conjunction	102 Jan 31 j 09:06	10° ≈ 32'02	-1°04'57		106 Oct 09 j 07:20	0° т р	
minimum elong	102 Jan 31 j 09:47	10° ≈ 33'24	1°04'58		106 Nov 27 j 23:45	0∘ ত	
	102 Feb 25 j 06:59	0° ∀			107 Jan 20 j 22:22	o° m ₊	
max. Earth dist.	102 Mar 15 j 19:41	14°) (15′22	2.38791 AU	retrograde	107 Apr 09 j 14:23	25°M27'53	
	102 Apr 05 j 16:17	$0^{\circ}\mathbf{\Upsilon}$		desc. node	107 Apr 16 j 16:07	25°M09'02	
morning rise	102 Apr 10 j 15:55	3° Ƴ 42'35		opposition	107 May 12 j 16:38	19° M 12'35	-1°29'32
	102 May 16 j 21:31	0°8		greatest brilliancy	107 May 13 j 03:16	19° M 04'01	-2.5m
asc. node	102 Jun 24 j 08:41	26° 8 33'22		min. Earth dist.	107 May 20 j 20:06	16°M35'53	0.44799 AU
	102 Jun 29 j 12:07	$\Pi^{\circ}0$		direct	107 Jun 17 j 17:25	11°M37'20	
	102 Aug 15 j 02:53	0 \circ \odot			107 Aug 14 j 07:54	0° ∡ 7	
	102 Oct 05 j 13:10	$0^{\circ}\Omega$			107 Sep 30 j 21:13	8°0	
	102 Dec 18 j 06:38	O° Mp			107 Nov 11 j 21:20	0° ≈	
retrograde	103 Jan 04 j 11:00	1°Mp41'37			107 Dec 23 j 00:58	0°) €	
	103 Jan 20 j 17:32	30° ₹Ω			108 Feb 02 j 22:34	$0^{\circ}\mathbf{\Upsilon}$	
opposition	103 Feb 12 j 15:48	22° Ω 34'20	4°27'43	asc. node	108 Feb 14 j 04:49	7° Ƴ 53'55	
greatest brilliancy	103 Feb 13 j 03:59	22° Ω 22'24	-1.4m		108 Mar 17 j 07:31	8°	
min. Earth dist.	103 Feb 16 j 03:06	21° Ω 12'41	0.65740 AU		108 May 01 j 07:38	$\Pi^{\circ}0$	
direct	103 Mar 26 j 01:32	12° Ω 32′23		evening set	108 May 21 j 00:16	12° Ⅱ 50'14	
	103 May 26 j 17:39	O° Mp			108 Jun 16 j 15:21	0 \circ \odot	
desc. node	103 Jul 12 j 18:03	25° m 58'11					
	103 Jul 19 j 05:40	0∘ ⊽		conjunction	108 Jul 08 j 03:32	13° © 45'16	1°04'43
	103 Sep 02 j 00:22	0°M		minimum elong	108 Jul 08 j 02:40	13° © 43'54	1°04'44
	103 Oct 12 j 22:18	0° ∡ ¹		max. Earth dist.	108 Jul 11 j 13:32	15° © 56'00	2.67024 AU
	103 Nov 20 j 19:18	ರ°0			108 Aug 02 j 15:28	$0^{\circ}\Omega$	
	103 Dec 28 j 22:17	0° ≈		morning rise	108 Aug 22 j 11:27	12° Ω 37'51	
evening set	104 Feb 05 j 05:52	29° ≈ 54'05			108 Sep 18 j 16:30	0° m	
	104 Feb 05 j 08:56	0° ∀			108 Nov 04 j 09:20	0∘ ⊽	
	104 Mar 16 j 00:15	0 ° Υ			108 Dec 20 j 19:02	0°M₊	
					109 Feb 05 j 09:51	0° ∡ ¹	
conjunction	104 Apr 08 j 19:47	17° Ƴ 24'38	-0°20'01	desc. node	109 Mar 03 j 15:29	16° ∡ ³32'21	
minimum elong	104 Apr 08 j 21:08	17° Ƴ 27'04	0°19'59		109 Mar 25 j 17:34	8°0	
	104 Apr 26 j 11:20	8°			109 May 23 j 17:06	0° ≈	
asc. node	104 May 11 j 07:14	10° 8 22'28		retrograde	109 Jun 26 j 08:39	6° ≈ 42'29	
max. Earth dist.	104 May 18 j 00:36	15° 8 01'12	2.51998 AU	min. Earth dist.	109 Jul 25 j 03:43	2°≈00'35	0.37509 AU
morning rise	104 Jun 05 j 14:04	27° 8 39'20		opposition	109 Jul 26 j 21:40	1° ≈ 32'38	-6°53'02
	104 Jun 09 j 01:43	Π $^{\circ}0$		greatest brilliancy	109 Jul 26 j 13:40	1° ≈ 37'58	-2.9m
	104 Jul 24 j 20:35	0°ಅ			109 Aug 01 j 19:45	30°₽₹	
	104 Sep 10 j 22:19	$0^{\circ}\Omega$		direct	109 Aug 25 j 10:57	26° る 37'09	
	104 Nov 01 j 10:17	O° Mp			109 Sep 17 j 18:08	0° ≈	
	105 Jan 03 j 14:32	0∘ ত			109 Nov 19 j 23:39	0° ℋ	
retrograde	105 Feb 13 j 06:47	8° ≙ 13'27		asc. node	110 Jan 01 j 04:22	26° ₩ 01'16	
opposition	105 Mar 22 j 06:52	0° ჲ 09'53	2°54'18		110 Jan 07 j 10:46	0 ° $\mathbf{\gamma}$	
	105 Mar 22 j 17:28	30°R, Mp			110 Feb 23 j 08:16	9° 8	
greatest brilliancy	105 Mar 23 j 01:48	29° M 52'14	-1.7m		110 Apr 11 j 11:06	Π $\circ 0$	
min. Earth dist.	105 Mar 29 j 08:51	27° Mp 31'27	0.57591 AU		110 May 28 j 23:45	0 \circ \odot	
direct	105 May 01 j 17:59	20° m 32'10		evening set	110 Jun 29 j 04:21	19° © 40'53	
desc. node	105 May 29 j 17:26	25° Mp 09'50			110 Jul 15 j 11:04	$0^{\circ}\Omega$	
	105 Jun 12 j 03:29	0∘ ⊽		max. Earth dist.	110 Aug 03 j 21:00	12° Ω 22'34	2.66490 AU
	105 Aug 06 j 10:26	0°M₊					
	105 Sep 18 j 22:45	0° ∡		conjunction	110 Aug 14 j 01:39	18° Ω 54'57	
	105 Oct 28 j 22:20	0°₹		minimum elong	110 Aug 14 j 02:11	18° Ω 55'49	1°07'34
	105 Dec 06 j 18:17	0° ≈			110 Aug 31 j 05:29	0°Щ	
	106 Jan 14 j 20:12	0°) €		morning rise	110 Sep 27 j 18:30	18° m 01'44	
	106 Feb 24 j 02:57	0° Υ			110 Oct 15 j 18:52	0ಂ ರಾ	
asc. node	106 Mar 29 j 05:15	23° Y 42'57			110 Nov 28 j 22:34	0°M	
evening set	106 Apr 05 j 19:39	29° Y ′02′23		_	111 Jan 10 j 18:34	0° ∡	
	106 Apr 07 j 04:43	0° 8		desc. node	111 Jan 19 j 14:32	6° ∡ 17'15	
	106 May 21 j 05:42	$\Pi^{\circ}0$			111 Feb 21 j 13:33	0° ට	
					111 Apr 03 j 21:56	0° ≈	
conjunction	106 May 29 j 15:18	5° Ⅱ 34'58			111 May 16 j 04:53	0°) €	
minimum elong	106 May 29 j 13:55	5° Ⅲ 32'41		_	111 Jul 02 j 16:41	0° Υ	
max. Earth dist.	106 Jun 17 j 22:46		2.62130 AU	retrograde	111 Aug 30 j 08:20	19° Y 17'13	
	106 Jul 06 j 00:44	0°95		min. Earth dist.	111 Sep 27 j 16:54	13° Υ 46'23	
morning rise	106 Jul 17 j 20:39	7° 9 36'07		opposition	111 Oct 05 j 21:22	10°Υ53'14	
	106 Aug 22 j 03:23	0 $^{\circ}\Omega$		greatest brilliancy	111 Oct 05 j 05:49	11° Y 06′58	-2.4m

direct	111 Nov 07 j 20:24	4° Ƴ 04'44			116 Nov 09 j 16:36	0°⊀	
asc. node	111 Nov 19 j 02:59	4° Υ 52'41		max. Earth dist.	116 Dec 09 j 14:14	23° ₹ 03'30	2.37870 AU
	112 Jan 24 j 19:19	$_{0\circ}$ 8			116 Dec 18 j 11:17	0°ಕ	
	112 Mar 18 j 19:19	Π $^{\circ}$ 0					
	112 May 08 j 04:38	0ංම		conjunction	117 Jan 02 j 20:35	12° පි 06'01	
	112 Jun 25 j 22:04	0 $^{\circ}\Omega$		minimum elong	117 Jan 02 j 18:31	12° る 01'55	1°00'20
evening set	112 Aug 04 j 16:16	25° Ω 15'33			117 Jan 25 j 12:59	0° ≈	
	112 Aug 11 j 23:51	0° m)			117 Mar 04 j 19:46	0° ∀	
max. Earth dist.	112 Aug 28 j 01:49	10° mg 31′56	2.60616 AU	morning rise	117 Mar 13 j 11:38	6°) 41'41	
	1100 00:0505	250m 50112	0040104		117 Apr 13 j 04:24	0° Υ	
conjunction	112 Sep 20 j 05:07	25° m 58'42			117 May 24 j 09:26	0° X	
minimum elong	112 Sep 20 j 06:24	26° Mp 00'51	0°43'23	Ī	117 Jul 07 j 04:06	0°II	
	112 Sep 26 j 03:38	0° ⊽		asc. node	117 Jul 10 j 23:26	2° I I30'39	
morning rise	112 Nov 06 j 19:48	28° ♀ 56'26			117 Aug 23 j 13:14	0° ©	
	112 Nov 08 j 07:36	0°M			117 Oct 17 j 08:22	0° Ω	
desc. node	112 Dec 06 j 13:03	20°M20′26 0°⊀		retrograde	117 Dec 21 j 10:52	18° Ω 48'52 9° Ω 24'28	4927104
	112 Dec 19 j 16:37 113 Jan 28 j 16:46	0° X '		opposition	118 Jan 30 j 03:16 118 Jan 30 j 09:37	9° Ω 18'10	
				greatest brilliancy	•		
	113 Mar 08 j 22:45	0° ≈ 0° ∀		min. Earth dist.	118 Feb 01 j 02:03 118 Mar 02 j 21:56	8° № 38'06 30° №	0.67197 AU
	113 Apr 17 j 07:11	0° Υ		direct	118 Mar 12 j 08:42	30°RSS 29°SS25'42	
	113 May 27 j 23:19	0°8		direct	•	29 ≥3 23 42 0° Ω	
	113 Jul 11 j 03:54	0°U			118 Mar 22 j 03:21		
asc. node	113 Sep 05 j 11:51 113 Oct 06 j 01:57	0° Ⅱ 7° Ⅱ 47'05			118 Jun 08 j 13:10	0 ்⊽ 0°™	
retrograde	113 Oct 06 j 01.37 113 Oct 12 j 16:20	7 П 4703 8° П 04'45		desc. node	118 Jul 28 j 07:43 118 Jul 29 j 10:22	0° £ 43'22	
min. Earth dist.		0° П 28'49	0.58996 AU	desc. Hode		0°M	
IIIII. Eartii dist.	113 Nov 15 j 10:13	0 Д2849 30° Ŗ8	0.38990 AU		118 Sep 10 j 04:54	0° ⊼	
opposition	113 Nov 16 j 15:38 113 Nov 21 j 02:30	28° 8 14'15	1°57'25		118 Oct 20 j 19:56 118 Nov 28 j 14:18	0°궁	
greatest brilliancy	113 Nov 21 j 02.30 113 Nov 20 j 15:49	28° 8 24'50	-1.7m		118 Nov 28 j 14.18 119 Jan 05 j 15:09	0°≈	
direct	113 Nov 20 j 13.49 113 Dec 28 j 04:45	19° 8 40'45	-1./111	evening set	119 Jan 08 j 09:16	0 ≈ 2°≈10'21	
direct	113 Dec 28 j 04.43 114 Feb 12 j 02:02	19 3 4043		evening set	119 Jan 08 j 09.16 119 Feb 12 j 22:56	2 ≈1021 0° ∺	
	114 Peb 12 j 02:02 114 Apr 15 j 02:26	0°©			119100 12 1 22.30	0 /	
	114 Apr 13 j 02:20 114 Jun 06 j 02:03	0° U		conjunction	119 Mar 16 j 04:31	23°) 49′54	0°43'20
	114 Jul 24 j 07:02	0° m)		minimum elong	119 Mar 16 j 07:20	23° H 55'11	
	114 Jul 24 j 07.02 114 Sep 07 j 14:37	0∘ ত اللا		minimum clong	119 Mar 24 j 10:29	25 γ (3311 0° γ	0 43 16
evening set	114 Sep 07 j 14.37 114 Sep 14 j 04:37	0 == 4° £ 30'37		max. Earth dist.	119 May 02 j 13:09	28° Y 27'06	2.46826 AU
max. Earth dist.	114 Sep 14 j 04.37 114 Sep 29 j 05:15	4 — 3037 14° ≏ 57'11	2.49989 AU	max. Earth dist.	119 May 04 j 17:33	0° 8	2.40020 AC
max. Lattii dist.	114 Oct 20 j 08:58	0°M	2.47707 AU	morning rise	119 May 17 j 20:15	9° 8 12'37	
desc. node	114 Oct 24 j 12:35	2°M59'57		asc. node	119 May 28 j 22:43	16° 8 53'40	
dese. Hode	114 001 24 j 12.55	2 1103737		use. Houe	119 Jun 17 j 05:51	0°Ⅱ	
conjunction	114 Nov 04 j 05:18	10°M47'46	-0°06'51		119 Aug 02 j 04:25	0°e	
minimum elong	114 Nov 04 j 04:56	10°ML47'04			119 Sep 20 j 01:27	$0 {\circ} \Omega$	
behind sun begin	114 Nov 03 j 08:09	10°ML09'00	0 0031		119 Nov 13 j 14:49	0° m p	
behind sun end	114 Nov 05 j 01:42	11°ML25'10		retrograde	120 Jan 28 j 08:03	23° m 29'29	
	114 Nov 30 j 00:50	0° ∡¹		opposition	120 Mar 06 j 09:00	14° m) 57'00	3°44'51
morning rise	114 Dec 30 j 19:49	23° ∡ ³30'45		greatest brilliancy	120 Mar 07 j 03:38	14° m)39'10	-1.5m
	115 Jan 08 j 04:58	0°る		min. Earth dist.	120 Mar 12 j 03:12	12° m/ 44'50	0.61504 AU
	115 Feb 15 j 15:27	0° ≈		direct	120 Apr 16 j 11:27	5° m 02'37	-
	115 Mar 26 j 04:48	0° ∀		desc. node	120 Jun 15 j 08:53	22° m/ 25'26	
	115 May 04 j 19:14	0° Υ			120 Jun 29 j 20:47	0∘ ⊽	
	115 Jun 15 j 12:05	0°8			120 Aug 17 j 04:39	0° M	
	115 Jul 30 j 21:26	0°II			120 Sep 28 j 05:17	0° ∡ ¹	
asc. node	115 Aug 24 j 01:19	14° Ⅲ 24'45			120 Nov 06 j 14:17	0°ರ	
	115 Sep 23 j 00:25	0°ಅ			120 Dec 15 j 01:01	0° ≈	
retrograde	115 Nov 17 j 21:04	15°517'27			121 Jan 22 j 18:51	0° ∀	
min. Earth dist.	115 Dec 26 j 02:24	6°910'51	0.66303 AU		121 Mar 03 j 17:42	0° Υ	
opposition	115 Dec 28 j 00:47	5° 5 24'18	4°01'43	evening set	121 Mar 15 j 05:57	8° Ƴ 24'50	
greatest brilliancy	115 Dec 27 j 16:56	5°532'11	-1.4m	asc. node	121 Apr 14 j 22:20	0° 8 18'24	
-	116 Jan 11 j 13:49	30°RⅡ			121 Apr 14 j 11:51	0°8	
direct	116 Feb 05 j 20:09	25° Ⅱ 53'23			•		
	116 Mar 04 j 14:12	0°€		conjunction	121 May 11 j 13:04	18° 8 41'39	0°16'00
	116 May 12 j 13:45	$0^{\circ}\Omega$		minimum elong	121 May 11 j 12:15	18° 8 40'15	0°15'59
	116 Jul 03 j 02:44	0° m)			121 May 28 j 06:54	$\Pi^{\circ}0$	
	116 Aug 18 j 10:07	0∘ ⊽		max. Earth dist.	121 Jun 07 j 02:01	6° Ⅲ 31′58	2.58726 AU
desc. node	116 Sep 10 j 11:57	15° ≏ 53'33		morning rise	121 Jul 02 j 11:07	23° Ⅱ 11'32	
	116 Sep 30 j 07:11	0°M₊			121 Jul 12 j 23:39	0ංම	
evening set	116 Nov 02 j 11:01	24°M31'13			121 Aug 29 j 07:36	$0^{\circ}\Omega$	

	121 Oct 17 j 08:04	0° m p		asc. node	126 Dec 05 j 19:13	26° ₩ 01'16	
	121 Dec 08 j 12:46	0∘ ⊽			126 Dec 14 j 04:23	0 ° Υ	
	122 Feb 13 j 02:04	0° M			127 Feb 06 j 20:06	9° 8	
retrograde	122 Mar 16 j 12:45	5° M ₊12'47			127 Mar 28 j 21:28	$\Pi^{\circ}0$	
	122 Apr 14 j 20:25	30° ₹ Ω			127 May 16 j 19:52	0°€	
opposition	122 Apr 20 j 07:51	28° ഫ 08'49	0°40'21		127 Jul 03 j 22:40	$0^{\circ}\Omega$	
greatest brilliancy	122 Apr 20 j 13:53	28° ≙ 03'34	-2.2m	evening set	127 Jul 22 j 00:05	11° Ω 26′29	
min. Earth dist.	122 Apr 28 j 17:08	25° £ 13'46	0.50019 AU	max. Earth dist.	127 Aug 18 j 21:30	29° Ω 22'58	2.63547 AU
desc. node	122 May 03 j 08:13	23° - 43'31	0.50017710	max. Earth dist.	127 Aug 19 j 20:18	0° m)	2.033 17 710
direct	122 May 03 j 06:13	19° ≏ 28'18			12/ Aug 1/ j 20.10	VIII	
direct				:	127 9 05 : 21.40	110 m 1012 4	0056101
	122 Jul 10 j 05:30	0° M		conjunction	127 Sep 05 j 21:49	11° Mp 10'24	0°56'01
	122 Aug 31 j 14:14	0° ∡		minimum elong	127 Sep 05 j 22:58	11° mp 12'19	0°56'01
	122 Oct 13 j 00:56	0°ಕ			127 Oct 04 j 02:38	0∘ ⊽	
	122 Nov 22 j 03:40	0° ≈		morning rise	127 Oct 21 j 20:24	12° ≏ 05'34	
	123 Jan 01 j 03:49	0° ∀			127 Nov 16 j 14:12	0°M₊	
	123 Feb 11 j 05:17	0 ° $\mathbf{\gamma}$		desc. node	127 Dec 24 j 06:06	26° ™ 57'58	
asc. node	123 Mar 02 j 20:34	13° Y 56'54			127 Dec 28 j 10:02	0° ∡ 7	
	123 Mar 25 j 22:38	$_{0\circ}$ 8			128 Feb 06 j 22:46	ರ°0	
evening set	123 May 05 j 05:11	27° 8 10'39			128 Mar 17 j 17:57	0° ≈	
•	123 May 09 j 11:27	$\Pi^{\circ}0$			128 Apr 26 j 17:42	0° ∀	
	, ,				128 Jun 07 j 12:08	$0^{\circ}\mathbf{\Upsilon}$	
conjunction	123 Jun 24 j 02:27	29° Ⅱ 44'02	0°56'22		128 Jul 25 j 01:12	0°8	
minimum elong	123 Jun 24 j 01:10	29° Ⅱ 41'58	0°56'22	retrograde	128 Sep 26 j 22:33	21° 8 19'05	
minimum clong	123 Jun 24 j 12:22	0°9	0 3022	asc. node	128 Oct 22 j 17:17	16° 8 36'03	
max. Earth dist.	123 Jul	5°944'07	2.65751 AU	min. Earth dist.	128 Oct 28 j 14:56	14° 8 28'06	0.54618 AU
		29° 5 23'59	2.03/31 AU				0.34018 AU 0°36'17
morning rise	123 Aug 09 j 12:55			opposition	128 Nov 04 j 14:17	11° 8 47'02	
	123 Aug 10 j 11:36	0° N		greatest brilliancy	128 Nov 04 j 10:07	11° 8 51'03	-2.0m
	123 Sep 26 j 19:51	0° m)		direct	128 Dec 10 j 06:15	3° 8 47'18	
	123 Nov 13 j 08:18	0∘ ⊽			129 Feb 28 j 13:31	$\Pi^{\circ}0$	
	123 Dec 31 j 11:35	0° M .			129 Apr 24 j 10:20	0	
	124 Feb 19 j 22:01	0° ∡ 7			129 Jun 13 j 17:55	$0^{\circ}\Omega$	
desc. node	124 Mar 20 j 07:11	15° ∡ ¹45'51			129 Jul 31 j 09:36	0° m	
	124 Apr 22 j 15:39	0°ಕ		evening set	129 Aug 28 j 16:48	18° m 35′27	
retrograde	124 May 25 j 01:33	5° る 52'22			129 Sep 14 j 14:38	0∘ ⊽	
opposition	124 Jun 24 j 11:13	0° පි 48'08	-5°36'38	max. Earth dist.	129 Sep 15 j 05:19	0° ჲ 25'01	2.54669 AU
greatest brilliancy	124 Jun 25 j 03:24	0° る 37'03	-2.9m				
	124 Jun 27 j 09:32	30°R <i>≯</i> 7		conjunction	129 Oct 16 j 08:19	22° ჲ 02'53	0°15'24
min. Earth dist.	124 Jun 28 j 04:41	29° х 46′58	0.38451 AU	minimum elong	129 Oct 16 j 08:59	22° £ 04'05	0°15'23
direct	124 Jul 25 j 21:37	25° ∡ 17'48		behind sun begin	129 Oct 16 j 02:11	21° ≏ 52'03	
	124 Aug 21 j 23:15	0°ਰ ਹ		behind sun end	129 Oct 16 j 15:48	22° £ 16'07	
	124 Oct 19 j 17:38	0° ≈		bennia sun ena	129 Oct 27 j 12:07	0°M	
	124 Oct 19 j 17:38 124 Dec 04 j 14:26	0° ∺		desc. node	129 Nov 10 j 05:10	9°M54'42	
1-	•	29° ∺ 50'04					
asc. node	125 Jan 17 j 19:25			morning rise	129 Dec 07 j 10:07	0° ∡ 00'40	
	125 Jan 18 j 01:19	0° Υ			129 Dec 07 j 09:46	0° ⊼	
	125 Mar 04 j 01:05	0°B			130 Jan 15 j 20:31	5°0	
	125 Apr 19 j 02:31	0°Щ			130 Feb 23 j 12:57	0° ≈	
	125 Jun 05 j 01:04	0°€			130 Apr 03 j 07:12	0° ∀	
evening set	125 Jun 14 j 10:04	5° 9 57'18			130 May 13 j 03:14	0° Υ	
	125 Jul 22 j 06:23	0 $^{\circ}$ Ω			130 Jun 24 j 07:57	9° 8	
max. Earth dist.	125 Jul 25 j 16:30	2° Ω 10'46	2.67343 AU		130 Aug 10 j 09:09	Π $^{\circ}0$	
				asc. node	130 Sep 09 j 15:59	16° Ⅱ 11'40	
conjunction	125 Jul 30 j 19:59	5° Ω 27'31	1°09'39		130 Oct 18 j 07:39	0ಂ ತಾ	
minimum elong	125 Jul 30 j 19:58	5° Ω 27'31	1°09'39	retrograde	130 Nov 04 j 07:51	1° 5 47'27	
	125 Sep 07 j 01:47	0° m)			130 Nov 20 j 09:27	30°Ŗ Ⅱ	
morning rise	125 Sep 13 j 09:49	4° Mp 06'06		min. Earth dist.	130 Dec 10 j 22:02	23° Ⅱ 12'36	0.64177 AU
C	125 Oct 22 j 23:10	0∘ ⊽		opposition	130 Dec 14 j 08:27		3°26'03
	125 Dec 06 j 18:45	0° M ,		greatest brilliancy	130 Dec 13 j 21:12	22° Ⅱ 01'14	-1.5m
	126 Jan 19 j 14:52	0° ∡ ¹		direct	131 Jan 22 j 05:43	12° Ⅲ 37'23	
desc. node	126 Feb 05 j 06:11	11° х 31'16			131 Mar 26 j 10:51	0°95	
acse. Houe	126 Mar 03 j 19:46	0°る			131 May 23 j 03:20	0°Ω	
	126 Apr 16 j 06:37	0°≈			131 May 23 J 03:20 131 Jul 11 j 22:43	0°m)	
	126 Apr 16 j 00:37 126 Jun 02 j 00:39	0 ≈ 0° ∺				0° ت رااا	
ratragrada	-			daga mada	131 Aug 26 j 18:05		
retrograde	126 Aug 08 j 09:49	24° ¥ 15'57	0.41051 433	desc. node	131 Sep 28 j 03:36	22° △ 32'19	
min. Earth dist.	126 Sep 04 j 06:47		0.41851 AU		131 Oct 08 j 13:10	0°M 3°M 20127	
opposition	126 Sep 11 j 16:59	17° ₩ 08'31		evening set	131 Oct 13 j 03:46	3°M20'27	0.404.04.:==
greatest brilliancy	126 Sep 10 j 14:47	17° ∺ 29'28 11° ∺ 15'41	-2.6m	max. Earth dist.	131 Oct 31 j 01:14		2.42184 AU
direct	126 Oct 12 j 18:19				131 Nov 18 j 00:29	0° ∡ ¹	

conjunction	131 Dec 08 j 18:24	15° ≯ 53'10	-0°43'12		136 Sep 05 j 18:05	$0 {\circ} \Omega$	
minimum elong	131 Dec 08 j 16:01	15° ∡ ¹48'33	0°43'11		136 Oct 26 j 02:02	0° m y	
	131 Dec 26 j 22:19	0°₹			136 Dec 22 j 02:24	0∘ ⊽	
	132 Feb 03 j 02:45	0° ≈		retrograde	137 Feb 23 j 21:39	17° ≏ 46'15	
morning rise	132 Feb 12 j 05:58	7° ≈ 11'05		opposition	137 Apr 01 j 04:25	10° ≙ 01'47	2°13'46
	132 Mar 12 j 11:02	0° ℋ		greatest brilliancy	137 Apr 01 j 20:54	9° ≙ 46'41	-1.9m
	132 Apr 20 j 20:21	0 ° Υ		min. Earth dist.	137 Apr 08 j 20:24	7° ≙ 13'26	0.55050 AU
	132 Jun 01 j 03:02	9° 8		direct	137 May 11 j 00:59	0° ჲ 39'23	
	132 Jul 15 j 05:37	Π $^{\circ}0$		desc. node	137 May 19 j 23:46	1° ≙ 11'02	
asc. node	132 Jul 27 j 16:19	8° Ⅱ 01′20			137 Jul 29 j 08:03	0°M	
	132 Sep 01 j 22:24	0ಂ ತಾ			137 Sep 12 j 13:12	0° ∡ ¹	
	132 Nov 04 j 05:30	$0 {\circ} \Omega$			137 Oct 23 j 03:51	0°ප	
retrograde	132 Dec 07 j 22:11	6° Ω 05'43			137 Dec 01 j 08:13	0° ≈	
	133 Jan 07 j 18:31	30° ₹ 🥯			138 Jan 09 j 16:06	0° ∀	
opposition	133 Jan 16 j 21:51	26°\$27'24	4°32'16		138 Feb 19 j 03:51	0 ° Υ	
greatest brilliancy	133 Jan 16 j 22:09	26°\$27'06	-1.3m	asc. node	138 Mar 19 j 13:04	20° Y 18'34	
min. Earth dist.	133 Jan 17 j 07:58	26°©17'17	0.67624 AU		138 Apr 02 j 09:33	0°8	
direct	133 Feb 26 j 17:35	16° © 36'20		evening set	138 Apr 16 j 23:37	10° 8 03'02	
	133 Apr 21 j 14:01	$0^{\circ}\Omega$			138 May 16 j 13:23	Π $^{\circ}0$	
	133 Jun 18 j 17:23	O° Mp					
	133 Aug 05 j 14:52	0∘ ত		conjunction	138 Jun 08 j 04:56	14° ∏ 56'35	0°43'55
desc. node	133 Aug 15 j 02:18	6° £ 20'39		minimum elong	138 Jun 08 j 03:29	14° Ⅲ 54'13	0°43'54
	133 Sep 17 j 23:23	0° M.		max. Earth dist.	138 Jun 23 j 19:13	25° Ⅱ 05'37	2.63645 AU
	133 Oct 28 j 10:46	0° ∡ ¹			138 Jul 01 j 09:22	0 \circ	
	133 Dec 06 j 04:20	ರ°0		morning rise	138 Jul 26 j 06:16	15° © 56'31	
evening set	133 Dec 11 j 14:21	4° る 15'33			138 Aug 17 j 09:51	$\mathfrak{O}_{\circ} \mathfrak{O}$	
	134 Jan 13 j 04:41	0° ≈			138 Oct 04 j 05:05	0° m	
					138 Nov 21 j 22:21	0∘ 亚	
conjunction	134 Feb 16 j 15:36	27° ≈ 02'18	-1°00'37		139 Jan 11 j 23:45	0° M	
minimum elong	134 Feb 16 j 17:51	27° ≈ 06'42	1°00'36		139 Mar 14 j 03:24	0° ∡ ¹	
	134 Feb 20 j 11:09	0°) €		desc. node	139 Apr 06 j 23:45	7° ∡ 07'13	
	134 Mar 31 j 20:31	$0^{\circ}\mathbf{\Upsilon}$		retrograde	139 Apr 25 j 04:35	9° ∡ 02'34	
max. Earth dist.	134 Apr 08 j 13:46	5° Ƴ 44'09	2.41484 AU	opposition	139 May 27 j 04:44	3° ∡ 16'49	-2°58'59
morning rise	134 Apr 25 j 02:03	17° Ƴ 49'44		greatest brilliancy	139 May 27 j 22:46	3° ₮ 03'08	-2.6m
	134 May 12 j 01:20	8°		min. Earth dist.	139 Jun 03 j 12:20	1° ∡ 04'23	0.42079 AU
asc. node	134 Jun 14 j 15:14	23° 8 18'20			139 Jun 07 j 06:34	30°RM₊	
	134 Jun 24 j 13:35	$\Pi^{\circ}0$		direct	139 Jun 30 j 14:43	26°M27'21	
	134 Aug 09 j 19:46	0 \circ \odot			139 Jul 23 j 20:27	0° ∡ 7	
	134 Sep 29 j 00:01	$0^{\circ}\Omega$			139 Sep 21 j 10:10	8°0	
	134 Nov 29 j 05:21	O° Mp			139 Nov 04 j 14:59	0° ≈	
retrograde	135 Jan 12 j 20:48	9° ™ 45'07			139 Dec 16 j 19:39	0° ∀	
opposition	135 Feb 20 j 16:50	0° Mp49′00	4°16'18		140 Jan 28 j 09:03	0 ° Υ	
greatest brilliancy	135 Feb 21 j 07:48	0° M 34′25	-1.4m	asc. node	140 Feb 04 j 11:28	4° Ƴ 55'45	
	135 Feb 22 j 19:06	30° R Ω			140 Mar 12 j 04:43	B_{0}	
min. Earth dist.	135 Feb 24 j 23:49	29° Ω 08'43	0.64506 AU		140 Apr 26 j 12:05	Π $^{\circ}0$	
direct	135 Apr 03 j 01:39	20° Ω 47'42		evening set	140 May 30 j 02:41	21° ∏ 44′25	
	135 May 15 j 07:36	O° Mp			140 Jun 11 j 23:56	0 \circ \odot	
desc. node	135 Jul 03 j 01:25	24° Mp 13'17					
	135 Jul 12 j 18:25	0∘ ত		conjunction	140 Jul 16 j 11:48	21° © 59'58	1°07'41
	135 Aug 27 j 12:13	0° M,		minimum elong	140 Jul 16 j 11:14	21° © 59'04	1°07'41
	135 Oct 07 j 18:14	0° ∡ ¹		max. Earth dist.	140 Jul 16 j 19:29	22° © 12'13	2.67376 AU
	135 Nov 15 j 18:57	ರ°0			140 Jul 29 j 01:20	$0^{\circ}\Omega$	
	135 Dec 23 j 23:59	0° ≈		morning rise	140 Aug 30 j 09:52	20° Ω 39'04	
	136 Jan 31 j 12:09	0° ∀			140 Sep 13 j 23:49	0° m ⁄	
evening set	136 Feb 20 j 01:25	14° ¥ 55'18			140 Oct 30 j 08:52	0∘ ত	
	136 Mar 11 j 05:01	0 ° Υ			140 Dec 15 j 02:49	0° M	
					141 Jan 29 j 11:48	0° ∡ ¹	
conjunction	136 Apr 21 j 09:24	29° Y 45'58	-0°06'19	desc. node	141 Feb 21 j 23:30	15° ₹ 29'24	
minimum elong	136 Apr 21 j 09:47	29° Y 46'38	0°06'19		141 Mar 16 j 05:34	5°0	
behind sun begin	136 Apr 20 j 11:12	29° Y 06'49			141 May 03 j 23:13	0° ≈	
behind sun end	136 Apr 22 j 08:22	0° 8 26'26		retrograde	141 Jul 13 j 07:31	24° ≈ 52′10	
	136 Apr 21 j 17:22	0°8		min. Earth dist.	141 Aug 09 j 10:37	20° ≈ 24'36	0.38320 AU
asc. node	136 May 01 j 13:33	6° 8 53'58		opposition	141 Aug 13 j 20:32	19° ≈ 10'30	-6°33'00
max. Earth dist.	136 May 25 j 22:59		2.54588 AU	greatest brilliancy	141 Aug 13 j 00:20	19° ≈ 24'42	-2.9m
	136 Jun 04 j 08:11	$\Pi^{\circ}0$		direct	141 Sep 12 j 14:22	14° ≈ 05'41	
morning rise	136 Jun 15 j 19:45	7° Ⅱ 39'51			141 Nov 06 j 21:07	0°) €	
	136 Jul 20 j 00:55	0 \circ \odot		asc. node	141 Dec 22 j 10:05	25°) €03'01	

	1417	0000			14637 15:00.16	220M 51152	0000110
	141 Dec 30 j 16:23	0° Υ		minimum elong	146 Nov 15 j 20:16	22°M51'52	0°20'19
	142 Feb 17 j 07:03	0° B			146 Nov 25 j 08:03	0° ∡	
	142 Apr 06 j 05:14	0°Ⅱ 10°0			147 Jan 03 j 09:57	0°る	
	142 May 24 j 03:56	0°95		morning rise	147 Jan 14 j 12:38	8° ප 39'54	
evening set	142 Jul 07 j 12:44	27° © 54'09			147 Feb 10 j 17:57	0° ≈ 0° ∀	
Fauth diet	142 Jul 10 j 20:12	0°Ω 188Ω4€135	2.65671 ATT		147 Mar 21 j 04:41	0° π 0° Υ	
max. Earth dist.	142 Aug 09 j 06:30	18° Ω 46′25	2.65671 AU		147 Apr 29 j 16:03		
:	142 4 22:07-02	27° Ω 10'31	1904120		147 Jun 10 j 03:12	0°H 0°S	
conjunction	142 Aug 22 j 07:02		1°04'30 1°04'30		147 Jul 24 j 20:40		
minimum elong	142 Aug 22 j 07:50	27° Ω 11'49 0° m)	1 04 30	asc. node	147 Aug 14 j 07:39	12° Ⅱ 40′26 0° ©	
morning rise	142 Aug 26 j 15:34 142 Oct 06 j 06:21	26° Mp 45'40		retrograde	147 Sep 14 j 01:48 147 Nov 25 j 14:18	0 55 23°5915'47	
morning rise	142 Oct 00 j 00:21 142 Oct 11 j 02:20	ე∘ ⴀ		opposition	147 Nov 23 j 14.18 148 Jan 04 j 17:14	13° 9 26'51	4°16'34
	142 Oct 11 j 02:20 142 Nov 24 j 00:03	0° ™		greatest brilliancy	148 Jan 04 j 12:01	13°932'06	-1.3m
	142 Nov 24 j 00:03 143 Jan 05 j 10:37	0° ⊼		min. Earth dist.	148 Jan 03 j 14:58	13°953'12	0.67050 AU
desc. node	143 Jan 09 j 21:53	3° ∡ 12'46		direct	148 Feb 13 j 22:03	3°947'42	0.07030 AU
desc. node	143 Feb 15 j 17:19	3 x 12 40		direct	148 May 05 j 09:28	0°Ω	
	143 Mar 28 j 09:17	0° ≈			148 Jun 27 j 15:01	0° m	
	143 May 08 j 12:58	0 ≈ 0° ∀			148 Aug 13 j 10:27	0∘ ਦ راآا	
	143 Jun 21 j 18:14	0° Υ		desc. node	148 Aug 31 j 18:18	0 == 12° £ 30'11	
	143 Juli 21 j 18.14 143 Aug 24 j 04:54	0°8		desc. Hode	148 Sep 25 j 11:49	0°M	
retrograde	143 Sep 10 j 09:18	2° 8 01'38			148 Nov 04 j 22:16	0° ⊼	
renograde	143 Sep 10 j 09:18 143 Sep 26 j 23:27	2 O01 38 30°RΥ		evening set	148 Nov 15 j 18:57	8° ∡ 18'20	
min. Earth dist.	143 Sep 20 j 23:27 143 Oct 09 j 20:51	26° Y 01'49	0.49588 AU	evening set	148 Nov 13 j 16:37 148 Dec 13 j 16:48	0°る	
opposition	143 Oct 17 j 19:32	23° Y 06'59			146 DCC 13 J 10.46	0 0	
greatest brilliancy	143 Oct 17 j 11:53	23° Y 14'01	-2.2m	conjunction	149 Jan 18 j 17:37	28° ♂ 24'30	1004'51
asc. node	143 Oct 17 j 11:53 143 Nov 09 j 09:51	16° Y 43'02	-2.2111	minimum elong	149 Jan 18 j 16:55	28° る 23'07	
direct	143 Nov 09 j 09:31 143 Nov 20 j 19:43	15° Υ 50'32		minimum ciong	149 Jan 20 j 18:00	28 3 23 07 0° ≈	1 04 30
direct	144 Jan 13 j 18:48	0° 8		max. Earth dist.	149 Feb 06 j 05:49		2.37329 AU
	144 Mar 12 j 06:41	0°II		max. Earth dist.	149 Feb 28 j 00:10	0° \	2.37329 AO
	144 May 02 j 21:00	0°ഇ		morning rise	149 Mar 29 j 17:56	22° ∺ 47'27	
	144 Jun 21 j 02:21	0°Ω		morning risc	149 Apr 08 j 08:09	22 γ (4/2/ 0° γ	
	144 Aug 07 j 08:56	0° m)			149 May 19 j 11:49	0°8	
evening set	144 Aug 13 j 05:53	3° m)49'13		asc. node	149 Jul 01 j 07:10	29° 8 28'31	
max. Earth dist.	144 Sep 03 j 08:28	17° m) 44'28	2.58691 AU	asc. node	149 Jul 02 j 02:04	0° Ⅱ	
max. Latin dist.	144 Sep 03 j 08:28 144 Sep 21 j 13:21	0° ⊽	2.38091 AU		149 Aug 17 j 21:32	0°ಅ	
	144 Sep 21 j 13.21	٥ –			149 Oct 09 j 07:55	$0 {\circ} \Omega$	
conjunction	144 Sep 29 j 08:21	5° ₽ 19'16	0°34'15	retrograde	149 Dec 29 j 10:28	26° Ω 37'57	
minimum elong	144 Sep 29 j 08:21	5° £ 21'19		opposition	150 Feb 06 j 20:26	17° Ω 22'34	1°32'31
minimum clong	144 Nov 03 j 15:13	0° M	0 34 14	greatest brilliancy	150 Feb 07 j 06:05	17° Ω 13'04	-1.3m
morning rise	144 Nov 17 j 05:41	9° ጤ 46'11		min. Earth dist.	150 Feb 09 j 15:18	16° Ω 16'38	0.66513 AU
desc. node	144 Nov 26 j 20:55	16°M46'13		direct	150 Mar 20 j 04:19	7° Ω 21'21	0.00313 AC
desc. flode	144 Dec 14 j 20:03	0° ⊼ °		direct	150 May 31 j 19:29	0° Mp	
	145 Jan 23 j 15:04	0°ਤੇ		desc. node	150 Jul 19 j 17:24	28° Mp 12'07	
	145 Mar 03 j 15:38	0° ≈		desc. node	150 Jul 22 j 13:23	0° ഫ	
	145 Apr 11 j 17:44	0° ∀			150 Sep 04 j 23:46	o° m .	
	145 May 22 j 00:09	0° Υ			150 Sep 04 j 25.40 150 Oct 15 j 19:30	0° ⊼ 1	
	145 Jul 04 j 04:10	%8 0°8			150 Nov 23 j 15:48	°ਤ ਨ	
	145 Aug 23 j 23:31	0°II		greatest brilliancy	150 Dec 23 j 09:34	23° පි 25'11	1.2m
asc. node	145 Aug 25 j 25:51 145 Sep 26 j 09:08	13° Ⅱ 33'28		greatest oriniancy	150 Dec 23 j 09:54 150 Dec 31 j 17:50	23 3 23 11 0° ≈	1,2111
retrograde	145 Oct 21 j 04:07	17° Ⅱ 19'37		evening set	151 Jan 24 j 06:55	0 ~ 18° ≈ 29'05	
min. Earth dist.	145 Nov 24 j 23:27	9° Ⅱ 21'11	0.61082 AU	croning set	151 Feb 08 j 02:34	0° H	
opposition	145 Nov 29 j 20:48	7° ∏ 24'17			151 Mar 19 j 15:13	0° Υ	
greatest brilliancy	145 Nov 29 j 08:46	7° I I36'18			131 Widi 17 J 13.13	0 1	
Siculost offiliancy	145 Nov 29 j 08.40 145 Dec 23 j 01:04	30°R ∀	1.0111	conjunction	151 Mar 30 j 12:34	8° Y 02'46	-0°30'17
direct	146 Jan 06 j 15:13	28° 8 35'21		minimum elong	151 Mar 30 j 14:39	8° Υ 06'36	
direct	146 Jan 22 j 04:25	0°II		minimum ciong	151 Apr 29 j 23:14	0°8	0 30 10
	146 Apr 08 j 05:08	0ංම 0 H		max. Earth dist.	151 May 12 j 11:57	8° 8 48'14	2.49750 AU
	146 May 31 j 17:09	0°Ω		asc. node	151 May 12 j 11:57 151 May 19 j 05:53	13° 8 29'16	2.17/30 AU
	146 Jul 19 j 10:24	0° m)		morning rise	151 May 19 j 05:53 151 May 29 j 08:54	20° 8 26'54	
	146 Sep 02 j 22:20	0∘ ʊ رااا		morning 1150	151 Jun 12 j 11:07	0°II	
evening set	146 Sep 02 j 22.20 146 Sep 24 j 04:11	0 ≗ 14° £ 40'25			151 Jul 28 j 05:55	0ಂಣ ೧ π	
max. Earth dist.	146 Oct 08 j 20:51	25° £ 04'29	2.47254 AU		151 Jul 28 j 03:33 151 Sep 14 j 13:32	0° U 0 €3	
desc. node	146 Oct 08 j 20:31 146 Oct 14 j 20:09	23 2 204 29 29° 2 21'29	2.7/234 AU		151 Nov 06 j 01:03	0° m p	
acsc. Hout		29° ≥≥ 21°29			151 Nov 06 j 01:03 152 Jan 17 j 21:16	0 .⊽	
	146 Oct 15 j 17:31	O IIG		retrograde	152 Feb 06 j 18:51	0 ≗ 2° ₽ 12'16	
conjunction	146 Nov 15 j 21:25	22°M54'00	-0°20'10	retrograde	152 Feb 06 j 18:51 152 Feb 25 j 09:57	30°RMp	
conjunction	140 NOV 13 J 21:23	44 III.34 UU	-0 2017		134 100 43 J 09:37	אָוואָ טכּ	

opposition	152 Mar 15 j 06:23	23° m 54'55	3°17'58		157 Jul 17 j 15:53	$0^{\circ}\Omega$	
greatest brilliancy	152 Mar 16 j 01:35	23° m/36'45	-1.6m	max. Earth dist.	157 Jul 31 j 00:38	8° Ω 30'54	2.66975 AU
min. Earth dist.	152 Mar 21 j 18:13	21° m/ 27'35	0.59454 AU				
direct	152 Apr 25 j 01:06	14° m) 08'04		conjunction	157 Aug 08 j 00:16	13° Ω 37'07	1°08'54
desc. node	152 Jun 05 j 17:14	23° m/32'54		minimum elong	157 Aug 08 j 00:34	13° Ω 37'36	1°08'55
	152 Jun 20 j 04:54	0∘ <u>⊽</u>		Č	157 Sep 02 j 10:58	0° m	
	152 Aug 10 j 16:40	0° M ₊		morning rise	157 Sep 21 j 13:57	12° m 26'57	
	152 Sep 22 j 12:23	0° ∡ ¹			157 Oct 18 j 04:26	0∘ ত	
	152 Nov 01 j 05:15	0°ප			157 Dec 01 j 15:27	0°M₊	
	152 Dec 09 j 20:37	0° ≈			158 Jan 13 j 21:51	0° ∡	
	153 Jan 17 j 17:53	0° ∀		desc. node	158 Jan 26 j 14:07	8° ₹ 55'33	
	153 Feb 26 j 19:50	0° Υ			158 Feb 25 j 06:23	0° ප	
evening set	153 Mar 27 j 19:54	20° Y ′55'41			158 Apr 08 j 08:47	0° ≈	
asc. node	153 Apr 05 j 03:50	26° Y ′48'47			158 May 21 j 23:10	0° ∀	
	153 Apr 09 j 16:51	0° 8			158 Jul 13 j 16:25	0° Υ	
				retrograde	158 Aug 21 j 07:44	9° Y 22'51	
conjunction	153 May 22 j 02:23	29° 8 00'39		min. Earth dist.	158 Sep 17 j 20:04	4°Υ14'30	0.44459 AU
minimum elong	153 May 22 j 01:10	28° 8 58'36	0°27'22	opposition	158 Sep 25 j 22:16	1° Υ 30'17	
Tr. al. 11 a	153 May 23 j 13:51	0°II	2 (0710 AII	greatest brilliancy	158 Sep 25 j 01:09	1° Υ 48'13	-2.5m
max. Earth dist.	153 Jun 13 j 11:11	13° ∏ 50'49 0° ©	2.60718 AU	direct	158 Sep 30 j 11:20	30° ₹ 25° 升 06'18	
	153 Jul 08 j 06:46 153 Jul 11 j 09:49	0°99 2°9900'58		direct	158 Oct 28 j 00:48 158 Nov 26 j 01:34	29° H 59'02	
morning rise	153 Jul 11 j 09.49 153 Aug 24 j 10:44	2 300 38 0° Ω		asc. node	158 Nov 26 j 01:34 158 Nov 26 j 02:49	29 χ 3902 0° Υ	
	153 Aug 24 j 10.44 153 Oct 11 j 21:58	0° m y			159 Jan 30 j 01:55	0°8	
	153 Dec 01 j 11:33	0∘ ত الله			159 Mar 23 j 01:27	0°II	
	154 Jan 27 j 15:57	0° ™			159 May 11 j 18:10	0ಂಣ ೧.೫	
retrograde	154 Mar 29 j 14:10	16°M42'44			159 Jun 29 j 05:16	$0 {\circ} \Omega$	
desc. node	154 Apr 23 j 15:41	12°M52'41		evening set	159 Jul 30 j 09:13	19° Ω 45'52	
opposition	154 May 02 j 12:08	10°ML04'30	-0°29'11	evening sec	159 Aug 15 j 05:47	0° m)	
greatest brilliancy	154 May 02 j 15:53	10°M01'21		max. Earth dist.	159 Aug 24 j 18:43	6° Mp 13'17	2.62025 AU
min. Earth dist.	154 May 10 j 22:21	7°M15'45	0.47129 AU				
direct	154 Jun 08 j 15:58	1° M 56'59		conjunction	159 Sep 14 j 13:47	19° m 58'24	0°49'11
	154 Aug 22 j 07:57	0° ∡ ¹		minimum elong	159 Sep 14 j 15:03	20° m, 00'30	0°49'11
	154 Oct 05 j 23:21	0°ಕ			159 Sep 29 j 11:37	0∘ ⊽	
	154 Nov 15 j 23:33	0° ≈		morning rise	159 Oct 31 j 08:00	21° ≙ 55'06	
	154 Dec 26 j 12:32	0° ∀			159 Nov 11 j 19:53	0° M	
	155 Feb 05 j 23:06	0° Y		desc. node	159 Dec 14 j 12:49	23°M29'17	
asc. node	155 Feb 21 j 03:18	10° Ƴ 43′20			159 Dec 23 j 10:24	0° ∡ ¹	
	155 Mar 20 j 23:24	0°8			160 Feb 01 j 16:22	0°ರ	
	155 May 04 j 17:02	Π°			160 Mar 12 j 04:02	0° ≈	
evening set	155 May 14 j 23:29	6° Ⅱ 44'30			160 Apr 20 j 17:53	0° ∀	
	155 Jun 19 j 20:49	0 \circ \odot			160 May 31 j 18:12	0° Y	
					160 Jul 15 j 21:23	0°B	
conjunction	155 Jul 02 j 19:48	8°518'33			160 Sep 20 j 18:43	0°II	
minimum elong	155 Jul 02 j 18:44	8°516'51	1°01'43	retrograde	160 Oct 06 j 03:11	1° Ⅱ 33'34	
max. Earth dist.	155 Jul 08 j 21:27		2.66567 AU	asc. node	160 Oct 13 j 00:20	1° Ⅱ 13'04	
	155 Aug 05 j 20:09	0°N		: E 4 E 4	160 Oct 20 j 18:34	30°R8	0.57124 ATT
morning rise	155 Aug 17 j 13:47	7° Ω 27'50		min. Earth dist.	160 Nov 07 j 23:22	24° 8 16'43	0.57124 AU
	155 Sep 22 j 00:04	0° m) 0° 0		opposition	160 Nov 14 j 05:48	21° 8 49'23	1°26'03 -1.8m
	155 Nov 08 j 01:01 155 Dec 25 j 02:56	0°. 0° ⊽		greatest brilliancy direct	160 Nov 13 j 21:01 160 Dec 20 j 16:47	21° 8 58'00 13° 8 30'04	-1.0111
	156 Feb 11 j 01:32	0° ⊼ 1		direct	161 Feb 19 j 03:28	0° Ⅱ	
desc. node	156 Mar 10 j 14:37	0 ⊼ 17° ⊼ '04'51			161 Apr 18 j 10:08	0°ಅ	
dese. Hode	156 Apr 02 j 18:37	0°る			161 Jun 08 j 15:57	$0 {\circ} \Omega$	
retrograde	156 Jun 12 j 07:12	23° る 19'23			161 Jul 26 j 15:53	0° m	
opposition	156 Jul 12 j 13:05	18° る 20'17	-6°36'23	evening set	161 Sep 06 j 23:11	27° Mp 57'06	
greatest brilliancy	156 Jul 12 j 17:15	18° る 17'31		evening sec	161 Sep 09 j 23:28	0∘ ಹ	
min. Earth dist.	156 Jul 13 j 07:08	18° る 08'19		max. Earth dist.	161 Sep 22 j 23:53	8° ≏ 56'23	2.52138 AU
direct	156 Aug 11 j 14:51	13° る 17'34	-		161 Oct 22 j 20:18	0° M	-
	156 Oct 06 j 04:53	0° ≈			,		
	156 Nov 26 j 08:01	0° ∀		conjunction	161 Oct 26 j 19:50	2°M51'58	0°02'59
asc. node	157 Jan 08 j 02:52	27°) 43′28		minimum elong	161 Oct 26 j 20:00	2°M52'17	0°02'58
	157 Jan 11 j 14:12	0° Y		behind sun begin	161 Oct 25 j 22:24	2°M13'19	
	157 Feb 26 j 12:03	0° 8		behind sun end	161 Oct 27 j 17:37	3°M31'17	
	157 Apr 14 j 01:48	$\Pi^{\circ}0$		desc. node	161 Oct 31 j 11:50	6° M 14′38	
	157 May 31 j 07:19	0 \circ \odot			161 Dec 02 j 15:35	0° ∡ ¹	
evening set	157 Jun 22 j 22:44	14°919'34		morning rise	161 Dec 20 j 05:59	13° ∡ 19'15	

	162 Jan 10 j 23:06	8°0		min. Earth dist.	167 Mar 06 j 02:02	7° m 17'15	0.62972 AU
	162 Feb 18 j 12:22	0° ≈		mm. Lattii dist.	167 Mar 31 j 18:52	30°RΩ	0.02)12 AC
	162 Mar 29 j 03:23	0° ₩		direct	167 Apr 11 j 05:14	29° Ω 16'53	
	162 May 07 j 19:02	0° Υ		uncet	167 Apr 22 j 00:39	0° m)	
	162 Jun 18 j 14:46	0°8		desc. node	167 Jun 23 j 08:39	23° m) 10'33	
	162 Aug 03 j 11:10	0°II		desc. node	167 Jul 05 j 14:24	0∘ ⊽	
asc. node	162 Aug 30 j 23:56	15° Ⅱ 52'11			167 Aug 21 j 17:14	0° M	
	162 Sep 29 j 14:13	0°ಅ			167 Oct 02 j 10:15	0° ∡ ¹	
retrograde	162 Nov 12 j 04:10	10°503'44			167 Nov 10 j 15:48	0°ප	
min. Earth dist.	162 Dec 19 j 16:01	1°9510'52	0.65474 AU		167 Dec 18 j 23:51	0° ≈	
opposition	162 Dec 22 j 06:37	0°907'57	3°48'34		168 Jan 26 j 14:25	0° ₩	
greatest brilliancy	162 Dec 21 j 20:57	0°9517'40	-1.4m	evening set	168 Mar 05 j 01:26	29° ₩ 01'02	
,	162 Dec 22 j 14:32	30° Ŗ Ⅱ		Ü	168 Mar 06 j 09:20	$0^{\circ}\mathbf{\Upsilon}$	
direct	163 Jan 30 j 16:16	20° Ⅱ 44'49			168 Apr 16 j 23:32	0°8	
	163 Mar 15 j 07:25	0°ಅ		asc. node	168 Apr 21 j 20:49	3° 8 25'52	
	163 May 17 j 00:17	$0^{\circ}\Omega$			1 3		
	163 Jul 06 j 19:28	0° m)		conjunction	168 May 03 j 03:12	11° 8 16'12	0°06'55
	163 Aug 21 j 22:58	0∘ <u>v</u>		minimum elong	168 May 03 j 02:47	11° 8 15'29	0°06'55
desc. node	163 Sep 18 j 11:22	19° ഫ 01'05		behind sun begin	168 May 02 j 05:30	10° 8 38'43	
	163 Oct 03 j 20:29	0° M .		behind sun end	168 May 04 j 00:04	11° 8 52'14	
evening set	163 Oct 24 j 21:14	15°M24'20			168 May 30 j 15:08	0°II	
S	163 Nov 13 j 07:38	0° ∡ ¹		max. Earth dist.	168 Jun 02 j 04:34	1° II 43'00	2.56958 AU
max. Earth dist.	163 Nov 17 j 17:58	3° ₹ '22'20	2.39562 AU	morning rise	168 Jun 25 j 12:23	17° Ⅱ 09'56	
	163 Dec 22 j 04:03	0°ಕ		Č	168 Jul 15 j 06:32	0ංම	
	,				168 Aug 31 j 16:56	$0^{\circ}\Omega$	
conjunction	163 Dec 23 j 02:35	0° る 44'06	-0°54'06		168 Oct 20 j 04:14	0° m)	
minimum elong	163 Dec 23 j 00:03	0° る 39'08			168 Dec 12 j 21:50	0∘ <u>⊽</u>	
	164 Jan 29 j 06:54	0° ≈		retrograde	169 Mar 07 j 05:04	27° ≙ 51'14	
morning rise	164 Feb 29 j 08:30	24° ≈ 23'07		opposition	169 Apr 11 j 17:08		1°24'04
S	164 Mar 07 j 13:45	0° \		greatest brilliancy	169 Apr 12 j 04:43	20° ≙ 17'32	-2.0m
	164 Apr 15 j 21:34	0° Y		min. Earth dist.	169 Apr 19 j 20:22	17° ≙ 33'40	0.52335 AU
	164 May 27 j 01:51	0°B		desc. node	169 May 10 j 07:42	12° ♀ 11'52	
	164 Jul 09 j 21:32	0° I I		direct	169 May 20 j 19:06	11° ≏ 26'01	
asc. node	164 Jul 17 j 22:13	5° Ⅱ 15'23			169 Jul 19 j 06:49	0° M ₊	
	164 Aug 26 j 15:45	0° ©			169 Sep 05 j 12:53	0° ∡ ¹	
	164 Oct 22 j 15:26	$0^{\circ}\Omega$			169 Oct 17 j 01:09	0°⋜	
retrograde	164 Dec 15 j 16:24	13° Ω 51′07			169 Nov 25 j 16:33	0° ≈	
opposition	165 Jan 24 j 11:57	4° Ω 20'07	4°35'46		170 Jan 04 j 08:07	0° \	
greatest brilliancy	165 Jan 24 j 15:36	4° Ω 16'29	-1.3m		170 Feb 14 j 01:52	$0^{\circ}\mathbf{\Upsilon}$	
min. Earth dist.	165 Jan 25 j 18:16	3° Ω 49'58	0.67520 AU	asc. node	170 Mar 09 j 19:39	16° Ƴ 56'31	
	165 Feb 04 j 18:49	30° №			170 Mar 28 j 12:37	0° ႘	
direct	165 Mar 06 j 13:04	24°9524'21		evening set	170 Apr 27 j 13:54	20° 8 28'44	
	165 Apr 08 j 06:14	$0^{\circ}\Omega$		Ü	170 May 11 j 19:59	0°Ⅱ	
	165 Jun 12 j 07:42	0° m)			, ,		
	165 Jul 31 j 07:07	0∘ <u>v</u>		conjunction	170 Jun 17 j 10:16	23° Ⅱ 59'00	0°51'39
desc. node	165 Aug 05 j 10:03	ვ° ჲ 22'30		minimum elong	170 Jun 17 j 08:53	23° Ⅱ 56'45	0°51'37
	165 Sep 13 j 00:07	0° M ,		Č	170 Jun 26 j 17:44	0ංම	
	165 Oct 23 j 14:34	0° ∡ ¹		max. Earth dist.	170 Jun 29 j 11:05	1°9545'18	2.64910 AU
	165 Dec 01 j 08:59	8°0		morning rise	170 Aug 03 j 12:12	24°909'58	
evening set	165 Dec 27 j 01:54	20°る15'59		Č	170 Aug 12 j 16:43	$0^{\circ}\Omega$	
S	166 Jan 08 j 09:34	0° ≈			170 Sep 29 j 05:03	0° m)	
	166 Feb 15 j 16:03	0° ₩			170 Nov 16 j 04:45	0∘ <u>⊽</u>	
	,				171 Jan 04 j 09:14	0°M₊	
conjunction	166 Mar 04 j 11:41	12° ¥ 56'52	-0°51'57		171 Feb 26 j 17:54	0° ∡ ¹	
minimum elong	166 Mar 04 j 14:39	13°) €02'32		desc. node	171 Mar 28 j 06:46	13° ∡ ¹42'34	
	166 Mar 27 j 01:23	0° Y		retrograde	171 May 12 j 03:17	23° ₹ 759'40	
max. Earth dist.	166 Apr 23 j 11:35	20° Y ′08′29	2.44412 AU	opposition	171 Jun 12 j 02:12	18° ∡ ¹40'06	-4°31'26
	166 May 07 j 06:02	0°8	-	greatest brilliancy	171 Jun 12 j 22:34	18° ∡ ¹25'34	-2.8m
morning rise	166 May 08 j 09:54	0° 8 49'25		min. Earth dist.	171 Jun 17 j 18:05	17° ∡ 103'16	0.39820 AU
asc. node	166 Jun 04 j 21:03	19° 8 57'22		direct	171 Jul 14 j 20:35	12° ∡ ³36'31	
	166 Jun 19 j 16:29	0°Ⅱ			171 Sep 08 j 11:48	0°る	
	166 Aug 04 j 16:21	0°®			171 Oct 27 j 07:07	0° ≈	
	166 Sep 22 j 22:56	$0 {\circ} \Omega$			171 Dec 10 j 02:56	0° ₩	
	166 Nov 18 j 09:55	0° m)			171 Dec 10 j 02:30 172 Jan 22 j 13:29	0° Υ	
retrograde	167 Jan 21 j 14:09	17° m 59'04		asc. node	172 Jan 25 j 18:17	2°Υ11'25	
opposition	167 Feb 28 j 23:42	9° m) 15'24	3°59'45		172 Mar 06 j 22:31	0° 8	
greatest brilliancy	167 Mar 01 j 16:55	8° M) 58'46			172 Mar 00 j 22:31 172 Apr 21 j 14:20	0°II	
or carrost or mining	10, 1.1m 01 J 10.00	S 11/20 TO			-,2.1pi 21 j 17.20	· -	

