47	4°Υ34'30 7°Υ42'32 5°Υ43'49 5°Υ45'13 3°Υ45'03 6°Υ51'14 7°Υ46'00 7°Υ46'00	-0°54'52 18.69937 AU -0°49'42 0°49'44	evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	6456 Mar 13 20:12 6456 Apr 03 23:47 6456 Apr 19 16:17 6456 Apr 19 16:17 6456 Apr 20 11:05 6456 May 05 10:21 6456 Aug 06 11:14 6456 Oct 22 11:03	1°807'50 2°801'51 2°804'34 2°856'08 6°802'09 4°805'35	0°46'28 20.98112 AU 18.99685 AU
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	6449 Apr 07 15:54 6449 Jul 08 21:36 6449 Sep 23 23:19 6449 Sep 23 09:20 6449 Dec 09 23:32 6450 Mar 11 14:59 6450 Mar 27 06:47 6450 Mar 27 06:47 6450 Mar 27 21:28	4°Y34'30 7°Y42'32 5°Y43'49 5°Y45'13 3°Y45'03 6°Y51'14 7°Y46'00 7°Y46'00 7°Y48'09	-0°54'52 18.69937 AU -0°49'42	evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	6456 Mar 13 20:12 6456 Apr 03 23:47 6456 Apr 19 16:17 6456 Apr 19 16:17 6456 Apr 20 11:05 6456 May 05 10:21 6456 Aug 06 11:14 6456 Oct 22 11:03 6456 Oct 23 04:30	1°807'50 2°801'51 2°801'51 2°804'34 2°856'08 6°802'09 4°805'35 4°803'50	0°46'28 20.98112 AU 18.99685 AU
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	6449 Apr 07 15:54 6449 Jul 08 21:36 6449 Sep 23 23:19 6449 Sep 23 09:20 6449 Dec 09 23:32 6450 Mar 11 14:59 6450 Mar 27 06:47 6450 Mar 27 06:47 6450 Mar 27 21:28 6450 Apr 11 22:57	4°Y34'30 7°Y42'32 5°Y43'49 5°Y45'13 3°Y45'03 6°Y51'14 7°Y46'00 7°Y46'00 7°Y48'09 8°Y40'50	-0°54'52 18.69937 AU -0°49'42 0°49'44	evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	6456 Mar 13 20:12 6456 Apr 03 23:47 6456 Apr 19 16:17 6456 Apr 19 16:17 6456 Apr 20 11:05 6456 May 05 10:21 6456 Aug 06 11:14 6456 Oct 22 11:03 6456 Oct 23 04:30 6457 Jan 07 15:04	1°807'50 2°801'51 2°801'51 2°804'34 2°856'08 6°802'09 4°805'35 4°803'50 2°806'56	0°46'28 20.98112 AU 18.99685 AU
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	6449 Apr 07 15:54 6449 Jul 08 21:36 6449 Sep 23 23:19 6449 Sep 23 09:20 6449 Dec 09 23:32 6450 Mar 11 14:59 6450 Mar 27 06:47 6450 Mar 27 06:47 6450 Mar 27 21:28 6450 Apr 11 22:57 6450 Jul 13 06:01	4°Υ34'30 7°Υ42'32 5°Υ43'49 5°Υ45'13 3°Υ45'03 6°Υ51'14 7°Υ46'00 7°Υ46'00 7°Υ48'09 8°Υ40'50 11°Υ48'27	-0°54'52 18.69937 AU -0°49'42 0°49'44 20.72473 AU	evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	6456 Mar 13 20:12 6456 Apr 03 23:47 6456 Apr 19 16:17 6456 Apr 19 16:17 6456 Apr 20 11:05 6456 May 05 10:21 6456 Aug 06 11:14 6456 Oct 22 11:03 6456 Oct 23 04:30	1°807'50 2°801'51 2°801'51 2°804'34 2°856'08 6°802'09 4°805'35 4°803'50	0°46'28 20.98112 AU 18.99685 AU
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	6449 Apr 07 15:54 6449 Jul 08 21:36 6449 Sep 23 23:19 6449 Sep 23 09:20 6449 Dec 09 23:32 6450 Mar 11 14:59 6450 Mar 27 06:47 6450 Mar 27 06:47 6450 Mar 27 21:28 6450 Apr 11 22:57	4°Y34'30 7°Y42'32 5°Y43'49 5°Y45'13 3°Y45'03 6°Y51'14 7°Y46'00 7°Y46'00 7°Y48'09 8°Y40'50 11°Y48'27 9°Y49'46	-0°54'52 18.69937 AU -0°49'42 0°49'44 20.72473 AU -0°55'04	evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	6456 Mar 13 20:12 6456 Apr 03 23:47 6456 Apr 19 16:17 6456 Apr 19 16:17 6456 Apr 20 11:05 6456 May 05 10:21 6456 Aug 06 11:14 6456 Oct 22 11:03 6456 Oct 23 04:30 6457 Jan 07 15:04	1°807'50 2°801'51 2°801'51 2°804'34 2°856'08 6°802'09 4°805'35 4°803'50 2°806'56	0°46'28 20.98112 AU 18.99685 AU
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	6449 Apr 07 15:54 6449 Jul 08 21:36 6449 Sep 23 23:19 6449 Sep 23 09:20 6449 Dec 09 23:32 6450 Mar 11 14:59 6450 Mar 27 06:47 6450 Mar 27 06:47 6450 Mar 27 21:28 6450 Apr 11 22:57 6450 Jul 13 06:01	4°Y34'30 7°Y42'32 5°Y43'49 5°Y45'13 3°Y45'03 6°Y51'14 7°Y46'00 7°Y48'09 8°Y40'50 11°Y48'27 9°Y49'46 9°Y51'10	-0°54'52 18.69937 AU -0°49'42 0°49'44 20.72473 AU	evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	6456 Mar 13 20:12 6456 Apr 03 23:47 6456 Apr 19 16:17 6456 Apr 19 16:17 6456 Apr 20 11:05 6456 May 05 10:21 6456 Aug 06 11:14 6456 Oct 22 11:03 6456 Oct 23 04:30 6457 Jan 07 15:04	1°807'50 2°801'51 2°801'51 2°804'34 2°856'08 6°802'09 4°805'35 4°803'50 2°806'56	0°46'28 20.98112 AU 18.99685 AU -0°50'37
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	6449 Apr 07 15:54 6449 Jul 08 21:36 6449 Sep 23 23:19 6449 Sep 23 09:20 6449 Dec 09 23:32 6450 Mar 11 14:59 6450 Mar 27 06:47 6450 Mar 27 06:47 6450 Apr 11 22:57 6450 Jul 13 06:01 6450 Sep 28 11:56	4°Y34'30 7°Y42'32 5°Y43'49 5°Y45'13 3°Y45'03 6°Y51'14 7°Y46'00 7°Y46'00 7°Y48'09 8°Y40'50 11°Y48'27 9°Y49'46	-0°54'52 18.69937 AU -0°49'42 0°49'44 20.72473 AU -0°55'04	evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set	6456 Mar 13 20:12 6456 Apr 03 23:47 6456 Apr 19 16:17 6456 Apr 19 16:17 6456 Apr 20 11:05 6456 May 05 10:21 6456 Aug 06 11:14 6456 Oct 22 11:03 6456 Oct 23 04:30 6457 Jan 07 15:04 6457 Apr 08 04:16	1°807'50 2°801'51 2°804'34 2°856'08 6°802'09 4°805'35 4°803'50 2°806'56 5°807'56	0°46'28 20.98112 AU 18.99685 AU -0°50'37
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	6449 Apr 07 15:54 6449 Jul 08 21:36 6449 Sep 23 23:19 6449 Sep 23 09:20 6449 Dec 09 23:32 6450 Mar 11 14:59 6450 Mar 27 06:47 6450 Mar 27 06:47 6450 Mar 27 21:28 6450 Apr 11 22:57 6450 Jul 13 06:01 6450 Sep 28 11:56 6450 Sep 27 21:56	4°Y34'30 7°Y42'32 5°Y43'49 5°Y45'13 3°Y45'03 6°Y51'14 7°Y46'00 7°Y48'09 8°Y40'50 11°Y48'27 9°Y49'46 9°Y51'10	-0°54'52 18.69937 AU -0°49'42 0°49'44 20.72473 AU -0°55'04	evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction	6456 Mar 13 20:12 6456 Apr 03 23:47 6456 Apr 19 16:17 6456 Apr 19 16:17 6456 Apr 20 11:05 6456 May 05 10:21 6456 Aug 06 11:14 6456 Oct 22 11:03 6456 Oct 23 04:30 6457 Jan 07 15:04 6457 Apr 08 04:16	1°807'50 2°801'51 2°804'34 2°856'08 6°802'09 4°805'35 4°803'50 2°806'56 5°807'56	0°46'28 20.98112 AU 18.99685 AU -0°50'37
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	6449 Apr 07 15:54 6449 Jul 08 21:36 6449 Sep 23 23:19 6449 Sep 23 09:20 6449 Dec 09 23:32 6450 Mar 11 14:59 6450 Mar 27 06:47 6450 Mar 27 06:47 6450 Mar 27 21:28 6450 Apr 11 22:57 6450 Jul 13 06:01 6450 Sep 28 11:56 6450 Sep 27 21:56 6450 Dec 14 09:22	4°Y34'30 7°Y42'32 5°Y43'49 5°Y45'13 3°Y45'03 6°Y51'14 7°Y46'00 7°Y46'00 7°Y48'09 8°Y40'50 11°Y48'27 9°Y49'46 9°Y51'10 7°Y51'16	-0°54'52 18.69937 AU -0°49'42 0°49'44 20.72473 AU -0°55'04	evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong	6456 Mar 13 20:12 6456 Apr 03 23:47 6456 Apr 19 16:17 6456 Apr 19 16:17 6456 Apr 20 11:05 6456 May 05 10:21 6456 Aug 06 11:14 6456 Oct 22 11:03 6456 Oct 23 04:30 6457 Jan 07 15:04 6457 Apr 08 04:16 6457 Apr 23 20:59 6457 Apr 23 20:59	1°807'50 2°801'51 2°804'34 2°856'08 6°802'09 4°805'35 4°803'50 2°806'56 5°807'56	0°46'28 20.98112 AU 18.99685 AU -0°50'37 -0°45'06 0°45'08
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6449 Apr 07 15:54 6449 Jul 08 21:36 6449 Sep 23 23:19 6449 Sep 23 09:20 6449 Dec 09 23:32 6450 Mar 11 14:59 6450 Mar 27 06:47 6450 Mar 27 06:47 6450 Mar 27 21:28 6450 Apr 11 22:57 6450 Jul 13 06:01 6450 Sep 28 11:56 6450 Sep 27 21:56 6450 Dec 14 09:22	4°Y34'30 7°Y42'32 5°Y43'49 5°Y45'13 3°Y45'03 6°Y51'14 7°Y46'00 7°Y46'00 7°Y48'09 8°Y40'50 11°Y48'27 9°Y49'46 9°Y51'10 7°Y51'16	-0°54'52 18.69937 AU -0°49'42 0°49'44 20.72473 AU -0°55'04 18.75008 AU	evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise	6456 Mar 13 20:12 6456 Apr 03 23:47 6456 Apr 19 16:17 6456 Apr 19 16:17 6456 Apr 20 11:05 6456 May 05 10:21 6456 Aug 06 11:14 6456 Oct 22 11:03 6456 Oct 23 04:30 6457 Apr 08 04:16 6457 Apr 23 20:59 6457 Apr 23 20:59 6457 Apr 24 15:07 6457 May 09 15:39	1°807'50 2°801'51 2°804'34 2°856'08 6°802'09 4°805'35 4°803'50 2°806'56 5°807'56 6°801'53 6°801'53 6°804'30 6°856'07	0°46'28 20.98112 AU 18.99685 AU -0°50'37 -0°45'06 0°45'08
opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6449 Apr 07 15:54 6449 Jul 08 21:36 6449 Sep 23 23:19 6449 Sep 23 09:20 6449 Dec 09 23:32 6450 Mar 11 14:59 6450 Mar 27 06:47 6450 Mar 27 06:47 6450 Mar 27 21:28 6450 Apr 11 22:57 6450 Jul 13 06:01 6450 Sep 28 11:56 6450 Sep 27 21:56 6450 Dec 14 09:22 6451 Mar 15 21:28	4°Y34'30 7°Y42'32 5°Y45'13 3°Y45'03 6°Y51'14 7°Y46'00 7°Y46'00 7°Y48'09 8°Y40'50 11°Y48'27 9°Y51'10 7°Y51'16 10°Y56'31	-0°54'52 18.69937 AU -0°49'42 0°49'44 20.72473 AU -0°55'04 18.75008 AU	evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	6456 Mar 13 20:12 6456 Apr 03 23:47 6456 Apr 19 16:17 6456 Apr 19 16:17 6456 Apr 20 11:05 6456 May 05 10:21 6456 Aug 06 11:14 6456 Oct 22 11:03 6456 Oct 23 04:30 6457 Apr 08 04:16 6457 Apr 23 20:59 6457 Apr 23 20:59 6457 Apr 24 15:07 6457 May 09 15:39 6457 Aug 10 21:07	1°807'50 2°801'51 2°804'34 2°856'08 6°802'09 4°805'35 4°803'50 2°806'56 5°807'56 6°801'53 6°801'53 6°804'30 6°856'07 10°802'02	0°46'28 20.98112 AU 18.99685 AU -0°50'37 -0°45'06 0°45'08 21.01077 AU
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	6449 Apr 07 15:54 6449 Jul 08 21:36 6449 Sep 23 23:19 6449 Sep 23 09:20 6449 Dec 09 23:32 6450 Mar 11 14:59 6450 Mar 27 06:47 6450 Mar 27 06:47 6450 Mar 27 21:28 6450 Apr 11 22:57 6450 Jul 13 06:01 6450 Sep 28 11:56 6450 Sep 27 21:56 6450 Dec 14 09:22 6451 Mar 15 21:28 6451 Mar 31 13:12 6451 Mar 31 13:11	4°Y34'30 7°Y42'32 5°Y45'13 3°Y45'03 6°Y51'14 7°Y46'00 7°Y46'00 7°Y48'09 8°Y40'50 11°Y48'27 9°Y49'46 9°Y51'10 7°Y51'16 10°Y56'31	-0°54'52 18.69937 AU -0°49'42 0°49'44 20.72473 AU -0°55'04 18.75008 AU -0°49'46 0°49'47	evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	6456 Mar 13 20:12 6456 Apr 03 23:47 6456 Apr 19 16:17 6456 Apr 19 16:17 6456 Apr 20 11:05 6456 May 05 10:21 6456 Aug 06 11:14 6456 Oct 22 11:03 6456 Oct 23 04:30 6457 Jan 07 15:04 6457 Apr 08 04:16 6457 Apr 23 20:59 6457 Apr 23 20:59 6457 Apr 24 15:07 6457 May 09 15:39 6457 Aug 10 21:07 6457 Oct 27 13:57	1°807'50 2°801'51 2°804'34 2°856'08 6°802'09 4°805'35 4°803'50 2°806'56 5°807'56 6°801'53 6°804'30 6°856'07 10°802'02 8°803'43	0°46'28 20.98112 AU 18.99685 AU -0°50'37 -0°45'06 0°45'08 21.01077 AU
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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. morning rise	6449 Apr 07 15:54 6449 Jul 08 21:36 6449 Sep 23 23:19 6449 Sep 23 09:20 6449 Dec 09 23:32 6450 Mar 11 14:59 6450 Mar 27 06:47 6450 Mar 27 06:47 6450 Mar 27 21:28 6450 Apr 11 22:57 6450 Jul 13 06:01 6450 Sep 28 11:56 6450 Sep 27 21:56 6450 Dec 14 09:22 6451 Mar 31 13:12 6451 Mar 31 13:11 6451 Apr 01 04:12 6451 Apr 16 05:38	4°Y34'30 7°Y42'32 5°Y45'13 3°Y45'03 6°Y51'14 7°Y46'00 7°Y46'00 7°Y48'09 8°Y40'50 11°Y48'27 9°Y49'46 9°Y51'10 7°Y51'16 10°Y56'31 11°Y51'07 11°Y53'19 12°Y45'49	-0°54'52 18.69937 AU -0°49'42 0°49'44 20.72473 AU -0°55'04 18.75008 AU -0°49'46 0°49'47	evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	6456 Mar 13 20:12 6456 Apr 03 23:47 6456 Apr 19 16:17 6456 Apr 19 16:17 6456 Apr 20 11:05 6456 May 05 10:21 6456 Aug 06 11:14 6456 Oct 22 11:03 6456 Oct 23 04:30 6457 Jan 07 15:04 6457 Apr 08 04:16 6457 Apr 23 20:59 6457 Apr 23 20:59 6457 Apr 24 15:07 6457 May 09 15:39 6457 Oct 27 13:57 6457 Oct 26 19:46 6458 Jan 11 22:28	1°807'50 2°801'51 2°801'51 2°804'34 2°856'08 6°802'09 4°805'35 4°803'50 2°806'56 5°807'56 6°801'53 6°801'53 6°804'30 6°856'07 10°802'02 8°803'43 8°805'32 6°806'59	0°46'28 20.98112 AU 18.99685 AU -0°50'37 -0°45'06 0°45'08 21.01077 AU
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. morning rise retrograde	6449 Apr 07 15:54 6449 Jul 08 21:36 6449 Sep 23 23:19 6449 Sep 23 09:20 6449 Dec 09 23:32 6450 Mar 11 14:59 6450 Mar 27 06:47 6450 Mar 27 06:47 6450 Mar 27 21:28 6450 Apr 11 22:57 6450 Jul 13 06:01 6450 Sep 28 11:56 6450 Sep 27 21:56 6450 Dec 14 09:22 6451 Mar 31 13:12 6451 Mar 31 13:11 6451 Apr 01 04:12 6451 Apr 16 05:38 6451 Jul 17 16:19	4°Y34'30 7°Y42'32 5°Y43'49 5°Y45'13 3°Y45'03 6°Y51'14 7°Y46'00 7°Y46'00 7°Y48'09 8°Y40'50 11°Y48'27 9°Y49'46 9°Y51'10 7°Y51'16 10°Y56'31 11°Y51'07 11°Y53'19 12°Y45'49 15°Y53'03	-0°54'52 18.69937 AU -0°49'42 0°49'44 20.72473 AU -0°55'04 18.75008 AU -0°49'46 0°49'47 20.77445 AU	evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	6456 Mar 13 20:12 6456 Apr 03 23:47 6456 Apr 19 16:17 6456 Apr 19 16:17 6456 Apr 20 11:05 6456 May 05 10:21 6456 Aug 06 11:14 6456 Oct 22 11:03 6456 Oct 23 04:30 6457 Jan 07 15:04 6457 Apr 08 04:16 6457 Apr 23 20:59 6457 Apr 24 15:07 6457 May 09 15:39 6457 Aug 10 21:07 6457 Oct 27 13:57 6457 Oct 26 19:46	1°807'50 2°801'51 2°801'51 2°804'34 2°856'08 6°802'09 4°805'35 4°803'50 2°806'56 5°807'56 6°801'53 6°801'53 6°804'30 6°856'07 10°802'02 8°803'43 8°805'32	0°46'28 20.98112 AU 18.99685 AU -0°50'37 -0°45'06 0°45'08 21.01077 AU
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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. morning rise retrograde opposition minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	6449 Apr 07 15:54 6449 Jul 08 21:36 6449 Sep 23 23:19 6449 Sep 23 09:20 6449 Dec 09 23:32 6450 Mar 11 14:59 6450 Mar 27 06:47 6450 Mar 27 06:47 6450 Mar 27 21:28 6450 Apr 11 22:57 6450 Jul 13 06:01 6450 Sep 28 11:56 6450 Sep 27 21:56 6450 Dec 14 09:22 6451 Mar 31 13:12 6451 Mar 31 13:11 6451 Apr 01 04:12 6451 Apr 16 05:38 6451 Jul 17 16:19 6451 Oct 02 23:50 6451 Oct 02 07:59	4°Y34'30 7°Y42'32 5°Y45'13 3°Y45'03 6°Y51'14 7°Y46'00 7°Y46'00 7°Y48'09 8°Y40'50 11°Y48'27 9°Y49'46 9°Y51'10 7°Y51'16 10°Y56'31 11°Y51'07 11°Y51'07 11°Y53'19 12°Y45'49 15°Y53'03 13°Y54'25 13°Y56'00	-0°54'52 18.69937 AU -0°49'42 0°49'44 20.72473 AU -0°55'04 18.75008 AU -0°49'46 0°49'47 20.77445 AU	evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6456 Mar 13 20:12 6456 Apr 03 23:47 6456 Apr 19 16:17 6456 Apr 19 16:17 6456 Apr 20 11:05 6456 May 05 10:21 6456 Aug 06 11:14 6456 Oct 22 11:03 6456 Oct 23 04:30 6457 Jan 07 15:04 6457 Apr 08 04:16 6457 Apr 23 20:59 6457 Apr 23 20:59 6457 Apr 24 15:07 6457 May 09 15:39 6457 Aug 10 21:07 6457 Oct 26 19:46 6458 Jan 11 22:28 6458 Apr 28 01:51	1°807'50 2°801'51 2°804'34 2°856'08 6°802'09 4°805'35 4°803'50 2°806'56 5°807'56 6°801'53 6°801'53 6°804'30 6°856'07 10°802'02 8°803'43 8°805'32 6°806'59 9°807'28	0°46'28 20.98112 AU 18.99685 AU -0°50'37 -0°45'06 0°45'08 21.01077 AU -0°48'59 19.02400 AU
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	6449 Apr 07 15:54 6449 Jul 08 21:36 6449 Sep 23 23:19 6449 Sep 23 09:20 6449 Dec 09 23:32 6450 Mar 11 14:59 6450 Mar 27 06:47 6450 Mar 27 06:47 6450 Mar 27 21:28 6450 Apr 11 22:57 6450 Jul 13 06:01 6450 Sep 28 11:56 6450 Sep 27 21:56 6450 Dec 14 09:22 6451 Mar 31 13:12 6451 Mar 31 13:11 6451 Apr 01 04:12 6451 Apr 16 05:38 6451 Jul 17 16:19 6451 Oct 02 23:50 6451 Oct 02 07:59 6451 Dec 18 20:25	4°Y34'30 7°Y42'32 5°Y45'13 3°Y45'03 6°Y51'14 7°Y46'00 7°Y46'00 7°Y48'09 8°Y40'50 11°Y48'27 9°Y49'46 9°Y51'10 7°Y51'16 10°Y56'31 11°Y51'07 11°Y51'07 11°Y53'19 12°Y45'49 15°Y53'03 13°Y54'25 13°Y56'00 11°Y56'12	-0°54'52 18.69937 AU -0°49'42 0°49'44 20.72473 AU -0°55'04 18.75008 AU -0°49'46 0°49'47 20.77445 AU	evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition 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	6456 Mar 13 20:12 6456 Apr 03 23:47 6456 Apr 19 16:17 6456 Apr 19 16:17 6456 Apr 20 11:05 6456 May 05 10:21 6456 Aug 06 11:14 6456 Oct 22 11:03 6456 Oct 23 04:30 6457 Jan 07 15:04 6457 Apr 08 04:16 6457 Apr 23 20:59 6457 Apr 23 20:59 6457 Apr 24 15:07 6457 May 09 15:39 6457 Aug 10 21:07 6457 Oct 27 13:57 6457 Oct 26 19:46 6458 Apr 12 08:40 6458 Apr 28 01:51 6458 Apr 28 01:51	1°807'50 2°801'51 2°804'34 2°856'08 6°802'09 4°805'35 4°803'50 2°806'56 5°807'56 6°801'53 6°801'53 6°804'30 6°856'07 10°802'02 8°803'43 8°805'32 6°806'59 9°807'28	0°46'28 20.98112 AU 18.99685 AU -0°50'37 -0°45'06 0°45'08 21.01077 AU -0°48'59 19.02400 AU -0°43'32 0°43'33
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. morning rise retrograde opposition minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	6449 Apr 07 15:54 6449 Jul 08 21:36 6449 Sep 23 23:19 6449 Sep 23 09:20 6449 Dec 09 23:32 6450 Mar 11 14:59 6450 Mar 27 06:47 6450 Mar 27 06:47 6450 Mar 27 21:28 6450 Apr 11 22:57 6450 Jul 13 06:01 6450 Sep 28 11:56 6450 Sep 27 21:56 6450 Dec 14 09:22 6451 Mar 31 13:12 6451 Mar 31 13:11 6451 Apr 01 04:12 6451 Apr 16 05:38 6451 Jul 17 16:19 6451 Oct 02 23:50 6451 Oct 02 07:59	4°Y34'30 7°Y42'32 5°Y45'13 3°Y45'03 6°Y51'14 7°Y46'00 7°Y46'00 7°Y48'09 8°Y40'50 11°Y48'27 9°Y49'46 9°Y51'10 7°Y51'16 10°Y56'31 11°Y51'07 11°Y51'07 11°Y53'19 12°Y45'49 15°Y53'03 13°Y54'25 13°Y56'00	-0°54'52 18.69937 AU -0°49'42 0°49'44 20.72473 AU -0°55'04 18.75008 AU -0°49'46 0°49'47 20.77445 AU	evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	6456 Mar 13 20:12 6456 Apr 03 23:47 6456 Apr 19 16:17 6456 Apr 19 16:17 6456 Apr 20 11:05 6456 May 05 10:21 6456 Aug 06 11:14 6456 Oct 22 11:03 6456 Oct 23 04:30 6457 Jan 07 15:04 6457 Apr 08 04:16 6457 Apr 23 20:59 6457 Apr 23 20:59 6457 Apr 24 15:07 6457 May 09 15:39 6457 Aug 10 21:07 6457 Oct 26 19:46 6458 Jan 11 22:28 6458 Apr 28 01:51	1°807'50 2°801'51 2°804'34 2°856'08 6°802'09 4°805'35 4°803'50 2°806'56 5°807'56 6°801'53 6°801'53 6°804'30 6°856'07 10°802'02 8°803'43 8°805'32 6°806'59 9°807'28 10°801'23 10°801'23 10°801'23 10°804'06	0°46'28 20.98112 AU 18.99685 AU -0°50'37 -0°45'06 0°45'08 21.01077 AU -0°48'59 19.02400 AU
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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	6449 Apr 07 15:54 6449 Jul 08 21:36 6449 Sep 23 23:19 6449 Sep 23 09:20 6449 Dec 09 23:32 6450 Mar 11 14:59 6450 Mar 27 06:47 6450 Mar 27 06:47 6450 Mar 27 21:28 6450 Apr 11 22:57 6450 Jul 13 06:01 6450 Sep 28 11:56 6450 Sep 27 21:56 6450 Dec 14 09:22 6451 Mar 31 13:12 6451 Mar 31 13:11 6451 Apr 01 04:12 6451 Apr 16 05:38 6451 Jul 17 16:19 6451 Oct 02 23:50 6451 Oct 02 07:59 6451 Dec 18 20:25	4°Y34'30 7°Y42'32 5°Y45'13 3°Y45'03 6°Y51'14 7°Y46'00 7°Y46'00 7°Y48'09 8°Y40'50 11°Y48'27 9°Y49'46 9°Y51'10 7°Y51'16 10°Y56'31 11°Y51'07 11°Y51'07 11°Y53'19 12°Y45'49 15°Y53'03 13°Y54'25 13°Y56'00 11°Y56'12	-0°54'52 18.69937 AU -0°49'42 0°49'44 20.72473 AU -0°55'04 18.75008 AU -0°49'46 0°49'47 20.77445 AU -0°54'59 18.79872 AU	evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition 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	6456 Mar 13 20:12 6456 Apr 03 23:47 6456 Apr 19 16:17 6456 Apr 19 16:17 6456 Apr 20 11:05 6456 May 05 10:21 6456 Aug 06 11:14 6456 Oct 22 11:03 6456 Oct 23 04:30 6457 Jan 07 15:04 6457 Apr 08 04:16 6457 Apr 23 20:59 6457 Apr 23 20:59 6457 Apr 24 15:07 6457 May 09 15:39 6457 Aug 10 21:07 6457 Oct 27 13:57 6457 Oct 26 19:46 6458 Apr 12 08:40 6458 Apr 28 01:51 6458 Apr 28 01:51 6458 Apr 28 20:42	1°807'50 2°801'51 2°804'34 2°856'08 6°802'09 4°805'35 4°803'50 2°806'56 5°807'56 6°801'53 6°801'53 6°804'30 6°856'07 10°802'02 8°803'43 8°805'32 6°806'59 9°807'28 10°801'23 10°801'23 10°801'23 10°804'06	0°46'28 20.98112 AU 18.99685 AU -0°50'37 -0°45'06 0°45'08 21.01077 AU -0°48'59 19.02400 AU -0°43'32 0°43'33

