•			`				
superior conj	1600 Sep 29 14:40	6° Ω 37'17	1°18'10	minimum elong	1603 Feb 28 20:13	9°) 53′51	8°47'44
minimum elong	1600 Sep 29 21:49	6° £ 59'38	1°18'01	morning rise	1603 Mar 03 20:58	8°) 00'47	
	1600 Oct 18 07:07	0°M		direct	1603 Mar 21 16:53	1° ¥ 56'33	
evening rise	1600 Nov 07 20:45	25°M46'10		greatest brilliancy	1603 Mar 30 17:20	3°) €27'43	-4.8m
desc. node	1600 Nov 10 03:45	28°M38'31		desc. node	1603 Apr 27 22:36	21°) 37′51	
	1600 Nov 11 05:46	0°⊀			1603 May 07 03:50	$0^{\circ}\Upsilon$	
	1600 Dec 05 04:27	0° ප		morning max el	1603 May 09 21:33		46°00'05
	1600 Dec 29 04:13	0°≈			1603 Jun 05 09:45	9° 8	
	1601 Jan 22 07:07	0° ∀			1603 Jul 02 06:27	Π $^{\circ}0$	
	1601 Feb 15 16:56	0° Υ			1603 Jul 28 01:44	0°50	
asc. node	1601 Mar 03 07:01	18° Y 50′26		asc. node	1603 Aug 19 02:07	26° © 15'58	
	1601 Mar 12 15:43	8°0			1603 Aug 22 04:23	0° N	
	1601 Apr 07 13:39 1601 May 05 11:29	0°© 0°∏			1603 Sep 15 18:25 1603 Oct 09 23:20	0 ் ம 0° ம்	
evening max el	1601 May 12 13:02	6°958'26	45°26'00		1603 Nov 02 22:41	0°M	
evening max ci	1601 Jun 09 21:44	0°Ω	43 20 00	morning set	1603 Nov 02 22:41 1603 Nov 03 13:59	0°M48'00	
greatest brilliancy	1601 Jun 19 08:21	4° Ω 37'47	-4 7m	morning set	1603 Nov 26 19:26	0° ∡ 7	
desc. node	1601 Jun 22 20:25	5° Ω 43'43	,	desc. node	1603 Dec 08 15:37	14° ×7 54'21	
retrograde	1601 Jun 30 02:58	6° Ω 41'50		dese. node	1000 200 00 10.57	11,7,0121	
evening set	1601 Jul 16 00:14	1° £ 52'55		superior conj	1603 Dec 14 03:07	21° ∡ ⁴48′09	-0°13'05
C	1601 Jul 19 04:41	30° ₹ 5		minimum elong	1603 Dec 13 23:38	21° ₹ 37'12	0°12'55
inferior conj	1601 Jul 21 13:38	28° © 31'41	-6°05'20	behind sun begin	1603 Dec 13 07:13	20° х 45′31	
minimum elong	1601 Jul 21 03:44	28°5947'08	6°03'17	behind sun end	1603 Dec 14 16:04	22° ≯ 28'53	
min. Earth dist.	1601 Jul 21 13:30	28° © 31'53	0.28951 AU	max. Earth dist.	1603 Dec 14 12:58	22° х 19′10	1.71055 AU
morning rise	1601 Jul 26 07:08	25°538'48			1603 Dec 20 15:28	5°0	
direct	1601 Aug 12 05:42	20°9514'57			1604 Jan 13 12:02	0° ≈	
greatest brilliancy	1601 Aug 22 19:13	22° © 16'16	-4.8m	evening rise	1604 Jan 24 16:00	14° ≈ 00′36	
	1601 Sep 06 00:14	0 \circ Ω			1604 Feb 06 10:27	0° ∀	
morning max el	1601 Sep 30 19:11	21° Ω 19′00	46°15'09		1604 Mar 01 12:34	0° Υ	
	1601 Oct 09 08:37	0° m/y			1604 Mar 25 20:37	0° 8	
asc. node	1601 Oct 13 23:45	4° m 53'07		asc. node	1604 Mar 30 18:59	6° 8 01'53	
	1601 Nov 05 12:00 1601 Nov 30 20:15	0° ™ 0° 亚			1604 Apr 19 13:14 1604 May 14 17:53	0°© 0°∏	
	1601 Nov 30 20:13	0° ⊼ 1			1604 Jun 09 17:18	0°Ω	
	1602 Jan 18 16:55	0°ਤ			1604 Jul 07 04:40	0°Mp	
desc. node	1602 Feb 02 13:10	18° ට 25'20		desc. node	1604 Jul 20 08:11	13° mp 16'35	
dese. node	1602 Feb 11 20:56	0°≈		evening max el	1604 Jul 22 17:54	15° m 35'40	45°40'40
	1602 Mar 08 00:47	0°) €		Č	1604 Aug 08 00:13	0∘ ⊽	
	1602 Apr 01 05:51	$0^{\circ}\mathbf{\Upsilon}$		greatest brilliancy	=	14° ഫ 00'03	-4.8m
morning set	1602 Apr 06 12:19	6° Ƴ 30'56		retrograde	1604 Sep 09 15:14	15° ≙ 30'49	
	1602 Apr 25 12:50	9° 8		evening set	1604 Sep 27 04:13	9° ≏ 47'24	
				inferior conj	1604 Sep 30 15:53	7° ≏ 41'11	-8°05'30
superior conj	1602 May 14 04:35	22° 8 58'27		minimum elong	1604 Sep 30 23:36	7° ჲ 29'20	8°04'35
minimum elong	1602 May 14 10:32	23° 8 16'44		min. Earth dist.	1604 Oct 01 14:05		0.27726 AU
max. Earth dist.	1602 May 15 15:51		1.73403 AU	morning rise	1604 Oct 04 18:36	5° ≏ 11'56	
	1602 May 19 21:40	0° I I			1604 Oct 17 17:58	30°₹ ™	
asc. node	1602 May 26 16:45	8° Ⅱ 21'13		direct	1604 Oct 21 16:43	29° m/40'58	
ovoning riso	1602 Jun 13 07:46	0°ତ 7° ତ 59'14		grantast brillianav	1604 Oct 25 17:18	0° ჲ 2° ჲ 01'22	4.0m
evening rise	1602 Jun 19 19:55 1602 Jul 07 18:33	/ \$39 14 0°Ω		greatest brilliancy asc. node	1604 Nov 01 22:14 1604 Nov 10 11:39	2 ≗ 01 22 6° ≗ 25'38	-4.9111
	1602 Aug 01 06:18	0° m		asc. noue	1604 Dec 08 11:25	0°M	
	1602 Aug 25 20:13	0∘ ত		morning max el	1604 Dec 11 09:28	2°M56'43	46°53'55
desc. node	1602 Sep 15 05:55	24° ≏ 45'34		morning max or	1605 Jan 05 07:45	0° √	10 23 23
	1602 Sep 19 13:58	0°M			1605 Jan 31 02:21	0° ට	
	1602 Oct 14 13:47	0° ∡ ¹			1605 Feb 25 03:23	0° ≈	
	1602 Nov 09 00:25	8°0		desc. node	1605 Mar 02 01:02	5°≈55'20	
	1602 Dec 05 12:21	0° ≈			1605 Mar 21 21:21	0°) €	
evening max el	1602 Dec 19 00:03	14° ≈ 17′04	47°17'38		1605 Apr 15 12:33	0 ° Υ	
	1603 Jan 04 11:41	0° ∀			1605 May 10 02:46	0°8	
asc. node	1603 Jan 06 09:20	1°) 37′57			1605 Jun 03 16:12	Π °0	
greatest brilliancy	1603 Jan 28 12:16	15° ¥ 56′22	-4.9m	morning set	1605 Jun 14 09:20	13° Ⅱ 06'35	
retrograde	1603 Feb 07 22:32	18°) €00'18		asc. node	1605 Jun 23 04:34	23° ∏ 53′39	
evening set	1603 Feb 25 19:43	11°) (47'05	0.000		1605 Jun 28 04:03	0°95	
min. Earth dist.	1603 Feb 28 04:51	10°) 18′04	0.27763 AU	max. Earth dist.	1605 Jul 18 04:29	24° © 36'39	1.73388 AU
inferior conj	1603 Feb 28 20:58	9° 升 52'40	8~47.43				

:	1605 1-1 20 10:50	2796740105	0050110	J:4	1600 I 04 02-27	1.49.7.40105	
superior conj	1605 Jul 20 18:58		0°59'18	direct	1608 Jan 04 02:27	14° х 49'05	4.0
minimum elong	1605 Jul 20 10:12	27° © 22'07	0°59'00	greatest brilliancy	1608 Jan 13 23:11	16° ⊀ ¹40'48	-4.9m
	1605 Jul 22 13:26	0° Ω			1608 Feb 04 09:18	0°る	15011112
	1605 Aug 15 20:19	0° m/y		morning max el	1608 Feb 23 10:38	17° る 32'36	46°44'43
evening rise	1605 Aug 25 18:18	12° TD 16'38			1608 Mar 06 11:58	0° ≈	
	1605 Sep 09 01:35	0∘ ⊽		desc. node	1608 Mar 29 12:57	25° ≈ 22'37	
	1605 Oct 03 06:30	0° M			1608 Apr 02 14:42	0° ∀	
desc. node	1605 Oct 12 17:53	11° M 44'09			1608 Apr 28 12:42	0° Υ	
	1605 Oct 27 12:07	0° ∡			1608 May 23 22:02	0° 8	
	1605 Nov 20 19:31	0°ප			1608 Jun 17 23:55	Π °0	
	1605 Dec 15 07:01	0° ≈			1608 Jul 12 19:32	0 \circ	
	1606 Jan 09 04:29	0° ∀		asc. node	1608 Jul 20 16:19	9° 5 34'34	
asc. node	1606 Feb 02 21:08	28°) (40′30			1608 Aug 06 08:47	0 $^{\circ}\Omega$	
	1606 Feb 04 01:24	0° Y		morning set	1608 Aug 21 05:44	18° Ω 19'52	
evening max el	1606 Feb 28 09:49	26° Y ′00′24	46°21'58		1608 Aug 30 15:57	0° m y	
	1606 Mar 04 11:27	0° ႘			1608 Sep 23 18:27	0∘ ত	
greatest brilliancy	1606 Apr 08 10:07	25° 8 39'55	-4.8m	max. Earth dist.	1608 Sep 24 00:11	0° ₽ 17'55	1.72056 AU
retrograde	1606 Apr 19 05:40	27° 8 49'43			-		
evening set	1606 May 04 22:33	23° 8 00'55		superior conj	1608 Sep 27 05:59	4° ≏ 20'42	1°19'26
inferior conj	1606 May 10 14:45	19° 8 33'54	3°25'05	minimum elong	1608 Sep 27 12:31	4° Ω 41'05	1°19'20
minimum elong	1606 May 10 21:43	19° 8 22'57		8	1608 Oct 17 18:15	0° M	
min. Earth dist.	1606 May 10 16:22	19° 8 31'22	0.28774 AU	evening rise	1608 Nov 05 08:27	23°M17'09	
morning rise	1606 May 16 21:06	15° 8 47'11	0.20774710	desc. node	1608 Nov 09 05:51	28°M09'45	
desc. node	1606 May 25 10:29	13° 8 11'18		desc. Hode	1608 Nov 10 17:03	28 11 0 0943	
direct	1606 Jun 01 01:12	11° 8 18'56			1608 Dec 04 15:54	0°る	
			4.7				
greatest brilliancy	1606 Jun 11 05:44	13° 8 11'04	-4./m		1608 Dec 28 15:51	0° ≈	
	1606 Jul 07 14:28	0°II	45044100		1609 Jan 21 19:01	0°) €	
morning max el	1606 Jul 19 19:34	11° Ⅱ 00'54	45°44'23		1609 Feb 15 05:19	0°Υ •••••••	
	1606 Aug 07 14:41	0°®		asc. node	1609 Mar 02 09:04	18° Y 18′05	
	1606 Sep 03 18:04	$0^{\circ}\Omega$			1609 Mar 12 04:59	0°B	
asc. node	1606 Sep 15 14:05	13° Ω 42'44			1609 Apr 07 04:48	Π °0	
	1606 Sep 29 08:03	0° ™			1609 May 05 07:43	0 \circ 60	
	1606 Oct 24 01:12	0∘ ⊽		evening max el	1609 May 10 05:04	4°9347'46	45°26'54
	1606 Nov 17 06:33	0°M₊			1609 Jun 11 10:23	0 $^{\circ}$ Ω	
	1606 Dec 11 06:07	0° ∡ 7		greatest brilliancy	1609 Jun 17 00:18	2° Ω 28′39	-4.7m
	1607 Jan 04 03:39	8°0		desc. node	1609 Jun 21 22:22	3° Ω 54'44	
desc. node	1607 Jan 05 03:18	1° る 14'14		retrograde	1609 Jun 27 18:35	4° Ω 32'39	
morning set	1607 Jan 18 23:09	18° る 35'52			1609 Jul 13 04:56	30° ℝ ∽	
	1607 Jan 28 01:13	0° ≈		evening set	1609 Jul 13 14:02	29° 5 47'21	
	1607 Feb 21 00:05	0° ∀		inferior conj	1609 Jul 19 05:58	26°522'22	-5°51'03
				minimum elong	1609 Jul 18 20:07	26°937'45	5°48'55
superior conj	1607 Mar 01 03:44	10° ¥ 11'07	-1°25'57	min. Earth dist.	1609 Jul 19 05:38	26° © 22'53	0.28961 AU
minimum elong	1607 Mar 01 02:44	10°) €08'01	1°25'56	morning rise	1609 Jul 24 02:06	23° © 25'17	
max. Earth dist.	1607 Mar 05 02:03	15°) €05'21	1.71952 AU	direct	1609 Aug 09 22:03	18° © 05'35	
	1607 Mar 17 01:25	0° Υ		greatest brilliancy	1609 Aug 20 11:01	20° © 05'51	-4.8m
evening rise	1607 Apr 09 15:47	29° Υ 15'17		8	1609 Sep 06 17:10	0°N	
evening rise	1607 Apr 10 06:16	0°8		morning max el	1609 Sep 28 09:27	19° Ω 01'38	46°13'26
asc. node	1607 Apr 28 06:59	22° 8 12'24		morning max cr	1609 Oct 09 03:44	0° m)	40 13 20
asc. node	1607 May 04 15:24	0°II		asc. node	1609 Oct 13 01:57	ارات 4° الله 10'21	
	1607 May 29 05:16	0ಂ ತಾ		asc. node	1609 Nov 05 03:02	ე∘ <u>ი</u>	
	•	0°Ω				0 == 0°M	
	1607 Jun 23 00:41				1609 Nov 30 09:40		
	1607 Jul 18 03:50	0° my			1609 Dec 24 22:57	0° ∡	
	1607 Aug 12 19:21	0∘ ⊽			1610 Jan 18 04:59	0°る	
desc. node	1607 Aug 17 19:58	5° Ω 46'33		desc. node	1610 Feb 01 15:12	17° る 54'59	
	1607 Sep 08 09:01	0° M			1610 Feb 11 08:36	0° ≈	
evening max el	1607 Oct 05 00:46	27°M59'26	46°48'56		1610 Mar 07 12:10	0° ∀	
	1607 Oct 07 02:05	0° ∡ ¹			1610 Mar 31 17:02	0° Υ	
greatest brilliancy	1607 Nov 14 10:37	28° ∡ 18'34	-4.9m	morning set	1610 Apr 04 03:09	4° Υ 14'01	
	1607 Nov 21 19:40	0°る			1610 Apr 24 23:52	0°8	
retrograde	1607 Nov 24 05:47	0° る 07'02					
	1607 Nov 26 15:11	30°₽ ✓		superior conj	1610 May 11 21:33	20° 8 49'18	-0°32'15
evening set	1607 Dec 08 11:34	26° ₹ 04'04		minimum elong	1610 May 12 04:03	21° 8 09'18	0°31'57
asc. node	1607 Dec 08 23:28	25° х 48′05		max. Earth dist.	1610 May 13 11:56	22° 8 47'23	1.73368 AU
inferior conj		220.725120	1°29'34		1610 May 19 08:38	Π°	
	1607 Dec 14 17:28	22° ₹ 25'39	1 27 34		1010 11149 17 00.50	• —	
minimum elong	1607 Dec 14 17:28 1607 Dec 14 14:04	22° x '23'39'49	1°28'28	asc. node	1610 May 25 18:45	7° Ⅱ 53'46	
minimum elong min. Earth dist.				asc. node	•		
•	1607 Dec 14 14:04	22° ∡ ³30'49	1°28'28	asc. node evening rise	1610 May 25 18:45	7° Ⅱ 53'46	

	1610 Jul 07 05:36	$0^{\circ}\Omega$		asc. node	1612 Nov 09 13:36	5° ≏ 00'59	
	1610 Jul 31 17:37	O° Mp			1612 Dec 08 10:28	0°M₊	
	1610 Aug 25 08:01	0∘ ⊽		morning max el	1612 Dec 09 00:45	0°M36'19	46°53'05
desc. node	1610 Sep 14 08:03	24° £ 14'41			1613 Jan 05 00:18	0° √	
	1610 Sep 19 02:29	0° M			1613 Jan 30 16:32	0°る	
	1610 Oct 14 03:21	0° ∡ ¹			1613 Feb 24 16:21	0° ≈	
	1610 Nov 08 15:47	ರ°0		desc. node	1613 Mar 01 03:08	5° ≈ 23'01	
	1610 Dec 05 07:31	0° ≈			1613 Mar 21 09:33	0° ∀	
evening max el	1610 Dec 16 13:40	11° ≈ 51'18	47°18'12		1613 Apr 15 00:12	$0^{\circ}\mathbf{\Upsilon}$	
•	1611 Jan 04 21:24	0° ∀			1613 May 09 14:01	0°8	
asc. node	1611 Jan 05 11:21	0°) €28'56			1613 Jun 03 03:11	0° I I	
greatest brilliancy	1611 Jan 26 04:01	13°) €34'53	-4.9m	morning set	1613 Jun 12 03:20	11° I I01'16	
retrograde	1611 Feb 05 12:41	15°) (37'45	,	asc. node	1613 Jun 22 06:31	23° Ⅲ 26′20	
evening set	1611 Feb 23 08:50	9° ∺ 27'14		use. Houe	1613 Jun 27 14:53	0° 9	
•	1611 Feb 26 11:15	7° \ 31'09	8°47'03	max. Earth dist.	1613 Jul 16 03:06	22°5945'09	1.73416 AU
inferior conj		7° ∺ 33'42		max. Earm dist.	1013 Jul 10 03.00	22 2043 09	1./3410 AU
minimum elong	1611 Feb 26 09:38				1612 1 1 10 12 20	250544121	0057102
min. Earth dist.	1611 Feb 25 18:47	7°) € 57'04	0.27705 AU	superior conj	1613 Jul 18 13:20	25°544'31	0°57'02
morning rise	1611 Mar 01 10:38	5°) 40′07		minimum elong	1613 Jul 18 04:38	25° © 17'40	0°56'42
	1611 Mar 14 18:42	30°R ≈			1613 Jul 22 00:15	0 $^{\circ}$ Ω	
direct	1611 Mar 19 05:54	29°≈35'51			1613 Aug 15 07:13	0° m	
	1611 Mar 23 19:37	0° ℋ		evening rise	1613 Aug 23 11:53	10° Mp 08'36	
greatest brilliancy	1611 Mar 28 07:00	1°) €07'14	-4.8m		1613 Sep 08 12:38	0。 ত	
desc. node	1611 Apr 27 00:44	20°) 38′01			1613 Oct 02 17:47	0° M.	