Planetary Phenomena of Mars	from 100 through 602 (UT), Astrodienst AG 18-Feb-2025 14:22,	page 8
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evening set	172 Jun 07 j 22:53	0°524'44			177 Apr 06 j 09:01	0° ∀	
	172 Jun 07 j 07:23	0° ©			177 May 16 j 07:44	0°Υ	
max. Earth dist.	172 Jul 22 j 01:01	28° © 28'16	2.67459 AU		177 Jun 27 j 18:56	0°B	
					177 Aug 14 j 20:53	0°II	
conjunction	172 Jul 24 j 17:53	0°Ω11'30		asc. node	177 Sep 16 j 14:44	16° Ⅱ 11'02	
minimum elong	172 Jul 24 j 17:38	0° Ω 11'06	1°09'18	retrograde	177 Oct 29 j 09:40	26° Ⅱ 11'57	
	172 Jul 24 j 10:40	0°Ω		min. Earth dist.	177 Dec 04 j 04:51	17° Ⅱ 52'48	0.62914 AU
morning rise	172 Sep 07 j 09:54	28° Ω 46'36		opposition	177 Dec 08 j 07:13	16° Ⅱ 14'16	3°06'53
	172 Sep 09 j 07:27	0° m)		greatest brilliancy	177 Dec 07 j 19:05	16° Ⅱ 26'26	-1.5m
	172 Oct 25 j 10:10	0∘ 亚		direct	178 Jan 15 j 16:53	7° I 11'39	
	172 Dec 09 j 15:11 173 Jan 23 j 02:12	0° M 0° ∡ 1			178 Mar 31 j 10:30	$0 {\circ} {\mathfrak C}$	
desc. node	173 Jan 23 J 02.12 173 Feb 12 j 05:47	0 x . 13° ∡ 741'58			178 May 26 j 03:04 178 Jul 14 j 11:47	0° m p	
desc. Hode	173 Mar 08 j 05:18	13 メ ・41 38			178 Aug 29 j 05:17	0∘ ⊽	
	173 Apr 22 j 06:50	0°≈		evening set	178 Aug 29 J 03:17 178 Oct 04 j 16:19	0 == 25° £ 24'46	
	173 Jun 13 j 03:03	0° ∺		desc. node	178 Oct 05 j 03:20	25° - 244'29	
retrograde	173 Jul 28 j 13:57	12° ∺ 19'57		dese. Hode	178 Oct 11 j 01:38	0° ™	
min. Earth dist.	173 Aug 24 j 06:23		0.40023 AU	max. Earth dist.	178 Oct 20 j 08:23	6°M43'55	2.44447 AU
opposition	173 Aug 30 j 16:05	5°) 52'04		man. Burur uist.	178 Nov 20 j 15:27	0° ∡ ¹	2
greatest brilliancy	173 Aug 29 j 13:49	6° ₩ 11'56			1701107 20 3 10.27		
direct	173 Sep 30 j 00:15	0° ¥ 23'15		conjunction	178 Nov 28 j 09:50	5° ∡ ¹53'51	-0°33'41
asc. node	173 Dec 12 j 17:53	25° ¥ 15′22		minimum elong	178 Nov 28 j 07:55	5° ₹ '50'11	
	173 Dec 21 j 12:11	0° Υ		Ü	178 Dec 29 j 15:35	0°ರ	
	174 Feb 10 j 19:47	$0^{\circ}B$		morning rise	179 Jan 30 j 07:34	24° る 49'15	
	174 Mar 31 j 19:22	Π $^{\circ}0$		•	179 Feb 05 j 21:41	0° ≈	
	174 May 19 j 06:26	0°99			179 Mar 16 j 06:38	0° ∀	
	174 Jul 06 j 04:34	$0^{\circ}\Omega$			179 Apr 24 j 15:41	0 ° Υ	
evening set	174 Jul 15 j 19:18	6° Ω 05′13			179 Jun 04 j 22:30	$_{0\circ}$ 8	
max. Earth dist.	174 Aug 14 j 18:34	25° Ω 16′22	2.64602 AU		179 Jul 19 j 04:21	$\Pi^{\circ}0$	
	174 Aug 22 j 01:40	0° m y		asc. node	179 Aug 04 j 14:51	10° Ⅱ 27'35	
					179 Sep 06 j 14:33	0°€	
conjunction	174 Aug 30 j 14:13	5° m 33'08	1°00'04		179 Nov 19 j 15:03	$0^{\circ}\Omega$	
minimum elong	174 Aug 30 j 15:14	5° m 34'49	1°00'04	retrograde	179 Dec 03 j 06:35	1° Ω 06'58	
	174 Oct 06 j 10:49	0∘ ⊽			179 Dec 16 j 05:45	30° ₹ 5	
morning rise	174 Oct 15 j 00:34	5° ≙ 47'49		opposition	180 Jan 12 j 07:45	21° © 23'22	4°27'09
	174 Nov 19 j 03:26	0°M		greatest brilliancy	180 Jan 12 j 05:28	21°525'39	-1.3m
desc. node	174 Dec 31 j 05:47	29°M59'14		min. Earth dist.	180 Jan 12 j 01:19	21°529'49	0.67496 AU
	174 Dec 31 j 06:13	0° ∡ ¹		direct	180 Feb 21 j 21:06	11° 5 37'10	
	175 Feb 10 j 02:34	5°0			180 Apr 27 j 02:56	0° N	
	175 Mar 22 j 06:02	0° ₩			180 Jun 21 j 21:47	0° m)	
	175 May 01 j 15:27	0° Υ		desc. node	180 Aug 08 j 09:10	0° ჲ 9° ჲ 14'32	
	175 Jun 13 j 03:30 175 Aug 02 j 15:13	%8 0 1		desc. node	180 Aug 22 j 01:54 180 Sep 20 j 15:47	9 == 1432 0° M	
retrograde	175 Aug 02 j 15:15 175 Sep 20 j 16:05	13° 8 47'23			180 Sep 20 j 13.47 180 Oct 31 j 03:48	0° ⊼ 1	
min. Earth dist.	175 Oct 21 j 09:12		0.52435 AU	evening set	180 Nov 29 j 23:48	23° х 700'26	
opposition	175 Oct 28 j 19:48	4° 8 29'02		evening set	180 Dec 08 j 22:11	0°る。	
greatest brilliancy	175 Feb 04 j 12:10	25° х 50'36			181 Jan 15 j 22:54	0°≈	
asc. node	175 Oct 30 j 16:18	3° 8 47'05			j ==.v !		
	175 Nov 10 j 21:24	30° Ŗ ♈		conjunction	181 Feb 04 j 00:29	15° ≈ 01'21	-1°04'20
direct	175 Dec 02 j 18:19	26° Ƴ 47'17		minimum elong	181 Feb 04 j 01:35	15° ≈ 03'30	
	175 Dec 26 j 07:33	0°8		· ·	181 Feb 23 j 04:46	0° ₩	
	176 Mar 05 j 01:55	$\Pi^{\circ}0$		max. Earth dist.	181 Mar 22 j 18:44	21°) €09'46	2.39263 AU
	176 Apr 27 j 08:43	0ං ව			181 Apr 03 j 12:30	0° Y	
	176 Jun 16 j 04:47	$0^{\circ}\Omega$		morning rise	181 Apr 14 j 01:54	7° Y 50'51	
	176 Aug 02 j 17:14	0° m)			181 May 14 j 15:26	0° 8	
evening set	176 Aug 21 j 23:06	12° m 34'27		asc. node	181 Jun 21 j 14:02	26° 8 17'00	
max. Earth dist.	176 Sep 10 j 01:39	25° m 19'37	2.56563 AU		181 Jun 27 j 02:42	$\Pi^{\circ}0$	
	176 Sep 16 j 23:12	0∘ ⊽			181 Aug 12 j 11:58	0ංම	
					181 Oct 02 j 08:33	$0^{\circ}\Omega$	
conjunction	176 Oct 08 j 19:49	15° ≏ 03'26			181 Dec 08 j 10:46	0° m)	
minimum elong	176 Oct 08 j 20:46	15° ≙ 05'06	0°23'50	retrograde	182 Jan 06 j 15:10	4° m 33'30	
	176 Oct 29 j 23:39	0°M			182 Feb 02 j 09:38	30°R Ω	400
desc. node	176 Nov 17 j 04:53	13°ML08'58		opposition	182 Feb 14 j 17:26	25° Ω 28'17	
morning rise	176 Nov 28 j 07:41	21°M17'59		greatest brilliancy	182 Feb 15 j 06:08	25° Ω 15'50	
	176 Dec 10 j 01:23	0° ∡ 7		min. Earth dist.	182 Feb 18 j 07:59	24° Ω 03'24	0.65531 AU
	177 Jan 18 j 16:08	5°00		direct	182 May 22 i 11:04	15° Ω 26'19	
	177 Feb 26 j 12:02	0° ≈			182 May 22 j 11:04	0° m)	

desc. node	182 Jul 10 j 01:08	26° Mp 04'13		minimum elong	187 Jul 11 j 06:08	16° © 38'33	1°05'40
	182 Jul 16 j 10:58	0∘ ত		max. Earth dist.	187 Jul 14 j 04:47	18° © 31'08	2.67122 AU
	182 Aug 30 j 15:32	0°M			187 Aug 01 j 05:19	$0^{\circ}\Omega$	
	182 Oct 10 j 18:01	0°⊀		morning rise	187 Aug 25 j 12:16	15° Ω 28'25	
	182 Nov 18 j 17:05	0°る			187 Sep 17 j 06:10	0° m	
	182 Dec 26 j 20:33	0° ≈			187 Nov 02 j 22:03	0∘ ত	
	183 Feb 03 j 06:31	0°) €			187 Dec 19 j 04:52	0° M.	
evening set	183 Feb 08 j 15:40	4°){ 08'44			188 Feb 03 j 12:56	0° ∡ ¹	
	183 Mar 14 j 20:16	$_0$ ° γ		desc. node	188 Feb 29 j 22:52	16° ₹ 50'33	
	,				188 Mar 22 j 03:17	0°ರ	
conjunction	183 Apr 12 j 20:01	21° Υ 10'25	-0°16'30		188 May 15 j 23:09	0° ≈	
minimum elong	183 Apr 12 j 21:07	21° Υ 10'25		retrograde	188 Jun 30 j 07:21	11° ≈ 30'55	
minimum clong	183 Apr 25 j 05:17	0°8	0 10 30	min. Earth dist.	188 Jul 28 j 16:20		0.37563 AU
1							
asc. node	183 May 09 j 12:05	10° 8 01'05	2 52 40 5 4 7 7	opposition	188 Jul 30 j 22:14	6°≈16'52	
max. Earth dist.	183 May 21 j 06:17		2.52495 AU	greatest brilliancy	188 Jul 30 j 11:52	6°≈23'49	-2.9m
	183 Jun 07 j 17:17	0°II		direct	188 Aug 29 j 11:39	1°≈21'23	
morning rise	183 Jun 09 j 03:16	0° Ⅱ 57'06			188 Nov 16 j 01:12	0° ∀	
	183 Jul 23 j 09:23	0		asc. node	188 Dec 29 j 08:30	26° 升 10′12	
	183 Sep 09 j 06:40	$0 {\circ} \Omega$			189 Jan 04 j 10:49	0 ° $\mathbf{\Upsilon}$	
	183 Oct 30 j 07:39	0° m p			189 Feb 20 j 15:41	9° 8	
	183 Dec 29 j 21:08	0∘ 亚			189 Apr 08 j 21:39	$\Pi^{\circ}0$	
retrograde	184 Feb 16 j 20:22	11° ≏ 21'31			189 May 26 j 12:03	0°ಅ	
opposition	184 Mar 24 j 16:35	3° ჲ 21'26	2°43'40	evening set	189 Jul 01 j 08:21	22° © 35'57	
greatest brilliancy	184 Mar 25 j 10:48	3° ഫ 04'27	-1.8m	3	189 Jul 13 j 00:45	$0^{\circ}\Omega$	
min. Earth dist.	184 Mar 31 j 20:16	0° ჲ 41'39		max. Earth dist.	189 Aug 05 j 08:12	_	2.66360 AU
min. Darm dist.	184 Apr 02 j 18:21	30°R.Mb	0.57110110	max. Earth dist.	10) 11ag 03 j 00.12	11 003120	2.00300710
direct				agniumation	100 Aug 16 : 04:10	21° Ω 48'51	1°06'49
	184 May 03 j 23:50	23° Mp 46'23		conjunction	189 Aug 16 j 04:19		
desc. node	184 May 26 j 23:34	26° m 58'18		minimum elong	189 Aug 16 j 04:56	21° Ω 49'49	1°06'48
	184 Jun 05 j 20:02	0° ∵			189 Aug 28 j 20:24	0° m	
	184 Aug 03 j 09:50	0°M		morning rise	189 Sep 29 j 21:24	20° m 59'08	
	184 Sep 16 j 11:06	0°⊀			189 Oct 13 j 10:44	0₀ ಹ	
	184 Oct 26 j 15:38	0°₹			189 Nov 26 j 14:48	0° M	
	184 Dec 04 j 13:35	0° ≈			190 Jan 08 j 10:21	0°⊀	
	185 Jan 12 j 15:49	0° ∀		desc. node	190 Jan 16 j 21:37	6° ₰ 02'06	
	185 Feb 21 j 21:47	0 ° $\mathbf{\gamma}$			190 Feb 19 j 03:48	0°₹	
asc. node	185 Mar 26 j 11:47	23° Y 23'12			190 Apr 01 j 08:49	0° ≈	
	185 Apr 04 j 22:07	$B_{\circ 0}$			190 May 13 j 07:35	0° ∀	
evening set	185 Apr 08 j 12:57	2° 8 31'08			190 Jun 28 j 13:50	$_{0}$ $^{\circ}$ Υ	
e vennig see	185 May 18 j 21:27	0°Ⅱ		retrograde	190 Sep 02 j 02:59	23° Υ 07'28	
	103 May 10 J 21.27	о д		min. Earth dist.	190 Sep 30 j 15:21		0.47258 AU
conjunction	185 Jun 01 j 00:50	8° ∏ 43'42	0°37'26	opposition	190 Oct 08 j 18:51	14° Υ 37'20	
•					-	14 γ 37 20 14° γ 49'25	-2 02 33 -2.3m
minimum elong	185 May 31 j 23:25	8° Ⅱ 41'22		greatest brilliancy	190 Oct 08 j 05:18		-2.3m
max. Earth dist.	185 Jun 19 j 12:32	20° Ⅲ 51′23	2.62431 AU	direct	190 Nov 10 j 23:29	7° Y 43'18	
	185 Jul 03 j 14:56	0°€		asc. node	190 Nov 16 j 08:05	7° Y 54'31	
morning rise	185 Jul 20 j 00:11	10°ഇ31'51			191 Jan 20 j 19:37	9° 8	
	185 Aug 19 j 15:56	$0 {\circ} \Omega$			191 Mar 16 j 20:00	Π $\circ 0$	
	185 Oct 06 j 17:01	0° m			191 May 06 j 12:44	0°€	
	185 Nov 25 j 02:27	0∘ ত			191 Jun 24 j 10:07	$0^{\circ}\Omega$	
	186 Jan 17 j 01:59	0° M		evening set	191 Aug 07 j 20:07	28° Ω 11'57	
retrograde	186 Apr 13 j 00:49	29°M18'11			191 Aug 10 j 14:50	0° m	
desc. node	186 Apr 13 j 22:51	29°M17'53		max. Earth dist.	191 Aug 30 j 19:27	-•	2.60283 AU
opposition	186 May 15 j 22:09	23°M08'51	-1°50'41				
greatest brilliancy	186 May 16 j 10:58	22°M58'39		conjunction	191 Sep 23 j 10:58	29° m 02'27	0°41'01
min. Earth dist.		20°M35'28		·		29° Mp 04'34	0°41'01
	186 May 24 j 00:03		0.44240 AU	minimum elong	191 Sep 23 j 12:13		0 41 01
direct	186 Jun 20 j 16:05	15°M42'26			191 Sep 24 j 20:57	0∘ 亚	
	186 Aug 09 j 09:39	0° ∡ 7			191 Nov 07 j 02:31	0°M	
	186 Sep 27 j 18:57	0°る		morning rise	191 Nov 10 j 06:26	2°M14'57	
	186 Nov 09 j 05:44	0° ≈		desc. node	191 Dec 04 j 20:24	19°M58'08	
	186 Dec 20 j 13:35	0° ∀			191 Dec 18 j 12:24	0°⊀	
	187 Jan 31 j 12:49	$0^{\circ}\Upsilon$			192 Jan 27 j 12:37	℃ 0	
asc. node	187 Feb 11 j 10:31	7° Ƴ 38'42			192 Mar 06 j 17:52	0° ≈	
	187 Mar 15 j 22:06	8° 0			192 Apr 15 j 00:21	0°) €	
	187 Apr 29 j 21:57	$\Pi^{\circ}0$			192 May 25 j 12:12	$0^{\circ}\mathbf{\Upsilon}$	
evening set	187 May 24 j 07:39	15° Ⅲ 53'36			192 Jul 08 j 05:55	0°8	
<i>3</i>	187 Jun 15 j 05:21	0°9			192 Aug 31 j 01:45	0°II	
	5. Jan 10 j 00.21			asc. node	192 Oct 03 j 07:47	10° Ⅱ 19'28	
conjunction	187 Jul 11 j 06:54	16° © 39'47	1°05'40	retrograde	192 Oct 03 j 07.47 192 Oct 14 j 21:18	10 H 1928	
conjunction	10/Jul 11 J 00.34	10 20394/	1 05 40	renograde	192 Oct 14 J 21.18	11 11 12 40	

min. Earth dist.	192 Nov 17 j 19:55		0.59410 AU		197 Nov 26 j 11:55	0°ಕ	
opposition	192 Nov 23 j 08:29	1° Ⅱ 20′51	2°08'38		198 Jan 03 j 13:14	0° ≈	
greatest brilliancy	192 Nov 22 j 21:06	1° Ⅱ 32'09	-1.7m	evening set	198 Jan 12 j 00:37	6° ≈ 40'47	
	192 Nov 26 j 19:01	30° ₹8			198 Feb 10 j 20:32	0° ∀	
direct	192 Dec 30 j 12:59	22° 8 44'25					
	193 Feb 06 j 02:54	Π $\circ 0$		conjunction	198 Mar 19 j 13:45	27° ¥ 58'36	
	193 Apr 11 j 22:17	0		minimum elong	198 Mar 19 j 16:27	28°) €03'39	0°40'12
	193 Jun 03 j 09:43	$0^{\circ}\Omega$			198 Mar 22 j 06:47	0 ° $\mathbf{\gamma}$	
	193 Jul 21 j 20:23	0° m			198 May 02 j 11:55	9° 8	
	193 Sep 05 j 07:50	0∘ ⊽		max. Earth dist.	198 May 05 j 02:53	1° 8 51'32	2.47404 AU
evening set	193 Sep 16 j 13:52	7° ≙ 42'35		morning rise	198 May 20 j 15:37	12° 8 44'28	
max. Earth dist.	193 Oct 01 j 15:30	18° ≏ 12'50	2.49499 AU	asc. node	198 May 26 j 04:40	16° 8 34'35	
	193 Oct 18 j 04:57	0°M₊			198 Jun 14 j 21:41	Π $\circ 0$	
desc. node	193 Oct 21 j 19:26	2°M35'49			198 Jul 30 j 16:46	0 \circ	
					198 Sep 17 j 07:23	$0 {\circ} \Omega$	
conjunction	193 Nov 06 j 21:20	14°M19'21	-0°10'14		198 Nov 10 j 00:42	0° m	
minimum elong	193 Nov 06 j 20:47	14°M18'21	0°10'14	retrograde	199 Jan 30 j 15:37	26° M 25'43	
behind sun begin	193 Nov 06 j 02:48	13°M45'16		opposition	199 Mar 09 j 13:25	17° m ∕55'47	3°37'35
behind sun end	193 Nov 07 j 14:46	14°M51'27		greatest brilliancy	199 Mar 10 j 08:02	17° ™ 37'59	-1.6m
	193 Nov 27 j 22:35	0° ∡ ¹		min. Earth dist.	199 Mar 15 j 10:07	15° m 41'14	0.61147 AU
morning rise	194 Jan 03 j 01:01	27° ∡ ³35'43		direct	199 Apr 19 j 13:38	8° Mp 02′24	
	194 Jan 06 j 03:29	0°ರ		desc. node	199 Jun 13 j 16:45	23°Mp09'30	
	194 Feb 13 j 13:44	0° ≈			199 Jun 27 j 07:24	0∘ ত	
	194 Mar 24 j 01:52	0° ∀			199 Aug 15 j 14:12	0° M $_{\circ}$	
	194 May 02 j 13:55	0 ° Υ			199 Sep 26 j 21:58	0° ∡ ¹	
	194 Jun 13 j 02:36	8° 0			199 Nov 05 j 09:50	ರ°0	
	194 Jul 28 j 03:20	Π $^{\circ}0$			199 Dec 13 j 21:25	0° ≈	
asc. node	194 Aug 21 j 06:15	14° Ⅱ 36′09			200 Jan 21 j 14:53	0° ∀	
	194 Sep 18 j 22:28	0 \circ \odot			200 Mar 01 j 12:33	0 ° Υ	
retrograde	194 Nov 19 j 22:28	18° © 09'34		evening set	200 Mar 18 j 07:43	12° Ƴ 15'35	
min. Earth dist.	194 Dec 28 j 06:31	8° © 59'59	0.66469 AU	asc. node	200 Apr 12 j 02:34	29° Ƴ 55′28	
opposition	194 Dec 30 j 01:24	8° © 16'53	4°06'33		200 Apr 12 j 05:09	0°8	
greatest brilliancy	194 Dec 29 j 17:57	8° © 24'22	-1.3m				
	195 Jan 24 j 23:30	30° Ŗ Ⅱ		conjunction	200 May 14 j 04:48	22° 8 04'49	0°19'10
direct	195 Feb 07 j 21:56	28° Ⅱ 44'29		minimum elong	200 May 14 j 03:50	22° 8 03'11	0°19'10
	195 Feb 22 j 18:14	0 \circ \odot			200 May 25 j 22:32	Π $^{\circ}0$	
	195 May 10 j 07:23	$0^{\circ}\Omega$		max. Earth dist.	200 Jun 08 j 21:10	9° Ⅱ 17'37	2.59147 AU
	195 Jul 01 j 11:17	O° Mp		morning rise	200 Jul 04 j 18:13	26° Ⅱ 14'43	
	195 Aug 17 j 01:15	0∘ ত			200 Jul 10 j 13:32	0 \circ \odot	
desc. node	195 Sep 08 j 17:55	15° ≏ 33'30			200 Aug 26 j 19:07	$0^{\circ}\Omega$	
	195 Sep 29 j 02:16	0° M,			200 Oct 14 j 14:55	O° My	
evening set	195 Nov 06 j 11:29	28° M $_23'52$			200 Dec 05 j 06:23	0∘ ত	
	195 Nov 08 j 14:12	0° ∡ ¹			201 Feb 05 j 20:08	0° M $_{\circ}$	
	195 Dec 17 j 10:11	0°ರ		retrograde	201 Mar 19 j 09:20	8°M37'54	
max. Earth dist.	195 Dec 18 j 15:48	0° ಕ 58'01	2.37606 AU	opposition	201 Apr 23 j 01:44	1°M38'13	0°23'43
				greatest brilliancy	201 Apr 23 j 05:21	1°M35'06	-2.2m
conjunction	196 Jan 07 j 08:40	16° る 27'59	-1°01'50		201 Apr 27 j 18:45	30° ₹ Ω	
minimum elong	196 Jan 07 j 06:51	16° る 24'24	1°01'50	desc. node	201 Apr 30 j 15:16	29° ≙ 01'16	
	196 Jan 24 j 12:07	0° ≈		min. Earth dist.	201 May 01 j 12:10	28° ≙ 43'41	0.49494 AU
	196 Mar 02 j 18:07	0° ℋ		direct	201 May 31 j 04:38	23° ჲ 03′28	
morning rise	196 Mar 17 j 03:46	11°) (07′26			201 Jul 03 j 23:45	0°M	
	196 Apr 11 j 00:59	0 ° $\mathbf{\Upsilon}$			201 Aug 28 j 12:46	0° ∡ ¹	
	196 May 22 j 03:17	9° 8			201 Oct 10 j 12:02	0°ප	
	196 Jul 04 j 17:52	Π $^{\circ}0$			201 Nov 19 j 19:06	0° ≈	
asc. node	196 Jul 08 j 05:28	2° Ⅱ 18'37			201 Dec 29 j 20:38	0° ℋ	
	196 Aug 20 j 19:24	0 \circ			202 Feb 08 j 21:57	0 ° $\mathbf{\gamma}$	
	196 Oct 13 j 13:16	0 $^{\circ}$ Ω		asc. node	202 Feb 28 j 01:59	13° Y 37'40	
retrograde	196 Dec 23 j 13:06	21° Ω 37'15			202 Mar 23 j 14:26	9° 8	
opposition	197 Feb 01 j 03:21	12° Ω 14′25		evening set	202 May 07 j 16:49	0° Ⅱ 24'13	
greatest brilliancy	197 Feb 01 j 10:21	12° Ω 07′29			202 May 07 j 02:11	$\Pi^{\circ}0$	
min. Earth dist.	197 Feb 03 j 05:33	11° Ω 24'40	0.67083 AU		202 Jun 22 j 02:15	0 \circ \odot	
direct	197 Mar 14 j 08:30	2° Ω 15′06					
	197 Jun 05 j 05:58	0° m		conjunction	202 Jun 26 j 08:35	2° 5 44'36	
	197 Jul 25 j 17:42	0∘ ⊽		minimum elong	202 Jun 26 j 07:22	2° 5 42'38	0°58'00
desc. node	197 Jul 26 j 16:47	0° ≏ 37'13		max. Earth dist.	202 Jul 05 j 00:19		2.65937 AU
	197 Sep 07 j 21:29	0°M₊			202 Aug 08 j 00:50	$0^{\circ}\Omega$	
	197 Oct 18 j 15:55	0°⊀		morning rise	202 Aug 11 j 14:51	2° Ω 16′38	

	202 Sep 24 j 08:08	0° т р		direct	207 Dec 13 j 18:51	7° 8 00'11	
	202 Nov 10 j 18:06	0∘ 亚			208 Feb 25 j 18:30	Π $^{\circ}0$	
	202 Dec 28 j 15:04	0° M .			208 Apr 21 j 13:06	0 \circ	
	203 Feb 16 j 08:16	0° ∡ ¹			208 Jun 11 j 03:58	$0 ^{\circ} \Omega$	
desc. node	203 Mar 18 j 14:01	16° ∡ ¹45'39			208 Jul 28 j 23:47	0° m y	
	203 Apr 15 j 14:12	0°ರ		evening set	208 Aug 30 j 23:35	21° Mp 40'20	
retrograde	203 May 29 j 23:22	10° る 25'21			208 Sep 12 j 07:44	0∘ 亚	
opposition	203 Jun 29 j 08:51	5° る 23'21	-5°53'14	max. Earth dist.	208 Sep 17 j 07:33	3° £ 24'15	2.54186 AU
greatest brilliancy	203 Jun 29 j 23:12	5°る13'37	-2.9m				
min. Earth dist.	203 Jul 02 i 12:40	4°₹31'59	0.38212 AU	conjunction	208 Oct 18 j 20:30	25° £ 23'55	0°12'12
	203 Jul 29 j 13:04	30°R <i>⊀</i> 7		minimum elong	208 Oct 18 j 21:03	25° ≏ 24'54	
direct	203 Jul 30 j 10:57	29° ₹ '59'39		behind sun begin	208 Oct 18 j 06:47	24° £ 59'35	
	203 Jul 31 j 08:50	0° ට		behind sun end	208 Oct 19 j 11:18	25° ≏ 50'14	
	203 Oct 16 j 22:10	0° ≈		V VW V W VW	208 Oct 25 j 07:17	0° M	
	203 Dec 02 j 16:11	0° ₩		desc. node	208 Nov 07 j 11:13	9°M29'54	
asc. node	204 Jan 16 j 01:36	29°) 45′43		dese. Hode	208 Dec 05 j 06:14	0° ⊼¹	
asc. node	204 Jan 16 j 10:07	2°γ		morning rise	208 Dec 10 j 08:31	3° ∡ 149'08	
	•	%8 0 1		morning risc		0°る	
	204 Mar 01 j 12:33	0°II			209 Jan 13 j 17:34	0°≈	
	204 Apr 16 j 14:58				209 Feb 21 j 09:48		
	204 Jun 02 j 14:01	0°95			209 Apr 01 j 02:58	0° ∀	
evening set	204 Jun 16 j 14:39	8°954'17			209 May 10 j 20:31	0° Υ	
	204 Jul 19 j 19:58	0 ° Ω			209 Jun 21 j 20:05	0° 8	
max. Earth dist.	204 Jul 27 j 08:04	4° Ω 46'40	2.67297 AU		209 Aug 07 j 07:47	0°II	
				asc. node	209 Sep 06 j 22:47	16° Ⅱ 50′26	
conjunction	204 Aug 01 j 22:36	8° Ω 21'06	1°09'33		209 Oct 08 j 23:33	0 \circ \odot	
minimum elong	204 Aug 01 j 22:41	8° Ω 21'15	1°09'33	retrograde	209 Nov 06 j 08:45	4° 5 41'50	
	204 Sep 04 j 16:08	0° m y			209 Dec 02 j 15:39	30°RⅡ	
morning rise	204 Sep 15 j 11:37	7° m 00'13		min. Earth dist.	209 Dec 13 j 02:40	26° Ⅱ 03'46	0.64445 AU
	204 Oct 20 j 13:59	0∘ ⊽		opposition	209 Dec 16 j 09:44	24° Ⅱ 44'22	3°33'04
	204 Dec 04 j 09:07	0° M .		greatest brilliancy	209 Dec 15 j 22:33	24° Ⅱ 55'36	-1.4m
	205 Jan 17 j 03:28	0° ∡ ¹		direct	210 Jan 24 j 09:10	15° Ⅱ 29'59	
desc. node	205 Feb 02 j 13:52	11° ∡ ¹24'47			210 Mar 22 j 02:17	0° ©	
	205 Mar 01 j 04:28	ರ°0			210 May 20 j 05:29	$0^{\circ}\Omega$	
	205 Apr 13 j 06:55	0° ≈			210 Jul 09 j 10:23	0° m)	
	205 May 28 j 23:27	0° ∀			210 Aug 24 j 10:49	0∘ ⊽	
retrograde	205 Aug 11 j 13:13	28° ¥ 35′20		desc. node	210 Sep 25 j 10:54	22° ≙ 11'05	
min. Earth dist.	205 Sep 07 j 10:07	23° ¥ 46'55	0.42315 AU		210 Oct 06 j 09:06	0° M	
greatest brilliancy	205 Sep 14 j 00:38	21° ¥ 39′28		evening set	210 Oct 15 j 19:51	6°M51'18	
opposition	205 Sep 15 j 01:49	21°) 19'07		max. Earth dist.	210 Nov 03 j 06:46		2.41646 AU
direct	205 Oct 16 j 07:51	15° ¥ 20′26	4 20 40	max. Earth dist.	210 Nov 15 j 22:18	0° × 7	2.41040710
asc. node	205 Dec 03 j 00:20	27° H 14'39			2101101 15 j 22.10	V /	
asc. node	205 Dec 09 j 05:44	0° Υ		conjunction	210 Dec 11 j 22:52	19° ∡ 57'02	0046'04
	206 Feb 03 j 16:14	0° 8		minimum elong	210 Dec 11 j 20:24	19° × 57'02	
	-	0°II		minimum clong		19 メ ・32 13	0 40 03
	206 Mar 26 j 03:31	0°9			210 Dec 24 j 20:54	0°≈	
	206 May 14 j 06:00				211 Feb 01 j 01:07		
	206 Jul 01 j 11:17	0°N		morning rise	211 Feb 16 j 02:18	11°≈50'15	
evening set	206 Jul 24 j 03:20	14° Ω 21'22			211 Mar 11 j 08:21	0° ℋ 0° Ƴ	
To all the	206 Aug 17 j 10:58	0° m)	2 (2201 411		211 Apr 19 j 15:47		
max. Earth dist.	206 Aug 20 j 12:09	1°110/58'55	2.63281 AU		211 May 30 j 19:31	0° 8	
					211 Jul 13 j 17:14	0°II	
conjunction	206 Sep 08 j 02:10	14° m) 10'02	0°54'14	asc. node	211 Jul 25 j 21:08	7° Ⅱ 53'38	
minimum elong	206 Sep 08 j 03:22	14° m 12'00	0°54'13		211 Aug 30 j 22:50	0ංම	
	206 Oct 01 j 19:07	0∘ ⊽			211 Oct 30 j 06:34	0°N	
morning rise	206 Oct 24 j 03:54	15° ≏ 15'29		retrograde	211 Dec 10 j 23:11	8° Ω 53′28	
	206 Nov 14 j 08:01	0° M .			212 Jan 18 j 01:34	30° ₹ ∽	
desc. node	206 Dec 21 j 12:45	26°M36'27		opposition	212 Jan 19 j 21:25	29° © 16'17	4°33'31
	206 Dec 26 j 04:34	0° ∡ ¹		greatest brilliancy	212 Jan 19 j 22:20	29° © 15'22	-1.3m
	207 Feb 04 j 17:13	ರ∘ರ		min. Earth dist.	212 Jan 20 j 10:54	29° 5 02'49	0.67643 AU
	207 Mar 16 j 11:17	0° ≈		direct	212 Feb 29 j 17:39	19° 5 24'24	
	207 Apr 25 j 08:10	0° ∀			212 Apr 16 j 17:31	$0^{\circ}\Omega$	
	207 Jun 05 j 19:29	0° Υ			212 Jun 15 j 19:53	0° m)	
	207 Jul 22 j 08:40	$0^{\circ}B$			212 Aug 03 j 04:21	0∘ ⊽	
retrograde	207 Sep 30 j 06:27	24° 8 38'39		desc. node	212 Aug 12 j 09:56	6° ഫ 08'29	
asc. node	207 Oct 20 j 23:00	21° 8 32'20			212 Sep 15 j 18:11	0°M₊	
min. Earth dist.	207 Nov 01 j 04:18	17° 8 42'16	0.55097 AU		212 Oct 26 j 08:33	0° ∡ ¹	
opposition	207 Nov 08 j 00:10	15° 8 03'40	0°50'23		212 Dec 04 j 03:32	0°ెవ	
greatest brilliancy	207 Nov 07 j 18:28	15° 8 09'11		evening set	212 Dec 14 j 23:11	8° ප 30'38	
5	j - -	-		<i>3</i>	, j =		

	213 Jan 11 j 04:01	0° ≈			217 Oct 01 j 15:42	0° m	
	213 Feb 18 j 09:34	0° ∀			217 Nov 19 j 04:02	0∘ ত	
					218 Jan 08 j 16:02	0° M.	
conjunction	213 Feb 20 j 06:15	1°) 26'40	-0°58'51		218 Mar 07 j 20:59	0° ∡ ¹	
minimum elong	213 Feb 20 j 08:46	1°) 31'33	0°58'50	desc. node	218 Apr 04 j 06:18	9° ∡ 740'58	
	213 Mar 29 j 17:10	0°Υ		retrograde	218 Apr 28 j 21:17	13° ∡ *04'53	
max. Earth dist.	213 Apr 12 j 04:39	10° Y 00'19	2.42011 AU	opposition	218 May 30 j 15:08	7° × ⁷ 24'21	3°20'44
		21° Υ 45'56	2.42011 AU			7°×709'43	
morning rise	213 Apr 28 j 07:48			greatest brilliancy	218 May 31 j 10:39		
	213 May 09 j 19:32	0°8		min. Earth dist.	218 Jun 06 j 16:39	5° ∡ 17'32	0.41627 AU
asc. node	213 Jun 11 j 19:33	22° 8 58'42		direct	218 Jul 03 j 19:37	0° ∡ 43'07	
	213 Jun 22 j 04:40	$\Pi^{\circ}0$			218 Sep 17 j 18:31	0°₹	
	213 Aug 07 j 06:15	0 \circ			218 Nov 01 j 19:05	0° ≈	
	213 Sep 26 j 00:36	$0 {\circ} \Omega$			218 Dec 14 j 06:12	0° ℋ	
	213 Nov 24 j 04:01	0° m			219 Jan 25 j 22:02	0 ° Υ	
retrograde	214 Jan 15 j 02:02	12° Mp 37'26		asc. node	219 Feb 01 j 16:58	4° Ƴ 42'30	
opposition	214 Feb 22 j 19:15	3° m 43'30	4°11'42		219 Mar 10 j 18:19	0°8	
greatest brilliancy	214 Feb 23 j 10:36	3° m 28'33	-1.4m		219 Apr 25 j 01:39	0°II	
min. Earth dist.	214 Feb 27 j 05:16	2° m 00'17		evening set	219 Jun 02 j 08:47	24° ∏ 45'07	
iiiii. Lartii dist.	214 Mar 04 j 12:39	2 11,00 17 30°RΩ	0.04244 AU	evening set	219 Jun 10 j 13:26	0°95	
1:4	·	23° Ω 42'38			219 Juli 10 J 13.20	0 39	
direct	214 Apr 05 j 02:37				210 1 1 10:15 06	240654126	1000116
	214 May 09 j 06:49	0° m		conjunction	219 Jul 19 j 15:06	24°954'36	1°08'16
desc. node	214 Jun 30 j 08:23	24° Mp 28'16		minimum elong	219 Jul 19 j 14:39	24° © 53'52	1°08'16
	214 Jul 09 j 19:31	0∘ ত		max. Earth dist.	219 Jul 19 j 11:08	24° © 48'17	2.67413 AU
	214 Aug 25 j 01:52	0° M			219 Jul 27 j 14:56	$0 {\circ} \Omega$	
	214 Oct 05 j 13:08	0° ∡ ¹		morning rise	219 Sep 02 j 11:39	23° Ω 32′10	
	214 Nov 13 j 16:18	6°0			219 Sep 12 j 13:29	0° m	
	214 Dec 21 j 22:08	0° ≈			219 Oct 28 j 21:51	0∘ ⊽	
	215 Jan 29 j 09:55	0°) €			219 Dec 13 j 13:43	0°M	
evening set	215 Feb 23 j 07:25	18°) 58'33			220 Jan 27 j 18:10	0° ⊼ ¹	
evening set	·	0°Υ		desc. node	220 Feb 20 j 05:13	15° ∡ ³34'56	
	215 Mar 10 j 01:27			desc. node			
	215 Apr 20 j 11:49	9° 8			220 Mar 13 j 02:23	್ರಂ	
					220 Apr 29 j 16:22	0° ≈	
conjunction	215 Apr 25 j 05:48	3° 8 20'48		retrograde	220 Jul 16 j 18:54	29° ≈ 35'52	
minimum elong	215 Apr 25 j 05:56	3° 8 21'02	0°02'52	min. Earth dist.	220 Aug 12 j 20:22	25° ≈ 08′20	0.38595 AU
behind sun begin	215 Apr 24 j 06:06	2° 8 39'10		opposition	220 Aug 17 j 16:26	23° ≈ 45'44	-6°22'41
behind sun end	215 Apr 26 j 05:46	4° 8 02'52		greatest brilliancy	220 Aug 16 j 18:34	24° ≈ 01'21	-2.8m
asc. node	215 Apr 29 j 19:28	6° 8 32'54		direct	220 Sep 16 j 12:17	18° ≈ 36'53	
max. Earth dist.	215 May 29 j 01:52	26° 8 40'10	2.55035 AU		220 Nov 01 j 01:54	0°) €	
	215 Jun 03 j 00:21	0°II		asc. node	220 Dec 19 j 16:12	25°) €28'08	
morning rise	215 Jun 19 j 06:24	10° Ⅱ 50'52		use. Houe	220 Dec 27 j 09:11	0°Υ	
morning risc	-	0°9			-	0°8	
	215 Jul 18 j 14:29				221 Feb 14 j 12:08		
	215 Sep 04 j 04:01	0° N			221 Apr 03 j 14:47	0° Ⅱ	
	215 Oct 24 j 04:10	0° m ∕			221 May 21 j 15:41	0ಂ ತಾ	
	215 Dec 18 j 22:43	0∘ ಹ			221 Jul 08 j 09:34	$0^{\circ}\Omega$	
retrograde	216 Feb 27 j 12:18	20° £ 57'04		evening set	221 Jul 09 j 15:27	0° Ω 47'18	
opposition	216 Apr 03 j 15:42	13° ≏ 16′08	2°01'14	max. Earth dist.	221 Aug 10 j 17:52	21° Ω 15'51	2.65486 AU
greatest brilliancy	216 Apr 04 j 06:58	13° ≏ 02'12	-1.9m				
min. Earth dist.	216 Apr 11 j 09:49	10° £ 26'36	0.54556 AU	conjunction	221 Aug 24 j 09:29	0° ™ 04'51	1°03'22
direct	216 May 13 j 08:22	3° £ 57'15		minimum elong	221 Aug 24 j 10:22	0°M/06'16	1°03'22
desc. node	216 May 17 j 07:14	4° ഫ 03'31			221 Aug 24 j 06:30	0° m	
	216 Jul 25 j 22:17	0°M		morning rise	221 Oct 08 j 10:19	29° Mp 46'18	
	216 Sep 09 j 22:48	0° ∡ 7			221 Oct 08 j 18:29	0∘ ಹ	
	216 Oct 20 j 19:37	°5			221 Nov 21 j 16:47	0° M	
					222 Jan 03 j 03:03		
	216 Nov 29 j 02:16	0° ≈			-	0° ⊀ ⁷	
	217 Jan 07 j 10:39	0°) €		desc. node	222 Jan 07 j 05:09	2° ∡ 756′26	
_	217 Feb 16 j 21:53	0°Υ			222 Feb 13 j 08:27	0° ට	
asc. node	217 Mar 16 j 18:44	19° Ƴ 58'00			222 Mar 25 j 21:44	0° ≈	
	217 Mar 31 j 02:28	9° 8			222 May 05 j 19:51	0° ∀	
evening set	217 Apr 19 j 14:29	13° 8 25'16			222 Jun 18 j 09:49	0 ° $\mathbf{\Upsilon}$	
	217 May 14 j 04:58	$\Pi^{\circ}0$			222 Aug 14 j 04:49	9° 8	
				retrograde	222 Sep 12 j 23:48	5° 8 43'06	
conjunction	217 Jun 10 j 13:21	18° Ⅱ 02'09	0°46'10		222 Oct 11 j 15:22	30° Ŗ ♈	
minimum elong	217 Jun 10 j 11:54	17° Ⅱ 59'47		min. Earth dist.	222 Oct 12 j 17:32	29° Y 36'37	0.50157 AU
max. Earth dist.	217 Jun 25 j 08:07		2.63899 AU	opposition	222 Oct 20 j 13:18	26° Y 42'54	
diot.	217 Jun 28 j 23:36	0°9		greatest brilliancy	222 Oct 20 j 07:34	26° Y 48'13	
morning rise	217 Jul 28 j 09:38	18° 9 51'37		asc. node	222 Nov 06 j 15:07	20 γ 48 13 21° Υ 20'02	₩.₩111
morning 1180		0°Ω			-	19° Y 21'09	
	217 Aug 14 j 22:41	0 06		direct	222 Nov 23 j 17:15	12 1 21 09	

·							
	223 Jan 08 j 10:05	0°8		morning rise	228 Apr 02 j 07:22	27°) €05'09	
	223 Mar 10 j 02:29	0°II		morning rise	228 Apr 06 j 04:33	0°Υ	
	223 May 01 j 03:26	0°©			228 May 17 j 05:48	0°8	
	223 Jun 19 j 13:36	0° U		asc. node	228 Jun 28 j 12:40	29° 8 13'25	
				asc. node			
	223 Aug 05 j 23:30	0° Mp			228 Jun 29 j 16:30	0° Ⅱ	
evening set	223 Aug 16 j 09:28	6° Mp 46'26	2 50225 444		228 Aug 15 j 05:44	0°©	
max. Earth dist.	223 Sep 06 j 04:23	20° mg 30'40	2.58327 AU		228 Oct 05 j 23:08	0 \circ Ω	
	223 Sep 20 j 06:33	0∘ ⊽		retrograde	228 Dec 31 j 13:27	29° Ω 28'19	
				opposition	229 Feb 08 j 21:22	20° Ω 14'39	4°30'23
conjunction	223 Oct 02 j 14:50	8° ≏ 25'59		greatest brilliancy	229 Feb 09 j 07:33	20° Ω 04'36	-1.3m
minimum elong	223 Oct 02 j 15:58	8° ≏ 27'56	0°31'34	min. Earth dist.	229 Feb 11 j 19:15	19° Ω 05'44	0.66353 AU
	223 Nov 02 j 10:26	0° M .		direct	229 Mar 22 j 04:56	10° Ω 13′20	
morning rise	223 Nov 20 j 18:38	13°M11'06			229 May 28 j 01:24	O° m y	
desc. node	223 Nov 25 j 04:21	16°M23'16		desc. node	229 Jul 17 j 00:42	28° m 12'25	
	223 Dec 13 j 16:29	0° ∡ ¹			229 Jul 19 j 21:16	0∘ ত	
	224 Jan 22 j 11:50	ರ°0			229 Sep 02 j 16:06	0° M ,	
	224 Mar 01 j 11:42	0° ≈			229 Oct 13 j 15:53	0° ∡ ¹	
	224 Apr 09 j 11:54	0° \			229 Nov 21 j 14:05	0°ರ	
	224 May 19 j 14:28	ο°Υ			229 Dec 29 j 16:29	0° ≈	
	224 Jul 01 j 10:08	0°8		evening set	230 Jan 27 j 18:35	22°≈49'09	
	224 Aug 20 j 00:14	0°II		evening set	230 Feb 06 j 00:31	0° ∀	
		15° Ⅱ 08'34				0°Υ	
asc. node	224 Sep 23 j 13:23				230 Mar 17 j 11:39	U- Y	
retrograde	224 Oct 23 j 07:42	20° Ⅱ 25'20	0.61460.477		000 1 00:1614	1100055105	000 (150
min. Earth dist.	224 Nov 27 j 07:31		0.61469 AU	conjunction	230 Apr 02 j 16:14	11° Υ 57'05	
opposition	224 Dec 02 j 01:45	10° Ⅱ 28'56		minimum elong	230 Apr 02 j 18:06	12° Y 00′30	0°26'50
greatest brilliancy	224 Dec 01 j 13:17	10° Ⅱ 41′22	-1.6m		230 Apr 27 j 17:37	0° 8	
direct	225 Jan 08 j 23:05	1° Ⅱ 37'19		max. Earth dist.	230 May 15 j 00:12	12° 8 07'41	2.50280 AU
	225 Apr 04 j 17:56	0 \circ		asc. node	230 May 16 j 10:52	13° 8 07'49	
	225 May 28 j 22:49	$0 ^{\circ} \Omega$		morning rise	230 Jun 01 j 00:45	23° 8 50'15	
	225 Jul 16 j 22:52	0° m)			230 Jun 10 j 03:06	$\Pi^{\circ}0$	
	225 Aug 31 j 14:57	0∘ 亚			230 Jul 25 j 18:51	0 \circ \odot	
evening set	225 Sep 26 j 15:20	17° £ 58'31			230 Sep 11 j 21:21	$0^{\circ}\Omega$	
max. Earth dist.	225 Oct 11 j 13:28	28° ₽ 34'33	2.46741 AU		230 Nov 02 j 19:06	0° m	
desc. node	225 Oct 12 j 02:42	28° ≏ 58'17			231 Jan 08 j 12:10	0∘ ⊽	
	225 Oct 13 j 13:03	0° M		retrograde	231 Feb 09 j 05:40	5° ≏ 15'24	
				22.2.8	231 Mar 10 j 08:00	30°R.Mp	
conjunction	225 Nov 18 j 16:47	26°M35'26	-0°23'41	opposition	231 Mar 18 j 13:57	27° m) 01'00	3°08'47
minimum elong	225 Nov 18 j 15:27	26°M32'55		greatest brilliancy	231 Mar 19 j 08:45	26° m/43'15	
minimum clong	225 Nov 18 j 15.27 225 Nov 23 j 05:31	20 ll c 32 33	0 23 40	min. Earth dist.	231 Mar 25 j 04:01		0.59029 AU
							0.39029 AU
	226 Jan 01 j 08:27	0°る		direct	231 Apr 28 j 05:44	17° Mp 16'19	
morning rise	226 Jan 17 j 22:56	12° る 57'24		desc. node	231 Jun 03 j 23:11	24° m/46'54	
	226 Feb 08 j 16:31	0° ≈			231 Jun 16 j 15:07	0∘ ⊽	
	226 Mar 19 j 02:18	0° ∀			231 Aug 08 j 21:10	0° M	
	226 Apr 27 j 11:32	0° Ƴ			231 Sep 21 j 03:04	0° ∡	
	226 Jun 07 j 18:53	$0^{\circ}S$			231 Oct 31 j 00:09	0° ප	
	226 Jul 22 j 05:15	Π $^{\circ}0$			231 Dec 08 j 17:09	0° ≈	
asc. node	226 Aug 11 j 13:04	12° Ⅱ 43'56			232 Jan 16 j 14:29	0° ℋ	
	226 Sep 10 j 14:07	0°€			232 Feb 25 j 15:29	$0^{\circ}\mathbf{\Upsilon}$	
retrograde	226 Nov 27 j 14:49	26°507'04		evening set	232 Mar 30 j 15:33	24° Ƴ 30′11	
opposition	227 Jan 06 j 17:22	16° © 18'45	4°20'07	asc. node	232 Apr 02 j 10:18	26° Ƴ 27'59	
min. Earth dist.	227 Jan 05 j 18:09	16°\$542'04	0.67166 AU		232 Apr 07 j 10:57	9° 8	
greatest brilliancy	227 Jan 06 j 12:35	16°523'33	-1.3m		232 May 21 j 06:14	$\Pi^{\circ}0$	
direct	227 Feb 15 j 23:59	6°€38'20			, ,		
	227 May 02 j 19:05	$0^{\circ}\Omega$		conjunction	232 May 24 j 13:45	2° Ⅱ 12'59	0°30'12
	227 Jun 25 j 21:56	0° m/y		minimum elong	232 May 24 j 12:27	2° Ⅱ 10'48	0°30'11
	227 Aug 12 j 01:12	0∘ ⊽		max. Earth dist.	232 Jun 15 j 04:41		2.61058 AU
desc. node	227 Aug 30 j 01:25	0 == 12° £ 13'28		max. Darui dist.	232 Jul 15 j 04.41 232 Jul 05 j 21:27	10 ಗ 3137	2.01030 AO
desc. Hode		0°ML		morning rice		0 4°958'20	
	227 Sep 24 j 06:50			morning rise	232 Jul 13 j 14:34		
	227 Nov 03 j 19:45	0° ⊀ 7 129 ⋅ ₹ 2012 4			232 Aug 21 j 23:29	0° N	
evening set	227 Nov 19 j 22:48	12° ₹ 20'34			232 Oct 09 j 07:10	0° ™	
	227 Dec 12 j 15:27	ි 0°ප			232 Nov 28 j 11:42	0∘ ⊽	
	228 Jan 19 j 16:45	0° ≈			233 Jan 23 j 03:53	0°M	
				retrograde	233 Apr 01 j 18:56	20°M21'24	
conjunction	228 Jan 23 j 08:19	2° ≈ 52'51		desc. node	233 Apr 20 j 21:59	18°M05'39	
minimum elong	228 Jan 23 j 08:02	2° ≈ 52'18		opposition	233 May 05 j 12:38	13°M48'51	
max. Earth dist.	228 Feb 20 j 23:41		2.37560 AU	greatest brilliancy	233 May 05 j 18:44	13°M43'47	
	228 Feb. 26 i 22:08	∩∘¥		min Farth dist	233 May 13 i 23:25	110M 01/38	0.46549.411

min. Earth dist.

233 May 13 j 23:25

11°ML01'38 0.46549 AU

228 Feb 26 j 22:08

0°**)**€

direct	233 Jun 11 j 10:49	5° ™ 49'11		conjunction	238 Sep 16 j 18:20	22° m 59'09	0°47'04
	233 Aug 18 j 12:44	0° ∡		minimum elong	238 Sep 16 j 19:36	23° m 01'16	0°47'03
	233 Oct 03 j 03:45	8°0			238 Sep 27 j 04:31	0∘ ত	
	233 Nov 13 j 11:23	0° ≈		morning rise	238 Nov 02 j 16:32	25° ♀ 08'27	
	233 Dec 24 j 03:23	0° ∀			238 Nov 09 j 14:15	0°M	
	234 Feb 03 j 15:00	0° Y		desc. node	238 Dec 11 j 20:04	23°M07'52	
asc. node	234 Feb 18 j 09:31	10° Y ′26′17			238 Dec 21 j 05:30	0° ∡ ¹	
	234 Mar 18 j 15:11	0°8			239 Jan 30 j 11:29	0°8	
	234 May 02 j 08:14	0°II			239 Mar 10 j 22:16	0° ≈	
evening set	234 May 17 j 07:50	9° ∏ 49'45			239 Apr 19 j 09:53	0° ∀	
evening set	234 Jun 17 j 11:23	0°95			239 May 30 j 05:05	0°Υ	
	234 Juli 17 J 11.23	0 3			239 Jul 13 j 18:01	0°8	
	224 1 1 04:22 24	11061207	1002156				
conjunction	234 Jul 04 j 23:24	11°5013'07	1°02'56		239 Sep 11 j 15:56	0°II	
minimum elong	234 Jul 04 j 22:25	11°5511'33	1°02'56	retrograde	239 Oct 09 j 08:18	4° ∏ 46'10	
max. Earth dist.	234 Jul 10 j 09:48	14° © 41'28	2.66700 AU	asc. node	239 Oct 11 j 06:34	4° ∏ 44'34	
	234 Aug 03 j 10:18	0 $^{\circ}$ Ω			239 Nov 04 j 09:17	30° ₹ 8	
morning rise	234 Aug 19 j 14:14	10° Ω 17'03		min. Earth dist.	239 Nov 11 j 09:34	27° 8 24'55	0.57566 AU
	234 Sep 19 j 13:41	0° m p		opposition	239 Nov 17 j 13:00	25° 8 00'04	1°38'24
	234 Nov 05 j 13:08	0∘ ⊽		greatest brilliancy	239 Nov 17 j 03:11	25° 8 09'43	-1.8m
	234 Dec 22 j 11:03	0° M		direct	239 Dec 24 j 02:45	16° 8 37'36	
	235 Feb 07 j 23:51	0° ∡			240 Feb 15 j 11:03	Π $^{\circ}0$	
desc. node	235 Mar 08 j 22:23	17° ∡ ³37′07			240 Apr 15 j 08:46	0 \circ \mathfrak{S}	
	235 Mar 30 j 10:03	0°ප			240 Jun 06 j 00:18	$0^{\circ}\Omega$	
retrograde	235 Jun 17 j 10:41	28° පි 04'13			240 Jul 24 j 05:21	o° mp	
opposition	235 Jul 17 j 14:17	23° る 04'39	-6°44'30		240 Sep 07 j 16:31	0∘ <u>⊽</u>	
greatest brilliancy	235 Jul 17 j 15:58	23° る 03'33		evening set	240 Sep 09 j 06:51	1° £ 05'09	
min. Earth dist.	235 Jul 17 j 19:27		0.37436 AU	max. Earth dist.	240 Sep 25 j 04:23	12° ⊆ 00'52	2.51667 AU
direct	235 Aug 16 j 11:05	18° る 05'38	0.57 150 110	max. Earth dist.	240 Oct 20 j 15:57	0°M	2.51007710
direct	235 Oct 01 j 07:01	0°≈		desc. node	240 Oct 28 j 18:51	5°M51'06	
		0° ∀		desc. node	240 Oct 26 j 16.51	3 11631 00	
	235 Nov 23 j 22:45				240.0-4.20:00:00	60 m 16152	0000122
asc. node	236 Jan 06 j 07:13	27°) (44'50		conjunction	240 Oct 29 j 09:06	6°M16'53	
	236 Jan 09 j 18:21	0° Υ		minimum elong	240 Oct 29 j 09:03	6°M16'47	0°00'22
	236 Feb 24 j 21:17	0°8		behind sun begin	240 Oct 28 j 11:12	5°M37'15	
	236 Apr 11 j 13:17	Π °0		behind sun end	240 Oct 30 j 06:54	6°M56'22	
	236 May 28 j 20:04	0			240 Nov 30 j 12:48	0° ∡ 7	
evening set	236 Jun 25 j 02:19	17° © 14'05		morning rise	240 Dec 23 j 06:32	17° ∡ 13'49	
	236 Jul 15 j 05:42	$\mathfrak{O}_{\circ} \mathfrak{O}$			241 Jan 08 j 20:58	0° ප	
max. Earth dist.	236 Aug 01 j 14:02	11° Ω 02'53	2.66888 AU		241 Feb 16 j 09:55	0° ≈	
					241 Mar 26 j 23:40	0° ∀	
conjunction	236 Aug 10 j 02:08	16° Ω 29'15	1°08'25		241 May 05 j 12:51	0 ° Υ	
minimum elong	236 Aug 10 j 02:32	16° Ω 29'54	1°08'25		241 Jun 16 j 04:01	0°8	
	236 Aug 31 j 01:49	o° mp			241 Jul 31 j 14:18	$\Pi^{\circ}0$	
morning rise	236 Sep 23 j 15:39	15° Mp 21'20		asc. node	241 Aug 28 j 05:18	16° Ⅱ 13'29	
Č	236 Oct 15 j 19:59	0∘ <u>v</u>			241 Sep 24 j 17:24	0° ©	
	236 Nov 29 j 07:06	0°M		retrograde	241 Nov 14 j 04:50	12° © 57'49	
	237 Jan 11 j 12:36	0° ∡ 7		min. Earth dist.	241 Dec 21 j 20:04	4°502'13	0.65685 AU
desc. node	237 Jan 23 j 21:31	8° ∡ ¹43'25		opposition	241 Dec 24 j 07:40	3°502'19	
dese. Hode	237 Feb 22 j 18:54	0°る		greatest brilliancy	241 Dec 23 j 22:14	3°9511'47	
		0°≈		greatest offinality	242 Jan 01 j 02:13	30°R∏	-1.4111
	237 Apr 05 j 16:29			Ji	,		
	237 May 18 j 18:34	0°) €		direct	242 Feb 01 j 19:33	23° I I37'35	
	237 Jul 07 j 20:43	0° Υ			242 Mar 09 j 03:57	0° ©	
retrograde	237 Aug 24 j 05:50	13° Y ′24'47			242 May 13 j 21:05	$0^{\circ}\Omega$	
min. Earth dist.	237 Sep 20 j 21:02		0.44958 AU		242 Jul 04 j 04:41	0° m	
opposition	237 Sep 28 j 23:59	5° Y 24'46			242 Aug 19 j 14:09	0∘ ত	
greatest brilliancy	237 Sep 28 j 04:43	5° Ƴ 41'19	-2.5m	desc. node	242 Sep 15 j 17:49	18° ≏ 41'11	
	237 Oct 18 j 15:23	30°Ŗ ℋ			242 Oct 01 j 15:28	0° M	
direct	237 Oct 31 j 08:24	28°) € 54'54		evening set	242 Oct 27 j 17:40	19° ™ 07'14	
	237 Nov 13 j 10:19	$0^{\circ}\Upsilon$			242 Nov 11 j 05:04	0° ∡	
asc. node	237 Nov 23 j 06:28	2° Y '04'31		max. Earth dist.	242 Nov 22 j 16:09	8° ≯ 44'08	2.39141 AU
	238 Jan 26 j 12:32	9° 8			242 Dec 20 j 02:48	ರ°0	
	238 Mar 20 j 04:26	0°Щ			·		
	238 May 09 j 03:01	0°95		conjunction	242 Dec 26 j 10:38	4° る 57'12	-0°56'17
	238 Jun 26 j 17:28	$0^{\circ}\Omega$		minimum elong	242 Dec 26 j 08:13	4° る 52'28	
evening set	238 Aug 01 j 12:20	22° Ω 40'50			243 Jan 27 j 05:53	0°≈	
Croming Soc	238 Aug 12 j 20:35	0° Mp		morning rise	243 Mar 05 j 01:50	0 ∞ 28°≈53'50	
may Earth dist			2 61720 ATT	morning 1150		28 ≈33 30 0° ∺	
max. Earth dist.	238 Aug 26 j 08:13	o 111/4/33	2.61729 AU		243 Mar 06 j 11:52	0° Υ	
					243 Apr 14 j 17:51	UI	

	243 May 25 j 19:15	0° 8		desc. node	248 May 07 j 14:59	16° ≏ 32'38	
	243 Jul 08 j 10:30	$\Pi^{\circ}0$		direct	248 May 23 j 05:44	14° £ 51'41	
asc. node	243 Jul 16 j 03:57	5° Ⅱ 05'20			248 Jul 14 j 23:11	0° M	
	243 Aug 24 j 19:52	0° ©			248 Sep 02 j 17:55	0° ∡ 7	
	243 Oct 19 j 08:35	0°N			248 Oct 14 j 15:07	0°ප	
retrograde	243 Dec 18 j 17:26	16° Ω 39'43			248 Nov 23 j 09:43	0°≈	
•			4025152		,	0 ≈ 0° ∺	
opposition	244 Jan 27 j 11:43	7° Ω 09'56			249 Jan 02 j 02:05	0° Υ	
greatest brilliancy	244 Jan 27 j 15:57	7° Ω 05'43	-1.3m	4	249 Feb 11 j 19:25		
min. Earth dist.	244 Jan 28 j 21:04	6° Ω 36'44	0.67459 AU	asc. node	249 Mar 07 j 00:38	16° Ƴ 35'19	
	244 Feb 16 j 20:07	30° ₹ 5			249 Mar 26 j 05:07	0°8	
direct	244 Mar 08 j 13:35	27°©13'31		evening set	249 Apr 30 j 03:21	23° 8 46'23	
	244 Mar 30 j 23:25	$0 {\circ} \Omega$			249 May 09 j 11:18	Π $^{\circ}0$	
	244 Jun 09 j 04:29	0° m y					
	244 Jul 28 j 18:00	0∘ ত		conjunction	249 Jun 19 j 17:40	27° Ⅲ 01'41	0°53'33
desc. node	244 Aug 02 j 16:25	3° ₽ 13'36		minimum elong	249 Jun 19 j 16:19	26° Ⅲ 59'30	0°53'33
	244 Sep 10 j 17:01	0° M .			249 Jun 24 j 08:05	0ංම	
	244 Oct 21 j 10:42	0° ∡ ¹		max. Earth dist.	249 Jun 30 j 23:45	4°917'14	2.65137 AU
	244 Nov 29 j 06:50	0°రె		morning rise	249 Aug 05 j 14:52	27° © 03'12	
evening set	244 Dec 30 j 16:12	24° る 44'36		5 2	249 Aug 10 j 06:13	$0^{\circ}\Omega$	
evening sec	245 Jan 06 j 07:56	0°≈			249 Sep 26 j 17:11	0° mp	
	245 Feb 13 j 13:59	0° ₩			249 Nov 13 j 13:33	0∘ ಹ ೧.೫	
	243 FC0 13 j 13.39	0 /				0° ™	
	245.34 07:22.56	170 1 12152	0040110		250 Jan 01 j 09:31		
conjunction	245 Mar 07 j 23:56	17° ¥ 13'53			250 Feb 22 j 14:27	0° ∡ ¹	
minimum elong	245 Mar 08 j 02:54	17° ¥ 19'33	0°49'1/	desc. node	250 Mar 25 j 13:32	15° ∡ 12'54	
	245 Mar 24 j 22:04	0° Υ		retrograde	250 May 15 j 22:23	28° ∡ 19'14 −	
max. Earth dist.	245 Apr 26 j 11:23	23° Y ′52'51	2.44993 AU	opposition	250 Jun 15 j 19:29	23° ₹ 03'33	
	245 May 05 j 00:43	0° 8		greatest brilliancy	250 Jun 16 j 15:30	22° ∡ 749'21	-2.8m
morning rise	245 May 11 j 08:45	4° 8 29'23		min. Earth dist.	250 Jun 21 j 00:11	21° ∡ ³35′26	0.39469 AU
asc. node	245 Jun 02 j 03:36	19° 8 39'29		direct	250 Jul 18 j 05:38	17° ∡ ¹08'00	
	245 Jun 17 j 08:26	Π $^{\circ}0$			250 Sep 03 j 00:57	6°0	
	245 Aug 02 j 04:24	$0 \circ \mathfrak{S}$			250 Oct 24 j 01:41	0° ≈	
	245 Sep 20 j 03:24	$0^{\circ}\Omega$			250 Dec 07 j 09:45	0° ∀	
	245 Nov 14 j 11:13	0° m y			251 Jan 20 j 00:49	0° Y	
retrograde	246 Jan 23 j 19:32	20° m 52'31		asc. node	251 Jan 23 j 00:06	2° Y 01'43	
opposition	246 Mar 03 j 02:40	12° m) 11'03	3°53'45		251 Mar 05 j 11:27	0° ႘	
greatest brilliancy	246 Mar 03 j 20:02	11° m) 54'17	-1.5m		251 Apr 20 j 03:40	Π $^{\circ}0$	
min. Earth dist.	246 Mar 08 j 07:40	10° m) 10'24			251 Jun 05 j 20:54	0°ಅ	
direct	246 Apr 13 j 06:56	2° m/ 13'19		evening set	251 Jun 11 j 04:31	3°523'22	
desc. node	246 Jun 20 j 16:08	23° m/39'31		evening see	251 Jul 23 j 00:36	0° Ω	
dese. Hode	246 Jul 02 j 08:44	0ಂ ರ		max. Earth dist.	251 Jul 24 j 17:56		2.67459 AU
	246 Aug 19 j 04:48	0° ™		max. Earth dist.	231 Jul 2+j 17.30	1 0005 45	2.07437710
	246 Sep 30 j 03:53	0° ⊼		amiumation	251 Iv. 27 : 21:04	3° Ω 05'21	1900/20
	246 Nov 08 j 12:00	0°る		conjunction minimum elong	251 Jul 27 j 21:04 251 Jul 27 j 20:55	3° Ω 05'07	1°09'29
	·			minimum elong	-		1 09 29
	246 Dec 16 j 20:49	0° ≈			251 Sep 07 j 21:56	0°M)	
	247 Jan 24 j 11:00	0° ∀		morning rise	251 Sep 10 j 11:51	1° m 39'47	
	247 Mar 05 j 04:47	0° Υ			251 Oct 24 j 00:47	0° ™	
evening set	247 Mar 09 j 06:28	3° Y ′00′13			251 Dec 08 j 04:51	0° M ₊	
	247 Apr 15 j 17:24	0°8			252 Jan 21 j 13:08	0° ∡ ¹	
asc. node	247 Apr 20 j 01:43	3° 8 03'29		desc. node	252 Feb 10 j 13:14	13° ∡ ³39'34	
					252 Mar 05 j 10:35	0°ਰ	
conjunction	247 May 06 j 21:13	14° 8 44'43			252 Apr 18 j 22:59	0° ≈	
minimum elong	247 May 06 j 20:39	14° 8 43'45	0°10'14		252 Jun 07 j 11:49	0° ∀	
behind sun begin	247 May 06 j 02:43	14° 8 12'54		retrograde	252 Jul 31 j 22:02	16°) 51′58	
behind sun end	247 May 07 j 14:34	15° 8 14'34		min. Earth dist.	252 Aug 27 j 12:22	12° ₩ 18'31	0.40410 AU
	247 May 29 j 07:13	$\Pi^{\circ}0$		greatest brilliancy	252 Sep 02 j 04:11	10°) 35′16	-2.7m
max. Earth dist.	247 Jun 05 j 03:57	4° Ⅱ 36′02	2.57412 AU	opposition	252 Sep 03 j 06:36	10°) 15′06	-5°19'45
morning rise	247 Jun 28 j 20:38	20° Ⅱ 15'25		direct	252 Oct 03 j 17:37	4°) 41′06	
	247 Jul 13 j 20:38	0°ಅ		asc. node	252 Dec 09 j 23:02	26° ₩ 02'46	
	247 Aug 30 j 04:16	0°N			252 Dec 17 j 13:01	0° Υ	
	247 Oct 18 j 09:52	0° mp			253 Feb 07 j 20:24	0°8	
	247 Dec 10 j 09:46	0∘ <mark>ಹ</mark> ಂ.ಗ			253 Mar 29 j 03:07	0°II	
	248 Feb 24 j 22:24	0° ™			253 May 16 j 17:20	0°ಅ	
retrograde	248 Mar 09 j 21:58	1°ML08'12			253 Jul 03 j 17:30	0° U	
renograde	248 Mar 23 j 07:49	30°R <u>Ω</u>		evening set	253 Jul 03 j 17.30 253 Jul 17 j 23:03	9° Ω 00'26	
onnosition			1°09'17	max. Earth dist.	-		2.64369 AU
opposition	248 Apr 14 j 07:34	23° £ 48'49		max. Earth tist.	253 Aug 16 j 08:18	27° Ω 50'19	4.04309 AU
greatest brilliancy	248 Apr 14 j 17:17	23° £ 40'11	-2.1m 0.51821 AU		253 Aug 19 j 16:22	0° m)	
min. Earth dist.	248 Apr 22 j 13:13	20 = 334/	0.51021 AU				