opposition	6458 Oct 31 23:02	12° 8 03'05	-0°47'08	min. Earth dist.	6464 Nov 24 06:53		19.07083 AU
min. Earth dist.	6458 Oct 31 05:39	_	19.04570 AU	direct	6465 Feb 08 19:02	3° Ⅱ 53'58	
direct	6459 Jan 16 05:48	10° 8 06'29		evening set	6465 May 09 13:26	6° ∏ 52′29	
evening set	6459 Apr 16 13:00	13° 8 06'30					
				conjunction	6465 May 25 10:37	7° ∏ 46'36	
conjunction	6459 May 02 06:34	14° 8 00'23		minimum elong	6465 May 25 10:37	7° Ⅱ 46'36	
minimum elong	6459 May 02 06:34	14° 8 00'23		max. Earth dist.	6465 May 26 03:36		21.06613 AU
max. Earth dist.	6459 May 03 00:21		21.05418 AU	morning rise	6465 Jun 10 10:54	8° ∏ 41'09	
morning rise	6459 May 18 02:26	14° 8 54'36		retrograde	6465 Sep 12 09:30	11° ∏ 47'13	
	6459 May 19 17:02	15° 8		opposition	6465 Nov 29 06:36	9° ∏ 48'09	
retrograde	6459 Aug 19 13:05	18° 8 00'19		min. Earth dist.	6465 Nov 28 14:14		19.06093 AU
opposition	6459 Nov 05 07:46	16° 8 01'56		direct	6466 Feb 13 00:18	7° ∏ 51'34	
min. Earth dist.	6459 Nov 04 14:02	_	19.06187 AU	evening set	6466 May 13 17:59	10° ∏ 50′08	
	6459 Dec 02 14:39	15° ₹ 8				🗨	
direct	6460 Jan 20 13:02	14° 8 05'23		conjunction	6466 May 29 16:01	11° Ⅱ 44'21	
_	6460 Mar 07 13:31	15° 8		minimum elong	6466 May 29 16:01	11° Ⅱ 44'21	
evening set	6460 Apr 19 17:04	17° 8 04'59		max. Earth dist.	6466 May 30 09:32		21.05433 AU
				morning rise	6466 Jun 14 17:01	12° ∏ 39′02	
conjunction	6460 May 05 11:13	17° 8 58'52		retrograde	6466 Sep 16 17:20	15° ∏ 45'19	
minimum elong	6460 May 05 11:13	17° 8 58'52		opposition	6466 Dec 03 13:50	13° ∐ 46'11	
max. Earth dist.	6460 May 06 05:37	_	21.06751 AU	min. Earth dist.	6466 Dec 02 22:10		19.04722 AU
morning rise	6460 May 21 07:36	18° 8 53'06		direct	6467 Feb 17 05:30	11° ∏ 49'35	
retrograde	6460 Aug 22 19:01	21° 8 58'46		evening set	6467 May 17 22:57	14° ∏ 48'16	
opposition	6460 Nov 08 16:13	20° 8 00'16				_	
min. Earth dist.	6460 Nov 07 23:17		19.07250 AU	conjunction	6467 Jun 02 21:39	15° Ⅱ 42'37	
direct	6461 Jan 23 19:31	18° 8 03'46		minimum elong	6467 Jun 02 21:39	15° ∐ 42'37	
evening set	6461 Apr 23 21:09	21° 8 03'00		max. Earth dist.	6467 Jun 03 13:48		21.03886 AU
				morning rise	6467 Jun 18 23:38	16° ∏ 37'25	
conjunction	6461 May 09 15:45	21° 8 56'53		retrograde	6467 Sep 21 02:19	19° ∏ 44'01	
minimum elong	6461 May 09 15:45	21° 8 56'53		opposition	6467 Dec 07 21:12	17° ∏ 44'49	
max. Earth dist.	6461 May 10 09:14	_	21.07577 AU	min. Earth dist.	6467 Dec 07 05:48		19.02979 AU
morning rise	6461 May 25 12:57	22° 8 51'09		direct	6468 Feb 21 10:29	15° ∏ 48'11	
retrograde	6461 Aug 27 03:42	25° 8 56'47		evening set	6468 May 21 04:07	18° ∏ 47'04	
min. Earth dist.	6461 Nov 12 07:06	_	19.07837 AU				
opposition	6461 Nov 13 00:20	23° 8 58'10	-0°40'16	conjunction	6468 Jun 06 03:42	19° ∏ 41'33	
direct	6462 Jan 28 02:13	22° 8 01'39		minimum elong	6468 Jun 06 03:42	19° Ⅱ 41'33	
evening set	6462 Apr 28 01:02	25° 8 00'35		max. Earth dist.	6468 Jun 06 20:13		21.01938 AU
		4.4		morning rise	6468 Jun 22 06:23	20° ∏ 36'30	
conjunction	6462 May 13 20:19	25° 8 54'30		retrograde	6468 Sep 24 10:40	23° ∐ 43′26	
minimum elong	6462 May 13 20:19	25° 8 54'30		opposition	6468 Dec 11 04:43	21° ∏ 44'11	
max. Earth dist.	6462 May 14 14:36		21.07930 AU	min. Earth dist.	6468 Dec 10 14:08		19.00819 AU
morning rise	6462 May 29 18:10	26° 8 48'48		direct	6469 Feb 24 16:01	19° ∏ 47'32	
retrograde	6462 Aug 31 09:51	29° 8 54'28		evening set	6469 May 25 10:00	22° ∏ 46'41	
opposition	6462 Nov 17 08:12	27° 8 55'43					
min. Earth dist.	6462 Nov 16 15:36		19.07973 AU	conjunction	6469 Jun 10 10:17	23° Ⅱ 41'19	
direct	6463 Feb 01 07:56	25° 8 59'12		minimum elong	6469 Jun 10 10:17	23° Ⅱ 41'19	0°14'56
evening set	6463 May 02 05:08	28° 8 57'54		behind sun begin	6469 Jun 10 07:48	23° Ⅱ 40'58	
	(4(2))	2001 35	0022145	behind sun end	6469 Jun 10 12:46	23° ∏ 41'40	20.00550
conjunction	6463 May 18 00:57	29° 8 51'52		max. Earth dist.	6469 Jun 11 01:09		20.99579 AU
minimum elong	6463 May 18 00:57	29° 8 51'52		morning rise	6469 Jun 26 13:58	24° ∏ 36′26	
max. Earth dist.	6463 May 18 18:15	_	21.07871 AU	retrograde	6469 Sep 28 20:48	27° Ⅱ 43'46	
	6463 May 20 09:41	0°II		opposition	6469 Dec 15 12:17	25° ∏ 44'26	
morning rise	6463 Jun 02 23:38	0° Ⅱ 46′14		min. Earth dist.	6469 Dec 14 22:25		18.98239 AU
retrograde	6463 Sep 04 18:05	3° Ⅱ 51'58		direct	6470 Feb 28 21:14	23° ∏ 47'42	
opposition	6463 Nov 21 15:40	1° Ⅱ 53'06		evening set	6470 May 29 16:19	26° Ⅱ 47'12	
min. Earth dist.	6463 Nov 20 22:51		19.07720 AU				
	6464 Jan 24 20:57	30° ₹8		conjunction	6470 Jun 14 17:34	27° Ⅱ 42'01	
direct	6464 Feb 05 13:47	29° 8 56'33		minimum elong	6470 Jun 14 17:34	27° I 42'01	0°11'35
	6464 Feb 17 03:34	0°II		behind sun begin	6470 Jun 14 12:49	27° Ⅱ 41'21	
evening set	6464 May 05 09:14	2° Ⅱ 55'09		behind sun end	6470 Jun 14 22:18	27° Ⅱ 42'41	
		_		max. Earth dist.	6470 Jun 15 08:25		20.96757 AU
conjunction	6464 May 21 05:47	3° Ⅱ 49'11		morning rise	6470 Jun 30 22:00	28° ∏ 37'18	
minimum elong	6464 May 21 05:47	3° Ⅱ 49'11			6470 Jul 27 07:09	0ಂ ತಾ	
max. Earth dist.	6464 May 21 23:48		21.07420 AU	retrograde	6470 Oct 03 05:31	1°545'03	
morning rise	6464 Jun 06 05:08	4° Ⅱ 43'37			6470 Dec 13 21:54	30°RⅡ	
retrograde	6464 Sep 08 01:06	7° Ⅱ 49'29		opposition	6470 Dec 19 20:02	29° Ⅱ 45'38	
opposition	6464 Nov 24 23:11	5° Ⅱ 50'31	-0°31'41	min. Earth dist.	6470 Dec 19 07:19	29° ∏ 46′56	18.95165 AU