	1611 May 07 03:45	0 ° $\mathbf{\gamma}$		desc. node	1613 Oct 11 20:00	11°ML15'20	
morning max el	1611 May 07 10:56	0° Υ 17'21	46°01'28		1613 Oct 26 23:45	0° ∡ ¹	
	1611 Jun 05 02:09	0° ႘			1613 Nov 20 07:37	8°0	
	1611 Jul 01 20:10	0° I I			1613 Dec 14 19:49	0° ≈	
	1611 Jul 27 14:08	0°ಅ			1614 Jan 08 18:27	0°) €	
asc. node	1611 Aug 18 04:14	25°5946'54		asc. node	1614 Feb 01 23:13	28°) €00'45	
ase. Houe	1611 Aug 21 16:05	0°Ω		use. Houe	1614 Feb 03 17:49	0°Υ	
	-	0°m/		arranina marral	1614 Feb 26 01:51	23° Υ 46'19	46°24'27
	1611 Sep 15 05:45	0∘ ʊ		evening max el		0° 8	40 24 27
. ,	1611 Oct 09 10:30			4 41 711	1614 Mar 04 11:27		4.0
morning set	1611 Nov 01 03:11	28° £ 23'47		greatest brilliancy	1614 Apr 06 02:20	23° 8 28'21	-4.8m
	1611 Nov 02 09:50	0°M		retrograde	1614 Apr 16 22:41	25° 8 38'35	
	1611 Nov 26 06:37	0° ∡		evening set	1614 May 02 16:57	20° 8 46'37	
desc. node	1611 Dec 07 17:34	14° ≯ 25'12		inferior conj	1614 May 08 06:53	17° 8 22'39	
				minimum elong	1614 May 08 14:21	17° 8 10'54	3°41'33
superior conj	1611 Dec 11 13:06	19° ∡ 13'13	-0°09'08	min. Earth dist.	1614 May 08 08:08	17° 8 20'41	0.28755 AU
minimum elong	1611 Dec 11 10:40	19° ∡ ¹05'34	0°09'00	morning rise	1614 May 14 12:03	13° 8 37'51	
behind sun begin	1611 Dec 10 12:21	17° ∡ 55′20		desc. node	1614 May 24 12:24	9° 8 40'34	
behind sun end	1611 Dec 12 08:59	20° ∡ 15'47		direct	1614 May 29 17:21	9° 8 08'06	
max. Earth dist.	1611 Dec 11 17:17	19° ∡ ¹26'25	1.71066 AU	greatest brilliancy	1614 Jun 08 20:25	10° 8 59'27	-4.7m
	1611 Dec 20 02:41	0°రె			1614 Jul 07 19:01	$\Pi^{\circ}0$	
	1612 Jan 12 23:18	0° ≈		morning max el	1614 Jul 17 12:25	8° Ⅱ 53'16	45°44'06
evening rise	1612 Jan 22 02:00	11° ≈ 26′05		Č	1614 Aug 07 07:44	0°99	
8	1612 Feb 05 21:47	0°) €			1614 Sep 03 07:57	$0^{\circ}\Omega$	
	1612 Feb 29 23:58	0° Υ		asc. node	1614 Sep 14 16:09	13° Ω 10′21	
	1612 Mar 25 08:13	0°8		use. Houe	1614 Sep 28 20:33	0° m)	
asc. node	1612 Mar 29 21:08	5° 8 32'52			1614 Oct 23 13:01	0° م	
asc. Houc		0°Ⅱ			1614 Nov 16 18:00	0° M	
	1612 Apr 19 01:14						
	1612 May 14 06:43	0°9			1614 Dec 10 17:22	0° ∡ 7	
	1612 Jun 09 07:51	0° N			1615 Jan 03 14:46	0°る	
	1612 Jul 06 23:18	0° т р		desc. node	1615 Jan 04 05:23	0° る 45'56	
desc. node	1612 Jul 19 10:14	12° Mp 27'10		morning set	1615 Jan 16 09:10	16° る 01'59	
evening max el	1612 Jul 20 07:51	13° m) 18'57	45°39'10		1615 Jan 27 12:14	0° ≈	
	1612 Aug 08 12:21	0∘ ত			1615 Feb 20 11:03	0° ∀	
greatest brilliancy	1612 Aug 29 01:05	11° ≏ 40'42	-4.8m				
retrograde	1612 Sep 07 05:12	13° ≏ 12'52		superior conj	1615 Feb 26 15:45	7°){ 44′39	-1°25'42
evening set	1612 Sep 24 20:24	7° £ 25'12		minimum elong	1615 Feb 26 13:44	7°) 38′21	1°25'42
inferior conj	1612 Sep 28 06:00	5° ≙ 22'06	-8°13'15	max. Earth dist.	1615 Mar 02 14:58	12°) (41'49	1.71904 AU
minimum elong	1612 Sep 28 13:06	5° £ 11'14			1615 Mar 16 12:19	0°Υ	
min. Earth dist.	1612 Sep 29 03:45		0.27795 AU	evening rise	1615 Apr 07 06:06	26° Y 57'34	
morning rise	1612 Oct 02 05:26	2° £ 57'51	3.2,7,5110	0.0mig 1100	1615 Apr 09 17:10	0° 8	
2110111111g 1150	1612 Oct 02 03:20 1612 Oct 07 20:45	2 <u>=</u> 3/31 30°RM⊅		asc. node	1615 Apr 27 08:56	21° 8 44'44	
direct	1612 Oct 07 20:43 1612 Oct 19 07:41			asc. nouc	1615 May 04 02:24	21 Ö 44 44 0° Ⅱ	
		27° m 20'45	4.0		•		
greatest brilliancy	1612 Oct 30 13:16	29° m 41'35	-4.9M		1615 May 28 16:30	0° ©	
	1612 Oct 31 07:17	0∘ ರ			1615 Jun 22 12:22	0 ° Ω	

	1615 Jul 17 16:20	0° my		desc. node	1618 Jan 31 17:19	17° る 26'04	
	1615 Aug 12 09:18	0∘ ⊽			1618 Feb 10 19:53	0° ≈	
desc. node	1615 Aug 16 22:07	5° Ω 11'39			1618 Mar 06 23:10	0° ∀	
	1615 Sep 08 01:55	0° M ₊			1618 Mar 31 03:49	0 ° $\mathbf{\Upsilon}$	
evening max el	1615 Oct 02 15:16	25°M39'05	46°46'37	morning set	1618 Apr 01 18:01	1° Y 58'12	
	1615 Oct 07 03:07	0° ∡ 7			1618 Apr 24 10:30	$8^{\circ 0}$	
greatest brilliancy	1615 Nov 11 23:53	25° ₹ 50'54	-4.9m				
retrograde	1615 Nov 21 18:05	27° ⋌ ³37'51		superior conj	1618 May 09 14:32	18° 8 41'21	-0°35'16
evening set	1615 Dec 05 23:55	23° ∡ ³35'37		minimum elong	1618 May 09 21:34	19° 8 02'58	0°34'57
asc. node	1615 Dec 08 01:27	22° ∡ ¹27′00		max. Earth dist.	1618 May 11 07:07	20° 8 46'11	1.73338 AU
inferior conj	1615 Dec 12 05:38	19° ∡ 757'15	1°05'08		1618 May 18 19:12	$\Pi^{\circ}0$	
minimum elong	1615 Dec 12 03:09	20° ₹ '01'02	1°04'19	asc. node	1618 May 24 20:47	7° Ⅲ 27'28	
min. Earth dist.	1615 Dec 12 01:06	20° ∡ ¹04'10	0.26401 AU		1618 Jun 12 05:18	0°ಅ	
morning rise	1615 Dec 18 06:31	16° ∡ ¹26'17		evening rise	1618 Jun 15 09:24	3°953'27	
direct	1616 Jan 01 15:03	12° ₹ 20'55		evening rise	1618 Jul 06 16:21	0° Ω	
greatest brilliancy	1616 Jan 11 12:49	14° ₹ 13'26	-4.9m		1618 Jul 31 04:41	0° m y	
greatest offinancy	1616 Feb 04 20:02	0°る	4.7111		1618 Aug 24 19:33	0∘ ರ ೧.1%	
morning max el	1616 Feb 20 23:28	0 3 15° る 07'16	16915150	desc. node	•	0 == 23° £ 44'25	
morning max er			40 43 30	desc. node	1618 Sep 13 10:05		
1 1	1616 Mar 06 06:55	0°≈			1618 Sep 18 14:43	0°M.	
desc. node	1616 Mar 28 15:03	24°≈45'12			1618 Oct 13 16:40	0° ⊼	
	1616 Apr 02 05:35	0°) €			1618 Nov 08 06:56	600 ප	
	1616 Apr 28 01:45	0° Υ			1618 Dec 05 02:44	0° ≈	
	1616 May 23 10:03	0°B		evening max el	1618 Dec 14 03:04	9° ≈ 26'14	47°18'45
	1616 Jun 17 11:19	Π $^{\circ}0$		asc. node	1619 Jan 04 13:30	29° ≈ 19'31	
	1616 Jul 12 06:34	0 \circ \odot			1619 Jan 05 09:47	0° ∀	
asc. node	1616 Jul 19 18:28	9° 5 07'49		greatest brilliancy	1619 Jan 23 19:15	11°) (13′42	-4.9m
	1616 Aug 05 19:34	$0 {\circ} \Omega$		retrograde	1619 Feb 03 02:57	13° ∺ 16′19	
morning set	1616 Aug 18 22:40	16° Ω 10'47		evening set	1619 Feb 20 21:25	7° ₩ 08'49	
	1616 Aug 30 02:39	0° m		min. Earth dist.	1619 Feb 23 08:36	5°) 37′03	0.27649 AU
max. Earth dist.	1616 Sep 21 11:56	27° m 51'23	1.72110 AU	inferior conj	1619 Feb 24 01:29	5° ₩ 10'31	8°45'20
	1616 Sep 23 05:10	0∘ ⊽		minimum elong	1619 Feb 23 23:01	5° ₩ 14'25	8°45'14
	1			morning rise	1619 Feb 27 00:47	3°) 19'47	
superior conj	1616 Sep 24 21:26	2° £ 05'38	1°20'35	Ü	1619 Mar 05 03:45	30° R ≈	
minimum elong	1616 Sep 25 03:19	2° £ 23'59	1°20'30	direct	1619 Mar 16 18:53	27°≈15'55	
minimum crong	1616 Oct 17 05:06	0°M.	1 2030	greatest brilliancy	1619 Mar 25 20:41	28°≈47'51	-4.8m
evening rise	1616 Nov 02 20:29	20°M50'09		greatest orimaney	1619 Mar 29 01:58	0° ∀	4.0111
desc. node	1616 Nov 08 07:48	27°M41'26		desc. node	1619 Apr 26 02:38	19°) 40'20	
uese. Houe	1616 Nov 10 04:03	27 11 0 41 20			•	28°\(\frac{1}{2}\)00'32	46°02'57
				morning max el	1619 May 05 01:03	28°π0032 0°Υ	46 02 37
	1616 Dec 04 03:03	0° る			1619 May 07 02:07		
	1616 Dec 28 03:10	0° ≈			1619 Jun 04 17:47	0° B	
	1617 Jan 21 06:36	0°) €			1619 Jul 01 09:21	0°Щ	
	1617 Feb 14 17:22	0° Υ			1619 Jul 27 02:07	0ං ව	
asc. node	1617 Mar 01 11:12	17° Y 47′03		asc. node	1619 Aug 17 06:19	25°518'40	
	1617 Mar 11 17:56	0°8			1619 Aug 21 03:27	$0 ^{\circ} \Omega$	
	1617 Apr 06 19:46	Π $^{\circ}0$			1619 Sep 14 16:48	O° My	
	1617 May 05 04:18	0			1619 Oct 08 21:25	0∘ ত	
evening max el	1617 May 07 20:11	2° © 35'35	45°27'40	morning set	1619 Oct 29 16:24	26° ≏ 00'38	
	1617 Jun 13 19:29	$0 {\circ} \Omega$			1619 Nov 01 20:42	0° M	
greatest brilliancy	1617 Jun 14 16:10	0° Ω 19'42	-4.7m		1619 Nov 25 17:27	0° ∡ ¹	
desc. node	1617 Jun 21 00:27	2° Ω 02'06		desc. node	1619 Dec 06 19:39	13° ∡ 57'32	
retrograde	1617 Jun 25 10:03	2° Ω 23'55					
•	1617 Jul 06 12:15	30°Rூ		superior conj	1619 Dec 08 23:03	16° ∡ ³39'17	-0°05'09
evening set	1617 Jul 11 03:47	27°5641'46		minimum elong	1619 Dec 08 21:40	16° ∡ ³34'58	
inferior conj	1617 Jul 16 22:11	24°513'26	-5°36'06	behind sun begin	1619 Dec 07 20:24	15° ∡ 15'26	
minimum elong	1617 Jul 16 12:28	24°528'38		behind sun end	1619 Dec 09 22:57	17° × 54'31	
min. Earth dist.	1617 Jul 16 21:57	24° © 13'48	0.28970 AU	max. Earth dist.	1619 Dec 09 01:13	16° × ⁷ 46'09	1.71076 AU
	1617 Jul 21 20:57	21°5012'16	0.26770 AC	max. Lartii dist.	1619 Dec 19 13:33	0°ਰ ਨ	1./10/0 AC
morning rise direct					1619 Dec 19 13:33 1620 Jan 12 10:13	0°≈	
	1617 Aug 07 13:53	15°956'28	1 0	avanir:			
greatest brilliancy	1617 Aug 18 03:25	17°956'40	-4.8m	evening rise	1620 Jan 19 12:06	8°≈53'00	
	1617 Sep 07 05:29	0° N	46011176		1620 Feb 05 08:46	0°) €	
morning max el	1617 Sep 25 23:31	16° Ω 44'41	46°11'56		1620 Feb 29 11:03	0° Υ	
	1617 Oct 08 22:01	0° m			1620 Mar 24 19:30	0°8	
asc. node	1617 Oct 12 03:57	3°Mp28'36		asc. node	1620 Mar 28 23:05	5° 8 04'13	
	1617 Nov 04 17:29	0∘ ⊽			1620 Apr 18 12:56	Π $^{\circ}0$	
	1617 Nov 29 22:35	0° M.			1620 May 13 19:17	0 \circ \odot	
	1617 Dec 24 11:05	0°⊀			1620 Jun 08 22:13	$0^{\circ}\Omega$	
	1618 Jan 17 16:38	5°0			1620 Jul 06 18:06	0° m	

	1620 1 1 17 22 27	11070-04142	45027120		1/22 1 12 10 4/	120 7 2(12)	
evening max el	1620 Jul 17 22:27	11° Mp 04'43	45°3/'30	morning set	1623 Jan 13 18:46	13° そ 26'36 0°≈	
desc. node	1620 Jul 18 12:21	11° m √37'48 0° ⊆			1623 Jan 26 23:18 1623 Feb 19 21:59	0° ∺	
greatest brilliancy	1620 Aug 09 04:16 1620 Aug 26 12:40	0 <u>ឆ</u> 9° ჲ 21'11	-4.8m		1023 Feb 19 21.39	0 X	
retrograde	1620 Sep 04 19:10	9 = 21 11 10° £ 54'56	-4.0111	superior conj	1623 Feb 24 03:22	5° ¥ 16'51	1025110
evening set	1620 Sep 04 19:10 1620 Sep 22 12:13	5° £ 03′29		minimum elong	1623 Feb 24 00:21	5° ₩ 07'23	
inferior conj	1620 Sep 25 19:55	3° ⊆ 03′29	-8°20'12	max. Earth dist.	1623 Feb 28 05:07		1.71849 AU
minimum elong	1620 Sep 26 02:21	2° £ 53'12		max. Earth dist.	1623 Mar 15 23:11	0°Υ	1.71047710
min. Earth dist.	1620 Sep 26 16:53		0.27865 AU	evening rise	1623 Apr 04 20:10	24° Υ 39'00	
morning rise	1620 Sep 29 16:11	0° £ 43'33			1623 Apr 09 04:03	0°8	
	1620 Sep 30 22:22	30°RM)		asc. node	1623 Apr 26 10:59	21° 8 17'21	
direct	1620 Oct 16 22:54	25° m 00'46			1623 May 03 13:24	0°II	
greatest brilliancy	1620 Oct 28 03:34	27° m) 21'08	-4.9m		1623 May 28 03:46	0ಂತ	
· ·	1620 Nov 02 17:12	0∘ <u>⊽</u>			1623 Jun 22 00:06	$0^{\circ}\Omega$	
asc. node	1620 Nov 08 15:37	3° ഫ 39'23			1623 Jul 17 04:53	0° m)	
morning max el	1620 Dec 06 16:10	28° ≏ 16'53	46°52'18		1623 Aug 11 23:23	0° ق	
	1620 Dec 08 08:26	0° M		desc. node	1623 Aug 16 00:10	4° £ 36'19	
	1621 Jan 04 16:21	0°⊀			1623 Sep 07 19:09	0°M	
	1621 Jan 30 06:19	ರ°0		evening max el	1623 Sep 30 04:40	23°M16'01	46°44'04
	1621 Feb 24 04:57	0°≈			1623 Oct 07 05:33	0° ∡ ¹	
desc. node	1621 Feb 28 05:12	4° ≈ 51'34		greatest brilliancy	1623 Nov 09 13:26	23° ҂ ¹23'07	-4.9m
	1621 Mar 20 21:25	0°) €		retrograde	1623 Nov 19 05:30	25° ∡ 108′05	
	1621 Apr 14 11:34	0° Y		evening set	1623 Dec 03 12:21	21° ₰ 06'03	
	1621 May 09 01:01	0°8		asc. node	1623 Dec 07 03:38	19° ∡ 02'10	
	1621 Jun 02 13:54	Π °0		inferior conj	1623 Dec 09 17:42	17° ∡ 28'13	0°40'25
morning set	1621 Jun 09 21:29	8° Ⅲ 57'12		minimum elong	1623 Dec 09 16:09	17° ∡ °30'35	0°39'55
asc. node	1621 Jun 21 08:42	23° Ⅱ 00′27		min. Earth dist.	1623 Dec 09 15:01	17° ∡ ³32′18	0.26403 AU
	1621 Jun 27 01:28	0		morning rise	1623 Dec 15 19:59	13° ₹ 55'01	
max. Earth dist.	1621 Jul 14 01:57	20° © 55'10	1.73440 AU	direct	1623 Dec 30 03:10	9° ≯ 751'43	
				greatest brilliancy	1624 Jan 09 03:07	11° ∡ ⁴45'50	-4.9m
superior conj	1621 Jul 16 07:51	23° © 41'05	0°54'40		1624 Feb 05 04:19	0°ಕ	
minimum elong	1621 Jul 15 23:13	23° © 14'33	0°54'21	morning max el	1624 Feb 18 11:24	12° る 38'38	46°47'01
	1621 Jul 21 10:50	0 ° Ω			1624 Mar 06 01:38	0° ≈	
	1621 Aug 14 17:54	0° m/		desc. node	1624 Mar 27 17:02	24°≈07'09	
evening rise	1621 Aug 21 05:36	8° mp 01'39			1624 Apr 01 20:28	0°) €	
	1621 Sep 07 23:32	0∘ 亚			1624 Apr 27 14:50	$^{\circ \gamma}$	
JJ.	1621 Oct 02 04:58	0° ጤ 10° ጤ 46'19			1624 May 22 22:09	0°B 8°0	
desc. node	1621 Oct 10 21:57				1624 Jun 16 22:49	0ಂខ 0.π	
	1621 Oct 26 11:20 1621 Nov 19 19:41	0°る		asc. node	1624 Jul 11 17:41 1624 Jul 18 20:29	8°9540'20	
	1621 Dec 14 08:35	0°≈		asc. node	1624 Aug 05 06:29	0°Ω	
	1622 Jan 08 08:24	0° ∀		morning set	1624 Aug 16 15:53	14° Ω 02'09	
asc. node	1622 Feb 01 01:17	27° ∺ 21'09		morning set	1624 Aug 29 13:29	0° m	
use. Houe	1622 Feb 03 10:20	0°Υ		max. Earth dist.	1624 Sep 19 02:17	25° m/32'35	1.72163 AU
evening max el	1622 Feb 23 18:06	21° Υ 33'13	46°26'57	man. Bartir dist.	102 : 5 c p 17 02:17	20	1.72103110
* · · · · · · · · · · · · · · · · · · ·	1622 Mar 04 12:24	0°8		superior conj	1624 Sep 22 13:23	29° m 51'44	1°21'35
greatest brilliancy	1622 Apr 03 18:57	21° 8 17'44	-4.8m	minimum elong	1624 Sep 22 18:35	0° £ 07'56	1°21'30
retrograde	1622 Apr 14 15:24	23° 8 27'44		Č	1624 Sep 22 16:02	0∘ ত	
evening set	1622 Apr 30 11:30	18° 8 32'40			1624 Oct 16 16:05	0° M	