	252.0	00 70 0 111 5	0050122		250 D 20:16.40	200-0	
conjunction	253 Sep 01 j 18:14	8° mp 31'15			258 Dec 29 j 16:48	30° ₹ 5	
minimum elong	253 Sep 01 j 19:19	8° m/33'02	0°58'32	opposition	259 Jan 14 j 07:20	24°513'27	4°29'19
	253 Oct 04 j 03:05	0∘ ⊽		greatest brilliancy	259 Jan 14 j 05:35	24° © 15'13	-1.3m
morning rise	253 Oct 17 j 06:42	8° ≏ 53'54		min. Earth dist.	259 Jan 14 j 03:58	24°©16'49	0.67561 AU
	253 Nov 16 j 20:52	0° M ₊		direct	259 Feb 23 j 22:20	14° © 26'21	
desc. node	253 Dec 28 j 12:20	29°M38'40			259 Apr 23 j 22:18	$0^{\circ}\Omega$	
	253 Dec 29 j 00:07	0° ∡ 7			259 Jun 20 j 01:53	0° m)	
	254 Feb 07 j 20:08	0°ප			259 Aug 06 j 22:51	0∘ ऌ	
	254 Mar 19 j 22:06	0° ≈		desc. node	259 Aug 20 j 09:36	9° ≏ 01'14	
	254 Apr 29 j 03:49	0°) €			259 Sep 19 j 10:26	0° M .	
	254 Jun 10 j 06:31	0 ° Υ			259 Oct 30 j 01:15	0° ∡ ¹	
	254 Jul 29 j 02:49	9° 8		evening set	259 Dec 04 j 06:39	27° ∡ 11′02	
retrograde	254 Sep 23 j 01:49	17° 8 15'37			259 Dec 07 j 20:56	0°ರ	
min. Earth dist.	254 Oct 24 j 00:52	10° 8 41'01	0.52938 AU		260 Jan 14 j 21:42	0° ≈	
asc. node	254 Oct 27 j 21:40	9° 8 13'05					
opposition	254 Oct 31 j 08:54	7° 8 53'23	0°10'06	conjunction	260 Feb 08 j 16:33	19° ≈ 31'29	-1°03'26
greatest brilliancy	255 Jun 27 j 18:24	8° Ω 07'44	1.8m	minimum elong	260 Feb 08 j 18:04	19° ≈ 34'28	1°03'25
direct	254 Dec 05 j 10:20	0° ප 07'33			260 Feb 22 j 02:34	0°) €	
	255 Mar 02 j 14:05	$\Pi^{\circ}0$		max. Earth dist.	260 Mar 28 j 01:48	26°) 47′09	2.39735 AU
	255 Apr 25 j 12:48	0ංම			260 Apr 01 j 08:28	$0^{\circ}\mathbf{\Upsilon}$	
	255 Jun 14 j 14:57	$0^{\circ}\Omega$		morning rise	260 Apr 17 j 12:01	11° Y 59'23	
	255 Aug 01 j 07:05	0° m)		•	260 May 12 j 08:55	$0^{\circ}S$	
evening set	255 Aug 25 j 05:05	15° m) 37'36		asc. node	260 Jun 18 j 18:06	25° 8 59'05	
max. Earth dist.	255 Sep 13 j 00:08	28° mp 12'11	2.56118 AU		260 Jun 24 j 16:54	0°II	
	255 Sep 15 j 15:46	0∘ ಹ			260 Aug 09 j 21:05	0°60	
					260 Sep 29 j 05:42	0°N	
conjunction	255 Oct 12 j 06:12	18° ≏ 20'11	0°20'49		260 Dec 01 j 13:16	0° m)	
minimum elong	255 Oct 12 j 07:03	18° ≏ 21'40	0°20'48	retrograde	261 Jan 08 j 18:47	7° Mp 25'15	
minimum clong	255 Oct 28 j 18:14	0°M	0 20 40	retrograde	261 Feb 12 j 13:55	30°R Ω	
desc. node	255 Nov 15 j 10:31	12°M44'14		opposition	261 Feb 16 j 19:10	28° Ω 21'55	4°20'58
morning rise	255 Dec 02 j 02:44	24°M58'23		greatest brilliancy	261 Feb 17 j 08:16	28° Ω 09'04	-1.4m
morning rise	255 Dec 08 j 21:16	0° √		min. Earth dist.	261 Feb 20 j 12:42	26° Ω 54'12	0.65317 AU
	256 Jan 17 j 12:37	0°る		direct	261 Mar 30 j 03:27	18° Ω 20'17	0.03317 AU
	-			direct			
	256 Feb 25 j 08:21	0° ≫		JJ.	261 May 17 j 18:55	0°M)	
	256 Apr 04 j 04:09			desc. node	261 Jul 07 j 08:01	26° m 12'13	
	256 May 14 j 00:07	0°Υ •••			261 Jul 13 j 14:50	0∘ 亚	
	256 Jun 25 j 05:17	0° B			261 Aug 28 j 05:57	0° M	
	256 Aug 11 j 13:41	0°II			261 Oct 08 j 13:11	0° ∡	
asc. node	256 Sep 13 j 21:25	17° I 108'26			261 Nov 16 j 14:33	ව°0 • • • • • •	
retrograde	256 Oct 31 j 10:33	29° Ⅱ 10'11	0.62227.434		261 Dec 24 j 18:45	0° ≈	
min. Earth dist.	256 Dec 06 j 10:11	20° Ⅱ 47'51	0.63227 AU		262 Feb 01 j 04:15	0° ∺	
opposition	256 Dec 10 j 09:36	19° Ⅱ 12'16	3°14'57	evening set	262 Feb 12 j 00:15	8° ∺ 20'12	
greatest brilliancy	256 Dec 09 j 21:22	19° Ⅱ 24'32	-1.5m		262 Mar 12 j 16:36	0° Y	
direct	257 Jan 17 j 22:14	10° Ⅱ 07'33					
	257 Mar 27 j 12:48	0° ©		conjunction	262 Apr 15 j 19:42	24° Y 54'08	
	257 May 23 j 06:28	0 $^{\circ}$ Ω		minimum elong	262 Apr 15 j 20:34	24° Y 55'41	0°12'59
	257 Jul 11 j 23:25	0° m ∕		behind sun begin	262 Apr 15 j 05:58	24° Y 29'35	
	257 Aug 26 j 21:33	0∘ ত		behind sun end	262 Apr 16 j 11:10	25° Y 21'46	
desc. node	257 Oct 02 j 10:01	25° ≙ 22'41			262 Apr 22 j 23:35	0°8	
evening set	257 Oct 07 j 06:41	28° ≏ 51'20		asc. node	262 May 06 j 18:05	9° 8 41'02	
	257 Oct 08 j 20:55	0° M		max. Earth dist.	262 May 23 j 13:44		2.52978 AU
max. Earth dist.	257 Oct 23 j 04:08	10°M23'03	2.43890 AU		262 Jun 05 j 09:09	$\Pi^{\circ}0$	
	257 Nov 18 j 12:32	0° ∡ 7		morning rise	262 Jun 11 j 16:16	4° Ⅱ 13'56	
					262 Jul 20 j 22:27	0 \circ	
conjunction	257 Dec 01 j 11:25	9° ∡ ¹50'55	-0°36'53		262 Sep 06 j 15:36	$0 {\circ} \Omega$	
minimum elong	257 Dec 01 j 09:19	9° ∡ ¹46'54	0°36'51		262 Oct 27 j 07:00	0° m)	
	257 Dec 27 j 13:28	0°ಕ			262 Dec 24 j 22:09	0∘ ত	
morning rise	258 Feb 03 j 02:07	29° る 25'57		retrograde	263 Feb 19 j 08:06	14° ≏ 27'43	
	258 Feb 03 j 19:26	0° ≈		opposition	263 Mar 28 j 01:33	6° ≏ 30'46	2°32'45
	258 Mar 14 j 03:24	0° ∀		greatest brilliancy	263 Mar 28 j 18:58	6° ≏ 14'35	-1.8m
	258 Apr 22 j 10:33	0° Y		min. Earth dist.	263 Apr 04 j 08:13	3° ≙ 48'57	0.56657 AU
	258 Jun 02 j 14:17	9° 8			263 Apr 16 j 01:06	30°R Mp	
	258 Jul 16 j 14:37	Π°		direct	263 May 07 j 06:14	26° m 58'31	
asc. node	258 Aug 01 j 19:54	10° Ⅱ 24'21		desc. node	263 May 25 j 06:31	28° m 59'04	
	258 Sep 03 j 11:06	0ංම			263 May 29 j 13:30	0∘ ⊽	
	258 Nov 08 j 19:03	$0^{\circ}\Omega$			263 Aug 01 j 07:42	0° M ₊	
retrograde	258 Dec 05 j 06:32	3° Ω 56′07			263 Sep 14 j 23:05	0° ∡ ¹	
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direct 267 Sep 03 j 12:27 6°≈00'34 conjunction 272 Nov 09 j 13:12 17° IL51'25 -0°13'36 267 Nov 12 j 21:26 0°	opposition	267 Aug 04 j 21:23	10° ≈ 57'31	-6°49'44	desc. node	272 Oct 19 j 02:21	2°M12'17	
asc. node 267 Nov 12 j 21:26 268 Jan 02 j 10:37 268 Feb 18 j 23:34 269 W 24 j 00:45 evening set 268 Jul 10 j 14:47 268 Aug 18 j 06:11 268 Aug 18 j 06:52 268 Aug 18 j 06:52 268 Aug 18 j 06:52 267 Dec 27 j 14:43 26° ₩ 22'54 268 Minimum elong 272 Nov 09 j 12:28 272 Nov 08 j 23:36 272 Nov 08 j 23:36 272 Nov 10 j 01:20 272 Nov 10 j 01:20 273 Nov 10 j 01:20 273 Jan 04 j 02:02 273 Jan 04 j 02:02 273 Jan 06 j 06:14 273 Jan 10 j 12:17 273 Jan 10 j 17:40 273 Jan 10	greatest brilliancy	267 Aug 04 j 08:39	11° ≈ 06′11	-2.9m				
asc. node 267 Nov 12 j 21:26 268 Lan 02 j 10:37 268 Feb 18 j 23:34 26° ★22'54 268 Apr 06 j 08:41 268 May 24 j 00:45 268 May 24 j 00:45 268 Jul 10 j 14:47 268 Jul 10 j 14:47 268 Aug 18 j 06:51 268 Aug 18 j 06:52 268 Aug 18 j 06:52 268 Aug 18 j 06:52 269 ★22'54 260 ★22'54 260 ★22'54 260 ★22'54 260 ★22'54 260 ★22'54 272 Nov 09 j 12:28 272 Nov 08 j 23:36 272 Nov 10 j 01:20 272 Nov 25 j 20:13 273 Nov 25 j 20:13 273 Jan 04 j 02:02 273 Jan 06 j 06:14 273 Jan 10 j 17:40 273 Jan 1	direct	267 Sep 03 j 12:27	6° ≈ 00'34		conjunction	272 Nov 09 j 13:12	17°ML51'25	-0°13'36
asc. node 267 Dec 27 j 14:43 26°光22'54 behind sun begin 272 Nov 08 j 23:36 17°		267 Nov 12 j 21:26	0° ∀		minimum elong		17° M 50'04	0°13'35
268 Jan 02 j 10:37	asc. node				_	-		
268 Feb 18 j 23:34 0° \mathbb{B} 268 Apr 06 j 08:41 0° \mathbb{I} 0° \mathbb{B} 268 Apr 06 j 08:41 0° \mathbb{I} 0° \mathbb{B} 273 Jan 04 j 02:02 0° \mathbb{B} 273 Jan 04 j 02:02 0° \mathbb{B} 268 May 24 j 00:45 0° \mathbb{B} 0° B					•	·		
268 Apr 06 j 08:41			0° X					
268 May 24 j 00:45 0°S morning rise 273 Jan 06 j 06:14 1°₹41'16		-						
evening set					morning rise			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	evening set				morning fise	-		
max. Earth dist. 268 Aug 06 j 21:41 $17^{\circ}\Omega 23'02$ 2.66213 AU 273 Apr 30 j 09:05 0°Υ 273 Jun 10 j 17:40 0°႘ conjunction 268 Aug 18 j 06:11 24° $\Omega 40'49$ 1°05'57 273 Jul 25 j 10:16 0° Π minimum elong 268 Aug 18 j 06:52 24° $\Omega 41'55$ 1°05'58 asc. node 273 Aug 18 j 11:41 14° $\Pi 45'47$	evening set					·		
conjunction 268 Aug 18 j 06:11 24° Ω 40'49 1°05'57 273 Jul 25 j 10:16 0° Π minimum elong 268 Aug 18 j 06:52 24° Ω 41'55 1°05'58 asc. node 273 Aug 18 j 11:41 14° Π 45'47	mov Forth di-t	-		2 66212 ATT				
conjunction 268 Aug 18 j 06:11 $24^{\circ}\Omega 40'49$ $1^{\circ}05'57$ 273 Jul 25 j 10:16 $0^{\circ}\Pi$ minimum elong 268 Aug 18 j 06:52 $24^{\circ}\Omega 41'55$ $1^{\circ}05'58$ asc. node 273 Aug 18 j 11:41 $14^{\circ}\Pi 45'47$	max. Earth dist.	200 Aug 00 J 21:41	1/062302	2.00213 AU				
minimum elong 268 Aug 18 j 06:52 24° Ω41'55 1°05'58 asc. node 273 Aug 18 j 11:41 14° Π45'47		260 A. 10:06 11	240 0 40140	1905157				
					•			
268 Aug 26 j 11:44 0° III) 273 Sep 15 j 02:35 0° 5	minimum elong			1~05.28	asc. node			
		268 Aug 26 J 11:44	O, III			2/3 Sep 15 J 02:35	0,50	

. 1	272 N 21 : 22 12	210601160			270 4 10:22.02	,,, U	
retrograde	273 Nov 21 j 22:12	21°901'58	0.66622 ATT		279 Apr 10 j 23:03	0°B	
min. Earth dist.	273 Dec 30 j 09:59	11°549'54	0.66632 AU		270 M 17 : 10.11	25° 8 22'58	0922112
opposition	274 Jan 01 j 01:57	11° © 09'46 11° © 16'53	4°10'58	conjunction	279 May 17 j 18:11	25° 8 21'09	0°22'12 0°22'12
greatest brilliancy direct	273 Dec 31 j 18:52 274 Feb 10 j 01:24	1°935'57	-1.3m	minimum elong	279 May 17 j 17:06 279 May 24 j 14:31	0°Ⅱ	0 22 12
direct	274 May 06 j 22:35	0°Ω		max. Earth dist.	279 Jun 11 j 19:03		2.59520 AU
	274 Jun 28 j 19:21	0° m)		morning rise	279 Jul 08 j 00:08	29° I 15'33	2.37320 AO
	274 Aug 14 j 16:15	0∘ ⊽		morning rise	279 Jul 09 j 03:37	0°9	
desc. node	274 Sep 06 j 01:13	° – 15° ≏ 16'06			279 Aug 25 j 06:53	$0^{\circ}\Omega$	
	274 Sep 26 j 21:13	0°M			279 Oct 12 j 22:19	0° m)	
	274 Nov 06 j 11:31	0° ∡ ¹			279 Dec 03 j 01:56	0∘ <u>v</u>	
evening set	274 Nov 09 j 11:26	2° ∡ 16′26			280 Jan 31 j 21:27	0° M	
-	274 Dec 15 j 08:41	0°ಕ		retrograde	280 Mar 22 j 09:33	12°M08'28	
max. Earth dist.	274 Dec 27 j 20:55	9° る 49'15	2.37373 AU	opposition	280 Apr 25 j 22:20	5° M ₊14'05	0°06'12
				greatest brilliancy	281 Sep 08 j 14:18	21° Q 34'35	1.8m
conjunction	275 Jan 10 j 20:43	20°る51'02	-1°03'02	desc. node	280 Apr 27 j 21:20	4° ጤ 33'41	
minimum elong	275 Jan 10 j 19:13	20°る48'04	1°03'01	min. Earth dist.	280 May 04 j 10:30	2° ™ 19'47	0.48912 AU
	275 Jan 22 j 10:48	0° ≈			280 May 11 j 23:25	30° ₽ Ω	
	275 Mar 01 j 16:05	0°) €		direct	280 Jun 02 j 20:46	26° ≏ 45'57	
morning rise	275 Mar 21 j 19:50	15° ∺ 33'16			280 Jun 25 j 07:03	0° M	
	275 Apr 09 j 21:20	0° Ƴ			280 Aug 25 j 06:00	0° ∡ ⊓	
	275 May 20 j 21:07	0°B			280 Oct 07 j 20:33	0°ರ	
	275 Jul 03 j 07:47	0°II			280 Nov 17 j 09:03	0° ≈	
asc. node	275 Jul 06 j 11:28	2° Ⅱ 06'06			280 Dec 27 j 12:47	0° \	
	275 Aug 19 j 02:10	0°95			281 Feb 06 j 14:36	0°Υ	
	275 Oct 10 j 22:11	0°N		asc. node	281 Feb 25 j 08:22	13° Y 19'50	
retrograde	275 Dec 26 j 14:19	24° Ω 26'58	4022150		281 Mar 21 j 06:38	0° B	
opposition	276 Feb 04 j 03:30	15° Ω 05'31			281 May 04 j 17:29	0° П	
greatest brilliancy	276 Feb 04 j 11:01	14° Ω 58'05 14° Ω 12'48	-1.3m 0.66979 AU	evening set	281 May 10 j 02:29	3° ∏ 33'15 0° ©	
min. Earth dist. direct	276 Feb 06 j 08:44 276 Mar 16 j 09:27	5°Ω05'56	0.009/9 AU		281 Jun 19 j 16:44	0.50	
direct	276 Jun 01 j 19:14	0° m)		conjunction	281 Jun 28 j 13:06	5° © 41'29	0°59'29
	276 Jul 23 j 03:00	0∘ ت المار		minimum elong	281 Jun 28 j 11:56	5°939'37	0°59'29
desc. node	276 Jul 24 j 00:18	ი∘ ⊸ 34'02		max. Earth dist.	281 Jul 06 j 11:37	10° © 46'57	2.66104 AU
dese. Hode	276 Sep 05 j 14:11	0°M		max. Lattii dist.	281 Aug 05 j 14:41	0°Ω	2.00104 AC
	276 Oct 16 j 12:19	0° ∡ 7		morning rise	281 Aug 13 j 15:54	5° Ω 07'01	
	276 Nov 24 j 10:01	0°ප		morning rise	281 Sep 21 j 21:07	0° mp	
	277 Jan 01 j 11:41	0° ≈			281 Nov 08 j 04:56	0∘ ⊽	
evening set	277 Jan 15 j 13:26	11° ≈ 05'17			281 Dec 25 j 20:25	0° M .	
-	277 Feb 08 j 18:17	0° ∀			282 Feb 12 j 22:59	0° ∡ ¹	
	277 Mar 20 j 03:01	0° Y		desc. node	282 Mar 15 j 21:45	17° ∡ ³37'50	
					282 Apr 09 j 07:44	5°0	
conjunction	277 Mar 22 j 21:17	2° Y '03'35	-0°37'01	retrograde	282 Jun 03 j 02:20	15° る 01'57	
minimum elong	277 Mar 22 j 23:49	2° Y ′08'19	0°37'00	opposition	282 Jul 03 j 08:10	10°る02'25	-6°08'23
	277 Apr 30 j 06:07	0° 8		greatest brilliancy	282 Jul 03 j 20:44	9° る 54'00	
max. Earth dist.	277 May 07 j 22:08		2.47961 AU	min. Earth dist.	282 Jul 05 j 23:58	9° る 19'45	0.37969 AU
morning rise	277 May 23 j 10:47	16° 8 16'02		direct	282 Aug 03 j 01:40	4° る 45'30	
asc. node	277 May 23 j 10:00	16° 8 14'41			282 Oct 12 j 17:54	0° ≈	
	277 Jun 12 j 13:20	0°Щ		_	282 Nov 29 j 14:49	0° ∀	
	277 Jul 28 j 05:02	0°©		asc. node	283 Jan 13 j 06:00	29°) 41′04	
	277 Sep 14 j 13:33	0° N			283 Jan 13 j 17:21	0°Υ	
	277 Nov 06 j 13:06	0°m/			283 Feb 27 j 23:20	0°B	
retrograde	278 Feb 01 j 23:46	29° m/25'50	2920147		283 Apr 15 j 03:17	0°© ∏	
opposition greatest brilliancy	278 Mar 11 j 19:03 278 Mar 12 j 13:29	20° m 58'30 20° m 40'53	3°29'47 -1.6m	evening set	283 Jun 01 j 03:13 283 Jun 19 j 19:01	0°ജ 11°ജ50'10	
min. Earth dist.	278 Mar 17 j 18:36	18° Mp 41'36	0.60769 AU	evening set	283 Jul 18 j 09:58	0°Ω	
direct	278 Apr 21 j 17:37	13 mg 41 30 11°mg 06'50	5.00/07 AU	max. Earth dist.	283 Jul 29 j 23:30		2.67253 AU
desc. node	278 Jun 10 j 22:47	24° My 00'36		mas. Darui dist.	200 vai 27 j 20.00	, 00213/	2.0,233 AU
acce. node	278 Jun 23 j 10:43	0° ʊ		conjunction	283 Aug 05 j 00:49	11° Ω 13'22	1°09'20
	278 Aug 12 j 21:39	0° ™		minimum elong	283 Aug 05 j 00:59	11° Ω 13'39	1°09'20
	278 Sep 24 j 13:55	0° ∡ 7			283 Sep 03 j 06:56	0° m)	/ =v
	278 Nov 03 j 05:24	0°ප		morning rise	283 Sep 18 j 13:20	9° m 53'37	
	278 Dec 11 j 18:20	0° ≈		5	283 Oct 19 j 05:18	0∘ ⊽	
	279 Jan 19 j 11:39	0° ∀			283 Dec 03 j 00:10	0° M ₊	
	279 Feb 28 j 08:10	0° Υ			284 Jan 15 j 17:04	0° ∡ ¹	
evening set	279 Mar 22 j 06:16	15° Ƴ 58'35		desc. node	284 Jan 31 j 20:59	11° ∡ 15′11	
asc. node	279 Apr 10 j 09:02	29° Y 35'20			284 Feb 27 j 14:47	8°0	

	284 Apr 10 j 10:12	0° ≈			289 Mar 17 j 06:35	0ං ව	
	284 May 25 j 06:26	0° ∀			289 May 17 j 05:16	$0 {\circ} \Omega$	
	284 Jul 25 j 06:48	0° Y			289 Jul 06 j 20:39	0° m y	
retrograde	284 Aug 14 j 15:54	2° Y 50'24			289 Aug 22 j 02:33	0∘ ত	
	284 Sep 03 j 16:00	30° ₹ ₩		desc. node	289 Sep 22 j 17:16	21° ≏ 49'35	
min. Earth dist.	284 Sep 10 j 14:18	27° ¥ 57'36	0.42768 AU		289 Oct 04 j 04:25	0° M .	
greatest brilliancy	284 Sep 17 j 09:09	25°) 45′14	-2.6m	evening set	289 Oct 18 j 13:43	10°M26'33	
opposition	284 Sep 18 j 09:01	25° ¥ 25'42	-4°01'48	max. Earth dist.	289 Nov 06 j 15:50	24°M35'56	2.41164 AU
direct	284 Oct 19 j 21:05	19° ∺ 21'10			289 Nov 13 j 20:00	0° ∡ 7	
asc. node	284 Nov 30 j 04:59	28° ¥ 38'40					
	284 Dec 03 j 13:42	0° Y		conjunction	289 Dec 15 j 03:53	24° ∡ 01'58	-0°48'47
	285 Jan 31 j 09:59	0° ႘		minimum elong	289 Dec 15 j 01:21	23° ₰ 757'04	0°48'45
	285 Mar 23 j 08:48	$\Pi^{\circ}0$			289 Dec 22 j 19:49	0°ರ	
	285 May 11 j 15:58	0 \circ \odot			290 Jan 30 j 00:10	0° ≈	
	285 Jun 29 j 00:06	$0^{\circ}\Omega$		morning rise	290 Feb 19 j 20:22	16° ≈ 23'30	
evening set	285 Jul 26 j 06:50	17° Ω 16′03			290 Mar 09 j 06:30	0°) €	
	285 Aug 15 j 02:01	0° m y			290 Apr 17 j 12:01	0 ° $\mathbf{\Upsilon}$	
max. Earth dist.	285 Aug 22 j 00:22	4° Mp 30'16	2.63010 AU		290 May 28 j 12:42	8°	
					290 Jul 11 j 05:30	$\Pi^{\circ}0$	
conjunction	285 Sep 10 j 06:13	17° m 08'38	0°52'22	asc. node	290 Jul 23 j 02:20	7° Ⅱ 45'17	
minimum elong	285 Sep 10 j 07:26	17° m) 10'38	0°52'21		290 Aug 28 j 00:40	0ಂತಾ	
	285 Sep 29 j 11:59	0∘ ⊽			290 Oct 25 j 03:18	$0^{\circ}\Omega$	
morning rise	285 Oct 26 j 11:00	18° ≏ 24'25		retrograde	290 Dec 12 j 23:16	11° Ω 42'35	
	285 Nov 12 j 02:09	0° M .		opposition	291 Jan 21 j 21:19	2° Ω 06'31	4°34'30
desc. node	285 Dec 18 j 19:26	26°MJ14'36		greatest brilliancy	291 Jan 21 j 22:49	2° Ω 05'01	-1.3m
	285 Dec 23 j 23:19	0° ∡ ¹		min. Earth dist.	291 Jan 22 j 13:57	1° Ω 49'55	0.67631 AU
	286 Feb 02 j 11:51	ರ°0			291 Jan 27 j 05:14	30° ℝ ∽	
	286 Mar 14 j 04:55	0° ≈		direct	291 Mar 03 j 19:28	22°©13'52	
	286 Apr 22 j 23:14	0° ∀			291 Apr 12 j 03:51	$0^{\circ}\Omega$	
	286 Jun 03 j 04:18	0° Υ			291 Jun 13 j 19:44	o° mp	
	286 Jul 18 j 21:35	0°B			291 Aug 01 j 16:06	0° ⊽	
retrograde	286 Oct 02 j 13:06	27° 8 57'00		desc. node	291 Aug 10 j 15:57	5° £ 56'33	
asc. node	286 Oct 18 j 05:12	26° 8 09'31			291 Sep 14 j 11:27	0° M .	
min. Earth dist.	286 Nov 03 j 16:23	20° 8 56'19	0.55567 AU		291 Oct 25 j 04:56	0°⊀	
opposition	286 Nov 10 j 09:53	18° 8 19'32	1°04'09		291 Dec 03 j 01:33	0°ರ	
greatest brilliancy	286 Nov 10 j 02:46	18° 8 26'26	-1.9m	evening set	291 Dec 19 j 12:02	12° る 55'52	
direct	286 Dec 16 j 08:03	10° 8 12'35			292 Jan 10 j 02:32	0° ≈	
	287 Feb 21 j 17:53	Π $^{\circ}0$			292 Feb 17 j 07:36	0° ℋ	
	287 Apr 19 j 14:30	0 \circ \odot					
	287 Jun 09 j 13:23	0 $^{\circ}$ Ω		conjunction	292 Feb 24 j 20:57	5° ∺ 51'17	
	287 Jul 27 j 13:45	0° m y		minimum elong	292 Feb 24 j 23:41	5° ¥ 56'36	0°56'51
evening set	287 Sep 03 j 06:11	24° m 44'48			292 Mar 27 j 13:50	0° Υ	
	287 Sep 11 j 01:01	0∘ ⊽		max. Earth dist.	292 Apr 15 j 18:49	14° Y 14'16	2.42575 AU
max. Earth dist.	287 Sep 20 j 06:36	6° ≏ 17'45	2.53739 AU	morning rise	292 May 01 j 10:16	25° Y 35′27	
		-			292 May 07 j 14:02	0° 8	
conjunction	287 Oct 22 j 07:45	28° Ω 42'54	0°09'01	asc. node	292 Jun 09 j 02:16	22° 8 42'16	
minimum elong	287 Oct 22 j 08:09	28° ₽ 43'38	0°09'01		292 Jun 19 j 20:13	0°∏	
behind sun begin	287 Oct 21 j 14:06	28° ♀ 11'27			292 Aug 04 j 17:27	0° ⊙	
behind sun end	287 Oct 23 j 02:13	29° ₽ 15'50			292 Sep 23 j 02:48	0° N	
	287 Oct 24 j 02:57	0°M			292 Nov 19 j 15:03	0° m/)	
desc. node	287 Nov 05 j 18:09	9°M05'48		retrograde	293 Jan 17 j 05:52	15° Mp 29'50	4007145
	287 Dec 04 j 03:22	0° ⋌ ¹ 7°. 7 3.444.6		opposition	293 Feb 24 j 21:32	6° Mp 37'53	4°06'45
morning rise	287 Dec 14 j 05:43	7° ∡ 734'46		greatest brilliancy	293 Feb 25 j 13:09	6° Mp 22'41	-1.4m
	288 Jan 12 j 15:14	5°0		min. Earth dist.	293 Mar 01 j 10:43	4° Mp 51'47	0.63964 AU
	288 Feb 20 j 07:08	0° ≈ 0° ∀		1:4	293 Mar 15 j 10:58	30°R Ω	
	288 Mar 29 j 23:02	0 Υ 0° Υ		direct	293 Apr 07 j 04:44	26° Ω 37'38	
	288 May 08 j 14:01 288 Jun 19 j 08:35	0°8		desc. node	293 May 01 j 13:47 293 Jun 27 j 15:20	0° Mp 24° Mp 46′37	
	288 Aug 04 j 08:02	0°U		uese. Hode	293 Jul 27 j 13:20 293 Jul 06 j 18:23	24°11()463/ 0° Ω	
asc. node	288 Sep 04 j 04:12	0 H 17°H23′08			293 Jul 00 j 18:23 293 Aug 22 j 14:22	0° m	
use. Houe	288 Oct 02 j 08:10	17 ப 2308 0°9			293 Aug 22 j 14.22 293 Oct 03 j 06:58	0° ⊼ 1	
retrograde	288 Nov 08 j 09:20	7°937'38			293 Nov 11 j 12:28	°ੁਤ	
	288 Dec 12 j 15:44	7 3 37 38			293 Nov 11 j 12:28 293 Dec 19 j 18:59	0°≈	
min. Earth dist.	288 Dec 15 j 07:28	28° I I56'43	0.64707 AU		294 Jan 27 j 06:24	0° ℋ	
opposition	288 Dec 18 j 11:34	27° I I40'21	3°39'45	evening set	294 Feb 26 j 15:46	23°) €07'41	
greatest brilliancy	288 Dec 18 j 00:31	27° Ⅱ 51′26	-1.4m	Č	294 Mar 07 j 20:49	$0^{\circ}\mathbf{\Upsilon}$	
direct	289 Jan 26 j 14:17	18° Ⅱ 24′04			294 Apr 18 j 05:35	0°8	
	•				•		

asc. node	294 Apr 27 j 00:49	6° 8 11'52			299 Apr 26 j 18:10	0° ≈	
conjunction	294 Apr 28 j 02:48	6° 8 57'18	0°00'41	retrograde	299 Jun 25 j 15:14 299 Jul 21 j 08:00	0° ∺ 4° ∺ 18'10	
minimum elong	294 Apr 28 j 02:42	6° 8 57'09	0°00'41	renograde	299 Aug 16 j 16:34	4 7€1810 30°R≈	
behind sun begin	294 Apr 27 j 02:55	6° 8 15'33	0 0041	min. Earth dist.	299 Aug 10 j 10:34 299 Aug 17 j 04:20	29°≈51'41	0.38874 AU
behind sun end	294 Apr 29 j 02:30	7° 8 38'43		opposition	299 Aug 22 j 12:01	28°≈19'53	
max. Earth dist.	294 May 31 j 03:18		2.55530 AU	greatest brilliancy	299 Aug 21 j 12:42	28°≈36'41	-2.8m
max. Darm dist.	294 May 31 j 16:13	0°II	2.33330110	direct	299 Sep 21 j 08:16	23°≈07'11	2.0111
morning rise	294 Jun 21 j 16:26	14° Ⅱ 00'58			299 Oct 25 j 19:27	0°) €	
	294 Jul 16 j 04:07	0ಂತಿ		asc. node	299 Dec 17 j 21:57	25°) 58'06	
	294 Sep 01 j 14:24	$0^{\circ}\Omega$			299 Dec 24 j 22:16	$0^{\circ}\Upsilon$	
	294 Oct 21 j 07:36	0° m			300 Feb 12 j 15:58	9° 8	
	294 Dec 15 j 01:27	0∘ ⊽			300 Mar 31 j 23:46	$\Pi^{\circ}0$	
retrograde	295 Mar 02 j 01:36	24° £ 08'12			300 May 19 j 03:05	0 \circ \odot	
opposition	295 Apr 07 j 03:05	16° ≏ 30'51	1°48'16		300 Jul 05 j 22:41	$0^{\circ}\Omega$	
greatest brilliancy	295 Apr 07 j 17:02	16° ≏ 18'11	-1.9m	evening set	300 Jul 11 j 18:50	3° Ω 41'41	
min. Earth dist.	295 Apr 15 j 00:22	13° ≏ 39'30	0.54070 AU	max. Earth dist.	300 Aug 12 j 09:09	23° Ω 51'49	2.65298 AU
desc. node	295 May 15 j 14:27	7° ≏ 16'07			300 Aug 21 j 21:14	0° m	
direct	295 May 16 j 17:08	7° ≏ 15'37					
	295 Jul 23 j 08:05	0°M		conjunction	300 Aug 26 j 12:34	3° ™ 00'34	1°02'07
	295 Sep 08 j 07:25	0° ∡		minimum elong	300 Aug 26 j 13:30	3° m/02'05	1°02'07
	295 Oct 19 j 11:00	ರ್∘ರ			300 Oct 06 j 10:40	0∘ ⊽	
	295 Nov 27 j 20:01	0° ≈		morning rise	300 Oct 10 j 14:57	2° £ 48'15	
	296 Jan 06 j 04:50	0° ℋ 0° Ƴ			300 Nov 19 j 09:56	0° M 0°. ₹	
1-	296 Feb 15 j 15:24	19° Ƴ 36'01		JJ.	300 Dec 31 j 20:26	0°⊀ ⁷ 2°∗₹27!21	
asc. node	296 Mar 13 j 23:03	0° 8		desc. node	301 Jan 04 j 11:56	2° メ 37'21 0° る	
evening set	296 Mar 28 j 18:48 296 Apr 22 j 06:15	16° 8 49'32			301 Feb 11 j 01:09 301 Mar 23 j 12:25	0°≈	
evening set	296 May 11 j 20:04	0° Ⅱ			301 May 03 j 05:47	0° ∺	
	200 May 11 J 20.04	νш			301 Jun 15 j 06:47	0° Υ	
conjunction	296 Jun 12 j 22:17	21° Ⅱ 08'56	0°48'22		301 Aug 07 j 12:06	0° 8	
minimum elong	296 Jun 12 j 20:51	21° I I06'35	0°48'20	retrograde	301 Sep 15 j 11:12	9° 8 18'59	
8	296 Jun 26 j 13:38	0ಂ ತಾ		min. Earth dist.	301 Oct 15 j 11:12		0.50677 AU
max. Earth dist.	296 Jun 26 j 23:24	0°915'47	2.64173 AU	opposition	301 Oct 23 j 05:07	0° 8 13'50	
morning rise	296 Jul 30 j 13:10	21° 5 47'01		greatest brilliancy	301 Oct 23 j 01:15	0° 8 17'27	-2.2m
	296 Aug 12 j 11:38	$0^{\circ}\Omega$			301 Oct 23 j 20:00	30° ₹ Υ	
	296 Sep 29 j 02:51	0° m		asc. node	301 Nov 03 j 20:35	26° Ƴ 15'15	
	296 Nov 16 j 10:51	0∘ ⊽		direct	301 Nov 26 j 12:24	22° Y 47'31	
	297 Jan 05 j 11:11	0° M.			302 Jan 02 j 03:50	9° 8	
	297 Mar 02 j 13:04	0°⊀			302 Mar 06 j 20:30	$\Pi^{\circ}0$	
desc. node	297 Apr 01 j 13:09	11° ∡ 56′07			302 Apr 28 j 09:24	0 \circ \odot	
retrograde	297 May 02 j 12:37	17° ∡ 10′27			302 Jun 17 j 00:39	$0^{\circ}\Omega$	
opposition	297 Jun 03 j 02:42	11° ∡ ³34'43			302 Aug 03 j 13:50	0° m y	
greatest brilliancy	297 Jun 03 j 23:09	11° ∡ 19′28		evening set	302 Aug 18 j 14:28	9° m 46'16	
min. Earth dist.	297 Jun 09 j 20:05	9° ∡ ³34'57	0.41187 AU	max. Earth dist.	302 Sep 07 j 22:22	23° Mp 14'08	2.57923 AU
direct	297 Jul 06 j 23:09	5° ₹ 01'54			302 Sep 17 j 23:26	0∘ ⊽	
	297 Sep 13 j 20:05	0°る 0°≈		conjunction	202 0-+ 04 : 22-10	11° ≏ 37'00	0920146
	297 Oct 29 j 21:20 297 Dec 11 j 16:04	0 ≈ 0° H		minimum elong	302 Oct 04 j 23:19 302 Oct 05 j 00:23	11 ≗ 37 00 11° ≗ 38'50	
	298 Jan 23 j 10:46	0° γ		minimum ciong	302 Oct 31 j 05:15	0°M	0 20 40
asc. node	298 Jan 29 j 22:33	4° Υ 29'46		desc. node	302 Nov 22 j 10:13	15°ML58'17	
ase. node	298 Mar 08 j 07:51	0° 8		morning rise	302 Nov 23 j 10:25	16°M42'19	
	298 Apr 22 j 15:09	0°II		morning rise	302 Dec 11 j 12:35	0° ∡ 7	
evening set	298 Jun 04 j 15:20	27° II 46'23			303 Jan 20 j 08:31	0°⋜	
	298 Jun 08 j 02:52	0ಂತಿ			303 Feb 28 j 08:08	0° ≈	
	,				303 Apr 08 j 07:02	0° ∀	
conjunction	298 Jul 21 j 18:19	27°5649'04	1°08'44		303 May 18 j 06:30	$0^{\circ}\Upsilon$	
minimum elong	298 Jul 21 j 17:56	27° © 48'27	1°08'43		303 Jun 29 j 19:01	9° 8	
max. Earth dist.	298 Jul 21 j 01:09	27° 5 21'44	2.67456 AU		303 Aug 17 j 09:27	$\Pi^{\circ}0$	
	298 Jul 25 j 04:34	$0^{\circ}\Omega$		asc. node	303 Sep 21 j 20:09	16° Ⅲ 30′11	
morning rise	298 Sep 04 j 13:05	26° Ω 24'29		retrograde	303 Oct 26 j 08:44	23° Ⅱ 25′20	
	298 Sep 10 j 03:26	0° m		min. Earth dist.	303 Nov 30 j 13:21	15° Ⅱ 19'46	0.61821 AU
	298 Oct 26 j 11:35	0∘ ত		opposition	303 Dec 05 j 04:57	13° Ⅲ 28′27	2°53'58
	298 Dec 11 j 01:54	0°M		greatest brilliancy	303 Dec 04 j 16:13	13° Ⅱ 41'09	-1.6m
	299 Jan 25 j 02:32	0° ∡ 7		direct	304 Jan 12 j 06:10	4° Ⅱ 34'22	
desc. node	299 Feb 17 j 12:47	15° ₹ 39'23			304 Apr 01 j 04:48	0.ಲ	
	299 Mar 11 j 02:30	0°₹			304 May 26 j 04:29	$0^{\circ}\Omega$	

	304 Jul 14 j 11:38	0° m)		max. Earth dist.	309 May 17 j 10:14	15° 8 22'43	2.50790 AU
	304 Aug 29 j 07:53	0∘ ত		morning rise	309 Jun 03 j 16:39	27° 8 13'08	
evening set	304 Sep 29 j 03:40	21° ≏ 18'27			309 Jun 07 j 19:14	Π $^{\circ}0$	
desc. node	304 Oct 09 j 09:28	28° ≏ 35'19			309 Jul 23 j 07:53	$0 \circ \mathfrak{S}$	
	304 Oct 11 j 08:43	0°M			309 Sep 09 j 05:35	$0^{\circ}\Omega$	
max. Earth dist.	304 Oct 14 j 01:15	1°M56'01	2.46179 AU		309 Oct 30 j 15:21	0° m)	
					310 Jan 01 j 18:07	0∘ ত	
conjunction	304 Nov 21 j 14:34	0° ∡ ¹22'05	-0°27'03	retrograde	310 Feb 11 j 14:34	8° £ 17'17	
minimum elong	304 Nov 21 j 13:03	0° √ 19'12	0°27'02	opposition	310 Mar 20 j 20:57	0° ≙ 05'48	2°59'18
	304 Nov 21 j 02:51	0° ∡ ¹			310 Mar 21 j 03:07	30°R Mp	
	304 Dec 30 j 06:31	ರ∘ರ		greatest brilliancy	310 Mar 21 j 15:16	29° m 48'33	-1.7m
morning rise	305 Jan 21 j 12:54	17° ට 23'27		min. Earth dist.	310 Mar 27 j 14:35	27° m 34'02	0.58606 AU
	305 Feb 06 j 14:30	0° ≈		direct	310 Apr 30 j 11:25	20° m 23'23	
	305 Mar 16 j 23:23	0° ∀		desc. node	310 Jun 01 j 05:55	26° Mp 10'31	
	305 Apr 25 j 06:48	$0^{\circ}\mathbf{\Upsilon}$			310 Jun 11 j 12:12	0∘ ত	
	305 Jun 05 j 10:57	0°8			310 Aug 06 j 00:13	0° M	
	305 Jul 19 j 15:15	$\Pi^{\circ}0$			310 Sep 18 j 17:03	0° ∡ ¹	
asc. node	305 Aug 08 j 19:06	12° Ⅱ 45′06			310 Oct 28 j 18:23	0°ठ	
	305 Sep 07 j 07:07	0°©			310 Dec 06 j 12:58	0° ≈	
retrograde	305 Nov 29 j 13:56	28° © 55'24			311 Jan 14 j 10:26	0° ∀	
opposition	306 Jan 08 j 17:00	19° © 07'58	4°23'06		311 Feb 23 j 10:39	$0^{\circ}\Upsilon$	
min. Earth dist.	306 Jan 07 j 20:54	19° 5 28'06	0.67276 AU	asc. node	311 Mar 31 j 16:28	26° Ƴ 07'17	
greatest brilliancy	306 Jan 08 j 12:43	19° © 12'16	-1.3m	evening set	311 Apr 03 j 10:49	28° Υ 04'16	
direct	306 Feb 18 j 02:13	9°526'24			311 Apr 06 j 04:40	0°8	
	306 Apr 29 j 01:33	0° Ω			311 May 19 j 22:15	0°II	
	306 Jun 23 j 04:31	0° m p			311 11 11 11 13 J 22 .10	~ —	
	306 Aug 09 j 16:05	0∘ <mark>ಹ</mark> ಂ.ಗ		conjunction	311 May 28 j 01:08	5° Ⅱ 25'44	0°32'56
desc. node	306 Aug 27 j 09:21	0 — 11° Ω 57'54		minimum elong	311 May 27 j 23:46		0°32'56
dese. Hode	306 Sep 22 j 02:12	0°M₁		max. Earth dist.	311 Jun 18 j 00:45		2.61384 AU
	306 Nov 01 j 17:42	0°×71		max. Earth dist.	311 Jul 04 j 11:41	0°ම	2.01301710
evening set	306 Nov 23 j 02:07	16° ₹ '21'20		morning rise	311 Jul 16 j 19:39	7°956'58	
evening set	306 Dec 10 j 14:34	0°궁 2120		morning rise	311 Aug 20 j 11:45	0° Ω	
	307 Jan 17 j 15:52	0° ≈			311 Oct 07 j 16:08	0° m)	
	507 Juli 17 j 15.52	0 / 0 .			311 Nov 26 j 12:43	0∘ ಹ ೧.ฬ	
conjunction	307 Jan 26 j 23:42	7°≈21'56	-1°05'11		312 Jan 20 j 00:12	0° ™	
minimum elong	307 Jan 26 j 23:51	7°≈22'14		retrograde	312 Apr 05 j 00:46	23°M59'23	
minimum ciong	307 Feb 24 j 20:16	0° \	1 03 11	desc. node	312 Apr 18 j 05:22	22°M54'15	
max. Earth dist.	307 Mar 03 j 01:25		2.37839 AU	opposition	312 May 08 j 12:45	17°MJ32'21	-1°07'58
max. Lartii dist.	307 Apr 05 j 00:54	0° Υ	2.57057110	greatest brilliancy	312 May 08 j 21:13	17°M25'25	
morning rise	307 Apr 03 J 00.34	0 1		greatest of financy			
morning rise	307 Apr 06 i 21:35	1°₩23'45		min Farth dist			
	307 Apr 06 j 21:35	1° Y 23'45		min. Earth dist.	312 May 16 j 22:26	14° M 47'19	0.46007 AU
asc node	307 May 15 j 23:38	0° 8		min. Earth dist. direct	312 May 16 j 22:26 312 Jun 14 j 06:30	14° ጤ 47'19 9° ጤ 39'39	
asc. node	307 May 15 j 23:38 307 Jun 26 j 17:00	0° ප 28° ප 56'12			312 May 16 j 22:26 312 Jun 14 j 06:30 312 Aug 14 j 11:50	14°M47'19 9°M39'39 0°⊀	
asc. node	307 May 15 j 23:38 307 Jun 26 j 17:00 307 Jun 28 j 06:58	0° 8 28° 8 56'12 0°Ⅱ			312 May 16 j 22:26 312 Jun 14 j 06:30 312 Aug 14 j 11:50 312 Sep 30 j 07:19	14°M47'19 9°M39'39 0°ズ 0°る	
asc. node	307 May 15 j 23:38 307 Jun 26 j 17:00 307 Jun 28 j 06:58 307 Aug 13 j 14:34	0°႘ 28°႘56′12 0°頂 0°໑			312 May 16 j 22:26 312 Jun 14 j 06:30 312 Aug 14 j 11:50 312 Sep 30 j 07:19 312 Nov 10 j 22:52	14°M47'19 9°M39'39 0°♂ 0°♂ 0°≈	
asc. node	307 May 15 j 23:38 307 Jun 26 j 17:00 307 Jun 28 j 06:58 307 Aug 13 j 14:34 307 Oct 03 j 17:21	0°႘ 28°႘56'12 0°Ⅲ 0°ℱ 0°Ω			312 May 16 j 22:26 312 Jun 14 j 06:30 312 Aug 14 j 11:50 312 Sep 30 j 07:19 312 Nov 10 j 22:52 312 Dec 21 j 17:46	14°M47'19 9°M39'39 0°ズ 0°ズ 0°≪ 0°米	
	307 May 15 j 23:38 307 Jun 26 j 17:00 307 Jun 28 j 06:58 307 Aug 13 j 14:34 307 Oct 03 j 17:21 307 Dec 14 j 11:04	0°8 28°85612 0°∏ 0°© 0°Ω 0°M		direct	312 May 16 j 22:26 312 Jun 14 j 06:30 312 Aug 14 j 11:50 312 Sep 30 j 07:19 312 Nov 10 j 22:52 312 Dec 21 j 17:46 313 Feb 01 j 06:12	14°M47'19 9°M39'39 0°ズ 0°云 0°≈ 0°★ 0°भ 0°Υ	
asc. node	307 May 15 j 23:38 307 Jun 26 j 17:00 307 Jun 28 j 06:58 307 Aug 13 j 14:34 307 Oct 03 j 17:21 307 Dec 14 j 11:04 308 Jan 03 j 15:07	0°8 28°856'12 0°11 0°5 0°10 0°10 2°10 17'34			312 May 16 j 22:26 312 Jun 14 j 06:30 312 Aug 14 j 11:50 312 Sep 30 j 07:19 312 Nov 10 j 22:52 312 Dec 21 j 17:46 313 Feb 01 j 06:12 313 Feb 15 j 14:34	14°M47'19 9°M39'39 0°♂ 0°♂ 0°≈ 0°₩ 0°Y 10°Y08'27	
retrograde	307 May 15 j 23:38 307 Jun 26 j 17:00 307 Jun 28 j 06:58 307 Aug 13 j 14:34 307 Oct 03 j 17:21 307 Dec 14 j 11:04 308 Jan 03 j 15:07 308 Jan 22 j 10:50	0°8 28°856'12 0°11 0°5 0°8 0°10 0°10 2°10 17'34 30°88	4°27'44	direct	312 May 16 j 22:26 312 Jun 14 j 06:30 312 Aug 14 j 11:50 312 Sep 30 j 07:19 312 Nov 10 j 22:52 312 Dec 21 j 17:46 313 Feb 01 j 06:12 313 Feb 15 j 14:34 313 Mar 16 j 06:11	14°M47'19 9°M39'39 0°ズ 0°云 0°≈ 0°∀ 10°Y'08'27 0°∀	
retrograde opposition	307 May 15 j 23:38 307 Jun 26 j 17:00 307 Jun 28 j 06:58 307 Aug 13 j 14:34 307 Oct 03 j 17:21 307 Dec 14 j 11:04 308 Jan 03 j 15:07 308 Jan 22 j 10:50 308 Feb 11 j 22:04	0°8 28°856'12 0°11 0°5 0°10 0°10 2°1017'34 30°10 23°105'35		direct asc. node	312 May 16 j 22:26 312 Jun 14 j 06:30 312 Aug 14 j 11:50 312 Sep 30 j 07:19 312 Nov 10 j 22:52 312 Dec 21 j 17:46 313 Feb 01 j 06:12 313 Feb 15 j 14:34 313 Mar 16 j 06:11 313 Apr 29 j 22:40	14°M47'19 9°M39'39 0°ズ 0°ズ 0°※ 0°米 0°Y 10°Y08'27 0°B 0°H	
retrograde opposition greatest brilliancy	307 May 15 j 23:38 307 Jun 26 j 17:00 307 Jun 28 j 06:58 307 Aug 13 j 14:34 307 Oct 03 j 17:21 307 Dec 14 j 11:04 308 Jan 03 j 15:07 308 Jan 22 j 10:50 308 Feb 11 j 22:04 308 Feb 12 j 08:44	0°8 28°856'12 0°11 0°5 0°10 0°10 2°10 2°10 2°10 30°13 23°105'35 22°155'05	-1.3m	direct	312 May 16 j 22:26 312 Jun 14 j 06:30 312 Aug 14 j 11:50 312 Sep 30 j 07:19 312 Nov 10 j 22:52 312 Dec 21 j 17:46 313 Feb 01 j 06:12 313 Feb 15 j 14:34 313 Mar 16 j 06:11 313 Apr 29 j 22:40 313 May 19 j 16:19	14°M47'19 9°M39'39 0°ズ 0°ズ 0°※ 0°米 0°Y 10°Y08'27 0°႘ 0°Ⅱ 12°Ⅱ56'07	
retrograde opposition greatest brilliancy min. Earth dist.	307 May 15 j 23:38 307 Jun 26 j 17:00 307 Jun 28 j 06:58 307 Aug 13 j 14:34 307 Oct 03 j 17:21 307 Dec 14 j 11:04 308 Jan 03 j 15:07 308 Jan 22 j 10:50 308 Feb 11 j 22:04 308 Feb 12 j 08:44 308 Feb 14 j 23:14	0°8 28°856'12 0°11 0°50 0°10 0°10 2°10 17'34 30°13 23°105'35 22°155'05 21°153'35		direct asc. node	312 May 16 j 22:26 312 Jun 14 j 06:30 312 Aug 14 j 11:50 312 Sep 30 j 07:19 312 Nov 10 j 22:52 312 Dec 21 j 17:46 313 Feb 01 j 06:12 313 Feb 15 j 14:34 313 Mar 16 j 06:11 313 Apr 29 j 22:40	14°M47'19 9°M39'39 0°ズ 0°ズ 0°※ 0°米 0°Y 10°Y08'27 0°B 0°H	
retrograde opposition greatest brilliancy	307 May 15 j 23:38 307 Jun 26 j 17:00 307 Jun 28 j 06:58 307 Aug 13 j 14:34 307 Oct 03 j 17:21 307 Dec 14 j 11:04 308 Jan 03 j 15:07 308 Jan 22 j 10:50 308 Feb 11 j 22:04 308 Feb 12 j 08:44 308 Feb 14 j 23:14 308 Mar 24 j 06:34	0°8 28°856'12 0°11 0°5 0°10 0°10 2°10 17'34 30°10 23°105'35 22°1055'05 21°1053'35 13°104'20	-1.3m	asc. node	312 May 16 j 22:26 312 Jun 14 j 06:30 312 Aug 14 j 11:50 312 Sep 30 j 07:19 312 Nov 10 j 22:52 312 Dec 21 j 17:46 313 Feb 01 j 06:12 313 Feb 15 j 14:34 313 Mar 16 j 06:11 313 Apr 29 j 22:40 313 May 19 j 16:19 313 Jun 15 j 01:16	14°M47'19 9°M39'39 0°ズ 0°云 0°≈ 0°米 0°Y 10°Y08'27 0°Ы 12°I56'07 0°©	0.46007 AU
retrograde opposition greatest brilliancy min. Earth dist. direct	307 May 15 j 23:38 307 Jun 26 j 17:00 307 Jun 28 j 06:58 307 Aug 13 j 14:34 307 Oct 03 j 17:21 307 Dec 14 j 11:04 308 Jan 03 j 15:07 308 Jan 22 j 10:50 308 Feb 11 j 22:04 308 Feb 12 j 08:44 308 Feb 14 j 23:14 308 Mar 24 j 06:34 308 May 24 j 02:00	0°8 28°856'12 0°11 0°50 0°10 0°10 2°10,17'34 30°10 23°105'35 22°105'05 21°1053'35 13°104'20 0°10	-1.3m	asc. node evening set conjunction	312 May 16 j 22:26 312 Jun 14 j 06:30 312 Aug 14 j 11:50 312 Sep 30 j 07:19 312 Nov 10 j 22:52 312 Dec 21 j 17:46 313 Feb 01 j 06:12 313 Feb 15 j 14:34 313 Mar 16 j 06:11 313 Apr 29 j 22:40 313 May 19 j 16:19 313 Jun 15 j 01:16	14°M47'19 9°M39'39 0°ズ 0°云 0°≈ 0°米 0°Y 10°Y08'27 0°Ы 12°I56'07 0°©	0.46007 AU 1°04'04
retrograde opposition greatest brilliancy min. Earth dist.	307 May 15 j 23:38 307 Jun 26 j 17:00 307 Jun 28 j 06:58 307 Aug 13 j 14:34 307 Oct 03 j 17:21 307 Dec 14 j 11:04 308 Jan 03 j 15:07 308 Jan 22 j 10:50 308 Feb 11 j 22:04 308 Feb 12 j 08:44 308 Feb 14 j 23:14 308 Mar 24 j 06:34 308 May 24 j 02:00 308 Jul 14 j 07:43	0°8 28°856'12 0°11 0°5 0°10 0°10 2°10,17'34 30°10 23°10,05'35 22°10,55'05 21°10,53'35 13°10,04'20 0°10 28°10,14'00	-1.3m	asc. node evening set conjunction minimum elong	312 May 16 j 22:26 312 Jun 14 j 06:30 312 Aug 14 j 11:50 312 Sep 30 j 07:19 312 Nov 10 j 22:52 312 Dec 21 j 17:46 313 Feb 01 j 06:12 313 Feb 15 j 14:34 313 Mar 16 j 06:11 313 Apr 29 j 22:40 313 May 19 j 16:19 313 Jun 15 j 01:16 313 Jul 07 j 03:43 313 Jul 07 j 02:49	14°M47'19 9°M39'39 0°ズ 0°云 0°云 0°云 0°भ 10°Y08'27 0°Ы 12°I56'07 0°亞 14°©09'55 14°©08'28	0.46007 AU 1°04'04 1°04'03
retrograde opposition greatest brilliancy min. Earth dist. direct	307 May 15 j 23:38 307 Jun 26 j 17:00 307 Jun 28 j 06:58 307 Aug 13 j 14:34 307 Oct 03 j 17:21 307 Dec 14 j 11:04 308 Jan 03 j 15:07 308 Jan 22 j 10:50 308 Feb 11 j 22:04 308 Feb 12 j 08:44 308 Feb 14 j 23:14 308 Mar 24 j 06:34 308 May 24 j 02:00 308 Jul 14 j 07:43 308 Jul 17 j 04:06	0°8 28°856'12 0°11 0°50 0°10 0°10 2°1017'34 30°13 23°105'35 22°15'05 21°15'35'35 13°104'20 0°10 28°1014'00 0°5	-1.3m	asc. node evening set conjunction	312 May 16 j 22:26 312 Jun 14 j 06:30 312 Aug 14 j 11:50 312 Sep 30 j 07:19 312 Nov 10 j 22:52 312 Dec 21 j 17:46 313 Feb 01 j 06:12 313 Feb 15 j 14:34 313 Mar 16 j 06:11 313 Apr 29 j 22:40 313 May 19 j 16:19 313 Jun 15 j 01:16 313 Jul 07 j 03:43 313 Jul 07 j 02:49 313 Jul 11 j 20:46	14°M47'19 9°M39'39 0°ズ 0°云 0°云 0°☆ 0°Y 10°Y08'27 0°Ы 12°H56'07 0°亞 14°至09'55 14°至09'55 14°至08'28 17°至10'27	0.46007 AU 1°04'04
retrograde opposition greatest brilliancy min. Earth dist. direct	307 May 15 j 23:38 307 Jun 26 j 17:00 307 Jun 28 j 06:58 307 Aug 13 j 14:34 307 Oct 03 j 17:21 307 Dec 14 j 11:04 308 Jan 03 j 15:07 308 Jan 22 j 10:50 308 Feb 11 j 22:04 308 Feb 12 j 08:44 308 Feb 14 j 23:14 308 Mar 24 j 06:34 308 May 24 j 02:00 308 Jul 14 j 07:43 308 Jul 17 j 04:06 308 Aug 31 j 07:57	0°8 28°856'12 0°11 0°56 0°10 0°10 2°1017'34 30°135 23°105'35 22°155'05 21°153'35 13°104'20 0°10 28°1014'00 0°10 0°11	-1.3m	asc. node evening set conjunction minimum elong max. Earth dist.	312 May 16 j 22:26 312 Jun 14 j 06:30 312 Aug 14 j 11:50 312 Sep 30 j 07:19 312 Nov 10 j 22:52 312 Dec 21 j 17:46 313 Feb 01 j 06:12 313 Feb 15 j 14:34 313 Mar 16 j 06:11 313 Apr 29 j 22:40 313 May 19 j 16:19 313 Jun 15 j 01:16 313 Jul 07 j 03:43 313 Jul 07 j 02:49 313 Jul 11 j 20:46 313 Jul 31 j 23:46	14°M47'19 9°M39'39 0°ズ 0°云 0°云 0°云 0°子 10°Y08'27 0°召 0°Ⅱ 12°Ⅱ56'07 0°亞 14°ᢒ09'55 14°ᢒ08'28 17°ᢒ10'27 0°ብ	0.46007 AU 1°04'04 1°04'03
retrograde opposition greatest brilliancy min. Earth dist. direct	307 May 15 j 23:38 307 Jun 26 j 17:00 307 Jun 28 j 06:58 307 Aug 13 j 14:34 307 Oct 03 j 17:21 307 Dec 14 j 11:04 308 Jan 03 j 15:07 308 Jan 22 j 10:50 308 Feb 11 j 22:04 308 Feb 12 j 08:44 308 Feb 14 j 23:14 308 Mar 24 j 06:34 308 May 24 j 02:00 308 Jul 14 j 07:43 308 Jul 17 j 04:06 308 Aug 31 j 07:57 308 Oct 11 j 12:01	0°8 28°856'12 0°¶ 0°\$ 0°\$ 0°\$ 0°\$ 2°\$\p17'34 30°\$\$ 23°\$\O5'35 22°\$\S5'05 21°\$\S3'35 13°\$\O4'20 0°\$\p28°\$\p14'00 0°\$\p28\$ 0°\$\mathred{m}	-1.3m	asc. node evening set conjunction minimum elong	312 May 16 j 22:26 312 Jun 14 j 06:30 312 Aug 14 j 11:50 312 Sep 30 j 07:19 312 Nov 10 j 22:52 312 Dec 21 j 17:46 313 Feb 01 j 06:12 313 Feb 15 j 14:34 313 Mar 16 j 06:11 313 Apr 29 j 22:40 313 May 19 j 16:19 313 Jul 07 j 03:43 313 Jul 07 j 02:49 313 Jul 11 j 20:46 313 Jul 31 j 23:46 313 Aug 21 j 16:05	14°M47'19 9°M39'39 0°ズ 0°云 0°云 0°云 0°子 10°Y08'27 0°日 12°I56'07 0°⑤ 14°⑤08'28 17°⑤10'27 0°Ω 13°Ω09'41	0.46007 AU 1°04'04 1°04'03
retrograde opposition greatest brilliancy min. Earth dist. direct	307 May 15 j 23:38 307 Jun 26 j 17:00 307 Jun 28 j 06:58 307 Aug 13 j 14:34 307 Oct 03 j 17:21 307 Dec 14 j 11:04 308 Jan 03 j 15:07 308 Jan 22 j 10:50 308 Feb 11 j 22:04 308 Feb 12 j 08:44 308 Feb 14 j 23:14 308 Mar 24 j 06:34 308 May 24 j 02:00 308 Jul 14 j 07:43 308 Jul 17 j 04:06 308 Aug 31 j 07:57 308 Oct 11 j 12:01 308 Nov 19 j 12:19	0°8 28°856'12 0° II 0° © 0° Ω 0° M 2° M 17'34 30° R Ω 23° Ω 05'35 22° Ω 55'05 21° Ω 53'35 13° Ω 04'20 0° M 28° M 14'00 0° Ω 0° IL 0° ズ 0° IL	-1.3m	asc. node evening set conjunction minimum elong max. Earth dist.	312 May 16 j 22:26 312 Jun 14 j 06:30 312 Aug 14 j 11:50 312 Sep 30 j 07:19 312 Nov 10 j 22:52 312 Dec 21 j 17:46 313 Feb 01 j 06:12 313 Feb 15 j 14:34 313 Mar 16 j 06:11 313 Apr 29 j 22:40 313 May 19 j 16:19 313 Jul 07 j 03:43 313 Jul 07 j 02:49 313 Jul 11 j 20:46 313 Jul 31 j 23:46 313 Aug 21 j 16:05 313 Sep 17 j 02:33	14°M47'19 9°M39'39 0°ズ 0°♂ 0°% 0°% 0°Y 10°Y08'27 0°B 12°I56'07 0°© 14°©09'55 14°©08'28 17°©10'27 0°Ω 13°Ω09'41 0°™	0.46007 AU 1°04'04 1°04'03
retrograde opposition greatest brilliancy min. Earth dist. direct desc. node	307 May 15 j 23:38 307 Jun 26 j 17:00 307 Jun 28 j 06:58 307 Aug 13 j 14:34 307 Oct 03 j 17:21 307 Dec 14 j 11:04 308 Jan 03 j 15:07 308 Jan 22 j 10:50 308 Feb 11 j 22:04 308 Feb 12 j 08:44 308 Feb 14 j 23:14 308 May 24 j 06:34 308 May 24 j 02:00 308 Jul 14 j 07:43 308 Jul 17 j 04:06 308 Aug 31 j 07:57 308 Oct 11 j 12:01 308 Nov 19 j 12:19 308 Dec 27 j 15:20	0°8 28°856'12 0°11 0°5 0°10 0°10 0°10 2°10 17'34 30°81 23°105'35 22°105'35 22°155'05 21°153'35 13°104'20 0°10 28°10 14'00 0°5 0°11 0°17 0°15 0°18	-1.3m	asc. node evening set conjunction minimum elong max. Earth dist.	312 May 16 j 22:26 312 Jun 14 j 06:30 312 Aug 14 j 11:50 312 Sep 30 j 07:19 312 Nov 10 j 22:52 312 Dec 21 j 17:46 313 Feb 01 j 06:12 313 Feb 15 j 14:34 313 Mar 16 j 06:11 313 Apr 29 j 22:40 313 May 19 j 16:19 313 Jun 15 j 01:16 313 Jul 07 j 03:43 313 Jul 07 j 02:49 313 Jul 11 j 20:46 313 Jul 31 j 23:46 313 Aug 21 j 16:05 313 Sep 17 j 02:33 313 Nov 03 j 00:26	14°M.47'19 9°M.39'39 0° ₹ 0°♥ 0°♥ 0°♥ 10°♥08'27 0°♥ 12°M.56'07 0°© 14°©09'55 14°©08'28 17°©10'27 0°Ω 13°Ω09'41 0°™ 0°Ф	0.46007 AU 1°04'04 1°04'03
retrograde opposition greatest brilliancy min. Earth dist. direct	307 May 15 j 23:38 307 Jun 26 j 17:00 307 Jun 28 j 06:58 307 Aug 13 j 14:34 307 Oct 03 j 17:21 307 Dec 14 j 11:04 308 Jan 03 j 15:07 308 Jan 22 j 10:50 308 Feb 11 j 22:04 308 Feb 12 j 08:44 308 Feb 14 j 23:14 308 May 24 j 02:00 308 Jul 14 j 07:43 308 Jul 17 j 04:06 308 Aug 31 j 07:57 308 Oct 11 j 12:01 308 Nov 19 j 12:19 308 Dec 27 j 15:20 309 Jan 31 j 05:14	0°8 28°856'12 0°11 0°5 0°10 0°10 0°10 2°10 17'34 30°81 23°105'35 22°155'05 21°153'35 13°104'20 0°10 28°10 14'00 0°5 0°11 0°3° 0°5 0°5 27°≈06'16	-1.3m	asc. node evening set conjunction minimum elong max. Earth dist.	312 May 16 j 22:26 312 Jun 14 j 06:30 312 Aug 14 j 11:50 312 Sep 30 j 07:19 312 Nov 10 j 22:52 312 Dec 21 j 17:46 313 Feb 01 j 06:12 313 Feb 15 j 14:34 313 Mar 16 j 06:11 313 Apr 29 j 22:40 313 May 19 j 16:19 313 Jun 15 j 01:16 313 Jul 07 j 03:43 313 Jul 07 j 02:49 313 Jul 11 j 20:46 313 Jul 31 j 23:46 313 Aug 21 j 16:05 313 Sep 17 j 02:33 313 Nov 03 j 00:26 313 Dec 19 j 18:35	14°M47'19 9°M39'39 0°ズ 0°云 0°※ 0°∀ 10°Y'08'27 0°℧ 0°Ⅱ 12°Ⅱ56'07 0°郖 14°೨09'55 14°೨09'55 14°೨08'28 17°೨10'27 0°Д 13°Д09'41 0°М 0°Д	0.46007 AU 1°04'04 1°04'03
retrograde opposition greatest brilliancy min. Earth dist. direct desc. node	307 May 15 j 23:38 307 Jun 26 j 17:00 307 Jun 28 j 06:58 307 Aug 13 j 14:34 307 Oct 03 j 17:21 307 Dec 14 j 11:04 308 Jan 03 j 15:07 308 Jan 22 j 10:50 308 Feb 11 j 22:04 308 Feb 12 j 08:44 308 Feb 14 j 23:14 308 May 24 j 02:00 308 Jul 14 j 07:43 308 Jul 17 j 04:06 308 Aug 31 j 07:57 308 Oct 11 j 12:01 308 Nov 19 j 12:19 308 Dec 27 j 15:20 309 Jan 31 j 05:14 309 Feb 03 j 22:49	0°\begin{align*} 28°\begin{align*} 56'12 0°\T 0°\T 0°\T 0°\T 0°\T 2°\T\17'34 30°\R\23°\R\05'35 22°\R\55'05 21°\R\53'35 13°\R\04'20 0°\T 0°\T 0°\T 0°\T 0°\T 0°\T 0°\T 0°\	-1.3m	asc. node evening set conjunction minimum elong max. Earth dist. morning rise	312 May 16 j 22:26 312 Jun 14 j 06:30 312 Aug 14 j 11:50 312 Sep 30 j 07:19 312 Nov 10 j 22:52 312 Dec 21 j 17:46 313 Feb 01 j 06:12 313 Feb 15 j 14:34 313 Mar 16 j 06:11 313 Apr 29 j 22:40 313 May 19 j 16:19 313 Jun 15 j 01:16 313 Jul 07 j 03:43 313 Jul 07 j 02:49 313 Jul 11 j 20:46 313 Jul 31 j 23:46 313 Aug 21 j 16:05 313 Sep 17 j 02:33 313 Nov 03 j 00:26 313 Dec 19 j 18:35 314 Feb 04 j 22:46	14°M47'19 9°M39'39 0°ズ 0°云 0°※ 0°∀ 10°Y08'27 0°Ы 12°I56'07 0°© 14°©09'55 14°©09'55 14°©08'28 17°©10'27 0°Ω 13°Ω09'41 0°™ 0°Ω 0°M 0°Ω	0.46007 AU 1°04'04 1°04'03
retrograde opposition greatest brilliancy min. Earth dist. direct desc. node	307 May 15 j 23:38 307 Jun 26 j 17:00 307 Jun 28 j 06:58 307 Aug 13 j 14:34 307 Oct 03 j 17:21 307 Dec 14 j 11:04 308 Jan 03 j 15:07 308 Jan 22 j 10:50 308 Feb 11 j 22:04 308 Feb 12 j 08:44 308 Feb 14 j 23:14 308 May 24 j 02:00 308 Jul 14 j 07:43 308 Jul 17 j 04:06 308 Aug 31 j 07:57 308 Oct 11 j 12:01 308 Nov 19 j 12:19 308 Dec 27 j 15:20 309 Jan 31 j 05:14	0°8 28°856'12 0°11 0°5 0°10 0°10 0°10 2°10 17'34 30°81 23°105'35 22°155'05 21°153'35 13°104'20 0°10 28°10 14'00 0°5 0°11 0°3° 0°5 0°5 27°≈06'16	-1.3m	asc. node evening set conjunction minimum elong max. Earth dist.	312 May 16 j 22:26 312 Jun 14 j 06:30 312 Aug 14 j 11:50 312 Sep 30 j 07:19 312 Nov 10 j 22:52 312 Dec 21 j 17:46 313 Feb 01 j 06:12 313 Feb 15 j 14:34 313 Mar 16 j 06:11 313 Apr 29 j 22:40 313 May 19 j 16:19 313 Jun 15 j 01:16 313 Jul 07 j 03:43 313 Jul 07 j 02:49 313 Jul 11 j 20:46 313 Jul 31 j 23:46 313 Aug 21 j 16:05 313 Sep 17 j 02:33 313 Nov 03 j 00:26 313 Dec 19 j 18:35 314 Feb 04 j 22:46 314 Mar 06 j 04:35	14°M47'19 9°M39'39 0°ズ 0°云 0°※ 0°光 0°Y 10°Y08'27 0°℧ 0°Ⅱ 12°Ⅱ56'07 0°፵ 14°©09'55 14°©08'28 17°©10'27 0°Ω 13°Ω09'41 0°™ 0°乒 0°™ 0°ズ 18°ズ04'10	0.46007 AU 1°04'04 1°04'03
retrograde opposition greatest brilliancy min. Earth dist. direct desc. node	307 May 15 j 23:38 307 Jun 26 j 17:00 307 Jun 28 j 06:58 307 Aug 13 j 14:34 307 Oct 03 j 17:21 307 Dec 14 j 11:04 308 Jan 03 j 15:07 308 Jan 22 j 10:50 308 Feb 11 j 22:04 308 Feb 12 j 08:44 308 Feb 14 j 23:14 308 Mar 24 j 06:34 308 May 24 j 02:00 308 Jul 14 j 07:43 308 Jul 17 j 04:06 308 Aug 31 j 07:57 308 Oct 11 j 12:01 308 Nov 19 j 12:19 308 Dec 27 j 15:20 309 Jan 31 j 05:14 309 Feb 03 j 22:49 309 Mar 15 j 08:29	0°8 28°856'12 0°	-1.3m 0.66196 AU	asc. node evening set conjunction minimum elong max. Earth dist. morning rise	312 May 16 j 22:26 312 Jun 14 j 06:30 312 Aug 14 j 11:50 312 Sep 30 j 07:19 312 Nov 10 j 22:52 312 Dec 21 j 17:46 313 Feb 01 j 06:12 313 Feb 15 j 14:34 313 Mar 16 j 06:11 313 Apr 29 j 22:40 313 May 19 j 16:19 313 Jul 07 j 03:43 313 Jul 07 j 03:43 313 Jul 07 j 02:49 313 Jul 11 j 20:46 313 Jul 31 j 23:46 313 Aug 21 j 16:05 313 Sep 17 j 02:33 313 Nov 03 j 00:26 313 Dec 19 j 18:35 314 Feb 04 j 22:46 314 Mar 06 j 04:35 314 Mar 26 j 08:27	14°M47'19 9°M39'39 0°ズ 0°云 0°※ 0°光 0°Y 10°Y08'27 0°℧ 0°Ⅱ 12°Ⅱ56'07 0°亞 14°亞09'55 14°亞09'55 14°亞08'28 17°亞10'27 0°凡 13°Д09'41 0°№ 0°丘 18°ズ04'10	0.46007 AU 1°04'04 1°04'03
retrograde opposition greatest brilliancy min. Earth dist. direct desc. node evening set	307 May 15 j 23:38 307 Jun 26 j 17:00 307 Jun 28 j 06:58 307 Aug 13 j 14:34 307 Oct 03 j 17:21 307 Dec 14 j 11:04 308 Jan 03 j 15:07 308 Jan 22 j 10:50 308 Feb 11 j 22:04 308 Feb 12 j 08:44 308 Feb 14 j 23:14 308 Mar 24 j 06:34 308 May 24 j 02:00 308 Jul 14 j 07:43 308 Jul 17 j 04:06 308 Aug 31 j 07:57 308 Oct 11 j 12:01 308 Nov 19 j 12:19 308 Dec 27 j 15:20 309 Jan 31 j 05:14 309 Feb 03 j 22:49 309 Apr 05 j 19:40	0°8 28°856'12 0°	-1.3m 0.66196 AU -0°23'23	asc. node evening set conjunction minimum elong max. Earth dist. morning rise	312 May 16 j 22:26 312 Jun 14 j 06:30 312 Aug 14 j 11:50 312 Sep 30 j 07:19 312 Nov 10 j 22:52 312 Dec 21 j 17:46 313 Feb 01 j 06:12 313 Feb 15 j 14:34 313 Mar 16 j 06:11 313 Apr 29 j 22:40 313 May 19 j 16:19 313 Jul 07 j 03:43 313 Jul 07 j 02:49 313 Jul 11 j 20:46 313 Jul 31 j 23:46 313 Aug 21 j 16:05 313 Sep 17 j 02:33 313 Nov 03 j 00:26 313 Dec 19 j 18:35 314 Feb 04 j 22:46 314 Mar 06 j 04:35 314 Mar 26 j 08:27 314 May 30 j 23:15	14°M47'19 9°M39'39 0°ズ 0°る 0°% 0°Y 10°Y08'27 0°8 0°I 12°I56'07 0°9 14°909'55 14°908'28 17°910'27 0°ん 13°ん09'41 0°M 0°エ 0°M 0°ズ 18°ズ04'10	0.46007 AU 1°04'04 1°04'03
retrograde opposition greatest brilliancy min. Earth dist. direct desc. node	307 May 15 j 23:38 307 Jun 26 j 17:00 307 Jun 28 j 06:58 307 Aug 13 j 14:34 307 Oct 03 j 17:21 307 Dec 14 j 11:04 308 Jan 03 j 15:07 308 Jan 22 j 10:50 308 Feb 11 j 22:04 308 Feb 12 j 08:44 308 Feb 12 j 08:44 308 Mar 24 j 06:34 308 Mar 24 j 06:34 308 May 24 j 02:00 308 Jul 14 j 07:43 308 Jul 17 j 04:06 308 Aug 31 j 07:57 308 Oct 11 j 12:01 308 Nov 19 j 12:19 308 Dec 27 j 15:20 309 Jan 31 j 05:14 309 Feb 03 j 22:49 309 Apr 05 j 19:40 309 Apr 05 j 19:40 309 Apr 05 j 21:17	0°8 28°856'12 0°¶ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 2°\$\p17'34 30°\$\lambda 23°\$\lambda05'35 22°\$\lambda53'35 13°\$\lambda04'20 0°\$\p\ 28°\$\p14'00 0°\$\p\ 0°\$\mathred 0°\$\mathred 0°\$\mathred 27°\$\sigma06'16 0°\$\mathred 0°\$\mathred 15°\$\mathred 49'44 15°\$\mathred 52'42'42	-1.3m 0.66196 AU -0°23'23	asc. node evening set conjunction minimum elong max. Earth dist. morning rise	312 May 16 j 22:26 312 Jun 14 j 06:30 312 Aug 14 j 11:50 312 Sep 30 j 07:19 312 Nov 10 j 22:52 312 Dec 21 j 17:46 313 Feb 01 j 06:12 313 Feb 15 j 14:34 313 Mar 16 j 06:11 313 Apr 29 j 22:40 313 May 19 j 16:19 313 Jul 07 j 03:43 313 Jul 07 j 02:49 313 Jul 11 j 20:46 313 Jul 31 j 23:46 313 Aug 21 j 16:05 313 Sep 17 j 02:33 313 Nov 03 j 00:26 313 Dec 19 j 18:35 314 Feb 04 j 22:46 314 Mar 06 j 04:35 314 May 30 j 23:15 314 Jun 21 j 08:36	14°M.47'19 9°M.39'39 0°ズ 0°云 0°※ 0°分 0°% 0°Y 10°Y08'27 0°ᢒ 112°H.56'07 0°ᢒ 14°ᢒ08'28 17°ᢒ10'27 0°ん 13°ん09'41 0°か 0°ふ 18°ズ04'10 0°云 0°※ 2°≈48'54	0.46007 AU 1°04'04 1°04'03
retrograde opposition greatest brilliancy min. Earth dist. direct desc. node evening set	307 May 15 j 23:38 307 Jun 26 j 17:00 307 Jun 28 j 06:58 307 Aug 13 j 14:34 307 Oct 03 j 17:21 307 Dec 14 j 11:04 308 Jan 03 j 15:07 308 Jan 22 j 10:50 308 Feb 11 j 22:04 308 Feb 12 j 08:44 308 Feb 14 j 23:14 308 Mar 24 j 06:34 308 May 24 j 02:00 308 Jul 14 j 07:43 308 Jul 17 j 04:06 308 Aug 31 j 07:57 308 Oct 11 j 12:01 308 Nov 19 j 12:19 308 Dec 27 j 15:20 309 Jan 31 j 05:14 309 Feb 03 j 22:49 309 Apr 05 j 19:40	0°8 28°856'12 0°	-1.3m 0.66196 AU -0°23'23	asc. node evening set conjunction minimum elong max. Earth dist. morning rise	312 May 16 j 22:26 312 Jun 14 j 06:30 312 Aug 14 j 11:50 312 Sep 30 j 07:19 312 Nov 10 j 22:52 312 Dec 21 j 17:46 313 Feb 01 j 06:12 313 Feb 15 j 14:34 313 Mar 16 j 06:11 313 Apr 29 j 22:40 313 May 19 j 16:19 313 Jul 07 j 03:43 313 Jul 07 j 02:49 313 Jul 11 j 20:46 313 Jul 31 j 23:46 313 Aug 21 j 16:05 313 Sep 17 j 02:33 313 Nov 03 j 00:26 313 Dec 19 j 18:35 314 Feb 04 j 22:46 314 Mar 06 j 04:35 314 Mar 26 j 08:27 314 May 30 j 23:15	14°M47'19 9°M39'39 0°ズ 0°る 0°% 0°Y 10°Y08'27 0°8 0°I 12°I56'07 0°9 14°909'55 14°908'28 17°910'27 0°ん 13°ん09'41 0°M 0°エ 0°M 0°ズ 18°ズ04'10	1°04'04 1°04'03 2.66812 AU