direct	6471 Mar 05 03:09	27° II 48'48		behind sun begin	6476 Jul 08 19:53	22°506'31	
	6471 May 18 23:23	0°9 0°948'43		behind sun end max. Earth dist.	6476 Jul 09 06:57 6476 Jul 09 09:03	22°508'04	20.69904 AU
evening set	6471 Jun 02 23:24	0 204843		morning rise	6476 Jul 25 10:58	22 \$00 22 23°\$03'52	20.09904 AU
conjunction	6471 Jun 19 01:22	1° 5 43'43	0.08,08	retrograde	6476 Oct 27 23:21	26°9514'31	
minimum elong	6471 Jun 19 01:22	1°943'43	0°08'11	opposition	6477 Jan 12 22:55	24°9513'56	0°12'30
behind sun begin	6471 Jun 18 19:29	1°942'53	0 00 11	min. Earth dist.	6477 Jan 12 16:50		18.67068 AU
behind sun end	6471 Jun 19 07:15	1°944'32		direct	6477 Mar 28 20:26	22°915'33	10.07000710
max. Earth dist.	6471 Jun 19 14:03		20.93438 AU	evening set	6477 Jun 27 05:40	25°518'59	
morning rise	6471 Jul 05 06:47	2°939'11	20.90 .50 .110	evening sec	01// Van 2/ 00.10	20 01007	
retrograde	6471 Oct 07 16:23	5°547'22		conjunction	6477 Jul 13 12:57	26°©15'21	0°13'03
opposition	6471 Dec 24 03:56	3°9647'50	-0°06'59	minimum elong	6477 Jul 13 12:57	26°515'21	0°13'01
min. Earth dist.	6471 Dec 23 16:21	3°549'01	18.91588 AU	behind sun begin	6477 Jul 13 08:58	26°9514'47	
direct	6472 Mar 08 08:59	1°950'50		behind sun end	6477 Jul 13 16:56	26°©15'55	
evening set	6472 Jun 06 06:54	4° © 51'12		max. Earth dist.	6477 Jul 13 18:20	26°516'07	20.64210 AU
				morning rise	6477 Jul 29 23:29	27° © 12'11	
conjunction	6472 Jun 22 09:52	5° © 46'25	-0°04'41		6477 Oct 01 18:24	$0^{\circ}\Omega$	
minimum elong	6472 Jun 22 09:52	5° © 46'24	0°04'43	retrograde	6477 Nov 01 12:29	0° Ω 23'25	
behind sun begin	6472 Jun 22 03:22	5° 5 45'30			6477 Dec 02 15:01	30° ₹ ∽	
behind sun end	6472 Jun 22 16:22	5° 5 47'19		opposition	6478 Jan 17 08:19	28° 5 22'37	0°16'21
max. Earth dist.	6472 Jun 22 22:15	5° 5 48'11	20.89600 AU	min. Earth dist.	6478 Jan 17 03:36	28°523'06	18.61275 AU
morning rise	6472 Jul 08 16:00	6°542'05		direct	6478 Apr 02 04:13	26°523'53	
retrograde	6472 Oct 11 01:50	9° © 50'43		evening set	6478 Jul 01 17:07	29° 5 28'08	
opposition	6472 Dec 27 12:08	7° © 51'02	-0°03'07		6478 Jul 10 22:58	$0^{\circ}\Omega$	
min. Earth dist.	6472 Dec 27 01:41	7° © 52'05	18.87492 AU				
direct	6473 Mar 12 15:38	5° © 53'49		conjunction	6478 Jul 18 01:27	0° Ω 24'47	0°16'29
evening set	6473 Jun 10 14:59	8° © 54'41		minimum elong	6478 Jul 18 01:27	0° Ω 24'47	0°16'26
				max. Earth dist.	6478 Jul 18 06:44	0° Ω 25'33	20.58315 AU
conjunction	6473 Jun 26 18:43	9° © 50'05	-0°01'08	morning rise	6478 Aug 03 12:34	1° Ω 21'52	
minimum elong	6473 Jun 26 18:44	9° © 50'05	0°01'11	retrograde	6478 Nov 06 01:40	4° Ω 33'42	
behind sun begin	6473 Jun 26 12:05	9° 5 49'09		opposition	6479 Jan 21 18:08	2° Ω 32'42	
behind sun end	6473 Jun 27 01:23	9° © 51'01		min. Earth dist.	6479 Jan 21 14:02		18.55292 AU
max. Earth dist.	6473 Jun 27 04:53		20.85276 AU	direct	6479 Apr 06 12:52	0° Ω 33'40	
morning rise	6473 Jul 13 01:56	10° © 45'58		evening set	6479 Jul 06 05:28	3° Ω 38'48	
retrograde	6473 Oct 15 13:04	13° © 55'05					
asc. node	6473 Oct 19 00:38	13°954'47		conjunction	6479 Jul 22 14:28	4° Ω 35'43	0°19'51
opposition	6473 Dec 31 20:32	11°955'11	0°00'47	minimum elong	6479 Jul 22 14:28	4°Ω35'43	0°19'49
min. Earth dist.	6473 Dec 31 11:23	11°956'07	18.82934 AU	max. Earth dist.	6479 Jul 22 17:27	4° Ω 36'09	20.52263 AU
direct	6474 Mar 16 21:55	9°957'42		morning rise	6479 Aug 08 02:28	5° Ω 33'04	
evening set	6474 Jun 14 23:40	12° © 59'07		retrograde	6479 Nov 10 16:02	8°Ω45'33 6°Ω44'22	0922140
conjunction	6474 Jul 01 04:29	13° © 54'46	0°02'31	opposition min. Earth dist.	6480 Jan 26 04:29 6480 Jan 26 01:49		0°23'49 18.49180 AU
minimum elong	6474 Jul 01 04:29	13°954'45	0°02'31 0°02'28	direct	6480 Apr 09 22:01	4°Ω45'01	18.49180 AU
behind sun begin	6474 Jun 30 21:48	13°953'49	0 02 28	evening set	6480 Jul 09 18:35	7° Ω 51'05	
behind sun end	6474 Jul 01 11:07	13° 9 55'41		evening set	0400 301 07 10.55	7 6631 03	
max. Earth dist.	6474 Jul 01 14:21		20.80501 AU	conjunction	6480 Jul 26 04:35	8° Ω 48'18	0°23'08
morning rise	6474 Jul 17 12:22	14°950'52	20.00301710	minimum elong	6480 Jul 26 04:35	8°Ω48'18	0°23'05
retrograde	6474 Oct 19 23:36	18°900'26		max. Earth dist.	6480 Jul 26 07:32		20.46090 AU
opposition	6475 Jan 05 04:57	16°900'20	0°04'42	morning rise	6480 Aug 11 17:07	9° Ω 45'55	
min. Earth dist.	6475 Jan 04 20:51		18.77957 AU	retrograde	6480 Nov 14 06:37	12° Ω 59'04	
direct	6475 Mar 21 05:29	14°902'34		opposition	6481 Jan 29 15:17	10° Ω 57'44	0°27'25
evening set	6475 Jun 19 09:04	17° 5 04'36		min. Earth dist.	6481 Jan 29 13:08		18.42950 AU
				direct	6481 Apr 14 07:43	8° Ω 58'06	
conjunction	6475 Jul 05 14:37	18° © 00'28	0°06'03	evening set	6481 Jul 14 08:47	12° Ω 05′10	
minimum elong	6475 Jul 05 14:37	18° 5 00'28	0°06'01				
behind sun begin	6475 Jul 05 08:16	17° © 59'34		conjunction	6481 Jul 30 19:27	13° Ω 02'41	0°26'18
behind sun end	6475 Jul 05 20:58	18° © 01'21		minimum elong	6481 Jul 30 19:27	13° Ω 02'40	0°26'16
max. Earth dist.	6475 Jul 05 22:15	18° © 01'33	20.75357 AU	max. Earth dist.	6481 Jul 30 19:59	13° Ω 02'45	20.39817 AU
morning rise	6475 Jul 21 23:31	18°956'48		morning rise	6481 Aug 16 08:51	14° Ω 00′35	
retrograde	6475 Oct 24 11:31	22°506'54			6481 Sep 03 08:47	15° Ω	
opposition	6476 Jan 09 13:47	20°506'33	0°08'37	retrograde	6481 Nov 18 22:15	17° Ω 14′26	
min. Earth dist.	6476 Jan 09 06:58	20°907'15	18.72654 AU	opposition	6482 Feb 03 02:45	15° Ω 12'57	0°30'53
direct	6476 Mar 24 12:12	18° © 08'28		min. Earth dist.	6482 Feb 03 02:22		18.36627 AU
evening set	6476 Jun 22 18:52	21° © 11'10			6482 Feb 08 06:14	15°R Ω	
				direct	6482 Apr 18 18:00	13° Ω 13′02	
conjunction	6476 Jul 09 01:25	22°507'17	0°09'34		6482 Jun 23 21:01	15° Ω	
minimum elong	6476 Jul 09 01:25	22° © 07'17	0°09'31	evening set	6482 Jul 18 23:57	16° Ω 21'11	