inferior conj	1622 May 05 23:01	15° 8 11'47	4°01'46	evening rise	1624 Oct 31 09:00	18°M24'26	
minimum elong	1622 May 06 06:57	14° 8 59'17	3°59'40	desc. node	1624 Nov 07 09:56	27°M13'15	
min. Earth dist.	1622 May 05 23:54	15° 8 10'24	0.28734 AU		1624 Nov 09 15:12	0°⊀	
morning rise	1622 May 12 02:47	11° 8 28'58			1624 Dec 03 14:23	ರ∘ರ	
desc. node	1622 May 23 14:33	7° 8 14'57			1624 Dec 27 14:43	0° ≈	
direct	1622 May 27 09:41	6° 8 57'45			1625 Jan 20 18:28	0° ∀	
greatest brilliancy	1622 Jun 06 10:52	8° 8 47'50	-4.7m		1625 Feb 14 05:45	0 ° $\mathbf{\gamma}$	
	1622 Jul 07 21:41	Π °0		asc. node	1625 Feb 28 13:09	17° Ƴ 14′27	
morning max el	1622 Jul 15 04:38	6° Ⅱ 44'31	45°43'53		1625 Mar 11 07:18	$0^{\circ}S$	
	1622 Aug 07 00:19	0°€			1625 Apr 06 11:15	$\Pi^{\circ}0$	
	1622 Sep 02 21:34	0 $^{\circ}\Omega$			1625 May 05 01:55	0ංම	
asc. node	1622 Sep 13 18:10	12° Ω 38'19		evening max el	1625 May 05 10:46	0°521'24	45°28'44
	1622 Sep 28 08:54	0° m y		greatest brilliancy	1625 Jun 12 07:43	28°909'55	-4.7m
	1622 Oct 23 00:45	0° ™			1625 Jun 19 10:42	0°N	
	1622 Nov 16 05:26	0°M		desc. node	1625 Jun 20 02:35	0° Ω 04'57	
	1622 Dec 10 04:38	0° ⊀ ⁷		retrograde	1625 Jun 23 01:58	0° Ω 15'04	
desc. node	1623 Jan 03 07:33	0°る17'40			1625 Jun 26 15:52	30°R≌	
	1623 Jan 03 01:55	0°ප		evening set	1625 Jul 08 17:45	25° © 35'29	

	1625 1 1 14 14 20	220504100	5020140		1627 D 05 06 50	100 741150	
inferior conj	1625 Jul 14 14:30	22°504'08		behind sun begin	1627 Dec 05 06:50	12°×741'59	
minimum elong	1625 Jul 14 04:57	22°519'04		behind sun end max. Earth dist.	1627 Dec 07 11:16 1627 Dec 06 10:18	15° × 27'01	1 71002 ATT
min. Earth dist.	1625 Jul 14 14:17 1625 Jul 19 15:53	22°504'29	0.28979 AU	max. Earth dist.		14°ダ08'26 0°る	1.71082 AU
morning rise direct		18°959'10 13°946'48			1627 Dec 19 00:44 1628 Jan 11 21:26	0°≈	
greatest brilliancy	1625 Aug 05 05:43 1625 Aug 15 20:15	15°947'35	4.7m	evening rise	1628 Jan 16 22:32	0 ≈ 6°≈20'03	
greatest offinality	1625 Sep 07 14:52	13 3 47 33	-4 ./III	evening rise	1628 Feb 04 20:01	0 ≈ 2003	
morning max el	1625 Sep 23 14:19	14° Ω 29'06	46°10'37		1628 Feb 28 22:25	0°Υ	
morning max ci	1625 Oct 08 16:05	0° m	40 10 37		1628 Mar 24 07:06	0°8	
asc. node	1625 Oct 11 05:56	2° m/46'43		asc. node	1628 Mar 28 01:09	4° 8 34'56	
use. Houe	1625 Nov 04 08:00	0∘ ಹ		use. Hode	1628 Apr 18 01:02	0°II	
	1625 Nov 29 11:38	0° M			1628 May 13 08:19	0°©	
	1625 Dec 23 23:23	0° ∡ 7			1628 Jun 08 13:11	$0^{\circ}\Omega$	
	1626 Jan 17 04:29	0° ට			1628 Jul 06 13:53	0° m	
desc. node	1626 Jan 30 19:20	16° පි 56'01		evening max el	1628 Jul 15 13:41	8° m) 51'04	45°35'59
	1626 Feb 10 07:26	0° ≈		desc. node	1628 Jul 17 14:22	10° m 46'19	
	1626 Mar 06 10:29	0° ∀			1628 Aug 10 02:13	0∘ <u>⊽</u>	
morning set	1626 Mar 30 08:22	29° ₩ 39'39		greatest brilliancy	1628 Aug 24 00:42	7° ≏ 01'51	-4.8m
Č	1626 Mar 30 14:57	$_0$ ° $\boldsymbol{\gamma}$		retrograde	1628 Sep 02 09:11	8° ≏ 36'42	
	1626 Apr 23 21:29	0°8		evening set	1628 Sep 20 04:02	2° ≏ 42'10	
	•			inferior conj	1628 Sep 23 10:04	0° ≏ 43'54	-8°26'12
superior conj	1626 May 07 07:09	16° 8 31'10	-0°38'16	minimum elong	1628 Sep 23 15:47	0° ჲ 35'08	8°25'43
minimum elong	1626 May 07 14:40	16° 8 54'21	0°37'56	min. Earth dist.	1628 Sep 24 06:04	0° ≙ 13'12	0.27931 AU
max. Earth dist.	1626 May 09 01:15	18° 8 40'45	1.73303 AU		1628 Sep 24 14:42	30° ₽, ™)	
	1626 May 18 06:06	Π $^{\circ}0$		morning rise	1628 Sep 27 03:18	28° m 28'44	
asc. node	1626 May 23 22:55	7° Ⅱ 00'33		direct	1628 Oct 14 14:27	22° m 40'54	
	1626 Jun 11 16:13	0ංම		greatest brilliancy	1628 Oct 25 17:35	24° m 59'57	-4.9m
evening rise	1626 Jun 13 03:55	1°5549'30			1628 Nov 04 06:32	0∘ ⊽	
	1626 Jul 06 03:26	$0 {\circ} \Omega$		asc. node	1628 Nov 07 17:49	2° ჲ 20'06	
	1626 Jul 30 16:05	O° m y		morning max el	1628 Dec 04 07:15	25° ≙ 55'51	46°51'23
	1626 Aug 24 07:27	0∘ ऌ			1628 Dec 08 05:55	0°M	
desc. node	1626 Sep 12 12:05	23° £ 12'57			1629 Jan 04 08:26	0° ∡	
	1626 Sep 18 03:20	0°M₊			1629 Jan 29 20:16	0°る	
	1626 Oct 13 06:23	0° ∡			1629 Feb 23 17:45	0° ≈	
	1626 Nov 07 22:33	0°₹		desc. node	1629 Feb 27 07:12	4°≈19'13	
	1626 Dec 04 22:45	0° ≈	.=		1629 Mar 20 09:29	0°) €	
evening max el	1626 Dec 11 17:03	7°≈02'07	47°19'16		1629 Apr 13 23:08	0° Υ	
asc. node	1627 Jan 03 15:29	28°≈07'10			1629 May 08 12:14	8°0	
	1627 Jan 06 02:41	0° ∺ 8° ∺ 50'57	4.0		1629 Jun 02 00:55	0°Ⅱ (°Ⅲ52120	
greatest brilliancy	1627 Jan 21 09:45 1627 Jan 31 17:42	8° X 50'57 10° X 54'13	-4.9m	morning set asc. node	1629 Jun 07 15:42 1629 Jun 20 10:44	6° П 52'28 22° П 33'08	
retrograde	1627 Feb 18 09:34	4° ¥ 50'05		asc. node	1629 Jun 26 12:23	22 п 33 08	
evening set min. Earth dist.	1627 Feb 18 09.34 1627 Feb 20 22:04	3° ∺ 16'36	0.27596 AU	max. Earth dist.	1629 Jul 11 22:59	18°©58'42	1.73462 AU
inferior conj	1627 Feb 20 22:04 1627 Feb 21 15:45	2° \ 48'56	8°42'37	max. Earth dist.	1029 Jul 11 22.39	16 33642	1.73402 AU
minimum elong	1627 Feb 21 12:25	2° H 54'09	8°42'28	superior conj	1629 Jul 14 02:21	21° © 36'47	0°52'14
morning rise	1627 Feb 24 15:26	0° ¥ 57'54	0 42 20	minimum elong	1629 Jul 13 17:54	21°53047	0°51'55
morning rise	1627 Feb 26 06:27	30°R≈		minimum crong	1629 Jul 20 21:44	0°Ω	0 31 33
direct	1627 Mar 14 08:19	24°≈54'58			1629 Aug 14 04:53	0° m)	
greatest brilliancy	1627 Mar 23 10:07	26°≈27'12	-4.8m	evening rise	1629 Aug 18 23:19	5° m 53'52	
<u>.</u>	1627 Mar 31 11:29	0°) €		5	1629 Sep 07 10:41	0∘ ⊽	
desc. node	1627 Apr 25 04:48	18°) 43′24			1629 Oct 01 16:26	0° M ₊	
morning max el	1627 May 02 16:06	25°) 44'46	46°04'20	desc. node	1629 Oct 10 00:05	10° M ₁7'05	
-	1627 May 07 00:06	0 ° $\mathbf{\Upsilon}$			1629 Oct 25 23:11	0° ∡ ¹	
	1627 Jun 04 09:38	0°8			1629 Nov 19 08:04	0°రె	
	1627 Jun 30 22:49	\mathfrak{I} 0°			1629 Dec 13 21:42	0° ≈	
	1627 Jul 26 14:25	0ංම			1630 Jan 07 22:46	0° ∀	
asc. node	1627 Aug 16 08:17	24°5649'12		asc. node	1630 Jan 31 03:19	26°) 40′15	
	1627 Aug 20 15:06	$0^{\circ}\Omega$			1630 Feb 03 03:26	0° Y	
	1627 Sep 14 04:08	0° m ∕		evening max el	1630 Feb 21 09:58	19° Y 18'19	46°29'28
	1627 Oct 08 08:37	0∘ 亚			1630 Mar 04 14:57	0° 8	
morning set	1627 Oct 27 05:56	23° ≏ 37'33		greatest brilliancy	1630 Apr 01 12:14	19° 8 07'31	-4.8m
	1627 Nov 01 07:52	0°M₊		retrograde	1630 Apr 12 07:50	21° 8 16'38	
	1627 Nov 25 04:38	0° ∡		evening set	1630 Apr 28 06:18	16° 8 18'34	
desc. node	1627 Dec 05 21:47	13° х 29′02		inferior conj	1630 May 03 15:19	13° 8 00'52	4°19'25
				minimum elong	1630 May 03 23:40	12° 8 47'42	4°17'17
superior conj	1627 Dec 06 09:21	14° ∡ *05'27		min. Earth dist.	1630 May 03 15:58	12° 8 59'51	0.28711 AU
minimum elong	1627 Dec 06 09:03	14° ≯ 04'30	0°01'10	morning rise	1630 May 09 17:27	9° 8 20'04	

desc. node	1630 May 22 16:38	4° 8 54'11		desc. node	1632 Nov 06 12:03	26°M44'56	
direct	1630 May 25 02:00	4° 8 47'26			1632 Nov 09 02:22	0° ⊼	
greatest brilliancy	1630 Jun 04 01:37	6° 8 36'10	-4.7m		1632 Dec 03 01:43	5°0	
	1630 Jul 07 23:09	$\Pi^{\circ}0$			1632 Dec 27 02:16	0° ≈	
morning max el	1630 Jul 12 20:08	4° Ⅱ 33'24	45°43'37		1633 Jan 20 06:21	0° ∀	
	1630 Aug 06 16:50	0 ಲ			1633 Feb 13 18:11	0°Υ	
	1630 Sep 02 11:20	$0^{\circ}\Omega$		asc. node	1633 Feb 27 15:15	16° Υ 42'10	
aga mada	•	12° Ω 05'54		asc. Houc		0° 8	
asc. node	1630 Sep 12 20:15				1633 Mar 10 20:46		
	1630 Sep 27 21:26	0° m			1633 Apr 06 02:57	0°II	
	1630 Oct 22 12:38	0∘ 亚		evening max el	1633 May 03 01:45	28° ∏ 08'18	45°29'59
	1630 Nov 15 17:00	0°M			1633 May 05 00:21	0	
	1630 Dec 09 16:02	0° ⊼		greatest brilliancy	1633 Jun 09 22:48	25° © 59'53	-4.7m
desc. node	1631 Jan 02 09:29	29° ∡ ⁴48'12		desc. node	1633 Jun 19 04:32	28° © 03'44	
	1631 Jan 02 13:14	0°ರ		retrograde	1633 Jun 20 18:27	28° © 06'37	
morning set	1631 Jan 11 04:18	10°る50'28		evening set	1633 Jul 06 07:54	23° © 29'18	
	1631 Jan 26 10:31	0° ≈		inferior conj	1633 Jul 12 06:48	19° © 55'10	-5°04'52
	1631 Feb 19 09:07	0°) {		minimum elong	1633 Jul 11 21:27	20°©09'45	
		• / (min. Earth dist.	1633 Jul 12 06:17	19° © 55'59	0.28986 AU
superior conj	1631 Feb 21 14:58	2°) (48'20	102444	morning rise	1633 Jul 17 10:48	16°5946'41	0.20700 AC
	1631 Feb 21 10:57	2°)(35'48		direct	1633 Aug 02 21:45	11°937'34	
minimum elong					Č		4.7
max. Earth dist.	1631 Feb 25 17:36	7° ¥ 56′29	1.71793 AU	greatest brilliancy	1633 Aug 13 12:39	13°938'43	-4.7m
	1631 Mar 15 10:15	0° Υ			1633 Sep 07 21:27	0 \circ Ω	
evening rise	1631 Apr 02 10:10	22° Y 19'40		morning max el	1633 Sep 21 05:57	12° Ω 16′10	46°09'10
	1631 Apr 08 15:06	$_{0\circ}$ 8			1633 Oct 08 09:37	0° m	
asc. node	1631 Apr 25 13:10	20° 8 50'01		asc. node	1633 Oct 10 08:09	2°Mp06'11	
	1631 May 03 00:32	Π $^{\circ}0$			1633 Nov 03 22:18	0∘ ত	
	1631 May 27 15:08	0 \circ \odot			1633 Nov 29 00:35	0°M₊	
	1631 Jun 21 11:58	$0^{\circ}\Omega$			1633 Dec 23 11:36	0° ∡ ¹	
	1631 Jul 16 17:39	0° m			1634 Jan 16 16:13	6°0	
	1631 Aug 11 13:47	0∘ <u>⊽</u>		desc. node	1634 Jan 29 21:25	16° පි 26'36	
desc. node	1631 Aug 15 02:08	4° ⊆ 00'05		dose. Hode	1634 Feb 09 18:49	0° ≈	
desc. node	1631 Sep 07 12:56	0°M			1634 Mar 05 21:38	0°) €	
evening max el	1631 Sep 27 17:14	20°M50'40	46°41'37	morning set	1634 Mar 27 22:26	27° ₩ 20'32	
evening max er	1631 Oct 07 09:44	20 11 0 30 40	40 41 37	morning set	1634 Mar 30 01:55	0° Υ	
	1031 Oct 07 09.44				1034 Mai 30 01.33		
areatast brillianari	1621 May 07 02:17	200.755146	4 0		1624 Apr. 22 00:10	\sim	
greatest brilliancy	1631 Nov 07 03:17	20° 🖈 55'46	-4.9m		1634 Apr 23 08:19	0° 8	
retrograde	1631 Nov 16 16:58	22° ₹ 38'51	-4.9m		•		0041112
retrograde evening set	1631 Nov 16 16:58 1631 Dec 01 01:08	22° х 38′51 18° х 36′20	-4.9m	superior conj	1634 May 04 23:37	14° 8 20'55	
retrograde evening set asc. node	1631 Nov 16 16:58 1631 Dec 01 01:08 1631 Dec 06 05:37	22° ₹38'51 18° ₹36'20 15° ₹36'38		minimum elong	1634 May 04 23:37 1634 May 05 07:37	14° 8 20'55 14° 8 45'34	0°40'53
retrograde evening set asc. node inferior conj	1631 Nov 16 16:58 1631 Dec 01 01:08 1631 Dec 06 05:37 1631 Dec 07 05:56	22° ₹38'51 18° ₹36'20 15° ₹36'38 14° ₹59'34	0°15'52		1634 May 04 23:37 1634 May 05 07:37 1634 May 06 19:31	14° 8 20'55 14° 8 45'34 16° 8 36'03	
retrograde evening set asc. node inferior conj minimum elong	1631 Nov 16 16:58 1631 Dec 01 01:08 1631 Dec 06 05:37 1631 Dec 07 05:56 1631 Dec 07 05:20	22° 🗷 38'51 18° 🗷 36'20 15° 🗷 36'38 14° 🗷 59'34 15° 🗷 00'30	0°15'52 0°15'39	minimum elong max. Earth dist.	1634 May 04 23:37 1634 May 05 07:37 1634 May 06 19:31 1634 May 17 16:52	14°႘20'55 14°႘35'34 16°႘36'03 0°頂	0°40'53
retrograde evening set asc. node inferior conj	1631 Nov 16 16:58 1631 Dec 01 01:08 1631 Dec 06 05:37 1631 Dec 07 05:56	22° ₹38'51 18° ₹36'20 15° ₹36'38 14° ₹59'34	0°15'52	minimum elong	1634 May 04 23:37 1634 May 05 07:37 1634 May 06 19:31	14° 8 20'55 14° 8 45'34 16° 8 36'03 0°П 6°П33'39	0°40'53
retrograde evening set asc. node inferior conj minimum elong	1631 Nov 16 16:58 1631 Dec 01 01:08 1631 Dec 06 05:37 1631 Dec 07 05:56 1631 Dec 07 05:20	22° 🗷 38'51 18° 🗷 36'20 15° 🗷 36'38 14° 🗷 59'34 15° 🗷 00'30	0°15'52 0°15'39	minimum elong max. Earth dist.	1634 May 04 23:37 1634 May 05 07:37 1634 May 06 19:31 1634 May 17 16:52	14°႘20'55 14°႘35'34 16°႘36'03 0°頂	0°40'53
retrograde evening set asc. node inferior conj minimum elong transit middle	1631 Nov 16 16:58 1631 Dec 01 01:08 1631 Dec 06 05:37 1631 Dec 07 05:56 1631 Dec 07 05:20 1631 Dec 07 05:20	22° 🗷 38'51 18° 🗷 36'20 15° 🗷 36'38 14° 🗷 59'34 15° 🗷 00'30	0°15'52 0°15'39	minimum elong max. Earth dist.	1634 May 04 23:37 1634 May 05 07:37 1634 May 06 19:31 1634 May 17 16:52 1634 May 23 00:56	14° 8 20'55 14° 8 45'34 16° 8 36'03 0°П 6°П33'39	0°40'53
retrograde evening set asc. node inferior conj minimum elong transit middle transit begin	1631 Nov 16 16:58 1631 Dec 01 01:08 1631 Dec 06 05:37 1631 Dec 07 05:56 1631 Dec 07 05:20 1631 Dec 07 05:20 1631 Dec 07 03:52	22° \$\times 38'51 18° \$\times 36'20 15° \$\times 36'38 14° \$\times 59'34 15° \$\times 00'30 15° \$\times 02'44	0°15'52 0°15'39	minimum elong max. Earth dist.	1634 May 04 23:37 1634 May 05 07:37 1634 May 06 19:31 1634 May 17 16:52 1634 May 23 00:56 1634 Jun 10 22:27	14° 8 20'55 14° 8 45'34 16° 8 36'03 0°П 6°П33'39 29°П46'04	0°40'53
retrograde evening set asc. node inferior conj minimum elong transit middle transit begin transit end	1631 Nov 16 16:58 1631 Dec 01 01:08 1631 Dec 06 05:37 1631 Dec 07 05:56 1631 Dec 07 05:20 1631 Dec 07 03:52 1631 Dec 07 03:52 1631 Dec 07 06:48	22° \$\times^3 36'51 18° \$\times^3 36'20 15° \$\times^3 36'38 14° \$\times^5 9'34 15° \$\times^3 00'30 15° \$\times^0 2'44 14° \$\times^5 58'16	0°15'52 0°15'39 0°15'39	minimum elong max. Earth dist.	1634 May 04 23:37 1634 May 05 07:37 1634 May 06 19:31 1634 May 17 16:52 1634 May 23 00:56 1634 Jun 10 22:27 1634 Jun 11 03:00	14° 8 20'55 14° 8 45'34 16° 8 36'03 0°П 6°П33'39 29°П46'04 0°©	0°40'53