	21471 21:07.02	250751110	0.05416.444		210.0	0.0144	
min. Earth dist.	314 Jul 21 j 07:02		0.37416 AU		319 Oct 19 j 11:31	0°M	
greatest brilliancy	314 Jul 21 j 13:37	27° る 47'28	-2.9m	desc. node	319 Oct 27 j 01:53	5°M27'43	
direct	314 Aug 20 j 10:31	22° る 49'41			210 N 01 : 22-20	9° ™ 42'23	0902144
	314 Sep 23 j 23:26 314 Nov 20 j 11:03	0° ≈ 0° ∀		conjunction minimum elong	319 Nov 01 j 22:28 319 Nov 01 j 22:17	9°11L42'23	
asc. node	314 Nov 20 j 11.03 315 Jan 03 j 13:17	0 X 27° ¥ 49'33		behind sun begin	319 Nov 01 j 22.17 319 Nov 01 j 00:34	9°M02'37	0 03 44
asc. Houc	315 Jan 06 j 22:08	27 γ (4933		behind sun end	319 Nov 02 j 20:00	10°M21'34	
	315 Feb 22 j 06:25	0°8		ocimia sun cha	319 Nov 29 j 10:09	10 llG21 34 0° ⊼	
	315 Apr 10 j 00:35	0°II		morning rise	319 Dec 27 j 07:58	21° х 10'10	
	315 May 27 j 08:32	0°ಅ		morning rise	320 Jan 07 j 19:12	0°පි	
evening set	315 Jun 28 j 05:44	20°508'33			320 Feb 15 j 08:05	0° ≈	
	315 Jul 13 j 19:14	0°N			320 Mar 24 j 20:40	0°) €	
max. Earth dist.	315 Aug 04 j 05:57		2.66779 AU		320 May 03 j 07:25	0° Υ	
					320 Jun 13 j 18:08	0°8	
conjunction	315 Aug 13 j 04:28	19° Ω 22'36	1°07'51		320 Jul 28 j 18:57	0° I I	
minimum elong	315 Aug 13 j 04:57	19° £ 23′23		asc. node	320 Aug 25 j 10:05	16° Ⅲ 30′28	
	315 Aug 29 j 16:24	0° m)			320 Sep 20 j 07:57	0°ಅ	
morning rise	315 Sep 26 j 18:44	18° m) 18'36		retrograde	320 Nov 16 j 04:42	15° © 52'03	
	315 Oct 14 j 11:16	0∘ ⊽		min. Earth dist.	320 Dec 24 j 00:35	6° 9 53'31	0.65902 AU
	315 Nov 27 j 22:18	0° M ₊		opposition	320 Dec 26 j 08:56	5° © 56'58	3°59'43
	316 Jan 10 j 02:40	0°⊀		greatest brilliancy	320 Dec 25 j 23:50	6°906'06	-1.4m
desc. node	316 Jan 22 j 03:33	8° ∡ 30′08			321 Jan 11 j 18:07	30° ₹Ⅱ	
	316 Feb 21 j 06:36	ರ∘ರ		direct	321 Feb 04 j 00:28	26° Ⅲ 30′22	
	316 Apr 02 j 23:38	0° ≈			321 Mar 01 j 09:44	0ංම	
	316 May 15 j 15:10	0° ∀			321 May 10 j 16:29	0 $^{\circ}$ Ω	
	316 Jul 02 j 20:24	$\mathbf{\gamma}_0$			321 Jul 01 j 13:55	0° m p	
retrograde	316 Aug 27 j 01:16	17° Y 26′04			321 Aug 17 j 05:34	0∘ ত	
min. Earth dist.	316 Sep 23 j 23:03	12° Y 05'49	0.45510 AU	desc. node	321 Sep 13 j 00:38	18° ≏ 21'42	
greatest brilliancy	316 Oct 01 j 07:38	9° Ƴ 33'03	-2.4m		321 Sep 29 j 10:38	0°M₊	
opposition	316 Oct 02 j 01:05	9° Ƴ 17'53	-2°41'37	evening set	321 Oct 30 j 14:54	22°M51'51	
direct	316 Nov 03 j 13:57	2° Y 41'51			321 Nov 09 j 02:32	0° ∡	
asc. node	316 Nov 20 j 13:01	4° Y 28'59		max. Earth dist.	321 Nov 28 j 17:03	14° ∡ 58′27	2.38725 AU
	317 Jan 22 j 19:49	0° 8			321 Dec 18 j 01:30	0°₹	
	317 Mar 17 j 07:00	0° Ⅱ			221 D 20:20.22	0071406	0050115
	317 May 06 j 11:53	0°©		conjunction	321 Dec 29 j 20:22	9° る 14'06	
	317 Jun 24 j 05:43	0°Ω 25°Ω35'01		minimum elong	321 Dec 29 j 18:05	9° る 09'37	0°58'14
evening set	317 Aug 03 j 15:05	25° Ω 35'01			322 Jan 25 j 04:48	0° ≈ 0° ∀	
may Earth dist	317 Aug 10 j 11:26	0°M) 11°m-21'41	2 61 41 0 ATT	marning rica	322 Mar 04 j 10:06	3° ∺ 26'46	
max. Earth dist.	317 Aug 27 j 21:42	11 111/2141	2.61418 AU	morning rise	322 Mar 08 j 20:33 322 Apr 12 j 14:28	3 π2040 0° Υ	
conjunction	317 Sep 18 j 22:32	25° m 59'23	0°44'52		322 Apr 12 j 14:28 322 May 23 j 13:11	0°8	
minimum elong	317 Sep 18 j 22:32	26° Mp 01'29	0°44'52		322 Jul 06 j 00:09	0°II	
minimum ciong	317 Sep 16 j 25:48 317 Sep 24 j 21:32	ე∘ <u>ი</u>	0 44 32	asc. node	322 Jul 13 j 09:56	4° ∏ 54'20	
morning rise	317 Nov 05 j 01:28	28° ≏ 22'24		use. Houe	322 Aug 22 j 01:15	0°95	
morning not	317 Nov 07 j 08:53	0°M			322 Oct 15 j 08:53	$0^{\circ}\Omega$	
desc. node	317 Dec 09 j 03:14	22°M45'45		retrograde	322 Dec 20 j 17:42	19° Ω 28'46	
	317 Dec 19 j 00:56	0° ∡ ¹		opposition	323 Jan 29 j 11:43	10° Ω 00'15	4°35'30
	318 Jan 28 j 06:51	0°ठ		greatest brilliancy	323 Jan 29 j 16:32	9° Ω 55'27	-1.3m
	318 Mar 08 j 16:35	0° ≈		min. Earth dist.	323 Jan 31 j 00:28	9° Ω 23'44	0.67403 AU
	318 Apr 17 j 01:49	0°) €		direct	323 Mar 11 j 15:29	0° Ω 03'14	
	318 May 27 j 16:02	0° Υ			323 Jun 06 j 23:28	0° m	
	318 Jul 10 j 16:06	0°8			323 Jul 27 j 05:02	0∘ ত	
	318 Sep 04 j 18:40	Π $^{\circ}0$		desc. node	323 Jul 31 j 23:40	3° ≙ 05'50	
asc. node	318 Oct 08 j 11:17	7° Ⅱ 56'19			323 Sep 09 j 10:38	0° M .	
retrograde	318 Oct 11 j 13:15	8° Ⅱ 00'19			323 Oct 20 j 07:39	0° ∡ ″	
min. Earth dist.	318 Nov 13 j 20:06	0° Ⅱ 35'05	0.58040 AU		323 Nov 28 j 05:20	0°ಕ	
	318 Nov 15 j 08:00	30° ₹8		evening set	324 Jan 04 j 05:40	29° る 10'35	
opposition	318 Nov 19 j 21:12	28° 8 12'23	1°50'38		324 Jan 05 j 06:41	0° ≈	
greatest brilliancy	318 Nov 19 j 10:26	28° 8 22'58	-1.8m		324 Feb 12 j 11:59	0° ∀	
direct	010 D	100 - 46121					
direct	318 Dec 26 j 15:34	19° 8 46'31			22434 11:11.00	2101/20122	004690
uncet	319 Feb 10 j 05:28	$\Pi^{\circ}0$		conjunction	324 Mar 11 j 11:08	21°\(\frac{1}{2}\)28'32	
uncer	319 Feb 10 j 05:28 319 Apr 13 j 06:05	0°© 11°0		conjunction minimum elong	324 Mar 11 j 14:06	21°) 34′08	
uncer	319 Feb 10 j 05:28 319 Apr 13 j 06:05 319 Jun 04 j 08:22	0° U 0°© 10°0		minimum elong	324 Mar 11 j 14:06 324 Mar 22 j 18:36	21°) 34′08 0° °	0°46'27
dicce	319 Feb 10 j 05:28 319 Apr 13 j 06:05 319 Jun 04 j 08:22 319 Jul 22 j 18:42	0° M 0° S 0° II		-	324 Mar 11 j 14:06 324 Mar 22 j 18:36 324 Apr 29 j 15:45	21°) 34'08 0° ° 27° ° 45'14	
	319 Feb 10 j 05:28 319 Apr 13 j 06:05 319 Jun 04 j 08:22 319 Jul 22 j 18:42 319 Sep 06 j 09:25	0°₽ 0°₽ 0°₽ 0°©		minimum elong max. Earth dist.	324 Mar 11 j 14:06 324 Mar 22 j 18:36 324 Apr 29 j 15:45 324 May 02 j 19:11	21°¥34'08 0°Ƴ 27°Ƴ45'14 0°℧	0°46'27
evening set max. Earth dist.	319 Feb 10 j 05:28 319 Apr 13 j 06:05 319 Jun 04 j 08:22 319 Jul 22 j 18:42	0°표 0°& 0°% 0°ሙ 0°• 4°•	2.51194 AU	minimum elong	324 Mar 11 j 14:06 324 Mar 22 j 18:36 324 Apr 29 j 15:45	21°) 34'08 0° ° 27° ° 45'14	0°46'27

	324 Jun 15 j 00:18	$\Pi^{\circ}0$		min. Earth dist.	329 Jun 24 j 09:23	26° ∡ 12'34	0.39100 AU
	324 Jul 30 j 16:33	0°ම		direct	329 Jul 21 j 14:23	21° ∡ ¹45'45	
	324 Sep 17 j 08:32	$0^{\circ}\Omega$			329 Aug 27 j 05:14	0°ರ	
	324 Nov 10 j 16:59	0° m)			329 Oct 20 j 14:36	0° ≈	
retrograde	325 Jan 26 j 01:45	23° m/49'26			329 Dec 04 j 13:44	0° ₩	
opposition	325 Mar 05 j 07:12	15° Mp 10'20	3°47'04		330 Jan 17 j 10:30	0° Υ	
	-	-		4-	5	1° Υ 53'03	
greatest brilliancy	325 Mar 06 j 00:35	14° m 53'35	-1.5m	asc. node	330 Jan 20 j 04:56		
min. Earth dist.	325 Mar 10 j 15:43	13° Mp 06'45	0.62322 AU		330 Mar 02 j 23:30	0°8	
direct	325 Apr 15 j 11:08	5° Mp 13'53			330 Apr 17 j 16:39	Π°	
desc. node	325 Jun 17 j 22:18	24° Mp 13'13			330 Jun 03 j 10:19	0ංම	
	325 Jun 28 j 22:32	0∘ ⊽		evening set	330 Jun 13 j 09:22	6° 5 20'36	
	325 Aug 16 j 15:07	0° M .			330 Jul 20 j 14:31	$0 { m ^o} \Omega$	
	325 Sep 27 j 21:19	0° ∡ ¹		max. Earth dist.	330 Jul 26 j 07:17	3° Ω 37'35	2.67456 AU
	325 Nov 06 j 08:35	ರ°ರ					
	325 Dec 14 j 18:28	0° ≈		conjunction	330 Jul 29 j 22:59	5° Ω 57'14	1°09'33
	326 Jan 22 j 08:19	0° ∀		minimum elong	330 Jul 29 j 22:55	5° Ω 57'09	1°09'32
	326 Mar 03 j 00:52	$0^{\circ}\mathbf{\Upsilon}$		Č	330 Sep 05 j 12:24	0° m/y	
evening set	326 Mar 12 j 08:29	6° Ƴ 52'01		morning rise	330 Sep 12 j 12:48	4° m/31'30	
evening see	326 Apr 13 j 11:41	0°8		morning rise	330 Oct 21 j 15:27	0∘ ಹ	
asc. node	326 Apr 17 j 07:35	2° 8 42'00			330 Dec 05 j 18:51	0° ™	
asc. node	320 Apr 17 J 07.33	2 042 00			-	0° ⊼ 7	
	22634 00:12.20	1001200116	0012120		331 Jan 19 j 00:56		
conjunction	326 May 09 j 13:28	18° 8 09'16	0°13'30	desc. node	331 Feb 07 j 20:40	13° ∡ ³35′01	
minimum elong	326 May 09 j 12:43	18° 8 08'00	0°13'30		331 Mar 03 j 17:39	0°ಕ	
behind sun begin	326 May 09 j 00:37	17° 8 47'14			331 Apr 16 j 19:08	0° ≈	
behind sun end	326 May 10 j 00:50	18° 8 28'46			331 Jun 03 j 16:00	0° ∀	
	326 May 26 j 23:30	Π $^{\circ}0$		retrograde	331 Aug 05 j 06:40	21° ∺ 20'44	
max. Earth dist.	326 Jun 07 j 03:38	7° Ⅱ 29'10	2.57829 AU	min. Earth dist.	331 Aug 31 j 19:11	16°) 44'38	0.40792 AU
morning rise	326 Jul 01 j 04:25	23° Ⅱ 19'49		opposition	331 Sep 07 j 19:37	14°) 35′05	-5°02'26
	326 Jul 11 j 10:51	0°ම		greatest brilliancy	331 Sep 06 j 17:41	14° ¥ 55′09	-2.7m
	326 Aug 27 j 15:49	$0^{\circ}\Omega$		direct	331 Oct 08 j 11:49	8° ¥ 55'47	
	326 Oct 15 j 16:06	0°m)		asc. node	331 Dec 08 j 03:50	26° ¥ 58'33	
	326 Dec 07 j 00:21	0∘ ⊽			331 Dec 14 j 05:39	0° Υ	
	327 Feb 12 j 18:04	0° M			332 Feb 05 j 18:39	0°8	
retrograde	327 Mar 13 j 17:57	4°MJ30'30			332 Mar 26 j 09:42	0°II	
retrograde	327 Apr 09 j 21:32	30°R ≏			332 May 14 j 03:38	0°©	
opposition	327 Apr 09 j 21:32 327 Apr 18 j 00:28	30 K== 27° £ 15'55	0.05.214.2			0° U	
**					332 Jul 01 j 06:14		
greatest brilliancy	327 Apr 18 j 08:11	27° £ 09'07		evening set	332 Jul 20 j 02:07	11° Ω 54'33	
min. Earth dist.	327 Apr 26 j 08:41	24° £ 20'00	0.51264 AU	P 4 1	332 Aug 17 j 07:07	0° m)	2 (4120 477
desc. node	327 May 05 j 20:39	21° ≙ 21'59		max. Earth dist.	332 Aug 17 j 21:50	0° II) 23'51	2.64138 AU
direct	327 May 26 j 19:23	18° ≙ 24'02					
	327 Jul 10 j 23:15	0° M		conjunction	332 Sep 03 j 21:16	11° m) 27'47	
	327 Aug 31 j 19:04	0°⊀		minimum elong	332 Sep 03 j 22:23	11° m)29'37	0°56'55
	327 Oct 13 j 03:02	0°ප			332 Oct 01 j 19:27	0∘ 亚	
	327 Nov 22 j 01:47	0° ≈		morning rise	332 Oct 19 j 12:10	11° ≙ 58'56	
	327 Dec 31 j 19:38	0° ∀			332 Nov 14 j 14:21	0° M	
	328 Feb 10 j 13:02	0 $^{\circ}$ $\mathbf{\Upsilon}$		desc. node	332 Dec 25 j 18:59	29°M18'14	
asc. node	328 Mar 04 j 06:50	16° Ƴ 15'47			332 Dec 26 j 18:03	0° ∡ ¹	
	328 Mar 23 j 21:58	8° 0			333 Feb 05 j 13:49	8°0	
evening set	328 May 02 j 14:56	26° 8 59'49			333 Mar 17 j 14:31	0° ≈	
Ç	328 May 07 j 03:05	0°II			333 Apr 26 j 17:03	0° ∀	
					333 Jun 07 j 11:43	0°Υ	
conjunction	328 Jun 21 j 23:28	0°901'03	0°55'19		333 Jul 25 j 01:15	0°8	
minimum elong	328 Jun 21 j 22:10	29° II 58'57	0°55'18	retrograde	333 Sep 25 j 09:50	20° 8 40'28	
minimum clong	-		0 33 16	•			
F (1 F)	328 Jun 21 j 22:49	0.22 0.22	2 (5241 411	asc. node	333 Oct 25 j 03:52	14° 8 33'38	0.52420 411
max. Earth dist.	328 Jul 02 j 13:46		2.65341 AU	min. Earth dist.	333 Oct 26 j 14:21		0.53430 AU
morning rise	328 Aug 07 j 16:41	29° © 54'35		opposition	333 Nov 02 j 20:37	11° 8 15'07	
	328 Aug 07 j 20:06	0° N		greatest brilliancy	333 Nov 02 j 17:34	11° 8 18'02	-2.0m
	328 Sep 24 j 05:47	0° m p		direct	333 Dec 08 j 02:02	3° 8 25'25	
	328 Nov 10 j 23:11	0∘ ⊽			334 Feb 26 j 22:42	$\Pi^{\circ}0$	
	328 Dec 29 j 11:38	0° M			334 Apr 22 j 15:54	0°€	
	329 Feb 18 j 17:38	0° ∡ ¹			334 Jun 12 j 00:48	$0^{\circ}\Omega$	
desc. node	329 Mar 22 j 21:04	16° ∡ ³32'44			334 Jul 29 j 21:02	0° m	
	329 Apr 28 j 07:56	8°0		evening set	334 Aug 27 j 10:27	18° m 39'10	
retrograde	329 May 19 j 20:50	2°る43'35		-	334 Sep 13 j 08:47	0∘ ⊽	
-	329 Jun 10 j 07:15	30°R ✓		max. Earth dist.	334 Sep 14 j 17:46		2.55699 AU
opposition	329 Jun 19 j 14:40	27° ∡ ³32′22	-5°11'33		r J - /		
greatest brilliancy	329 Jun 20 j 10:00	27° × 18'51		conjunction	334 Oct 14 j 15:22	21° ≏ 34'03	0°17'48
5cor orimuncy	Jun 20 j 10.00	_, ,, 1001		,			2 - 7 . 0

minimum elong	334 Oct 14 j 16:07	21° ≏ 35′21	0°17'48		339 Sep 27 j 05:52	$0^{\circ}\Omega$	
	334 Oct 26 j 13:29	0° M .			339 Nov 26 j 22:50	0° m	
desc. node	334 Nov 12 j 17:51	12°M21'21		retrograde	340 Jan 11 j 20:52	10° m /15'11	
morning rise	334 Dec 04 j 20:29	28°M35'40		opposition	340 Feb 19 j 20:20	1° m 13'40	4°17'02
	334 Dec 06 j 17:52	0°⊀		greatest brilliancy	340 Feb 20 j 09:52	1° Mp 00′26	-1.4m
	335 Jan 15 j 09:40	0°ರ			340 Feb 22 j 23:40	30° R Ω	
	335 Feb 23 j 05:03	0° ≈		min. Earth dist.	340 Feb 23 j 17:41	29° Ω 42'28	0.65085 AU
	335 Apr 02 j 23:30	0° ∀		direct	340 Apr 01 j 05:27	21° Ω 12'14	
	335 May 12 j 16:42	0 ° $\mathbf{\Upsilon}$			340 May 12 j 14:04	0° m	
	335 Jun 23 j 16:13	8°		desc. node	340 Jul 04 j 14:37	26° Mp 21'30	
	335 Aug 09 j 09:16	$\Pi^{\circ}0$			340 Jul 10 j 17:39	0° ⊙	
asc. node	335 Sep 12 j 03:15	17° Ⅱ 57'54			340 Aug 25 j 19:58	0° M .	
	335 Oct 15 j 23:52	0°ම			340 Oct 06 j 07:55	0° ∡ ¹	
retrograde	335 Nov 03 j 11:21	2° © 07'59			340 Nov 14 j 11:27	0°ठ	
	335 Nov 21 j 00:30	30° Ŗ Ⅱ			340 Dec 22 j 16:24	0° ≈	
min. Earth dist.	335 Dec 09 j 15:39	23° Ⅱ 42'30	0.63533 AU		341 Jan 30 j 01:34	0° ∀	
opposition	335 Dec 13 j 11:54	22° Ⅱ 10′11	3°22'40	evening set	341 Feb 15 j 11:19	12°) 36′21	
greatest brilliancy	335 Dec 12 j 23:41	22° II 22'24	-1.5m	Z .	341 Mar 10 j 12:51	$_{0}$ ° γ	
direct	336 Jan 21 j 04:27	13° Ⅲ 03′08					
	336 Mar 23 j 08:54	0°ಅ		conjunction	341 Apr 18 j 19:43	28° Ƴ 37'20	-0°09'27
	336 May 20 j 08:28	0°N		minimum elong	341 Apr 18 j 20:20	28° Υ 38'27	
	336 Jul 09 j 10:26	0° m)		behind sun begin	341 Apr 18 j 00:06	28° Y 02'27	
	336 Aug 24 j 13:35	0∘ <mark>ಹ</mark>		behind sun end	341 Apr 19 j 16:35	29° Υ 14'25	
desc. node	336 Sep 29 j 17:00	25° ♀ 01'19		oviiiiu suii viiu	341 Apr 20 j 18:14	0°8	
desc. node	336 Oct 06 j 16:21	0°M		asc. node	341 May 04 j 00:06	9° 8 20'02	
evening set	336 Oct 09 j 21:26	2°ML18'30		max. Earth dist.	341 May 25 j 14:27		2.53499 AU
max. Earth dist.	336 Oct 25 j 22:35	13°ML59'41	2.43381 AU	max. Earth dist.	341 Jun 03 j 01:46	0°II	2.33477710
max. Earth dist.	336 Nov 16 j 10:10	0° ⊼	2.43301710	morning rise	341 Jun 14 j 04:16	7° II 27'32	
	330 1101 10 10.10	٧ ٨		morning rise	341 Jul 18 j 12:33	0°9	
conjunction	336 Dec 04 j 11:52	13° ∡ ¹44'57	0°30'55		341 Sep 04 j 01:54	0° U	
minimum elong	336 Dec 04 j 09:39	13° × ⁷ 40'43			341 Oct 24 j 08:46	0° m)	
minimum clong	336 Dec 25 j 12:13	0°중	0 3734		341 Dec 20 j 11:37	0∘ ʊ	
	337 Feb 01 j 18:15	0°≈		retrograde	342 Feb 21 j 18:25	0 = 17° £ 32'37	
morning rise	337 Feb 06 j 17:19	0 ∞ 3° ≈ 54'10		opposition	342 Mar 30 j 10:23	9° £ 38'57	2°21'21
morning rise	337 Mar 12 j 01:14	0° \		greatest brilliancy	342 Mar 31 j 02:55	9° £ 23'40	
	337 Apr 20 j 06:26	0° Υ		min. Earth dist.	342 Apr 06 j 20:50	6° £ 54'32	0.56200 AU
	337 Apr 20 j 00:20 337 May 31 j 07:03	0°8		direct	342 May 09 j 13:38	0° ⊆ 09'28	0.30200 AO
	337 Jul 14 j 02:01	0°II		desc. node	342 May 09 j 13:38 342 May 22 j 14:00	0 = 09 28 1° ⊆ 13'59	
aga mada		10° Ⅱ 19'32		desc. Hode	342 Jul 29 j 03:46	0° M	
asc. node	337 Jul 30 j 01:20	10 ப 1932			,	0° ⊼ 1	
	337 Aug 31 j 10:02	0° U			342 Sep 12 j 11:04	0°る	
	337 Nov 01 j 16:20				342 Oct 23 j 01:54		
retrograde	337 Dec 07 j 05:58	6° Ω 45'20			342 Dec 01 j 03:38	0° ≈ 0° ∀	
	338 Jan 08 j 19:47	30°R≌	4°31'10		343 Jan 09 j 06:20	0° Υ	
opposition greatest brilliancy	338 Jan 16 j 07:17	27°503'43		aca mada	343 Feb 18 j 10:49	22° Υ 39'02	
	338 Jan 16 j 06:08	27°504'52		asc. node	343 Mar 21 j 21:57		
min. Earth dist.	338 Jan 16 j 07:27	27°503'33	0.67599 AU		343 Apr 01 j 08:41	0°8	
direct	338 Feb 26 j 00:51	17° © 15'33		evening set	343 Apr 14 j 23:46	9° ႘ 27'59 0°Ⅱ	
	338 Apr 19 j 09:08	0° Ω			343 May 15 j 05:10	υш	
	338 Jun 17 j 04:19	0° m)		:	242 I 06: 20:46	150 T 01125	0942122
desc. node	338 Aug 04 j 11:31 338 Aug 17 j 15:41	0° ഫ 8° ഫ 46'59		conjunction minimum elong	343 Jun 06 j 20:46 343 Jun 06 j 19:18	15° Ⅱ 01'25 14° Ⅱ 59'01	
desc. node							
	338 Sep 17 j 04:14	0°M₊		max. Earth dist.	343 Jun 23 j 23:25		2.63038 AU
	338 Oct 27 j 22:04	0° ⊀			343 Jun 29 j 19:57	0°9	
. ,	338 Dec 05 j 19:24	0°る		morning rise	343 Jul 25 j 08:26	16° 9 24'06	
evening set	338 Dec 07 j 15:44	1°る26'51			343 Aug 15 j 17:56	0° N	
	339 Jan 12 j 20:41	0° ≈			343 Oct 02 j 14:00	0° ™	
	220 E 1 12:07.45	22050120	1000116		343 Nov 20 j 11:42	ი∘ ফ	
conjunction	339 Feb 12 j 07:45	23°≈58'38			344 Jan 10 j 23:56	0°M₊ 0°. 7	
minimum elong	339 Feb 12 j 09:38	24°≈02'18 0°¥	1 02 15	daga rada	344 Mar 14 j 10:51	0°⊀ 7 6°∗ 7 111'5°	
	339 Feb 20 j 01:02	0° ∀ 0° Υ		desc. node	344 Apr 08 j 12:53	6°×11'58	
Г. (1. Г.)	339 Mar 31 j 05:30		2.40246.433	retrograde	344 Apr 19 j 23:25	6° ₹ 58'27	2022144
max. Earth dist.	339 Apr 02 j 09:37		2.40246 AU	opposition	344 May 22 j 09:13	0° × 759'51	
morning rise	339 Apr 21 j 18:05	15° Y 57'54		greatest brilliancy	344 May 23 j 02:00	0° х 46′44	-2.3m
000 mc J-	339 May 11 j 03:42	0° 8		main E41 3' '	344 May 25 j 13:32	30°RM	0.42224.411
asc. node	339 Jun 17 j 01:01	25° 8 43'24		min. Earth dist.	344 May 30 j 02:28	28°M35'33	0.43234 AU
	339 Jun 23 j 08:33	0° I		direct	344 Jun 26 j 14:50	23°M49'12	
	339 Aug 08 j 07:57	0ංම			344 Jul 27 j 17:52	0° ∡ 7	

		_					
	344 Sep 21 j 09:23	್೦ಂ		minimum elong	349 Sep 28 j 00:15	5° ≙ 14'17	0°36'00
	344 Nov 03 j 22:16	0° ≈			349 Nov 02 j 16:08	0°M	
	344 Dec 15 j 15:24	0°) €		morning rise	349 Nov 15 j 06:11	8°M57'51	
,	345 Jan 26 j 17:48	0° Υ		desc. node	349 Nov 29 j 09:45	19°M 11'01	
asc. node	345 Feb 05 j 21:13	7° Y 06'17 0° と			349 Dec 14 j 04:15	5°0 る°0	
	345 Mar 11 j 03:30	0°U			350 Jan 23 j 05:03	0°≈	
evening set	345 Apr 25 j 02:38 345 May 28 j 22:31	0 II 21°II59'29			350 Mar 03 j 09:07 350 Apr 11 j 11:56	0 ≈ 0° ∺	
evening set	345 Jun 10 j 09:27	0°9			350 May 21 j 15:46	0° Υ	
	545 Juli 10 j 07.27	0 O			350 Jul 03 j 14:37	%8 0°8	
conjunction	345 Jul 15 j 14:12	22°529'18	1°07'16		350 Aug 23 j 01:42	0°II	
minimum elong	345 Jul 15 j 13:36	22°528'21		asc. node	350 Sep 28 j 18:38	14° Ⅱ 32'51	
max. Earth dist.	345 Jul 17 j 05:10		2.67278 AU	retrograde	350 Oct 20 j 03:42	17° Ⅱ 26'38	
	345 Jul 27 j 09:15	$0^{\circ}\Omega$		min. Earth dist.	350 Nov 23 j 12:20	9° Ⅱ 38'49	0.60234 AU
morning rise	345 Aug 29 j 15:17	21° Ω 11'36		opposition	350 Nov 28 j 19:37	7° Ⅱ 32'37	2°29'54
-	345 Sep 12 j 09:48	0° m)		greatest brilliancy	350 Nov 28 j 07:05	7° Ⅱ 45'03	-1.7m
	345 Oct 28 j 23:58	0∘ ⊽			350 Dec 23 j 00:40	30° ₹ 8	
	345 Dec 14 j 01:38	0°M₊		direct	351 Jan 05 j 08:15	28° 8 50'18	
	346 Jan 28 j 22:06	0° ∡ ¹			351 Jan 19 j 08:55	Π $\circ 0$	
desc. node	346 Feb 24 j 12:12	17° ∡ 16'39			351 Apr 06 j 07:44	0 \circ \odot	
	346 Mar 16 j 09:19	0°ප			351 May 29 j 23:12	$0^{\circ}\Omega$	
	346 May 05 j 16:29	0° ≈			351 Jul 17 j 22:00	0° m ∕	
retrograde	346 Jul 08 j 17:07	21° ≈ 04'35			351 Sep 01 j 17:07	0∘ ⊽	
min. Earth dist.	346 Aug 05 j 12:29	16°≈33'29	0.37844 AU	evening set	351 Sep 22 j 09:49	14° £ 11'20	
opposition	346 Aug 08 j 20:27	15°≈38'39		max. Earth dist.	351 Oct 07 j 04:59	24° £ 34'44	2.48451 AU
greatest brilliancy	346 Aug 08 j 05:04	15°≈49'13	-2.9m		351 Oct 14 j 19:34	0°M	
direct	346 Sep 07 j 10:00	10°≈39'58		desc. node	351 Oct 17 j 08:47	1° M 49'45	
aga mada	346 Nov 08 j 06:49	0° ∺ 26° ∺ 39'52		agnismation	251 Nov. 12 : 09.17	21° M .31'49	0017102
asc. node	346 Dec 24 j 20:55	20 π 3932 0° Υ		conjunction	351 Nov 13 j 08:17	21°M30'05	
	346 Dec 30 j 07:43 347 Feb 16 j 06:10	0° 8		minimum elong	351 Nov 13 j 07:21 351 Nov 24 j 16:41	21 IIC30 03 0° ⊼	0 1/02
	347 Apr 04 j 18:52	0°II			352 Jan 02 j 23:16	°ੇ ਨ	
	347 May 22 j 12:41	0°©		morning rise	352 Jan 10 j 16:14	5°る59'07	
evening set	347 Jul 06 j 14:45	28°922'57		morning rise	352 Feb 10 j 09:30	0°≈	
e venning see	347 Jul 09 j 04:06	0° Ω			352 Mar 19 j 19:45	0° ₩	
max. Earth dist.	347 Aug 09 j 15:04	20° Ω 02'00	2.66065 AU		352 Apr 28 j 03:37	0° Υ	
	<i>C</i> 3				352 Jun 08 j 08:48	$0^{\circ}B$	
conjunction	347 Aug 21 j 09:16	27° Ω 35'55	1°04'59		352 Jul 22 j 18:22	$\Pi^{\circ}0$	
minimum elong	347 Aug 21 j 10:01	27° Ω 37'09	1°04'58	asc. node	352 Aug 15 j 17:57	14° Ⅱ 53'30	
	347 Aug 25 j 02:26	0° m			352 Sep 11 j 12:27	0ංම	
morning rise	347 Oct 05 j 04:31	26° Mp 56'05		retrograde	352 Nov 23 j 21:21	23° © 52'13	
	347 Oct 09 j 18:59	0∘ ⊽		min. Earth dist.	353 Jan 01 j 13:29	14° © 37'25	0.66789 AU
	347 Nov 22 j 23:56	0°M₊		opposition	353 Jan 03 j 01:52	14° © 00'57	4°14'55
	348 Jan 04 j 18:38	0° ∡ ¹		greatest brilliancy	353 Jan 02 j 19:17	14° © 07'34	-1.3m
desc. node	348 Jan 12 j 11:09	5° ∡ 129′20		direct	353 Feb 12 j 04:13	4° 5 25'33	
	348 Feb 15 j 09:04	0°ප			353 May 03 j 11:01	$0^{\circ}\Omega$	
	348 Mar 27 j 07:51	0° ≈			353 Jun 26 j 02:45	0° Mp	
	348 May 07 j 16:42	0° ℋ 0° Ƴ		desc. node	353 Aug 12 j 07:01	0° 죠 14° 요 59'07	
	348 Jun 21 j 03:33			desc. node	353 Sep 03 j 08:35		
retrograda	348 Aug 28 j 08:52 348 Sep 07 j 09:35	0° と 0° と 43'28			353 Sep 24 j 16:11 353 Nov 04 j 08:56	0° ጤ 0° ∡ 1	
retrograde	348 Sep 17 j 05:44	0° 6 43′28 30° ₹ Υ		evening set	353 Nov 04 J 08:56 353 Nov 12 j 12:15	0° x ¹ 6° x ¹11'01	
min. Earth dist.	348 Oct 06 j 10:50		0.48358 AU	evening set	353 Dec 13 j 07:11	0° ප	
opposition	348 Oct 14 j 11:25	22° Υ '00'20		max. Earth dist.	354 Jan 09 j 13:04		2.37195 AU
greatest brilliancy	348 Oct 14 j 01:45	22° Υ '09'06		max. Dartii dist.	55 (Juli 6) j 15.0 (21 020 03	2.37173110
asc. node	348 Nov 10 j 19:40	15° Y 10′56		conjunction	354 Jan 14 j 11:26	25° る 19'50	-1°03'58
direct	348 Nov 16 j 23:31	14° Y ′55'30		minimum elong	354 Jan 14 j 10:16	25° る 17'32	
	349 Jan 11 j 22:07	9° 8		-	354 Jan 20 j 09:18	0° ≈	
	349 Mar 10 j 17:59	$\Pi^{\circ}0$			354 Feb 27 j 13:36	0° ₩	
	349 May 01 j 03:57	0ංම		morning rise	354 Mar 25 j 14:45	20° ∺ 05′00	
	349 Jun 19 j 09:35	0 $^{\circ}$ Ω			354 Apr 07 j 17:05	$0^{\circ}\Upsilon$	
	349 Aug 05 j 20:04	0° m			354 May 18 j 14:19	0°8	
evening set	349 Aug 12 j 03:29	4° Mp 05'04			354 Jun 30 j 21:21	0°II	
max. Earth dist.	349 Sep 03 j 02:48		2.59577 AU	asc. node	354 Jul 03 j 15:47	1° ∏ 51'12	
	349 Sep 20 j 06:56	0∘ ⊽			354 Aug 16 j 09:21	0° ©	
:	240.0 27:22.04	E0 0 1011 -	0026101		354 Oct 07 j 10:53	0°Ω	
conjunction	349 Sep 27 j 23:04	5° £ 12'16	0~36'01	retrograde	354 Dec 28 j 14:54	27° Ω 16'14	

opposition	355 Feb 06 j 03:53	17° Ω 56′23			360 May 02 j 08:43	0°II	
greatest brilliancy	355 Feb 06 j 11:59	17° Ω 48'22		evening set	360 May 12 j 12:48	6° Ⅱ 43'03	
min. Earth dist.	355 Feb 08 j 12:52	17° Ω 00'06	0.66872 AU		360 Jun 17 j 07:16	0	
direct	355 Mar 19 j 11:36	7° Ω 56′28					
	355 May 30 j 04:52	0° m		conjunction	360 Jun 30 j 18:34	8° © 39'46	1°00'54
	355 Jul 21 j 11:29	0∘ ⊽		minimum elong	360 Jun 30 j 17:28	8° 5 38'01	1°00'54
desc. node	355 Jul 22 j 07:14	0° ₽ 31'13		max. Earth dist.	360 Jul 08 j 00:27	13° © 18'18	2.66255 AU
	355 Sep 04 j 06:37	0°M			360 Aug 03 j 04:34	$0 {\circ} \Omega$	
	355 Oct 15 j 08:44	0° ∡ ¹		morning rise	360 Aug 15 j 18:16	7° Ω 59'32	
	355 Nov 23 j 08:21	ರ°0			360 Sep 19 j 10:03	O° Mp	
	355 Dec 31 j 10:29	0° ≈			360 Nov 05 j 15:47	0∘ ত	
evening set	356 Jan 20 j 01:47	15° ≈ 27'57			360 Dec 23 j 02:15	0° M.	
	356 Feb 07 j 16:24	0° ∀			361 Feb 09 j 16:26	0° ∡ ¹	
	356 Mar 17 j 23:33	0 ° $\mathbf{\gamma}$		desc. node	361 Mar 13 j 04:07	18° ∡ ¹21′06	
					361 Apr 04 j 00:44	0°₹	
conjunction	356 Mar 26 j 04:33	6° Ƴ 07'04	-0°33'42	retrograde	361 Jun 07 j 03:40	19° る 37'13	
minimum elong	356 Mar 26 j 06:55	6° Ƴ 11'27	0°33'40	opposition	361 Jul 07 j 06:31	14° ප 38'47	-6°21'17
•	356 Apr 28 j 00:26	0°8		greatest brilliancy	361 Jul 07 j 17:21	14° る 31'34	-2.9m
max. Earth dist.	356 May 10 j 11:55	8° 8 49'48	2.48498 AU	min. Earth dist.	361 Jul 09 j 11:04	14° る 03'49	0.37799 AU
asc. node	356 May 20 j 15:16	15° 8 54'28		direct	361 Aug 06 j 19:51	9° ප 26'56	
morning rise	356 May 26 j 05:59	19° 8 47'17			361 Oct 08 j 06:29	0° ≈	
Ü	356 Jun 10 j 05:00	0°II			361 Nov 26 j 12:56	0°) €	
	356 Jul 25 j 17:25	0°ಅ		asc. node	362 Jan 10 j 11:57	29°) 38′28	
	356 Sep 11 j 20:26	$0^{\circ}\Omega$			362 Jan 11 j 00:55	0°Υ	
	356 Nov 03 j 04:50	0° m/y			362 Feb 25 j 10:26	0°8	
	357 Jan 14 j 10:40	0∘ ರ ∘ .ಚ			362 Apr 12 j 15:46	0°II	
retrograde	357 Feb 04 j 06:49	2° ≏ 25'09			362 May 29 j 16:28	0°e	
retrograde	357 Feb 23 j 19:37	2 — 25 0 7 30°R m)		evening set	362 Jun 21 j 22:57	14°9345'01	
opposition	357 Mar 14 j 00:59	24° Mp 00'32	3°21'32	evening set	362 Jul 15 j 23:59	0°Ω	
greatest brilliancy	357 Mar 14 j 19:15	23° m 43'09	-1.6m	max. Earth dist.	362 Jul 31 j 13:27		2.67185 AU
•			0.60385 AU	max. Earth dist.	302 Jul 31 J 13.27	9 063407	2.0/163 AU
min. Earth dist.	357 Mar 20 j 04:34	21° Mp 40'26	0.00383 AU	:	262 A 07: 02:55	14° Ω 05'27	1°09'02
direct	357 Apr 23 j 23:15	14° Mp 10'34		conjunction	362 Aug 07 j 02:55		1°09'01
desc. node	357 Jun 08 j 05:22	24° m 58'26		minimum elong	362 Aug 07 j 03:11	14° Ω 05'53	1 0901
	357 Jun 19 j 07:51	0∘ 亚			362 Aug 31 j 21:44	0°M)	
	357 Aug 10 j 04:09	0°M		morning rise	362 Sep 20 j 15:39	12° m/48'09	
	357 Sep 22 j 05:22	0° ∡			362 Oct 16 j 20:30	0∘ 亚	
	357 Nov 01 j 00:34	ರ್∘ರ			362 Nov 30 j 14:54	0°M	
	357 Dec 09 j 14:54	0° ≈			363 Jan 13 j 06:12	0° ∡	
	358 Jan 17 j 08:16	0°) €		desc. node	363 Jan 29 j 02:53	11° ₹ 04'14	
	358 Feb 26 j 03:51	0° Υ			363 Feb 25 j 00:43	0°る	
evening set	358 Mar 25 j 04:31	19° Ƴ 40'18			363 Apr 08 j 13:49	0° ≈	
asc. node	358 Apr 07 j 15:03	29° Ƴ 13'56			363 May 22 j 17:29	0° ∀	
	358 Apr 08 j 17:11	9° 8			363 Jul 16 j 14:45	$0^{\circ}\Upsilon$	
				retrograde	363 Aug 18 j 15:24	7° Y 02'49	
conjunction	358 May 20 j 07:50	28° 8 40'55		min. Earth dist.	363 Sep 14 j 19:06	2° Y 04'04	0.43281 AU
minimum elong	358 May 20 j 06:39	28° 8 38'55	0°25'11		363 Sep 21 j 01:33	30° ₹ ₩	
	358 May 22 j 06:47	Π $\circ 0$		opposition	363 Sep 22 j 14:55	29° 升 28′52	-3°42'29
max. Earth dist.	358 Jun 13 j 16:35		2.59887 AU	greatest brilliancy	363 Sep 21 j 16:29	29° ∺ 47'32	-2.6m
	358 Jul 06 j 17:57	0		direct	363 Oct 24 j 07:48	23° 升 18′00	
morning rise	358 Jul 10 j 06:40	2° © 17'01			363 Nov 27 j 17:41	0 ° Υ	
	358 Aug 22 j 18:56	$0 {\circ} \Omega$		asc. node	363 Nov 28 j 12:02	0° Ƴ 16′09	
	358 Oct 10 j 06:27	O° Mp			364 Jan 29 j 02:10	9° 8	
	358 Nov 29 j 23:56	0∘ ত			364 Mar 20 j 14:02	Π $^{\circ}0$	
	359 Jan 26 j 19:33	0° M.			364 May 09 j 02:05	0 \circ \odot	
retrograde	359 Mar 26 j 10:28	15°M36'29			364 Jun 26 j 13:03	$0^{\circ}\Omega$	
desc. node	359 Apr 26 j 04:40	9°M58'38		evening set	364 Jul 28 j 09:05	20° Ω 08'15	
opposition	359 Apr 29 j 18:05	8° M 47'14	-0°11'22		364 Aug 12 j 17:16	0° m	
greatest brilliancy	339 Jul 26 j 17:56	21° Ⅱ 59'32	1.5m	max. Earth dist.	364 Aug 23 j 14:42	7° m 04'36	2.62733 AU
min. Earth dist.	359 May 08 j 06:47	5°M53'35	0.48366 AU				
direct	359 Jun 06 j 12:59	0°M24'49		conjunction	364 Sep 12 j 09:23	20° m 05'27	0°50'26
	359 Aug 22 j 21:17	0°⊀		minimum elong	364 Sep 12 j 10:37	20° m 07'29	0°50'24
	359 Oct 06 j 05:01	0°ರ		Č	364 Sep 27 j 05:12	0∘ <u>⊽</u>	
	359 Nov 15 j 23:05	0° ≈		morning rise	364 Oct 28 j 18:07	21° ≏ 33'00	
	359 Dec 26 j 04:49	0°) €		- C	364 Nov 09 j 20:41	0° M	
	360 Feb 05 j 07:00	$0^{\circ}\Upsilon$		desc. node	364 Dec 16 j 02:35	25°M52'58	
asc. node	360 Feb 23 j 13:17	12° Υ 59'45			364 Dec 21 j 18:25	0° ∡ 7	
	360 Mar 18 j 22:37	0°8			365 Jan 31 j 06:38	0° ろ	
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	365 Mar 11 j 22:26	0° ≈		min. Earth dist.	370 Jan 24 j 17:38		0.67625 AU
	365 Apr 20 j 14:01	0° ∀			370 Feb 05 j 23:02	30° ₹ 5	
	365 May 31 j 13:07	0 ° Υ		direct	370 Mar 05 j 21:26	25° © 03'22	
	365 Jul 15 j 13:16	9° 8			370 Apr 05 j 11:19	$0 {\circ} \Omega$	
	365 Sep 21 j 05:26	Π $^{\circ}0$			370 Jun 10 j 18:09	0° m y	
retrograde	365 Oct 04 j 19:25	1° Ⅱ 15′23			370 Jul 30 j 03:50	0∘ ত	
asc. node	365 Oct 15 j 10:19	0° Ⅱ 26′28		desc. node	370 Aug 07 j 23:06	5° ≏ 46'29	
	365 Oct 17 j 23:49	30° ₹ 8			370 Sep 12 j 05:05	0° M ,	
min. Earth dist.	365 Nov 06 j 04:11	24° 8 10'35	0.56078 AU		370 Oct 23 j 01:44	0° ∡ ¹	
opposition	365 Nov 12 j 19:36	21° 8 35'38	1°17'34		370 Nov 30 j 23:49	ರ°೦	
greatest brilliancy	365 Nov 12 j 11:13	21° 8 43'48	-1.9m	evening set	370 Dec 22 j 23:25	17°る18'00	
direct	365 Dec 18 j 22:50	13° 8 24'48		Ç	371 Jan 08 j 01:03	0° ≈	
	366 Feb 17 j 10:37	0°Щ			371 Feb 15 j 05:26	0°) €	
	366 Apr 16 j 14:56	0°©				• / (
	366 Jun 06 j 22:32	$0 {\circ} \Omega$		conjunction	371 Feb 28 j 10:19	10°) 13′23	-0°54'39
	366 Jul 25 j 03:34	0° mp		minimum elong	371 Feb 28 j 13:12	10° X 18'55	
evening set	366 Sep 05 j 12:10	البات 27° Mp 48'22		minimum clong	371 Mar 26 j 10:11	0° Υ	0 3437
evening set		0° ⊽		max. Earth dist.	•		2.43144 AU
E d E d	366 Sep 08 j 18:12		2 52205 ATT		371 Apr 20 j 13:38		2.43144 AU
max. Earth dist.	366 Sep 22 j 02:53	9° Ω 06'43	2.53295 AU	morning rise	371 May 05 j 12:18	29° Y 24'15	
	366 Oct 21 j 22:37	0°M₊			371 May 06 j 08:17	0° 8	
				asc. node	371 Jun 07 j 08:04	22° 8 24'21	
conjunction	366 Oct 24 j 18:31	2° ™ 01'18	0°05'50		371 Jun 18 j 11:43	$\Pi^{\circ}0$	
minimum elong	366 Oct 24 j 18:48	2°M01'48	0°05'50		371 Aug 03 j 04:51	0ංම	
behind sun begin	366 Oct 23 j 22:29	1° M 25'28			371 Sep 21 j 05:51	$0^{\circ}\Omega$	
behind sun end	366 Oct 25 j 15:08	2°M38'10			371 Nov 16 j 09:51	O° m y	
desc. node	366 Nov 03 j 01:44	8°M42'47		retrograde	372 Jan 20 j 09:40	18° m 24'09	
	366 Dec 02 j 00:44	0° ⊀		opposition	372 Feb 28 j 00:23	9° ™ 34'26	4°01'16
morning rise	366 Dec 17 j 02:58	11° ≯ 20'33		greatest brilliancy	372 Feb 28 j 16:15	9° ™ 19'03	-1.5m
	367 Jan 10 j 13:21	8°0		min. Earth dist.	372 Mar 03 j 17:37	7° ™ 44'48	0.63687 AU
	367 Feb 18 j 04:59	0° ≈			372 Apr 01 j 06:40	30°R Ω	
	367 Mar 28 j 19:34	0°) €		direct	372 Apr 09 j 08:11	29° Ω 34'51	
	367 May 07 j 07:50	0° Y			372 Apr 17 j 14:44	0° m	
	367 Jun 17 j 21:26	0°8		desc. node	372 Jun 24 j 21:54	25° m 08'47	
	367 Aug 02 j 09:35	Π $^{\circ}0$			372 Jul 03 j 14:23	0∘ ত	
asc. node	367 Sep 02 j 08:47	17° Ⅱ 50'54			372 Aug 20 j 02:22	0°M	
	367 Sep 27 j 20:20	0ം ഇ			372 Oct 01 j 01:09	0°⊀	
retrograde	367 Nov 11 j 09:39	10°533'34			372 Nov 09 j 09:27	0°ප	
min. Earth dist.	367 Dec 18 j 12:52	1° 5 49'12	0.64974 AU		372 Dec 17 j 16:51	0°≈	
opposition	367 Dec 21 j 13:17	0°936'38	3°46'09		373 Jan 25 j 03:52	0°) €	
greatest brilliancy	367 Dec 21 j 02:30			evening set	373 Mar 01 j 20:55	27° ₩ 08'27	
greatest orimancy	367 Dec 23 j 01:57	30°RⅡ	-1.4111	evening set	373 Mar 01 j 20:53	0° Υ	
direct	368 Jan 29 j 19:34	21° Ⅱ 18′03			373 Apr 15 j 23:52	0° 8	
direct	-	21 п 1803		aga mada		5° 8 50'26	
	368 Mar 11 j 20:35	0° U		asc. node	373 Apr 24 j 06:29	3 03020	
	368 May 14 j 03:49				272 4 20:21 40	100 20105	0004100
	368 Jul 04 j 06:41	0° m		conjunction	373 Apr 30 j 21:48	10° 8 29'05	0°04'08
	368 Aug 19 j 18:12	0∘ ʊ		minimum elong	373 Apr 30 j 21:34	10° 8 28'41	0°04'08
desc. node	368 Sep 20 j 00:19	21° Ω 29'44		behind sun begin	373 Apr 29 j 22:28	9° 8 48'25	
	368 Oct 01 j 23:32	0°M		behind sun end	373 May 01 j 20:41	11° 8 08'54	
evening set	368 Oct 21 j 07:15	14° ™ 01'59			373 May 29 j 08:25	0°II	
max. Earth dist.	368 Nov 10 j 17:53	29° ™ 15'47	2.40671 AU	max. Earth dist.	373 Jun 02 j 01:49	2° ∏ 30'43	2.55979 AU
	368 Nov 11 j 17:20	0° ⊀		morning rise	373 Jun 24 j 02:00	17° Ⅱ 09'44	
					373 Jul 13 j 17:59	0ංම	
conjunction	368 Dec 18 j 08:51	28° ₹ 07'59			373 Aug 30 j 01:06	$0^{\circ}\Omega$	
minimum elong	368 Dec 18 j 06:20	28° ₰ 03'06	0°51'17		373 Oct 18 j 11:48	O° m y	
	368 Dec 20 j 18:21	0°る			373 Dec 11 j 08:16	0∘ ত	
	369 Jan 27 j 22:55	0° ≈		retrograde	374 Mar 04 j 18:19	27° ≙ 24'09	
morning rise	369 Feb 23 j 14:03	20° ≈ 56′23		opposition	374 Apr 09 j 16:48	19° ≙ 51'07	1°34'27
	369 Mar 07 j 04:34	0° ∀		greatest brilliancy	374 Apr 10 j 05:17	19° ≏ 39'52	-2.0m
	369 Apr 15 j 08:22	0 ° Υ		min. Earth dist.	374 Apr 17 j 17:15	16° ≏ 58′00	0.53543 AU
	369 May 26 j 06:11	0° 8		desc. node	374 May 12 j 20:15	10° ≏ 56′22	
	369 Jul 08 j 18:17	0°Ⅲ		direct	374 May 19 j 04:50	10° ≏ 39'57	
asc. node	369 Jul 20 j 08:47	7° Ⅱ 37'53			374 Jul 19 j 09:37	0° M ₊	
	369 Aug 25 j 03:46	0°©			374 Sep 05 j 13:35	0° ∡ ¹	
	369 Oct 20 j 12:49	$0^{\circ}\Omega$			374 Oct 17 j 01:24	0°ප	
retrograde	369 Dec 14 j 22:49	14° Ω 31'46			374 Nov 25 j 13:42	0° ≈	
opposition	370 Jan 23 j 21:08	4° Ω 56'58	4°35'03		375 Jan 03 j 23:33	0°) €	
greatest brilliancy	370 Jan 23 j 23:16	4° Ω 54'50			375 Feb 13 j 09:48	$0^{\circ}\Upsilon$	
5	- J					•	