evening set	6495 Sep 17 17:40	14° ≙ 39'57		morning rise retrograde	6501 Nov 20 00:37 6502 Feb 20 11:54	15°M09'00 18°M32'39	
conjunction	6495 Oct 04 10:42	15° ≙ 41'18 0°4	19'28	opposition	6502 May 05 03:34	16°ML29'28	0°45'13
minimum elong	6495 Oct 04 10:42		49'28	min. Earth dist.	6502 May 05 20:19		17.31390 AU
max. Earth dist.	6495 Oct 03 18:34	15° ≙ 38'49 19.5			6502 Jun 12 00:40	15°RM₊	
morning rise	6495 Oct 21 02:45	16° ≏ 42'35		direct	6502 Jul 19 17:39	14°M23'32	
retrograde	6496 Jan 22 10:49	20° ♀ 05'01			6502 Aug 25 20:54	15° M ₊	
opposition	6496 Apr 05 12:47	18° ഫ 01'44 0°5	54'53	evening set	6502 Oct 23 01:30	17°M52'09	
min. Earth dist.	6496 Apr 06 03:07	18° ♀ 00'10 17.4	49783 AU	C			
direct	6496 Jun 19 11:59	15° ≏ 56'58		conjunction	6502 Nov 08 16:16	18°M54'12	0°39'17
evening set	6496 Sep 21 21:00	19° ≏ 21'10		minimum elong	6502 Nov 08 16:16	18°M54'13	0°39'20
	•			max. Earth dist.	6502 Nov 07 19:45	18°M51'00	19.30559 AU
conjunction	6496 Oct 08 13:51	20° ♀ 22'42 0°4	48 '59	morning rise	6502 Nov 25 04:36	19°M55'56	
minimum elong	6496 Oct 08 13:51	20° ♀ 22'42 0°4	49'00	retrograde	6503 Feb 25 11:48	23°M19'33	
max. Earth dist.	6496 Oct 07 20:12	20° £ 19'58 19.4	47681 AU	opposition	6503 May 10 03:37	21°M16'23	0°42'24
morning rise	6496 Oct 25 05:43	21° ≏ 24'07		min. Earth dist.	6503 May 10 20:40	21°MJ14'31	17.29929 AU
retrograde	6497 Jan 26 11:13	24° ≏ 46'56		direct	6503 Jul 24 20:26	19° M 10'18	
opposition	6497 Apr 10 09:42	22° £ 43'39 0°5	54'11	evening set	6503 Oct 28 06:24	22°M39'18	
min. Earth dist.	6497 Apr 11 00:08	22° £ 42'05 17.4	45724 AU	C			
direct	6497 Jun 24 11:34	20° ≏ 38'40		conjunction	6503 Nov 13 20:43	23° M 41'21	0°36'38
evening set	6497 Sep 27 00:54	24° £ 03'51		minimum elong	6503 Nov 13 20:43	23°M41'21	0°36'40
Ü	•			max. Earth dist.	6503 Nov 13 01:24	23°M38'19	19.29377 AU
conjunction	6497 Oct 13 17:45	25° ჲ 05'33 0°4	48'10	morning rise	6503 Nov 30 08:13	24°M43'02	
minimum elong	6497 Oct 13 17:45		48'11	retrograde	6504 Mar 01 12:57	28°ML06'33	
max. Earth dist.	6497 Oct 13 00:13	25° £ 02'50 19.4	43803 AU	opposition	6504 May 14 03:50	26°ML03'26	0°39'17
morning rise	6497 Oct 30 09:01	26° ♀ 07'04		min. Earth dist.	6504 May 14 20:08		17.29024 AU
retrograde	6498 Jan 31 10:54	29° £ 30'11		direct	6504 Jul 29 00:09	23°M57'14	
opposition	6498 Apr 15 07:32		53'06	evening set	6504 Nov 01 11:28	27°M26'31	
min. Earth dist.	6498 Apr 15 23:07	27° £ 25'15 17.4		max. Earth dist.	6504 Nov 17 05:26		19.28772 AU
direct	6498 Jun 29 10:08	25° ≏ 21'46					
evening set	6498 Oct 02 05:20	28° £ 47'50		conjunction	6504 Nov 18 01:00	28°M28'32	0°33'43
				minimum elong	6504 Nov 18 01:00	28°M28'32	0°33'45
conjunction	6498 Oct 18 21:45	29° £ 49'39 0°4	47'01	morning rise	6504 Dec 04 11:43	29°M30'09	
minimum elong	6498 Oct 18 21:45		47'03	5 5	6504 Dec 12 17:13	0° ∡ ⊓	
max. Earth dist.	6498 Oct 18 02:28		40310 AU	retrograde	6505 Mar 06 12:19	2° х 53'30	
	6498 Oct 21 16:16	0° M		opposition	6505 May 19 04:15	0° ∡ 750'27	0°35'54
morning rise	6498 Nov 04 12:41	0° M 51'15		min. Earth dist.	6505 May 19 20:53	0° ∡ ¹48'38	17.28737 AU
retrograde	6499 Feb 05 11:11	4°M14'38			6505 Jun 07 22:37	30°RM₊	
opposition	6499 Apr 20 05:51	2°M11'24 0°5	51'39	direct	6505 Aug 03 02:23	28°M44'10	
min. Earth dist.	6499 Apr 20 21:38	2°M09'40 17.3			6505 Sep 26 12:36	0° ∡ ¹	
direct	6499 Jul 04 11:47	0°M06'00		evening set	6505 Nov 06 16:14	2° ∡ 13'38	
evening set	6499 Oct 07 10:00	3°M32'51		max. Earth dist.	6505 Nov 22 10:40		19.28809 AU
max. Earth dist.	6499 Oct 23 07:34	4°M31'52 19.3	37207 AU				
				conjunction	6505 Nov 23 05:04	3° ∡ 15'35	0°30'34
conjunction	6499 Oct 24 02:17	4°M34'47 0°4	45'33	minimum elong	6505 Nov 23 05:04	3° ∡ 15'35	0°30'36
minimum elong	6499 Oct 24 02:17	4°M34'47 0°4	45'36	morning rise	6505 Dec 09 14:53	4° ∡ 17'07	
morning rise	6499 Nov 09 16:30	5°M36'27		retrograde	6506 Mar 11 14:17	7° ∡ ¹40'15	
retrograde	6500 Feb 10 11:08	8°M59'59		opposition	6506 May 24 04:55	5° ∡ ³37'18	0°32'16
opposition	6500 Apr 25 04:40	6°M56'46 0°4	49'51	min. Earth dist.	6506 May 24 20:05	5° ∡ ³35'39	17.29093 AU
min. Earth dist.	6500 Apr 25 21:05	6°M54'58 17.3	35844 AU	direct	6506 Aug 08 06:37	3° ∡ ′31′01	
direct	6500 Jul 09 12:25	4° M 51'11		evening set	6506 Nov 11 20:37	7° ∡ ¹00'33	
evening set	6500 Oct 12 15:05	8°M18'43		C			
max. Earth dist.	6500 Oct 28 10:30	9° M 17'32 19.3	34525 AU	conjunction	6506 Nov 28 08:36	8° ∡ ¹02'24	0°27'12
				minimum elong	6506 Nov 28 08:36	8° ∡ '02'24	0°27'15
conjunction	6500 Oct 29 06:51	9°M20'43 0°4	43'46	max. Earth dist.	6506 Nov 27 14:53		19.29502 AU
minimum elong	6500 Oct 29 06:51		43'48	morning rise	6506 Dec 14 17:26	9° ∡ 103'49	
morning rise	6500 Nov 14 20:39	10°M22'26		retrograde	6507 Mar 16 13:13	12° ∡ ¹26'43	
retrograde	6501 Feb 15 11:25	13°M46'04		opposition	6507 May 29 05:50	10° ∡ ¹23'55	0°28'25
opposition	6501 Apr 30 03:58	11°M42'52 0°4	47'42	min. Earth dist.	6507 May 29 21:06		17.30131 AU
min. Earth dist.	6501 Apr 30 20:44	11° M .41'01 17.3		direct	6507 Aug 13 08:06	8° √ 17'40	
direct	6501 Jul 14 15:07	9° M 37'05		evening set	6507 Nov 17 00:42	11° ×7 47'13	
evening set	6501 Oct 17 20:13	13°M05'13		3			
				conjunction	6507 Dec 03 11:51	12° ∡ ¹48'56	0°23'40
conjunction	6501 Nov 03 11:40	14° M 07'16 0°4	41'41	minimum elong	6507 Dec 03 11:51	12° х 1836	
minimum elong	6501 Nov 03 11:40		41'43	max. Earth dist.	6507 Dec 02 19:04		19.30885 AU
max. Earth dist.	6501 Nov 02 16:12	14° M .04'13 19.3		morning rise	6507 Dec 19 19:50	13°×750'13	
	6501 Nov 17 13:58	15°M		retrograde	6508 Mar 20 15:10	17° × 712'49	

opposition min. Earth dist. direct	6508 Jun 02 06:32 6508 Jun 02 20:02 6508 Aug 17 12:12	15° ₹ 10'12 15° ₹ 08'44 13° ₹ 04'05 16° ₹ 33'31	0°24'22 17.31829 AU	behind sun end max. Earth dist. desc. node	6514 Jan 01 02:41 6513 Dec 31 08:56 6514 Jan 09 20:18 6514 Jan 16 22:13	11°る15'53 11°る13'09 11°る48'41 12°る14'53	19.50550 AU
evening set	6508 Nov 21 04:27	10 8.3331		morning rise retrograde	6514 Apr 18 06:42	12 3 14 33	
conjunction	6508 Dec 07 14:46	17° ∡ ³35'06	0°19'58	opposition	6514 Jul 01 11:24	13° る 33'24	-0°02'06
minimum elong	6508 Dec 07 14:46	17° ∡ ³35′06	0°20'01	min. Earth dist.	6514 Jul 01 19:59	13° る 32'29	17.52842 AU
max. Earth dist.	6508 Dec 06 23:16	17° ∡ ³32'40	19.32901 AU	direct	6514 Sep 16 07:06	11° る 28'31	
morning rise	6508 Dec 23 21:42	18° ≯ 36'13		evening set	6514 Dec 20 14:37	14° る 55'04	
retrograde	6509 Mar 25 13:41	21° х 58'29					
opposition	6509 Jun 07 07:36	19° ₹ 56'05	0°20'10	conjunction	6515 Jan 05 18:57	15° ප් 55'15	
min. Earth dist.	6509 Jun 07 21:19		17.34146 AU	minimum elong	6515 Jan 05 18:58	15° る 55'16	0°03'58
direct	6509 Aug 22 13:43	17° 🗷 50'08		behind sun begin	6515 Jan 05 12:24	15° පි 54'16 15° පි 56'16	
evening set	6509 Nov 26 07:45	21° ⊀ 19'22		behind sun end max. Earth dist.	6515 Jan 06 01:32 6515 Jan 05 10:03		19.55217 AU
conjunction	6509 Dec 12 17:01	22° ∡ 20'47	0°16'09	morning rise	6515 Jan 21 19:56	16° ප 54'59	17.55217 AU
minimum elong	6509 Dec 12 17:01	22° × ² 0'47	0°16'13	retrograde	6515 Apr 23 03:00	20°る14'12	
max. Earth dist.	6509 Dec 12 02:01	22° ҂ 18′25	19.35510 AU	opposition	6515 Jul 06 11:31	18° る 13'02	-0°06'35
morning rise	6509 Dec 28 23:04	23° ∡ *21'42		min. Earth dist.	6515 Jul 06 19:38	18° る 12'10	17.57654 AU
retrograde	6510 Mar 30 14:40	26° х 43′35		direct	6515 Sep 21 08:42	16° る 08'24	
opposition	6510 Jun 12 08:31	24° ₹ 41'25	0°15'51	evening set	6515 Dec 25 13:43	19° る 34'06	
min. Earth dist.	6510 Jun 12 20:24		17.37015 AU				
direct	6510 Aug 27 18:34	22° 🖈 35'40		conjunction	6516 Jan 10 16:53	20°₹33'59	
evening set	6510 Dec 01 10:29	26° ₹ 04'35		minimum elong	6516 Jan 10 16:53 6516 Jan 10 10:56	20°る33'59 20°る33'05	0°0/5/
conjunction	6510 Dec 17 18:52	27° ₹ 05'48	0°12'14	behind sun begin behind sun end	6516 Jan 10 10.36	20 3 33 03 20° る 34'54	
minimum elong	6510 Dec 17 18:52	27° × 05'48	0°12'17	max. Earth dist.	6516 Jan 10 08:00		19.60184 AU
behind sun begin	6510 Dec 17 14:26	27°×705'07	0 12 17	morning rise	6516 Jan 26 17:06	20 ප 3237 21° පි 33'26	17.00104710
behind sun end	6510 Dec 17 23:18	27° ∡ 06′29		retrograde	6516 Apr 26 23:51	24° る 51'59	
max. Earth dist.	6510 Dec 17 05:38	27° х 03′44	19.38632 AU	opposition	6516 Jul 10 10:57	22° る 50'58	-0°11'00
morning rise	6511 Jan 02 23:46	28° ₰ 06'31		min. Earth dist.	6516 Jul 10 17:35	22° る 50'15	17.62769 AU
	6511 Feb 05 23:20	0° ප		direct	6516 Sep 25 09:57	20° ප් 46'31	
retrograde	6511 Apr 04 12:06	1° る 27'58		evening set	6516 Dec 29 11:41	24° る 11'20	
.	6511 Jun 04 02:04	30°₹ ⋌ 7	0011105		(515 X 14 14 01	250710155	0011154
opposition	6511 Jun 17 09:33	29° 🗷 26'02	0°11'25	conjunction	6517 Jan 14 14:01	25° ♂ 10'55	
min. Earth dist. direct	6511 Jun 17 21:36 6511 Sep 01 20:32	29° × '24'44' 27° × '20'30	17.40377 AU	minimum elong behind sun begin	6517 Jan 14 14:01 6517 Jan 14 09:22	25°る10'55 25°る10'13	0-11-51
direct	6511 Nov 22 19:18	27 × 2030		behind sun end	6517 Jan 14 18:39	25° る 1013	
evening set	6511 Dec 06 12:37	0° る 48'59		max. Earth dist.	6517 Jan 14 07:32		19.65442 AU
<i>3</i> - 1 - 1				morning rise	6517 Jan 30 13:10	26° ප 10'04	
conjunction	6511 Dec 22 19:53	1° る 49'57	0°08'15	retrograde	6517 May 01 19:16	29° る 27'55	
minimum elong	6511 Dec 22 19:54	1° る 49'58	0°08'18	opposition	6517 Jul 15 10:07	27° る 27'02	-0°15'19
behind sun begin	6511 Dec 22 14:00	1° る 49'03		min. Earth dist.	6517 Jul 15 15:47		17.68161 AU
behind sun end	6511 Dec 23 01:47	1° る 50'52		direct	6517 Sep 30 10:35	25° පි 22'51	
max. Earth dist.	6511 Dec 22 06:46		19.42223 AU	evening set	6518 Jan 03 08:39	28° る 46'38	
morning rise retrograde	6512 Jan 07 24:00 6512 Apr 08 11:49	2°る50'28 6°る11'26		conjunction	6518 Jan 19 09:50	29° る 45'55	0015142
opposition	6512 Jun 21 10:19	4°る09'42	0°06'56	minimum elong	6518 Jan 19 09:49	29° る 45'55	
min. Earth dist.	6512 Jun 21 20:38		17.44169 AU	behind sun begin	6518 Jan 19 08:14	29°る45'40	0 15 10
direct	6512 Sep 06 01:24	2° る 04'23		behind sun end	6518 Jan 19 11:25	29° ප් 46'09	
evening set	6512 Dec 10 14:05	5° る 32'20		max. Earth dist.	6518 Jan 19 03:51	29° る 45'00	19.70988 AU
					6518 Jan 23 04:38	0° ≈	
conjunction	6512 Dec 26 20:28	6° ප 33'04	0°04'14	morning rise	6518 Feb 04 08:16	0° ≈ 44'46	
minimum elong	6512 Dec 26 20:29	6° る 33'04	0°04'16	retrograde	6518 May 06 14:43	4° ≈ 01'56	
behind sun begin	6512 Dec 26 13:55	6° る 32'04		opposition	6518 Jul 20 08:46	2°≈01'09	
behind sun end max. Earth dist.	6512 Dec 27 03:03	6°る34'04	19.46205 AU	min. Earth dist.	6518 Jul 20 12:55	2°≈00°43 30°Rる	17.73869 AU
max. Earth dist.	6512 Dec 26 09:20 6513 Jan 11 23:23	6° ろ 31′20	17.40203 AU	direct	6518 Sep 25 01:02 6518 Oct 05 10:20	30°Rも 29° る 57'12	
retrograde	6513 Apr 13 08:30	10°る53'44		anoci	6518 Oct 15 19:04	0°≈	
opposition	6513 Jun 26 11:01	8° ප 52'13	0°02'25	evening set	6519 Jan 08 04:30	3°≈19'58	
min. Earth dist.	6513 Jun 26 21:18		17.48331 AU	Č	•		
direct	6513 Sep 11 03:49	6° る 47'08		conjunction	6519 Jan 24 04:51	4° ≈ 18'55	-0°19'25
evening set	6513 Dec 15 14:57	10° ප 14'26		minimum elong	6519 Jan 24 04:51	4° ≈ 18'55	0°19'23
				max. Earth dist.	6519 Jan 24 01:26		19.76849 AU
conjunction	6513 Dec 31 20:07	11°る14'53	0°00'06	morning rise	6519 Feb 09 02:20	5°≈17'28	
minimum elong	6513 Dec 31 20:08	11° る 14'53	0°00'09	retrograde	6519 May 11 08:54	8°≈33'54	0022122
behind sun begin	6513 Dec 31 13:35	11° る 13'54		opposition	6519 Jul 25 06:42	6° ≈ 33'17	-0-25.32