retrograde evening set asc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist.	1631 Nov 16 16:58 1631 Dec 01 01:08 1631 Dec 06 05:37 1631 Dec 07 05:56 1631 Dec 07 05:20 1631 Dec 07 05:20 1631 Dec 07 03:52 1631 Dec 07 06:48 1631 Dec 07 05:13	22° \$\stack*38'51 18° \$\ta*36'20 15° \$\ta*36'38 14° \$\ta*59'34 15° \$\ta*00'30 15° \$\ta*02'44 14° \$\ta*58'16 15° \$\ta*00'40	0°15'52 0°15'39 0°15'39	minimum elong max. Earth dist.	1634 May 04 23:37 1634 May 05 07:37 1634 May 06 19:31 1634 May 17 16:52 1634 May 23 00:56 1634 Jun 10 22:27 1634 Jun 11 03:00 1634 Jul 05 14:21 1634 Jul 30 03:18	14°820'55 14°845'34 16°836'03 0°∏ 6°∏33'39 29°∏46'04 0°© 0°Ω	0°40'53
retrograde evening set asc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise	1631 Nov 16 16:58 1631 Dec 01 01:08 1631 Dec 06 05:37 1631 Dec 07 05:56 1631 Dec 07 05:20 1631 Dec 07 05:20 1631 Dec 07 03:52 1631 Dec 07 06:48 1631 Dec 07 05:13 1631 Dec 13 09:24	22° \$\times^3 36'51 18° \$\times^3 36'20 15° \$\times^3 36'38 14° \$\times^5 59'34 15° \$\times^0 00'30 15° \$\times^0 20'44 14° \$\times^5 8'16 15° \$\times^0 00'40 11° \$\times^2 24'32	0°15'52 0°15'39 0°15'39	minimum elong max. Earth dist.	1634 May 04 23:37 1634 May 05 07:37 1634 May 06 19:31 1634 May 17 16:52 1634 May 23 00:56 1634 Jun 10 22:27 1634 Jun 11 03:00 1634 Jul 05 14:21	14°820'55 14°845'34 16°836'03 0° II 6° II 33'39 29° II 46'04 0° © 0° Ω 0° II 0° III	0°40'53
retrograde evening set asc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct	1631 Nov 16 16:58 1631 Dec 01 01:08 1631 Dec 06 05:37 1631 Dec 07 05:56 1631 Dec 07 05:20 1631 Dec 07 05:20 1631 Dec 07 03:52 1631 Dec 07 06:48 1631 Dec 07 05:13 1631 Dec 13 09:24 1631 Dec 27 15:02 1632 Jan 06 17:52	22° \$\times 38'51 18° \$\times 36'20 15° \$\times 36'38 14° \$\times 59'34 15° \$\times 00'30 15° \$\times 00'40 11° \$\times 24'32 7° \$\times 22'40 9° \$\times 18'59	0°15'52 0°15'39 0°15'39 0.26410 AU	minimum elong max. Earth dist. asc. node evening rise	1634 May 04 23:37 1634 May 05 07:37 1634 May 06 19:31 1634 May 17 16:52 1634 May 23 00:56 1634 Jun 10 22:27 1634 Jun 11 03:00 1634 Jul 05 14:21 1634 Jul 30 03:18 1634 Aug 23 19:09 1634 Sep 11 14:14	14°820'55 14°845'34 16°836'03 0° II 6°I33'39 29°I46'04 0° © 0° Ω 0° II 0° № 22° №	0°40'53
retrograde evening set asc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct greatest brilliancy	1631 Nov 16 16:58 1631 Dec 01 01:08 1631 Dec 06 05:37 1631 Dec 07 05:56 1631 Dec 07 05:20 1631 Dec 07 05:20 1631 Dec 07 03:52 1631 Dec 07 06:48 1631 Dec 07 05:13 1631 Dec 13 09:24 1631 Dec 27 15:02 1632 Jan 06 17:52 1632 Feb 05 10:15	18°¾36'38 14°¾59'34 15°¾00'30 15°¾00'30 15°¾02'44 14°¾58'16 15°¾00'40 11°¾24'32 7°¾22'40 9°¾18'59 0°ጜ	0°15'52 0°15'39 0°15'39 0.26410 AU	minimum elong max. Earth dist. asc. node evening rise	1634 May 04 23:37 1634 May 05 07:37 1634 May 06 19:31 1634 May 17 16:52 1634 May 23 00:56 1634 Jun 10 22:27 1634 Jun 11 03:00 1634 Jul 05 14:21 1634 Jul 30 03:18 1634 Aug 23 19:09 1634 Sep 11 14:14 1634 Sep 17 15:48	14°820'55 14°845'34 16°836'03 0° II 6°I33'39 29°I46'04 0° © 0° Ω 0° II 22° № 42'38 0° III	0°40'53
retrograde evening set asc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct	1631 Nov 16 16:58 1631 Dec 01 01:08 1631 Dec 06 05:37 1631 Dec 07 05:56 1631 Dec 07 05:20 1631 Dec 07 05:20 1631 Dec 07 03:52 1631 Dec 07 06:48 1631 Dec 07 05:13 1631 Dec 13 09:24 1631 Dec 27 15:02 1632 Jan 06 17:52 1632 Feb 05 10:15 1632 Feb 15 23:32	18°¾36'38 14°¾59'34 15°¾00'30 15°¾00'30 15°¾00'44 14°¾58'16 15°¾00'40 11°¾24'32 7°¾22'40 9°¾18'59 0°ጜ	0°15'52 0°15'39 0°15'39 0.26410 AU	minimum elong max. Earth dist. asc. node evening rise	1634 May 04 23:37 1634 May 05 07:37 1634 May 06 19:31 1634 May 17 16:52 1634 May 23 00:56 1634 Jun 10 22:27 1634 Jun 11 03:00 1634 Jul 05 14:21 1634 Jul 30 03:18 1634 Aug 23 19:09 1634 Sep 11 14:14 1634 Sep 17 15:48 1634 Oct 12 20:01	14°820'55 14°845'34 16°836'03 0° II 6° II 33'39 29° II 46'04 0° © 0° Ω 0° II 22° Ω42'38 0° II 0° ズ	0°40'53
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retrograde evening set asc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct greatest brilliancy	1631 Nov 16 16:58 1631 Dec 01 01:08 1631 Dec 06 05:37 1631 Dec 07 05:56 1631 Dec 07 05:20 1631 Dec 07 05:20 1631 Dec 07 03:52 1631 Dec 07 06:48 1631 Dec 07 06:48 1631 Dec 13 09:24 1631 Dec 27 15:02 1632 Jan 06 17:52 1632 Feb 05 10:15 1632 Feb 15 23:32 1632 Mar 05 19:55 1632 Mar 26 19:09	18° ¾36'30 15° ¾36'38 14° ¾59'34 15° ¾00'30 15° ¾00'30 15° ¾02'44 14° ¾58'16 15° ¾00'40 11° ¾24'32 7° ¾22'40 9° ¾18'59 0° ♂ 10° ♂10'11 0° ≈ 23° ≈29'36	0°15'52 0°15'39 0°15'39 0.26410 AU	minimum elong max. Earth dist. asc. node evening rise desc. node	1634 May 04 23:37 1634 May 05 07:37 1634 May 06 19:31 1634 May 17 16:52 1634 May 23 00:56 1634 Jun 10 22:27 1634 Jun 11 03:00 1634 Jul 05 14:21 1634 Jul 30 03:18 1634 Aug 23 19:09 1634 Sep 11 14:14 1634 Sep 17 15:48 1634 Oct 12 20:01 1634 Nov 07 14:17 1634 Dec 04 19:21	14°820'55 14°845'34 16°836'03 0°	0°40'53 1.73270 AU
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retrograde evening set asc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct greatest brilliancy morning max el	1631 Nov 16 16:58 1631 Dec 01 01:08 1631 Dec 06 05:37 1631 Dec 07 05:56 1631 Dec 07 05:20 1631 Dec 07 05:20 1631 Dec 07 05:20 1631 Dec 07 05:21 1631 Dec 07 06:48 1631 Dec 07 05:13 1631 Dec 13 09:24 1631 Dec 27 15:02 1632 Jan 06 17:52 1632 Feb 05 10:15 1632 Feb 15 23:32 1632 Mar 05 19:55 1632 Mar 26 19:09 1632 Apr 01 11:13 1632 Apr 27 03:54	18° ¾38'51 18° ¾36'38 14° ¾59'34 15° ¾00'30 15° ¾00'30 15° ¾02'44 14° ¾58'16 15° ¾00'40 11° ¾24'32 7° ¾22'40 9° ¾18'59 0° ♂ 10° ♂10'11 0° ≈ 23° ≈29'36 0° 升 0° Υ	0°15'52 0°15'39 0°15'39 0.26410 AU	minimum elong max. Earth dist. asc. node evening rise desc. node	1634 May 04 23:37 1634 May 05 07:37 1634 May 06 19:31 1634 May 17 16:52 1634 May 23 00:56 1634 Jun 10 22:27 1634 Jun 11 03:00 1634 Jul 05 14:21 1634 Jul 30 03:18 1634 Aug 23 19:09 1634 Sep 11 14:14 1634 Sep 17 15:48 1634 Oct 12 20:01 1634 Nov 07 14:17 1634 Dec 04 19:21 1634 Dec 09 07:54 1635 Jan 02 17:32	14°820'55 14°845'34 16°836'03 0°用 6°用33'39 29°用46'04 0°© 0°凡 0°№ 0°№ 0°№ 0°№ 10°% 0°% 0°% 0°% 0°% 0°% 0°% 0°% 0°% 0°%	0°40'53 1.73270 AU
retrograde evening set asc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct greatest brilliancy morning max el	1631 Nov 16 16:58 1631 Dec 01 01:08 1631 Dec 06 05:37 1631 Dec 07 05:56 1631 Dec 07 05:20 1631 Dec 07 05:20 1631 Dec 07 05:20 1631 Dec 07 05:48 1631 Dec 07 06:48 1631 Dec 07 05:13 1631 Dec 13 09:24 1631 Dec 27 15:02 1632 Jan 06 17:52 1632 Feb 05 10:15 1632 Feb 15 23:32 1632 Mar 05 19:55 1632 Mar 26 19:09 1632 Apr 01 11:13 1632 Apr 27 03:54 1632 May 22 10:14	22°水38'51 18°水36'20 15°水36'38 14°水59'34 15°水00'30 15°水00'44 14°水58'16 15°水00'40 11°水24'32 7°水22'40 9°水18'59 0°उ 10°♂10'11 0°≈ 23°≈29'36 0°升 0°Y	0°15'52 0°15'39 0°15'39 0.26410 AU	minimum elong max. Earth dist. asc. node evening rise desc. node evening max el asc. node	1634 May 04 23:37 1634 May 05 07:37 1634 May 06 19:31 1634 May 17 16:52 1634 May 23 00:56 1634 Jun 10 22:27 1634 Jun 11 03:00 1634 Jul 05 14:21 1634 Jul 30 03:18 1634 Aug 23 19:09 1634 Sep 11 14:14 1634 Sep 17 15:48 1634 Oct 12 20:01 1634 Nov 07 14:17 1634 Dec 04 19:21 1634 Dec 09 07:54 1635 Jan 02 17:32 1635 Jan 07 01:32	14°820'55 14°845'34 16°836'03 0°	0°40'53 1.73270 AU 47°19'38
retrograde evening set asc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct greatest brilliancy morning max el	1631 Nov 16 16:58 1631 Dec 01 01:08 1631 Dec 06 05:37 1631 Dec 07 05:56 1631 Dec 07 05:56 1631 Dec 07 05:20 1631 Dec 07 05:20 1631 Dec 07 05:22 1631 Dec 07 06:48 1631 Dec 07 05:13 1631 Dec 13 09:24 1631 Dec 27 15:02 1632 Jan 06 17:52 1632 Feb 05 10:15 1632 Feb 15 23:32 1632 Mar 05 19:55 1632 Mar 26 19:09 1632 Apr 01 11:13 1632 Apr 27 03:54 1632 May 22 10:14 1632 Jun 16 10:17	22°水38'51 18°水36'20 15°水36'38 14°水59'34 15°水00'30 15°水00'30 15°水02'44 14°水58'16 15°水00'40 11°水24'32 7°水22'40 9°水18'59 0°云 10°云10'11 0°≈ 23°≈29'36 0°升 0°Y 0°出	0°15'52 0°15'39 0°15'39 0.26410 AU	minimum elong max. Earth dist. asc. node evening rise desc. node evening max el asc. node greatest brilliancy	1634 May 04 23:37 1634 May 05 07:37 1634 May 06 19:31 1634 May 17 16:52 1634 May 23 00:56 1634 Jun 10 22:27 1634 Jun 11 03:00 1634 Jul 05 14:21 1634 Jul 30 03:18 1634 Aug 23 19:09 1634 Sep 11 14:14 1634 Sep 17 15:48 1634 Oct 12 20:01 1634 Dec 04 19:21 1634 Dec 09 07:54 1635 Jan 02 17:32 1635 Jan 07 01:32 1635 Jan 18 23:37	14°820'55 14°845'34 16°836'03 0°用 6°用33'39 29°用46'04 0°⑤ 0°和 0°№ 0°№ 22° \$\textit{24'38}\$ 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0°	0°40'53 1.73270 AU 47°19'38
retrograde evening set asc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct greatest brilliancy morning max el	1631 Nov 16 16:58 1631 Dec 01 01:08 1631 Dec 06 05:37 1631 Dec 07 05:56 1631 Dec 07 05:20 1631 Dec 07 05:20 1631 Dec 07 05:20 1631 Dec 07 05:48 1631 Dec 07 06:48 1631 Dec 07 05:13 1631 Dec 13 09:24 1631 Dec 27 15:02 1632 Jan 06 17:52 1632 Feb 05 10:15 1632 Feb 15 23:32 1632 Mar 05 19:55 1632 Mar 26 19:09 1632 Apr 01 11:13 1632 Apr 27 03:54 1632 May 22 10:14	22°水38'51 18°水36'20 15°水36'38 14°水59'34 15°水00'30 15°水00'44 14°水58'16 15°水00'40 11°水24'32 7°水22'40 9°水18'59 0°उ 10°♂10'11 0°≈ 23°≈29'36 0°升 0°Y	0°15'52 0°15'39 0°15'39 0.26410 AU	minimum elong max. Earth dist. asc. node evening rise desc. node evening max el asc. node	1634 May 04 23:37 1634 May 05 07:37 1634 May 06 19:31 1634 May 17 16:52 1634 May 23 00:56 1634 Jun 10 22:27 1634 Jun 11 03:00 1634 Jul 05 14:21 1634 Jul 30 03:18 1634 Aug 23 19:09 1634 Sep 11 14:14 1634 Sep 17 15:48 1634 Oct 12 20:01 1634 Nov 07 14:17 1634 Dec 04 19:21 1634 Dec 09 07:54 1635 Jan 02 17:32 1635 Jan 07 01:32	14° と 20'55 14° と 45'34 16° と 36'03 0°耳 6°耳33'39 29°耳46'04 0°⑤ 0°Ω 0°Ω 0°™ 0°Ω 0°™ 0°¾ 0°% 4°≈40'26 26°≈52'44 0°米 6° 光 27'10 8° 光 31'26	0°40'53 1.73270 AU 47°19'38
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retrograde evening set asc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct greatest brilliancy morning max el desc. node asc. node morning set max. Earth dist.	1631 Nov 16 16:58 1631 Dec 01 01:08 1631 Dec 06 05:37 1631 Dec 07 05:56 1631 Dec 07 05:56 1631 Dec 07 05:20 1631 Dec 07 05:20 1631 Dec 07 05:22 1631 Dec 07 06:48 1631 Dec 07 05:13 1631 Dec 13 09:24 1631 Dec 27 15:02 1632 Jan 06 17:52 1632 Feb 05 10:15 1632 Feb 15 23:32 1632 Mar 05 19:55 1632 Mar 26 19:09 1632 Apr 01 11:13 1632 Apr 27 03:54 1632 May 22 10:14 1632 Jun 16 10:17 1632 Jul 11 04:47 1632 Jul 17 22:30 1632 Aug 04 17:23 1632 Aug 14 09:11 1632 Aug 29 00:20 1632 Sep 16 18:24	22°水38'51 18°水36'20 15°水36'38 14°水59'34 15°水00'30 15°水00'30 15°水02'44 14°水58'16 15°水00'40 11°水24'32 7°水22'40 9°水18'59 0°उ 10°उ10'11 0°≈ 23°≈29'36 0°升 0°Y 0°Ы 0°П 0°© 8°©12'50 0°П 0°© 8°©12'50 0°П 23°№19'12 27°№37'43 27°№51'44	0°15'52 0°15'39 0°15'39 0.26410 AU -4.9m 46°48'06	minimum elong max. Earth dist. asc. node evening rise desc. node evening max el asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	1634 May 04 23:37 1634 May 05 07:37 1634 May 06 19:31 1634 May 17 16:52 1634 May 23 00:56 1634 Jun 10 22:27 1634 Jun 11 03:00 1634 Jul 05 14:21 1634 Jul 30 03:18 1634 Aug 23 19:09 1634 Sep 11 14:14 1634 Sep 17 15:48 1634 Oct 12 20:01 1634 Nov 07 14:17 1634 Dec 04 19:21 1634 Dec 09 07:54 1635 Jan 02 17:32 1635 Jan 07 01:32 1635 Jan 18 23:37 1635 Jan 29 08:40 1635 Feb 18 10:57 1635 Feb 19 05:42 1635 Feb 19 01:32 1635 Feb 19 02:48 1635 Feb 22 06:12 1635 Mar 11 22:00 1635 Mar 20 22:39	14° と 20'55 14° と 45'34 16° と 36'03 0°用 6°用33'39 29°用46'04 0°⑤ 0°凡 0°№ 0°№ 0°№ 0°№ 0°% 0°% 0°% 0°% 0°% 0°% 0°% 0°% 0°% 0°%	0°40'53 1.73270 AU 47°19'38 -4.9m 0.27540 AU 8°39'01 8°38'45