asc. node	375 Mar 12 j 05:46	19° Y 16'29		desc. node	380 Jan 02 j 18:20	2° ≯ 17'08	
	375 Mar 27 j 12:07	0°8			380 Feb 09 j 18:13	0°ರ	
evening set	375 Apr 25 j 19:12	20° 8 06'57			380 Mar 21 j 03:44	0° ≈	
	375 May 10 j 12:02	$\Pi^{\circ}0$			380 Apr 30 j 17:01	0° ∀	
					380 Jun 12 j 07:00	$0^{\circ}\mathbf{\Upsilon}$	
conjunction	375 Jun 16 j 04:42	24° Ⅱ 10′16	0°50'22		380 Aug 02 j 02:44	0°8	
minimum elong	375 Jun 16 j 03:17	24° Ⅱ 07'57	0°50'23	retrograde	380 Sep 17 j 21:47	12° 8 51'35	
	375 Jun 25 j 04:22	0°ಅ		min. Earth dist.	380 Oct 18 j 03:02		0.51187 AU
max. Earth dist.	375 Jun 29 j 16:57		2.64409 AU	opposition	380 Oct 25 j 20:02	3° 8 42'25	
morning rise	375 Aug 02 j 15:12	24°539'04		greatest brilliancy	380 Oct 25 j 18:00	3° 8 44'19	
morning rise	375 Aug 11 j 01:14	0° Ω		asc. node	380 Nov 01 j 02:34	1° 8 26'23	2.1
	375 Sep 27 j 14:48	0° m)		use. Houe	380 Nov 05 j 12:19	30°RY	
	375 Nov 14 j 18:55	0∘ ত مسلم		direct	380 Nov 29 j 07:35	26° Υ 11'44	
	376 Jan 03 j 08:55	0°M.		direct	380 Dec 25 j 02:45	0°8	
	-	0° 17⊓ 0° 27⊓				0°II	
daga mada	376 Feb 26 j 19:09				381 Mar 03 j 12:06	0°©	
desc. node	376 Mar 29 j 20:22	13° 🖈 56'16			381 Apr 25 j 14:38		
retrograde	376 May 06 j 06:23	21° × ⁷ 22'19	100 110 1		381 Jun 14 j 11:29	0° N	
opposition	376 Jun 06 j 17:17	15° ₹ 51'55			381 Aug 01 j 04:17	0° m)	
greatest brilliancy	376 Jun 07 j 14:19	15° ∡ 36′27		evening set	381 Aug 20 j 19:10	12° m 45'14	
min. Earth dist.	376 Jun 13 j 02:49	13° ∡ ′59′38	0.40724 AU	max. Earth dist.	381 Sep 09 j 13:52	25° m 52'57	2.57524 AU
direct	376 Jul 10 j 03:29	9° ∡ 28'45			381 Sep 15 j 16:38	0。 ಹ	
	376 Sep 09 j 10:26	0°ಕ					
	376 Oct 26 j 19:56	0° ≈		conjunction	381 Oct 07 j 06:54	14° ≏ 46'09	0°25'58
	376 Dec 09 j 00:10	0° ∀		minimum elong	381 Oct 07 j 07:53	14° ≙ 47'51	0°25'56
	377 Jan 20 j 22:46	0 ° Υ			381 Oct 29 j 00:25	0°M₊	
asc. node	377 Jan 27 j 04:14	4° Ƴ 18'19		desc. node	381 Nov 19 j 17:23	15°M35'07	
	377 Mar 05 j 21:22	0°8		morning rise	381 Nov 26 j 01:18	20°M11'53	
	377 Apr 20 j 05:07	$\Pi^{\circ}0$			381 Dec 09 j 08:57	0° ∡ ¹	
	377 Jun 05 j 16:56	0°€			382 Jan 18 j 05:16	0°ප	
evening set	377 Jun 06 j 20:47	0°944'30			382 Feb 26 j 04:29	0° ≈	
max. Earth dist.	377 Jul 22 j 11:55	29°548'59	2.67485 AU		382 Apr 06 j 02:00	0° ∀	
	377 Jul 22 j 18:51	$0^{\circ}\Omega$			382 May 15 j 22:28	$_{0}$ $^{\circ}$ Υ	
	J				382 Jun 27 j 04:24	0°8	
conjunction	377 Jul 23 j 20:21	0° Ω 40'36	1°09'03		382 Aug 13 j 22:37	0° I I	
minimum elong	377 Jul 23 j 20:04	0°Ω40'08	1°09'04	asc. node	382 Sep 19 j 02:01	17° I I41'53	
morning rise	377 Sep 06 j 13:50	29° Ω 14'47	1 0 0 1	retrograde	382 Oct 28 j 11:09	26° Ⅲ 26′08	
morning rise	377 Sep 00 j 13:30	0° m)		min. Earth dist.	382 Dec 02 j 20:38	18° I I16'53	0.62170 AU
	377 Oct 24 j 02:02	0∘ ত 0°		opposition	382 Dec 02 j 20:30 382 Dec 07 j 08:39	16° Ⅲ 29'13	3°02'48
		0° m		greatest brilliancy	•	16° Ⅱ 42'03	
	377 Dec 08 j 15:07	0° 17⊓ 0° 27⊓			382 Dec 06 j 19:47	7° II 32'26	-1.0111
JJ.	378 Jan 22 j 12:32	0 x . 15° x 40'02		direct	383 Jan 14 j 13:39	7 ப 32 26 0° 9	
desc. node	378 Feb 14 j 20:11				383 Mar 29 j 10:43		
	378 Mar 08 j 05:25	5°0			383 May 24 j 08:21	$\Omega^{\circ}\Omega$	
	378 Apr 23 j 03:01	0° ≈			383 Jul 12 j 23:18	0° т р	
	378 Jun 16 j 15:44	0°) (383 Aug 28 j 00:12	0° ⊽	
retrograde	378 Jul 24 j 22:15	8°) 57′32		evening set	383 Oct 02 j 16:01	24° ≙ 39'04	
min. Earth dist.	378 Aug 20 j 12:47		0.39160 AU	desc. node	383 Oct 07 j 16:30	28° ≏ 13'16	
greatest brilliancy	378 Aug 25 j 06:12	3°) €08'47			383 Oct 10 j 04:14	0°M	
opposition	378 Aug 26 j 06:21	2° 米 51′12	-5°57'00	max. Earth dist.	383 Oct 17 j 09:56		2.45664 AU
	378 Sep 05 j 19:37	30°R≈			383 Nov 20 j 00:26	0°⊀	
direct	378 Sep 25 j 05:39	27° ≈ 34'27					
	378 Oct 15 j 00:01	0° ∀		conjunction	383 Nov 25 j 11:40	4° ₰ 07'22	-0°30'18
asc. node	378 Dec 15 j 02:50	26°) (32′47		minimum elong	383 Nov 25 j 09:57	4° ₰ 04'08	0°30'17
	378 Dec 21 j 06:56	0 ° $\mathbf{\Upsilon}$			383 Dec 29 j 05:06	0°る	
	379 Feb 09 j 18:22	0°8		morning rise	384 Jan 26 j 01:05	21° る 45'17	
	379 Mar 30 j 08:17	Π $^{\circ}0$			384 Feb 05 j 13:01	0° ≈	
	379 May 17 j 14:32	0 \circ 6			384 Mar 14 j 20:54	0° ∀	
	379 Jul 04 j 12:09	$0^{\circ}\Omega$			384 Apr 23 j 02:20	0 ° Υ	
evening set	379 Jul 14 j 22:08	6° Ω 35'07			384 Jun 03 j 03:10	8° 0	
max. Earth dist.	379 Aug 15 j 01:12		2.65105 AU		384 Jul 17 j 01:31	$\Pi^{\circ}0$	
	379 Aug 20 j 12:25	0° m p		asc. node	384 Aug 06 j 00:14	12° Ⅱ 43'59	
	Č ,				384 Sep 04 j 02:03	0ಂತಾ	
conjunction	379 Aug 29 j 15:21	5° m 55'10	1°00'47		384 Nov 14 j 09:56	$0^{\circ}\Omega$	
minimum elong	379 Aug 29 j 16:20	5° m 56'47		retrograde	384 Dec 01 j 13:26	1° Ω 45'33	
	379 Oct 05 j 03:15	0∘ ⊽	-	5	384 Dec 17 j 20:09	30° ₹ 5	
morning rise	379 Oct 13 j 19:36	5° ≏ 49'48		opposition	385 Jan 10 j 17:08	21° © 59'18	4°25'52
	379 Nov 18 j 03:23	0° m .		min. Earth dist.	385 Jan 10 j 01:15	22°515'11	0.67365 AU
	379 Dec 30 j 14:05	0° ⊼		greatest brilliancy	385 Jan 10 j 13:29	22°502'57	
	217 DOC 30 J 17.03	~ ^		51 carest of fillancy	200 Jun 10 J 13.4)	- 0231	1.0111

direct	385 Feb 20 j 04:48	12° © 16'17		evening set	390 Apr 06 j 07:31	1° 8 41'40	
	385 Apr 25 j 01:14	$0^{\circ}\Omega$			390 May 17 j 13:43	$\Pi^{\circ}0$	
	385 Jun 20 j 08:41	0°m			, ,		
	385 Aug 07 j 05:11	0 o $\overline{\mathbf{v}}$		conjunction	390 May 30 j 12:57	8° Ⅱ 39'51	0°35'40
desc. node	385 Aug 24 j 15:01	11° ≏ 41'25		minimum elong	390 May 30 j 11:32	8° Ⅱ 37'30	
dese. Hode	385 Sep 19 j 20:08	0°M		max. Earth dist.	390 Jun 19 j 20:12	22° I I02'22	2.61742 AU
	385 Oct 30 j 14:35	0° ⊼ ¹		max. Lartii dist.	390 Jul 02 j 01:42	0°9	2.01742 AC
evening set	385 Nov 26 j 08:05	20° ₹ 29'15		morning rise	390 Jul 19 j 00:35	10°955'37	
	385 Dec 08 j 13:05	0°₹			390 Aug 18 j 00:08	0° N	
	386 Jan 15 j 14:50	0° ≈			390 Oct 05 j 01:40	0° m)	
					390 Nov 23 j 15:13	0ಂ ರ	
conjunction	386 Jan 30 j 15:13	11° ≈ 51′16			391 Jan 16 j 02:54	0°M₊	
minimum elong	386 Jan 30 j 15:49	11° ≈ 52′26	1°04'57	retrograde	391 Apr 09 j 07:26	27°M39'49	
	386 Feb 22 j 18:38	0° ℋ		desc. node	391 Apr 16 j 12:20	27°M20'13	
max. Earth dist.	386 Mar 11 j 22:06	13° ∺ 16′21	2.38220 AU	opposition	391 May 12 j 13:42	21°M17'51	-1°27'43
	386 Apr 02 j 21:42	0 ° Υ		greatest brilliancy	391 May 13 j 00:25	21°ML09'07	-2.4m
morning rise	386 Apr 10 j 08:23	5° Ƴ 34'43		min. Earth dist.	391 May 20 j 20:18	18°ML36'17	0.45486 AU
	386 May 13 j 17:58	0° ႘		direct	391 Jun 18 j 01:13	13°M32'01	
asc. node	386 Jun 23 j 23:31	28° 8 41'47			391 Aug 11 j 01:17	0° ∡ ¹	
	386 Jun 25 j 21:53	0°II			391 Sep 28 j 09:11	0°ठ	
	386 Aug 11 j 00:01	0°9			391 Nov 09 j 09:52	0° ≈	
	386 Sep 30 j 13:38	$0^{\circ}\Omega$			391 Dec 20 j 08:01	0°) €	
		0° m)				0° Υ	
	386 Dec 05 j 15:10			4-	392 Jan 30 j 21:22	9° Υ 50'56	
retrograde	387 Jan 05 j 16:23	5° m 07'38		asc. node	392 Feb 13 j 19:45		
	387 Feb 03 j 03:55	30°R€			392 Mar 13 j 21:07	0° B	
opposition	387 Feb 13 j 22:57	25° Ω 57′28			392 Apr 27 j 13:00	0°II	
greatest brilliancy	387 Feb 14 j 10:11	25° Ω 46′25		evening set	392 May 22 j 01:46	16° Ⅱ 03'47	
min. Earth dist.	387 Feb 17 j 04:32	24° Ω 41'20	0.66008 AU		392 Jun 12 j 15:07	0 \circ \odot	
direct	387 Mar 27 j 08:41	15° Ω 55'59					
	387 May 20 j 18:28	0° m		conjunction	392 Jul 09 j 08:31	17° © 07'19	1°05'06
desc. node	387 Jul 12 j 13:48	28° m 17'18		minimum elong	392 Jul 09 j 07:41	17° © 05'59	1°05'06
	387 Jul 15 j 08:55	0∘ ত		max. Earth dist.	392 Jul 13 j 09:37	19° © 42'14	2.66930 AU
	387 Aug 29 j 22:20	0° M.			392 Jul 29 j 13:25	$0^{\circ}\Omega$	
	387 Oct 10 j 06:45	0° ∡ ¹		morning rise	392 Aug 23 j 17:57	16° Ω 02'01	
	387 Nov 18 j 09:09	0°రె		•	392 Sep 14 j 15:54	0° m	
	387 Dec 26 j 12:50	0° ≈			392 Oct 31 j 12:35	0° ق	
	388 Feb 02 j 19:59	0°) €			392 Dec 17 j 03:29	0° M	
evening set	388 Feb 04 j 18:34	1°) (30′14			393 Feb 02 j 00:02	0° ∡ ¹	
e vennig set	388 Mar 13 j 04:32	0°Υ		desc. node	393 Mar 03 j 11:27	18° ∡ 127'14	
	300 Wai 13 j 04.32	0 1		dese. Hode	393 Mar 22 j 13:24	10 × 27 14 0°ਰ	
conjunction	388 Apr 08 j 22:50	19° Ƴ 42'21	0010151		·	0°≈	
5	1 0				393 May 20 j 01:21		
minimum elong	388 Apr 09 j 00:13	19° Y 44'51	0-1930	retrograde	393 Jun 25 j 04:55	7°≈35'50	(050150
	388 Apr 23 j 06:36	0°8		opposition	393 Jul 25 j 15:02	2°≈30'46	
asc. node	388 May 10 j 23:01	12° 8 27'59	0.51005 LYY	greatest brilliancy	393 Jul 25 j 11:19	2°≈33'15	
max. Earth dist.	388 May 19 j 11:49		2.51337 AU	min. Earth dist.	393 Jul 24 j 16:49		0.37421 AU
	388 Jun 05 j 11:19	$\Pi^{\circ 0}$			393 Aug 04 j 13:57	30°Ŗる	
morning rise	388 Jun 06 j 07:01	0° Ⅱ 33'19		direct	393 Aug 24 j 09:07	27° る 34'36	
	388 Jul 20 j 21:10	0°9			393 Sep 12 j 18:24	0° ≈	
	388 Sep 06 j 14:27	$0 {\circ} \Omega$			393 Nov 16 j 18:26	0° ∀	
	388 Oct 27 j 13:36	0° m		asc. node	393 Dec 31 j 19:44	27° ∺ 57'13	
	388 Dec 27 j 03:42	0∘ ⊽			394 Jan 04 j 00:32	0 ° Υ	
retrograde	389 Feb 13 j 23:19	11° ≏ 19'29			394 Feb 19 j 15:07	9° 8	
opposition	389 Mar 23 j 04:17	3° ഫ 11'08	2°49'21		394 Apr 07 j 11:45	Π $^{\circ}$ 0	
greatest brilliancy	389 Mar 23 j 22:08	2° £ 54'24	-1.7m		394 May 24 j 20:55	0° ©	
min. Earth dist.	389 Mar 30 j 02:10	0° ჲ 36'04	0.58179 AU	evening set	394 Jun 30 j 09:43	23° © 03'45	
	389 Mar 31 j 17:44	30°R, M⊅		Č	394 Jul 11 j 08:43	$0^{\circ}\Omega$	
direct	389 May 02 j 18:03	23° m 30'42		max. Earth dist.	394 Aug 05 j 21:32		2.66677 AU
desc. node	389 May 29 j 13:28	27° m/45'43			5 3		-
	389 Jun 05 j 11:07	2/ ក្រុ+3 +3 0° Ω		conjunction	394 Aug 15 j 06:55	22° Ω 16'07	1°07'08
	389 Aug 03 j 01:26	0° m .		minimum elong	394 Aug 15 j 07:29	22° Ω 17'02	1°07'08
	389 Sep 16 j 06:21	0° ⊼ 7		mmmum clong	394 Aug 27 j 07:06	0° mp	1 0/00
				morning rise			
	389 Oct 26 j 12:05	5°0		morning rise	394 Sep 28 j 21:39	21°Mp15'19 0° ≏	
	389 Dec 04 j 08:11	0° ≈			394 Oct 12 j 02:59		
	390 Jan 12 j 05:40	0° ∀			394 Nov 25 j 14:25	0° M 0° ₹	
	390 Feb 21 j 04:58	0° Υ			395 Jan 07 j 18:11	0° ∡ 7	
asc. node	390 Mar 28 j 20:44	25° Y 44'31		desc. node	395 Jan 19 j 10:34	8° ≯ 15'41	
	390 Apr 03 j 21:36	0°8			395 Feb 18 j 20:16	0°₹	

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	395 Apr 01 j 09:19	0° ≈			400 Feb 17 j 20:08	0°©	
	395 May 13 j 15:36	0° ∀			400 May 07 j 10:35	$0^{\circ}\Omega$	
	395 Jun 29 j 10:40	0° Υ			400 Jun 28 j 23:07	O° Mp	
retrograde	395 Aug 30 j 18:53	21° Y ′24'03			400 Aug 14 j 21:15	0∘ ⊽	
min. Earth dist.	395 Sep 27 j 22:30	15° Ƴ 58'46	0.46035 AU	desc. node	400 Sep 10 j 07:55	18° ≏ 02'38	
greatest brilliancy	395 Oct 05 j 09:41	13° Y ′22'01	-2.4m		400 Sep 27 j 06:07	0° M	
opposition	395 Oct 06 j 01:20	13° Ƴ 08'17	-2°22'21	evening set	400 Nov 02 j 12:02	26°M36'14	
direct	395 Nov 07 j 17:27	6° Ƴ 26'44			400 Nov 07 j 00:13	0° ≯	
asc. node	395 Nov 18 j 18:47	7° Υ 13'11		max. Earth dist.	400 Dec 04 j 03:19	20° х 45′56	2.38302 AU
	396 Jan 19 j 21:54	0° ႘			400 Dec 16 j 00:12	8°0	
	396 Mar 14 j 08:19	Π $^{\circ}0$					
	396 May 03 j 20:15	0 \circ \odot		conjunction	401 Jan 02 j 07:20	13° る 33'59	-0°59'59
	396 Jun 21 j 17:39	$0^{\circ}\Omega$		minimum elong	401 Jan 02 j 05:16	13° る 29'55	0°59'58
evening set	396 Aug 05 j 19:03	28° Ω 31′28			401 Jan 23 j 03:28	0° ≈	
	396 Aug 08 j 01:59	0° m)			401 Mar 02 j 07:50	0° ∀	
max. Earth dist.	396 Aug 29 j 14:25	14° m 01'29	2.61087 AU	morning rise	401 Mar 12 j 17:01	8° ∺ 03'39	
					401 Apr 10 j 10:30	0° Υ	
conjunction	396 Sep 21 j 04:11	29° m 02'39	0°42'33		401 May 21 j 06:41	0°B	
minimum elong	396 Sep 21 j 05:26	29° Mp 04'44	0°42'32		401 Jul 03 j 13:49	0°II	
	396 Sep 22 j 14:15	0° ™		asc. node	401 Jul 10 j 15:08	4° ∏ 41'43	
	396 Nov 05 j 03:19	0°M,			401 Aug 19 j 07:39	0°95	
morning rise	396 Nov 07 j 11:58	1°M39'54			401 Oct 11 j 15:17	0°Ω	
desc. node	396 Dec 06 j 09:20	22°M21'41		retrograde	401 Dec 22 j 17:23	22° Ω 16'22	402 4142
	396 Dec 16 j 20:28	0° ∡ ¹		opposition	402 Jan 31 j 11:37	12° Ω 49'28	4°34'43
	397 Jan 26 j 02:48	5°0		greatest brilliancy	402 Jan 31 j 17:06	12° Ω 44'02	-1.3m
	397 Mar 06 j 12:03	0° ≈ 0° ∀		min. Earth dist.	402 Feb 02 j 04:36 402 Mar 13 j 17:07	12° Ω 08'53 2° Ω 51'47	0.67345 AU
	397 Apr 14 j 19:29 397 May 25 j 05:25	0 Υ 0° Υ		direct	402 Mai 13 j 17.07 402 Jun 03 j 15:51	2 3 (3147 0° m)	
	397 Jul 07 j 18:25	0°8			402 Jul 24 j 15:19	0∘ ت ۱۱۱۸	
	397 Aug 30 j 08:11	0°II		desc. node	402 Jul 29 j 06:46	° – 2° – 59'05	
asc. node	397 Oct 05 j 17:10	10° ∏ 42'43		dese. Hode	402 Sep 07 j 03:56	0° ™	
retrograde	397 Oct 13 j 17:51	11° I I09'07			402 Oct 18 j 04:37	0° ∡ 7	
min. Earth dist.	397 Nov 16 j 05:24	3° П 39'59	0.58469 AU		402 Nov 26 j 04:05	0°ਤ	
opposition	397 Nov 22 j 03:41	1° Ⅲ 20′03	2°02'12		403 Jan 03 j 05:49	0° ≈	
greatest brilliancy	397 Nov 21 j 16:09	1° ∏ 31′24		evening set	403 Jan 07 j 17:26	3° ≈ 32'34	
8	397 Nov 25 j 14:01	30° ₹ 8		<i>8</i>	403 Feb 10 j 10:20	0°) €	
direct	397 Dec 29 j 02:31	22° 8 50'47			,		
	398 Feb 04 j 05:50	$\Pi^{\circ}0$		conjunction	403 Mar 15 j 21:16	25° ¥ 40'12	-0°43'31
	398 Apr 10 j 02:10	0ංම		minimum elong	403 Mar 16 j 00:09	25°) 45′38	0°43'29
	398 Jun 01 j 16:10	$0^{\circ}\Omega$			403 Mar 21 j 15:18	0° Y	
	398 Jul 20 j 07:57	0° m			403 May 01 j 13:36	0°8	
	398 Sep 04 j 02:13	0∘ ⊽		max. Earth dist.	403 May 03 j 11:52	1° 8 22'36	2.46119 AU
evening set	398 Sep 14 j 23:33	7° ≏ 24'18		morning rise	403 May 18 j 05:49	11° 8 47'58	
max. Earth dist.	398 Sep 30 j 06:25	17° ≏ 58'52	2.50669 AU	asc. node	403 May 28 j 13:58	18° 8 59'30	
	398 Oct 17 j 06:48	0° M			403 Jun 13 j 15:59	Π $^{\circ}0$	
desc. node	398 Oct 24 j 08:19	5° ™ 03'55			403 Jul 29 j 04:41	0 ം ഉ	
					403 Sep 15 j 14:19	0 $^{\circ}\Omega$	
conjunction	398 Nov 04 j 14:34	13°M 13'53		_	403 Nov 08 j 03:07	0° m)	
minimum elong	398 Nov 04 j 14:12	13°M 13'13	0°07'08	retrograde	404 Jan 29 j 06:39	26° m/45'11	20.46**=
behind sun begin	398 Nov 03 j 17:49	12°MJ36'04		opposition	404 Mar 07 j 11:17	18° Mp 08'46	3°40'07
behind sun end	398 Nov 05 j 10:34	13°M50'23		greatest brilliancy	404 Mar 08 j 04:48	17° mp 51'57	-1.5m
	398 Nov 27 j 07:01	0° ⊀ 7		min. Earth dist.	404 Mar 13 j 00:17	16° Mp 01'21	0.61985 AU
morning rise	398 Dec 30 j 13:03	25° ⊀ 15'10		direct	404 Apr 17 j 15:26	8° Mp 13'21	
	399 Jan 05 j 16:51	5°0		desc. node	404 Jun 15 j 05:00	24° m 52'33	
	399 Feb 13 j 05:43 399 Mar 23 j 17:28	0° ≈ 0° ∀			404 Jun 25 j 08:13 404 Aug 14 j 00:14	0° Մ	
	399 May 02 j 02:16	0° Υ			404 Sep 25 j 13:57	0° ⊼	
	399 Jun 12 j 09:13	0°8			404 Sep 23 j 13.37 404 Nov 04 j 04:33	0°る	
	399 Jul 27 j 01:54	0°II			404 Nov 04 j 04.33 404 Dec 12 j 15:42	0° ≈	
asc. node	399 Aug 23 j 16:51	16° ∏ 44'58			405 Jan 20 j 05:28	0° ∺	
350. 11000	399 Sep 17 j 08:39	0°9			405 Feb 28 j 20:59	0°Υ	
retrograde	399 Nov 19 j 04:06	18°942'11		evening set	405 Mar 15 j 09:27	10° Υ 41'14	
min. Earth dist.	399 Dec 27 j 04:40	9°9540'21	0.66101 AU	3. J	405 Apr 11 j 06:04	0°8	
opposition	399 Dec 29 j 08:58	8°947'57	4°04'34	asc. node	405 Apr 14 j 13:53	2° 8 21'02	
greatest brilliancy	399 Dec 29 j 00:19	8°956'38	-1.4m		r J 25.05	J2. V2	
3	400 Jan 27 j 19:39	30°RⅡ		conjunction	405 May 12 j 05:14	21° 8 32'40	0°16'42
direct	400 Feb 07 j 03:05	29° Ⅱ 19'24		minimum elong	405 May 12 j 04:21	21° 8 31'10	
	ž			J			

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	405 May 24 j 15:49	0°Щ		retrograde	410 Aug 08 j 10:14	25°) 45′09	
max. Earth dist.	405 Jun 08 j 23:22		2.58224 AU	min. Earth dist.	410 Sep 04 j 02:16	21°) €04'18	0.41240 AU
morning rise	405 Jul 03 j 12:05	26° Ⅱ 24'13		greatest brilliancy	410 Sep 10 j 05:01	19° ∺ 09'41	-2.7m
	405 Jul 09 j 00:56	0		opposition	410 Sep 11 j 06:16	18° ∺ 49'47	-4°44'24
	405 Aug 25 j 03:14	$\mathfrak{O}_{\circ} \mathfrak{O}$		direct	410 Oct 12 j 04:10	13° ∺ 04'20	
	405 Oct 12 j 22:42	0° m		asc. node	410 Dec 05 j 10:55	28°) €03′26	
	405 Dec 03 j 17:36	0∘ ত			410 Dec 09 j 14:10	0° Y	
	406 Feb 05 j 03:28	0°M			411 Feb 02 j 16:17	9° 8	
retrograde	406 Mar 16 j 14:59	7° ጤ 51'13			411 Mar 24 j 16:29	Π $^{\circ}0$	
opposition	406 Apr 20 j 16:33	0°M41'22	0°37'56		411 May 12 j 14:13	0 \circ \odot	
greatest brilliancy	406 Apr 20 j 22:10	0°M36'27	-2.1m		411 Jun 29 j 19:14	$0^{\circ}\Omega$	
	406 Apr 22 j 15:39	30° Ŗ Ω		evening set	411 Jul 23 j 04:31	14° Ω 46'58	
min. Earth dist.	406 Apr 29 j 02:16	27° ≏ 45'00	0.50725 AU		411 Aug 15 j 22:09	0° m)	
desc. node	406 May 03 j 04:07	26° ≙ 24'10		max. Earth dist.	411 Aug 20 j 14:17	3° m 01'28	2.63892 AU
direct	406 May 29 j 08:26	21° ≙ 54'06					
	406 Jul 05 j 04:31	0°M		conjunction	411 Sep 07 j 00:10	14° m 23'37	0°55'14
	406 Aug 28 j 18:37	0° ∡ ¹		minimum elong	411 Sep 07 j 01:19	14° m 25'31	0°55'14
	406 Oct 10 j 14:23	ర°0			411 Sep 30 j 12:12	0∘ ⊽	
	406 Nov 19 j 17:19	0° ≈		morning rise	411 Oct 22 j 18:17	15° ≏ 04'46	
	406 Dec 29 j 12:34	0° ∺		C	411 Nov 13 j 08:11	0° M	
	407 Feb 08 j 05:59	$_0$ ° γ		desc. node	411 Dec 24 j 01:48	28° M 57'51	
asc. node	407 Mar 02 j 12:35	15° Y 56'35			411 Dec 25 j 12:08	0° ∡ ¹	
	407 Mar 22 j 14:11	0°8			412 Feb 04 j 07:19	0°8	
	407 May 05 j 18:17	0°II			412 Mar 15 j 06:27	0° ≈	
evening set	407 May 06 j 02:13	0° Ⅱ 13'13			412 Apr 24 j 05:45	0°) €	
evening sec	407 Jun 20 j 13:00	0.2 2 12 12			412 Jun 04 j 17:03	0° Υ	
	407 Juli 20 j 15.00	٠ ٠			412 Jul 21 j 05:31	%8 0°8	
conjunction	407 Jun 25 j 05:12	3°501'08	0°56'59	retrograde	412 Sep 27 j 18:40	24° 8 05'28	
minimum elong	407 Jun 25 j 03:56	2°959'05	0°56'59	asc. node	412 Oct 22 j 09:27	19° 8 47'15	
max. Earth dist.	407 Jul 05 j 05:49	9° © 28'08	2.65527 AU	min. Earth dist.	412 Oct 22 j 09:27 412 Oct 29 j 04:27	17° 8 22'03	0.53972 AU
max. Earth dist.		9 3 28 08	2.03327 AU	opposition	412 Oct 29 j 04.27 412 Nov 05 j 08:47	17 8 22 03	0.33972 AU 0°39'58
morning rise	407 Aug 10 i 18:53	0° 0 2°Ω47'38			-	14° 8 41'38	-2.0m
morning rise	407 Aug 10 j 18:53			greatest brilliancy	412 Nov 05 j 04:03	6° 8 42'55	-2.UIII
	407 Sep 22 j 17:46	0 ் ம 0° மி		direct	412 Dec 10 j 19:46	0° П	
	407 Nov 09 j 08:25				413 Feb 23 j 03:46		
	407 Dec 27 j 14:12	0°M			413 Apr 19 j 18:42	0°©	
1 1	408 Feb 16 j 01:23	0° 🗷			413 Jun 09 j 10:47	0° N	
desc. node	408 Mar 20 j 03:38	17° ∡ 741'11			413 Jul 27 j 11:08	0° Mp	
	408 Apr 17 j 15:51	0°る		evening set	413 Aug 29 j 15:14	21° Tp 39'23	
retrograde	408 May 23 j 20:56	7° る 07'50	5020140	To all the	413 Sep 11 j 01:59	0° 亞	2.55277.444
opposition	408 Jun 23 j 09:28	2°る00'12		max. Earth dist.	413 Sep 16 j 11:53	3° 22 40'00	2.55277 AU
greatest brilliancy	408 Jun 24 j 04:13	1° る 47'18					
min. Earth dist.	408 Jun 27 j 19:04		0.38801 AU	conjunction	413 Oct 17 j 00:04	24° Ω 46'51	0°14'47
	408 Jun 30 j 18:17	30°₹ ৴		minimum elong	413 Oct 17 j 00:43	24° Ω 47'58	0°14'45
direct	408 Jul 25 j 02:08	26° ₹ 21'14		behind sun begin	413 Oct 16 j 15:54	24° △ 32'27	
	408 Aug 17 j 19:29	0°ಕ		behind sun end	413 Oct 17 j 09:31	25° Ω 03'29	
	408 Oct 17 j 00:36	0° ≈			413 Oct 24 j 09:05	0° M	
	408 Dec 01 j 17:18	0° ∀		desc. node	413 Nov 10 j 01:23	11° M 58'11	
	409 Jan 14 j 20:06	0°Υ 1° 00 4642			413 Dec 04 j 14:59	0° ⊀ ⁷	
asc. node	409 Jan 17 j 11:00	1° Y 46'42		morning rise	413 Dec 07 j 14:13	2° ∡ 12'32	
	409 Feb 28 j 11:24	0°B			414 Jan 13 j 07:26	0°ಕ	
	409 Apr 15 j 05:21	Π °0			414 Feb 21 j 02:28	0° ≈	
	409 May 31 j 23:26	0 \circ \odot			414 Mar 31 j 19:27	0° ∀	
evening set	409 Jun 15 j 13:54	9° © 17'29			414 May 10 j 09:45	0° Y	
	409 Jul 18 j 04:09	$0 {\circ} \Omega$			414 Jun 21 j 03:40	0°8	
max. Earth dist.	409 Jul 27 j 18:06	6° Ω 05'51	2.67422 AU		414 Aug 06 j 06:51	Π $\circ 0$	
				asc. node	414 Sep 09 j 07:27	18° Ⅲ 39'52	
conjunction	409 Aug 01 j 01:11	8° Ω 50'04			414 Oct 07 j 00:08	0 \circ	
minimum elong	409 Aug 01 j 01:13	8° Ω 50'07	1°09'31	retrograde	414 Nov 05 j 13:15	5° © 06'43	
	409 Sep 03 j 02:31	0° ™			414 Dec 03 j 01:08	30°RⅡ	
morning rise	409 Sep 14 j 14:46	7° m 25'35		min. Earth dist.	414 Dec 11 j 22:44	26° Ⅲ 37'11	0.63852 AU
	409 Oct 19 j 05:40	0∘ ⊽		opposition	414 Dec 15 j 14:55	25° Ⅱ 08'59	3°30'04
	409 Dec 03 j 08:13	0° M		greatest brilliancy	414 Dec 15 j 02:51	25° Ⅲ 21′04	-1.5m
	410 Jan 16 j 12:03	0° ∡ 7		direct	415 Jan 23 j 10:34	15° Ⅱ 59'17	
desc. node	410 Feb 05 j 02:18	13° ∡ °28′24			415 Mar 19 j 21:30	0 \circ	
	410 Mar 01 j 00:22	5°0			415 May 18 j 09:41	0 $^{\circ}$ Ω	
	410 Apr 13 j 16:33	0° ≈			415 Jul 07 j 21:22	0° ™	
	410 May 30 j 07:27	0°) €			415 Aug 23 j 05:38	0∘ ⊽	

desc. node	415 Sep 27 j 23:50	24° £ 39'53		behind sun end	420 Apr 22 j 17:27	2° 8 58'50	
	415 Oct 05 j 11:46	0° M.		asc. node	420 May 01 j 05:17	8° 8 57'57	
evening set	415 Oct 13 j 12:07	5°M45'54		max. Earth dist.	420 May 27 j 12:56	27° 8 08'26	2.53986 AU
max. Earth dist.	415 Oct 30 j 01:05	17° M 51'34	2.42865 AU		420 May 31 j 18:01	Π $^{\circ}0$	
	415 Nov 15 j 07:46	0° ⊼ ¹		morning rise	420 Jun 16 j 16:08	10° Ⅱ 41'27	
	J			Ç	420 Jul 16 j 02:19	0ಂತಾ	
conjunction	415 Dec 08 j 13:02	17° ∡ ¹40'50	-0°42'51		420 Sep 01 j 12:01	$0^{\circ}\Omega$	
minimum elong	415 Dec 08 j 10:43	17° ∡ 36′22			420 Oct 21 j 10:55	0° m	
minimum clong	415 Dec 24 j 11:00	0°る	0 42 30			0∘ ʊ 0 ıı⁄ı	
					420 Dec 16 j 07:17		
	416 Jan 31 j 17:17	0° ≈		retrograde	421 Feb 24 j 08:59	20° £ 43'32	
morning rise	416 Feb 11 j 09:28	8° ≈ 23'58		opposition	421 Apr 01 j 21:55	12° £ 53'51	2°09'12
	416 Mar 09 j 23:32	0° ∀		greatest brilliancy	421 Apr 02 j 13:29	12° ≏ 39'33	-1.8m
	416 Apr 18 j 02:58	0 ° $\mathbf{\gamma}$		min. Earth dist.	421 Apr 09 j 11:43	10° ≏ 07'07	0.55707 AU
	416 May 29 j 00:31	9° 8		direct	421 May 11 j 23:36	3° ₽ 27'26	
	416 Jul 11 j 14:18	Π $^{\circ}0$		desc. node	421 May 19 j 19:56	3° ≏ 51'38	
asc. node	416 Jul 27 j 07:24	10° Ⅱ 14′02			421 Jul 25 j 17:55	0°M	
	416 Aug 28 j 10:52	0ಂತಾ			421 Sep 09 j 20:43	0° ∡ ¹	
	416 Oct 26 j 22:29	$0^{\circ}\Omega$			421 Oct 20 j 18:05	0°⋜	
retrograde	416 Dec 09 j 05:34	9° Ω 34'23			421 Nov 28 j 22:29	0° ≈	
-	417 Jan 18 j 07:10	29° © 54'04	1022126		-	0° ∺	
opposition	·				422 Jan 07 j 01:48	0 Υ 0° Υ	
greatest brilliancy	417 Jan 18 j 06:41	29° © 54'33	-1.3m		422 Feb 16 j 05:42		
min. Earth dist.	417 Jan 18 j 11:41	29° © 49'34	0.67640 AU	asc. node	422 Mar 19 j 04:28	22° Y 18′50	
	417 Jan 18 j 01:13	30° ₹ 5			422 Mar 30 j 02:15	$_{0\circ}$ 8	
direct	417 Feb 28 j 02:41	20° © 04'32		evening set	422 Apr 17 j 15:10	12° 8 51'48	
	417 Apr 14 j 08:37	$0^{\circ}\Omega$			422 May 12 j 21:10	Π $^{\circ}0$	
	417 Jun 14 j 05:57	0° m					
	417 Aug 02 j 00:21	0० ⊽		conjunction	422 Jun 09 j 04:52	18° Ⅱ 06'51	0°44'41
desc. node	417 Aug 14 j 22:17	8° ഫ 33'16		minimum elong	422 Jun 09 j 03:23	18° Ⅱ 04'26	0°44'41
	417 Sep 14 j 22:26	0°M		max. Earth dist.	422 Jun 25 j 18:09	28° ∏ 54'36	2.63317 AU
	417 Oct 25 j 19:13	0° ⊼ ¹		max. Lurin dist.	422 Jun 27 j 10:30	0°9	2.03317710
		0° ਣ		morning rise	-	19° © 18'30	
. ,	417 Dec 03 j 18:01			morning rise	422 Jul 27 j 11:31		
evening set	417 Dec 11 j 01:10	5° ප 43'16			422 Aug 13 j 07:07	$\Omega^{\circ}\Omega$	
	418 Jan 10 j 19:36	0° ≈			422 Sep 30 j 01:01	0°Щ	
					422 Nov 17 j 17:41	0∘ ⊽	
conjunction	418 Feb 15 j 23:24	28° ≈ 26'38	-1°00'48		423 Jan 07 j 15:33	0° M	
minimum elong	418 Feb 16 j 01:37	28° ≈ 30'58	1°00'48		423 Mar 08 j 11:32	0° ∡ 7	
	418 Feb 17 j 23:17	0° ∀		desc. node	423 Apr 06 j 19:20	9° ∡ 08'11	
	418 Mar 29 j 02:18	$0^{\circ}\mathbf{\Upsilon}$		retrograde	423 Apr 24 j 11:46	10° ∡ 57′38	
max. Earth dist.	418 Apr 07 j 08:04	6° Ƴ 54'57	2.40774 AU	opposition	423 May 26 j 18:12	5° ∡ ¹04'36	-2°54'25
morning rise	418 Apr 25 j 00:30	19° Y 56'56		greatest brilliancy	423 May 27 j 12:32	4° ∡ ′50′25	
	418 May 08 j 22:19	0°8		min. Earth dist.	423 Jun 03 j 06:22	2° х 46′03	0.42711 AU
asc. node	418 Jun 14 j 06:58	25° 8 26'04		min. Zarin digi.	423 Jun 13 j 17:22	30°RM₁	02/11110
asc. node	418 Jun 21 j 00:09	0°II		direct	-	28°M03'15	
	·			direct	423 Jun 30 j 14:14		
	418 Aug 05 j 18:57	0° ©			423 Jul 17 j 13:48	0° ∡ 7	
	418 Sep 24 j 06:57	0 $^{\circ}\Omega$			423 Sep 18 j 19:58	0°る	
	418 Nov 21 j 23:53	0° m			423 Nov 02 j 02:41	0° ≈	
retrograde	419 Jan 13 j 23:24	13°Mp07'21			423 Dec 14 j 02:10	0°) €	
opposition	419 Feb 21 j 22:22	4° ™ 07'59	4°12'36		424 Jan 25 j 07:11	0 ° $\mathbf{\gamma}$	
greatest brilliancy	419 Feb 22 j 12:20	3° Mp 54′22	-1.4m	asc. node	424 Feb 04 j 03:21	6° Ƴ 53'06	
min. Earth dist.	419 Feb 26 j 00:10	2° Mp 32'44	0.64854 AU		424 Mar 08 j 17:44	$8^{\circ 0}$	
	419 Mar 04 j 18:55	30° ₽ Ω			424 Apr 22 j 16:52	$\Pi^{\circ}0$	
direct	419 Apr 04 j 08:30	24° Ω 06'37		evening set	424 May 31 j 05:13	25° Ⅱ 00'49	
	419 May 07 j 08:57	0° m		8.11	424 Jun 07 j 23:29	0.00	
desc. node	419 Jul 02 j 21:23	26° m/34'10				· -	
desc. Hode	419 Jul 08 j 18:28	0° ഫ		conjunction	424 Jul 17 j 16:55	25° 5 22'29	1°07'52
				·			
	419 Aug 24 j 09:43	0°M		minimum elong	424 Jul 17 j 16:23	25°521'39	
	419 Oct 05 j 03:03	0° ∡ ¹		max. Earth dist.	424 Jul 18 j 16:45		2.67341 AU
	419 Nov 13 j 09:01	0°る		_	424 Jul 24 j 23:14	$0^{\circ}\Omega$	
	419 Dec 21 j 14:39	0° ≈		morning rise	424 Aug 31 j 15:59	24° Ω 02'00	
	420 Jan 28 j 23:18	0°) €			424 Sep 09 j 23:47	0° m ∕	
evening set	420 Feb 19 j 19:32	16°) √ 45'47			424 Oct 26 j 13:25	0∘ ত	
	420 Mar 08 j 09:12	0 ° Υ			424 Dec 11 j 13:10	0° M	
	420 Apr 18 j 12:40	8° 0			425 Jan 26 j 04:58	0° ∡ ¹	
	- ¥			desc. node	425 Feb 21 j 19:30	17° ∡ ¹25'32	
conjunction					<i>J</i>		
	420 Apr 21 i 17:58	2° 8 17'16	-0°05'56		425 Mar 13 i 05:27	0°ප	
·	420 Apr 21 j 17:58 420 Apr 21 j 18:22	2° 8 17'16 2° 8 17'58			425 Mar 13 j 05:27 425 May 01 i 02:10	0°る 0°≈	
minimum elong behind sun begin	420 Apr 21 j 17:58 420 Apr 21 j 18:22 420 Apr 20 j 19:17	2°817'16 2°817'58 1°837'03		retrograde	425 Mar 13 j 05:27 425 May 01 j 02:10 425 Jul 12 j 13:13	0°る 0°≈ 25°≈52'35	

min. Earth dist.	425 Aug 08 j 22:25		0.38001 AU		430 Oct 12 j 15:10	0°M	
opposition	425 Aug 12 j 19:26	20° ≈ 20'38		desc. node	430 Oct 14 j 16:00	1°M27'19	
greatest brilliancy	425 Aug 12 j 01:57	20°≈32'42	-2.9m				
direct	425 Sep 11 j 08:13	15°≈20'08		conjunction	430 Nov 16 j 02:01	25°M08'17	
	425 Nov 02 j 23:46	0° ∀		minimum elong	430 Nov 16 j 00:54	25°M06'12	0°20'21
asc. node	425 Dec 22 j 01:42	27° ∺ 00'35			430 Nov 22 j 14:14	0° ∡ ″	
	425 Dec 27 j 00:57	0° Ƴ			430 Dec 31 j 21:41	0°ප	
	426 Feb 13 j 10:57	0° 8		morning rise	431 Jan 13 j 23:55	10° る 10'36	
	426 Apr 02 j 04:06	$\Pi^{\circ}0$			431 Feb 08 j 07:49	0° ≈	
	426 May 20 j 00:11	0°€			431 Mar 18 j 17:01	0° ℋ	
	426 Jul 06 j 17:15	$0^{\circ}\Omega$		greatest brilliancy	431 Mar 22 j 02:21	2° 升 37'38	1.2m
evening set	426 Jul 08 j 17:53	1° Ω 16′53			431 Apr 26 j 22:49	0 ° $\mathbf{\Upsilon}$	
max. Earth dist.	426 Aug 11 j 06:11	22° Ω 37'26	2.65919 AU		431 Jun 07 j 00:29	8° 0	
	426 Aug 22 j 17:02	0° m y			431 Jul 21 j 03:21	$\Pi^{\circ}0$	
				asc. node	431 Aug 13 j 23:24	14° Ⅱ 57'53	
conjunction	426 Aug 23 j 11:14	0° Mp 29'24	1°03'54		431 Sep 09 j 02:08	0°€	
minimum elong	426 Aug 23 j 12:03	0° m/30'44	1°03'54	retrograde	431 Nov 26 j 21:08	26°5942'35	
morning rise	426 Oct 07 j 07:41	29° m 54'47		min. Earth dist.	432 Jan 04 j 18:17	17° © 24'10	0.66924 AU
S	426 Oct 07 j 10:49	0∘ <u>⊽</u>		opposition	432 Jan 06 j 02:00	16°©52'25	4°18'33
	426 Nov 20 j 16:29	0° M .		greatest brilliancy	432 Jan 05 j 20:01	16°958'24	-1.3m
	427 Jan 02 j 11:11	0° ∡ ¹		direct	432 Feb 15 j 06:23	7°9315'15	
desc. node	427 Jan 09 j 17:56	5° ∡ 12'02			432 Apr 29 j 19:30	0°N	
desc. node	427 Feb 13 j 00:41	0°る			432 Jun 23 j 08:51	0° m/y	
	427 Mar 25 j 21:05	0° ≈			432 Aug 09 j 21:02	0∘ ಹ ೧.1%	
	427 May 06 j 00:20	0° ∺		desc. node	432 Aug 31 j 14:31	0 — 14° Ω 40'53	
	427 Jun 18 j 18:53	0° Υ		desc. node	432 Sep 22 j 10:42	0°M	
		0° 8				0°11℃	
	427 Aug 16 j 03:23				432 Nov 02 j 06:17	0° × ¹ 10° × ¹07'15	
retrograde	427 Sep 10 j 23:24	4° 8 26'53		evening set	432 Nov 15 j 13:44		
	427 Oct 06 j 01:19	30° ₹ Υ	0.400=0.477		432 Dec 11 j 06:06	0°ප	
min. Earth dist.	427 Oct 10 j 05:12	28° Y 34'15					
opposition	427 Oct 18 j 06:08	25° Y 38'33		conjunction	433 Jan 18 j 00:04	29° る 43'06	
greatest brilliancy	427 Oct 17 j 22:28	25° Y 45'32	-2.3m	minimum elong	433 Jan 17 j 23:18	29° る 41'34	1°04'38
asc. node	427 Nov 09 j 01:11	19° Y ′26′28			433 Jan 18 j 08:38	0° ≈	
direct	427 Nov 20 j 22:50	18° Y ′28'49		max. Earth dist.	433 Jan 23 j 03:19	3°≈46′26	2.37162 AU
	428 Jan 07 j 16:50	0°B			433 Feb 25 j 12:17	0° ∀	
	428 Mar 07 j 13:40	$\Pi^{\circ}0$		morning rise	433 Mar 29 j 04:26	24°) 23′52	
	428 Apr 28 j 10:06	0 \circ			433 Apr 05 j 14:08	0 ° $\mathbf{\gamma}$	
	428 Jun 16 j 20:33	$0 {\circ} \Omega$			433 May 16 j 08:53	9° 8	
	428 Aug 03 j 10:19	0° m y			433 Jun 28 j 12:18	Π $^{\circ}0$	
evening set	428 Aug 14 j 07:27	7° Mg 02′26		asc. node	433 Jun 30 j 22:27	1° Ⅲ 37'47	
max. Earth dist.	428 Sep 04 j 19:00	21° Mp 10'01	2.59212 AU		433 Aug 13 j 18:13	0ං වෙ	
	428 Sep 17 j 23:43	0∘ 亚			433 Oct 04 j 03:28	$0^{\circ}\Omega$	
					433 Dec 27 j 02:55	O° Mp	
conjunction	428 Sep 30 j 05:09	8° ≙ 17'51	0°33'25	retrograde	433 Dec 30 j 15:36	0° Mp 04'37	
minimum elong	428 Sep 30 j 06:17	8° ≙ 19'49	0°33'24		434 Jan 03 j 03:19	30° R Ω	
	428 Oct 31 j 10:46	0° M .		opposition	434 Feb 08 j 04:18	20° Ω 46'34	4°30'17
morning rise	428 Nov 17 j 18:15	12°M20'41		greatest brilliancy	434 Feb 08 j 13:05	20° Ω 37'55	-1.3m
desc. node	428 Nov 26 j 16:49	18°ML48'32		min. Earth dist.	434 Feb 10 j 18:01	19° Ω 45'45	0.66729 AU
	428 Dec 12 j 00:00	0° ∡ ¹		direct	434 Mar 21 j 13:05	10° Ω 46′02	
	429 Jan 21 j 01:11	0°ಕ			434 May 26 j 09:58	0° m	
	429 Mar 01 j 04:51	0° ≈			434 Jul 18 j 18:41	0° ٽ	
	429 Apr 09 j 06:10	0° ∀		desc. node	434 Jul 19 j 13:08	0° ჲ 28'51	
	429 May 19 j 06:38	$0^{\circ}\mathbf{Y}$			434 Sep 01 j 22:05	0°M	
	429 Jun 30 j 21:37	0°8			434 Oct 13 j 04:15	0° ∡ 7	
	429 Aug 19 j 04:06	0°II			434 Nov 21 j 05:55	0° ਰ	
asc. node	429 Sep 26 j 00:43	16° Ⅱ 16'21			434 Dec 29 j 08:48	0° ≈	
retrograde	429 Oct 22 j 07:24	20° I I30'47		evening set	435 Jan 23 j 15:34	0 ~ 19° ≈ 53'41	
min. Earth dist.	429 Nov 25 j 20:55	12° II 38'38	0.60619 AU	January 301	435 Feb 05 j 14:26	0° ∺	
greatest brilliancy	429 Nov 30 j 11:19	12 ∏ 3838 10° ∏ 49'09	-1.6m		435 Mar 16 j 20:26	0° Υ	
opposition	429 Nov 30 j 11.19 429 Dec 01 j 00:12	10 П 4909 10° П 36'21	2°39'49		-133 Iviai 10 J 20.20	V I	
direct	430 Jan 07 j 16:18	10° Ц 3621 1° Ц 51'00	4 39 4 7	conjunction	435 Mar 30 j 10:16	10° Y 06'08	0.30,30
uncci				-	•		
	430 Apr 02 j 20:10	0° U 0∘©		minimum elong	435 Mar 30 j 12:25	10° Y 10'06 0° ႘	0 30 19
	430 May 27 j 04:30			may Earth 11 t	435 Apr 26 j 19:33		2 40050 411
	430 Jul 15 j 10:11	0° m)		max. Earth dist.	435 May 13 j 15:26		2.49059 AU
	430 Aug 30 j 09:39	0° <u>ი</u>		asc. node	435 May 18 j 21:58	15° 8 34'57	
evening set	430 Sep 24 j 19:58	17° £ 26′02	2.470.47 433	morning rise	435 May 29 j 22:34	23° 8 11'57	
max. Earth dist.	430 Oct 09 j 08:16	∠1~ ≥± 39°26	2.47947 AU		435 Jun 08 j 21:46	Π $^{\circ}0$	