min. Earth dist.	6519 Jul 25 09:15	6° ≈ 33'01	17.79880 AU	direct	6525 Nov 06 12:31	1° ¥ 06'33	
direct	6519 Oct 10 09:37	4° ≈ 29'37		evening set	6526 Feb 07 21:18	4°) €21'33	
evening set	6520 Jan 12 23:29	7° ≈ 51'18					
				conjunction	6526 Feb 23 15:56	5° ∺ 18'17	
conjunction	6520 Jan 28 22:46	8° ≈ 49'56		minimum elong	6526 Feb 23 15:56	5° ∺ 18'17	
minimum elong	6520 Jan 28 22:46	8°≈49'56		max. Earth dist.	6526 Feb 23 22:24		20.23940 AU
max. Earth dist.	6520 Jan 28 20:10		19.83018 AU	morning rise	6526 Mar 11 09:10	6° ¥ 14'50	
morning rise	6520 Feb 13 19:36 6520 May 15 02:55	9°≈48'12 13°≈03'56		retrograde opposition	6526 Jun 11 00:49 6526 Aug 26 00:50	9° ∺ 26'47 7° ∺ 27'33	0045!51
retrograde opposition	6520 Jul 29 04:12	13 ≈03 30 11°≈03'28	0°27'23	min. Earth dist.	6526 Aug 25 18:22		18.27353 AU
min. Earth dist.	6520 Jul 29 05:23		17.86209 AU	direct	6526 Nov 11 05:34	5° ∺ 26'42	18.27333 AU
direct	6520 Oct 14 07:33	9°≈00'08	17.00207110	evening set	6527 Feb 12 09:57	8°) (40'34	
evening set	6521 Jan 16 17:22	12° ≈ 20'44		3		. ,	
C				conjunction	6527 Feb 28 04:01	9°) 37′02	-0°42'22
conjunction	6521 Feb 01 15:52	13° ≈ 19′03	-0°26'21	minimum elong	6527 Feb 28 04:01	9°) 37′02	0°42'21
minimum elong	6521 Feb 01 15:51	13° ≈ 19′03	0°26'20	max. Earth dist.	6527 Feb 28 11:31	9° ∺ 38′09	20.30730 AU
max. Earth dist.	6521 Feb 01 15:37	13° ≈ 19′01	19.89487 AU	morning rise	6527 Mar 15 20:54	10° ∺ 33'19	
morning rise	6521 Feb 17 11:50	14° ≈ 17'00		retrograde	6527 Jun 15 15:18	13°) 44′40	
	6521 Mar 01 18:16	15° ≈		opposition	6527 Aug 30 17:55	11°) 45'35	
retrograde	6521 May 19 20:05	17°≈32'04	0021102	min. Earth dist.	6527 Aug 30 09:35		18.34050 AU
opposition	6521 Aug 03 01:03	15°≈31'48		direct	6527 Nov 15 23:42	9°) (45'07	
min. Earth dist.	6521 Aug 03 00:14		17.92797 AU	evening set	6528 Feb 16 21:50	12° ¥ 57'51	
direct	6521 Aug 15 21:36 6521 Oct 19 05:36	15°R≈ 13°≈28'52		conjunction	6528 Mar 03 15:22	13°) 54′02	0044'14
direct	6521 Dec 19 03:55	15 ≈ 28 32		minimum elong	6528 Mar 03 15:22	13° X 54'02	
evening set	6522 Jan 21 10:25	16°≈48'21		max. Earth dist.	6528 Mar 03 23:51		20.37316 AU
e venning see	0022 0000 21 10.20	10 10 10 21		morning rise	6528 Mar 19 07:56	14°) 50'05	20.57510110
conjunction	6522 Feb 06 07:57	17° ≈ 46′20	-0°29'33	retrograde	6528 Jun 19 02:35	18°) €00'51	
minimum elong	6522 Feb 06 07:57	17° ≈ 46′20	0°29'31	opposition	6528 Sep 03 10:41	16°) €01'54	-0°49'56
max. Earth dist.	6522 Feb 06 08:45	17° ≈ 46′28	19.96193 AU	min. Earth dist.	6528 Sep 03 02:27	16°) €02'44	18.40534 AU
morning rise	6522 Feb 22 03:20	18° ≈ 44′00		direct	6528 Nov 19 14:51	14°) €01'45	
retrograde	6522 May 24 12:46	21° ≈ 58′25		evening set	6529 Feb 20 08:45	17° ∺ 13′22	
opposition	6522 Aug 07 21:26	19° ≈ 58'22					
min. Earth dist.	6522 Aug 07 19:37		17.99611 AU	conjunction	6529 Mar 08 01:50	18° 米 09'16	
direct	6522 Oct 24 01:35	17°≈55'50		minimum elong	6529 Mar 08 01:50	18° ¥ 09'16	
evening set	6523 Jan 26 02:19	21° ≈ 14′13		max. Earth dist.	6529 Mar 08 11:05		20.43680 AU
agniumation	6523 Feb 10 23:09	2200011152	0022122	morning rise	6529 Mar 23 18:10 6529 Jun 23 15:53	19° 光 05'05 22° 光 15'16	
conjunction minimum elong	6523 Feb 10 23:09 6523 Feb 10 23:09	22°≈11'53 22°≈11'53		retrograde opposition	6529 Sep 08 02:38	20° X 16'24	0°51'34
max. Earth dist.	6523 Feb 11 01:59		20.03084 AU	min. Earth dist.	6529 Sep 07 16:26		18.46769 AU
morning rise	6523 Feb 26 17:54	23°≈09'15	20.03001710	direct	6529 Nov 24 07:15	18° ★ 16'34	10.10707110
retrograde	6523 May 29 05:17	26° ≈ 23'02		evening set	6530 Feb 24 18:54	21°) €27'03	
opposition	6523 Aug 12 17:06	24° ≈ 23'12	-0°37'42	Č			
min. Earth dist.	6523 Aug 12 13:15	24° ≈ 23'36	18.06544 AU	conjunction	6530 Mar 12 11:37	22°) € 22'42	-0°47'10
direct	6523 Oct 28 22:20	22° ≈ 21′06		minimum elong	6530 Mar 12 11:37	22°) 22′42	0°47'10
evening set	6524 Jan 30 17:34	25° ≈ 38'21		max. Earth dist.	6530 Mar 12 22:04		20.49787 AU
				morning rise	6530 Mar 28 03:47	23° ∺ 18'18	
conjunction	6524 Feb 15 13:34	26°≈35'43		retrograde	6530 Jun 28 01:46	26° ∺ 27'55	
minimum elong	6524 Feb 15 13:34	26°≈35'43		opposition	6530 Sep 12 17:58	24° H 29'06	
max. Earth dist.	6524 Feb 15 17:24		20.10047 AU	min. Earth dist.	6530 Sep 12 07:55	24° H 30'07 22° H 29'32	18.52767 AU
morning rise	6524 Mar 02 07:46 6524 Apr 20 18:49	27° ≈ 32'48 0° 升		direct evening set	6530 Nov 28 20:49 6531 Mar 01 04:08	25° H 38'54	
retrograde	6524 Jun 01 20:04	0° X 45'57		evening set	0331 Wai 01 04.08	23 1 36 34	
retrograde	6524 Jul 15 10:13	30°R≈		conjunction	6531 Mar 16 20:32	26° ∺ 34'18	-0°48'15
opposition	6524 Aug 16 12:12	28° ≈ 46'20	-0°40'41	minimum elong	6531 Mar 16 20:32	26°) 34'18	
min. Earth dist.	6524 Aug 16 07:55		18.13532 AU	max. Earth dist.	6531 Mar 17 07:41		20.55672 AU
direct	6524 Nov 01 17:00	26° ≈ 44'40		morning rise	6531 Apr 01 12:42	27° ∺ 29'41	
evening set	6525 Feb 03 07:54	0°) 00′48			6531 May 24 08:20	0° Y	
	6525 Feb 03 02:28	0° ∀		retrograde	6531 Jul 02 13:47	0° Ƴ 38'45	
					6531 Aug 12 03:02	30° ₹ ₩	
conjunction	6525 Feb 19 03:14	0° ₩ 57'51		opposition	6531 Sep 17 08:24	28° ∺ 39'58	
minimum elong	6525 Feb 19 03:13	0° ₩ 57'51		min. Earth dist.	6531 Sep 16 20:19		18.58538 AU
max. Earth dist.	6525 Feb 19 08:35		20.17031 AU	direct	6531 Dec 03 10:58	26°) (40'39	
morning rise	6525 Mar 06 20:53	1° 升 54'40		evening set	6532 Mar 04 12:38	29° ¥ 48'56 0° Ƴ	
retrograde	6525 Jun 06 11:47	5° 米 07'12 3° 米 07'47	0.043134		6532 Mar 07 17:01	O. A.	
opposition min. Earth dist.	6525 Aug 21 06:45 6525 Aug 21 00:27		-0°43′24 18.20487 AU	conjunction	6532 Mar 20 04:46	0° Ƴ 44'07	-0°49'04
mm. Earm tist.	0020 Aug 21 00.2/	5 AU0 40	10.2040 / AU	conjunction	0002 waa 20 04.40	0 1 14 0/	U 7/U 1