retrograde evening set asc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct greatest brilliancy morning max el desc. node asc. node morning set max. Earth dist. superior conj	1631 Nov 16 16:58 1631 Dec 01 01:08 1631 Dec 06 05:37 1631 Dec 07 05:56 1631 Dec 07 05:56 1631 Dec 07 05:20 1631 Dec 07 05:20 1631 Dec 07 05:22 1631 Dec 07 06:48 1631 Dec 07 05:13 1631 Dec 13 09:24 1631 Dec 27 15:02 1632 Jan 06 17:52 1632 Feb 05 10:15 1632 Feb 15 23:32 1632 Mar 05 19:55 1632 Mar 26 19:09 1632 Apr 01 11:13 1632 Apr 27 03:54 1632 May 22 10:14 1632 Jun 16 10:17 1632 Jul 17 04:47 1632 Jul 17 22:30 1632 Aug 04 17:23 1632 Aug 14 09:11 1632 Aug 29 00:20 1632 Sep 16 18:24 1632 Sep 20 05:19 1632 Sep 20 05:19 1632 Sep 20 05:19 1632 Sep 20 05:19 1632 Sep 20 05:57	22°水38'51 18°水36'20 15°水36'38 14°水59'34 15°水00'30 15°水00'30 15°水02'44 14°水58'16 15°水00'40 11°水24'32 7°水22'40 9°水18'59 0°उ 10°उ10'11 0°≈ 23°≈29'36 0°升 0°野 0°耳 0°野 11°053'51 0°෩ 23°™19'12 27°™37'43 27°™51'44 0°Ω	0°15'52 0°15'39 0°15'39 0.26410 AU -4.9m 46°48'06	minimum elong max. Earth dist. asc. node evening rise desc. node evening max el asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	1634 May 04 23:37 1634 May 05 07:37 1634 May 06 19:31 1634 May 17 16:52 1634 May 23 00:56 1634 Jun 10 22:27 1634 Jun 11 03:00 1634 Jul 05 14:21 1634 Jul 30 03:18 1634 Aug 23 19:09 1634 Sep 11 14:14 1634 Sep 17 15:48 1634 Oct 12 20:01 1634 Nov 07 14:17 1634 Dec 04 19:21 1634 Dec 09 07:54 1635 Jan 02 17:32 1635 Jan 07 01:32 1635 Jan 18 23:37 1635 Jan 29 08:40 1635 Feb 15 21:06 1635 Feb 18 10:57 1635 Feb 19 01:32 1635 Feb 19 02:48 1635 Feb 22 06:12 1635 Mar 11 22:00 1635 Mar 20 22:39 1635 Apr 02 00:21	14°820'55 14°845'34 16°836'03 0°用 6°用33'39 29°用46'04 0°⑤ 0°和 0°№ 0°№ 0°№ 0°% 0°% 0°% 0°% 0°% 0°% 0°% 0°% 0°% 0°%	0°40'53 1.73270 AU 47°19'38 -4.9m 0.27540 AU 8°39'01 8°38'45
retrograde evening set asc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct greatest brilliancy morning max el desc. node asc. node morning set max. Earth dist. superior conj	1631 Nov 16 16:58 1631 Dec 01 01:08 1631 Dec 06 05:37 1631 Dec 07 05:56 1631 Dec 07 05:56 1631 Dec 07 05:20 1631 Dec 07 05:20 1631 Dec 07 05:22 1631 Dec 07 06:48 1631 Dec 07 05:13 1631 Dec 13 09:24 1631 Dec 27 15:02 1632 Jan 06 17:52 1632 Feb 05 10:15 1632 Feb 15 23:32 1632 Mar 05 19:55 1632 Mar 26 19:09 1632 Apr 01 11:13 1632 Apr 27 03:54 1632 May 22 10:14 1632 Jun 16 10:17 1632 Jul 11 04:47 1632 Jul 17 22:30 1632 Aug 04 17:23 1632 Aug 14 09:11 1632 Aug 29 00:20 1632 Sep 16 18:24	22°水38'51 18°水36'20 15°水36'38 14°水59'34 15°水00'30 15°水00'30 15°水02'44 14°水58'16 15°水00'40 11°水24'32 7°水22'40 9°水18'59 0°उ 10°उ10'11 0°≈ 23°≈29'36 0°升 0°Y 0°Ы 0°П 0°© 8°©12'50 0°П 0°© 8°©12'50 0°П 23°№19'12 27°№37'43 27°№51'44	0°15'52 0°15'39 0°15'39 0.26410 AU -4.9m 46°48'06	minimum elong max. Earth dist. asc. node evening rise desc. node evening max el asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	1634 May 04 23:37 1634 May 05 07:37 1634 May 06 19:31 1634 May 17 16:52 1634 May 23 00:56 1634 Jun 10 22:27 1634 Jun 11 03:00 1634 Jul 05 14:21 1634 Jul 30 03:18 1634 Aug 23 19:09 1634 Sep 11 14:14 1634 Sep 17 15:48 1634 Oct 12 20:01 1634 Nov 07 14:17 1634 Dec 04 19:21 1634 Dec 09 07:54 1635 Jan 02 17:32 1635 Jan 07 01:32 1635 Jan 18 23:37 1635 Jan 29 08:40 1635 Feb 18 10:57 1635 Feb 19 05:42 1635 Feb 19 01:32 1635 Feb 19 02:48 1635 Feb 22 06:12 1635 Mar 11 22:00 1635 Mar 20 22:39	14° と 20'55 14° と 45'34 16° と 36'03 0°用 6°用33'39 29°用46'04 0°⑤ 0°凡 0°№ 0°№ 0°№ 0°№ 0°% 0°% 0°% 0°% 0°% 0°% 0°% 0°% 0°% 0°%	0°40'53 1.73270 AU 47°19'38 -4.9m 0.27540 AU 8°39'01 8°38'45

	1635 May 06 21:03	$0^{\circ}\mathbf{\Upsilon}$			1637 Oct 25 10:42	0° ∡ ¹	
	1635 Jun 04 00:59	0°8			1637 Nov 18 20:06	0°ಕ	
	1635 Jun 30 11:57	$\Pi^{\circ}0$			1637 Dec 13 10:29	0° ≈	
	1635 Jul 26 02:24	0ංම			1638 Jan 07 12:52	0° ∺	
asc. node	1635 Aug 15 10:26	24°521'04		asc. node	1638 Jan 30 05:24	26°) €00'02	
	1635 Aug 20 02:28	0° N			1638 Feb 02 20:32	0° Υ 17° Υ 01'13	46021145
	1635 Sep 13 15:11 1635 Oct 07 19:32	0 ்⊽ 0° மி		evening max el	1638 Feb 19 00:45	0° 8	46°31'45
morning set	1635 Oct 07 19:32 1635 Oct 24 19:46	0 ≗ 21° ₽ 16'26		greatest brilliancy	1638 Mar 04 18:54 1638 Mar 30 05:51	16° 8 57'41	-4.8m
morning set	1635 Oct 31 18:44	0°M		retrograde	1638 Apr 09 23:43	19° 8 05'24	-4.0111
	1635 Nov 24 15:31	0° ⊼		evening set	1638 Apr 26 00:56	14° 8 04'09	
	1030 1101 21 10.51			inferior conj	1638 May 01 07:25	10° 8 49'55	4°36'54
superior conj	1635 Dec 03 19:41	11° ∡ ³32'32	0°02'50	minimum elong	1638 May 01 16:07	10° 8 36'10	
minimum elong	1635 Dec 03 20:26	11° ∡ ³34'53	0°02'48	min. Earth dist.	1638 May 01 08:08	10° 8 48'47	0.28688 AU
behind sun begin	1635 Dec 02 18:29	10° ∡ 13'15		morning rise	1638 May 07 07:41	7° 8 11'19	
behind sun end	1635 Dec 04 22:23	12° ∡ 56'31		desc. node	1638 May 21 18:34	2° 8 38'03	
max. Earth dist.	1635 Dec 03 18:54	11° ∡ ³30′02	1.71095 AU	direct	1638 May 22 17:35	2° 8 36'59	
desc. node	1635 Dec 04 23:45	13° ∡ 00'51		greatest brilliancy	1638 Jun 01 16:39	4° 8 24'57	-4.7m
	1635 Dec 18 11:42	0°₹			1638 Jul 07 23:08	$\Pi^{\circ}0$	
	1636 Jan 11 08:27	0° ≈		morning max el	1638 Jul 10 10:41	2° Ⅱ 20′32	45°43'29
evening rise	1636 Jan 14 08:32	3° ≈ 46'14			1638 Aug 06 08:47	0ංම	
	1636 Feb 04 07:06	0° ∀			1638 Sep 02 00:40	0°N	
	1636 Feb 28 09:35	0° Υ		asc. node	1638 Sep 11 22:20	11° Ω 34'28	
asc. node	1636 Mar 23 18:30 1636 Mar 27 03:18	0°8 4°806'34			1638 Sep 27 09:35	0 ்⊽ 0° மி	
asc. node	1636 Apr 17 12:55	4 3 00 34 0° Ⅱ			1638 Oct 22 00:12 1638 Nov 15 04:14	0°M	
	1636 May 12 21:12	0°©			1638 Dec 09 03:06	0° ⊼ 7	
	1636 Jun 08 04:04	0°Ω		desc. node	1639 Jan 01 11:34	29° х 20'24	
	1636 Jul 06 09:57	0° m/p		dese. Hode	1639 Jan 02 00:10	0°ਰ	
evening max el	1636 Jul 13 04:52	6° mp 38'08	45°34'30	morning set	1639 Jan 08 14:10	8° ਰ 16'29	
desc. node	1636 Jul 16 16:26	9° m 54'47		C	1639 Jan 25 21:21	0° ≈	
	1636 Aug 11 07:42	0∘ ⊽			1639 Feb 18 19:53	0°) €	
greatest brilliancy	1636 Aug 21 13:29	4° £ 44'37	-4.8m				
retrograde	1636 Aug 30 22:52	6° ≙ 19'49		superior conj	1639 Feb 19 02:42	0° ∺ 21′20	-1°24'00
evening set	1636 Sep 17 19:41	0° £ 23′00		minimum elong	1639 Feb 18 21:43	0°) €05'44	
	1636 Sep 18 11:04	30°R, Mp		max. Earth dist.	1639 Feb 23 04:33		1.71741 AU
inferior conj	1636 Sep 21 00:21	28° m 26'26			1639 Mar 14 20:59	0° Υ	
minimum elong	1636 Sep 21 05:17	28° m 18'50		evening rise	1639 Mar 30 23:58	20° Y 00'33	
min. Earth dist.	1636 Sep 21 19:34 1636 Sep 24 14:42	26° Mp 15'13	0.27991 AU	asc. node	1639 Apr 08 01:52 1639 Apr 24 15:06	0° と 20° と 22'42	
morning rise direct	1636 Oct 12 05:44	20° m/22'51		asc. Houe	1639 May 02 11:26	0°II	
greatest brilliancy	1636 Oct 23 07:40	22° m/40'24	-4 9m		1639 May 27 02:17	0°©	
greatest similare)	1636 Nov 05 08:05	0ಂ ರ ಬೆ ೧೦೯	,		1639 Jun 20 23:38	$0^{\circ}\Omega$	
asc. node	1636 Nov 06 19:47	1° ≏ 04'10			1639 Jul 16 06:15	0° m)	
morning max el	1636 Dec 01 21:16	23° ≏ 33'26	46°50'21		1639 Aug 11 04:07	0∘ ⊽	
	1636 Dec 08 02:12	0°M		desc. node	1639 Aug 14 04:18	3° ≏ 24'46	
	1637 Jan 03 23:54	0° ∡ ¹			1639 Sep 07 06:54	0°M₊	
	1637 Jan 29 09:47	0°₹		evening max el	1639 Sep 25 05:09	18°M24'37	46°39'10
	1637 Feb 23 06:14	0° ≈			1639 Oct 07 15:33	0° ∡ ¹	
desc. node	1637 Feb 26 09:19	3°≈48'09		greatest brilliancy	1639 Nov 04 16:55	18° ∡ 28'45	-4.9m
	1637 Mar 19 21:17	0° ∀		retrograde	1639 Nov 14 04:41	20°×10'28	
	1637 Apr 13 10:26	0°Υ •••		evening set	1639 Nov 28 14:01	16° 🗷 06'45	0000150
	1637 May 07 23:11	0°H 0°S		inferior conj	1639 Dec 04 18:06	12° 🗷 31'33	
morning set	1637 Jun 01 11:37 1637 Jun 05 09:36	0 Ⅱ 4°Ⅱ47'39		minimum elong transit middle	1639 Dec 04 18:26 1639 Dec 04 18:26	12° 尽 31'02 12° 尽 31'02	
asc. node	1637 Jun 19 12:42	22° I I06'37		transit iniquic	1639 Dec 04 14:57	12° 🗷 31°02	0 00 44
use. Hode	1637 Jun 25 22:59	0°9		transit end	1639 Dec 04 21:55	12° × 3020	
max. Earth dist.	1637 Jul 09 18:42		1.73484 AU	min. Earth dist.	1639 Dec 04 19:18		0.26419 AU
	-		-	asc. node	1639 Dec 05 07:39	12° х 10′55	
superior conj	1637 Jul 11 20:43	19° © 32'59	0°49'44	morning rise	1639 Dec 10 22:35	8° ₹ 55'11	
minimum elong	1637 Jul 11 12:26	19° © 07'32	0°49'24	direct	1639 Dec 25 02:48	4° ₰ 54'01	
	1637 Jul 20 08:21	$0^{\circ}\Omega$		greatest brilliancy	1640 Jan 04 08:30	6° ₹ 52'52	-4.9m
	1637 Aug 13 15:35	0° m			1640 Feb 05 13:51	0°ප	
evening rise	1637 Aug 16 17:03	3° mp 47'05		morning max el	1640 Feb 13 12:24	7° る 44'34	46°49'21
	1637 Sep 06 21:34	0∘ 亚			1640 Mar 05 13:23	0°≈	
1 1	1637 Oct 01 03:35	0°M		desc. node	1640 Mar 25 21:14	22°≈53'20	
desc. node	1637 Oct 09 02:10	9° ™ 48'41			1640 Apr 01 01:27	0° ∀	

	1640 Apr 26 16:35	$0^{\circ}\mathbf{\Upsilon}$		asc. node	1643 Jan 01 19:41	25° ≈ 35'46	
	1640 May 21 22:02	9° 8			1643 Jan 08 09:33	0°) €	
	1640 Jun 15 21:33	$\Pi^{\circ}0$		greatest brilliancy	1643 Jan 16 13:27	4°) €02'46	-4.9m
	1640 Jul 10 15:41	0 \circ \odot		retrograde	1643 Jan 26 23:33	6°) €07'38	
asc. node	1640 Jul 17 00:39	7° 5 46'16		evening set	1643 Feb 13 08:13	0° ℋ 12'10	
	1640 Aug 04 04:06	$0^{\circ}\Omega$			1643 Feb 13 16:16	30° R ≈	
morning set	1640 Aug 12 02:23	9° Ω 45'50		min. Earth dist.	1643 Feb 15 23:42	28° ≈ 34′29	0.27479 AU
	1640 Aug 28 10:59	0° ™		inferior conj	1643 Feb 16 19:30	28° ≈ 03'35	8°34'28
max. Earth dist.	1640 Sep 14 12:13	21° m 11'47	1.72274 AU	minimum elong	1643 Feb 16 14:33	28° ≈ 11'18	8°34'06
				morning rise	1643 Feb 19 21:09	26° ≈ 10′08	
superior conj	1640 Sep 17 21:11	25° m 24'07		direct	1643 Mar 09 11:49	20°≈11'43	
minimum elong	1640 Sep 18 00:58	25° m 35'54	1°23'09	greatest brilliancy	1643 Mar 18 10:44	21° ≈ 42'37	-4.8m
	1640 Sep 21 13:40	0∘ ⊽			1643 Apr 03 02:34	0°) €	
	1640 Oct 15 13:59	0°M		desc. node	1643 Apr 23 08:49	16° 米 53′05	
evening rise	1640 Oct 26 10:02	13°M33'26		morning max el	1643 Apr 27 22:03	21° ¥ 13'38	46°07'12
desc. node	1640 Nov 05 13:58	26°M16'30			1643 May 06 17:20	0° Υ	
	1640 Nov 08 13:25	0° ∡ ¹			1643 Jun 03 16:07	0° 8	
	1640 Dec 02 12:56	0°ರ			1643 Jun 30 00:59	∏ °0	
	1640 Dec 26 13:42	0° ≈			1643 Jul 25 14:23	0°©	
	1641 Jan 19 18:04	0°) €		asc. node	1643 Aug 14 12:28	23° © 52'23	
	1641 Feb 13 06:26	0° Υ			1643 Aug 19 13:55	0 $^{\circ}$ Ω	
asc. node	1641 Feb 26 17:23	16° Ƴ 10'39			1643 Sep 13 02:21	0° m y	
	1641 Mar 10 10:04	0°B			1643 Oct 07 06:36	0∘ ত	
	1641 Apr 05 18:37	0°II		morning set	1643 Oct 22 09:35	18° ≙ 54'49	
evening max el	1641 Apr 30 17:34	25° ∏ 57'57	45°31'11		1643 Oct 31 05:46	0°M	
	1641 May 04 23:28	0.20			1643 Nov 24 02:35	0°⊀	
greatest brilliancy	1641 Jun 07 13:44	23°950'14	-4.7m				
retrograde	1641 Jun 18 11:19	25°958'37		superior conj	1643 Dec 01 06:03	8° 🖈 59'18	0°06'47
desc. node	1641 Jun 18 06:38	25°958'34		minimum elong	1643 Dec 01 07:50	9° ∡ 04'53	0°06'41
evening set	1641 Jul 03 22:17	21°523'26	10.1010.6	behind sun begin	1643 Nov 30 07:43	7°× 7 49'03	
inferior conj	1641 Jul 09 23:08	17°5946'35		behind sun end	1643 Dec 02 07:56	10° ₹ 20'44	1 71100 411
minimum elong	1641 Jul 09 14:05	18°900'42	4°46'23	max. Earth dist.	1643 Dec 01 01:34	8° ∡ 745'11	1.71108 AU
min. Earth dist.	1641 Jul 09 22:08	17°5548'08	0.28994 AU	desc. node	1643 Dec 04 01:51	12° ₹ 32'32	
morning rise	1641 Jul 15 05:43	14°934'39			1643 Dec 17 22:48	0°る 0°≈	
direct greatest brilliancy	1641 Jul 31 14:19	9° © 28'48 11° © 29'43	4.7	avanina rica	1644 Jan 10 19:38	0°≈ 1°≈11'30	
greatest offinancy	1641 Aug 11 04:35 1641 Sep 08 01:53	11 2 2943	-4.7m	evening rise	1644 Jan 11 18:25 1644 Feb 03 18:22	0° ∺	
morning max el	1641 Sep 18 22:21	10° Ω 05'34	46°07'41		1644 Feb 27 20:58	0°Υ	
morning max er	1641 Oct 08 02:43	0° Mp	40 0/41		1644 Mar 23 06:07	0°8	
asc. node	1641 Oct 08 02.43	1° Mp 25'42		asc. node	1644 Mar 26 05:15	3° 8 36'57	
asc. Houc	1641 Nov 03 12:22	0° ⊡		asc. Houc	1644 Apr 17 01:02	0°II	
	1641 Nov 28 13:22	0° m .			1644 May 12 10:17	0°©	
	1641 Dec 22 23:41	0° ⊼ ¹			1644 Jun 07 19:17	0°Ω	
	1642 Jan 16 03:52	°ੇਂਤ			1644 Jul 06 06:49	0° m)	
desc. node	1642 Jan 28 23:29	0 3 15° る 57'15		evening max el	1644 Jul 10 19:24	4° m) 23'23	45°32'59
dese. node	1642 Feb 09 06:10	0°≈		desc. node	1644 Jul 15 18:32	9° mp 02'01	.0 3203
	1642 Mar 05 08:43	0°) €		dose. node	1644 Aug 13 02:50	0∘ ⊽	
morning set	1642 Mar 25 12:43	25°) €02'14		greatest brilliancy	1644 Aug 19 02:50	2° ≏ 27'47	-4.8m
5	1642 Mar 29 12:47	0°Υ		retrograde	1644 Aug 28 12:13	4° Ω 02'56	
	1642 Apr 22 19:03	0°8		C	1644 Sep 12 01:07	30°R M⊅	
		=		evening set	1644 Sep 15 11:08	28° m 04'15	
superior conj	1642 May 02 16:18	12° 8 11'32	-0°44'06	inferior conj	1644 Sep 18 14:49	26° m 08'55	-8°35'37
minimum elong	1642 May 03 00:44	12° 8 37'31	0°43'44	minimum elong	1644 Sep 18 18:57	26° Mp 02'32	
max. Earth dist.	1642 May 04 16:08	14° 8 38'52	1.73235 AU	min. Earth dist.	1644 Sep 19 09:34	25° m 39'59	0.28055 AU
	1642 May 17 03:31	0°II		morning rise	1644 Sep 22 02:33	24° Mp 01'11	
asc. node	1642 May 22 02:58	6° Ⅱ 07'07		direct	1644 Oct 09 20:37	18° Mp 04'29	
evening rise	1642 Jun 08 17:12	27° Ⅱ 43'31		greatest brilliancy	1644 Oct 20 22:30	20°m/21'09	-4.9m