•			. ,,			1 0	
	435 Jul 24 j 07:09	0°©		asc. node	441 Jan 07 j 18:36	29°) 39'14	
	435 Sep 10 j 05:07	$0^{\circ}\Omega$			441 Jan 08 j 07:12	0° Υ	
	435 Nov 01 j 00:18	0° m)			441 Feb 22 j 20:51	0°B	
	436 Jan 06 j 12:50	0∘ <u>v</u>			441 Apr 10 j 03:45	0°II	
retrograde	436 Feb 07 j 13:38	5° Ω 22'08			441 May 27 j 05:14	0ം ഉ	
, and the second	436 Mar 08 j 01:05	30°R.™		evening set	441 Jun 24 j 03:11	17° © 40'52	
opposition	436 Mar 16 j 06:07	27° mp 00'30	3°13'00	Č	441 Jul 13 j 13:32	$0^{\circ}\Omega$	
greatest brilliancy	436 Mar 17 j 00:15	26° Mp 43'19	-1.6m	max. Earth dist.	441 Aug 02 j 01:41	12° Ω 24'33	2.67122 AU
min. Earth dist.	436 Mar 22 j 14:15	24° m/36'34	0.59991 AU		C 3		
direct	436 Apr 26 j 04:02	17° m 11'46		conjunction	441 Aug 09 j 05:08	16° Ω 58′20	1°08'36
desc. node	436 Jun 05 j 12:58	26° Mp 03'34		minimum elong	441 Aug 09 j 05:29	16° Ω 58'53	1°08'36
	436 Jun 14 j 21:02	0∘ ⊽		-	441 Aug 29 j 12:14	0° m)	
	436 Aug 07 j 09:50	0°M		morning rise	441 Sep 22 j 17:49	15° m 42'59	
	436 Sep 19 j 20:34	0° ∡ ¹			441 Oct 14 j 11:46	0° ∿	
	436 Oct 29 j 19:28	0°ප			441 Nov 28 j 06:10	0° M	
	436 Dec 07 j 11:09	0° ≈			442 Jan 10 j 20:20	0° ∡ ¹	
	437 Jan 15 j 04:29	0°) €		desc. node	442 Jan 26 j 10:04	10° ∡ 53′29	
	437 Feb 23 j 23:09	0 ° Υ			442 Feb 22 j 12:04	5°0	
evening set	437 Mar 28 j 03:52	23° Y 23'50			442 Apr 05 j 19:31	0° ≈	
asc. node	437 Apr 04 j 19:54	28° Y 50'44			442 May 19 j 09:01	0° ∀	
	437 Apr 06 j 11:07	0° ႘			442 Jul 09 j 20:12	0° Υ	
	437 May 19 j 23:07	Π $^{\circ}0$		retrograde	442 Aug 21 j 12:22	11° Y 13'14	
				min. Earth dist.	442 Sep 17 j 21:23	6° Ƴ 09'54	0.43777 AU
conjunction	437 May 22 j 21:14	1° Ⅱ 58′03	0°28'08	opposition	442 Sep 25 j 19:41	3° Ƴ 30'32	-3°22'56
minimum elong	437 May 22 j 19:58	1° Ⅱ 55'55	0°28'07	greatest brilliancy	442 Sep 24 j 22:35	3° Ƴ 48'16	-2.5m
max. Earth dist.	437 Jun 15 j 09:07	17° Ⅱ 35'45	2.60278 AU		442 Oct 07 j 07:28	30° ₹ ₩	
	437 Jul 04 j 08:39	0ಂ ತಾ		direct	442 Oct 27 j 15:44	27°) 13′51	
morning rise	437 Jul 12 j 12:07	5° ॐ 16′07			442 Nov 18 j 01:05	0 ° $\mathbf{\Upsilon}$	
	437 Aug 20 j 07:37	$0 {\circ} \Omega$		asc. node	442 Nov 25 j 17:48	2° Y 08'17	
	437 Oct 07 j 15:35	O° m y			443 Jan 25 j 14:12	0 \circ 8	
	437 Nov 27 j 00:04	0∘ ⊽			443 Mar 18 j 17:31	Π °0	
	438 Jan 22 j 06:21	0°M			443 May 07 j 11:03	0ంత	
retrograde	438 Mar 29 j 12:12	19°M05'46			443 Jun 25 j 01:01	0 \circ Ω	
desc. node	438 Apr 23 j 11:55	15°M15'00		evening set	443 Jul 31 j 12:52	23° Ω 04'18	
opposition	438 May 02 j 14:18	12°M21'18			443 Aug 11 j 07:33	0° m)	
greatest brilliancy	438 May 02 j 18:08	12°M18'04		max. Earth dist.	443 Aug 26 j 09:32	9° m) 47′42	2.62441 AU
min. Earth dist.	438 May 11 j 01:34	9°M29'37	0.47836 AU		442.0 15:14.12	220m 0 (142	0040101
direct	438 Jun 09 j 03:26	4°M04'36		conjunction	443 Sep 15 j 14:13	23° Mp 06'42	
	438 Aug 19 j 08:22	0° ∡ ¹		minimum elong	443 Sep 15 j 15:27	23° Mp 08'46	0°48′21
	438 Oct 03 j 12:37	0°る		mamina riaa	443 Sep 25 j 21:30	ე^ი <u>ი</u> ე∘ <u>ი</u>	
	438 Nov 13 j 12:55	0 ≈ 0°) (morning rise	443 Nov 01 j 02:42	24° £ 45'53 0° ™	
	438 Dec 23 j 20:50 439 Feb 02 j 23:19	0°Υ		desc. node	443 Nov 08 j 14:32 443 Dec 14 j 08:53	25°M30'29	
asc. node	439 Feb 20 j 18:47	12° Υ '40'57		desc. Hode	443 Dec 20 j 13:13	25 11 c 30 29	
asc. node	439 Mar 17 j 14:22	0°8			444 Jan 30 j 01:36	0°ਤੇ	
	439 Apr 30 j 23:38	0°II			444 Mar 09 j 16:39	0°≈	
evening set	439 May 15 j 23:03	9° ∏ 52'50			444 Apr 18 j 06:00	0° ₩	
e renning sec	439 Jun 15 j 21:31	0.82 0.52			444 May 28 j 23:49	0° Υ	
					444 Jul 12 j 09:13	0°8	
conjunction	439 Jul 03 j 23:31	11° © 37'30	1°02'12		444 Sep 10 j 08:54	0°II	
minimum elong	439 Jul 03 j 22:29	11° © 35'51	1°02'12	retrograde	444 Oct 07 j 02:37	4° Ⅱ 31′05	
max. Earth dist.	439 Jul 10 j 16:13	15° © 54'37	2.66413 AU	asc. node	444 Oct 12 j 15:58	4° Ⅱ 17'51	
	439 Aug 01 j 18:21	$0^{\circ}\Omega$			444 Nov 01 j 09:57	30° ₹ 8	
morning rise	439 Aug 18 j 19:46	10° Ω 50′52		min. Earth dist.	444 Nov 08 j 16:03	27° 8 21'39	0.56542 AU
	439 Sep 17 j 23:13	o° mp		opposition	444 Nov 15 j 04:19	24° 8 49'33	1°30'33
	439 Nov 04 j 03:13	0∘ ত		greatest brilliancy	444 Nov 14 j 18:49	24° 8 58'49	-1.8m
	439 Dec 21 j 09:13	0°M		direct	444 Dec 21 j 12:05	16° 8 34'51	
	440 Feb 07 j 12:27	0° ∡ 7			445 Feb 12 j 17:58	Π $^{\circ}0$	
desc. node	440 Mar 10 j 10:48	18° ∡ ′59′07			445 Apr 13 j 13:30	0ං ම	
	440 Mar 30 j 07:27	0°ಕ			445 Jun 04 j 06:37	0 $^{\circ}$ Ω	
retrograde	440 Jun 11 j 02:19	24° る 17'32			445 Jul 22 j 16:26	0° m	
opposition	440 Jul 11 j 06:24	19°る19'05			445 Sep 06 j 10:21	0∘ ⊽	
greatest brilliancy	440 Jul 11 j 14:51	19° る 13'27		evening set	445 Sep 07 j 19:48	0° ≏ 56'27	0.50=0= :==
min. Earth dist.	440 Jul 12 j 20:38		0.37657 AU	max. Earth dist.	445 Sep 24 j 01:12	12° 2 01'01	2.52795 AU
direct	440 Aug 10 j 16:10	14° る 11'28			445 Oct 19 j 17:09	0° M	
	440 Oct 03 j 04:04 440 Nov 23 j 07:54	0° ₩		conjunction	445 Oct 27 j 08:03	5°M26'59	0.002,53
		V /\		COMMUNICATION	 5 OCL 4/ U0.U3	J 116∠0 J9	0 04 34

minimum elong	445 Oct 27 j 08:09	5° M 27′08	0°02'31		450 Jul 31 j 16:21	0	
behind sun begin	445 Oct 26 j 10:40	4°M48'36			450 Sep 18 j 09:55	$0 {\circ} \Omega$	
behind sun end	445 Oct 28 j 05:38	6°M05'43			450 Nov 12 j 11:32	0° m	
desc. node	445 Oct 31 j 07:46	8° M ₁9'14		retrograde	451 Jan 22 j 13:45	21°Mp17'49	
	445 Nov 29 j 20:53	0° ∡ ¹		opposition	451 Mar 02 j 03:32	12° Tp 30'39	3°55'23
morning rise	445 Dec 20 j 03:38	15° ∡ 15'39		greatest brilliancy	451 Mar 02 j 19:45	12° m) 15'00	-1.5m
	446 Jan 08 j 10:19	0° ਰ		min. Earth dist.	451 Mar 07 j 01:25	10° Tp 36'49	0.63394 AU
	446 Feb 16 j 02:01	0° ≈		direct	451 Apr 12 j 11:37	2°m/31'30	
	446 Mar 26 j 15:46	0° ∀		desc. node	451 Jun 23 j 04:38	25° Tp 34'36	
	446 May 05 j 01:54	0° Υ			451 Jul 01 j 07:49	0∘ 亚	
	446 Jun 15 j 11:15	0° B			451 Aug 18 j 13:37	0°M 0°. ₹	
1	446 Jul 30 j 13:33	0°II			451 Sep 29 j 18:57	0° ₹	
asc. node	446 Aug 30 j 15:35	18° Ⅱ 15'48			451 Nov 08 j 06:13	5°0	
	446 Sep 23 j 02:37	0°55			451 Dec 16 j 14:43	0° ≈	
retrograde	446 Nov 13 j 10:27	13°926'54	0.65216.411		452 Jan 24 j 01:33	0° ∀ 0° Υ	
min. Earth dist.	446 Dec 20 j 18:13	4°938'44	0.65216 AU		452 Mar 03 j 13:28	0° γ 1° Υ '05'54	
opposition	446 Dec 23 j 14:14	3°930'35		evening set	452 Mar 05 j 00:53		
greatest brilliancy	446 Dec 23 j 03:48	3°541′02	-1.4m	4.	452 Apr 13 j 18:32	0°8	
J:4	447 Jan 01 j 15:39	30°RⅡ 24°Ⅲ00147		asc. node	452 Apr 21 j 12:30	5° 8 28'52	
direct	447 Jan 31 j 22:41	24° Ⅱ 09'47			450 M 02 : 16-22	120 9 50112	0007120
	447 Mar 06 j 12:43	0.ಕಿ		conjunction	452 May 03 j 16:22	13° 8 59'12	0°07'30
	447 May 12 j 00:45	0° Ω		minimum elong	452 May 03 j 15:56	13° 8 58'26	0°07'30
	447 Jul 02 j 16:09	0° m)		behind sun begin	452 May 02 j 18:55	13° 8 21'56	
desc. node	447 Aug 18 j 09:34	0° ჲ 21° ჲ 09'55		behind sun end	452 May 04 j 12:57	14° ႘ 34'55 0°Ⅱ	
desc. node	447 Sep 18 j 07:07			may Earth dist	452 May 27 j 00:53 452 Jun 03 j 21:25		2 56400 AII
avanina aat	447 Sep 30 j 18:28	0°M		max. Earth dist.	-		2.56409 AU
evening set	447 Oct 25 j 01:45	17° ™ 39'57 0° <i>⊀</i> 7		morning rise	452 Jun 26 j 11:38	20°Ⅲ18'12 0°©	
may Earth dist	447 Nov 10 j 14:26	0 x . 4° x 13'09	2.40154 AU		452 Jul 11 j 08:06	0°€ 0 €	
max. Earth dist.	447 Nov 16 j 04:27	4 x ·1309	2.40134 AU		452 Aug 27 j 12:13		
	447 Dec 19 j 16:26	0-0			452 Oct 15 j 17:07	0 ் ம 0 ் மி	
conjunction	447 Dec 22 j 16:39	2° る 20'52	0.053143		452 Dec 07 j 19:44 453 Feb 24 j 23:46	0°M	
minimum elong	447 Dec 22 j 16:39 447 Dec 22 j 14:10	2 02032 2° る 16'02		retrograde		0°M38'47	
minimum ciong	•	2 01002 0°≈	0 3341	renograde	453 Mar 07 j 12:25	0 IIდ3647 30°Ŗ Ω	
morning rise	448 Jan 26 j 21:02 448 Feb 28 j 11:34	0 ≈ 25°≈38'00		opposition	453 Mar 17 j 16:43 453 Apr 12 j 06:27	30 K== 23° £ 10'05	1°20'25
morning rise	448 Mar 05 j 01:52	23 ≈3800 0° ∺		greatest brilliancy	453 Apr 12 j 17:24	23° £ 10'03	
		0° Υ		min. Earth dist.	453 Apr 20 j 08:40	23 ≅ 00 13 20° £ 15'57	0.53022 AU
	448 Apr 13 j 04:01 448 May 23 j 23:17	0°8		desc. node	453 May 10 j 03:31	20 ⊆ 13 37 14° ⊆ 56'46	0.33022 AU
	, ,	0°II			• •	14° ⊆ 3040	
asc. node	448 Jul 06 j 07:14 448 Jul 17 j 14:21	7° Ⅱ 28'17		direct	453 May 21 j 15:18 453 Jul 15 j 04:15	0°M	
asc. Houe	448 Aug 22 j 08:16	7 ப 2817 0°9			453 Sep 02 j 18:44	0° ⊼	
	448 Oct 16 j 08:15	0° U			453 Oct 14 j 15:18	0° ठ	
retrograde	448 Dec 16 j 22:26	17° Ω 19'31			453 Nov 23 j 06:51	0°≈	
opposition	449 Jan 25 j 20:45	7° Ω 46'21	4°35'07		454 Jan 01 j 17:44	0° ∀	
greatest brilliancy	449 Jan 25 j 23:37	7°Ω43'30			454 Feb 11 j 03:46	0° Υ	
min. Earth dist.	449 Jan 26 j 21:50		0.67609 AU	asc. node	454 Mar 09 j 11:39	18° Υ 55'59	
iiiii. Eartii dist.	449 Feb 17 j 15:41	30°R.55	0.07009 AU	asc. node	454 Mar 25 j 05:11	0° 8	
direct	449 Mar 07 j 22:32	27° 9 51'41		evening set	454 Apr 28 j 08:37	23° 8 24'57	
unect	449 Mar 27 j 09:32	0° Ω		evening sec	454 May 08 j 03:53	0°Ⅱ	
	449 Jun 07 j 14:45	0° m)			13 1 May 00 J 03.33	v –	
	449 Jul 27 j 15:07	0∘ ಹ		conjunction	454 Jun 18 j 11:54	27° Ⅱ 12'51	0°52'20
desc. node	449 Aug 05 j 06:06	5° ≏ 36'52		minimum elong	454 Jun 18 j 10:30	27° I I12'36	
desc. node	449 Sep 09 j 22:42	0° M ₊		minimum ciong	454 Jun 22 j 19:01	0°95	0 32 17
	449 Oct 20 j 22:48	0° ∡ 7		max. Earth dist.	454 Jul 01 j 10:19		2.64640 AU
	449 Nov 28 j 22:34	∘ੰਤ		morning rise	454 Aug 04 j 18:11	27° © 32'55	2.04040710
evening set	449 Dec 26 j 10:52	21° る 39'23		morning rise	454 Aug 08 j 14:44	0°Ω	
evening sec	450 Jan 06 j 00:07	0°≈			454 Sep 25 j 02:40	0° my	
	450 Feb 13 j 03:41	0° ∀			454 Nov 12 j 03:18	0° ت	
	10,000.11	- /\			454 Dec 31 j 08:25	0° ™	
conjunction	450 Mar 04 j 00:08	14°) 35′13	-0°52'11		455 Feb 22 j 12:05	0° ⊼ 7	
minimum elong	450 Mar 04 j 03:08	14° X 40'59		desc. node	455 Mar 28 j 02:48	15° ∡ 38′20	
	450 Mar 24 j 06:44	0° Υ	× == +V	retrograde	455 May 11 j 00:34	25° ₹ 31'41	
max. Earth dist.	450 Apr 23 j 23:37	22° Ƴ 41'57	2.43694 AU	opposition	455 Jun 11 j 06:37	20° ₹ 06'18	-4°24'37
	450 May 04 j 02:31	0°8		greatest brilliancy	455 Jun 12 j 04:12	19° ₹ 50'41	
morning rise	450 May 08 j 14:55	3° 8 13'38		min. Earth dist.	455 Jun 17 j 10:18	18° ₹ 20'00	0.40320 AU
asc. node	450 Jun 04 j 12:39	22° 8 04'25		direct	455 Jul 14 j 08:15	13° ₹ 52'05	
	450 Jun 16 j 03:05	0°II		~== = = =	455 Sep 05 j 14:51	0°る	
	10,00.00						

	455 Oct 24 j 17:22	0° ≈			460 Oct 26 j 19:42	0°M₊	
	455 Dec 07 j 08:01	0°) €		desc. node	460 Nov 17 j 00:45	15° ™ 12'00	
	456 Jan 19 j 10:34	0 ° $\mathbf{\Upsilon}$		morning rise	460 Nov 28 j 16:00	23°M41'11	
asc. node	456 Jan 25 j 09:57	4° Ƴ 07'18			460 Dec 07 j 05:38	0° ∡ ¹	
	456 Mar 03 j 10:36	9° 8			461 Jan 16 j 02:28	o°ප	
	456 Apr 17 j 18:44	$\Pi^{\circ}0$			461 Feb 24 j 01:11	0° ≈	
	456 Jun 03 j 06:43	0 \circ \odot			461 Apr 03 j 21:06	0°) €	
evening set	456 Jun 09 j 02:41	3° 5 43'33			461 May 13 j 14:22	0 ° Υ	
	456 Jul 20 j 08:50	$0^{\circ}\Omega$			461 Jun 24 j 13:53	0°8	
max. Earth dist.	456 Jul 23 j 22:48	2° Ω 16'49	2.67487 AU		461 Aug 10 j 14:16	$\Pi^{\circ}0$	
	v			asc. node	461 Sep 16 j 06:22	18° ∏ 44'41	
conjunction	456 Jul 25 j 23:19	3° Ω 34'01	1°09'18	retrograde	461 Oct 30 j 14:20	29° Ⅱ 28′02	
minimum elong	456 Jul 25 j 23:07	3° Ω 33'42	1°09'18	min. Earth dist.	461 Dec 05 j 04:48	21° ∏ 14'14	0.62533 AU
Č	456 Sep 05 j 08:11	0° m		opposition	461 Dec 09 j 12:26	19° ∏ 30′50	3°11'18
morning rise	456 Sep 08 j 15:40	2° m 07'42		greatest brilliancy	461 Dec 08 j 23:32	19° ∏ 43'43	-1.5m
	456 Oct 21 j 15:57	0∘ ರ		direct	462 Jan 16 j 20:05	10° Ⅲ 31′09	
	456 Dec 06 j 03:41	0°M		4	462 Mar 25 j 11:36	0.82 0.52	
	457 Jan 19 j 22:01	0° ⊼ ¹			462 May 21 j 11:12	$0^{\circ}\Omega$	
desc. node	457 Feb 12 j 01:40	15° ∡ 137'51			462 Jul 10 j 10:32	0° my	
desc. Hode	457 Mar 05 j 08:40	0°る			462 Aug 25 j 16:11	0° ت مالا	
		0°≈		desc. node	462 Oct 04 j 23:20	0 = 27° £ 51'33	
	457 Apr 19 j 15:30 457 Jun 10 j 02:13	0 ≈ 0° H			462 Oct 04 j 23.20 462 Oct 05 j 04:13	27 = 31 33 28° ⊆ 00'14	
		13° ∺ 32'42		evening set			
retrograde	457 Jul 28 j 07:48		0.20500 ATT	E d Ed	462 Oct 07 j 23:26	0°M	2 45140 ATT
min. Earth dist.	457 Aug 23 j 22:25		0.39509 AU	max. Earth dist.	462 Oct 20 j 02:36		2.45148 AU
opposition	457 Aug 29 j 22:21	7°) 17'13			462 Nov 17 j 21:49	0° ∡ 7	
greatest brilliancy	457 Aug 28 j 21:56	7°) (35′19	-2.8m				
direct	457 Sep 29 j 02:58	1° ∺ 55'21		conjunction	462 Nov 28 j 09:04	7° ∡ 53'59	
asc. node	457 Dec 12 j 09:28	27°) 14′01		minimum elong	462 Nov 28 j 07:12	7° ∡ 750′27	0°33'28
	457 Dec 17 j 11:56	$0^{\circ}\mathbf{\Upsilon}$			462 Dec 27 j 03:39	0°る	
	458 Feb 06 j 20:14	$_{0\circ}$ 8		morning rise	463 Jan 29 j 13:33	26° る 07'45	
	458 Mar 27 j 16:37	Π $\circ 0$			463 Feb 03 j 11:44	0° ≈	
	458 May 15 j 01:47	0 \circ			463 Mar 13 j 18:47	0° ∀	
	458 Jul 02 j 01:21	0 $^{\circ}\Omega$			463 Apr 21 j 22:16	0 ° Υ	
evening set	458 Jul 17 j 00:27	9° Ω 27'13			463 Jun 01 j 19:46	0°8	
max. Earth dist.	458 Aug 16 j 16:54	29° Ω 04'20	2.64900 AU		463 Jul 15 j 12:19	Π $^{\circ}0$	
	458 Aug 18 j 03:24	O° Mp		asc. node	463 Aug 04 j 06:14	12° Ⅱ 42'57	
					463 Sep 01 j 22:59	0 \circ \odot	
conjunction	458 Aug 31 j 17:40	8° Mp 49'21	0°59'21		463 Nov 05 j 21:42	$0^{\circ}\Omega$	
minimum elong	458 Aug 31 j 18:42	8° Mp 51'02	0°59'20	retrograde	463 Dec 04 j 13:29	4° Ω 35'34	
	458 Oct 02 j 19:41	0∘ ত			463 Dec 31 j 01:01	30°Rூ	
morning rise	458 Oct 16 j 00:23	8° £ 52'12		opposition	464 Jan 13 j 16:59	24°950'31	4°28'14
	458 Nov 15 j 20:38	0°M.		min. Earth dist.	464 Jan 13 j 05:40	25° © 01'50	0.67449 AU
	458 Dec 28 j 07:22	0° ∡ ¹		greatest brilliancy	464 Jan 13 j 14:01	24° © 53'29	-1.3m
desc. node	458 Dec 31 j 01:07	1° ≯ 758'16		direct	464 Feb 23 j 06:11	15° © 05'53	
	459 Feb 07 j 10:38	0°ರ			464 Apr 20 j 18:28	$0^{\circ}\Omega$	
	459 Mar 19 j 18:13	0° ≈			464 Jun 17 j 12:10	0° my	
	459 Apr 29 j 03:32	0°) €			464 Aug 04 j 18:19	0∘ ⊽	
	459 Jun 10 j 07:47	0°Υ		desc. node	464 Aug 21 j 21:42	11° ≏ 26'41	
	459 Jul 29 j 08:53	0°8		dose. node	464 Sep 17 j 14:09	0°M	
retrograde	459 Sep 21 j 09:36	16° 8 24'22			464 Oct 28 j 11:25	0° ∡ 7	
min. Earth dist.	459 Oct 21 j 19:40		0.51752 AU	evening set	464 Nov 29 j 13:43	24° ∡ ³37'05	
opposition	459 Oct 29 j 11:02	7° 8 11'10		evening set	464 Dec 06 j 11:22	0°る	
• •		2°939'12			465 Jan 13 j 13:27	0°≈	
greatest brilliancy	458 May 19 j 08:10		1./111		403 Jan 13 j 13.27	0 ~	
asc. node	459 Oct 30 j 08:31	6° 8 51'03		:	465 E-L 02 : 06:15	1.690 02010.4	1904122
11	459 Nov 25 j 08:11	30°RΥ 200 Ω 3.5120		conjunction	465 Feb 03 j 06:15	16°≈20'04	
direct	459 Dec 03 j 04:38	29° Y 35′28		minimum elong	465 Feb 03 j 07:17	16°≈22'04	1°04'23
	459 Dec 11 j 05:53	0° Β			465 Feb 20 j 16:41	0°) (2 20640 111
	460 Feb 29 j 00:57	0° I I		max. Earth dist.	465 Mar 18 j 04:32		2.38648 AU
	460 Apr 22 j 19:09	0° ©			465 Mar 31 j 18:20	0°Υ 0° Υ 43137	
	460 Jun 11 j 21:58	$\Omega^{\circ}\Omega$		morning rise	465 Apr 13 j 18:14	9° Y 43'37	
	460 Jul 29 j 18:29	0° m		_	465 May 11 j 12:22	0°8	
evening set	460 Aug 22 j 22:59	15° m 42'57		asc. node	465 Jun 21 j 06:07	28° 8 26'55	
max. Earth dist.	460 Sep 11 j 08:14	28° Mp 36'46	2.57132 AU		465 Jun 23 j 13:04	0°Щ	
	460 Sep 13 j 09:42	0∘ ⊽			465 Aug 08 j 10:00	0°€	
					465 Sep 27 j 11:40	0 $^{\circ}\Omega$	
conjunction	460 Oct 09 j 13:56	17° £ 54'32	0°23'06		465 Nov 29 j 01:47	0° ™	
minimum elong	460 Oct 09 j 14:50	17° £ 56′07	0°23'06	retrograde	466 Jan 07 j 18:05	7° m 58'16	

		_					
	466 Feb 13 j 00:19	30°R Ω			471 Jan 28 j 12:37	$0^{\circ}\Upsilon$	
opposition	466 Feb 16 j 00:03	28° Ω 50′10	4°21'22	asc. node	471 Feb 11 j 02:46	9° Ƴ 36'08	
greatest brilliancy	466 Feb 16 j 11:52	28° Ω 38'35	-1.4m		471 Mar 12 j 12:38	$_{0\circ}$ 8	
min. Earth dist.	466 Feb 19 j 10:04	27° Ω 29'49	0.65825 AU		471 Apr 26 j 04:10	$\Pi^{\circ}0$	
direct	466 Mar 29 j 10:33	18° Ω 48'19		evening set	471 May 25 j 08:47	19° Ⅱ 05'48	
	466 May 16 j 00:31	0° m			471 Jun 11 j 05:48	0 \circ	
desc. node	466 Jul 09 j 20:53	28° m 23'47					
	466 Jul 12 j 12:43	0∘ ত		conjunction	471 Jul 12 j 11:09	19° © 59'52	1°05'59
	466 Aug 27 j 12:56	0°M		minimum elong	471 Jul 12 j 10:24	19° © 58'41	1°05'59
	466 Oct 08 j 02:10	0° ∡ ¹		max. Earth dist.	471 Jul 16 j 00:10	22° © 15'25	2.67029 AU
	466 Nov 16 j 06:47	0°ප			471 Jul 28 j 03:50	$0 ^{\circ} \Omega$	
	466 Dec 24 j 11:04	0° ≈		morning rise	471 Aug 26 j 18:10	18° Ω 50'37	
	467 Jan 31 j 17:41	0° ℋ			471 Sep 13 j 06:06	0° m y	
evening set	467 Feb 08 j 04:56	5°) 46′48			471 Oct 30 j 01:50	0∘ ত	
	467 Mar 12 j 00:53	0 ° $\mathbf{\Upsilon}$			471 Dec 15 j 13:56	0° M	
					472 Jan 31 j 03:49	0° ∡ ¹	
conjunction	467 Apr 13 j 00:02	23° Y 30'28	-0°16'18	desc. node	472 Feb 29 j 18:49	18° ∡ ¹45'45	
minimum elong	467 Apr 13 j 01:09	23° Y 32'30	0°16'18		472 Mar 19 j 00:07	0°ರ	
	467 Apr 22 j 01:03	0°8			472 May 12 j 16:34	0° ≈	
asc. node	467 May 09 j 04:17	12° 8 06'28		retrograde	472 Jun 29 j 04:04	12° ≈ 25′05	
max. Earth dist.	467 May 22 j 11:51	21° 8 20'58	2.51857 AU	min. Earth dist.	472 Jul 28 j 02:54	7° ≈ 41'59	0.37434 AU
	467 Jun 04 j 03:35	$\Pi^{\circ}0$		opposition	472 Jul 29 j 16:38	7° ≈ 16'49	-6°53'29
morning rise	467 Jun 09 j 21:02	3° Ⅱ 52'25		greatest brilliancy	472 Jul 29 j 09:53	7° ≈ 21'19	-2.9m
	467 Jul 19 j 10:45	0° ©		direct	472 Aug 28 j 05:53	2° ≈ 21'49	
	467 Sep 04 j 23:53	$0^{\circ}\Omega$			472 Nov 12 j 18:20	0°) €	
	467 Oct 25 j 13:19	0° m		asc. node	472 Dec 29 j 00:43	28° ₩ 06'37	
	467 Dec 23 j 04:44	0° ⊽			473 Jan 01 j 00:27	0 ° $\mathbf{\Upsilon}$	
retrograde	468 Feb 17 j 11:04	14° ≏ 24'39			473 Feb 16 j 22:49	9° 8	
opposition	468 Mar 25 j 12:55	6° ₽ 19'55	2°38'45		473 Apr 04 j 22:43	$\Pi^{\circ}0$	
greatest brilliancy	468 Mar 26 j 06:11	6° ₽ 03'48	-1.7m		473 May 22 j 09:34	0ංම	
min. Earth dist.	468 Apr 01 j 14:04	3° ≏ 42'14	0.57728 AU	evening set	473 Jul 02 j 12:49	25°956'41	
	468 Apr 12 j 16:31	30°R, M⊅			473 Jul 08 j 22:37	$0^{\circ}\Omega$	
direct	468 May 05 j 01:12	26° Mp 41'37		max. Earth dist.	473 Aug 07 j 09:26	18° Ω 44'15	2.66569 AU
desc. node	468 May 26 j 19:39	29° m 35'11					
	468 May 28 j 10:02	0° ح		conjunction	473 Aug 17 j 08:28	25° Ω 07'27	1°06'20
	468 Jul 30 j 23:25	0° M ,		minimum elong	473 Aug 17 j 09:06	25° Ω 08'29	1°06'20
	468 Sep 13 j 18:44	0° ∡ ¹			473 Aug 24 j 22:13	0° m)	
	468 Oct 24 j 05:53	0°రె		morning rise	473 Sep 30 j 23:49	24° Mp 10'26	
	468 Dec 02 j 04:08	0° ≈			473 Oct 09 j 19:05	0∘ 亚	
	469 Jan 10 j 01:59	0° ℋ			473 Nov 23 j 07:01	0° M .	
	469 Feb 19 j 00:32	0 ° $\mathbf{\gamma}$			474 Jan 05 j 10:24	0° ∡ ¹	
asc. node	469 Mar 26 j 03:23	25° Ƴ 23'48		desc. node	474 Jan 16 j 17:40	7° ∡ ¹59'59	
	469 Apr 01 j 15:42	8°			474 Feb 16 j 11:01	0°ಕ	
evening set	469 Apr 09 j 01:19	5° 8 11'25			474 Mar 29 j 20:41	0° ≈	
	469 May 15 j 06:09	$\Pi^{\circ}0$			474 May 10 j 19:04	0°) €	
					474 Jun 25 j 11:25	0 ° $\mathbf{\Upsilon}$	
conjunction	469 Jun 01 j 22:31	11° Ⅱ 48'30	0°38'13	retrograde	474 Sep 02 j 12:12	25° Ƴ 17'25	
minimum elong	469 Jun 01 j 21:03	11° Ⅱ 46′06	0°38'12	min. Earth dist.	474 Sep 30 j 19:36	19° Ƴ 48'11	0.46543 AU
max. Earth dist.	469 Jun 21 j 12:26	24° Ⅱ 40′53	2.62055 AU	opposition	474 Oct 08 j 23:58	16° Ƴ 55'17	-2°03'23
	469 Jun 29 j 16:31	0° ©		greatest brilliancy	474 Oct 08 j 10:13	17° Ƴ 07'25	-2.4m
morning rise	469 Jul 21 j 04:09	13° © 50'57		direct	474 Nov 10 j 20:48	10° Ƴ 08'31	
	469 Aug 15 j 13:16	$0^{\circ}\Omega$		asc. node	474 Nov 15 j 23:48	10° Ƴ 18'41	
	469 Oct 02 j 12:06	0° m			475 Jan 15 j 17:14	9° 8	
	469 Nov 20 j 19:12	0∘ ত			475 Mar 12 j 08:02	$\Pi^{\circ}0$	
	470 Jan 12 j 10:26	0°M,			475 May 02 j 04:03	0°ම	
	470 Mar 27 j 21:38	0° ∡ ¹			475 Jun 20 j 05:32	$0^{\circ}\Omega$	
retrograde	470 Apr 12 j 14:54	1° ∡ ¹26′23			475 Aug 06 j 16:46	0° ™	
desc. node	470 Apr 13 j 18:29	1° ≯ 25'53		evening set	475 Aug 08 j 22:46	1° m 27'01	
	470 Apr 27 j 18:15	30°RM		max. Earth dist.	475 Sep 01 j 08:39	16° Mp 43'14	2.60754 AU
opposition	470 May 15 j 17:22	25°M09'48	-1°48'14		475 Sep 21 j 07:16	0∘ ⊽	
greatest brilliancy	470 May 16 j 06:11	24°M59'25	-2.4m				
min. Earth dist.	470 May 23 j 20:52	22°M32'23	0.44929 AU	conjunction	475 Sep 24 j 09:23	2° ≏ 04'49	0°40'10
direct	470 Jun 20 j 20:11	17°M32'17		minimum elong	475 Sep 24 j 10:37	2° ഫ 06'52	0°40'10
	470 Aug 05 j 21:08	0° ∡ ¹			475 Nov 03 j 21:58	0°M₊	
	470 Sep 25 j 06:56	0°ರ		morning rise	475 Nov 10 j 21:50	4°M56'21	
	470 Nov 06 j 18:59	0° ≈		desc. node	475 Dec 04 j 16:16	21°M59'01	
	470 Dec 17 j 21:33	0°) €			475 Dec 15 j 16:04	0° ∡ ¹	
	., o B cc 1, j 21.55						

	476 Jan 24 j 22:41	0°ರ		direct	481 Mar 15 j 17:52	5° Ω 41'46	
	476 Mar 04 j 07:24	0° ≈			481 May 31 j 03:42	0° m y	
	476 Apr 12 j 13:10	0° ∀			481 Jul 21 j 23:25	0∘ ⊽	
	476 May 22 j 19:13	$0^{\circ}\mathbf{\Upsilon}$		desc. node	481 Jul 26 j 12:22	2° £ 53'26	
	476 Jul 04 j 22:26	0°B			481 Sep 04 j 19:28	0° M	
	476 Aug 25 j 14:51	0°II			481 Oct 16 j 00:01	0° ∡ ¹	
asc. node	476 Oct 02 j 23:37	13° Ⅱ 10′25			481 Nov 24 j 01:33	∘ੰਤ	
	-	14° I 10'23			-	0°≈	
retrograde	476 Oct 15 j 23:28		0.50006.444		482 Jan 01 j 04:01		
min. Earth dist.	476 Nov 18 j 15:52	6° Ⅱ 43'32	0.58886 AU	evening set	482 Jan 11 j 07:48	8°≈01'14	
opposition	476 Nov 24 j 09:53	4° Ⅱ 27'30			482 Feb 08 j 08:14	0° ∀	
greatest brilliancy	476 Nov 23 j 21:43	4° Ⅱ 39'31	-1.7m				
	476 Dec 06 j 14:12	30° ₹ 8		conjunction	482 Mar 19 j 06:33	29°) 49′45	-0°40'26
direct	476 Dec 31 j 11:45	25° 8 54'57		minimum elong	482 Mar 19 j 09:20	29° ∺ 54'59	0°40'24
	477 Jan 27 j 17:23	Π \circ 0			482 Mar 19 j 12:00	0° Y	
	477 Apr 06 j 19:34	0°©			482 Apr 29 j 08:20	9° 8	
	477 May 29 j 22:49	$0^{\circ}\Omega$		max. Earth dist.	482 May 05 j 20:45	4° 8 39'08	2.46684 AU
	477 Jul 17 j 20:37	0° m/y		morning rise	482 May 21 j 01:34	15° 8 21'16	
	477 Sep 01 j 18:50	0∘ ⊽		asc. node	482 May 25 j 20:49	18° 8 41'38	
avanina aat	477 Sep 01 j 18:50 477 Sep 17 j 07:52	0 — 10° ≏ 34'14		asc. node	482 Jun 11 j 08:08	0°II	
evening set			2.50176.411		•		
max. Earth dist.	477 Oct 02 j 07:39	20° ≙ 58'31	2.50176 AU		482 Jul 26 j 17:23	0°©	
	477 Oct 15 j 02:14	0° M ₊			482 Sep 12 j 21:05	0 $^{\circ}$ Ω	
desc. node	477 Oct 21 j 15:22	4°M41'00			482 Nov 04 j 16:51	0° m)	
				retrograde	483 Jan 31 j 12:46	29° m 40'47	
conjunction	477 Nov 07 j 05:25	16°ML42'57	-0°10'27	opposition	483 Mar 10 j 15:19	21°Mp07'12	3°32'46
minimum elong	477 Nov 07 j 04:52	16°M41'56	0°10'27	greatest brilliancy	483 Mar 11 j 08:58	20° m 50'19	-1.5m
behind sun begin	477 Nov 06 j 11:19	16°ML09'49		min. Earth dist.	483 Mar 16 j 08:42	18° m 55'50	0.61624 AU
behind sun end	477 Nov 07 j 22:26	17° M .14'06		direct	483 Apr 20 j 18:55	11° Mp 12'25	
	477 Nov 25 j 04:15	0° ∡ ¹		desc. node	483 Jun 13 j 12:16	25° m/38'06	
morning rise	478 Jan 02 j 16:32	29° х 16'49		door. Hode	483 Jun 22 j 12:47	0∘ ಹ	
morning rise		0°る				o° m .	
	478 Jan 03 j 14:55				483 Aug 12 j 08:03		
	478 Feb 11 j 03:38	0° ≈			483 Sep 24 j 05:39	0° ⊼	
	478 Mar 21 j 14:20	0° ∺			483 Nov 02 j 23:32	0°ප	
	478 Apr 29 j 21:01	0° Υ			483 Dec 11 j 11:50	0° ≈	
	478 Jun 10 j 00:07	$0^{\circ}S$			484 Jan 19 j 01:30	0° \	
	478 Jul 24 j 09:06	$\Pi^{\circ}0$			484 Feb 27 j 16:06	0 ° $\mathbf{\Upsilon}$	
asc. node	478 Aug 20 j 22:35	16° Ⅱ 56′29		evening set	484 Mar 18 j 11:47	14° Y 34'00	
	478 Sep 13 j 14:10	0°©			484 Apr 08 j 23:46	9° 8	
retrograde	478 Nov 21 j 05:10	21° © 34'36		asc. node	484 Apr 11 j 19:01	1° 8 59'03	
min. Earth dist.	478 Dec 29 j 10:11	12° © 28'54	0.66282 AU		pj		
opposition	478 Dec 31 j 09:43	11°9541'15		conjunction	484 May 14 j 20:57	24° 8 56'23	0°19'51
greatest brilliancy	478 Dec 31 j 01:35	11°9549'24	-1.4m	minimum elong	484 May 14 j 19:57	24° 8 54'39	0°19'50
-		2°9510'49	-1.4111	minimum clong	484 May 22 j 07:51	0° Ⅱ	0 1930
direct	479 Feb 09 j 05:18			To all the	, ,		2.50652.444
	479 May 05 j 00:26	$0^{\circ}\Omega$		max. Earth dist.	484 Jun 10 j 14:56	12° ∏ 55'41	2.58653 AU
	479 Jun 27 j 06:11	0° m ∕		morning rise	484 Jul 05 j 19:02	29° Ⅱ 27'23	
	479 Aug 13 j 11:26	0∘ ಹ			484 Jul 06 j 15:06	0ංම	
desc. node	479 Sep 08 j 13:56	17° ≏ 43'38			484 Aug 22 j 15:04	$0 ^{\circ} \Omega$	
	479 Sep 26 j 00:34	0° M			484 Oct 10 j 06:12	0° m y	
	479 Nov 05 j 21:24	0° ∡ ¹			484 Nov 30 j 13:24	0∘ ⊽	
evening set	479 Nov 06 j 10:08	0° ∡ ¹23'59			485 Jan 30 j 02:12	0° M ₊	
max. Earth dist.	479 Dec 11 j 11:26	27° ∡ 17'27	2.37966 AU	retrograde	485 Mar 19 j 12:44	11°ML13'32	
	479 Dec 14 j 22:53	ರ°0		opposition	485 Apr 23 j 09:25	4°ML08'02	0°21'45
	=			greatest brilliancy	485 Apr 23 j 12:44	4°ML05'09	-2.2m
conjunction	480 Jan 06 j 17:19	17° る 51'53	1001'28	desc. node	485 Apr 30 j 11:20	1°MJ39'26	2.2111
-	-						0.50200 411
minimum elong	480 Jan 06 j 15:28	17° る 48'14	1 01 28	min. Earth dist.	485 May 01 j 18:46	1°M12'32	0.50200 AU
	480 Jan 22 j 02:30	0° ≈			485 May 05 j 10:50	30°R ≏	
	480 Feb 29 j 06:10	0° ∺		direct	485 May 31 j 19:56	25° £ 25'25	
morning rise	480 Mar 16 j 10:02	12° ∺ 32'13			485 Jun 27 j 20:14	0° M	
	480 Apr 08 j 07:11	0° Y			485 Aug 25 j 15:53	0° ∡ ¹	
	480 May 19 j 00:43	9° 8			485 Oct 08 j 01:09	0°ಕ	
	480 Jul 01 j 03:57	Π° 0			485 Nov 17 j 08:38	0° ≈	
asc. node	480 Jul 07 j 21:16	4° Ⅱ 29'47			485 Dec 27 j 05:18	0°) €	
	480 Aug 16 j 14:44	0°ಅ			486 Feb 05 j 22:41	0° Υ	
	480 Oct 08 j 01:23	0°N		asc. node	486 Feb 27 j 17:36	15° Ƴ 36'34	
retrograde	480 Dec 24 j 18:22	25° Ω 05'25			486 Mar 20 j 06:04	0°8	
opposition	481 Feb 02 j 11:49	15° Ω 40′20	4°33'40		486 May 03 j 09:10	0°II	
greatest brilliancy	481 Feb 02 j 18:04	15° Ω 34'10	-1.3m	evening set	486 May 08 j 14:33	3° Ⅱ 28'27	
-	-		-1.3m 0.67244 AU	evening set		3°Щ2827 0°9	
min. Earth dist.	481 Feb 04 j 09:34	14 0633 03	0.072 44 AU		486 Jun 18 j 03:04	وت ∪	

conjunction	486 Jun 27 j 11:35	6° © 02'13		retrograde	491 Oct 01 j 04:30	27° 8 27'40	
minimum elong	486 Jun 27 j 10:23	6°500'16	0°58'35	asc. node	491 Oct 20 j 14:57	24° 8 43'19	0.54450.433
max. Earth dist.	486 Jul 06 j 23:12	12° © 07'47	2.65736 AU	min. Earth dist.	491 Nov 01 j 19:00	20° 8 38'55	0.54472 AU
	486 Aug 03 j 22:50	0° N		opposition	491 Nov 08 j 20:05	17° 8 56'30	0°54'22
morning rise	486 Aug 12 j 21:07	5° Ω 40'34		greatest brilliancy	491 Nov 08 j 13:48	18° 8 02'33	-2.0m
	486 Sep 20 j 06:18	0° m 0° 0		direct	491 Dec 14 j 11:33	9° 8 57'58	
	486 Nov 06 j 18:36	0∘ m			492 Feb 20 j 03:31	0°© 0°∏	
	486 Dec 24 j 18:30	0° M 0° ∡ 7			492 Apr 16 j 20:12		
11-	487 Feb 12 j 13:37	18° ∡ 40'01			492 Jun 06 j 20:05	0° N	
desc. node	487 Mar 18 j 09:50	18° X '40'01 0° る			492 Jul 25 j 00:41 492 Aug 31 j 21:51	0° Mp	
ratragrada	487 Apr 11 j 07:47 487 May 28 j 20:22	0 8 11° る 35'56		evening set	492 Sep 08 j 18:33	24° Mp 43'43 0° <u> </u>	
retrograde opposition	487 Jun 28 j 05:37	6° る 31'07	5046121	max. Earth dist.	492 Sep 18 j 10:45	0 ഫ 6° ჲ 33'19	2.54812 AU
greatest brilliancy	487 Jun 28 j 23:18	6°る19'00		max. Earth dist.	492 Sep 18 j 10.43	0 = 33 19	2.34612 AU
min. Earth dist.	487 Jul 02 j 03:51	5° る 26'40	0.38524 AU	conjunction	492 Oct 19 j 11:32	28° ഫ 06'02	0°11'36
direct	487 Jul 29 j 17:15	3 32 040 0° る 58'57	0.36324 AU	minimum elong	492 Oct 19 j 11:32 492 Oct 19 j 12:03	28° ⊆ 06'56	0°11'36
direct	487 Oct 14 j 04:54	0° ≈		behind sun begin	492 Oct 19 j 12:03 492 Oct 18 j 21:02	28 ≅ 00 30 27° £ 40′26	0 11 30
	487 Nov 29 j 19:18	0 ∞ 0° ∀		behind sun end	492 Oct 18 j 21:02 492 Oct 20 j 03:03	27° ⊆ 40′20 28° ⊆ 33'27	
	488 Jan 13 j 05:12	0°Υ		bennia sun ena	492 Oct 20 j 03:05 492 Oct 22 j 03:55	0°M	
asc. node	488 Jan 15 j 17:14	0 1 1° Υ 41'26		desc. node	492 Oct 22 j 05:53 492 Nov 07 j 06:57	11°MJ32'57	
asc. Houe	488 Feb 26 j 23:12	0° 8		desc. Hode	492 Nov 07 j 00:37 492 Dec 02 j 11:24	0° √	
	488 Apr 12 j 18:06	0°II		morning rise	492 Dec 10 j 11:08	5° ₹ 157'14	
	488 May 29 j 12:37	0°©		morning rise	493 Jan 11 j 04:42	ップ・3/14 0°る	
evening set	488 Jun 17 j 19:21	12° © 15'27			493 Feb 18 j 23:47	0°≈	
evening set	488 Jul 15 j 17:55	12 3 13 27			493 Mar 29 j 15:51	0 ≈ 0° H	
max. Earth dist.	488 Jul 29 j 05:42		2.67392 AU		493 May 08 j 03:52	0° Υ	
max. Earm dist.	400 Jul 29 J 03.42	8 8633 01	2.07392 AU		493 May 08 J 05:52 493 Jun 18 j 16:55	0°8	
conjunction	488 Aug 03 j 04:00	11° Ω 43'30	1000'22		493 Aug 03 j 08:04	0°II	
minimum elong	488 Aug 03 j 04:08	11° Ω 43'43	1°09'22	asc. node	493 Sep 06 j 14:25	19° Ⅱ 16'56	
minimum ciong	488 Aug 31 j 16:59	0°M)	1 09 22	asc. node	493 Sep 30 j 14:58	0°9	
morning rise	488 Sep 16 j 16:36	עוי 10° און 19'02		retrograde	493 Nov 07 j 15:09	8° 5 01'38	
morning risc	488 Oct 16 j 20:34	0° ∿		retrograde	493 Nov 07 j 13:09 493 Dec 12 j 20:33	30°R∏	
	488 Nov 30 j 22:43	0° m .		min. Earth dist.	493 Dec 12 j 20:33 493 Dec 14 j 04:45	29° Ⅱ 28'01	0.64130 AU
	489 Jan 14 j 00:43	0° ⊼		opposition	493 Dec 17 j 16:27	28° I I04'10	3°37'00
desc. node	489 Feb 02 j 09:21	13° ∡ 21'08		greatest brilliancy	493 Dec 17 j 04:34	28° I I16'05	-1.5m
desc. Hode	489 Feb 26 j 09:09	0°る		direct	494 Jan 25 j 13:56	18° I I52'09	-1.5111
	489 Apr 10 j 17:04	0° ≈		direct	494 Mar 15 j 00:40	0°95	
	489 May 26 j 07:52	0° ∀			494 May 15 j 09:48	0°Ω	
	489 Aug 07 j 03:17	0°Υ			494 Jul 05 j 07:58	0° m	
retrograde	489 Aug 11 j 12:11	0° Υ '08'24			494 Aug 20 j 21:31	0° ت	
retrograde	489 Aug 15 j 20:47	30° ₹		desc. node	494 Sep 25 j 06:16	0 — 24° ≏ 18'15	
min. Earth dist.	489 Sep 07 j 08:04		0.41681 AU	dese. Hode	494 Oct 03 j 06:57	0°M	
opposition	489 Sep 14 j 16:35	23° H 03'25		evening set	494 Oct 16 j 04:23	9°M16'59	
greatest brilliancy	489 Sep 13 j 15:55	23° H 23'07		max. Earth dist.	494 Nov 02 j 15:29	22°M06'34	2.42306 AU
direct	489 Oct 15 j 17:06	17°) 12'11	-2./111	max. Lartii dist.	494 Nov 13 j 04:57	0° x ⁷	2.42300 AC
asc. node	489 Dec 02 j 16:35	29°) 17'34			474 110V 15 J 04.57	0 %	
asc. node	489 Dec 04 j 07:37	2°γ		conjunction	494 Dec 11 j 17:25	21° ₹ 44'31	-0°45'44
	490 Jan 30 j 11:26	0°8		minimum elong	494 Dec 11 j 17:23	21° х 44 31 21° х 39'54	
	490 Mar 21 j 22:20	0°II		minimum crong	494 Dec 22 j 09:08	0°る	0 13 12
	490 May 10 j 00:16	0°©			495 Jan 29 j 15:28	0°≈	
	490 Jun 27 j 07:47	0°N		morning rise	495 Feb 15 j 05:19	13°≈02'53	
evening set	490 Jul 25 j 07:57	17° Ω 41'32			495 Mar 08 j 20:55	0° ∺	
e renning see	490 Aug 13 j 12:47	0° mp			495 Apr 16 j 22:45	0° Υ	
max. Earth dist.	490 Aug 22 j 08:35	5° Mp 42'41	2.63647 AU		495 May 27 j 17:40	0°8	
max. Darm dist.	190 Hag 22 j 00.55	3 ng 12 11	2.03017110		495 Jul 10 j 02:55	0°II	
conjunction	490 Sep 09 j 04:04	17° m) 21'47	0°53'26	asc. node	495 Jul 25 j 13:40	10° Ⅱ 07'38	
minimum elong	490 Sep 09 j 05:15	17° m) 23'43		ase. Hour	495 Aug 26 j 13:35	0°95	
	490 Sep 28 j 04:41	0° <u>م</u>			495 Oct 23 j 00:08	0° U	
morning rise	490 Oct 25 j 01:00	18° ≏ 12'12		retrograde	495 Dec 12 j 05:34	12° Ω 21′28	
	490 Nov 11 j 02:07	0°M		opposition	496 Jan 21 j 06:29	2° Ω 42'42	4°33'38
desc. node	490 Dec 21 j 08:25	28°M36'02		greatest brilliancy	496 Jan 21 j 06:45	2° Ω 42'26	
	490 Dec 23 j 06:49	0° √		min. Earth dist.	496 Jan 21 j 15:35		0.67665 AU
	491 Feb 02 j 01:58	0°ප			496 Jan 28 j 03:50	30° ₹ 55	
	491 Mar 14 j 00:01	0° ≈		direct	496 Mar 02 j 02:52	22° © 51'58	
	491 Apr 22 j 20:31	0° ∀			496 Apr 08 j 15:22	0° Ω	
	491 Jun 03 j 01:14	0°Υ			496 Jun 11 j 06:09	0° m/y	
	491 Jul 18 j 16:48	0°8			496 Jul 30 j 12:44	0∘ ರ ೧.೫	
					20 j 12.11		

490 Ct 390 St 690 St 690 St 690 St 690 St 690 St 70 St	desc. node	496 Aug 12 j 05:38	8° ≏ 21'34		minimum elong	•	21° Ⅱ 10′15	0°46'54
eventing set exercising at Exercising and the problems of the problems		496 Sep 12 j 16:29	0° M ₊			501 Jun 25 j 00:54	0ං ව	
evening set 490 Dec 14 10.4 m. or 1973 m. or 1974 m. or 1973 m. or 1974 m. or 1974 m. or 1973 m. or 1974 m. or 1973 m. or 1974 m. or		496 Oct 23 j 16:23	0° ∡¹		max. Earth dist.	501 Jun 27 j 08:57	1° © 30'52	2.63582 AU
		496 Dec 01 j 16:42	0°ರ		morning rise	501 Jul 29 j 14:38	22°©13'27	
conjunction 497 Feb 19 j 1505 29 K494 9-9905 Conjunction 500 Jan 0 (1) 902 9 0°B max Earth dist 497 Feb 19 j 1505 29 K494 9-9905 descringed 500 Jan 0 (2) 1927 12*2** max Earth dist 497 Apr 11 j 1213 29 K494 9-19905 descringed 500 Jan 0 (2) 1927 12*2** 12*2** moning rise 497 Apr 11 j 1214 29 K19512 241306 AU opposition 500 Jan 0 (3) 93 (3) 134 9*2*** 2-2*** asc node 497 Jun 18 j 1124 29 K19512 497 Apr 21 j 19** 10*** 40*** 500 Jun 0 (3) 100 6*2***2780 0*2*** developing 497 Nav 71 j 13** 0°B 497 Apr 21 j 10** 0°B 20 Cycl 30 (3) 30 22*** 13*** 0°P** remark 497 Nav 71 j 23** 0°B 29 J 19** 497 Apr 21 j 10** 0°B 29 J 19** 497 Apr 21 j 10** 0°B 29 J 19** 497 Apr 21 j 10** 0°B 29 J 19** 29 K19** 49 M 21 j 15** 0°B 29 J 19** 49 M 21 j 15** 0°B 29 J 19** 49 M 21 j 15** 0°B	evening set	496 Dec 14 j 10:14	9° ට 59'11			501 Aug 10 j 20:04	$0^{\circ}\Omega$	
conjunction 497 Feb 19 15.05 2"H5449 - 0'9905 description 600 Mar 02 19 207 0"2" 27 27 27 27 27 27 27 2		497 Jan 08 j 18:31	0° ≈			501 Sep 27 j 11:56	0° mp	
conjunction 497 Feb 19 1505 2 *** 1549 0** 500 0** 1900 0** 100 0**		497 Feb 15 j 21:22	0° ∀			501 Nov 15 j 00:11	0∘ ত	
mine						502 Jan 04 j 09:59	0° M.	
Marx 1497 km 1591 km 2591 km	conjunction	497 Feb 19 j 15:05	2° 升 54'49	-0°59'05		502 Mar 02 j 19:27	0° ∡ ¹	
bax Earth dist 497 Apr 11 21/313 11 17 54/12 21 41306 AU egreatest fullitues 500 May 30 (01-48) 97-90000 3-12 500 2-5 asc. node 497 May 96 (16-28) 0°B min. Earth dist 500 Jun 06 (10-40) 6°75300 0.4232 AU asc. node 497 Jun 18 (11-41) 25°B0715 dreet 502 Cec 11 (1) (12-41) 0°R 497 Nov 17 (12-37) 0°B0 0°B0 502 Cec 11 (1) (12-41) 0°R recorgade 497 Nov 17 (12-37) 0°B0 asc. node 503 Feb 21 (10-10) 0°R opposition 498 Pab 24 (10-22) 17*80581 40749 40748 503 Mar 07 (07-03) 0°R desc. node 498 Apr 20 (01-011) 27*80044 40748 603 Mar 15 (10-10) 28*B1120 0°R desc. node 498 Apr 20 (01-011) 27*80044 60*B0 (10-10) 28*B1120 0°R 10*02 28*B1120 0°R <td>minimum elong</td> <td>497 Feb 19 j 17:35</td> <td>2°) 59'40</td> <td>0°59'03</td> <td>desc. node</td> <td>502 Apr 04 j 02:10</td> <td>11°∡³39'46</td> <td></td>	minimum elong	497 Feb 19 j 17:35	2°) 59'40	0°59'03	desc. node	502 Apr 04 j 02:10	11° ∡ ³39'46	
max. Earth dist. 497 Apr 2 [1]:103 11°P\$ 5172 241°S96 AU expected with miles 502 May 30 [1048] 9°R00000 -37°C 52°C 100 -50°C 50°C 50°C 50°C 50°C 50°C 50°C 50°C		497 Mar 26 j 22:44	0 $^{\circ}$ $\mathbf{\Upsilon}$		retrograde	502 Apr 27 j 23:36	14° ∡ ¹53'38	
asc. node 497 Jun 1, 11,141 298/0715 direct 502 Jun 10,3130 6°×7520 0,4223 AU 497 Jun 1, 11,141 298/0715 orall direct 502 Jul 10,3130 c°×7520 0,70 497 Non 1, 21,1910 0°T cora 10,063 cora 30,063.5 0°% 0°% recrograde 498 Jun 1,012,255 1°98/981 asc. node 603 Feb. 10,1016 0°% 0°% recrograde 498 Jun 1,012,255 1°89/881 407449 1-4m 503 Mar 10,001 0°% 0°% opposition 498 Feb 24,100.24 898 Feb 24,100.24 8°8749 1-4m 503 Mar 10,001 0°% 1° discer 498 Mar 1,501.65 5°\$2228 0.4611 AU evening set 503 Jun 0,311.27 2°\$10.09 0°\$1.00 0°\$1.10 2°\$10.09 0°\$1.00 0°\$1.10 2°\$10.09 0°\$1.00 0°\$1.10 2°\$10.09 0°\$1.00 0°\$1.00 0°\$1.10 0°\$1.00 0°\$1.00 0°\$1.00 0°\$1.00 0°\$1.00 0°\$1.00 0°\$1.00 0°\$1.00 0°\$1.00 0°\$1.00 0°\$1.00 <td>max. Earth dist.</td> <td>497 Apr 11 j 21:03</td> <td>11°Y54'12</td> <td>2.41306 AU</td> <td>opposition</td> <td>502 May 30 j 01:48</td> <td>9°₰06'06</td> <td>-3°15'25</td>	max. Earth dist.	497 Apr 11 j 21:03	11° Y 54'12	2.41306 AU	opposition	502 May 30 j 01:48	9° ₰ 06'06	-3°15'25
asc. node 497, Int 13 132 02*80*0715 column 502 Dot 10 31 310 30 30 30 30 30	morning rise	497 Apr 28 j 07:12	23° Y 56'47		greatest brilliancy	502 May 30 j 21:36	8° ₹ '51'00	-2.6m
asc. node		497 May 06 j 16:28	0°8		min. Earth dist.	502 Jun 06 j 10:40	6° ≯ ¹52'06	0.42232 AU
497 497	asc. node		25° 8 07'15		direct		2° ҂ 13'43	
497 Nov 17 12.37 17 18 18 19 19 19 19 19 19		-	$\Pi^{\circ}0$			502 Sep 15 j 03:06	0°రె	
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cringrade 497 Nov 17 1237 0°Hg 1287 12								
Percentage 498 Ran 6 02.55 15°						•		
opposition greatest brilliancy greatest brilliancy greatest brilliancy greatest brilliancy and the set of t	retrograde				asc. node			
granta drilliand 498 Feb 24 j 14.53 6° B 4749 -1.4m cevening set 503 Ju 0.5 j 11.77 28° B 10139 cepening set 498 Apr 26 j 10.11 27° B 20034 cepening set 498 Apr 26 j 10.11 cepening set 498 Apr 26 j 10.11 cepening set 498 Apr 26 j 10.12 cepening set 498 Apr 26 j 11.22 cepening set 499 Apr 26 j 11.23 cepening set 499 Apr 26 j 11.24 cepening	•			4°07'48				
min. Earth dist. 498 Feb 28 j 66:36 5°9 2228 o 6:4611 AU evening set 503 Jm 03 jl 1:27 o 69°3 28°ID139 direct 498 Apr 29 j66:48 0°9			~			·		
direct 498 Mar 15 j 22:22 30°RΩ conjunction 503 Jul 20 j 19:53 28°E916'27 1'08'23 desc. node 498 Jun 30 j 04:16 26°B9'02! conjunction 503 Jul 20 j 19:53 28°E916'27 1'08'23 498 Jun 30 j 04:16 26°B9'02! max. Earth dist. 503 Jul 21 joine 28°E916'27 1'08'23 498 Not 02 j 21:26 0°A morning rise 503 Jul 21 joine 22'E9312'56 6-6783 AU 498 Not 10 j 10:08 0°B 0°B 60°B 503 Sop 08 j 13:26 0°B 26°33 AU 498 Not 11 j 10:08 0°B 0°B 60°B		-			evening set			
direct 498 Apr 29 j06.48 0° № conjunction 503 Jul 20 j19.53 28°521627 1°08′24 desc. node 498 Jul 30 j04:16 26° № conjunction 503 Jul 20 j19.53 28°521527 1°08′24 498 Aug 21 j2222 0° № conjunction 503 Jul 21 j06:14 28°521526 26.7383 AU 498 Aug 21 j2222 0° № conjunction 503 Sep 03 j17:18 26°£0546 60 Jul 21 j06:14 28°521526 26.7383 AU 498 Nov 11 j06:08 0° № conjunction 503 Sep 03 j17:18 26°£0546 60 Sep 03 j17:18 26°£052546 60 Sep 03 j17:18 <td>min. Darur dige.</td> <td>-</td> <td></td> <td>0.0.011110</td> <td>evening sec</td> <td></td> <td></td> <td></td>	min. Darur dige.	-		0.0.011110	evening sec			
desc. node	direct	·				303 Juli 00 j 13.10	0 3	
desc. node	ancet				conjunction	503 Jul 20 i 19:53	28°©16'27	1°08'23
May Ruy 1 2 2 2 2 2 2 2 2 2	desc node				-			
498 Aug 21 1 22:22 0° R morning rise 503 Jul 23 1 12:57 0° Ω C 3 G 3 Hol 24 1 17:18 C 3 Hol 24 Hol 2	desc. node				_			
May Nov 11 job. 08					max. Earth dist.	·		2.07383 AU
498 Nov 11 j 06:08					morning rise	·		
evening set 498 Dec 19 j 12:45 0°% 503 Dec 10 j 00:22 0°M evening set 499 Jan 26 j 21:03 0°M 503 Dec 10 j 00:22 0°M 499 Mar 07 j 05:40 0°M° desc. node 504 Feb 20 j 01:14 17° x3 036 499 Mar 17 j 07:12 0°M° desc. node 504 Feb 20 j 01:14 17° x3 036 conjunction 499 Apr 25 j 15:21 5°M557 0°0225 504 Mar 10 j 03:23 0°% conjunction 499 Apr 25 j 15:31 5°M5572 0°0225 retrograde 504 Jul 16 j 05:04 0°M3507 behind sub ned 499 Apr 24 j 15:23 5°M5574 0°0225 retrograde 504 Jul 16 j 05:04 0°M3507 behind sub ned 499 Apr 24 j 15:23 5°M5759 min. Earth dist. 504 Jul 16 j 05:04 0°M3508 asc. node 499 Apr 29 j 11:12 8°M3656 min. Earth dist. 504 Aug 15 j 06:34 24°%85551 6°2726 max. Earth dist. 499 May 30 j 10:16 0°T direct 504 Aug 15 j 07:49 22°%80904 29m desc. node 499 Jul 14 j 16:04 0°M <td></td> <td>-</td> <td></td> <td></td> <td>morning rise</td> <td></td> <td></td> <td></td>		-			morning rise			
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evening set 499 Feb 23 j 02:12 499 Mar 07 j 05:40 499 Apr 17 j 07:12 6°8 6°9 Apr 17 j 07:12 6°9 Apr 25 j 15:21 6°9 Apr 25 j 15:21 6°9 Apr 25 j 15:31 6°9 Apr 26 j 15:32 6°9 By 5°9 By 5°9 6°9 By 5								
499 Mar 07 j 05:40 0°P 6 c	. ,	·				·		
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Conjunction 499 Apr 25 j 15:21 5°\B5507 -0°0225 504 Apr 26 j 21:55 0°\B12 6°\B13507 0°0225 504 Jul 06 j 21:24 0°\B13507 0°\B12507 0°\B1250		-			desc. node			
Conjunction May Apr 25 j 15:21 5° 85507 0°02'25 retrograde 504 Jul 06 j 21:24 0° \(\alpha \) \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		499 Apr 1/J 0/:12	0.0					
minimum elong 499 Apr 25 j 15:31 5°855'24 0°02'25 retrograde 504 Jul 16 j 05:04 0°⅓35'07 30°%≈ 504 Jul 25 j 10:35 30°%≈		400 A 25 : 15 21	50 0 5 510 7	0000125		1 3		
behind sun begin 499 Apr 24 j 15:23 5°8 12'47 min. Earth dist. 504 Aug 12 j 08:54 26°∞1723 0.38230 AU asc. node 499 Apr 29 j 11:12 8°836'56 min. Earth dist. 504 Aug 16 j 15:44 24°∞55'51 -6°27'26 max. Earth dist. 499 May 30 j 11:20 0° Π01'49 2.54451 AU greatest brilliancy 504 Aug 16 j 15:44 24°∞55'51 -6°27'26 max. Earth dist. 499 May 30 j 10:16 0° Π direct 504 Sep 15 j 07:49 19°∞52'07 -2.9 m morning rise 499 Jun 20 j 03:44 13° Π54'49 asc. node 504 Dec 23 j 16:58 0° Ψ 499 Aug 30 j 22:22 0° Ω asc. node 504 Dec 19 j 08:09 27° ₩25'11 0° ₩ 505 Feb 10 j 15:54 0° Ψ 70 W 70	3	1 3			. 1	3		
Behind sun end 499 Apr 26 j 15:39 6°83759 min. Earth dist. 504 Aug 12 j 08:54 26°≈07'23 0.38230 AU asc. node 499 Apr 29 j 11:12 8°836'56 opposition 504 Aug 16 j 15:44 24°≈55'51 -6°27'26 opposition 504 Aug 16 j 15:44 24°≈55'51 -6°27'26 opposition 504 Aug 16 j 15:44 24°≈55'51 -6°27'26 opposition 504 Aug 16 j 16:44 24°≈55'51 -6°27'26 opposition 504 Aug 16 j 16:44 24°≈55'51 -6°27'26 opposition 504 Aug 16 j 16:44 25°≈60'904 -2.9m opposition 499 Jul 14 j 16:04 0°®				0°02′25	retrograde			
asc. node 499 Apr 29 j 11:12 8° 83656 opposition 504 Aug 16 j 15:44 24° 85551 -6°27'26 max. Earth dist. 499 May 30 j 11:20 0° Π01'49 2.54451 AU greatest brilliancy 504 Aug 16 j 10:48 25° 809'04 -2.9m morning rise 499 Jun 20 j 03:44 13° Π5449 soc. node 504 Oct 27 j 21:14 0° Η	•				: E 4 E 4			0.20220 411
max. Earth dist. 499 May 30 j 11:20 d99 May 30 j 10:16 0° Π 01'49 l1'49 l0'14 l0'15 2.54451 AU direct 504 Aug 15 j 20:48 l5 j 07:49 l9°≈52'07 2.9m morning rise 499 Jun 20 j 03:44 l4 j 16:04 l49 l1 l4 j 16:04 l49 l1 l4 j 16:04 l499 l1 l499 l1 l4 j 16:04 l499 l1 l4 j 16:04 l499 l1 l4 j 16:04 l499 l1 l499 l1 l4 j 16:04 l499 l1 l499 l1 l4 j 16:04 l499 l1 l4 j 16:04								
Morning rise 499 May 30 j 10:16 0°∏ direct 504 Sep 15 j 07:49 19°≈52'07				0.54451.477		• •		
Morning rise 499 Jun 20 j 03:44 13° Π54'49 asc. node 504 Dec 19 j 08:09 27° H25'17 499 Jul 14 j 16:04 0° Φ asc. node 504 Dec 19 j 08:09 27° H25'17 499 Aug 30 j 22:22 0° Ω 504 Dec 23 j 16:58 0° Ψ 699 Dec 19 j 14:14 0° Ψ 505 Feb 10 j 15:54 0° Φ 699 Dec 13 j 09:52 0° Φ 505 Mar 30 j 13:40 0° Π 699 Dec 13 j 09:52 23° Φ52'30 505 Mar 30 j 13:40 0° Π 699 Dec 13 j 09:52 16° Φ06'45 1° 56'49 505 Mar 30 j 13:40 0° Π 699 Dec 13 j 09:29 16° Φ06'45 1° 56'49 505 Mar 30 j 13:40 0° Ω 699 Dec 13 j 09:29 15° Φ53'28 -1.9m evening set 505 Jul 04 j 06:38 0° Ω 699 Dec 13 j 09:19 13° Φ18'29 0.55213 AU max. Earth dist. 505 Aug 20 j 07:54 0° Ψ 699 Dec 13 j 09:19 13° Φ18'29 0.55213 AU max. Earth dist. 505 Aug 20 j 07:54 0° Ψ 699 Dec 13 j 09:19 13° Φ18'29 0.55213 AU max. Earth dist. 505 Aug 20 j 07:54 0° Ψ 699 Dec 13 j 09:19 699 Dec 13 j 09:19 0° Ψ 699 Dec 13 j 09:29 0° Φ 699 Dec 13 j 09:29	max. Earth dist.			2.54451 AU	-			-2.9m
499 Jul 14 j 16:04 0°\$ asc. node 504 Dec 19 j 08:09 27° \times 25'17 499 Aug 30 j 22:22 0°\$ \(\text{Q} \)					direct			
499 Aug 30 j 22:22 0° Ω 504 Dec 23 j 16:58 0° Υ 499 Oet 19 j 14:14 0° ™ 505 Feb 10 j 15:54 0° ℧ 499 Dec 13 j 09:52 0° Φ 505 Mar 30 j 13:40 0° Щ retrograde 500 Feb 27 j 23:45 23° Φ 25:30 505 Mar 30 j 13:40 0° Щ retrograde 500 Feb 27 j 23:45 23° Φ 25:30 505 Mar 30 j 13:40 0° Щ retrograde 500 Apr 04 j 02:59 16° Φ 06'45 1° 56'49 505 Jul 04 j 06:38 0° Ω greatest brilliancy 500 Apr 04 j 22:59 16° Φ 06'45 1° 56'49 evening set 505 Jul 10 j 20:16 4° Ω 09'01 min. Earth dist. 500 Apr 12 j 00:19 13° Φ 18'29 0.55213 AU max. Earth dist. 505 Aug 12 j 18:32 25° Ω 08'00 2.65749 AU direct 500 May 17 j 02:56 6° Φ 46'25 desc. node 500 May 17 j 02:56 6° Φ 46'25 500 Jul 22 j 04:14 0° ™ conjunction 505 Aug 25 j 13:18 3° ™ 22'35 1°02'45 500 Sep 07 j 05:15 0° ₹ minimum elong 505 Aug 25 j 14:11 3° ™ 24'02 1°02'44 500 Oct 18 j 09:28 0° ₹ morning rise 505 Oct 09 j 11:34 2° Φ 54'33 501 Jan 04 j 20:37 0° ★ 505 Nov 18 j 09:11 0° ™ asc. node 501 Mar 16 j 10:52 21° Υ 58'53 desc. node 506 Mar 23 j 09:58 0° ₹ evening set 501 Apr 20 j 06:34 16° ℧ 15'26 506 Mar 23 j 09:58 0° ₹ evening set 501 Apr 20 j 06:34 16° ℧ 15'26 506 Mar 23 j 09:58 0° ₹ evening set 501 Apr 20 j 06:34 16° ℧ 15'26 506 Mar 23 j 09:58 0° ₹ evening set 501 Apr 20 j 06:34 16° ℧ 15'26 506 Mar 23 j 09:58 0° ₹ Feb 14 j 00:06 0° Ψ 506 Mar 23 j 09:58 0° ₹ evening set 501 Apr 20 j 06:34 16° ℧ 15'26 506 Mar 23 j 09:58 0° ₹ evening set 501 Apr 20 j 06:34 16° ℧ 15'26 506 Mar 23 j 09:58 0° ₹	morning rise	-				-		
499 Oct 19 j 14:14 0° m 505 Feb 10 j 15:54 0° b 69 m 505 Feb 10 j 15:54 0° b 69 m 690 Feb 27 j 23:45 23° Δ52'30 505 Mar 30 j 13:40 0° Π 7 m 600 Feb 27 j 23:45 23° Δ52'30 7 m 600 Feb 27 j 23:45 23° Δ52'30 7 m 600 Feb 27 j 23:45 23° Δ52'30 7 m 600 Feb 27 j 23:45 23° Δ52'30 7 m 600 Feb 27 j 23:45 7 m 7 m 600 Feb 27 j 23:45 7 m 7 m 600 Feb 27 j 23:45 7 m 7 m 600 Feb 27 j 23:45 7 m 7 m 600 Feb 27 j 23:45 7 m		-			asc. node			
retrograde 500 Feb 27 j 23:45 23° Ω 52'30 500 Peb 27 j 23:45 23° Ω 50'24 50'2						-		
retrograde 500 Feb 27 j 23:45 23° 年 52'30								
opposition 500 Apr 04 j 08:29 greatest brilliancy greatest brilliancy 16° £06′45 1°56′49 505 Jul 04 j 06:38 lo³ Qr 0° Ω lo³ Qr min. Earth dist. 500 Apr 04 j 22:59 lo³ 15° £53′28 lo³ 1.9m evening set 505 Jul 10 j 20:16 lo³ 20:16 lo³ 20:019 lo³ 20:019 lo³ 20:19								
greatest brilliancy	•	-		1057140				
min. Earth dist. 500 Apr 12 j 00:19 13° Ω18'29 0.55213 AU max. Earth dist. 505 Aug 12 j 18:32 25° Ω08'00 2.65749 AU direct 500 May 14 j 06:48 6° Ω43'10 505 Aug 20 j 07:54 0° № conjunction 505 Aug 20 j 07:54 0° № conjunction 505 Aug 25 j 13:18 3° № 22'35 1°02'45 500 Sep 07 j 05:15 0° № minimum elong 505 Aug 25 j 14:11 3° № 24'02 1°02'44 500 Oct 18 j 09:28 0° ♂ morning rise 505 Oct 05 j 02:55 0° Ω 505 Oct 05 j 02:55 0° Ω 505 Nov 18 j 09:11 0° № 505 Feb 14 j 00:06 0° № 505 Dec 31 j 03:38 0° № asc. node 501 Mar 16 j 10:52 21° № 58'53 desc. node 506 Jan 07 j 00:34 4° № 501 Mar 27 j 19:33 0° ੴ 505 May 10 j 13:02 0° № 506 May 03 j 08:10 0° № 506 May 03 j 08:10 0° № 506 Jun 15 j 13:08 0° № 506 Jun 15 j 13:08 0° №								
direct 500 May 14 j 06:48 6°至43'10 desc. node 500 May 17 j 02:56 6°至46'25 500 Jul 22 j 04:14 0°肌 conjunction 505 Aug 25 j 13:18 3°顶22'35 1°02'45 500 Sep 07 j 05:15 0°ズ minimum elong 505 Aug 25 j 14:11 3°顶24'02 1°02'44 500 Oct 18 j 09:28 0°궁 500 Nov 26 j 16:33 0°≈ morning rise 505 Oct 05 j 02:55 0°至 500 Nov 26 j 16:33 0°% morning rise 505 Nov 18 j 09:11 0°肌 501 Feb 14 j 00:06 0°Ŷ 505 Dec 31 j 03:38 0°ズ asc. node 501 Mar 16 j 10:52 21°Ŷ58'53 desc. node 506 Feb 10 j 15:57 0°♂ evening set 501 Apr 20 j 06:34 16°℃15'26 506 May 03 j 08:10 0°升 506 May 03 j 08:10 0°升 506 May 10 j 13:02 0°升	-				_			2 (5510 17)
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500 Jul 22 j 04:14 0°M conjunction 505 Aug 25 j 13:18 3°M 22'35 1°02'45 500 Sep 07 j 05:15 0° ⊀ minimum elong 505 Aug 25 j 14:11 3°M 24'02 1°02'44 500 Oct 18 j 09:28 0° ₹ 505 Oct 05 j 02:55 0° Ω						505 Aug 20 J 07:54	Oolib	
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500 Oct 18 j 09:28 0° ₹ 500 Nov 26 j 16:33 0° ≈ morning rise 505 Oct 05 j 02:55 0° £ 500 Nov 26 j 16:33 0° ≈ morning rise 505 Oct 09 j 11:34 2° £ 54'33 501 Jan 04 j 20:37 0° ₹ 505 Nov 18 j 09:11 0° № 505 Dec 31 j 03:38 0° ₹ 301 Mar 16 j 10:52 21° № 58'53 desc. node 506 Jan 07 j 00:34 4° ₹ 54'42 501 Mar 27 j 19:33 0° ₹ 506 Mar 23 j 09:58 0° ₹ 506 Mar 23 j 09:58 0° ₹ 501 May 10 j 13:02 0° № 506 May 03 j 08:10 0° ₹ 506 Jan 15 j 13:08 0		-			-	• •		
500 Nov 26 j 16:33 0°≈ morning rise 505 Oct 09 j 11:34 2°Ω54'33 501 Jan 04 j 20:37 0° H 505 Nov 18 j 09:11 0° M 501 Feb 14 j 00:06 0° Y 505 Dec 31 j 03:38 0° ℤ asc. node 501 Mar 16 j 10:52 21° Y 58'53 desc. node 506 Jan 07 j 00:34 4° ℤ 54'42 501 Mar 27 j 19:33 0° ℤ 506 Feb 10 j 15:57 0° ℤ evening set 501 Apr 20 j 06:34 16° ℤ 15'26 506 Mar 23 j 09:58 0° ≈ 501 May 10 j 13:02 0° ∏ 506 May 03 j 08:10 0° ℋ 506 Jun 15 j 13:08 0° Ψ					minimum elong			1~02'44
501 Jan 04 j 20:37 0° H 501 Feb 14 j 00:06 0° Υ asc. node 501 Mar 16 j 10:52 21° Υ 58'53 desc. node 501 Mar 27 j 19:33 0° B evening set 501 Apr 20 j 06:34 16° B15'26 501 May 10 j 13:02 0° Π 505 Nov 18 j 09:11 0° Π 505 Dec 31 j 03:38 0° A 4° A 54'42 506 Feb 10 j 15:57 0° B 506 Mar 23 j 09:58 0° ∞ 506 May 03 j 08:10 0° H 506 Jun 15 j 13:08 0° Υ		-						
501 Feb 14j 00:06 0°Υ 505 Dec 31j 03:38 0°ℤ asc. node 501 Mar 16j 10:52 21°Υ58'53 desc. node 506 Jan 07j 00:34 4°ℤ'54'42 501 Mar 27j 19:33 0°℧ 506 Feb 10j 15:57 0°℧ evening set 501 Apr 20j 06:34 16°℧15'26 506 Mar 23j 09:58 0°☎ 501 May 10j 13:02 0°Ⅱ 506 May 03j 08:10 0°ℋ 506 Jun 15j 13:08 0°♈					morning rise			
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506 Jun 15 j 13:08 0° Υ	evening set							
· · · · · · · · · · · · · · · · · · ·		501 May 10 j 13:02	0,П					
conjunction 501 Jun 11 j 13:10 21° ⊥ 12'40 0°46'54 506 Aug 08 j 14:39 0° ♂		501 Y	010	004617		-		
	conjunction	501 Jun 11 j 13:10	21° 11 12'40	0°46'54		506 Aug 08 j 14:39	0° 0	