6545 Apr 25 10:12

evening set

22°816'06

6539 Jan 01 11:18

direct

25°Y18'29

	6545 M 11 04 40	220 400150 002	27122		6551 G 22 15 25	200T 57140	
conjunction	6545 May 11 04:48	23° 8 09'59 -0°3		retrograde	6551 Sep 22 15:37	20° ∏ 57'48	
minimum elong	6545 May 11 04:48	_	37'24	opposition	6551 Dec 09 09:48	18° Ⅱ 58'40	
max. Earth dist.	6545 May 11 22:21	23° 8 12'30 21.0	07135 AU	min. Earth dist.	6551 Dec 08 18:22		19.03041 AU
morning rise	6545 May 27 02:00	24° 8 04'15		direct	6552 Feb 22 23:24	17° Ⅱ 02'05	
retrograde	6545 Aug 28 16:18	27° 8 09'53		evening set	6552 May 22 17:13	20° Ⅱ 01′01	
opposition	6545 Nov 14 13:04	25° 8 11'13 -0°3	39'57				
min. Earth dist.	6545 Nov 13 19:44	25° 8 12'56 19.0	07412 AU	conjunction	6552 Jun 07 16:44	20° Ⅲ 55'31	-0°17'39
direct	6546 Jan 29 14:32	23° 8 14'38		minimum elong	6552 Jun 07 16:44	20° Ⅱ 55'31	0°17'43
evening set	6546 Apr 29 14:07	26° 8 13'36		max. Earth dist.	6552 Jun 08 09:11	20°∏57'52	21.02006 AU
5 / T 8 # 4 #	** · · · · · · · · · · · · · · · · · ·	_, _,		morning rise	6552 Jun 23 19:22	21° I I50'28	
agniumation	6546 May 15 09:23	27° 8 07'32 -0°3	2.415.0	Č	6552 Sep 25 23:23	24° I 57'25	
conjunction	•	27° 8 07'32 0°3		retrograde	1	24 H 57 25 22° H 58'12	0017120
minimum elong	6546 May 15 09:23	. •		opposition	6552 Dec 12 17:21		
max. Earth dist.	6546 May 16 03:36	27° 8 10'08 21.0	07533 AU	min. Earth dist.	6552 Dec 12 03:03		19.00882 AU
morning rise	6546 May 31 07:12	28° 8 01'51		direct	6553 Feb 26 04:32	21° Ⅱ 01'34	
	6546 Jul 10 06:40	Π $\circ 0$		evening set	6553 May 26 23:03	24° Ⅱ 00'46	
retrograde	6546 Sep 01 22:36	1° Ⅲ 07'30					
	6546 Oct 27 18:01	30° ₹ 8		conjunction	6553 Jun 11 23:19	24° Ⅱ 55′24	-0°14'22
opposition	6546 Nov 18 20:44	29° 8 08'44 -0°3	37'14	minimum elong	6553 Jun 11 23:19	24° Ⅱ 55'24	0°14'25
min. Earth dist.	6546 Nov 18 04:05	29° 8 10'24 19.0	07618 AU	behind sun begin	6553 Jun 11 20:19	24° Ⅱ 54'59	
direct	6547 Feb 02 20:39	27° 8 12'11	0,010110	behind sun end	6553 Jun 12 02:20	24° I 55'49	
direct	6547 Apr 30 11:13	0°Ⅱ		max. Earth dist.	6553 Jun 12 14:06		20.99619 AU
	•						20.99019 AU
evening set	6547 May 03 18:08	0° Ⅱ 10'57		morning rise	6553 Jun 28 02:57	25° Ⅱ 50'31	
		_		retrograde	6553 Sep 30 09:24	28° I 57'50	
conjunction	6547 May 19 13:57	1° Ⅱ 04'55 -0°3		min. Earth dist.	6553 Dec 16 11:23		18.98242 AU
minimum elong	6547 May 19 13:57	1° Ⅱ 04'55 0°3	32'29	opposition	6553 Dec 17 01:00	26° Ⅱ 58'32	-0°13'58
max. Earth dist.	6547 May 20 07:21	1° Ⅲ 07'24 21.0	07562 AU	direct	6554 Mar 02 10:16	25° Ⅱ 01'47	
morning rise	6547 Jun 04 12:36	1° Ⅱ 59'18		evening set	6554 May 31 05:31	28° Ⅲ 01′18	
retrograde	6547 Sep 06 07:35	5° Ⅲ 05′03					
min. Earth dist.	6547 Nov 22 11:10	3° Ⅱ 07'54 19.0	07462 AU	conjunction	6554 Jun 16 06:43	28° Ⅱ 56′06	-0°11'00
opposition	6547 Nov 23 04:16	3° Д 06'11 -0°3	34'20	minimum elong	6554 Jun 16 06:42	28° II 56'06	0°11'04
direct	6548 Feb 07 02:14	1° Ⅱ 09'38		behind sun begin	6554 Jun 16 01:44	28° I I55'25	
evening set	6548 May 06 22:06	4° Ⅱ 08'17		behind sun end	6554 Jun 16 11:40	28° I I56'48	
evening set	0346 Way 00 22.00	4 110017		max. Earth dist.	6554 Jun 16 21:09		20.96710 AU
	(540.) (22.10.27	50 T 00110 000	20144				20.96/10 AU
conjunction	6548 May 22 18:37	5° Ⅱ 02'19 -0°2		morning rise	6554 Jul 02 11:05	29° Ⅱ 51'23	
minimum elong	6548 May 22 18:37	5° Ⅱ 02'19 0°2			6554 Jul 05 00:59	0 \circ	
max. Earth dist.	6548 May 23 12:40	5° Ⅱ 04'54 21.0	07213 AU	retrograde	6554 Oct 04 18:21	2° © 59'05	
morning rise	6548 Jun 07 17:56	5° Ⅱ 56'47		opposition	6554 Dec 21 08:42	0° © 59'39	-0°10'12
retrograde	6548 Sep 09 13:48	9° Ⅲ 02'41		min. Earth dist.	6554 Dec 20 20:27	1° © 00'54	18.95063 AU
opposition	6548 Nov 26 11:47	7° Ⅱ 03'45 -0°3	31'16		6555 Jan 16 02:27	30° Ŗ Ⅱ	
min. Earth dist.	6548 Nov 25 19:21	7° Ⅲ 05′24 19.0	06928 AU	direct	6555 Mar 06 16:01	29° Ⅱ 02'46	
direct	6549 Feb 10 07:36	5° Ⅱ 07'13			6555 Apr 23 11:40	0°©	
evening set	6549 May 11 02:24	8° I 105'48		evening set	6555 Jun 04 12:32	2°502'39	
evening set	0347 May 11 02.24	0 1105 40		evening set	0333 Juli 04 12.32	2 30237	
conjunction	6549 May 26 23:33	8° Ц 59'56 -0°2	26'54	conjunction	6555 Jun 20 14:30	2° 9 57'39	-0°07'35
minimum elong	6549 May 26 23:33	8°П59'56 0°2		minimum elong	6555 Jun 20 14:30	2°957'39	
•	•			_			0 0/3/
max. Earth dist.	6549 May 27 16:41	9° I 102'23 21.0	06510 AU	behind sun begin	6555 Jun 20 08:29	2°956'48	
morning rise	6549 Jun 11 23:47	9° ∏ 54′29		behind sun end	6555 Jun 20 20:31	2° © 58'29	
retrograde	6549 Sep 13 23:19	13° Ⅱ 00'35		max. Earth dist.	6555 Jun 21 02:50		20.93281 AU
opposition	6549 Nov 30 19:05	11° П 01'34 -0°2		morning rise	6555 Jul 06 19:52	3° 9 53'07	
min. Earth dist.	6549 Nov 30 02:30	11° Ⅲ 03'14 19.0	06037 AU	retrograde	6555 Oct 09 04:40	7° © 01'14	
direct	6550 Feb 14 13:00	9° Ⅲ 05'01		opposition	6555 Dec 25 16:42	5° 5 01'37	-0°06'22
evening set	6550 May 15 06:55	12° Ⅲ 03'40		min. Earth dist.	6555 Dec 25 05:20	5° © 02'47	18.91372 AU
				direct	6556 Mar 09 22:17	3°904'32	
conjunction		120T 57154 002	23'56	evening set		(00004150	
minimum elong	6550 May 31 04:55	12°H5/54 -0°2			6556 Jun 07 19:49	0-5004.20	
•	6550 May 31 04:55	12° Ⅲ 57'54 -0°2 12° Ⅲ 57'54 0°2		evening sec	6556 Jun 07 19:49	6° © 04'50	
max Farth diet	6550 May 31 04:55	12° Ⅱ 57'54 0°2	23'59				-0°04'06
max. Earth dist.	6550 May 31 04:55 6550 May 31 22:28	12° Ц 57'54 0°2 13° Ц 00'24 21.0	23'59	conjunction	6556 Jun 23 22:44	7° © 00'01	
morning rise	6550 May 31 04:55 6550 May 31 22:28 6550 Jun 16 05:54	12° Д 57'54 0°2 13° Д 00'24 21.0 13° Д 52'34	23'59	conjunction minimum elong	6556 Jun 23 22:44 6556 Jun 23 22:45	7°500'01 7°500'01	-0°04'06 0°04'10
morning rise retrograde	6550 May 31 04:55 6550 May 31 22:28 6550 Jun 16 05:54 6550 Sep 18 05:53	12°П57'54 0°2 13°П00'24 21.0 13°П52'34 16°П58'54	23'59 05420 AU	conjunction minimum elong behind sun begin	6556 Jun 23 22:44 6556 Jun 23 22:45 6556 Jun 23 16:12	7°500'01 7°500'01 6°559'06	
morning rise retrograde min. Earth dist.	6550 May 31 04:55 6550 May 31 22:28 6550 Jun 16 05:54 6550 Sep 18 05:53 6550 Dec 04 10:48	12°П57'54 0°2 13°П00'24 21.0 13°П52'34 16°П58'54 15°П01'24 19.0	23'59 05420 AU 04742 AU	conjunction minimum elong behind sun begin behind sun end	6556 Jun 23 22:44 6556 Jun 23 22:45 6556 Jun 23 16:12 6556 Jun 24 05:19	7°500'01 7°500'01 6°559'06 7°500'56	0°04'10
morning rise retrograde min. Earth dist. opposition	6550 May 31 04:55 6550 May 31 22:28 6550 Jun 16 05:54 6550 Sep 18 05:53 6550 Dec 04 10:48 6550 Dec 05 02:28	12° \$\Pi 57'54 0°2 \\ 13° \$\Pi 00'24 21.0 \\ 13° \$\Pi 52'34 \\ 16° \$\Pi 58'54 \\ 15° \$\Pi 01'24 19.0 \\ 14° \$\Pi 59'50 -0°2 \\ \end{align*}	23'59 05420 AU 04742 AU	conjunction minimum elong behind sun begin behind sun end max. Earth dist.	6556 Jun 23 22:44 6556 Jun 23 22:45 6556 Jun 23 16:12 6556 Jun 24 05:19 6556 Jun 24 10:48	7°500'01 7°500'01 6°559'06 7°500'56 7°501'44	
morning rise retrograde min. Earth dist.	6550 May 31 04:55 6550 May 31 22:28 6550 Jun 16 05:54 6550 Sep 18 05:53 6550 Dec 04 10:48	12° \$\Pi\$57'54 0°2 13° \$\Pi\$00'24 21.0 13° \$\Pi\$52'34 16° \$\Pi\$58'54 15° \$\Pi\$01'24 19.0 14° \$\Pi\$59'50 -0°2 13° \$\Pi\$03'17	23'59 05420 AU 04742 AU	conjunction minimum elong behind sun begin behind sun end	6556 Jun 23 22:44 6556 Jun 23 22:45 6556 Jun 23 16:12 6556 Jun 24 05:19	7°500'01 7°500'01 6°559'06 7°500'56	0°04'10
morning rise retrograde min. Earth dist. opposition	6550 May 31 04:55 6550 May 31 22:28 6550 Jun 16 05:54 6550 Sep 18 05:53 6550 Dec 04 10:48 6550 Dec 05 02:28	12° \$\Pi 57'54 0°2 \\ 13° \$\Pi 00'24 21.0 \\ 13° \$\Pi 52'34 \\ 16° \$\Pi 58'54 \\ 15° \$\Pi 01'24 19.0 \\ 14° \$\Pi 59'50 -0°2 \\ \end{align*}	23'59 05420 AU 04742 AU	conjunction minimum elong behind sun begin behind sun end max. Earth dist.	6556 Jun 23 22:44 6556 Jun 23 22:45 6556 Jun 23 16:12 6556 Jun 24 05:19 6556 Jun 24 10:48	7°500'01 7°500'01 6°559'06 7°500'56 7°501'44 7°555'41 11°504'13	0°04'10 20.89336 AU
morning rise retrograde min. Earth dist. opposition direct	6550 May 31 04:55 6550 May 31 22:28 6550 Jun 16 05:54 6550 Sep 18 05:53 6550 Dec 04 10:48 6550 Dec 05 02:28 6551 Feb 18 17:55	12° \$\Pi\$57'54 0°2 13° \$\Pi\$00'24 21.0 13° \$\Pi\$52'34 16° \$\Pi\$58'54 15° \$\Pi\$01'24 19.0 14° \$\Pi\$59'50 -0°2 13° \$\Pi\$03'17	23'59 05420 AU 04742 AU	conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise	6556 Jun 23 22:44 6556 Jun 23 22:45 6556 Jun 23 16:12 6556 Jun 24 05:19 6556 Jun 24 10:48 6556 Jul 10 04:53	7°500'01 7°500'01 6°55'06 7°500'56 7°501'44 7°555'41	0°04'10 20.89336 AU
morning rise retrograde min. Earth dist. opposition direct	6550 May 31 04:55 6550 May 31 22:28 6550 Jun 16 05:54 6550 Sep 18 05:53 6550 Dec 04 10:48 6550 Dec 05 02:28 6551 Feb 18 17:55	12° \$\Pi\$57'54 0°2 13° \$\Pi\$00'24 21.0 13° \$\Pi\$52'34 16° \$\Pi\$58'54 15° \$\Pi\$01'24 19.0 14° \$\Pi\$59'50 -0°2 13° \$\Pi\$03'17	23'59 05420 AU 04742 AU 24'42	conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde	6556 Jun 23 22:44 6556 Jun 23 22:45 6556 Jun 23 16:12 6556 Jun 24 05:19 6556 Jun 24 10:48 6556 Jul 10 04:53 6556 Oct 12 14:22	7°500'01 7°500'01 6°559'06 7°500'56 7°501'44 7°555'41 11°504'13 9°504'26	0°04'10 20.89336 AU
morning rise retrograde min. Earth dist. opposition direct evening set	6550 May 31 04:55 6550 May 31 22:28 6550 Jun 16 05:54 6550 Sep 18 05:53 6550 Dec 04 10:48 6550 Dec 05 02:28 6551 Feb 18 17:55 6551 May 19 11:52	12° Д57'54 0°2 13° Д00'24 21.0 13° Д52'34 16° Д58'54 15° Д01'24 19.0 14° Д59'50 -0°2 13° Д03'17 16° Д02'02	23'59 05420 AU 04742 AU 24'42	conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition	6556 Jun 23 22:44 6556 Jun 23 22:45 6556 Jun 23 16:12 6556 Jun 24 05:19 6556 Jun 24 10:48 6556 Jul 10 04:53 6556 Oct 12 14:22 6556 Dec 29 00:52	7°500'01 7°500'01 6°559'06 7°500'56 7°501'44 7°555'41 11°504'13 9°504'26	0°04'10 20.89336 AU -0°02'29
morning rise retrograde min. Earth dist. opposition direct evening set conjunction	6550 May 31 04:55 6550 May 31 22:28 6550 Jun 16 05:54 6550 Sep 18 05:53 6550 Dec 04 10:48 6550 Dec 05 02:28 6551 Feb 18 17:55 6551 May 19 11:52 6551 Jun 04 10:32 6551 Jun 04 10:32	12° \$\Pi 57'54 0°2 \\ 13° \$\Pi 00'24 21.0 \\ 13° \$\Pi 52'34 \\ 16° \$\Pi 58'54 \\ 15° \$\Pi 01'24 19.0 \\ 14° \$\Pi 59'50 -0°2 \\ 13° \$\Pi 02'02 \\ 16° \$\Pi 56'23 -0°2 \\ 16° \$\Pi 56'23 0°2 10°2 \\ 16° \$\Pi 56'23 0°2 10°2 \\ 16° \$\Pi 56'23 0°2 10°2 10°2 10°2 \\ 16° \$\Pi 56'23 0°2 10°2 \qquad 10°2 10°2 10°2 10°2 10°2 \qquad 10°2 \qquad 10°2 \qquad 10°2 \q	23'59 05420 AU 04742 AU 24'42 20'51 20'54	conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	6556 Jun 23 22:44 6556 Jun 23 22:45 6556 Jun 23 16:12 6556 Jun 24 05:19 6556 Jun 24 10:48 6556 Jul 10 04:53 6556 Oct 12 14:22 6556 Dec 29 00:52 6556 Dec 28 14:42 6557 Mar 14 04:46	7°500'01 7°500'01 6°559'06 7°500'56 7°501'44 7°555'41 11°504'13 9°504'26 9°505'28	0°04'10 20.89336 AU -0°02'29
morning rise retrograde min. Earth dist. opposition direct evening set conjunction minimum elong	6550 May 31 04:55 6550 May 31 22:28 6550 Jun 16 05:54 6550 Sep 18 05:53 6550 Dec 04 10:48 6550 Dec 05 02:28 6551 Feb 18 17:55 6551 May 19 11:52	12° \$\Pi 57'54 0°2 \\ 13° \$\Pi 00'24 21.0 \\ 13° \$\Pi 52'34 \\ 16° \$\Pi 58'54 \\ 15° \$\Pi 01'24 19.0 \\ 14° \$\Pi 59'50 -0°2 \\ 13° \$\Pi 03'17 \\ 16° \$\Pi 02'02 19.0 \\ 16° \$\Pi 56'23 -0°2 \\ 16° \$\Pi 56'23 -0°2 \\ 180° \$\Pi 56'23 -0°2 -0°2	23'59 05420 AU 04742 AU 24'42 20'51 20'54	conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist.	6556 Jun 23 22:44 6556 Jun 23 22:45 6556 Jun 23 16:12 6556 Jun 24 05:19 6556 Jun 24 10:48 6556 Jul 10 04:53 6556 Oct 12 14:22 6556 Dec 29 00:52 6556 Dec 28 14:42	7°900'01 7°900'01 6°959'06 7°900'56 7°901'44 7°955'41 11°904'13 9°904'26 9°905'28 7°907'06	0°04'10 20.89336 AU -0°02'29