	1642 Jun 10 13:43	0ಂತಾ		asc. node	1644 Nov 05 21:49	29° m 49'43	
	1642 Jul 05 01:15	$0^{\circ}\Omega$			1644 Nov 06 03:14	0∘ ⊽	
	1642 Jul 29 14:33	0° m		morning max el	1644 Nov 29 10:43	21° ≏ 08'35	46°49'17
	1642 Aug 23 06:55	0० ⊽			1644 Dec 07 22:14	0° M.	
desc. node	1642 Sep 10 16:14	22° ≏ 11'38			1645 Jan 03 15:28	0° ∡ 7	
	1642 Sep 17 04:21	0°M₊			1645 Jan 28 23:30	0°ප	
	1642 Oct 12 09:49	0° ∡ ″			1645 Feb 22 18:55	0° ≈	
	1642 Nov 07 06:20	0°ප		desc. node	1645 Feb 25 11:21	3° ≈ 16′00	
	1642 Dec 04 16:46	0° ≈			1645 Mar 19 09:19	0° ∀	
evening max el	1642 Dec 06 23:22	2° ≈ 20′02	47°19'48		1645 Apr 12 22:00	0 ° Υ	

	164534 05 10 04	2011			1645 00 0645	100 3000	0000101
	1645 May 07 10:24	0°8		inferior conj	1647 Dec 02 06:15	10° ₹ 02'36	
	1645 May 31 22:36	$\Pi^{\circ}0$		minimum elong	1647 Dec 02 07:33	10° ∡ ′00′38	0°33'06
morning set	1645 Jun 03 03:41	2° Ⅱ 42'30		min. Earth dist.	1647 Dec 02 09:05	9° ≯ 58'18	0.26441 AU
asc. node	1645 Jun 18 14:53	21° Ⅱ 39'57		asc. node	1647 Dec 04 09:48	8° ∡ ¹44'41	
	1645 Jun 25 09:50	0ಂ ತಾ		morning rise	1647 Dec 08 11:36	6° ∡ ¹25'22	
max. Earth dist.	1645 Jul 07 14:29	14° © 59'08	1.73501 AU	direct	1647 Dec 22 15:14	2° ∡ ¹24'18	
				greatest brilliancy	1648 Jan 01 22:55	4° ∡ ¹25'22	-4.9m
superior conj	1645 Jul 09 15:24	17° © 29'34	0°47'11		1648 Feb 05 16:30	0°ჳ	
minimum elong	1645 Jul 09 07:21	17° © 04'49	0°46'51	morning max el	1648 Feb 11 02:25	5° る 20'15	46°50'22
	1645 Jul 19 19:11	$0^{\circ}\Omega$			1648 Mar 05 07:03	0° ≈	
	1645 Aug 13 02:31	0° m		desc. node	1648 Mar 24 23:13	22°≈15'25	
evening rise	1645 Aug 14 11:13	1° m)41'04		desc. node	1648 Mar 31 16:03	0°) €	
evening rise	Č	•				0 K 0°Υ	
	1645 Sep 06 08:43	0° ∵			1648 Apr 26 05:39		
	1645 Sep 30 15:04	0°M			1648 May 21 10:12	0°8	
desc. node	1645 Oct 08 04:08	9°M18'56			1648 Jun 15 09:08	Π °0	
	1645 Oct 24 22:38	0° ⊼			1648 Jul 10 02:55	0 \circ	
	1645 Nov 18 08:36	0°ප		asc. node	1648 Jul 16 02:40	7° ॐ 18'18	
	1645 Dec 12 23:46	0° ≈			1648 Aug 03 15:08	$0^{\circ}\Omega$	
	1646 Jan 07 03:34	0° ∀		morning set	1648 Aug 09 19:47	7° Ω 37'32	
asc. node	1646 Jan 29 07:28	25°) 18′02		Ü	1648 Aug 27 21:57	0° m)	
	1646 Feb 02 14:28	0° Υ		max. Earth dist.	1648 Sep 12 05:48	19° m) 02'54	1.72321 AU
evening max el	1646 Feb 16 14:39	14° Υ 40'29	46°34'11	man. Bartin diot.	10.00 p 12 00.10	19 19 02 5 .	1.72021110
evening max ci		0°8	40 34 11	superior conj	1649 Cap 15 12:20	22° m, 11'02	1022147
4 41 111	1646 Mar 05 01:23		4.0	1 3	1648 Sep 15 13:28	23°Mp11'02	
greatest brilliancy	1646 Mar 27 23:24	14° 8 46'22	-4.8m	minimum elong	1648 Sep 15 16:31	23° m 20'31	1°23'45
retrograde	1646 Apr 07 15:31	16° 8 52'59			1648 Sep 21 00:40	0∘ ত	
evening set	1646 Apr 23 19:37	11° 8 48'07			1648 Oct 15 01:05	0° M	
inferior conj	1646 Apr 28 23:30	8° 8 37'43	4°54'05	evening rise	1648 Oct 23 23:10	11° M 09'30	
minimum elong	1646 Apr 29 08:31	8° 8 23'27	4°51'51	desc. node	1648 Nov 04 16:07	25° M 48′06	
min. Earth dist.	1646 Apr 29 00:27	8° 8 36'12	0.28664 AU		1648 Nov 08 00:40	0° ∡ 7	
morning rise	1646 May 04 21:44	5° 8 01'39			1648 Dec 02 00:23	0°る	
direct	1646 May 20 08:39	0° 8 25'05			1648 Dec 26 01:25	0° ≈	
desc. node	1646 May 20 20:44	0° 8 25'22			1649 Jan 19 06:10	0°) €	
greatest brilliancy	1646 May 30 08:06	2° 8 12'57	-4 7m		1649 Feb 12 19:08	0°Υ	
greatest offinancy	1646 Jul 07 22:26	0°II	1.7111	asc. node	1649 Feb 25 19:18	15° Υ 37'08	
mamina may al		0° П 07'19	45942120	asc. nouc			
morning max el	1646 Jul 08 01:31		45°43'39		1649 Mar 09 23:54	0° B	
	1646 Aug 06 00:45	0°©			1649 Apr 05 11:02	0°П	
	1646 Sep 01 14:09	$0^{\circ}\Omega$		evening max el	1649 Apr 28 10:01	23° ∏ 47'49	45°32'34
asc. node	1646 Sep 11 00:20	11° Ω 02'09			1649 May 05 00:16	0	
	1646 Sep 26 21:57	0° m		greatest brilliancy	1649 Jun 05 04:47	21° © 39'28	-4.7m
	1646 Oct 21 12:01	0∘ ত		retrograde	1649 Jun 16 04:01	23°5548'59	
	1646 Nov 14 15:48	0° M.		desc. node	1649 Jun 17 08:44	23° © 47'18	
	1646 Dec 08 14:32	0° ∡ ¹		evening set	1649 Jul 01 12:45	19° © 16'05	
desc. node	1646 Dec 31 13:43	28° ₹ 51'26		inferior conj	1649 Jul 07 15:18	15° © 36'31	-4°31'51
	1647 Jan 01 11:32	8°0		minimum elong	1649 Jul 07 06:35	15° © 50'06	4°29'40
morning set	1647 Jan 05 23:39	5° る 39'48		min. Earth dist.	1649 Jul 07 13:45	15° © 38'56	0.28995 AU
morning sec	1647 Jan 25 08:38	0°≈		morning rise	1649 Jul 13 00:22	12° © 21'12	0.20//0110
	1047 Juli 25 00.50	0 ~		direct	1649 Jul 29 07:03	7°9518'47	
superior conj	1647 Feb 16 13:52	27°≈51'07	1922104	greatest brilliancy	1649 Aug 08 19:48	9° © 18'44	-4.7m
				greatest offinancy	-		-4./III
minimum elong	1647 Feb 16 07:54	27°≈32'28	1°23'00		1649 Sep 08 05:00	0° Ω	4.000.010.0
	1647 Feb 18 07:04	0°) (morning max el	1649 Sep 16 14:41	7° Ω 54'11	46°06'20
max. Earth dist.	1647 Feb 20 11:47	2°) (44'48	1.71689 AU		1649 Oct 07 19:43	0° ™	
	1647 Mar 14 08:08	0 ° $\mathbf{\gamma}$		asc. node	1649 Oct 08 12:09	0° Mp 45′07	
evening rise	1647 Mar 28 13:19	17° Ƴ 38'42			1649 Nov 03 02:28	0∘ ⊽	
	1647 Apr 07 13:03	$6^{\circ}B$			1649 Nov 28 02:11	0° M ₊	
asc. node	1647 Apr 23 17:11	19° 8 54'37			1649 Dec 22 11:50	0° ∡ 7	
	1647 May 01 22:44	Π $^{\circ}0$			1650 Jan 15 15:36	0°る	
	1647 May 26 13:52	0ಂತಾ		desc. node	1650 Jan 28 01:30	15° る 27'24	
	1647 Jun 20 11:43	$0^{\circ}\Omega$			1650 Feb 08 17:38	0° ≈	
	1647 Jul 15 19:16	0° m			1650 Mar 04 20:00	0°) €	
	1647 Aug 10 18:54	0∘ ʊ 0 ıı⁄ı		morning set	1650 Mar 23 02:26	22°) 41'24	
desa nada		0 2° 47'59		morning set		22 χ 41 24 0° Υ	
desc. node	1647 Aug 13 06:19				1650 Mar 28 23:54		
	1647 Sep 07 01:34	0°M	4600611=		1650 Apr 22 06:02	0°8	
evening max el	1647 Sep 22 17:36	15°M59'32	46°36'47			004.4-	
	1647 Oct 07 23:58	0° ∡ ¹		superior conj	1650 Apr 30 08:17	9° 8 59'05	
greatest brilliancy	1647 Nov 02 05:51	16° ₰ 00'29	-4.9m	minimum elong	1650 Apr 30 17:06	10° 8 26'15	
retrograde	1647 Nov 11 16:47	17° ∡ 741'36		max. Earth dist.	1650 May 02 12:48	12° 8 40'56	1.73199 AU
evening set	1647 Nov 26 03:09	13° ∡ ³36′04			1650 May 16 14:26	Π °0	

asc. node	1650 May 21 05:06	5° Ⅱ 40'07		direct	1652 Oct 07 11:06	15° Mp 46'11	
evening rise	1650 Jun 06 11:18	25° I I38'12		greatest brilliancy	1652 Oct 18 13:51	18° My 02'57	-4.8m
evening rise	1650 Jun 10 00:39	0°99		asc. node	1652 Nov 05 00:01	28° Mp 38'01	-4.0111
	1650 Jul 04 12:23	0°Ω		asc. Houc	1652 Nov 06 17:23	0° ⊡	
	1650 Jul 29 02:01	0°m)		morning max el	1652 Nov 27 00:03	0 — 18° ≏ 43'51	46°48'19
	1650 Aug 22 18:55	0∘ ত ೧.1%		morning max ci	1652 Dec 07 17:32	0°M	40 40 17
desc. node	1650 Sep 09 18:14	21° ≏ 39'59			1653 Jan 03 06:39	0° ⊼	
desc. node	1650 Sep 16 17:08	0°M			1653 Jan 28 12:54	0°る	
	1650 Oct 11 23:51	0° ⊼ ″			1653 Feb 22 07:18	0° ≈	
	1650 Nov 06 22:40	°ਨ		desc. node	1653 Feb 24 13:22	2° ≈ 44'40	
evening max el	1650 Dec 04 14:52	29° る 59'55	47°19'55	dose. node	1653 Mar 18 21:01	0°) €	
	1650 Dec 04 14:54	0° ≈	., ., .,		1653 Apr 12 09:14	0°Υ	
asc. node	1650 Dec 31 21:39	24°≈16'21			1653 May 06 21:19	0°8	
	1651 Jan 10 08:44	0° ∀			1653 May 31 09:21	0°II	
greatest brilliancy	1651 Jan 14 03:46	1°) 39′21	-4.9m	morning set	1653 May 31 21:38	0° П 37'36	
retrograde	1651 Jan 24 14:14	3°) (44'00		asc. node	1653 Jun 17 16:53	21° Ⅱ 13'19	
	1651 Feb 07 02:18	30° R ≈			1653 Jun 24 20:30	0.ಪ	
evening set	1651 Feb 10 19:10	27°≈54'01		max. Earth dist.	1653 Jul 05 09:54		1.73524 AU
min. Earth dist.	1651 Feb 13 12:48	26°≈13'00	0.27420 AU	man. Darum dist.	1000 041 00 05.01	12 00052	1.,502.110
inferior conj	1651 Feb 14 09:23	25°≈40'51	8°28'57	superior conj	1653 Jul 07 09:52	15° © 26'02	0°44'32
minimum elong	1651 Feb 14 03:42	25°≈49'45	8°28'28	minimum elong	1653 Jul 07 02:06	15°502'08	0°44'13
morning rise	1651 Feb 17 12:31	23°≈45'11	0 20 20	mmmum vieng	1653 Jul 19 05:51	0°N	015
direct	1651 Mar 07 01:40	17°≈50'16		evening rise	1653 Aug 12 05:11	29° Ω 35'01	
greatest brilliancy	1651 Mar 15 23:17	19° ≈ 20'11	-4.8m	evening rise	1653 Aug 12 13:17	0° m)	
greatest similare	1651 Apr 03 21:46	0° ∀			1653 Sep 05 19:41	0∘ ⊽	
desc. node	1651 Apr 22 11:01	15°) 59'46			1653 Sep 30 02:22	0° ™	
morning max el	1651 Apr 25 12:10	18°) 55'29	46°08'25	desc. node	1653 Oct 07 06:16	8°M50'20	
morning man vi	1651 May 06 13:06	0°Υ	.0 0020	dese. node	1653 Oct 24 10:22	0° ⊼ 7	
	1651 Jun 03 07:10	0°8			1653 Nov 17 20:53	0°ਰ	
	1651 Jun 29 14:04	0°II			1653 Dec 12 12:53	0° ≈	
	1651 Jul 25 02:26	0°9			1654 Jan 06 18:08	0° ∀	
asc. node	1651 Aug 13 14:28	23° 5 23'26		asc. node	1654 Jan 28 09:29	24°) 36'24	
use. Hour	1651 Aug 19 01:23	0° Ω		aso. node	1654 Feb 02 08:26	0°Υ	
	1651 Sep 12 13:32	0° m p		evening max el	1654 Feb 14 04:32	12° Υ 20'51	46°36'47
	1651 Oct 06 17:39	0∘ ರ ೧.ಗ		evening max er	1654 Mar 05 09:41	0°8	10 30 17
morning set	1651 Oct 19 23:23	16° £ 33'12		greatest brilliancy	1654 Mar 25 16:32	12° 8 35'57	-4.8m
morning sec	1651 Oct 30 16:47	0°M		retrograde	1654 Apr 05 07:43	14° 8 42'22	
	1651 Nov 23 13:36	0° ⊼ ¹		evening set	1654 Apr 21 14:27	9° 8 33'28	
max. Earth dist.	1651 Nov 28 05:18		1.71119 AU	inferior conj	1654 Apr 26 15:44	6° 8 27'06	5°10'35
man. Darun dige.	1001110120 00.10	0 7. 011.	1.,111,110	minimum elong	1654 Apr 27 01:01	6° 8 12'25	5°08'22
superior conj	1651 Nov 28 16:46	6° ∡ ¹27'17	0°10'41	min. Earth dist.	1654 Apr 26 16:44	6° 8 25'30	0.28642 AU
minimum elong	1651 Nov 28 19:32	6° ≯ 36'01	0°10'32	morning rise	1654 May 02 11:49	2° 8 53'59	0.200 .2 110
behind sun begin	1651 Nov 27 23:22	5° ∡ 32'35	0 10 32	morning rise	1654 May 08 14:25	30°RY	
behind sun end	1651 Nov 29 15:42	7° ∡ ³39'27		direct	1654 May 17 23:43	28° Y °14'39	
desc. node	1651 Dec 03 03:58	12° ₹ 04'29		desc. node	1654 May 19 22:47	28° Υ 19'04	
acco. noac	1651 Dec 17 09:52	0°ಕ		dese. node	1654 May 27 20:29	0°8	
evening rise	1652 Jan 09 04:35	28° る 37'57		greatest brilliancy	1654 May 27 23:42	0° 8 02'46	-4.7m
	1652 Jan 10 06:43	0° ≈		morning max el	1654 Jul 05 17:17	27° 8 57'30	45°43'38
	1652 Feb 03 05:29	0°) €			1654 Jul 07 20:20	0°Ⅱ	
	1652 Feb 27 08:12	0°Υ			1654 Aug 05 16:09	0.ಕಾ 	
	1652 Mar 22 17:37	0°8			1654 Sep 01 03:17	$0^{\circ}\Omega$	
asc. node	1652 Mar 25 07:20	3° 8 08'06		asc. node	1654 Sep 10 02:25	10° Ω 30'55	
	1652 Apr 16 13:06	0°Щ			1654 Sep 26 10:00	0° m/y	
	1652 May 11 23:27	0ಂತಾ			1654 Oct 20 23:32	0∘ <u>v</u>	
	1652 Jun 07 10:43	$0^{\circ}\Omega$			1654 Nov 14 03:03	0° ™	
	1652 Jul 06 04:30	0° m)			1654 Dec 08 01:39	0° ⊼ 7	
evening max el	1652 Jul 08 09:05	2° m 06'33	45°31'35	desc. node	1654 Dec 30 15:38	28° ₹ 22'50	
desc. node	1652 Jul 14 20:33	8° mp 07'50			1654 Dec 31 22:33	0°る	
	1652 Aug 16 03:02	0° ट		morning set	1655 Jan 03 09:08	3° る 04'10	
greatest brilliancy	1652 Aug 16 16:17	0° ⊆ 11'05	-4.8m		1655 Jan 24 19:33	0°≈	
retrograde	1652 Aug 26 01:27	1° ≏ 46'21				- · ·	
- The Brade	1652 Sep 04 14:08	30°RM)		superior conj	1655 Feb 14 00:57	25° ≈ 21'40	-1°21'59
evening set	1652 Sep 13 02:09	25° Mp 46'07		minimum elong	1655 Feb 13 18:05	25°≈00'09	
inferior conj	1652 Sep 16 05:14	23° m 51'41	-8°38'57	max. Earth dist.	1655 Feb 17 17:26	29°≈58'30	1.71638 AU
minimum elong	1652 Sep 16 03:14 1652 Sep 16 08:33	23° Mp 46'33		max. Latui uist.	1655 Feb 17 17:55	29 ≈ 36 30	1./1030 AU
min. Earth dist.	1652 Sep 16 08:33	23° m 23'02	0.28116 AU		1655 Mar 13 18:56	0°Υ	
morning rise	1652 Sep 19 14:42	23 m/23 02 21° m/47'06	0.20110 AU	evening rise	1655 Mar 26 02:44	0 γ 15° Υ 18'15	
morning 1150	1052 Sep 17 14.42	∠ı ııı,+/∪0		evening Hee	1000 14101 20 02.44	1010	

	1655 4 06 22 50	00		,	1657.0 + 07.14.10	00 7 0 6 10 5	
	1655 Apr 06 23:50	0° 8		asc. node	1657 Oct 07 14:19	0° Mp 06'25	
asc. node	1655 Apr 22 19:19	19° 8 27'58			1657 Nov 02 16:09	0∘ ⊽	
	1655 May 01 09:37	$\Pi^{\circ}0$			1657 Nov 27 14:44	0°M₊	
	1655 May 26 01:01	0ಂತ			1657 Dec 21 23:45	0° √	
	1655 Jun 19 23:26	$0 {\circ} \Omega$			1658 Jan 15 03:08	0°ප	
	1655 Jul 15 08:01	0° m y		desc. node	1658 Jan 27 03:35	14° る 58'26	
	1655 Aug 10 09:34	0∘ ⊽			1658 Feb 08 04:52	0° ≈	
desc. node	1655 Aug 12 08:19	2° £ 11'40			1658 Mar 04 07:00	0° ∀	
	1655 Sep 06 20:29	0°M		morning set	1658 Mar 20 16:00	20° ¥ 20'57	
evening max el	1655 Sep 20 07:05	13°MJ37'52	46°34'19	S	1658 Mar 28 10:44	$0^{\circ}\Upsilon$	
o voiming main or	1655 Oct 08 11:00	0°×7	.0 5 . 1 ,		1658 Apr 21 16:43	0°8	
greatest brilliancy	1655 Oct 30 18:13	13° × ⁷ 32'18	-4.9m		1050 11p1 21 10:15	ů O	
		15° 🖈 13'14	- 4 .7III	avaniar aani	1659 Ame 20 00:20	7° 8 47'39	0940145
retrograde	1655 Nov 09 05:12			superior conj	1658 Apr 28 00:20	_	
evening set	1655 Nov 23 16:24	11° ∡ 05'49		minimum elong	1658 Apr 28 09:29	8° 8 15'53	
inferior conj	1655 Nov 29 18:16	7° ∡ ³34'07		max. Earth dist.	1658 Apr 30 10:01	10° 8 45'31	1.73158 AU
minimum elong	1655 Nov 29 20:29	7° ⋌ ³30'44	0°57'24		1658 May 16 01:04	Π $^{\circ}0$	
min. Earth dist.	1655 Nov 29 22:25	7° ҂ ¹27'49	0.26462 AU	asc. node	1658 May 20 07:05	5° Ⅱ 13'33	
asc. node	1655 Dec 03 11:45	5° ∡ ¹20'31		evening rise	1658 Jun 04 05:35	23° ∏ 34'17	
morning rise	1655 Dec 06 00:16	3° ∡ 756′27			1658 Jun 09 11:20	0 \circ 60	
	1655 Dec 18 05:27	30°RM			1658 Jul 03 23:14	$0^{\circ}\Omega$	
direct	1655 Dec 20 04:02	29°M55'20			1658 Jul 28 13:11	o° mp	
	1655 Dec 22 03:02	0° ∡ ¹			1658 Aug 22 06:37	0∘ <u>⊽</u>	
greatest brilliancy	1655 Dec 30 12:36	1° × 757'50	4 0m	desc. node	1658 Sep 08 20:25	0 — 21° Ω 09'45	
greatest offinality		0°る	-4.7111	desc. Hode	•	0°M	
	1656 Feb 05 17:20		46051100		1658 Sep 16 05:41		
morning max el	1656 Feb 08 17:00	2° る 58'28	46°51'20		1658 Oct 11 13:46	0° ∡	
	1656 Mar 04 23:55	0° ≈			1658 Nov 06 15:09	0°ಕ	
desc. node	1656 Mar 24 01:20	21° ≈ 39′28		evening max el	1658 Dec 02 05:46	27° る 38'11	47°19'40
	1656 Mar 31 06:04	0° ℋ			1658 Dec 04 13:57	0° ≈	
	1656 Apr 25 18:13	0 ° Υ		asc. node	1658 Dec 30 23:42	22° ≈ 54'07	
	1656 May 20 21:53	$B_{\circ 0}$		greatest brilliancy	1659 Jan 11 18:36	29° ≈ 15'52	-4.9m
	1656 Jun 14 20:15	$\Pi^{\circ}0$			1659 Jan 13 21:49	0° ∀	
	1656 Jul 09 13:41	0ം ഉ		retrograde	1659 Jan 22 04:13	1°) 19′24	
asc. node	1656 Jul 15 04:40	6°951'39			1659 Jan 30 03:20	30°R≈	
uov. Irodo	1656 Aug 03 01:44	0° U		evening set	1659 Feb 08 05:38	25°≈35'37	
morning set	•	5° Ω 31'22		min. Earth dist.			0.27259 AII
morning set	1656 Aug 07 13:25				1659 Feb 11 02:10	23°≈50'12	0.27358 AU
F 4 F	1656 Aug 27 08:33	0° m)	1 50055 1 11	inferior conj	1659 Feb 11 23:04	23°≈17'31	8°22'29
max. Earth dist.	1656 Sep 09 21:40	16° m 49'44	1.72375 AU	minimum elong	1659 Feb 11 16:38	23° ≈ 27'35	8°21'51
				morning rise	1659 Feb 15 03:57	21° ≈ 19′07	
superior conj	1656 Sep 13 05:51	20° m 59'20		direct	1659 Mar 04 14:47	15° ≈ 28′10	
minimum elong	1656 Sep 13 08:09	21°M/06'28	1°24'13	greatest brilliancy	1659 Mar 13 12:17	16° ≈ 57'43	-4.8m
	1656 Sep 20 11:22	0∘ ত			1659 Apr 04 12:04	0° ∀	
	1656 Oct 14 11:55	0°M₊		desc. node	1659 Apr 21 13:06	15°) €07'27	
evening rise	1656 Oct 21 12:07	8°M45'51		morning max el	1659 Apr 23 01:12	16°) (34′47	46°09'52
desc. node	1656 Nov 03 18:12	25°M20'17		_	1659 May 06 08:09	$0^{\circ}\mathbf{Y}$	