retrograde	506 Sep 13 j 13:58	8° 8 07'12		evening set	511 Nov 19 j 16:06	14° ∡ ¹05'49	
min. Earth dist.	506 Oct 13 j 00:10	2° 8 09'13	0.49445 AU		511 Dec 10 j 04:44	0°ප	
	506 Oct 18 j 21:36	30° ŖƳ			512 Jan 17 j 07:41	0° ≈	
opposition	506 Oct 20 j 23:52	29° Ƴ 13'45	-0°50'52				
greatest brilliancy	506 Oct 20 j 18:12	29° Ƴ 18'56	-2.2m	conjunction	512 Jan 22 j 14:03	4° ≈ 09'32	-1°05'01
asc. node	506 Nov 06 j 07:36	24° Y 04'11		minimum elong	512 Jan 22 j 13:41	4° ≈ 08'48	1°05'02
direct	506 Nov 23 j 22:45	21° Y 58'36		max. Earth dist.	512 Feb 07 j 03:40	16° ≈ 26′17	2.37261 AU
	507 Jan 01 j 16:52	9° 8			512 Feb 24 j 10:50	0° ∀	
	507 Mar 05 j 08:30	$\Pi^{\circ}0$		morning rise	512 Apr 01 j 18:41	28°) 43′18	
	507 Apr 26 j 16:33	0 \circ \odot			512 Apr 03 j 11:17	$0^{\circ}\mathbf{\Upsilon}$	
	507 Jun 15 j 08:00	$0^{\circ}\Omega$			512 May 14 j 03:43	$_{0\circ}$ 8	
	507 Aug 02 j 01:03	O° m			512 Jun 26 j 03:37	$\Pi^{\circ}0$	
evening set	507 Aug 17 j 10:45	9° m 57′50		asc. node	512 Jun 28 j 04:59	1° Ⅲ 23′23	
max. Earth dist.	507 Sep 07 j 14:37	23° m 54'26	2.58845 AU		512 Aug 11 j 03:40	0° ©	
	507 Sep 16 j 17:05	0∘ ত			512 Sep 30 j 22:15	$0^{\circ}\Omega$	
					512 Dec 09 j 23:01	0° m p	
conjunction	507 Oct 03 j 11:04	11° ≏ 22'15	0°30'46	retrograde	513 Jan 01 j 17:23	2° m 53'56	
minimum elong	507 Oct 03 j 12:09	11° ≙ 24'06	0°30'45		513 Jan 22 j 23:00	30° ₹Ω	
	507 Oct 30 j 06:07	0°M,		opposition	513 Feb 10 j 04:51	23° Ω 37'51	4°27'52
morning rise	507 Nov 21 j 06:23	15°M42'49		greatest brilliancy	513 Feb 10 j 14:17	23° £ 28′33	-1.3m
desc. node	507 Nov 25 j 00:07	18°ML25'12		min. Earth dist.	513 Feb 12 j 22:47	22° Ω 32'54	0.66588 AU
	507 Dec 10 j 20:32	0° ∡ ¹		direct	513 Mar 23 j 13:47	13° Ω 36'42	
	508 Jan 19 j 22:00	6°0			513 May 22 j 08:56	0° m	
	508 Feb 28 j 01:03	0° ≈		desc. node	513 Jul 16 j 20:11	0° £ 29'31	
	508 Apr 07 j 00:38	0°) €			513 Jul 16 j 01:05	0° ⊽	
	508 May 16 j 21:39	$0^{\circ}\mathbf{\Upsilon}$			513 Aug 30 j 13:42	0° M ,	
	508 Jun 28 j 05:13	9° 8			513 Oct 11 j 00:11	0° ∡ ¹	
	508 Aug 15 j 11:41	$0^{\circ}\Pi$			513 Nov 19 j 03:52	ರ∘ರ	
asc. node	508 Sep 23 j 05:44	17° Ⅱ 47'21			513 Dec 27 j 07:18	0° ≈	
retrograde	508 Oct 24 j 12:09	23° Ⅲ 35'38		greatest brilliancy	514 Jan 05 j 19:41	7° ≈ 30'21	1.2m
min. Earth dist.	508 Nov 28 j 06:22	15° Ⅱ 38'38	0.61021 AU	evening set	514 Jan 27 j 04:26	24° ≈ 17′08	
opposition	508 Dec 03 j 05:16	13° Ⅱ 40′23	2°49'28		514 Feb 03 j 12:21	0° ℋ	
greatest brilliancy	508 Dec 02 j 16:05	13° Ⅱ 53'31	-1.6m		514 Mar 14 j 16:58	0 ° $\mathbf{\gamma}$	
direct	509 Jan 09 j 23:47	4° Ⅱ 51'58					
	509 Mar 30 j 05:54	0ංම		conjunction	514 Apr 02 j 15:27	14° Ƴ 04'24	
	509 May 24 j 09:34	$0^{\circ}\Omega$		conjunction minimum elong	514 Apr 02 j 17:22	14° Ƴ 07'55	
	509 May 24 j 09:34 509 Jul 12 j 22:25	0° Ω 0° ™		minimum elong	514 Apr 02 j 17:22 514 Apr 24 j 14:10	14° Ƴ 07'55 0° ႘	0°26'50
	509 May 24 j 09:34 509 Jul 12 j 22:25 509 Aug 28 j 02:12	0° & 0° ™ 0° %		-	514 Apr 02 j 17:22 514 Apr 24 j 14:10 514 May 15 j 20:45	14° Y 07'55 0° 엉 15° 엉 02'25	
evening set	509 May 24 j 09:34 509 Jul 12 j 22:25 509 Aug 28 j 02:12 509 Sep 27 j 05:49	0° Ω 0° ™ 0° ⊆ 20° ⊆ 40'21		minimum elong	514 Apr 02 j 17:22 514 Apr 24 j 14:10 514 May 15 j 20:45 514 May 16 j 03:20	14°Y07'55 0°8 15°802'25 15°813'54	0°26'50
	509 May 24 j 09:34 509 Jul 12 j 22:25 509 Aug 28 j 02:12 509 Sep 27 j 05:49 509 Oct 10 j 10:46	0° ብ 0° ጥ 0° 亞 20° 亞 40'21 0° ጤ		minimum elong max. Earth dist.	514 Apr 02 j 17:22 514 Apr 24 j 14:10 514 May 15 j 20:45 514 May 16 j 03:20 514 Jun 01 j 15:24	14°Y07'55 0°8 15°802'25 15°813'54 26°837'44	0°26'50
desc. node	509 May 24 j 09:34 509 Jul 12 j 22:25 509 Aug 28 j 02:12 509 Sep 27 j 05:49 509 Oct 10 j 10:46 509 Oct 11 j 22:47	0° ብ 0° ነው 0° ഛ 20° ഛ 40'21 0° ጤ 1° ጤ04'11		minimum elong max. Earth dist. asc. node	514 Apr 02 j 17:22 514 Apr 24 j 14:10 514 May 15 j 20:45 514 May 16 j 03:20 514 Jun 01 j 15:24 514 Jun 06 j 14:01	14°Y07'55 0°8 15°802'25 15°813'54 26°837'44 0°∏	0°26'50
	509 May 24 j 09:34 509 Jul 12 j 22:25 509 Aug 28 j 02:12 509 Sep 27 j 05:49 509 Oct 10 j 10:46	0° ብ 0° ነው 0° ഛ 20° ഛ 40'21 0° ጤ 1° ጤ04'11	2.47440 AU	minimum elong max. Earth dist. asc. node	514 Apr 02 j 17:22 514 Apr 24 j 14:10 514 May 15 j 20:45 514 May 16 j 03:20 514 Jun 01 j 15:24 514 Jun 06 j 14:01 514 Jul 21 j 20:26	14°Y07'55 0°8 15°802'25 15°813'54 26°837'44 0°耳 0°9	0°26'50
desc. node max. Earth dist.	509 May 24 j 09:34 509 Jul 12 j 22:25 509 Aug 28 j 02:12 509 Sep 27 j 05:49 509 Oct 10 j 10:46 509 Oct 11 j 22:47 509 Oct 11 j 19:11	0° ብ 0° መ 0° <u>ዓ</u> 20° ዓ 40'21 0° ጤ 1° ጤ04'11 0° ጤ57'46		minimum elong max. Earth dist. asc. node	514 Apr 02 j 17:22 514 Apr 24 j 14:10 514 May 15 j 20:45 514 May 16 j 03:20 514 Jun 01 j 15:24 514 Jun 06 j 14:01 514 Jul 21 j 20:26 514 Sep 07 j 13:33	14°Y07'55 0°8 15°802'25 15°813'54 26°837'44 0°用 0°の	0°26'50
desc. node max. Earth dist.	509 May 24 j 09:34 509 Jul 12 j 22:25 509 Aug 28 j 02:12 509 Sep 27 j 05:49 509 Oct 10 j 10:46 509 Oct 11 j 22:47 509 Oct 11 j 19:11 509 Nov 18 j 19:53	0° ብ 0° መ 0° <u>ዓ</u> 20° ዓ 40'21 0° ጤ 1° ጤ04'11 0° ጤ57'46	-0°23'39	minimum elong max. Earth dist. asc. node	514 Apr 02 j 17:22 514 Apr 24 j 14:10 514 May 15 j 20:45 514 May 16 j 03:20 514 Jun 01 j 15:24 514 Jun 06 j 14:01 514 Jul 21 j 20:26 514 Sep 07 j 13:33 514 Oct 28 j 20:36	14°Y07'55 0°8 15°802'25 15°813'54 26°837'44 0°耳 0°の 0°の 0°の	0°26'50
desc. node max. Earth dist.	509 May 24 j 09:34 509 Jul 12 j 22:25 509 Aug 28 j 02:12 509 Sep 27 j 05:49 509 Oct 10 j 10:46 509 Oct 11 j 22:47 509 Oct 11 j 19:11 509 Nov 18 j 19:53 509 Nov 18 j 18:35	0° ብ 0° ነው 0°	-0°23'39	max. Earth dist. asc. node morning rise	514 Apr 02 j 17:22 514 Apr 24 j 14:10 514 May 15 j 20:45 514 May 16 j 03:20 514 Jun 01 j 15:24 514 Jun 06 j 14:01 514 Jul 21 j 20:26 514 Sep 07 j 13:33 514 Oct 28 j 20:36 514 Dec 30 j 19:47	14°Y07'55 0°8 15°802'25 15°813'54 26°837'44 0°用 0°の 0°の 0°の 0°の 0°の	0°26'50
desc. node max. Earth dist.	509 May 24 j 09:34 509 Jul 12 j 22:25 509 Aug 28 j 02:12 509 Sep 27 j 05:49 509 Oct 10 j 10:46 509 Oct 11 j 22:47 509 Oct 11 j 19:11 509 Nov 18 j 19:53 509 Nov 18 j 18:35 509 Nov 20 j 11:56	0° ብ 0° ጥ 0° <u>ዓ</u> 20° <u>ዓ</u> 40'21 0° ጤ 1° ጤ04'11 0° ጤ57'46 28° ጤ45'08 28° ጤ42'42 0° ጃ	-0°23'39	minimum elong max. Earth dist. asc. node morning rise retrograde	514 Apr 02 j 17:22 514 Apr 24 j 14:10 514 May 15 j 20:45 514 May 16 j 03:20 514 Jun 01 j 15:24 514 Jun 06 j 14:01 514 Jul 21 j 20:26 514 Sep 07 j 13:33 514 Oct 28 j 20:36 514 Dec 30 j 19:47 515 Feb 09 j 23:42	14°Y07'55 0°8 15°802'25 15°813'54 26°837'44 0°II 0°S 0°A 0°M 0°B 8°£23'51	0°26'50 2.49601 AU
desc. node max. Earth dist. conjunction minimum elong	509 May 24 j 09:34 509 Jul 12 j 22:25 509 Aug 28 j 02:12 509 Sep 27 j 05:49 509 Oct 10 j 10:46 509 Oct 11 j 22:47 509 Oct 11 j 19:11 509 Nov 18 j 19:53 509 Nov 18 j 18:35 509 Nov 20 j 11:56 509 Dec 29 j 20:30	0° ብ 0° ጥ 0°	-0°23'39	max. Earth dist. asc. node morning rise	514 Apr 02 j 17:22 514 Apr 24 j 14:10 514 May 15 j 20:45 514 May 16 j 03:20 514 Jun 01 j 15:24 514 Jun 06 j 14:01 514 Jul 21 j 20:26 514 Sep 07 j 13:33 514 Oct 28 j 20:36 514 Dec 30 j 19:47 515 Feb 09 j 23:42 515 Mar 19 j 13:00	14°Y07'55 0°8 15°802'25 15°813'54 26°837'44 0°用 0°9 0°0 0°1 0°1 0°1 0°1 0°1 0°1 0°1 0°1 0°1	0°26'50 2.49601 AU
desc. node max. Earth dist.	509 May 24 j 09:34 509 Jul 12 j 22:25 509 Aug 28 j 02:12 509 Sep 27 j 05:49 509 Oct 10 j 10:46 509 Oct 11 j 22:47 509 Oct 11 j 19:11 509 Nov 18 j 19:53 509 Nov 20 j 11:56 509 Dec 29 j 20:30 510 Jan 17 j 08:21	0° ብ 0° ሙ 0° ው 20° ው 40'21 0° ጤ 1° ጤ04'11 0° ጤ57'46 28° ጤ45'08 28° ጤ42'42 0° ፉ ፣ 0° ጜ 14° ጜ23'05	-0°23'39	minimum elong max. Earth dist. asc. node morning rise retrograde opposition	514 Apr 02 j 17:22 514 Apr 24 j 14:10 514 May 15 j 20:45 514 May 16 j 03:20 514 Jun 01 j 15:24 514 Jun 06 j 14:01 514 Jul 21 j 20:26 514 Sep 07 j 13:33 514 Oct 28 j 20:36 514 Dec 30 j 19:47 515 Feb 09 j 23:42 515 Mar 19 j 13:00 515 Mar 19 j 18:50	14°Y07'55 0°8 15°802'25 15°813'54 26°837'44 0°用 0°の 0°の 0°か 0°血 8°至23'51 0°至05'30 30°R順	0°26'50 2.49601 AU 3°03'47
desc. node max. Earth dist. conjunction minimum elong morning rise	509 May 24 j 09:34 509 Jul 12 j 22:25 509 Aug 28 j 02:12 509 Sep 27 j 05:49 509 Oct 10 j 10:46 509 Oct 11 j 22:47 509 Oct 11 j 19:11 509 Nov 18 j 18:35 509 Nov 20 j 11:56 509 Dec 29 j 20:30 510 Jan 17 j 08:21 510 Feb 06 j 06:48	0° N 0° M 0° 9 20° 940'21 0° M 1° M04'11 0° M 57'46 28° M42'42 0° 🖈 0° రె 14° రె23'05 0° ≈	-0°23'39 0°23'38	minimum elong max. Earth dist. asc. node morning rise retrograde opposition greatest brilliancy	514 Apr 02 j 17:22 514 Apr 24 j 14:10 514 May 15 j 20:45 514 May 16 j 03:20 514 Jun 01 j 15:24 514 Jun 06 j 14:01 514 Jul 21 j 20:26 514 Sep 07 j 13:33 514 Oct 28 j 20:36 514 Dec 30 j 19:47 515 Feb 09 j 23:42 515 Mar 19 j 13:00 515 Mar 20 j 06:53	14°Y07'55 0°8 15°802'25 15°813'54 26°837'44 0°11 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 8°\$23'51 0°\$05'30 30°\$\$\$ 180 148'36	0°26'50 2.49601 AU 3°03'47 -1.6m
desc. node max. Earth dist. conjunction minimum elong	509 May 24 j 09:34 509 Jul 12 j 22:25 509 Aug 28 j 02:12 509 Sep 27 j 05:49 509 Oct 10 j 10:46 509 Oct 11 j 22:47 509 Oct 11 j 19:11 509 Nov 18 j 19:53 509 Nov 18 j 18:35 509 Nov 20 j 11:56 509 Dec 29 j 20:30 510 Jan 17 j 08:21 510 Feb 06 j 06:48 510 Feb 12 j 16:43	0° \$\mathcal{O}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 20° \$\Lambda\$40'21 0° \$\mathcal{M}\$ 1° \$\mathcal{M}\$04'11 0° \$\mathcal{M}\$57'46 28° \$\mathcal{M}\$45'08 28° \$\mathcal{M}\$42'42 0° \$\sqrt{N}\$ 0° \$\sqrt{N}\$ 14° \$\sqrt{N}\$23'05 0° \$\infty\$ 5° \$\infty\$01'52	-0°23'39 0°23'38	minimum elong max. Earth dist. asc. node morning rise retrograde opposition greatest brilliancy min. Earth dist.	514 Apr 02 j 17:22 514 Apr 24 j 14:10 514 May 15 j 20:45 514 May 16 j 03:20 514 Jun 01 j 15:24 514 Jun 06 j 14:01 514 Jul 21 j 20:26 514 Sep 07 j 13:33 514 Oct 28 j 20:36 514 Dec 30 j 19:47 515 Feb 09 j 23:42 515 Mar 19 j 13:00 515 Mar 19 j 18:50 515 Mar 20 j 06:53 515 Mar 26 j 00:09	14°Y07'55 0°8 15°802'25 15°813'54 26°837'44 0°用 0°9 0°1 0°1 0°1 0°1 0°1 0°1 0°1 0°1 0°1 0°1	0°26'50 2.49601 AU 3°03'47 -1.6m
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desc. node max. Earth dist. conjunction minimum elong morning rise	509 May 24 j 09:34 509 Jul 12 j 22:25 509 Aug 28 j 02:12 509 Sep 27 j 05:49 509 Oct 10 j 10:46 509 Oct 11 j 22:47 509 Oct 11 j 19:11 509 Nov 18 j 19:53 509 Nov 18 j 18:35 509 Nov 20 j 11:56 509 Dec 29 j 20:30 510 Jan 17 j 08:21 510 Feb 06 j 06:48 510 Feb 12 j 16:43 510 Mar 16 j 15:04 510 Apr 24 j 18:48	0° \$\mathcal{O}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 20° \$\mathcal{D}\$40'21 0° \$\mathcal{M}\$ 1° \$\mathcal{M}\$04'11 0° \$\mathcal{M}\$57'46 28° \$\mathcal{M}\$45'08 28° \$\mathcal{M}\$42'42 0° \$\sqrt{D}\$ 0° \$\sqrt{D}\$ 14° \$\sqrt{D}\$23'05 0° \$\implies\$ 5° \$\implies\$01'52 0° \$\mathcal{H}\$ 0° \$\mathcal{Y}\$	-0°23'39 0°23'38	minimum elong max. Earth dist. asc. node morning rise retrograde opposition greatest brilliancy min. Earth dist.	514 Apr 02 j 17:22 514 Apr 24 j 14:10 514 May 15 j 20:45 514 May 16 j 03:20 514 Jun 01 j 15:24 514 Jun 06 j 14:01 514 Jul 21 j 20:26 514 Sep 07 j 13:33 514 Oct 28 j 20:36 514 Dec 30 j 19:47 515 Feb 09 j 23:42 515 Mar 19 j 13:00 515 Mar 19 j 18:50 515 Mar 20 j 06:53 515 Apr 29 j 09:01 515 Jun 03 j 19:08	14°Y07'55 0°8 15°802'25 15°813'54 26°837'44 0°耳 0°の 0°の 0°の 0°の 0°の 0°の 0°の 29°か 29°か 48'36 27°か 38'54 20°か 18'14 27°か 19'40	0°26'50 2.49601 AU 3°03'47 -1.6m
desc. node max. Earth dist. conjunction minimum elong morning rise	509 May 24 j 09:34 509 Jul 12 j 22:25 509 Aug 28 j 02:12 509 Sep 27 j 05:49 509 Oct 10 j 10:46 509 Oct 11 j 22:47 509 Oct 11 j 19:11 509 Nov 18 j 19:53 509 Nov 18 j 18:35 509 Nov 20 j 11:56 509 Dec 29 j 20:30 510 Jan 17 j 08:21 510 Feb 06 j 06:48 510 Feb 12 j 16:43 510 Apr 24 j 18:48 510 Jun 04 j 16:55	0° \$\mathcal{O}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 20° \$\mathcal{D}\$40'21 0° \$\mathcal{M}\$ 1° \$\mathcal{M}\$04'11 0° \$\mathcal{M}\$57'46 28° \$\mathcal{M}\$45'08 28° \$\mathcal{M}\$42'42 0° \$\nabla^{\sigma}\$ 0° \$\mathcal{G}\$ 14° \$\mathcal{G}\$23'05 0° \$\approx\$ 5° \$\approx\$01'52 0° \$\mathcal{H}\$ 0° \$\mathcal{Y}\$ 0° \$\mathcal{G}\$	-0°23'39 0°23'38	minimum elong max. Earth dist. asc. node morning rise retrograde opposition greatest brilliancy min. Earth dist. direct	514 Apr 02 j 17:22 514 Apr 24 j 14:10 514 May 15 j 20:45 514 May 16 j 03:20 514 Jun 01 j 15:24 514 Jun 06 j 14:01 514 Jul 21 j 20:26 514 Sep 07 j 13:33 514 Oct 28 j 20:36 514 Dec 30 j 19:47 515 Feb 09 j 23:42 515 Mar 19 j 13:00 515 Mar 19 j 18:50 515 Mar 20 j 06:53 515 Mar 26 j 00:09 515 Apr 29 j 09:01 515 Jun 03 j 19:08 515 Jun 10 j 17:54	14°Y07'55 0°8 15°802'25 15°802'25 15°813'54 26°837'44 0°11 0°50 0°10 0°10 0°10 0°10 0°10 0°10	0°26'50 2.49601 AU 3°03'47 -1.6m
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desc. node max. Earth dist. conjunction minimum elong morning rise greatest brilliancy asc. node retrograde min. Earth dist. opposition greatest brilliancy	509 May 24 j 09:34 509 Jul 12 j 22:25 509 Aug 28 j 02:12 509 Sep 27 j 05:49 509 Oct 10 j 10:46 509 Oct 11 j 22:47 509 Oct 11 j 19:11 509 Nov 18 j 19:53 509 Nov 18 j 18:35 509 Nov 20 j 11:56 509 Dec 29 j 20:30 510 Jan 17 j 08:21 510 Feb 06 j 06:48 510 Feb 12 j 16:43 510 Mar 16 j 15:04 510 Apr 24 j 18:48 510 Jun 04 j 16:55 510 Jul 18 j 13:17 510 Aug 11 j 05:02 510 Sep 05 j 18:56 510 Nov 28 j 22:21 511 Jan 06 j 22:57 511 Jan 08 j 02:20 511 Jan 07 j 20:56	0° \$\mathcal{O}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 20° \$\mathcal{D}\$40'21 0° \$\mathcal{M}\$ 1° \$\mathcal{M}\$04'11 0° \$\mathcal{M}\$57'46 28° \$\mathcal{M}\$42'42 0° \$\mathcal{A}\$ 0° \$\mathcal{D}\$ 14° \$\mathcal{D}\$23'05 0° \$\infty\$ 5° \$\infty\$01'52 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 15° \$\mathcal{D}\$00'25 0° \$\mathcal{D}\$ 29° \$\mathcal{D}\$33'23 20° \$\mathcal{D}\$11'33 19° \$\mathcal{D}\$44'06 19° \$\mathcal{D}\$49'30	-0°23'39 0°23'38 1.2m 0.67057 AU 4°21'51	minimum elong max. Earth dist. asc. node morning rise retrograde opposition greatest brilliancy min. Earth dist. direct desc. node	514 Apr 02 j 17:22 514 Apr 24 j 14:10 514 May 15 j 20:45 514 May 16 j 03:20 514 Jun 01 j 15:24 514 Jun 06 j 14:01 514 Jul 21 j 20:26 514 Sep 07 j 13:33 514 Oct 28 j 20:36 514 Dec 30 j 19:47 515 Feb 09 j 23:42 515 Mar 19 j 13:00 515 Mar 19 j 18:50 515 Mar 20 j 06:53 515 Mar 26 j 00:09 515 Apr 29 j 09:01 515 Jun 03 j 19:08 515 Jun 10 j 17:54 515 Sep 18 j 10:49 515 Oct 28 j 14:12 515 Dec 06 j 07:36 516 Jan 14 j 01:02 516 Feb 22 j 18:43 516 Mar 31 j 00:35	14°Y07'55 0°8 15°802'25 15°8013'54 26°837'44 0° II 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 8°\$23'51 0°\$05'30 30°\$\$ 18'14 27°\$18'14 27°\$19'40 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°	0°26'50 2.49601 AU 3°03'47 -1.6m
desc. node max. Earth dist. conjunction minimum elong morning rise greatest brilliancy asc. node retrograde min. Earth dist. opposition	509 May 24 j 09:34 509 Jul 12 j 22:25 509 Aug 28 j 02:12 509 Sep 27 j 05:49 509 Oct 10 j 10:46 509 Oct 11 j 22:47 509 Oct 11 j 19:11 509 Nov 18 j 19:53 509 Nov 18 j 18:35 509 Nov 20 j 11:56 509 Dec 29 j 20:30 510 Jan 17 j 08:21 510 Feb 06 j 06:48 510 Feb 12 j 16:43 510 Mar 16 j 15:04 510 Apr 24 j 18:48 510 Jun 04 j 16:55 510 Jul 18 j 13:17 510 Aug 11 j 05:02 510 Sep 05 j 18:56 510 Nov 28 j 22:21 511 Jan 06 j 22:57 511 Jan 07 j 20:56 511 Feb 17 j 07:45	0° \$\mathcal{O}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 20° \$\mathcal{D}\$40'21 0° \$\mathcal{M}\$ 1° \$\mathcal{M}\$04'11 0° \$\mathcal{M}\$57'46 28° \$\mathcal{M}\$45'08 28° \$\mathcal{M}\$42'42 0° \$\nalpha\$ 0° \$\mathcal{D}\$ 14° \$\mathcal{D}\$23'05 0° \$\infty\$ 5° \$\infty\$01'52 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 0° \$\mathcal{D}\$ 15° \$\mathcal{D}\$00'25 0° \$\mathcal{D}\$ 29° \$\mathcal{D}\$33'23 20° \$\mathcal{D}\$11'33 19° \$\mathcal{D}\$44'06 19° \$\mathcal{D}\$49'30 10° \$\mathcal{D}\$05'12	-0°23'39 0°23'38 1.2m 0.67057 AU 4°21'51	minimum elong max. Earth dist. asc. node morning rise retrograde opposition greatest brilliancy min. Earth dist. direct desc. node	514 Apr 02 j 17:22 514 Apr 24 j 14:10 514 May 15 j 20:45 514 May 16 j 03:20 514 Jun 01 j 15:24 514 Jun 06 j 14:01 514 Jul 21 j 20:26 514 Sep 07 j 13:33 514 Oct 28 j 20:36 514 Dec 30 j 19:47 515 Feb 09 j 23:42 515 Mar 19 j 13:00 515 Mar 20 j 06:53 515 Mar 20 j 06:53 515 Mar 26 j 00:09 515 Apr 29 j 09:01 515 Jun 03 j 19:08 515 Jun 10 j 17:54 515 Sep 18 j 10:49 515 Oct 28 j 14:12 515 Dec 06 j 07:36 516 Jan 14 j 01:02 516 Feb 22 j 18:43 516 Mar 31 j 00:35 516 Apr 02 j 02:10	14°Y07'55 0°8 15°802'25 15°813'54 26°837'44 0°用 0°5 0°1 0°5 0°5 0°5 0°5 0°5 0°18'14 27°19'40 0°5 0°18'14 27°19'40 0°5 0°18'14 27°19'40 0°18'14 27°19'40 0°18'14 27°19'40 0°18'14 27°19'40	0°26'50 2.49601 AU 3°03'47 -1.6m
desc. node max. Earth dist. conjunction minimum elong morning rise greatest brilliancy asc. node retrograde min. Earth dist. opposition greatest brilliancy	509 May 24 j 09:34 509 Jul 12 j 22:25 509 Aug 28 j 02:12 509 Sep 27 j 05:49 509 Oct 10 j 10:46 509 Oct 11 j 22:47 509 Oct 11 j 19:11 509 Nov 18 j 19:53 509 Nov 18 j 18:35 509 Nov 20 j 11:56 509 Dec 29 j 20:30 510 Jan 17 j 08:21 510 Feb 06 j 06:48 510 Feb 12 j 16:43 510 Mar 16 j 15:04 510 Apr 24 j 18:48 510 Jun 04 j 16:55 510 Jul 18 j 13:17 510 Aug 11 j 05:02 510 Sep 05 j 18:56 510 Nov 28 j 22:21 511 Jan 06 j 22:57 511 Jan 07 j 20:56 511 Feb 17 j 07:45 511 Apr 26 j 23:56	0° R 0° M 0° 9 20° 940'21 0° M 1° M.04'11 0° M.57'46 28° M.45'08 28° M.42'42 0° ₹ 0° ₹ 14° ₹23'05 0° ≈ 5° ≈01'52 0° ¥ 0° ¥ 0° ¶ 15° ∏00'25 0° 9 29° \$33'23 20° \$11'33 19° \$44'06 19° \$49'30 10° \$05'12 0° \$1	-0°23'39 0°23'38 1.2m 0.67057 AU 4°21'51	minimum elong max. Earth dist. asc. node morning rise retrograde opposition greatest brilliancy min. Earth dist. direct desc. node	514 Apr 02 j 17:22 514 Apr 24 j 14:10 514 May 15 j 20:45 514 May 16 j 03:20 514 Jun 01 j 15:24 514 Jun 06 j 14:01 514 Jul 21 j 20:26 514 Sep 07 j 13:33 514 Oct 28 j 20:36 514 Dec 30 j 19:47 515 Feb 09 j 23:42 515 Mar 19 j 13:00 515 Mar 20 j 06:53 515 Mar 20 j 06:53 515 Mar 20 j 06:53 515 Jun 03 j 19:08 515 Jun 03 j 19:08 515 Jun 10 j 17:54 515 Sep 18 j 10:49 515 Oct 28 j 14:12 515 Dec 06 j 07:36 516 Jan 14 j 01:02 516 Feb 22 j 18:43 516 Apr 02 j 02:10 516 Apr 04 j 05:06	14°Y07'55 0°8 15°802'25 15°802'25 15°813'54 26°837'44 0° II 0°5 0° A 0° II 10° II	0°26'50 2.49601 AU 3°03'47 -1.6m
desc. node max. Earth dist. conjunction minimum elong morning rise greatest brilliancy asc. node retrograde min. Earth dist. opposition greatest brilliancy	509 May 24 j 09:34 509 Jul 12 j 22:25 509 Aug 28 j 02:12 509 Sep 27 j 05:49 509 Oct 10 j 10:46 509 Oct 11 j 22:47 509 Oct 11 j 19:11 509 Nov 18 j 19:53 509 Nov 18 j 18:35 509 Nov 20 j 11:56 509 Dec 29 j 20:30 510 Jan 17 j 08:21 510 Feb 06 j 06:48 510 Feb 12 j 16:43 510 Mar 16 j 15:04 510 Apr 24 j 18:48 510 Jun 04 j 16:55 510 Jul 18 j 13:17 510 Aug 11 j 05:02 510 Sep 05 j 18:56 510 Nov 28 j 22:21 511 Jan 06 j 22:57 511 Jan 08 j 02:20 511 Jan 07 j 20:56 511 Feb 17 j 07:45 511 Apr 26 j 23:56 511 Jun 21 j 14:29	0° ル 0° 型 20° 型40'21 0° 肌 1° 肌04'11 0° 肌57'46 28° 肌45'08 28° 肌42'42 0° ズ 0° 云 14° 云23'05 0° ※ 5° ※01'52 0° 光 0° リ 15° 肌00'25 0° ジ 29° ジ33'23 20° ジ11'33 19° ジ44'06 19° ジ49'30 10° ジ05'12 0° ル	-0°23'39 0°23'38 1.2m 0.67057 AU 4°21'51	minimum elong max. Earth dist. asc. node morning rise retrograde opposition greatest brilliancy min. Earth dist. direct desc. node	514 Apr 02 j 17:22 514 Apr 24 j 14:10 514 May 15 j 20:45 514 May 16 j 03:20 514 Jun 01 j 15:24 514 Jun 06 j 14:01 514 Jul 21 j 20:26 514 Sep 07 j 13:33 514 Oct 28 j 20:36 514 Dec 30 j 19:47 515 Feb 09 j 23:42 515 Mar 19 j 13:00 515 Mar 20 j 06:53 515 Mar 20 j 06:53 515 Mar 26 j 00:09 515 Apr 29 j 09:01 515 Jun 03 j 19:08 515 Jun 10 j 17:54 515 Sep 18 j 10:49 515 Oct 28 j 14:12 515 Dec 06 j 07:36 516 Jan 14 j 01:02 516 Feb 22 j 18:43 516 Mar 31 j 00:35 516 Apr 02 j 02:10	14°Y07'55 0°8 15°802'25 15°813'54 26°837'44 0°用 0°5 0°1 0°5 0°5 0°5 0°5 0°5 0°18'14 27°19'40 0°5 0°18'14 27°19'40 0°5 0°18'14 27°19'40 0°18'14 27°19'40 0°18'14 27°19'40 0°18'14 27°19'40	0°26'50 2.49601 AU 3°03'47 -1.6m
desc. node max. Earth dist. conjunction minimum elong morning rise greatest brilliancy asc. node retrograde min. Earth dist. opposition greatest brilliancy direct	509 May 24 j 09:34 509 Jul 12 j 22:25 509 Aug 28 j 02:12 509 Sep 27 j 05:49 509 Oct 10 j 10:46 509 Oct 11 j 22:47 509 Oct 11 j 19:11 509 Nov 18 j 19:53 509 Nov 18 j 18:35 509 Nov 20 j 11:56 509 Dec 29 j 20:30 510 Jan 17 j 08:21 510 Feb 06 j 06:48 510 Feb 12 j 16:43 510 Mar 16 j 15:04 510 Apr 24 j 18:48 510 Jun 04 j 16:55 510 Jul 18 j 13:17 510 Aug 11 j 05:02 510 Sep 05 j 18:56 510 Nov 28 j 22:21 511 Jan 06 j 22:57 511 Jan 08 j 02:20 511 Jan 07 j 20:56 511 Jun 21 j 14:29 511 Aug 08 j 11:03	0° \(\alpha\) 0° \(\mathbb{D}\) 0° \(\mathbb{D}\) 0° \(\mathbb{D}\) 20° \(\mathbb{D}\) 40′21 0° \(\mathbb{M}\) 1° \(\mathbb{M}\) 28° \(\mathbb{M}\) 28° \(\mathbb{M}\) 28° \(\mathbb{M}\) 28° \(\mathbb{M}\) 42′42 0° \(\mathbb{Z}\) 0° \(\mathbb{D}\) 14° \(\mathbb{D}\) 23′05 0° \(\times\) 5° \(\times\) 0° \(\mathbb{M}\) 0° \(\mathbb{D}\) 15° \(\mathbb{M}\) 0° \(\mathbb{D}\) 29° \(\mathbb{D}\) 31° \(\mathbb{D}\) 29° \(\mathbb{D}\) 31° \(\mathbb{D}\) 10° \(\mathbb{D}\) 10° \(\mathbb{D}\) 10° \(\mathbb{D}\) 0° \(\mathbb{D}\)	-0°23'39 0°23'38 1.2m 0.67057 AU 4°21'51	minimum elong max. Earth dist. asc. node morning rise retrograde opposition greatest brilliancy min. Earth dist. direct desc. node evening set asc. node	514 Apr 02 j 17:22 514 Apr 24 j 14:10 514 May 15 j 20:45 514 May 16 j 03:20 514 Jun 01 j 15:24 514 Jun 06 j 14:01 514 Jul 21 j 20:26 514 Sep 07 j 13:33 514 Oct 28 j 20:36 514 Dec 30 j 19:47 515 Feb 09 j 23:42 515 Mar 19 j 13:00 515 Mar 20 j 06:53 515 Mar 26 j 00:09 515 Apr 29 j 09:01 515 Jun 03 j 19:08 515 Jun 10 j 17:54 515 Sep 18 j 10:49 515 Oct 28 j 14:12 515 Dec 06 j 07:36 516 Jan 14 j 01:02 516 Feb 22 j 18:43 516 Apr 02 j 02:10 516 Apr 04 j 05:06 516 May 17 j 15:17	14°Y07'55 0°႘ 15°႘02'25 15°႘13'54 26°႘37'44 0°Ⅲ 0°Ϣ 0°№ 0°№ 8°№23'51 0°№05'30 30°៧ 29°№48'36 27°№38'54 20°№18'14 27°№19'40 0°№ 0°% 0°% 0°% 0°% 0°% 0°% 0°% 0°% 0°% 0°%	0°26'50 2.49601 AU 3°03'47 -1.6m 0.59581 AU
desc. node max. Earth dist. conjunction minimum elong morning rise greatest brilliancy asc. node retrograde min. Earth dist. opposition greatest brilliancy	509 May 24 j 09:34 509 Jul 12 j 22:25 509 Aug 28 j 02:12 509 Sep 27 j 05:49 509 Oct 10 j 10:46 509 Oct 11 j 22:47 509 Oct 11 j 19:11 509 Nov 18 j 19:53 509 Nov 20 j 11:56 509 Dec 29 j 20:30 510 Jan 17 j 08:21 510 Feb 06 j 06:48 510 Feb 12 j 16:43 510 Mar 16 j 15:04 510 Apr 24 j 18:48 510 Jun 04 j 16:55 510 Jul 18 j 13:17 510 Aug 11 j 05:02 510 Sep 05 j 18:56 510 Nov 28 j 22:21 511 Jan 06 j 22:57 511 Jan 08 j 02:20 511 Jan 07 j 20:56 511 Feb 17 j 07:45 511 Apr 26 j 23:56 511 Jun 21 j 14:29 511 Aug 08 j 11:03 511 Aug 29 j 21:07	0° ቢ 0° ጥ 0° • • • • • • • • • • • • • • • • • • •	-0°23'39 0°23'38 1.2m 0.67057 AU 4°21'51	minimum elong max. Earth dist. asc. node morning rise retrograde opposition greatest brilliancy min. Earth dist. direct desc. node evening set asc. node	514 Apr 02 j 17:22 514 Apr 24 j 14:10 514 May 15 j 20:45 514 May 16 j 03:20 514 Jun 01 j 15:24 514 Jun 06 j 14:01 514 Jul 21 j 20:26 514 Sep 07 j 13:33 514 Oct 28 j 20:36 514 Dec 30 j 19:47 515 Feb 09 j 23:42 515 Mar 19 j 13:00 515 Mar 20 j 06:53 515 Mar 26 j 00:09 515 Apr 29 j 09:01 515 Jun 03 j 19:08 515 Jun 10 j 17:54 515 Sep 18 j 10:49 515 Oct 28 j 14:12 515 Dec 06 j 07:36 516 Jan 14 j 01:02 516 Feb 22 j 18:43 516 Apr 02 j 02:10 516 Apr 04 j 05:06 516 May 25 j 09:13	14°Y07'55 0°႘ 15°႘02'25 15°႘13'54 26°႘37'44 0°Ⅲ 0°ಽ 0°杞 0°Φ 8°Φ23'51 0°Φ05'30 30°៧៧ 29°№48'36 27°№38'54 20°№18'14 27°№19'40 0°료 0°№ 0°⊀ 0°% 0°% 0°% 0°% 0°% 10°% 15°¶12'49	0°26'50 2.49601 AU 3°03'47 -1.6m 0.59581 AU
desc. node max. Earth dist. conjunction minimum elong morning rise greatest brilliancy asc. node retrograde min. Earth dist. opposition greatest brilliancy direct	509 May 24 j 09:34 509 Jul 12 j 22:25 509 Aug 28 j 02:12 509 Sep 27 j 05:49 509 Oct 10 j 10:46 509 Oct 11 j 22:47 509 Oct 11 j 19:11 509 Nov 18 j 19:53 509 Nov 18 j 18:35 509 Nov 20 j 11:56 509 Dec 29 j 20:30 510 Jan 17 j 08:21 510 Feb 06 j 06:48 510 Feb 12 j 16:43 510 Mar 16 j 15:04 510 Apr 24 j 18:48 510 Jun 04 j 16:55 510 Jul 18 j 13:17 510 Aug 11 j 05:02 510 Sep 05 j 18:56 510 Nov 28 j 22:21 511 Jan 06 j 22:57 511 Jan 08 j 02:20 511 Jan 07 j 20:56 511 Jun 21 j 14:29 511 Aug 08 j 11:03	0° \(\alpha\) 0° \(\mathbb{D}\) 0° \(\mathbb{D}\) 0° \(\mathbb{D}\) 20° \(\mathbb{D}\) 40′21 0° \(\mathbb{M}\) 1° \(\mathbb{M}\) 28° \(\mathbb{M}\) 28° \(\mathbb{M}\) 28° \(\mathbb{M}\) 28° \(\mathbb{M}\) 42′42 0° \(\mathbb{Z}\) 0° \(\mathbb{D}\) 14° \(\mathbb{D}\) 23′05 0° \(\times\) 5° \(\times\) 0° \(\mathbb{M}\) 0° \(\mathbb{D}\) 15° \(\mathbb{M}\) 0° \(\mathbb{D}\) 29° \(\mathbb{D}\) 31° \(\mathbb{D}\) 29° \(\mathbb{D}\) 31° \(\mathbb{D}\) 10° \(\mathbb{D}\) 10° \(\mathbb{D}\) 10° \(\mathbb{D}\) 0° \(\mathbb{D}\)	-0°23'39 0°23'38 1.2m 0.67057 AU 4°21'51	minimum elong max. Earth dist. asc. node morning rise retrograde opposition greatest brilliancy min. Earth dist. direct desc. node evening set asc. node	514 Apr 02 j 17:22 514 Apr 24 j 14:10 514 May 15 j 20:45 514 May 16 j 03:20 514 Jun 01 j 15:24 514 Jun 06 j 14:01 514 Jul 21 j 20:26 514 Sep 07 j 13:33 514 Oct 28 j 20:36 514 Dec 30 j 19:47 515 Feb 09 j 23:42 515 Mar 19 j 13:00 515 Mar 20 j 06:53 515 Mar 26 j 00:09 515 Apr 29 j 09:01 515 Jun 03 j 19:08 515 Jun 10 j 17:54 515 Sep 18 j 10:49 515 Oct 28 j 14:12 515 Dec 06 j 07:36 516 Jan 14 j 01:02 516 Feb 22 j 18:43 516 Apr 02 j 02:10 516 Apr 04 j 05:06 516 May 17 j 15:17	14°Y07'55 0°8 15°802'25 15°813'54 26°837'44 0° II 0° © 0°	0°26'50 2.49601 AU 3°03'47 -1.6m 0.59581 AU

	516 Jul 01 j 23:03	0 \circ \odot		asc. node	521 Nov 22 j 22:22	4° Ƴ 17'00	
morning rise	516 Jul 14 j 17:18	8° © 15'21			522 Jan 21 j 21:36	9° 8	
	516 Aug 17 j 20:02	0 $^{\circ}\Omega$			522 Mar 15 j 19:28	Π $^{\circ}0$	
	516 Oct 05 j 00:36	0° m p			522 May 04 j 19:21	0 \circ \odot	
	516 Nov 24 j 00:46	0∘ 亚			522 Jun 22 j 12:47	$0^{\circ}\Omega$	
	517 Jan 17 j 23:54	0° M .		evening set	522 Aug 02 j 16:06	25° Ω 59'20	
retrograde	517 Apr 01 j 15:40	22°M43'42		•	522 Aug 08 j 21:54	0° mp	
desc. node	517 Apr 20 j 17:30	20°M26'57		max. Earth dist.	522 Aug 28 j 03:29	12° m/29'10	2.62150 AU
opposition	517 May 05 j 13:54	16°ML04'12	-0°48'16			•	
greatest brilliancy	517 May 05 j 20:01	15°M59'03	-2.3m	conjunction	522 Sep 17 j 18:30	26° Mp 06'53	0°46'13
min. Earth dist.	517 May 13 j 23:47	13°ML15'07	0.47272 AU	minimum elong	522 Sep 17 j 19:36 522 Sep 17 j 19:44	26° My 08'58	0°46'12
direct	517 Jun 11 j 19:40	7°M54'39	0.47272710	minimum ciong	522 Sep 17 j 13:44 522 Sep 23 j 13:56	0° ರ	0 40 12
direct	517 Juli 11 j 19:40 517 Aug 15 j 10:01	0° ∡ 7		morning rise	522 Nov 03 j 10:41	0 = 27° £ 57'56	
				morning rise			
	517 Sep 30 j 16:36	ව°0 • • • • • • • • • • • • • • • • • • •			522 Nov 06 j 08:29	0°M	
	517 Nov 11 j 00:48	0° ≈		desc. node	522 Dec 11 j 15:37	25°M08'43	
	517 Dec 21 j 11:51	0° ∀			522 Dec 18 j 08:03	0° ∡	
	518 Jan 31 j 15:18	0° Υ			523 Jan 27 j 20:38	0°ರ	
asc. node	518 Feb 18 j 01:43	12° Y 24'57			523 Mar 08 j 11:04	0° ≈	
	518 Mar 15 j 06:09	$_{0\circ}$ 8			523 Apr 16 j 22:30	0° ℋ	
	518 Apr 28 j 14:39	Π $^{\circ}0$			523 May 27 j 11:41	0 ° $\mathbf{\Upsilon}$	
evening set	518 May 18 j 07:41	12° Ⅱ 59'30			523 Jul 10 j 08:23	9° 8	
	518 Jun 13 j 11:48	0ං ම			523 Sep 04 j 09:23	$\Pi^{\circ}0$	
				retrograde	523 Oct 10 j 10:02	7° Ⅱ 45'19	
conjunction	518 Jul 06 j 03:25	14°533'22	1°03'22	asc. node	523 Oct 10 j 22:28	7° Ⅱ 45'12	
minimum elong	518 Jul 06 j 02:28	14°931'50	1°03'22	min. Earth dist.	523 Nov 12 j 04:21	0°Ⅱ30′33	0.56994 AU
max. Earth dist.	518 Jul 12 j 08:59	18°932'26	2.66556 AU		523 Nov 13 j 11:56	30° ₹ 8	
Titali. Darui dibi.	518 Jul 30 j 08:10	0° Ω	2.00000110	opposition	523 Nov 18 j 12:24	28° 8 01'57	1°43'02
morning rise	518 Aug 20 j 20:44	13° Ω 41'27		greatest brilliancy	523 Nov 18 j 01:54	28° 8 12'15	-1.8m
morning risc	518 Sep 15 j 12:30	0° Mp		direct	523 Nov 18 j 01:54 523 Dec 24 j 22:57	19° 8 43'37	-1.0111
		0∘ ⊽ مار		uncci		0° Ⅱ	
	518 Nov 01 j 15:02				524 Feb 08 j 12:18	0°©	
	518 Dec 18 j 17:07	0° M 0°. ₹			524 Apr 10 j 10:27		
	519 Feb 04 j 10:45	0° ∡ ¹			524 Jun 01 j 14:18	$\Omega^{\circ}\Omega$	
desc. node	519 Mar 08 j 17:40	19° ∡ 32'09			524 Jul 20 j 05:27	0° m)	
	519 Mar 26 j 23:59	0° ਰ			524 Sep 04 j 03:03	0∘ ⊽	
retrograde	519 Jun 16 j 02:46	29° る 03'18		evening set	524 Sep 10 j 02:54	4° ≏ 02'48	
opposition	519 Jul 16 j 07:59	24° る 04'56		max. Earth dist.	524 Sep 26 j 02:28	14° £ 59'19	2.52320 AU
greatest brilliancy	519 Jul 16 j 13:33	24° る 01'14	-2.9m		524 Oct 17 j 12:28	0° M	
min. Earth dist.	519 Jul 17 j 06:42	23° ප් 49'51	0.37514 AU	desc. node	524 Oct 28 j 14:24	7°M55'24	
direct	519 Aug 15 j 11:16	19° ට 01'47					
	519 Sep 27 j 23:32	0° ≈		conjunction	524 Oct 29 j 20:44	8° M 49'59	-0°00'49
	519 Nov 20 j 21:27	0° ∀		minimum elong	524 Oct 29 j 20:44	8° M 49'59	0°00'48
asc. node	520 Jan 05 j 23:38	29°) 41'31		behind sun begin	524 Oct 28 j 23:01	8°MJ10'54	
	520 Jan 06 j 10:55	$0^{\circ}\mathbf{\Upsilon}$		behind sun end	524 Oct 30 j 18:27	9° M 29'07	
	520 Feb 21 j 05:58	0°8			524 Nov 27 j 17:54	0° ∡ ¹	
	520 Apr 07 j 15:10	0°II		morning rise	524 Dec 23 j 03:36	19° ∡ *08'19	
	520 May 24 j 17:50	0ංම		3	525 Jan 06 j 08:05	0°ප	
evening set	520 Jun 26 j 07:08	20°536'11			525 Feb 13 j 23:40	0° ≈	
evening sec	520 Jul 11 j 03:03	0° Ω			525 Mar 24 j 12:23	0°) €	
max. Earth dist.	520 Aug 03 j 12:40		2.67045 AU		525 May 02 j 20:20	0° Υ	
max. Lartii dist.	320 Aug 03 j 12.40	14 8633 00	2.07043 AO			0°8	
aaniumatiam	520 Apr 11:07:01	19° Ω 50'42	1000104		525 Jun 13 j 01:34	0°U	
conjunction	520 Aug 11 j 07:01			,	525 Jul 27 j 18:53		
minimum elong	520 Aug 11 j 07:27	19° Ω 51'25	1°08'04	asc. node	525 Aug 27 j 21:43	18° Ⅱ 36'03	
	520 Aug 27 j 02:40	0° m)			525 Sep 18 j 19:38	0ංම	
morning rise	520 Sep 24 j 19:26	18° m) 37'16		retrograde	525 Nov 15 j 12:17	16°©20'32	
	520 Oct 12 j 02:58	0∘ ⊽		min. Earth dist.	525 Dec 22 j 23:43	7° © 28'32	0.65439 AU
	520 Nov 25 j 21:33	0° M ₊		opposition	525 Dec 25 j 15:18	6° 5 24'43	3°57'32
	521 Jan 08 j 10:56	0° ∡ ¹		greatest brilliancy	525 Dec 25 j 05:14	6° © 34'50	-1.4m
desc. node	521 Jan 23 j 17:07	10° ∡ ′41′17			526 Jan 12 j 16:18	30° ₹Ⅱ	
	521 Feb 20 j 00:26	0° ප		direct	526 Feb 03 j 00:58	27° Ⅱ 01′59	
	521 Apr 03 j 03:07	0° ≈			526 Feb 26 j 07:12	0ංම	
	521 May 16 j 04:42	0° \			526 May 08 j 19:19	$0^{\circ}\Omega$	
	521 Jul 04 j 08:48	$0^{\circ}\Upsilon$			526 Jun 30 j 00:46	0° m)	
retrograde	521 Aug 24 j 10:32	15° Y 20'44			526 Aug 16 j 00:37	0∘ <mark>ಹ</mark>	
min. Earth dist.	521 Sep 20 j 21:55		0.44258 AU	desc. node	526 Sep 15 j 13:22	20° ≏ 49'18	
opposition	521 Sep 28 j 23:37	7° Υ 30'25			526 Sep 28 j 13:32	0°ML	
greatest brilliancy	521 Sep 28 j 23:37	7° Υ 46'55		evening set	526 Oct 27 j 20:56	21°ML18'54	
greatest orillativy	221 DCP 20 J 04.0/	1 14033	2.3111	evening set	320 Oct 2/ J 20.30	21 11610 34	
direct	521 Oct 30 j 23:45	1° Ƴ 08'18			526 Nov 08 j 12:05	0° ∡ ¹	

max. Earth dist.	526 Nov 20 j 07:03	8° ₹ 55'20	2.39706 AU		531 Dec 05 j 11:13	0∘ ত	
	526 Dec 17 j 15:26	8°0			532 Feb 12 j 09:51	0°M	
	•			retrograde	532 Mar 10 j 06:04	3°M52'33	
conjunction	526 Dec 25 j 23:20	6° ට 30'14	-0°55'52	Č	532 Apr 04 j 04:30	30° Ŗ Ω	
minimum elong	526 Dec 25 j 20:57	6°₹25'35		opposition	532 Apr 14 j 19:29	26° £ 27'48	1°06'01
minimum ciong	527 Jan 24 j 20:17	0°≈	0 33 31	greatest brilliancy	532 Apr 15 j 04:41	26° ⊆ 19'34	-2.0m
morning rise	527 Mar 04 j 05:25	0° ∺ 09'53		min. Earth dist.	532 Apr 13 j 04.41 532 Apr 22 j 22:32	23° △ 33'23	0.52512 AU
morning risc	527 Mar 04 j 05:25	0° X (0933		desc. node	532 Apr 22 j 22:32 532 May 07 j 10:46	23 ⊆ 33 23 19° ⊆ 16'42	0.32312 AO
	527 Apr 12 j 00:46	0° Υ		direct		19 ⊆ 1042 17° ⊆ 24'03	
				direct	532 May 23 j 23:33		
	527 May 22 j 17:21	0° B			532 Jul 10 j 12:50	0°M₊	
	527 Jul 04 j 21:08	0°II			532 Aug 30 j 22:42	0° ∡	
asc. node	527 Jul 15 j 20:09	7° Ⅱ 17'20			532 Oct 12 j 04:52	0° ට	
	527 Aug 20 j 14:13	0°€			532 Nov 20 j 23:47	0° ≈	
	527 Oct 13 j 10:37	0 \circ Ω			532 Dec 30 j 11:37	0° ∀	
retrograde	527 Dec 19 j 23:58	20° Ω 07'33			533 Feb 08 j 21:19	0° Y	
opposition	528 Jan 28 j 20:44	10° Ω 36′01		asc. node	533 Mar 06 j 16:36	18° Ƴ 34'37	
greatest brilliancy	528 Jan 29 j 00:20	10° Ω 32'26	-1.3m		533 Mar 22 j 21:46	9° 8	
min. Earth dist.	528 Jan 30 j 02:11	10° Ω 06'44	0.67555 AU	evening set	533 Apr 30 j 22:49	26° 8 44'36	
direct	528 Mar 09 j 22:27	0° Ω 40′24			533 May 05 j 19:19	Π $^{\circ}0$	
	528 Jun 04 j 08:33	0° m)					
	528 Jul 25 j 01:05	0∘ ⊽		conjunction	533 Jun 20 j 19:11	0° © 15'47	0°54'13
desc. node	528 Aug 02 j 11:58	5° ≏ 27'34		minimum elong	533 Jun 20 j 17:50	0°ഇ13'35	0°54'12
	528 Sep 07 j 15:15	0°M		-	533 Jun 20 j 09:27	0ංම	
	528 Oct 18 j 18:59	0° ∡ ¹		max. Earth dist.	533 Jul 03 j 01:08	8°910'24	2.64889 AU
	528 Nov 26 j 20:43	0°ಕ		morning rise	533 Aug 06 j 20:21	0° Ω 25'36	
evening set	528 Dec 29 j 23:38	26° පි 04'06		. 8	533 Aug 06 j 04:15	$0^{\circ}\Omega$	
e vennig set	529 Jan 03 j 23:00	0°≈			533 Sep 22 j 14:53	0° m)	
	529 Feb 11 j 02:16	0°) €			533 Nov 09 j 12:25	0∘ ಹ ಂ.ಗ	
	327100 11 1 02.10	٥ ٨			533 Dec 28 j 09:40	0° m ₊	
aamiumatiam	520 Mar 07 : 12:00	18° ¥ 51'42	0940125		·	0° ⊼ ¹	
conjunction	529 Mar 07 j 12:00			dd.	534 Feb 18 j 12:17		
minimum elong	529 Mar 07 j 15:02	18° ¥ 57′29 0° Ƴ	0-49-34	desc. node	534 Mar 25 j 09:18	17°×707'38	
To de the	529 Mar 22 j 04:04		2 44250 411	retrograde	534 May 14 j 21:36	29° х 44'37	40.4.412.0
max. Earth dist.	529 Apr 26 j 16:01		2.44259 AU	opposition	534 Jun 14 j 21:18	24° ₹ 23'53	
	529 May 01 j 21:50	0°8		greatest brilliancy	534 Jun 15 j 19:16	24° ₹ 08'10	-2.7m
morning rise	529 May 11 j 14:03	6° 8 54'26		min. Earth dist.	534 Jun 20 j 16:53	22° ∡ 744'17 −	0.39936 AU
asc. node	529 Jun 01 j 19:42	21° 8 46'34		direct	534 Jul 17 j 17:09	18° ∡ 17'54	
	529 Jun 13 j 19:41	Π $^{\circ}0$			534 Aug 31 j 00:23	0° ප	
	529 Jul 29 j 05:12	0 \circ \odot			534 Oct 21 j 11:50	0° ≈	
	529 Sep 15 j 15:56	$0 {\circ} \Omega$			534 Dec 04 j 14:47	0° ℋ	
	529 Nov 08 j 19:19	0° m)			535 Jan 16 j 21:48	0 ° $\mathbf{\gamma}$	
retrograde	530 Jan 24 j 19:05	24° m 10'07		asc. node	535 Jan 22 j 16:09	3° Ƴ 58'05	
opposition	530 Mar 04 j 06:20	15° m 25'31	3°49'15		535 Mar 01 j 23:24	9° 8	
greatest brilliancy	530 Mar 04 j 22:50	15° ™ 09'35	-1.5m		535 Apr 16 j 07:55	Π $^{\circ}0$	
min. Earth dist.	530 Mar 09 j 08:06	13° m 27'58	0.63077 AU		535 Jun 01 j 20:02	0 \circ \odot	
direct	530 Apr 14 j 13:14	5° Mp 26'37		evening set	535 Jun 12 j 08:21	6°9542'44	
desc. node	530 Jun 20 j 11:29	26° Mp 04'12			535 Jul 18 j 22:29	$0 ^{\circ} \Omega$	
	530 Jun 27 j 22:15	0∘ ত		max. Earth dist.	535 Jul 26 j 12:40	4° Ω 49'48	2.67498 AU
	530 Aug 15 j 23:54	0° M .					
	530 Sep 27 j 11:55	0° ∡ ¹		conjunction	535 Jul 29 j 02:05	6° Ω 27'33	1°09'26
	530 Nov 06 j 02:04	0°ರ		minimum elong	535 Jul 29 j 01:59	6° Ω 27'23	1°09'26
	530 Dec 14 j 11:37	0° ≈		Ü	535 Sep 03 j 22:20	0° m	
	531 Jan 21 j 22:22	0° ∀		morning rise	535 Sep 11 j 16:53	4° m 59'52	
	531 Mar 02 j 09:22	$0^{\circ}\Upsilon$		morning 115¢	535 Oct 20 j 06:12	0∘ ಹ	
evening set	531 Mar 09 j 06:02	5° Υ 05'58			535 Dec 04 j 16:59	0° M ₊	
evening set	531 Apr 12 j 13:01	0° 8			536 Jan 18 j 08:39	0°×7	
asa nada	531 Apr 19 j 18:14	5° 8 06'53		desc. node	536 Feb 10 j 08:51	15° ∡ 136′05	
asc. node	331 Apr 19 J 16.14	3 00033		desc. node	-		
aomium -+:	521 Me 07 : 10 26	170	0010150		536 Mar 02 j 13:42	0°る 0°≈	
conjunction	531 May 07 j 10:26	17° 8 28'00			536 Apr 16 j 07:49		
minimum elong	531 May 07 j 09:49	17° 8 26'56	0°10'49	, ,	536 Jun 04 j 15:25	0° \ 100 \ 07!22	
behind sun begin	531 May 06 j 16:31	16° 8 57'00		retrograde	536 Jul 31 j 14:28	18°) €07'23	0.000=1
behind sun end	531 May 08 j 03:07	17° 8 56'49		min. Earth dist.	536 Aug 27 j 06:28		0.39871 AU
	531 May 25 j 17:39	0°II		opposition	536 Sep 02 j 13:35	11°) 42′17	
max. Earth dist.	531 Jun 06 j 14:54	8° Ⅱ 00′50	2.56873 AU	greatest brilliancy	536 Sep 01 j 12:45	12° ∺ 01'01	-2.8m
morning rise	531 Jun 29 j 19:57	23° Ⅱ 23'38		direct	536 Oct 02 j 21:26	6° ∺ 15′06	
	531 Jul 09 j 22:52	0 \circ		asc. node	536 Dec 09 j 15:32	28° ∺ 02'19	
	531 Aug 26 j 00:15	0 $^{\circ}$ Ω			536 Dec 13 j 09:49	$0^{\circ}\mathbf{\Upsilon}$	
	531 Oct 13 j 23:56	O° mp			537 Feb 03 j 20:02	0°8	