	(557 1 20 07 27	1100002116	0000122		(5(2 A 05 00 47	20 (022)24	
conjunction	6557 Jun 28 07:37	11°503'16		morning rise	6562 Aug 05 00:47	2° Ω 33'24	
minimum elong	6557 Jun 28 07:37	11° © 03'16	0°00'35	retrograde	6562 Nov 07 13:37	5° Ω 45'13	
behind sun begin	6557 Jun 28 00:58	11° © 02'21		opposition	6563 Jan 23 06:29	3° Ω 44'15	0°20'46
behind sun end	6557 Jun 28 14:15	11° © 04'12		min. Earth dist.	6563 Jan 23 02:02	3° Ω 44'42	18.55496 AU
max. Earth dist.	6557 Jun 28 17:36	11° 5 04'42	20.84948 AU	direct	6563 Apr 08 01:55	1° Ω 45'15	
morning rise	6557 Jul 14 14:45	11° © 59'09		evening set	6563 Jul 07 17:52	4° Ω 50′23	
asc. node	6557 Aug 20 04:38	13° © 49'47					
retrograde	6557 Oct 17 01:21	15° © 08'08		conjunction	6563 Jul 24 02:48	5° Ω 47'18	0°20'25
opposition	6558 Jan 02 09:03	13° © 08'07	0°01'26	minimum elong	6563 Jul 24 02:48	5° Ω 47'18	0°20'22
min. Earth dist.	6558 Jan 01 23:54		18.82597 AU	max. Earth dist.	6563 Jul 24 06:16		20.52554 AU
direct	6558 Mar 18 11:32	11° © 10'31	10.02377710	morning rise	6563 Aug 09 14:44	6° Ω 44'38	20.32331710
	6558 Jun 16 12:26	14°911'51		•	6563 Nov 12 03:44	9° Ω 57'08	
evening set	0538 Juli 10 12.20	14 911 31		retrograde			0024127
				opposition	6564 Jan 27 16:53	7° Ω 56'01	
conjunction	6558 Jul 02 17:10	15° © 07'28	0°03'07	min. Earth dist.	6564 Jan 27 13:45		18.49553 AU
minimum elong	6558 Jul 02 17:10	15° © 07'28	0°03'03	direct	6564 Apr 11 09:52	5° Ω 56'45	
behind sun begin	6558 Jul 02 10:32	15° © 06'32		evening set	6564 Jul 11 06:52	9° Ω 02'51	
behind sun end	6558 Jul 02 23:49	15° © 08'24					
max. Earth dist.	6558 Jul 03 02:59	15° © 08'52	20.80169 AU	conjunction	6564 Jul 27 16:48	10° Ω 00'03	0°23'41
morning rise	6558 Jul 19 01:02	16° © 03'34		minimum elong	6564 Jul 27 16:48	10° Ω 00'03	0°23'39
retrograde	6558 Oct 21 11:46	19° © 13'02		max. Earth dist.	6564 Jul 27 20:14	10° Ω 00'33	20.46541 AU
opposition	6559 Jan 06 17:31	17°512'49	0°05'21	morning rise	6564 Aug 13 05:17	10° Ω 57'39	
min. Earth dist.	6559 Jan 06 09:23	17° © 13'39	18.77647 AU	retrograde	6564 Nov 15 19:21	14° Ω 10'51	
direct	6559 Mar 22 18:30	15°9514'56		opposition	6565 Jan 31 03:46	12° Ω 09'37	0°28'02
evening set	6559 Jun 20 21:37	18°916'53		min. Earth dist.	6565 Jan 31 01:27		18.43464 AU
evening set	0337 3411 20 21.37	10 310 33		direct	6565 Apr 15 20:20	10°Ω10'06	10.45404710
	(550 I-1 07 02.06	19° © 12'44	0°06'39		•	13° Ω 17'13	
conjunction	6559 Jul 07 03:06			evening set	6565 Jul 15 21:14	13 661/13	
minimum elong	6559 Jul 07 03:05	19°512'44	0°06'36		6565 A 01 07 A0	1.40.01.4142	0006150
behind sun begin	6559 Jul 06 20:50	19° © 11'51		conjunction	6565 Aug 01 07:49	14°Ω14'43	0°26'52
behind sun end	6559 Jul 07 09:20	19° © 13'36		minimum elong	6565 Aug 01 07:49	14°Ω14'43	
max. Earth dist.	6559 Jul 07 10:56		20.75078 AU	max. Earth dist.	6565 Aug 01 08:41		20.40386 AU
morning rise	6559 Jul 23 11:55	20°©09'03			6565 Aug 14 05:36	15° Ω	
retrograde	6559 Oct 25 23:35	23° © 19'04		morning rise	6565 Aug 17 21:07	15° Ω 12'36	
opposition	6560 Jan 11 02:15	21° © 18'37	0°09'16	retrograde	6565 Nov 20 10:35	18° Ω 26'31	
min. Earth dist.	6560 Jan 10 19:05	21° © 19'21	18.72423 AU	opposition	6566 Feb 04 15:08	16° Ω 25′10	0°31'30
direct	6560 Mar 26 01:47	19° © 20'27		min. Earth dist.	6566 Feb 04 14:38	16° Ω 25'13	18.37236 AU
evening set	6560 Jun 24 07:27	22° © 23'06			6566 Mar 14 04:59	15° ₽ Ω	
				direct	6566 Apr 20 05:44	14° Ω 25′21	
conjunction	6560 Jul 10 13:55	23° © 19'12	0°10'09		6566 May 26 17:35	15° Ω	
minimum elong	6560 Jul 10 13:55	23° © 19'12	0°10'07	evening set	6566 Jul 20 12:28	17° Ω 33'33	
behind sun begin	6560 Jul 10 08:35	23°518'27		Č			
behind sun end	6560 Jul 10 19:16	23° © 19'57		conjunction	6566 Aug 05 23:58	18° Ω 31'21	0°29'54
max. Earth dist.	6560 Jul 10 21:46		20.69726 AU	minimum elong	6566 Aug 05 23:58	18° Ω 31'21	
morning rise	6560 Jul 26 23:24	24°915'45	20.07720710	max. Earth dist.	6566 Aug 06 00:23		20.34065 AU
retrograde	6560 Oct 29 11:15	27°526'20		morning rise	6566 Aug 22 13:41	19° Ω 29'31	20.54005 AC
•			0°13'09	•	6566 Nov 25 03:42	22° Ω 44'08	
opposition	6561 Jan 14 11:17	25°525'42		retrograde			0024140
min. Earth dist.	6561 Jan 14 04:56		18.66959 AU	opposition	6567 Feb 09 03:10	20° Ω 42'40	
direct	6561 Mar 30 09:28	23°527'15		min. Earth dist.	6567 Feb 09 03:35		18.30821 AU
evening set	6561 Jun 28 18:06	26° © 30'39		direct	6567 Apr 24 17:36	18° Ω 42'34	
				evening set	6567 Jul 25 04:45	21° Ω 51'51	
conjunction	6561 Jul 15 01:20	27° © 27'01	0°13'38			_	
minimum elong	6561 Jul 15 01:20	27° © 27'00	0°13'35	conjunction	6567 Aug 10 16:47	22° Ω 49'57	0°32'49
behind sun begin	6561 Jul 14 21:44	27° 5 26'30		minimum elong	6567 Aug 10 16:47	22° Ω 49'57	0°32'48
behind sun end	6561 Jul 15 04:57	27° 5 27'31		max. Earth dist.	6567 Aug 10 14:22	22° Ω 49'36	20.27556 AU
max. Earth dist.	6561 Jul 15 07:06	27° © 27'50	20.64172 AU	morning rise	6567 Aug 27 07:13	23° Ω 48'24	
morning rise	6561 Jul 31 11:48	28°523'49		retrograde	6567 Nov 29 19:57	27° Ω 03'45	
•	6561 Aug 31 06:14	$0^{\circ}\Omega$		opposition	6568 Feb 13 15:58	25° Ω 02'07	0°37'57
retrograde	6561 Nov 03 00:11	1° Ω 35'01		min. Earth dist.	6568 Feb 13 18:26		18.24225 AU
	6562 Jan 08 09:36	30°Rூ		direct	6568 Apr 28 05:23	23° Ω 01'40	
opposition	6562 Jan 18 20:44	29° © 34'11	0°17'00	evening set	6568 Jul 28 21:56	26°Ω12'04	
min. Earth dist.	6562 Jan 18 15:31		18.61315 AU	evening set	5500 Jul 20 21.50	20 0612 04	
			10.01313 AU	aaniumatian	6569 Aug 14 10.52	270 (10)20	0025122
direct	6562 Apr 03 17:02	27° © 35'27		conjunction	6568 Aug 14 10:52	27°Ω10'28	0°35'33
	6562 Jun 21 06:37	0° N		minimum elong	6568 Aug 14 10:52	27°Ω10'28	
evening set	6562 Jul 03 05:31	0° Ω 39'42		max. Earth dist.	6568 Aug 14 07:48		20.20864 AU
				morning rise	6568 Aug 31 01:39	28° Ω 09'12	
conjunction	6562 Jul 19 13:45	1° Ω 36′20			6568 Oct 05 08:00	0° m	
minimum elong	6562 Jul 19 13:45	1° Ω 36′20		retrograde	6568 Dec 03 13:38	1°m/25'14	
max. Earth dist.	6562 Jul 19 19:27	1° Ω 37'09	20.58433 AU		6569 Feb 02 14:46	30°R Ω	

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opposition	6569 Feb 17 05:11	29° Ω 23'25	0°40'55	minimum elong	6575 Sep 16 16:07	28° m 23'25	0°48'29
min. Earth dist.	6569 Feb 17 08:26	29° Ω 23'04	18.17447 AU	max. Earth dist.	6575 Sep 16 02:52	28° m) 21'24	19.73846 AU
direct	6569 May 02 18:58	27° Ω 22'36		morning rise	6575 Oct 03 08:47	29° m 23'54	
	6569 Jul 23 16:07	0° m y			6575 Oct 13 16:58	0∘ ⊽	
evening set	6569 Aug 02 16:15	0° m/34'08		retrograde	6576 Jan 05 02:51	2° ≏ 44'18	
-	-			opposition	6576 Mar 19 19:25	0° ≙ 41'11	0°54'25
conjunction	6569 Aug 19 05:43	1° Mp 32'50	0°38'07	min. Earth dist.	6576 Mar 20 07:04	0° £ 39'55	17.70892 AU
minimum elong	6569 Aug 19 05:43	1° Mg 32'50	0°38'06		6576 Apr 04 21:54	30°R, Mp	
max. Earth dist.	6569 Aug 18 23:43	1° m) 31'57	20.14018 AU	direct	6576 Jun 02 14:12	28° m 37'32	
morning rise	6569 Sep 04 21:07	2° Mp 31'50			6576 Jul 29 11:42	0∘ ত	
retrograde	6569 Dec 08 06:42	5° Mp 48'33		evening set	6576 Sep 04 00:00	1° ≏ 57'14	
opposition	6570 Feb 21 19:10	3° Mp 46'31	0°43'39				
min. Earth dist.	6570 Feb 22 00:36	3° Mp 45'56	18.10551 AU	conjunction	6576 Sep 20 16:40	2° ≏ 57'54	0°49'15
direct	6570 May 07 08:46	1° m)45'17		minimum elong	6576 Sep 20 16:40	2° ≏ 57'54	0°49'14
evening set	6570 Aug 07 11:17	4° m ∕57'58		max. Earth dist.	6576 Sep 20 02:47	2° ≏ 55'47	19.68002 AU
				morning rise	6576 Oct 07 09:20	3° ჲ 58'36	
conjunction	6570 Aug 24 01:30	5° m 56'58	0°40'28	retrograde	6577 Jan 09 01:56	7° ≙ 19'33	
minimum elong	6570 Aug 24 01:30	5° m 56'58	0°40'27	opposition	6577 Mar 24 13:37	5° ≙ 16′21	0°55'06
max. Earth dist.	6570 Aug 23 18:57	5° m 56'00	20.07082 AU	min. Earth dist.	6577 Mar 25 01:00	5° ≙ 15'07	17.65233 AU
morning rise	6570 Sep 09 17:07	6° Mp 56'14		direct	6577 Jun 07 10:45	3° ≏ 12'24	
retrograde	6570 Dec 13 01:04	10° m) 13'35		evening set	6577 Sep 09 01:10	6° ≏ 33'17	
opposition	6571 Feb 26 09:33	8° Mp 11'21	0°46'10				
min. Earth dist.	6571 Feb 26 15:28	8° m 10'43	18.03596 AU	conjunction	6577 Sep 25 18:00	7° ≏ 34'11	0°49'41
direct	6571 May 12 00:21	6° Mp 09′43		minimum elong	6577 Sep 25 17:59	7° ≏ 34'11	0°49'42
evening set	6571 Aug 12 07:20	9° m 23'33		max. Earth dist.	6577 Sep 25 03:12	7° ≏ 31'55	19.62529 AU
				morning rise	6577 Oct 12 10:30	8° 亞 35'05	
conjunction	6571 Aug 28 21:58	10° Mg 22'50	0°42'35	retrograde	6578 Jan 13 23:23	11° ≏ 56'34	
minimum elong	6571 Aug 28 21:58	10° Mg 22'50	0°42'35	opposition	6578 Mar 29 08:47	9° ≏ 53'21	0°55'26
max. Earth dist.	6571 Aug 28 12:56		20.00135 AU	min. Earth dist.	6578 Mar 29 21:51		17.59963 AU
morning rise	6571 Sep 14 14:03	11° m) 22'22		direct	6578 Jun 12 05:50	7° ჲ 49'09	
retrograde	6571 Dec 17 18:49	14° Mp 40'22		evening set	6578 Sep 14 02:57	11° ≏ 11'10	
opposition	6572 Mar 02 00:42	12° m 37'55					
min. Earth dist.	6572 Mar 02 08:40	-	17.96687 AU	conjunction	6578 Sep 30 19:50	12° ≙ 12'17	
direct	6572 May 15 15:39	10° Mp 35'50		minimum elong	6578 Sep 30 19:50	12° ≏ 12'17	
evening set	6572 Aug 16 04:02	13° m 50'49		max. Earth dist.	6578 Sep 30 04:05		19.57457 AU
				morning rise	6578 Oct 17 12:13	13° ≙ 13'22	
conjunction	6572 Sep 01 19:21	14° m 50'25		retrograde	6579 Jan 18 23:41	16° ≙ 35'21	
minimum elong	6572 Sep 01 19:21	14° m 50'25		opposition	6579 Apr 03 04:29	14° Ω 32'08	
max. Earth dist.	6572 Sep 01 09:55		19.93272 AU	min. Earth dist.	6579 Apr 03 17:22		17.55081 AU
morning rise	6572 Sep 18 11:38	15° m 50'12		direct	6579 Jun 17 03:42	12° Ω 27'42	
retrograde	6572 Dec 21 14:37	19° m 08'49		evening set	6579 Sep 19 05:34	15° ≏ 50'49	
opposition	6573 Mar 06 16:20	17° Mp 06'10			6550 0 . 05 00 01	1 60 0 50100	0040106
min. Earth dist.	6573 Mar 07 00:29		17.89885 AU	conjunction	6579 Oct 05 22:31	16° £ 52'09	
direct	6573 May 20 08:58	15° Mp 03'40		minimum elong	6579 Oct 05 22:31	16° Ω 52'09	0°49'38
evening set	6573 Aug 21 01:55	18° m) 19'50		max. Earth dist.	6579 Oct 05 06:22		19.52752 AU
	(572 S 0(17.22	100 m 10142	0946106	morning rise	6579 Oct 22 14:33	17° £ 53'24	
conjunction	6573 Sep 06 17:33	19° Mp 19'42		retrograde	6580 Jan 23 22:41	21° Ω 15'50	0055101
minimum elong max. Earth dist.	6573 Sep 06 17:33 6573 Sep 06 06:04	19° Mp 19'42	0°46'05 19.86546 AU	opposition min. Earth dist.	6580 Apr 07 00:59 6580 Apr 07 15:31	19° £ 12'39	0°55'01 17.50563 AU
	•		19.80340 AU		•		17.30303 AU
morning rise	6573 Sep 23 10:05	20° m 19'44		direct	6580 Jun 21 00:31	17° Ω 07'59	
retrograde opposition	6573 Dec 26 09:25 6574 Mar 11 08:40	23° Mp 38'57 21° Mp 36'07	0°52'02	evening set max. Earth dist.	6580 Sep 23 08:55 6580 Oct 09 08:03	20° £ 32'09	19.48412 AU
* *				max. Earm dist.	0380 001 09 08.03	21 == 30 36	19.46412 AU
min. Earth dist.	6574 Mar 11 18:47	-	17.83273 AU	aaniumatian	6590 Oat 10 01:45	210022140	0°49'05
direct	6574 May 25 01:34	19° Mp 33'12		conjunction	6580 Oct 10 01:45	21° Ω 33'40	
evening set	6574 Aug 26 00:28	22° m 50'33		minimum elong morning rise	6580 Oct 10 01:45 6580 Oct 26 17:36	21° £ 33'40 22° £ 35'04	0°49'06
conjunction	6574 Sep 11 16:34	23° m 50'42	0°47'26	retrograde	6581 Jan 27 23:40	25° £ 35′04 25° £ 57′53	
•	•			•			0054116
minimum elong	6574 Sep 11 16:34	23° Mp 50'42		opposition	6581 Apr 11 22:05	23° £ 54'42	
max. Earth dist.	6574 Sep 28 09:10		19.80054 AU	min. Earth dist.	6581 Apr 12 12:39		17.46397 AU
morning rise	6574 Sep 28 09:10	24° Mp 50'57		direct	6581 Jun 25 23:41	21° Ω 49'49	
retrograde	6574 Dec 31 06:52	28° Mp 10'47	0°53!24	evening set	6581 Sep 28 12:50	25° £ 14'57	10 44404 411
opposition	6575 Mar 16 01:37	26° Mp 07'47		max. Earth dist.	6581 Oct 14 11:52	20 == 13 33	19.44404 AU
min. Earth dist. direct	6575 Mar 16 11:33	•	17.76920 AU	conjunction	6581 Oct 15 05:37	26° £ 16'38	0°48'13
						/II == ID 1X	
	6575 May 29 20:30	24° Mp 04'29		v			
evening set	6575 Aug 30 23:47	24° 11004°29 27° 11004°29		minimum elong	6581 Oct 15 05:37	26° ≏ 16'38	0°48'15
	•		0°48'30	v			