	1656 Nov 07 11:40	0° √			1659 Jun 02 21:51	0°8	
	1656 Dec 01 11:35	0°ප			1659 Jun 29 02:51	0°П	
	1656 Dec 25 12:51	0° ≈			1659 Jul 24 14:14	0. 0.	
	1657 Jan 18 17:58	0° ∀		asc. node	1659 Aug 12 16:35	22° © 55'29	
	1657 Feb 12 07:32	0°Υ		ase. Houc	1659 Aug 18 12:39	0° Ω	
					•		
asc. node	1657 Feb 24 21:25	15° Y 05′05			1659 Sep 12 00:31	0° mp	
	1657 Mar 09 13:28	0°8			1659 Oct 06 04:30	0∘ 亚	
	1657 Apr 05 03:17	$\Pi^{\circ}0$		morning set	1659 Oct 17 13:45	14° ≏ 13'56	
evening max el	1657 Apr 26 03:05	21° Ⅱ 40′27	45°34'02		1659 Oct 30 03:38	0°M₊	
	1657 May 05 01:44	0 \circ ∞			1659 Nov 23 00:31	0° ∡ ¹	
greatest brilliancy	1657 Jun 02 20:43	19° 5 31'32	-4.7m	max. Earth dist.	1659 Nov 25 09:28	2° ₰ 59'04	1.71143 AU
retrograde	1657 Jun 13 20:42	21°5641'22					
desc. node	1657 Jun 16 10:42	21° © 33'31		superior conj	1659 Nov 26 03:47	3° ∡ ¹56'40	0°14'32
evening set	1657 Jun 29 03:43	17° © 10'49		minimum elong	1659 Nov 26 07:31	4° ∡ °08'25	0°14'20
inferior conj	1657 Jul 05 07:47	13°528'42	-4°14'53	behind sun begin	1659 Nov 25 18:58	3° ₹ 28'58	· · — ·
minimum elong	1657 Jul 04 23:26	13°941'44		behind sun end	1659 Nov 26 20:04	4° × ⁷ 47'52	
•	1657 Jul 05 05:47		0.28994 AU			11° ₹ 36'17	
min. Earth dist.			0.20334 AU	desc. node	1659 Dec 02 05:56		
morning rise	1657 Jul 10 19:11	10°909'57			1659 Dec 16 20:52	0°る	
direct	1657 Jul 27 00:04	5° © 11'13		evening rise	1660 Jan 06 14:32	26° る 03'45	
greatest brilliancy	1657 Aug 06 11:00	7°509'38	-4.7m		1660 Jan 09 17:48	0° ≈	
	1657 Sep 08 06:02	$0^{\circ}\Omega$			1660 Feb 02 16:38	0° ∀	
morning max el	1657 Sep 14 06:28	5° Ω 42'58	46°04'46		1660 Feb 26 19:29	$0^{\circ}\Upsilon$	
	1657 Oct 07 11:59	0° m			1660 Mar 22 05:11	9° 8	

asc. node	1660 Mar 24 09:27	2° 8 39'16			1662 Oct 20 11:13	0∘ ত	
	1660 Apr 16 01:14	0°Щ			1662 Nov 13 14:28	0°M₊	
	1660 May 11 12:42	0°©			1662 Dec 07 12:55	0° ∡ ¹	
	1660 Jun 07 02:21	$0^{\circ}\Omega$		desc. node	1662 Dec 29 17:47	27° ∡ °54'30	
evening max el	1660 Jul 05 22:42	29° Ω 49'56	45°30'24		1662 Dec 31 09:42	8°0	
	1660 Jul 06 02:55	0° m		morning set	1662 Dec 31 19:13	0° る 29'55	
desc. node	1660 Jul 13 22:37	7° Mp 13'00			1663 Jan 24 06:38	0° ≈	
greatest brilliancy	1660 Aug 14 05:35	27° m 55'08	-4.7m				
retrograde	1660 Aug 23 15:15	29° m 31'20		superior conj	1663 Feb 11 12:11	22° ≈ 51'57	-1°20'44
evening set	1660 Sep 10 17:03	23° m 29'49		minimum elong	1663 Feb 11 04:27	22° ≈ 27'45	1°20'36
inferior conj	1660 Sep 13 19:57	21°Mp35'47		max. Earth dist.	1663 Feb 15 01:56	27° ≈ 20′24	1.71595 AU
minimum elong	1660 Sep 13 22:26	21° m 31'58			1663 Feb 17 04:57	0° ∀	
min. Earth dist.	1660 Sep 14 14:09	21°Mp07'42	0.28175 AU		1663 Mar 13 05:58	0° Υ	
morning rise	1660 Sep 17 03:34	19° m 34'01		evening rise	1663 Mar 23 16:07	12° Y ′56'45	
direct	1660 Oct 05 01:54	13° m 29'12			1663 Apr 06 10:56	0° 8	
greatest brilliancy	1660 Oct 16 05:41	15° Mp 46'36	-4.8m	asc. node	1663 Apr 21 21:16	18° 8 59'45	
asc. node	1660 Nov 04 01:56	27° Tp 28'26			1663 Apr 30 20:50	0°II	
	1660 Nov 07 03:36	0° ⊽	46047117		1663 May 25 12:33	0° ©	
morning max el	1660 Nov 24 14:05	16° £ 21'35	46°47'17		1663 Jun 19 11:32	0° N	
	1660 Dec 07 12:10	0° M 0° ∡ 7			1663 Jul 14 21:11	0ം ⊽ 0ംൂൂ	
	1661 Jan 02 21:35 1661 Jan 28 02:14	0° X '		daga mada	1663 Aug 10 00:45 1663 Aug 11 10:29	1° 234'38	
	1661 Feb 21 19:44	0°≈		desc. node	1663 Sep 06 16:14	0°M	
desc. node	1661 Feb 23 15:30	0 ∞ 2°≈13'27		evening max el	1663 Sep 17 21:24	11°M17'46	46°31'53
desc. Hode	1661 Mar 18 08:51	2 ≈ 1327		evening max er	1663 Oct 09 02:03	0° √	40 31 33
	1661 Apr 11 20:37	0°Υ		greatest brilliancy	1663 Oct 28 06:39	11° ×7 04'07	-4.9m
	1661 May 06 08:23	0°8		retrograde	1663 Nov 06 17:52	12°×7'44'38	-4.7111
morning set	1661 May 29 15:19	28° 8 31'31		evening set	1663 Nov 21 06:07	8° ₹ 35'25	
morning sec	1661 May 30 20:12	0°II		inferior conj	1663 Nov 27 06:27	5° √ 05'31	-1°22'29
asc. node	1661 Jun 16 18:53	20°∏46'29		minimum elong	1663 Nov 27 09:36	5° х 00'44	1°21'28
	1661 Jun 24 07:15	0.20		min. Earth dist.	1663 Nov 27 11:47	4° ∡ 757'25	0.26482 AU
max. Earth dist.	1661 Jul 03 07:00	11° © 02'54	1.73543 AU	asc. node	1663 Dec 02 13:50	1° ∡ ¹58'33	
				morning rise	1663 Dec 03 12:50	1° ∡ ′27′34	
superior conj	1661 Jul 05 04:18	13°522'07	0°41'51		1663 Dec 06 12:46	30°RM	
minimum elong	1661 Jul 04 20:50	12° 5 59'10	0°41'31	direct	1663 Dec 17 17:17	27°M26'28	
	1661 Jul 18 16:36	$0^{\circ}\Omega$		greatest brilliancy	1663 Dec 28 02:07	29°M29'40	-4.9m
evening rise	1661 Aug 09 23:28	27° \O 29'43			1663 Dec 29 08:38	0° ∡ ¹	
	1661 Aug 12 00:09	O° Mp			1664 Feb 05 17:12	8°0	
	1661 Sep 05 06:46	0∘ ত		morning max el	1664 Feb 06 07:18	0° る 35'27	46°52'14
	1661 Sep 29 13:46	0° M			1664 Mar 04 16:39	0° ≈	
desc. node	1661 Oct 06 08:19	8°M21'17		desc. node	1664 Mar 23 03:25	21° ≈ 03'03	
	1661 Oct 23 22:11	0°⊀			1664 Mar 30 20:10	0° ∀	
	1661 Nov 17 09:15	0°る			1664 Apr 25 06:59	0° Υ	
	1661 Dec 12 02:06	0° ≈			1664 May 20 09:52	0° 8	
	1662 Jan 06 08:57	0°) ((1664 Jun 14 07:44	0°II	
asc. node	1662 Jan 27 11:35	23°) 53′56			1664 Jul 09 00:51	0°95	
	1662 Feb 02 03:04	0° Υ	4.602.010.0	asc. node	1664 Jul 14 06:51	6°\$24'20	
evening max el	1662 Feb 11 19:02	10° Ƴ 01'53 0° ႘	46°39'08	morning got	1664 Aug 02 12:44	0°Ω 2°Ω22/41	
araataat brillianas	1662 Mar 05 21:36 1662 Mar 23 08:55	10° 8 23'06	-4.8m	morning set	1664 Aug 05 06:56	3° Ω 23'41 0° m	
greatest brilliancy retrograde	1662 Apr 03 00:06	10 8 23 00	-4.0111	max. Earth dist.	1664 Aug 26 19:30 1664 Sep 07 12:17	ربان 14°Moj31'51	1.72425 AU
evening set	1662 Apr 19 09:05	7° 8 16'45		max. Earm dist.	1004 Sep 07 12.17	14 IIJ 31 31	1.72423 AU
inferior conj	1662 Apr 24 07:41	4° 8 14'33	5°26'49	superior conj	1664 Sep 10 22:16	18° m 46'49	1°24'33
minimum elong	1662 Apr 24 17:11	3° 8 59'34	5°24'37	minimum elong	1664 Sep 10 23:48	18° m) 51'37	1°24'34
min. Earth dist.	1662 Apr 24 08:32	4° 8 13'13	0.28622 AU	minimum ciong	1664 Sep 19 22:23	0° ⊽	1 24 54
morning rise	1662 Apr 30 01:31	0° 8 44'53			1664 Oct 13 23:04	0° m .	
	1662 May 01 10:16	30°RY		evening rise	1664 Oct 19 01:12	6° ™ 21'40	
direct	1662 May 15 14:57	26° Υ '02'15		desc. node	1664 Nov 02 20:09	24°M51'05	
desc. node	1662 May 19 00:44	26°Υ15'33			1664 Nov 06 23:00	0° ∡ ¹	
greatest brilliancy	1662 May 25 14:51	27° Y ′50'36	-4.7m		1664 Nov 30 23:07	8°0	
J	1662 May 30 18:47	0°8			1664 Dec 25 00:39	0° ≈	
morning max el	1662 Jul 03 09:39	25° 8 48'10	45°43'49		1665 Jan 18 06:07	0° ∀	
	1662 Jul 07 17:47	Π °0			1665 Feb 11 20:17	0° Y	
	1662 Aug 05 07:34	0 \circ \odot		asc. node	1665 Feb 23 23:32	14° Y 32'04	
	1662 Aug 31 16:30	$0^{\circ}\Omega$			1665 Mar 09 03:26	0° 8	
asc. node	1662 Sep 09 04:30	9° Ω 59'15			1665 Apr 04 20:11	Π °0	
	1662 Sep 25 22:12	0° m p		evening max el	1665 Apr 23 19:27	19° Ⅲ 30′12	45°35'16

ž							
	1665 May 05 05:15	0°©		superior conj	1667 Nov 23 14:37	1° × 724'42	0°18'21
greatest brilliancy	1665 May 31 13:05	17° © 22'34	-4.7m	minimum elong	1667 Nov 23 19:17	1° х 39′22	0°18'08
retrograde	1665 Jun 11 12:44	19° © 32'02	.,,	desc. node	1667 Dec 01 08:03	11° х 07'46	
desc. node	1665 Jun 15 12:49	19° © 13'09			1667 Dec 16 08:05	0°ಕ	
evening set	1665 Jun 26 18:42	15° © 03'40		evening rise	1668 Jan 04 00:25	23° ට 28'45	
inferior conj	1665 Jul 03 00:08	11° © 19'19	-3°57'30	evening rise	1668 Jan 09 05:04	0°≈	
minimum elong	1665 Jul 02 16:13	11°531'42			1668 Feb 02 03:59	0°) €	
min. Earth dist.	1665 Jul 02 22:07	11°522'29	0.28993 AU		1668 Feb 26 06:59	0° Υ	
morning rise	1665 Jul 08 13:46	7°957'04	0.20,,,,,,,,,		1668 Mar 21 17:00	0°8	
direct	1665 Jul 24 16:38	3° © 01'59		asc. node	1668 Mar 23 11:24	2° 8 09'09	
greatest brilliancy	1665 Aug 04 02:35	4° 9 59'15	-4 7m	use. Hode	1668 Apr 15 13:37	0°II	
greatest similare	1665 Sep 08 06:27	0°N	11,711		1668 May 11 02:13	0°©	
morning max el	1665 Sep 11 21:14	3° Ω 27'58	46°03'19		1668 Jun 06 18:23	$0^{\circ}\Omega$	
asc. node	1665 Oct 06 16:18	29° Ω 26'24	10 03 17	evening max el	1668 Jul 03 12:27	27° Ω 33'23	45°29'16
ase. Houe	1665 Oct 07 04:25	0° m		evening max er	1668 Jul 06 02:30	0° m)	45 27 10
	1665 Nov 02 06:05	0° ʊ 0''y		desc. node	1668 Jul 13 00:43	6° Mp 16'32	
	1665 Nov 27 03:31	0° m .		greatest brilliancy	1668 Aug 11 17:58	25° Mp 37'42	-4.7m
	1665 Dec 21 11:56	0° ⊼ 7		retrograde	1668 Aug 21 05:32	27° m) 15'40	-4.7111
	1666 Jan 14 14:56	°ੇਠ ਹ°ਣ		evening set	1668 Sep 08 07:27	21° Mp 13'11	
desc. node	1666 Jan 26 05:40	0 8 14° 8 28'36		inferior conj	1668 Sep 11 10:34	19° m) 18'57	00/12/5/
desc. Hode	1666 Feb 07 16:24	0°≈		minimum elong	1668 Sep 11 10:34	19 mg 16'27	
		0 ≫		•	•	-	0.28239 AU
	1666 Mar 03 18:18	17°) 59'40		min. Earth dist.	1668 Sep 12 04:02	18° Mp 52'01 17° Mp 19'33	0.28239 AU
morning set	1666 Mar 18 05:38 1666 Mar 27 21:50	17 χ3940 0° Υ		morning rise	1668 Sep 14 16:41	~	
				direct	1668 Oct 02 16:59	11°M)11'16	1 0
	1666 Apr 21 03:41	0°8		greatest brilliancy	1668 Oct 13 21:13	13° M) 29'10	-4.8m
	1666 4 25 16 21	50005146	0052120	asc. node	1668 Nov 03 04:02	26° Mp 20'07	
superior conj	1666 Apr 25 16:31	5° 8 35'46			1668 Nov 07 11:30	0° ⊽	46046114
minimum elong	1666 Apr 26 01:57	6° 8 04'51		morning max el	1668 Nov 22 05:02	14° £ 00'55	46°46'14
max. Earth dist.	1666 Apr 28 07:11		1.73115 AU		1668 Dec 07 06:39	0° M ○0. 7	
ī	1666 May 15 11:59	0°П			1669 Jan 02 12:35	0° ⊼	
asc. node	1666 May 19 09:09	4° Ⅱ 46′20			1669 Jan 27 15:38	0° る	
evening rise	1666 Jun 01 23:52	21° Ⅱ 29'25		1 1	1669 Feb 21 08:12	0° ≈	
	1666 Jun 08 22:20	0° ©		desc. node	1669 Feb 22 17:32	1°≈41'45	
	1666 Jul 03 10:26	$\Omega^{\circ}\Omega$			1669 Mar 17 20:42	0° ∀ 0° Υ	
	1666 Jul 28 00:45	0° m			1669 Apr 11 08:03		
1 1	1666 Aug 21 18:45	0° ™		. ,	1669 May 05 19:31	0°8	
desc. node	1666 Sep 07 22:23	20° £ 37'36 0° M		morning set	1669 May 27 09:07	26° ႘ 25'24 0°Ⅱ	
	1666 Sep 15 18:40	0°111℃		1-	1669 May 30 07:08	0°Ⅲ 20°Ⅱ19'58	
	1666 Oct 11 04:11			asc. node	1669 Jun 15 21:04		
	1666 Nov 06 08:17	0°궁 25°⋜12142	47910124	Fauth 4:-4	1669 Jun 23 18:04	0°©	1 72550 AII
evening max el	1666 Nov 29 19:32	25° ♂ 12'42	4/-19/24	max. Earth dist.	1669 Jul 01 05:38	9° © 11'42	1.73558 AU
	1666 Dec 04 14:22	0°≈		:	1660 I1 02 22-51	11001000	0920107
asc. node	1666 Dec 30 01:51	21°≈28'22	4.0	superior conj	1669 Jul 02 22:51	11°5518'23	0°39'06
greatest brilliancy	1667 Jan 09 09:40	26°≈51'37	-4.9m	minimum elong	1669 Jul 02 15:43	10°956'29	0°38'4/
retrograde	1667 Jan 19 17:41	28°≈53'52			1669 Jul 18 03:24	0°Ω	
evening set	1667 Feb 05 15:51	23°≈16'22	0.27207 ATT	evening rise	1669 Aug 07 17:58	25° Ω 25'03	
min. Earth dist.	1667 Feb 08 15:50	21°≈25'55	0.27297 AU 8°15'06		1669 Aug 11 11:03	0 ்⊽ 0 ்ம்	
inferior conj	1667 Feb 09 12:43	20° ≈ 53'15	8"15'06				
minimum elong	1//7 E-I- 00 05-25				1669 Sep 04 17:55		
	1667 Feb 09 05:35	21° ≈ 04'24	8°14'17		1669 Sep 29 01:16	0° M	