	537 Mar 24 j 23:55	$\Pi^{\circ}0$		morning rise	542 Feb 02 j 06:26	0° ≈ 40'56	
	537 May 12 j 12:15	0ංම			542 Mar 11 j 16:00	0° ∀	
	537 Jun 29 j 13:51	$0^{\circ}\Omega$			542 Apr 19 j 17:54	0 \circ Υ	
evening set	537 Jul 19 j 03:33	12° Ω 21′29			542 May 30 j 12:38	8°	
	537 Aug 15 j 17:44	0° m			542 Jul 13 j 00:12	$\Pi^{\circ}0$	
max. Earth dist.	537 Aug 18 j 07:30	1° m 39'41	2.64697 AU	asc. node	542 Aug 01 j 12:53	12° Ⅱ 40′19	
		•			542 Aug 29 j 22:57	0ಂತಾ	
conjunction	537 Sep 02 j 20:53	11° m 45'58	0°57'47		542 Oct 30 j 06:08	$0^{\circ}\Omega$	
minimum elong	537 Sep 02 j 21:58	11° mp 47'45		retrograde	542 Dec 06 j 14:09	7° Ω 23'24	
minimum ciong	537 Sep 30 j 11:43	0° <u>Ω</u>	0 37 40	retrograde	543 Jan 09 j 18:17	30°R≌	
morning rise	537 Oct 18 j 05:37	0 = 11° £ 56'10		opposition	543 Jan 15 j 16:21	27°939'30	4°30'07
morning rise		0°M		min. Earth dist.			0.67520 AU
	537 Nov 13 j 13:55				543 Jan 15 j 09:09	27°546'42	
	537 Dec 26 j 01:11	0° ∡ 7		greatest brilliancy	543 Jan 15 j 14:00	27°5641'51	-1.3m
desc. node	537 Dec 28 j 08:06	1° ∡ 38'44		direct	543 Feb 25 j 06:05	17°953'34	
	538 Feb 05 j 04:06	0°る			543 Apr 17 j 03:47	$0^{\circ}\Omega$	
	538 Mar 17 j 10:10	0° ≈			543 Jun 15 j 14:56	0° т р	
	538 Apr 26 j 15:58	0° ∀			543 Aug 03 j 07:31	0∘ ⊽	
	538 Jun 07 j 11:33	γ_0		desc. node	543 Aug 20 j 05:06	11° ≏ 12'59	
	538 Jul 25 j 03:27	0° 8			543 Sep 16 j 08:30	0° M	
retrograde	538 Sep 23 j 21:33	19° 8 54'34			543 Oct 27 j 08:42	0° ∡ ¹	
min. Earth dist.	538 Oct 24 j 12:25	13° 8 27'43	0.52272 AU	evening set	543 Dec 03 j 20:20	28° ⊀ ¹46'24	
asc. node	538 Oct 27 j 14:12	12° 8 18'41			543 Dec 05 j 10:03	0° ට	
opposition	538 Nov 01 j 00:48	10° 8 37'29	0°13'08		544 Jan 12 j 12:20	0° ≈	
greatest brilliancy	538 Oct 31 j 23:11	10° 8 39'01	-2.1m		v		
direct	538 Dec 05 j 22:38	2° 8 57'02		conjunction	544 Feb 07 j 23:23	20° ≈ 52'38	-1°03'31
	539 Feb 25 j 09:55	0°II		minimum elong	544 Feb 08 j 00:50	20°≈55'28	1°03'31
	539 Apr 20 j 22:20	0 . ಅ		mmmum viong	544 Feb 19 j 14:48	0°) €	1 00 01
	539 Jun 10 j 07:37	$0^{\circ}\Omega$		max. Earth dist.	544 Mar 25 j 07:45	26°) 44'51	2.39096 AU
	539 Jul 28 j 07:54	0° m)		max. Lartii dist.	544 Mar 29 j 14:53	20 γ (44 31	2.37070 AC
						13° Υ 55'59	
evening set	539 Aug 26 j 04:47	18° Mp 45′18 0° <u> </u>		morning rise	544 Apr 17 j 06:08		
E 4 E 4	539 Sep 12 j 01:56		2.56700 AII	1	544 May 09 j 06:39	0°8	
max. Earth dist.	539 Sep 14 j 08:12	1° ≏ 31′20	2.56700 AU	asc. node	544 Jun 18 j 10:39	28° 8 08'21	
					544 Jun 21 j 04:20	0° Ⅱ	
conjunction	539 Oct 12 j 23:34	21° ≙ 09'11			544 Aug 05 j 20:34	0ංම	
minimum elong	539 Oct 13 j 00:23	21° ≏ 10'36	0°20'06		544 Sep 24 j 11:47	$0^{\circ}\Omega$	
	539 Oct 25 j 14:04	0°M₊			544 Nov 23 j 15:10	0° m y	
desc. node	539 Nov 15 j 06:22	14°M47'23		retrograde	545 Jan 09 j 21:33	10° Mp 48'06	
morning rise	539 Dec 02 j 09:13	27°MJ17'09		opposition	545 Feb 18 j 01:20	1°Mp42'10	4°17'35
	539 Dec 06 j 01:31	0° ∡ ¹		greatest brilliancy	545 Feb 18 j 13:41	1° m 30'04	-1.4m
	540 Jan 14 j 23:09	0°ರ		min. Earth dist.	545 Feb 21 j 15:18	0° m ∤17'57	0.65626 AU
	540 Feb 22 j 21:53	0° ≈			545 Feb 22 j 09:43	30° ₽ Ω	
	540 Apr 01 j 16:48	0° ∀		direct	545 Mar 31 j 10:53	21° Ω 40′08	
	540 May 11 j 07:30	0° Υ			545 May 10 j 16:12	0° m)	
	540 Jun 22 j 01:25	0°8		desc. node	545 Jul 07 j 03:44	28° m 31'49	
	540 Aug 07 j 10:32	0°II		dese. node	545 Jul 09 j 15:10	0° ರ	
asc. node	540 Sep 13 j 13:34	19° Ⅱ 40'07			545 Aug 25 j 03:10	0° M	
use. Houe	540 Oct 12 j 20:10	0°9			545 Oct 05 j 21:35	0° ⊼ ¹	
retrograde	540 Nov 01 j 17:21	2° 5 26'43			545 Nov 14 j 04:43	°ਤ ਹ`ਤ	
retrograde	·					0°≈	
i E d Ed	540 Nov 20 j 09:48	30°RⅡ 240Ⅲ00142	0.62046.411		545 Dec 22 j 09:48		
min. Earth dist.	540 Dec 07 j 11:39	24° Ⅱ 08'43	0.62846 AU		546 Jan 29 j 15:59	0° ∀	
opposition	540 Dec 11 j 15:04	22° Ⅱ 29'14		evening set	546 Feb 11 j 14:53	10°) €00'58	
greatest brilliancy	540 Dec 11 j 02:07	22° Ⅱ 42'13	-1.5m		546 Mar 09 j 21:47	$0^{\circ}\mathbf{\Upsilon}$	
direct	541 Jan 19 j 00:37	13° Ⅱ 27'11					
	541 Mar 21 j 07:03	0 \circ \odot		conjunction	546 Apr 16 j 01:05	27° Ƴ 17′08	
	541 May 18 j 13:10	$0 {\circ} \Omega$		minimum elong	546 Apr 16 j 01:57	27° Ƴ 18'42	0°12'43
	541 Jul 07 j 21:24	0° ™		behind sun begin	546 Apr 15 j 10:37	26° Y 51′08	
	541 Aug 23 j 07:52	0∘ ত		behind sun end	546 Apr 16 j 17:18	27° Ƴ 46′16	
desc. node	541 Oct 02 j 05:29	27° £ 29′28			546 Apr 19 j 19:54	9° 8	
	541 Oct 05 j 18:13	0° M.		asc. node	546 May 06 j 09:57	11° 8 44'59	
evening set	541 Oct 07 j 18:03	1°M25'19		max. Earth dist.	546 May 24 j 16:36		2.52348 AU
max. Earth dist.	541 Oct 23 j 03:21		2.44581 AU		546 Jun 01 j 20:03	0°II	
	541 Nov 15 j 18:34	0° ∡ 7		morning rise	546 Jun 12 j 11:04	7° Ⅱ 11'10	
	<i>y</i>			<i>Q</i> -	546 Jul 17 j 00:30	0ංම 	
conjunction	541 Dec 01 j 09:42	11° ∡ ⁴48'36	-0°36'39		546 Sep 02 j 09:46	$0^{\circ}\Omega$	
minimum elong	541 Dec 01 j 07:41	11° х 40'30			546 Oct 22 j 14:40	0° m	
	541 Dec 25 j 01:23	0°중	3 20 30		546 Dec 18 j 17:45	0° ت	
	542 Feb 01 j 09:37	0°≈		retrograde	547 Feb 19 j 23:47	0 = 17° £ 29'13	
	574100 01 J 07.3/	· ~		renograuc	JT/100 17 J 23.4/	1/ == 2713	

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opposition	547 Mar 28 j 21:40	9° ഫ 28'00	2°27'53		552 Apr 02 j 09:17	$\Pi^{\circ}0$	
greatest brilliancy	547 Mar 29 j 14:15	9° ≏ 12'33	-1.8m		552 May 19 j 21:43	0 \circ \odot	
min. Earth dist.	547 Apr 05 j 01:06	6° ≏ 48'25	0.57266 AU	evening set	552 Jul 04 j 16:06	28° © 50'35	
	547 May 03 j 19:51	30°R M⊅			552 Jul 06 j 11:59	$0^{\circ}\Omega$	
direct	547 May 08 j 06:31	29° m 51'58		max. Earth dist.	552 Aug 08 j 20:05	21° Ω 12'15	2.66426 AU
	547 May 12 j 18:33	0∘ ⊽					
desc. node	547 May 25 j 02:09	1° ≏ 38'04		conjunction	552 Aug 19 j 10:54	28° Ω 01'06	1°05'26
	547 Jul 28 j 19:01	0°M.		minimum elong	552 Aug 19 j 11:37	28° Ω 02'16	1°05'26
	547 Sep 12 j 06:17	0° ズ 0°る			552 Aug 22 j 12:46	0° Mp	
	547 Oct 22 j 23:02 547 Nov 30 j 23:29	0°≈		morning rise	552 Oct 03 j 03:09 552 Oct 07 j 10:31	27° Mp 08'48 0° <u>₽</u>	
	548 Jan 08 j 21:52	0° ∺			552 Nov 20 j 22:43	0° M	
	548 Feb 17 j 19:50	0° Υ			553 Jan 03 j 01:31	0° ⊼ ¹	
asc. node	548 Mar 23 j 09:51	25° Y ′02'53		desc. node	553 Jan 13 j 23:39	7° ∡ ¹44'20	
	548 Mar 30 j 09:43	0° ႘			553 Feb 14 j 00:32	0°ರ	
evening set	548 Apr 11 j 19:11	8° 8 40'48			553 Mar 27 j 07:05	0°≈	
	548 May 12 j 22:33	\mathfrak{I} 0°			553 May 07 j 22:41	0°) €	
					553 Jun 21 j 17:46	$0^{\circ}\mathbf{\Upsilon}$	
conjunction	548 Jun 04 j 08:51	14° Ⅲ 58'13	0°40'43	retrograde	553 Sep 05 j 06:30	29° Y 08'45	
minimum elong	548 Jun 04 j 07:21	14° Ⅱ 55'45		min. Earth dist.	553 Oct 03 j 17:29	23° Y 34'18	0.47105 AU
max. Earth dist.	548 Jun 23 j 02:13		2.62356 AU	opposition	553 Oct 11 j 21:49	20° Y 40′18	
	548 Jun 27 j 07:16	0ංම		greatest brilliancy	553 Oct 11 j 10:10	20° Y 50'40	-2.4m
morning rise	548 Jul 23 j 08:33	16°5547'49		asc. node	553 Nov 13 j 06:28	13° Υ 48'00	
	548 Aug 13 j 02:20	0° N		direct	553 Nov 14 j 00:51	13° Y 47'46	
	548 Sep 29 j 22:38	0° m)			554 Jan 11 j 04:32	0° Β	
	548 Nov 18 j 00:06	0° ∭ 0° ™			554 Mar 09 j 06:32	0°© 0°∏	
	549 Jan 08 j 22:23 549 Mar 15 j 20:58	0° ⊼ 7			554 Apr 29 j 11:19 554 Jun 17 j 16:57	0° U	
desc. node	549 Apr 11 j 01:18	5° ∡ 102'36			554 Aug 04 j 07:08	0° m	
retrograde	549 Apr 15 j 21:21	5°×111'12		evening set	554 Aug 11 j 01:26	4° mp 21'30	
retrograde	549 May 15 j 16:22	30°RM		max. Earth dist.	554 Sep 03 j 03:28	19° m/26'26	2.60420 AU
opposition	549 May 18 j 20:27	29°ML00'00	-2°08'28		554 Sep 19 j 00:02	0ಂ ರ	
greatest brilliancy	549 May 19 j 11:17	28°M48'08			1 3		
min. Earth dist.	549 May 26 j 22:55	26°M25'29	0.44409 AU	conjunction	554 Sep 26 j 14:19	5° ჲ 07'02	0°37'44
direct	549 Jun 23 j 16:02	21°M30'44		minimum elong	554 Sep 26 j 15:31	5° ≏ 09'03	0°37'44
	549 Jul 30 j 19:48	0° ∡ ¹			554 Nov 01 j 16:31	0° M	
	549 Sep 22 j 02:51	0°ರ		morning rise	554 Nov 13 j 08:02	8°M14'02	
	549 Nov 04 j 03:28	0° ≈		desc. node	554 Dec 01 j 23:17	21°M36'40	
	549 Dec 15 j 10:30	0° ∀			554 Dec 13 j 11:35	0° ∡ ″	
	550 Jan 26 j 03:10	0° Υ			555 Jan 22 j 18:20	0° ට	
asc. node	550 Feb 08 j 08:18	9° Y 19'59			555 Mar 03 j 02:16	0° ≈	
	550 Mar 10 j 03:25	0°B 8°0			555 Apr 11 j 06:09	0° ℋ 0° Ƴ	
evening set	550 Apr 23 j 18:39 550 May 27 j 16:28	0°Ⅱ 22°Ⅱ09'37			555 May 21 j 08:20 555 Jul 03 j 02:36	0° ∀	
evening set	550 Jun 08 j 19:53	0°9			555 Aug 22 j 07:10	0°II	
	330 Jun 00 j 17.33	0 0		asc. node	555 Oct 01 j 05:01	15° Ⅲ 22'17	
conjunction	550 Jul 14 j 15:17	22°955'37	1°06'47	retrograde	555 Oct 19 j 05:23	17° Ⅲ 27'26	
minimum elong	550 Jul 14 j 14:37	22°954'33	1°06'47	min. Earth dist.	555 Nov 22 j 02:35		0.59335 AU
max. Earth dist.	550 Jul 17 j 16:01	24° © 51'31	2.67116 AU	opposition	555 Nov 27 j 16:20	7° Ⅱ 35'54	2°24'12
	550 Jul 25 j 17:41	$0^{\circ}\Omega$		greatest brilliancy	555 Nov 27 j 03:35	7° Ⅱ 48'32	-1.7m
morning rise	550 Aug 28 j 20:04	21° Ω 43′07			555 Dec 22 j 14:35	30° ₹ 8	
	550 Sep 10 j 19:37	O° m y		direct	556 Jan 03 j 20:46	29° 8 00'04	
	550 Oct 27 j 14:22	0∘ ⊽			556 Jan 16 j 19:09	Π $^{\circ}0$	
	550 Dec 12 j 23:52	0° M			556 Apr 03 j 10:31	0ಂತ	
	551 Jan 28 j 07:54	0° ∡			556 May 27 j 04:45	$0^{\circ}\Omega$	
desc. node	551 Feb 27 j 00:27	18° ∡ 759′26			556 Jul 15 j 08:52	0° т р	
	551 Mar 16 j 14:12	6°5			556 Aug 30 j 11:06	0° ⊡	
matua au- J-	551 May 07 j 19:50	0°≈ 17°≈≈10'00		evening set	556 Sep 19 j 16:00	13° Ω 44'31	2 40000 411
retrograde	551 Jul 04 j 02:26	17°≈10'09	0 27516 ATT	max. Earth dist.	556 Oct 04 j 15:21	24° £ 10′00	2.49686 AU
min. Earth dist. opposition	551 Aug 01 j 14:05	12°≈31'01 11°≈57'44	0.37516 AU -6°51'35	desc. node	556 Oct 12 j 21:26 556 Oct 18 j 21:57	0° ጤ 4° ጤ 17'44	
greatest brilliancy	551 Aug 03 j 15:56 551 Aug 03 j 06:53	11°≈37'44 12°≈03'47		uese. Houe	550 Oct 10 J 21.5/	7 IIG1/44	
direct	551 Aug 05 j 06.55 551 Sep 02 j 04:19	7°≈02'35	2.7111	conjunction	556 Nov 09 j 20:37	20°M13'16	-0°13'47
	551 Nov 09 j 11:59	0° ∺		minimum elong	556 Nov 09 j 19:53	20°M11'56	
asc. node	551 Dec 27 j 06:48	28° ₩ 19'14		behind sun begin	556 Nov 09 j 07:34	19° M 49'18	*
	551 Dec 29 j 23:19	0°Υ		behind sun end	556 Nov 10 j 08:13	20°M34'35	
	552 Feb. 15 i 06:07	n∘∺			556 Nov 23 i 01:27	0° ~	

556 Nov 23 j 01:27

0°**∡**

552 Feb 15 j 06:07

 0° 8

	557 Jan 01 j 13:11	0°ರ		direct	562 Apr 22 j 21:40	14° m) 13'52	
morning rise	557 Jan 05 j 21:17	3° る 21'03		desc. node	562 Jun 10 j 18:32	26° Mp 29'47	
	557 Feb 09 j 01:57	0° ≈			562 Jun 18 j 10:01	0∘ 亚	
	557 Mar 19 j 11:37	0° ∀			562 Aug 09 j 14:54	0° M .	
	557 Apr 27 j 16:05	0° Υ			562 Sep 21 j 21:40	0° ∡ ¹	
	557 Jun 07 j 15:18	0°B			562 Oct 31 j 19:23	0°ರ	
	557 Jul 21 j 16:53	0°II			562 Dec 09 j 09:05	0° ≈	
asc. node	557 Aug 18 j 03:44	17° I 05'19			563 Jan 16 j 22:39	0° ₩	
asc. node		0°9			563 Feb 25 j 12:12	0° Υ	
. 1	557 Sep 09 j 23:48			. ,			
retrograde	557 Nov 23 j 06:53	24°527'42	0.66465.411	evening set	563 Mar 22 j 11:27	18° Y 19'37	
min. Earth dist.	557 Dec 31 j 14:41	15°5518'43	0.66465 AU		563 Apr 07 j 18:13	0°8	
opposition	558 Jan 02 j 10:24	14° © 34'49	4°13'22	asc. node	563 Apr 10 j 01:04	1° 8 37'18	
greatest brilliancy	558 Jan 02 j 02:42	14°9542'32	-1.3m				
direct	558 Feb 11 j 07:09	5° © 02'38		conjunction	563 May 18 j 11:23	28° 8 16'24	0°22'55
	558 May 01 j 11:29	$0 ^{\circ} \Omega$		minimum elong	563 May 18 j 10:15	28° 8 14'29	0°22'55
	558 Jun 24 j 12:52	0° m)			563 May 21 j 00:29	$\Pi^{\circ}0$	
	558 Aug 11 j 01:36	0∘ 亚		max. Earth dist.	563 Jun 13 j 08:39	15° Ⅲ 38′07	2.59046 AU
desc. node	558 Sep 05 j 20:36	17° ≏ 25'55			563 Jul 05 j 05:52	0°©	
	558 Sep 23 j 18:59	0° M .		morning rise	563 Jul 09 j 01:42	2° © 29'09	
	558 Nov 03 j 18:25	0° ∡ ¹		, and the second	563 Aug 21 j 03:36	$0^{\circ}\Omega$	
evening set	558 Nov 09 j 09:17	4° ∡ 14'18			563 Oct 08 j 14:38	0° m)	
evening set	558 Dec 12 j 21:19	0° ਰ			563 Nov 28 j 11:13	0∘ ⊽	
Foodb died	·		2.37665 AU		·		
max. Earth dist.	558 Dec 20 j 04:13	3 04133	2.37003 AU		564 Jan 25 j 20:20	0°M	
	550 X 10:04 40	222	1000111	retrograde	564 Mar 22 j 11:42	14°M40'53	000444
conjunction	559 Jan 10 j 04:40	22° る 13'07		opposition	564 Apr 26 j 04:26	7°M39'56	0°04'42
minimum elong	559 Jan 10 j 03:08	22° る 10'05	1°02'43	greatest brilliancy	563 Aug 31 j 00:36	6° Ω 11'46	1.8m
	559 Jan 20 j 01:19	0° ≈		desc. node	564 Apr 27 j 16:46	7° M 08′18	
	559 Feb 27 j 04:26	0°) €		min. Earth dist.	564 May 04 j 13:59	4°M45'32	0.49647 AU
morning rise	559 Mar 21 j 02:55	17° ₩ 00'13			564 May 22 j 18:11	30° ₹ Ω	
	559 Apr 07 j 03:59	0° Y		direct	564 Jun 03 j 08:49	29° ≙ 03'17	
	559 May 17 j 19:03	9° 8			564 Jun 15 j 06:14	0° M .	
	559 Jun 29 j 18:31	$\Pi^{\circ}0$			564 Aug 22 j 08:20	0° ∡ ¹	
asc. node	559 Jul 06 j 03:42	4° Ⅱ 17'24			564 Oct 05 j 10:16	0°ರ	
	559 Aug 14 j 22:41	0°9			564 Nov 14 j 23:33	0° ≈	
	559 Oct 05 j 15:03	$0 {\circ} \Omega$			564 Dec 24 j 22:26	0° ₩	
retrograde	559 Dec 27 j 20:19	27° Ω 54'27			565 Feb 03 j 16:15	0° Υ	
•	560 Feb 05 j 11:58	18° Ω 31'01	4°32'09	asc. node	565 Feb 25 j 00:42	15° Υ 18'22	
opposition	,			asc. node	3		
greatest brilliancy	560 Feb 05 j 18:50	18° Ω 24'12			565 Mar 17 j 23:03	0° B	
min. Earth dist.	560 Feb 07 j 13:24		0.67149 AU		565 May 01 j 01:08	0°II	
direct	560 Mar 17 j 17:51	8° Ω 31'44		evening set	565 May 11 j 00:30	6° Ⅱ 37'38	
	560 May 27 j 12:21	0° m)			565 Jun 15 j 18:04	0 \circ	
	560 Jul 19 j 07:34	0∘ 亚					
desc. node	560 Jul 23 j 19:40	2° ≏ 50'22		conjunction	565 Jun 29 j 16:07	8° 9 58'40	1°00'02
	560 Sep 02 j 11:37	0° M ₊		minimum elong	565 Jun 29 j 14:57	8°956'48	1°00'01
	560 Oct 13 j 20:04	0° ∡ ¹		max. Earth dist.	565 Jul 08 j 13:35	14° 5 641'13	2.65914 AU
	560 Nov 21 j 23:30	ರ°0			565 Aug 01 j 13:08	$0^{\circ}\Omega$	
	560 Dec 30 j 02:28	0° ≈		morning rise	565 Aug 14 j 21:56	8° Ω 30′01	
evening set	561 Jan 14 j 21:08	12° ≈ 27'12		, and the second	565 Sep 17 j 19:45	0° m)	
	561 Feb 06 j 06:09	0° ₩			565 Nov 04 j 05:58	0∘ ⊽	
	561 Mar 17 j 08:37	0° Υ			565 Dec 22 j 00:36	0° M	
	301 Mai 17 J 00.37	0 1			-	0° ⊼	
	561 M 22:15:20	200057152	0027111	1 1	566 Feb 09 j 05:45		
conjunction	561 Mar 22 j 15:20	3° Y 57'53		desc. node	566 Mar 15 j 16:54	19° ∡ ³31'56	
minimum elong	561 Mar 22 j 17:57	4° Y 02'47	0°3′/10		566 Apr 05 j 09:17	0° る	
	561 Apr 27 j 03:01	0° 8		retrograde	566 Jun 01 j 19:41	16° る 10'15	
max. Earth dist.	561 May 08 j 09:31		2.47248 AU	opposition	566 Jul 02 j 04:19	11° る 08'11	
morning rise	561 May 23 j 21:28	18° 8 54'29		greatest brilliancy	566 Jul 02 j 20:13	10° る 57'21	-2.9m
asc. node	561 May 23 j 02:32	18° 8 21'35		min. Earth dist.	566 Jul 05 j 12:26	10°る13'43	0.38239 AU
	561 Jun 09 j 00:24	$\Pi^{\circ}0$		direct	566 Aug 02 j 08:31	5° ರ 43'10	
	561 Jul 24 j 06:25	0° ©			566 Oct 09 j 23:29	0° ≈	
	561 Sep 10 j 04:35	$0^{\circ}\Omega$			566 Nov 26 j 18:06	0° ∀	
	561 Nov 01 j 09:13	0° m/y			567 Jan 10 j 12:56	0° Υ	
	562 Jan 11 j 23:42	0∘ ⊽		asc. node	567 Jan 12 j 22:58	1° Ƴ 37'32	
retrograde	562 Feb 02 j 20:54	ა _ 2° ჲ 38'32			567 Feb 24 j 10:36	0° 8	
. carogrado	562 Feb 23 j 06:19	2 == 38 32 30°R Mp			567 Apr 11 j 07:01	0°II	
onnosition			3024152			0°9	
opposition	562 Mar 12 j 20:16	24° Mp 07'42			567 May 28 j 02:14		
greatest brilliancy	562 Mar 13 j 13:51	23° Mp 50'54		evening set	567 Jun 20 j 23:09	15° © 09'54	
min. Earth dist.	562 Mar 18 j 16:24	21~11 0 53'44	0.61268 AU		567 Jul 14 j 08:10	0 ° Ω	

max. Earth dist.	567 Jul 31 j 18:40	11° Ω 05'30	2.67354 AU		572 Feb 17 j 20:55	0° ≈	
					572 Mar 27 j 11:55	0°) €	
conjunction	567 Aug 06 j 05:32		1°09'06		572 May 05 j 21:40	$0^{\circ}\mathbf{\Upsilon}$	
minimum elong	567 Aug 06 j 05:45	14° Ω 34'23	1°09'06		572 Jun 16 j 06:11	0°8	
	567 Aug 30 j 07:57	O° Mp			572 Jul 31 j 10:33	Π $^{\circ}0$	
morning rise	567 Sep 19 j 17:22	13° m 10'10		asc. node	572 Sep 03 j 21:08	19° ∏ 49'28	
	567 Oct 15 j 12:01	0∘ ⊽			572 Sep 25 j 06:54	0ಂ ತಾ	
	567 Nov 29 j 13:59	0°M		retrograde	572 Nov 09 j 17:24	10° © 57'50	
	568 Jan 12 j 14:32	0° ∡ ″		min. Earth dist.	572 Dec 16 j 10:22	2° © 20'37	0.64393 AU
desc. node	568 Jan 31 j 16:45	13° ∡ 12'00		opposition	572 Dec 19 j 18:13	1° © 00'29	3°43'29
	568 Feb 24 j 19:42	0° ට		greatest brilliancy	572 Dec 19 j 06:30	1°©12'15	-1.4m
	568 Apr 07 j 20:33	0° ≈			572 Dec 22 j 06:45	30°RⅡ	
	568 May 22 j 15:51	0°) €		direct	573 Jan 27 j 17:06	21° Ⅱ 46'35	
	568 Jul 19 j 20:27	0° Υ			573 Mar 09 j 11:02	0° ©	
retrograde	568 Aug 14 j 14:26	4° Υ 27'40			573 May 12 j 07:21	0° N	
: E 4 E 4	568 Sep 09 j 10:04	30° ₹	0.42116.411		573 Jul 02 j 17:13	0° m	
min. Earth dist.	568 Sep 10 j 11:04		0.42116 AU	1 1	573 Aug 18 j 12:37	0° 亞	
greatest brilliancy	568 Sep 17 j 01:42	27°) 33'18 27°) 14'09		desc. node	573 Sep 22 j 12:52	23° Ω 57'43	
opposition	568 Sep 18 j 01:28	21° X 14'09 21° X 17'29	-4*06'08		573 Oct 01 j 01:51	0°M	
direct	568 Oct 19 j 05:25	21° π 1/29 0° Υ		evening set	573 Oct 18 j 20:19	12°M48'02	2 41012 411
1-	568 Nov 28 j 01:30	0° Υ 42'50		max. Earth dist.	573 Nov 06 j 01:05	26° M .13'19 0° ∡ 7	2.41812 AU
asc. node	568 Nov 29 j 21:21				573 Nov 11 j 02:17	0°×'	
	569 Jan 27 j 03:34	0°Β		:	572 D 14 : 20-07	25° ∡ ¹44'45	0949122
	569 Mar 19 j 03:07 569 May 07 j 09:58	0°© 0°∏		conjunction	573 Dec 14 j 20:07 573 Dec 14 j 17:41	25° × '44'45 25° × '40'01	-0°48'23 0°48'22
	, ,			minimum elong	3		0 46 22
avanina aat	569 Jun 24 j 20:21	0°Ω 20°Ω34'41			573 Dec 20 j 07:45	0°る 0°≈	
evening set	569 Jul 27 j 10:40	0° m		mamina rias	574 Jan 27 j 14:15	0°≈ 17°≈34'49	
max. Earth dist.	569 Aug 11 j 03:35 569 Aug 23 j 23:09		2.63397 AU	morning rise	574 Feb 18 j 22:13	17 ≈ 34 49 0° ∺	
max. Earm dist.	309 Aug 23 J 23.09	8 IIJ1/32	2.03397 AU		574 Mar 06 j 18:52	0 Υ 0° Υ	
agniumation	560 San 11; 07:27	20° m 18'48	0051122		574 Apr 14 j 18:56	0° 8	
conjunction minimum elong	569 Sep 11 j 07:27	20° m/20'48			574 May 25 j 11:01 574 Jul 07 j 15:46	0°II	
minimum ciong	569 Sep 11 j 08:40	ე∘ <u>ი</u>	0 31 32	asc. node	574 Jul 22 j 19:09	9° ∏ 59'23	
morning rise	569 Sep 25 j 21:19	0 = 21° ₽ 19'01		asc. node	·	9 H 39 23	
morning rise	569 Oct 27 j 07:14 569 Nov 08 j 20:06	21 2 1901 0° M			574 Aug 23 j 17:07 574 Oct 18 j 12:27	0° U	
desc. node	569 Dec 18 j 15:12	28°M14'32		retrograde	574 Oct 18 j 12.27 574 Dec 14 j 07:20	0 3ℓ 15° Ω 10'42	
desc. node	569 Dec 21 j 01:32	20 11€1432 0° √		opposition	575 Jan 23 j 06:19	5° Ω 33'12	4°34'19
	570 Jan 30 j 20:43	0°る		greatest brilliancy	575 Jan 23 j 07:14	5° Ω 32'18	
	570 Mar 11 j 17:54	0°≈		min. Earth dist.			0.67663 AU
	570 Mar 11 j 17:34 570 Apr 20 j 12:02	0 ∞		iiiii. Eattii tiist.	575 Jan 23 j 19:12 575 Feb 07 j 03:41	30°R≌	0.07003 AU
	570 May 31 j 10:59	0° Υ		direct	575 Mar 05 j 02:39	25°541'30	
	570 Jul 15 j 09:01	0°8		direct	575 Apr 02 j 13:27	0°Ω	
	570 Sep 22 j 19:30	0°II			575 Jun 09 j 03:11	0° m	
retrograde	570 Oct 03 j 13:12	0° П 47'25			575 Jul 28 j 23:15	0° ت	
retrograde	570 Oct 03 j 13:12 570 Oct 13 j 22:16	30°R と		desc. node	575 Aug 10 j 11:31	0 == 8° ⊆ 10'22	
asc. node	570 Oct 13 j 22:10	29° 8 16'42		uese. Houe	575 Sep 11 j 09:08	0°M	
min. Earth dist.	570 Nov 04 j 08:43		0.54946 AU		575 Oct 22 j 12:31	0° ⊼	
opposition	570 Nov 11 j 06:00	23° 8 13'34	1°08'15		575 Nov 30 j 14:47	°ਣ 0°ਣ	
greatest brilliancy	570 Nov 10 j 22:18	21° 8 21'01		evening set	575 Dec 18 j 20:46	14°る19'08	
direct	570 Dec 17 j 00:06	13° 8 11'10	-1.7111	evening set	576 Jan 07 j 17:20	0°≈	
uncet	571 Feb 15 j 20:11	0°II			576 Feb 14 j 19:49	0 ≈ 0° H	
	571 Apr 14 j 20:13	0ංම 0 ස			3/0100 14 117.47	0 /	
	571 Jun 05 j 04:51	$0 {\circ} \Omega$		conjunction	576 Feb 24 j 05:17	7°) 18′54	-0°57'08
	571 Jul 23 j 14:09	0° mp		minimum elong	576 Feb 24 j 08:01	7° ∺ 24'13	
evening set	571 Sep 04 j 03:52	27° Mp 46'52		minimum clong	576 Mar 24 j 19:51	7 χ24 13 0° Υ	3 2101
evening set	571 Sep 07 j 11:17	27 m/ 1 0 32		max. Earth dist.	576 Apr 15 j 06:48	16° Ƴ 00'56	2.41850 AU
max. Earth dist.	571 Sep 21 j 11:41		2.54357 AU	morning rise	576 May 01 j 10:48	27° Υ 49'02	2.41030 AC
max. Durin dist.	571 Oct 20 j 23:02	9 = 2943 0° M	2.0 100 / 110		576 May 04 j 11:26	0° と	
	571 000 20 j 25.02	Ų IIV		asc. node	576 Jun 08 j 18:29	24° 8 50'29	
conjunction	571 Oct 22 j 22:06	1°M23'23	0°08'28	ase. Houe	576 Jun 16 j 07:22	24 O 30 29 0° Ⅱ	
minimum elong	571 Oct 22 j 22:29	1°M24'04	0°08'27		576 Jul 31 j 17:44	0°9	
behind sun begin	571 Oct 22 j 04:05	0°M51'27	0 00 27		576 Sep 18 j 12:50	0° U	
behind sun begin	571 Oct 22 j 04:05 571 Oct 23 j 16:53	1°M56'43			576 Nov 13 j 09:30	0° m)	
desc. node	571 Nov 05 j 13:43	11°M09'26		retrograde	577 Jan 18 j 07:46	18° m y 50'50	
acse. Houc	571 Nov 03 j 13.43 571 Dec 01 j 08:00	0° √		opposition	577 Feb 26 j 02:29	9° Mp 56'09	4°02'41
morning rise	571 Dec 01 j 08:00 571 Dec 14 j 07:02	0 x · 9° x 40′10		greatest brilliancy	577 Feb 26 j 17:19	9°My41'43	-1.4m
morning 1150	572 Jan 10 j 01:58	9 メ ·40 10		min. Earth dist.	577 Mar 02 j 11:59		0.64333 AU
	5/2 Jan 10 J 01.36	υ Ο		mm. Latin uist.	511 Iviai 02 J 11.39	/ 2 1 رابات	0.0 1 333 AU

			8 (-),			r	
	577 Apr 04 j 20:19	30°R Ω		evening set	582 Jun 05 j 18:25	1° © 03'25	
direct	577 Apr 08 j 10:48	29° Ω 54'58		-	582 Jul 21 j 02:50	$0^{\circ}\Omega$	
	577 Apr 12 j 02:25	0° m			•		
desc. node	577 Jun 27 j 10:29	27° m 09'23		conjunction	582 Jul 22 j 23:38	1° Ω 11'16	1°08'49
	577 Jul 02 j 12:31	0∘ ⊽		minimum elong	582 Jul 22 j 23:18	1° Ω 10'44	1°08'48
	577 Aug 19 j 09:41	0°M		max. Earth dist.	582 Jul 22 j 22:53	1° Ω 10′05	2.67439 AU
	577 Sep 30 j 14:42	0° ∡ ¹		morning rise	582 Sep 05 j 18:58	29° Ω 46′12	
	577 Nov 09 j 02:10	0°ಕ			582 Sep 06 j 03:35	0° ™	
	577 Dec 17 j 09:49	0° ≈			582 Oct 22 j 16:23	0∘ ⊽	
	578 Jan 24 j 17:59	0° ∀			582 Dec 07 j 12:41	0° M	
evening set	578 Feb 26 j 10:29	25°) €00'59			583 Jan 21 j 20:26	0° ∡	
	578 Mar 05 j 01:40	$\mathbf{\gamma}_{0}$		desc. node	583 Feb 17 j 07:57	17° ∡ ³34'16	
	578 Apr 15 j 01:40	$0^{\circ}S$			583 Mar 08 j 03:43	0°ප	
asc. node	578 Apr 26 j 17:38	8° 8 16'44			583 Apr 24 j 00:42	0° ≈	
					583 Jun 21 j 19:03	0° ∀	
conjunction	578 Apr 28 j 12:06	9° 8 31'28	0°01'07	retrograde	583 Jul 20 j 17:54	5°) 19′04	
minimum elong	578 Apr 28 j 12:01	9° 8 31'19	0°01'07	min. Earth dist.	583 Aug 16 j 19:47	0° 米 51′05	0.38480 AU
behind sun begin	578 Apr 27 j 12:00	8° 8 49'05			583 Aug 19 j 20:07	30° ₹ ≈	
behind sun end	578 Apr 29 j 12:02	10° 8 13'30		opposition	583 Aug 21 j 12:12	29° ≈ 31′29	
	578 May 28 j 02:47	Π° 0		greatest brilliancy	583 Aug 20 j 15:47	29° ≈ 46′00	-2.9m
max. Earth dist.	578 Jun 01 j 09:39	2° ∏ 54′28	2.54936 AU	direct	583 Sep 20 j 07:39	24°≈23'54	
morning rise	578 Jun 22 j 13:36	17° Ⅲ 04'42			583 Oct 20 j 22:47	0° ∀	
	578 Jul 12 j 06:18	0°©		asc. node	583 Dec 17 j 14:28	27°) 54'48	
	578 Aug 28 j 09:27	$0^{\circ}\Omega$			583 Dec 21 j 05:15	0° Υ	
	578 Oct 16 j 18:57	0° m)			584 Feb 08 j 19:45	0°8	
_	578 Dec 09 j 17:45	0∘ ত			584 Mar 27 j 22:48	0°Щ	
retrograde	579 Mar 02 j 14:36	27° ≏ 01'49			584 May 14 j 23:28	0°©	
opposition	579 Apr 07 j 19:13	19° ≙ 19'36	1°44'05		584 Jul 01 j 19:46	0° Ω	
greatest brilliancy	579 Apr 08 j 08:27	19° ≏ 07'30		evening set	584 Jul 12 j 23:48	7° Ω 03'16	
min. Earth dist.	579 Apr 15 j 12:42	16° ≙ 30'17	0.54722 AU	max. Earth dist.	584 Aug 14 j 06:52	27° Ω 38'49	2.65577 AU
desc. node	579 May 15 j 09:58	10° Ω 01'01			584 Aug 17 j 22:36	0° ™	
direct	579 May 17 j 13:33	9° ≙ 59'07			504 4 27:16:10	60 m 1712 6	1001107
	579 Jul 19 j 09:44	0° M ○○ 3		conjunction	584 Aug 27 j 16:19	6° Mp 17'36	
	579 Sep 05 j 13:01	0° ∡		minimum elong	584 Aug 27 j 17:16	6° m 19'08	1°01'27
	579 Oct 17 j 00:33	5°0			584 Oct 02 j 19:03	0° ⊡	
	579 Nov 25 j 10:19	0° ≈		morning rise	584 Oct 11 j 15:42	5° Ω 54'57	
	580 Jan 03 j 14:59	0° ∀ 0° Υ			584 Nov 16 j 02:17	0°M.	
	580 Feb 12 j 17:59 580 Mar 13 j 15:41	21° Υ 37'00		4 4-	584 Dec 28 j 20:55	0° 🖍 49. ₹3.515.5	
asc. node	•	0° 8		desc. node	585 Jan 04 j 07:18 585 Feb 08 j 08:29	4°♂35'55 0°る	
ovening set	580 Mar 25 j 12:22 580 Apr 22 j 23:00	19° 8 40'59			5	0°≈	
evening set	580 Apr 22 j 25.00 580 May 08 j 04:37	19 G 40 39 0° Ⅱ			585 Mar 21 j 00:26 585 Apr 30 j 18:02	0 ≈ 0°)	
	380 May 08 J 04.37	υд			1 3	0°Υ	
conjunction	580 Jun 13 j 22:07	24° Ⅱ 19'21	0°49'04		585 Jun 12 j 11:04 585 Aug 02 j 18:20	0°8	
minimum elong	580 Jun 13 j 20:40	24° I 1921 24° I 16'59	0°49'03	retrograde	585 Sep 16 j 04:50	11° 8 46'53	
minimum clong	580 Jun 22 j 15:21	0°95	0 4903	min. Earth dist.	585 Oct 15 j 20:04	5° 8 42'53	0.49985 AU
max. Earth dist.	580 Jun 28 j 21:58	0 ع 4°904'09	2.63870 AU	opposition	585 Oct 23 j 17:25	2° 8 48'15	
morning rise	580 Jul 31 j 17:44	25°907'58	2.03870 AU	greatest brilliancy	585 Oct 23 j 17:23 585 Oct 23 j 13:44	2° 8 51'40	
morning risc	580 Aug 08 j 09:23	0° Ω		greatest oriniancy	585 Oct 31 j 16:04	2 3 31 40	-2.2111
	580 Sep 24 j 23:28	0° m		asc. node	585 Nov 03 j 13:20	29° Υ 05'32	
	580 Nov 12 j 07:44	0° ت		direct	585 Nov 26 j 20:44	25° Y $27'52$	
	581 Jan 01 j 06:55	0° M ₊		uncet	585 Dec 25 j 02:14	0°8	
	581 Feb 25 j 20:17	0° × 7			586 Mar 02 j 00:20	0°II	
desc. node	581 Apr 01 j 08:38	13° ∡ *53'15			586 Apr 23 j 21:42	0 . ಹ	
retrograde	581 May 01 j 15:17	18° ≯ 53'25			586 Jun 12 j 18:30	$0 {\circ} \mathcal{U}$	
opposition	581 Jun 02 j 11:20	13° × 11'12	-3°36'20		586 Jul 30 j 14:52	0° mp	
greatest brilliancy	581 Jun 03 j 08:32	12° × 755'15		evening set	586 Aug 19 j 15:35	12° m) 57'14	
min. Earth dist.	581 Jun 09 j 15:33	11° × 02'09	0.41776 AU	max. Earth dist.	586 Sep 09 j 13:08	26° Mp 45'15	2.58457 AU
direct	581 Jul 06 j 17:14	6° × ⁷ 27'17			586 Sep 14 j 09:30	0° <u>م</u>	
	581 Sep 11 j 03:49	0°る			r , 00.00	- —	
	581 Oct 27 j 09:03	0° ≈		conjunction	586 Oct 05 j 19:04	14° ≏ 31'58	0°27'58
	581 Dec 08 j 22:54	0° ∀		minimum elong	586 Oct 05 j 20:05	14° £ 33'43	0°27'58
	582 Jan 20 j 09:16	0° Υ			586 Oct 28 j 00:35	0°M	
asc. node	582 Jan 29 j 14:52	6° Υ 26'41		desc. node	586 Nov 22 j 05:39	18°M00'03	
	582 Mar 04 j 21:23	0°8		morning rise	586 Nov 23 j 20:43	19° M 10'47	
	582 Apr 18 j 20:30	0°II		<i>5</i>	586 Dec 08 j 16:25	0° ⊼	
	582 Jun 04 j 02:53	0°©			587 Jan 17 j 18:35	0°ਤ	
	<i>J</i>				<i>y</i>	-	

	587 Feb 25 j 21:32	0° ≈			592 May 17 j 23:59	0° ™	
	587 Apr 05 j 19:55	0° ∀			592 Jul 13 j 06:02	0∘ ত	
	587 May 15 j 14:01	0° Y		desc. node	592 Jul 14 j 03:18	0° ≏ 32'26	
	587 Jun 26 j 14:59	0° 8			592 Aug 28 j 04:40	0° M	
	587 Aug 13 j 01:15	$\Pi^{\circ}0$			592 Oct 08 j 19:51	0° ∡ 7	
asc. node	587 Sep 21 j 12:26	19° Ⅱ 06'48			592 Nov 17 j 01:48	ರ°ರ	
retrograde	587 Oct 27 j 15:34	26° Ⅲ 37'56		greatest brilliancy	592 Nov 24 j 02:28	5° る 29'13	1.2m
min. Earth dist.	587 Dec 01 j 14:06	18° Ⅲ 36′38	0.61382 AU		592 Dec 25 j 05:55	0° ≈	
opposition	587 Dec 06 j 09:09	16° Ⅱ 41'53	2°58'36	evening set	593 Jan 30 j 16:19	28° ≈ 37'59	
greatest brilliancy	587 Dec 05 j 19:41	16° Ⅱ 55'19	-1.6m		593 Feb 01 j 10:25	0°) €	
direct	588 Jan 13 j 05:55	7° Ⅱ 50'56			593 Mar 12 j 13:33	0 ° $\mathbf{\Upsilon}$	
	588 Mar 26 j 11:36	0° ©					
	588 May 21 j 13:27	$0^{\circ}\Omega$		conjunction	593 Apr 05 j 20:17	18° Ƴ 01'39	-0°23'19
	588 Jul 10 j 09:55	0° m)		minimum elong	593 Apr 05 j 21:57	18° Ƴ 04'42	0°23'18
	588 Aug 25 j 18:03	0∘ 亚			593 Apr 22 j 08:38	9° 8	
evening set	588 Sep 29 j 17:51	24° ₽ 00'06		asc. node	593 May 13 j 08:50	14° 8 53'22	
	588 Oct 08 j 05:33	0° M ,		max. Earth dist.	593 May 18 j 09:29	18° 8 23'44	2.50122 AU
desc. node	588 Oct 09 j 04:27	0°M40'43		morning rise	593 Jun 04 j 08:13	0° Ⅱ 03'50	
max. Earth dist.	588 Oct 14 j 12:44	4° M ₊29'42	2.46882 AU	•	593 Jun 04 j 05:59	Π $^{\circ}0$	
	588 Nov 18 j 08:35	0° ∡ ¹			593 Jul 19 j 09:29	0°ම	
	J				593 Sep 04 j 22:11	$0^{\circ}\Omega$	
conjunction	588 Nov 21 j 17:26	2° ∡ 31'18	-0°27'00		593 Oct 25 j 18:46	0° m)	
minimum elong	588 Nov 21 j 15:57	2° ∡ ¹28'32	0°27'00		593 Dec 25 j 06:30	0∘ ⊽	
	588 Dec 27 j 18:10	0°ರ		retrograde	594 Feb 12 j 09:57	11° ≏ 24'55	
morning rise	589 Jan 20 j 21:43	18° පි 48'00		opposition	594 Mar 21 j 19:36	3° ഫ 09'35	2°54'16
	589 Feb 04 j 04:39	0° ≈		greatest brilliancy	594 Mar 22 j 13:02	2° £ 53'06	-1.7m
	589 Mar 14 j 12:15	0° ∀		min. Earth dist.	594 Mar 28 j 09:09	0° - 40'52	0.59170 AU
	589 Apr 22 j 14:21	0° Υ			594 Mar 30 j 05:28	30°R, Mp	
	589 Jun 02 j 09:29	0° ႘		direct	594 May 01 j 12:33	23° m/24'05	
	589 Jul 16 j 00:10	$\Pi^{\circ}0$		desc. node	594 Jun 01 j 01:21	28° m 45'19	
asc. node	589 Aug 08 j 11:47	15° Ⅱ 02'02			594 Jun 04 j 17:34	0∘ <u>⊽</u>	
	589 Sep 02 j 15:08	0ಂಣ			594 Aug 02 j 13:44	0° M ₊	
	589 Nov 10 j 20:14	$0^{\circ}\Omega$			594 Sep 16 j 00:09	0° ∡ 7	
retrograde	589 Nov 30 j 22:49	2° Ω 22'12			594 Oct 26 j 08:15	0°ರ	
Č	589 Dec 19 j 17:37	30° ₹©			594 Dec 04 j 03:34	0° ≈	
min. Earth dist.	590 Jan 09 j 01:59	22°957'35	0.67175 AU		595 Jan 11 j 21:18	0° ∀	
opposition	590 Jan 10 j 01:46	22° © 33'44	4°24'37		595 Feb 20 j 14:14	0 ° $\mathbf{\Upsilon}$	
greatest brilliancy	590 Jan 09 j 20:54	22° 5 38'37	-1.3m	asc. node	595 Mar 31 j 08:49	28° Y 09'24	
direct	590 Feb 19 j 08:08	12° © 53'34			595 Apr 02 j 23:11	$_{0\circ}$ 8	
	590 Apr 22 j 23:15	$0^{\circ}\Omega$		evening set	595 Apr 03 j 20:56	0° 8 38'30	
	590 Jun 18 j 19:12	0° m)			595 May 16 j 07:35	$\Pi^{\circ}0$	
	590 Aug 06 j 00:48	0∘ ⊽					
desc. node	590 Aug 27 j 04:27	14° ഫ 08'30		conjunction	595 May 28 j 21:33	8° Ⅱ 27'40	0°33'43
	590 Sep 18 j 23:42	0° M		minimum elong	595 May 28 j 20:08	8° Ⅱ 25′18	0°33'42
	590 Oct 30 j 00:39	0° ∡ ¹		max. Earth dist.	595 Jun 19 j 16:38	22° Ⅱ 53'45	2.60967 AU
evening set	590 Nov 22 j 19:56	18° ∡ '07'51			595 Jun 30 j 13:33	0ංම	
	590 Dec 08 j 03:08	ರ∘ರ		morning rise	595 Jul 17 j 22:50	11° © 15'01	
	591 Jan 15 j 06:12	0° ≈			595 Aug 16 j 08:34	$0 ^{\circ} \Omega$	
					595 Oct 03 j 10:04	0° m y	
conjunction	591 Jan 26 j 06:37	8° ≈ 42'17	-1°05'07		595 Nov 22 j 03:05	0∘ ट	
minimum elong	591 Jan 26 j 06:42	8° ≈ 42′25	1°05'06		596 Jan 15 j 01:26	0° M	
	591 Feb 22 j 08:32	0° ∀		retrograde	596 Apr 04 j 16:58	26°M18'03	
max. Earth dist.	591 Feb 22 j 20:30		2.37438 AU	desc. node	596 Apr 18 j 00:32	25°M11'35	
	591 Apr 02 j 07:25	0° Y		opposition	596 May 08 j 12:05	19° M 43'40	-1°07'03
morning rise	591 Apr 06 j 10:39	3° Y 07'18		greatest brilliancy	596 May 08 j 20:26	19°M36'43	-2.3m
	591 May 12 j 21:35	9° 8		min. Earth dist.	596 May 16 j 22:36	16°M55'58	0.46730 AU
	591 Jun 24 j 18:18	Π $^{\circ}0$		direct	596 Jun 14 j 11:30	11°ML41'22	
asc. node	591 Jun 26 j 09:41	1° Ⅱ 06'47			596 Aug 11 j 05:24	0° ∡ ¹	
	591 Aug 09 j 13:10	0ංම			596 Sep 27 j 19:42	5°0	
	591 Sep 28 j 19:07	0 $^{\circ}$ Ω			596 Nov 08 j 12:19	0° ≈	
	591 Dec 02 j 20:57	0° ™			596 Dec 19 j 02:31	0° ∀	
retrograde	592 Jan 04 j 20:26	5° m 43'07			597 Jan 29 j 06:54	$0^{\circ}\Upsilon$	
	592 Feb 03 j 23:00	30° R Ω		asc. node	597 Feb 15 j 07:28	12° Ƴ 07′28	
opposition	592 Feb 13 j 05:31	26° Ω 28'53			597 Mar 12 j 21:37	9° 8	
greatest brilliancy	592 Feb 13 j 15:29	26° Ω 19′03			597 Apr 26 j 05:29	$\Pi^{\circ}0$	
min. Earth dist.	592 Feb 16 j 02:49	25° Ω 20′35	0.66439 AU	evening set	597 May 20 j 16:19	16° Ⅱ 06′06	
direct	592 Mar 25 j 13:29	16° Ω 27'33			597 Jun 11 j 02:00	0ංම	

conjunction	597 Jul 08 j 07:50	17° © 30'04	1°04'27
minimum elong	597 Jul 08 j 06:57	17° © 28'40	1°04'26
max. Earth dist.	597 Jul 13 j 22:49	21° © 05'43	2.66683 AU
	597 Jul 27 j 21:51	$0^{\circ}\Omega$	
morning rise	597 Aug 22 j 22:13	16° Ω 33'13	
-	597 Sep 13 j 01:35	0° m p	
	597 Oct 30 j 02:46	0∘ ⊽	
	597 Dec 16 j 01:24	o° m	
	598 Feb 01 j 10:56	0° ≯	
desc. node	598 Mar 06 j 00:03	19° √ 58'49	
	598 Mar 23 j 01:05	0°ెవ	
	598 May 26 j 06:23	0° ≈	
retrograde	598 Jun 20 j 02:48	3°≈43'24	
renograde	598 Jul 15 j 11:16	30°Rる	
opposition	598 Jul 20 j 07:09	28° පි 44'20	-6°47'44
greatest brilliancy	598 Jul 20 j 10:12	28° ප් 42'19	
min. Earth dist.	598 Jul 20 j 16:37	28° ප 38'05	
direct	598 Aug 19 j 04:20	28 3 38 03	0.57440 AU
direct	598 Sep 20 j 06:00	23 ○ 44 33	
1	598 Nov 17 j 09:08	0°)(
asc. node	599 Jan 03 j 05:54	29°)(45'44	
	599 Jan 03 j 14:40	0° Υ	
	599 Feb 18 j 15:19	0°B	
	599 Apr 06 j 02:44	Π°	
	599 May 23 j 06:34	0	
evening set	599 Jun 29 j 10:24	23° © 30'00	
	599 Jul 09 j 16:44	$0 {\circ} \Omega$	
max. Earth dist.	599 Aug 06 j 00:32	17° Ω 22'29	2.66940 AU
conjunction	599 Aug 14 j 09:10	22° Ω 43'10	1°07'26
minimum elong	599 Aug 14 j 09:41	22° Ω 44'00	1°07'25
	599 Aug 25 j 17:18	0° m	
morning rise	599 Sep 27 j 21:53	21°Mp32'55	
	599 Oct 10 j 18:16	0 ்⊽	
	599 Nov 24 j 12:48	0° M	
	600 Jan 07 j 01:14	0°⊀	
desc. node	600 Jan 21 j 22:55	10° ₹ 27'24	
	600 Feb 18 j 12:36	5°0	
	600 Mar 31 j 11:07	0° ≈	
	600 May 13 j 02:56	0° ∀	
	600 Jun 29 j 15:59	$0^{\circ}\mathbf{\Upsilon}$	
retrograde	600 Aug 27 j 07:49	19° Ƴ 21'24	
min. Earth dist.	600 Sep 23 j 21:54	14° Y ′09'43	0.44793 AU
greatest brilliancy	600 Oct 01 j 07:32	11° Y 38'36	-2.5m
opposition	600 Oct 02 j 01:06	11° Y 23'35	-2°43'44
direct	600 Nov 03 j 07:47	4° Y 55'24	
asc. node	600 Nov 20 j 05:36	6° Ƴ 41'44	
	601 Jan 18 j 02:24	0°8	
	601 Mar 12 j 21:43	0°II	
	601 May 02 j 04:17	0.8e	
	601 Jun 20 j 01:09	0°Ω	
evening set	601 Aug 04 j 18:11	28° Ω 51'28	
evening set	601 Aug 06 j 12:51	0° m)	
max. Earth dist.	601 Aug 29 j 18:18	עוי ס 15° m 04'25	2.61852 AU
man. Latui dist.	001 Aug 29 J 10.10	15 IJUV423	2.01032 AU
conjunction	601 Sep 19 j 22:27	29° m 05'27	0°44'00
minimum elong	601 Sep 19 j 23:41	29° mp 07'31	0°44'00
	601 Sep 21 j 07:04	0° ⊡	
	601 Nov 04 j 03:10	0° m	
morning rise	601 Nov 05 j 19:02	1°M09'48	
desc. node	601 Dec 08 j 22:33	24°M46'11	
aese. noue	601 Dec 16 j 03:31	0°×7	
	001 DCC 10 J 05.51	· ^	