retrograde	6582 Feb 01 23:22	0° M 41'16		evening set	6588 Nov 01 22:58	28° M 37'34	
retrograde	6582 Mar 13 16:23	30°R <u>₽</u>		evening set	0300 1101 01 22.30	20 11037 34	
opposition	6582 Apr 16 19:54	28° ≏ 38'06	0°53'08	conjunction	6588 Nov 18 12:30	29°M39'34	0°33'26
min. Earth dist.	6582 Apr 17 11:47	28° ≏ 36'21	17.42566 AU	minimum elong	6588 Nov 18 12:30	29°M39'34	0°33'29
direct	6582 Jun 30 22:39	26° £ 32'59		max. Earth dist.	6588 Nov 17 17:07	29°M36'32	19.28817 AU
evening set	6582 Oct 03 17:17	29° ≙ 59'01			6588 Nov 23 22:26	0°⊀	
	6582 Oct 03 23:48	0°M₊		morning rise	6588 Dec 04 23:15	0° ∡ 41'11	
				retrograde	6589 Mar 07 00:18	4° ≯ 04'33	
conjunction	6582 Oct 20 09:42	1° M 00'49	0°47'02	opposition	6589 May 19 16:11	2° ₹ 01′28	0°35'34
minimum elong	6582 Oct 20 09:42	1° M 00'49	0°47'04	min. Earth dist.	6589 May 20 08:31	1° ₹ 59'41	17.28810 AU
max. Earth dist.	6582 Oct 19 14:14	0° M 57'47	19.40765 AU		6589 Jul 21 03:21	30°RM	
morning rise	6582 Nov 06 00:38	2°M02'26		direct	6589 Aug 03 14:31	29°M55'10	
retrograde	6583 Feb 06 23:54	5°M25'48			6589 Aug 16 23:25	0° √	
opposition	6583 Apr 21 18:11	3°M22'37	0°51'39	evening set	6589 Nov 07 03:36	3° х 24′36	
min. Earth dist.	6583 Apr 22 10:07	3°M20'52	17.39125 AU				
direct	6583 Jul 05 23:04	1° M 17'17		conjunction	6589 Nov 23 16:27	4° ≯ 26'32	0°30'15
evening set	6583 Oct 08 21:47	4°M44'05		minimum elong	6589 Nov 23 16:28	4° ₹ 26'32	0°30'18
				max. Earth dist.	6589 Nov 22 22:27		19.28914 AU
conjunction	6583 Oct 25 14:05	5°M46'01	0°45'31	morning rise	6589 Dec 10 02:16	5° ₹ 28'04	
minimum elong	6583 Oct 25 14:05	5°M46'01	0°45'32	retrograde	6590 Mar 12 01:25	8° ₹ 51'13	
max. Earth dist.	6583 Oct 24 19:12		19.37519 AU	opposition	6590 May 24 16:47	6° ₹ 48'15	
morning rise	6583 Nov 11 04:20	6°M47'41		min. Earth dist.	6590 May 25 07:42		17.29235 AU
retrograde	6584 Feb 11 23:58	10°M11'14	0040147	direct	6590 Aug 08 17:58	4° × ⁷ 41'59	
opposition min. Earth dist.	6584 Apr 25 17:02	8°M08'02	0°49'47	evening set	6590 Nov 12 08:05	8° ⊀ 11'29	
	6584 Apr 26 09:42		17.36086 AU		(500 NI 20 20-0(00.712120	0026151
direct	6584 Jul 10 00:36 6584 Oct 13 02:53	6°MJ02'30 9°MJ30'00		conjunction	6590 Nov 28 20:06	9° ₹ 13'20 9° ₹ 13'20	0°26'51 0°26'54
evening set	0384 Oct 13 02.33	9 11630 00		minimum elong max. Earth dist.	6590 Nov 28 20:06 6590 Nov 28 02:31		19.29681 AU
conjunction	6584 Oct 29 18:39	10° M .31'59	0°43'41	morning rise	6590 Dec 15 05:01	10° √ 14'45	19.29081 AU
minimum elong	6584 Oct 29 18:39	10°ML31'59	0°43'43	retrograde	6591 Mar 17 01:26	13° х 14 43	
max. Earth dist.	6584 Oct 28 22:11		19.34710 AU	opposition	6591 May 29 17:35	11° × 37'59	0°28'00
morning rise	6584 Nov 15 08:27	11°M33'42	17.54/10 AO	min. Earth dist.	6591 May 30 08:36		17.30338 AU
retrograde	6585 Feb 15 23:32	14°ML57'21		direct	6591 Aug 13 19:55	9°×728'38	17.50550710
opposition	6585 Apr 30 16:07	12°M54'09	0°47'35	evening set	6591 Nov 17 12:07	12° × 58'09	
min. Earth dist.	6585 May 01 08:58		17.33517 AU	evening sec	00)111011/12101	12 7. 00 07	
direct	6585 Jul 15 02:31	10°ML48'23		conjunction	6591 Dec 03 23:21	13° ₹ ′59'52	0°23'16
evening set	6585 Oct 18 07:56	14°M16'30		minimum elong	6591 Dec 03 23:21	13° ₹ 59'52	0°23'19
C	6585 Oct 30 01:04	15° M ₊		max. Earth dist.	6591 Dec 03 06:49		19.31111 AU
				morning rise	6591 Dec 20 07:24	15° ₹ '01'09	
conjunction	6585 Nov 03 23:24	15°ML18'32	0°41'32	retrograde	6592 Mar 21 02:28	18° ∡ °23'45	
minimum elong	6585 Nov 03 23:24	15° M .18'32	0°41'35	opposition	6592 Jun 02 18:25	16° ₰ 21'09	0°23'55
max. Earth dist.	6585 Nov 03 03:59	15°M15'30	19.32385 AU	min. Earth dist.	6592 Jun 03 07:50	16° √ 19'41	17.32056 AU
morning rise	6585 Nov 20 12:23	16°M20'16		direct	6592 Aug 17 23:52	14° ₹ 15'04	
retrograde	6586 Feb 20 23:54	19°M43'55		evening set	6592 Nov 21 15:58	17° ∡ ⁴44'28	
opposition	6586 May 05 15:44	17° M 40'44	0°45'02	max. Earth dist.	6592 Dec 07 10:44	18° ∡ ⁴43'37	19.33116 AU
min. Earth dist.	6586 May 06 08:37	17° M 38'53	17.31446 AU				
direct	6586 Jul 20 05:51	15°M34'48		conjunction	6592 Dec 08 02:17	18° х 46′03	0°19'33
evening set	6586 Oct 23 13:00	19°M03'22		minimum elong	6592 Dec 08 02:17	18° ≯ ⁴46′03	0°19'36
max. Earth dist.	6586 Nov 08 07:23	20°M02'14	19.30593 AU	morning rise	6592 Dec 24 09:17	19° ∡ ′47′10	
				retrograde	6593 Mar 26 01:31	23° ₹ 09'25	
conjunction	6586 Nov 09 03:46	20°M05'26		opposition	6593 Jun 07 19:26	21° 🗷 07'02	
minimum elong	6586 Nov 09 03:46	20°M05'26	0°39'09	min. Earth dist.	6593 Jun 08 09:11		17.34337 AU
morning rise	6586 Nov 25 16:09	21°M07'09		direct	6593 Aug 23 02:00	19° ∡ 01'06	
retrograde	6587 Feb 25 23:27	24°M30'47	0042110	evening set	6593 Nov 26 19:21	22° ∡ ³30′18	
opposition	6587 May 10 15:40	22°M27'35			(502 D 12 04 40	220 721142	0015142
min. Earth dist.	6587 May 11 08:38		17.29949 AU	conjunction	6593 Dec 13 04:40	23° 🗷 31'42	
direct	6587 Jul 25 08:31	20°M21'29		minimum elong	6593 Dec 13 04:40 6593 Dec 13 03:30	23° 尽 31'42 23° 尽 31'31	U 15'44
evening set	6587 Oct 28 17:57	23°M50'27		behind sun begin behind sun end	6593 Dec 13 05:50	23° × '31'51	
conjunction	6587 Nov 14 08:16	24°M52'30	0°36'24	max. Earth dist.	6593 Dec 12 13:38	23°×'31'33	19.35663 AU
minimum elong	6587 Nov 14 08:16	24° ML52'30	0°36'27	max. Earth dist.	6593 Dec 29 10:46	23° x '29'20' 24° x '32'38	17.55005 AU
max. Earth dist.	6587 Nov 13 13:14	24°M49'31		retrograde	6594 Mar 31 02:00	24 x · 32 38 27° x · 54'30	
morning rise	6587 Nov 30 19:47	25°M54'10	17.27373 AU	opposition	6594 Jun 12 20:26	25° х 52'19	0°15'19
retrograde	6588 Mar 02 00:16	29°MJ17'41		min. Earth dist.	6594 Jun 13 08:25		17.37120 AU
opposition	6588 May 14 15:42	27°MJ14'33	0°39'00	direct	6594 Aug 28 06:21	23° х 46'33	-,.5,120710
min. Earth dist.	6588 May 15 08:00		17.29050 AU	evening set	6594 Dec 01 22:00	27° ₹ 15'25	
direct	6588 Jul 29 12:09	25°ML08'19					

21°**る**44'43

22°る43'18 26°る01'51

21°**る**56'10

25°**る**20'59

26°**る**19'56

26°**පි**21'15

27°**る**19'46

0°**≈** 0°**≈**37'39

30°Ŗる

26°る32'22

29°**る**56'13

0°≈

21°る42'25 19.59499 AU

24°ත්00'43 -0°11'38 24°ත්00'00 17.62044 AU

26°**る**20'36 -0°12'29

26°る20'36 0°12'26

28°る36'39 -0°15'57

28°る36'03 17.67408 AU

26°る19'36 19.64693 AU

conjunction	6594 Dec 18 06:27	28° ∡ 16'38	0°11'45	behind sun end	6600 Jan 11 10:18
minimum elong	6594 Dec 18 06:27	28° ∡ 16'37	0°11'48	max. Earth dist.	6600 Jan 10 19:21
behind sun begin	6594 Dec 18 01:47	28° ∡ 15'54		morning rise	6600 Jan 27 04:48
behind sun end	6594 Dec 18 11:07	28° ∡ 17′20		retrograde	6600 Apr 28 11:19
max. Earth dist.	6594 Dec 17 16:55	28° ∡ 14'30	19.38675 AU	opposition	6600 Jul 11 22:36
morning rise	6595 Jan 03 11:27	29° ∡ 17′21		min. Earth dist.	6600 Jul 12 05:17
	6595 Jan 15 08:18	8°0		direct	6600 Sep 26 22:07
retrograde	6595 Apr 05 00:11	2° る 38'47		evening set	6600 Dec 30 23:02
opposition	6595 Jun 17 21:31	0° る 36'48	0°10'52		
min. Earth dist.	6595 Jun 18 09:46	0° る 35'29	17.40351 AU	conjunction	6601 Jan 16 01:27
	6595 Jul 02 07:46	30°₽ ⋌ ¹		minimum elong	6601 Jan 16 01:26
direct	6595 Sep 02 08:44	28° ₹ 31'14		behind sun begin	6601 Jan 15 21:05
	6595 Oct 31 20:25	0°ප		behind sun end	6601 Jan 16 05:48
evening set	6595 Dec 07 00:16	1° る 59'39		max. Earth dist.	6601 Jan 15 18:55
				morning rise	6601 Feb 01 00:40
conjunction	6595 Dec 23 07:37	3° ट 00'38	0°07'44		6601 Mar 27 00:17
minimum elong	6595 Dec 23 07:37	3° る 00'38	0°07'47	retrograde	6601 May 03 06:26
behind sun begin	6595 Dec 23 01:36	2° る 59'43			6601 Jun 10 17:05
behind sun end	6595 Dec 23 13:38	3° ප 01'33		opposition	6601 Jul 16 21:42
max. Earth dist.	6595 Dec 22 18:10		19.42119 AU	min. Earth dist.	6601 Jul 17 03:25
morning rise	6596 Jan 08 11:45	4° る 01'08		direct	6601 Oct 01 22:41
retrograde	6596 Apr 08 23:29	7° る 22'04		evening set	6602 Jan 04 20:03
opposition	6596 Jun 21 22:08	5° る 20'17	0°06'21		6602 Jan 05 21:04
min. Earth dist.	6596 Jun 22 08:40		17.43985 AU		
direct	6596 Sep 06 12:58	3° ⋜ 14'54			
evening set	6596 Dec 11 01:47	6° る 42'48			
	(50(P	70742122	0002141		
conjunction	6596 Dec 27 08:15	7°る43'33	0°03'41		
minimum elong	6596 Dec 27 08:14	7°る43'33	0°03'44		
behind sun begin	6596 Dec 27 01:38	7°る42'32			
behind sun end	6596 Dec 27 14:51	7° る 44'33	10 45020 ATT		
max. Earth dist.	6596 Dec 26 20:38	8° る 43'48	19.45939 AU		
morning rise	6597 Jan 12 11:13				
retrograde opposition	6597 Apr 13 20:40 6597 Jun 26 22:55	12°る04'12 10°る02'36	0001140		
min. Earth dist.	6597 Jun 26 22:55 6597 Jun 27 09:28		0°01'48 17.47983 AU		
direct	6597 Sep 11 15:16	7° る 57'26	17.47965 AU		
desc. node	6597 Nov 20 16:06	9° る 57'18			
evening set	6597 Dec 16 02:29	9 ප 3718			
evening set	0397 DCC 10 02.29	11 02441			
conjunction	6598 Jan 01 07:45	12° る 25'09	-0°00'29		
minimum elong	6598 Jan 01 07:45	12° る 25'09			
behind sun begin	6598 Jan 01 01:07	12° る 24'09	0 00 23		
behind sun end	6598 Jan 01 14:22	12° る 21'0			
max. Earth dist.	6597 Dec 31 20:12		19.50120 AU		
morning rise	6598 Jan 17 09:55	13° る 25'10			
retrograde	6598 Apr 18 18:47	16° る 45'00			
opposition	6598 Jul 01 23:12	14° る 43'33	-0°02'44		
min. Earth dist.	6598 Jul 02 07:57		17.52335 AU		
direct	6598 Sep 16 18:53	12° る 38'35			
evening set	6598 Dec 21 02:14	16° පි 05'06			
-					
conjunction	6599 Jan 06 06:40	17° る 05'19	-0°04'35		
minimum elong	6599 Jan 06 06:39	17° る 05'19	0°04'32		
behind sun begin	6599 Jan 06 00:08	17° る 04'19			
behind sun end	6599 Jan 06 13:10	17° පි 06'18			
max. Earth dist.	6599 Jan 05 21:23	17° る 03'53	19.54640 AU		
morning rise	6599 Jan 22 07:42	18° る 05'03			
retrograde	6599 Apr 23 14:36	21° る 24'15			
opposition	6599 Jul 06 23:07	19° る 22'59	-0°07'13		
min. Earth dist.	6599 Jul 07 07:33	19° る 22'05	17.57018 AU		
direct	6599 Sep 21 20:31	17° る 18'13			
evening set	6599 Dec 26 01:13	20° る 43'55			
conjunction	6600 Jan 11 04:29	21° る 43'50			
minimum elong	6600 Jan 11 04:29	21° る 43'50	0°08'30		
hehind sun hegin	6600 Ian 10 22:40	21°₹42'57			

behind sun begin 6600 Jan 10 22:40 21° ₹42'57