morning rise	1667 Feb 12 19:38	21°≈04'24 18°≈51'43		desc. node	1669 Sep 29 01:16 1669 Oct 05 10:18	0° ጤ 7° ጤ 51'37	
direct	1667 Feb 12 19:38 1667 Mar 02 03:25	21°≈04'24 18°≈51'43 13°≈04'50	8°14'17	desc. node	1669 Sep 29 01:16 1669 Oct 05 10:18 1669 Oct 23 10:09	0° ጤ 7° ጤ 51'37 0° ҂	
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direct greatest brilliancy morning max el	1667 Feb 12 19:38 1667 Mar 02 03:25 1667 Mar 11 01:55 1667 Apr 04 23:06 1667 Apr 20 13:58	21°≈04'24 18°≈51'43 13°≈04'50 14°≈34'52 0°¥ 14°¥12'23	8°14'17		1669 Sep 29 01:16 1669 Oct 05 10:18 1669 Oct 23 10:09 1669 Nov 16 21:49 1669 Dec 11 15:34 1670 Jan 06 00:05	0°M 7°M51'37 0°♂ 0°♂ 0°≈ 0°¥	
direct greatest brilliancy	1667 Feb 12 19:38 1667 Mar 02 03:25 1667 Mar 11 01:55 1667 Apr 04 23:06 1667 Apr 20 13:58 1667 Apr 20 15:01	21°≈04'24 18°≈51'43 13°≈04'50 14°≈34'52 0° ₩ 14° ₩ 12'23 14° ₩ 14'57	8°14'17 -4.8m	desc. node	1669 Sep 29 01:16 1669 Oct 05 10:18 1669 Oct 23 10:09 1669 Nov 16 21:49 1669 Dec 11 15:34 1670 Jan 06 00:05 1670 Jan 26 13:39	0°M 7°M51'37 0°ズ 0°ズ 0°ズ 0°※ 0°米 23°米10'37	
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direct greatest brilliancy morning max el	1667 Feb 12 19:38 1667 Mar 02 03:25 1667 Mar 11 01:55 1667 Apr 04 23:06 1667 Apr 20 13:58 1667 Apr 20 15:01 1667 May 06 02:56 1667 Jun 02 12:34 1667 Jun 28 15:48	21°≈04'24 18°≈51'43 13°≈04'50 14°≈34'52 0° ¥ 14° ¥12'23 14° ¥14'57 0° ¥ 0° ¥ 0° B	8°14'17 -4.8m	asc. node evening max el	1669 Sep 29 01:16 1669 Oct 05 10:18 1669 Oct 23 10:09 1669 Nov 16 21:49 1669 Dec 11 15:34 1670 Jan 06 00:05 1670 Jan 26 13:39 1670 Feb 01 22:17 1670 Feb 09 10:18 1670 Mar 06 13:36	0°ጤ 7°ጤ51'37 0°ፉ 0°ጜ 0°≈ 0°ት 23°ት(10'37 0°Υ 7°Υ44'42	
direct greatest brilliancy morning max el desc. node	1667 Feb 12 19:38 1667 Mar 02 03:25 1667 Mar 11 01:55 1667 Apr 04 23:06 1667 Apr 20 13:58 1667 Apr 20 15:01 1667 May 06 02:56 1667 Jun 02 12:34 1667 Jun 28 15:48 1667 Jul 24 02:16	21°≈04'24 18°≈51'43 13°≈04'50 14°≈34'52 0° ¥ 14° ¥12'23 14° ¥14'57 0° ¥ 0° ¥ 0° B 0° II 0° ©	8°14'17 -4.8m	asc. node evening max el greatest brilliancy	1669 Sep 29 01:16 1669 Oct 05 10:18 1669 Oct 23 10:09 1669 Nov 16 21:49 1669 Dec 11 15:34 1670 Jan 06 00:05 1670 Jan 26 13:39 1670 Feb 01 22:17 1670 Feb 09 10:18 1670 Mar 06 13:36 1670 Mar 21 00:44	0°M. 7°M.51'37 0° ₹ 0° ₹ 0° ₹ 0° ★ 23° ¥ 10'37 0° Υ 7° Υ 44'42 0° ႘ 8° ႘ 09'37	46°41'40 -4.8m
direct greatest brilliancy morning max el	1667 Feb 12 19:38 1667 Mar 02 03:25 1667 Mar 11 01:55 1667 Apr 04 23:06 1667 Apr 20 13:58 1667 Apr 20 15:01 1667 May 06 02:56 1667 Jun 02 12:34 1667 Jun 28 15:48 1667 Jul 24 02:16 1667 Aug 11 18:39	21°≈04'24 18°≈51'43 13°≈04'50 14°≈34'52 0° ¥ 14° ¥ 12'23 14° ¥ 14'57 0° ¥ 0° ¶ 0° ¶ 22° © 26'34	8°14'17 -4.8m	asc. node evening max el greatest brilliancy retrograde	1669 Sep 29 01:16 1669 Oct 05 10:18 1669 Oct 23 10:09 1669 Nov 16 21:49 1669 Dec 11 15:34 1670 Jan 06 00:05 1670 Jan 26 13:39 1670 Feb 01 22:17 1670 Mar 06 13:36 1670 Mar 06 13:36 1670 Mar 21 00:44 1670 Mar 31 16:48	0°M. 7°M.51'37 0° ₹ 0° ₹ 0° ₹ 0° ₩ 23° ₩ 10'37 0° Υ 7° Υ 44'42 0° ₩ 8° ₭ 309'37 10° ₭ 17'20	
direct greatest brilliancy morning max el desc. node	1667 Feb 12 19:38 1667 Mar 02 03:25 1667 Mar 11 01:55 1667 Apr 04 23:06 1667 Apr 20 13:58 1667 Apr 20 15:01 1667 May 06 02:56 1667 Jun 02 12:34 1667 Jun 28 15:48 1667 Jul 24 02:16 1667 Aug 11 18:39 1667 Aug 18 00:11	21°≈04'24 18°≈51'43 13°≈04'50 14°≈34'52 0° ₩ 14° ₩ 12'23 14° ₩ 14'57 0° Ψ 0° ₩ 0° ₩ 22° \$\text{\$\text{\$2\$}\$} 26'34 0° \$\text{\$\text{\$0\$}\$}	8°14'17 -4.8m	asc. node evening max el greatest brilliancy retrograde evening set	1669 Sep 29 01:16 1669 Oct 05 10:18 1669 Oct 23 10:09 1669 Nov 16 21:49 1669 Dec 11 15:34 1670 Jan 06 00:05 1670 Jan 26 13:39 1670 Feb 01 22:17 1670 Feb 09 10:18 1670 Mar 06 13:36 1670 Mar 21 00:44 1670 Mar 31 16:48 1670 Apr 17 03:46	0°M. 7°M.51'37 0° ፟፟ 0° ፟ 0° ፟ 0° ፟ 23° ዃ 10'37 0° Ύ 7° ᡩ 44'42 0° ੴ 8° ♂ 09'37 10° ♂ 17'20 4° ♂ 59'49	-4.8m
direct greatest brilliancy morning max el desc. node	1667 Feb 12 19:38 1667 Mar 02 03:25 1667 Mar 11 01:55 1667 Apr 04 23:06 1667 Apr 20 13:58 1667 Apr 20 15:01 1667 May 06 02:56 1667 Jun 02 12:34 1667 Jun 28 15:48 1667 Jul 24 02:16 1667 Aug 11 18:39 1667 Aug 18 00:11 1667 Sep 11 11:48	21°≈04'24 18°≈51'43 13°≈04'50 14°≈34'52 0° ₩ 14° ₩ 12'23 14° ₩ 14'57 0° Ψ 0° ₩ 0° ₩ 22° © 26'34 0° Ω 0° ₥	8°14'17 -4.8m	asc. node evening max el greatest brilliancy retrograde evening set inferior conj	1669 Sep 29 01:16 1669 Oct 05 10:18 1669 Oct 23 10:09 1669 Nov 16 21:49 1669 Dec 11 15:34 1670 Jan 06 00:05 1670 Jan 26 13:39 1670 Feb 01 22:17 1670 Feb 09 10:18 1670 Mar 06 13:36 1670 Mar 21 00:44 1670 Mar 31 16:48 1670 Apr 17 03:46 1670 Apr 21 23:35	0°ጤ 7°ጤ51'37 0°ជ 0°ជ 0°ជ 0°ឱ 0°¥ 23°升10'37 0°Υ 7°Υ44'42 0°႘ 8°႘09'37 10°႘17'20 4°႘59'49 2°႘01'45	-4.8m 5°42'42
direct greatest brilliancy morning max el desc. node asc. node	1667 Feb 12 19:38 1667 Mar 02 03:25 1667 Mar 11 01:55 1667 Apr 04 23:06 1667 Apr 20 13:58 1667 Apr 20 15:01 1667 May 06 02:56 1667 Jun 02 12:34 1667 Jun 28 15:48 1667 Aug 11 18:39 1667 Aug 18 00:11 1667 Sep 11 11:48 1667 Oct 05 15:40	21°≈04'24 18°≈51'43 13°≈04'50 14°≈34'52 0° ₩ 14° ₩ 12'23 14° ₩ 14'57 0° Ψ 0° ₩ 0° © 22°© 26'34 0° Ω 0° ™ 0° ©	8°14'17 -4.8m	asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong	1669 Sep 29 01:16 1669 Oct 05 10:18 1669 Oct 23 10:09 1669 Nov 16 21:49 1669 Dec 11 15:34 1670 Jan 06 00:05 1670 Jan 26 13:39 1670 Feb 01 22:17 1670 Feb 09 10:18 1670 Mar 06 13:36 1670 Mar 21 00:44 1670 Mar 31 16:48 1670 Apr 17 03:46 1670 Apr 21 23:35 1670 Apr 22 09:15	0°M. 7°M.51'37 0°♂ 0°♂ 0°% 0°% 23°升10'37 0°Ƴ 7°Ƴ44'42 0°႘ 8°႘09'37 10°႘17'20 4°႘59'49 2°႘01'45 1°႘46'31	-4.8m 5°42'42 5°40'32
direct greatest brilliancy morning max el desc. node	1667 Feb 12 19:38 1667 Mar 02 03:25 1667 Mar 11 01:55 1667 Apr 04 23:06 1667 Apr 20 13:58 1667 Apr 20 15:01 1667 May 06 02:56 1667 Jun 02 12:34 1667 Jun 28 15:48 1667 Aug 11 18:39 1667 Aug 18 00:11 1667 Sep 11 11:48 1667 Oct 05 15:40 1667 Oct 15 03:54	21°≈04'24 18°≈51'43 13°≈04'50 14°≈34'52 0° ₩ 14° ₩ 12'23 14° ₩ 14'57 0° ❤ 0° ₩ 0° © 22°© 26'34 0° Ω 0° № 0° Ω	8°14'17 -4.8m	asc. node evening max el greatest brilliancy retrograde evening set inferior conj	1669 Sep 29 01:16 1669 Oct 05 10:18 1669 Oct 23 10:09 1669 Nov 16 21:49 1669 Dec 11 15:34 1670 Jan 06 00:05 1670 Jan 26 13:39 1670 Feb 01 22:17 1670 Feb 09 10:18 1670 Mar 06 13:36 1670 Mar 21 00:44 1670 Mar 31 16:48 1670 Apr 17 03:46 1670 Apr 21 23:35 1670 Apr 22 09:15 1670 Apr 21 23:52	0°M. 7°M.51'37 0°♂ 0°♂ 0°% 0°% 23°升10'37 0°Ƴ 7°Ƴ44'42 0°႘ 8°႘09'37 10°႘17'20 4°႘59'49 2°႘01'45 1°႘46'31 2°႘01'18	-4.8m 5°42'42
direct greatest brilliancy morning max el desc. node asc. node	1667 Feb 12 19:38 1667 Mar 02 03:25 1667 Mar 11 01:55 1667 Apr 04 23:06 1667 Apr 20 13:58 1667 Apr 20 15:01 1667 May 06 02:56 1667 Jun 02 12:34 1667 Jun 28 15:48 1667 Aug 11 18:39 1667 Aug 18 00:11 1667 Sep 11 11:48 1667 Oct 05 15:40 1667 Oct 15 03:54 1667 Oct 29 14:46	21°≈04'24 18°≈51'43 13°≈04'50 14°≈34'52 0° ₩ 14° ₩ 12'23 14° ₩ 14'57 0° Ψ 0° ₩ 0° Φ 22°©26'34 0° € 0° № 0° Φ 11° Ф 53'03 0° №	8°14'17 -4.8m	asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	1669 Sep 29 01:16 1669 Oct 05 10:18 1669 Oct 23 10:09 1669 Nov 16 21:49 1669 Dec 11 15:34 1670 Jan 06 00:05 1670 Jan 26 13:39 1670 Feb 01 22:17 1670 Feb 09 10:18 1670 Mar 06 13:36 1670 Mar 21 00:44 1670 Mar 31 16:48 1670 Apr 17 03:46 1670 Apr 21 23:35 1670 Apr 22 09:15 1670 Apr 21 23:52 1670 Apr 25 05:48	0°M. 7°M.51'37 0°♂ 0°♂ 0°% 0°% 23°升10'37 0°° 7°°\44'42 0°\80'\80'\809'37 10°\817'20 4°\859'49 2°\801'45 1°\846'31 2°\801'18 30°\%\7	-4.8m 5°42'42 5°40'32
direct greatest brilliancy morning max el desc. node asc. node	1667 Feb 12 19:38 1667 Mar 02 03:25 1667 Mar 11 01:55 1667 Apr 04 23:06 1667 Apr 20 13:58 1667 Apr 20 15:01 1667 May 06 02:56 1667 Jun 02 12:34 1667 Jun 28 15:48 1667 Aug 11 18:39 1667 Aug 18 00:11 1667 Sep 11 11:48 1667 Oct 05 15:40 1667 Oct 15 03:54	21°≈04'24 18°≈51'43 13°≈04'50 14°≈34'52 0° ℋ 14° ℋ 12'23 14° ℋ 14'57 0° ℋ 0° ℋ 0° ℋ 0° ℋ 0° Љ 11° № 53'03 0° ℳ	8°14'17 -4.8m	asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong	1669 Sep 29 01:16 1669 Oct 05 10:18 1669 Oct 23 10:09 1669 Nov 16 21:49 1669 Dec 11 15:34 1670 Jan 06 00:05 1670 Jan 26 13:39 1670 Feb 01 22:17 1670 Feb 09 10:18 1670 Mar 06 13:36 1670 Mar 21 00:44 1670 Mar 31 16:48 1670 Apr 17 03:46 1670 Apr 21 23:35 1670 Apr 22 09:15 1670 Apr 21 23:52	0°M. 7°M.51'37 0°♂ 0°♂ 0°% 0°% 23°升10'37 0°Ƴ 7°Ƴ44'42 0°႘ 8°႘09'37 10°႘17'20 4°႘59'49 2°႘01'45 1°႘46'31 2°႘01'18	-4.8m 5°42'42 5°40'32

1 1	1670 M 10 02 56	2400017124			1672 N 06 10 00	00.7	
desc. node	1670 May 18 02:56	24°Υ16'34	4.7		1672 Nov 06 10:00	0° ⊼	
greatest brilliancy	1670 May 23 05:22	25° Ƴ 37'44	-4.7m		1672 Nov 30 10:21	600 ප	
	1670 Jun 01 12:57	0°8			1672 Dec 24 12:10	0° ≈	
morning max el	1670 Jul 01 02:28	23° 8 40'10	45°44'02		1673 Jan 17 18:03	0° ∀	
	1670 Jul 07 14:24	0°Щ			1673 Feb 11 08:53	0° Υ	
	1670 Aug 04 22:41	0°€		asc. node	1673 Feb 23 01:28	13° Y ′58′53	
	1670 Aug 31 05:31	0 $^{\circ}\Omega$			1673 Mar 08 17:20	0°B	
asc. node	1670 Sep 08 06:30	9° Ω 27'44			1673 Apr 04 13:11	Π °0	
	1670 Sep 25 10:14	0° m)		evening max el	1673 Apr 21 10:55	17° Ⅱ 18'19	45°36'47
	1670 Oct 19 22:47	0∘ ⊽			1673 May 05 10:12	0 \circ	
	1670 Nov 13 01:50	0°M₊		greatest brilliancy	1673 May 29 05:50	15° © 14'57	-4.7m
	1670 Dec 07 00:10	0° ∡ 7		retrograde	1673 Jun 09 04:33	17° © 23'58	
desc. node	1670 Dec 28 19:53	27° ∡ ¹26′02		desc. node	1673 Jun 14 14:52	16° © 49'12	
morning set	1670 Dec 29 04:55	27° ₹ 54'25		evening set	1673 Jun 24 09:55	12° © 57'21	
	1670 Dec 30 20:52	0°ප		inferior conj	1673 Jun 30 16:34	9° © 11'13	-3°39'50
	1671 Jan 23 17:42	0° ≈		minimum elong	1673 Jun 30 09:08	9° 5 22'53	3°37'51
				min. Earth dist.	1673 Jun 30 14:47	9° 5 014'02	0.28990 AU
superior conj	1671 Feb 08 22:45	20° ≈ 20′09	-1°19'17	morning rise	1673 Jul 06 08:20	5° © 45'35	
minimum elong	1671 Feb 08 14:12	19° ≈ 53′20	1°19'07	direct	1673 Jul 22 08:50	0° ഇ 53'56	
max. Earth dist.	1671 Feb 12 11:51	24° ≈ 46'41	1.71548 AU	greatest brilliancy	1673 Aug 01 18:48	2° © 50'45	-4.7m
	1671 Feb 16 15:57	0°) €			1673 Sep 08 05:20	$0^{\circ}\Omega$	
	1671 Mar 12 16:55	$0^{\circ}\mathbf{\Upsilon}$		morning max el	1673 Sep 09 11:29	1° Ω 12'51	46°02'00
evening rise	1671 Mar 21 05:02	10° Ƴ 34'03		asc. node	1673 Oct 05 18:20	28° Ω 48'01	
Ü	1671 Apr 05 21:54	0° ႘			1673 Oct 06 20:11	0° m)	
asc. node	1671 Apr 20 23:22	18° 8 32'21			1673 Nov 01 19:29	0∘ <mark>⊽</mark>	
	1671 Apr 30 07:56	$\Pi^{\circ}0$			1673 Nov 26 15:50	0°M	
	1671 May 24 23:58	0°9			1673 Dec 20 23:39	0° ⊼	
	1671 Jun 18 23:33	$0^{\circ}\Omega$			1674 Jan 14 02:18	0°ਰ	
	1671 Jul 14 10:16	0° mp		desc. node	1674 Jan 25 07:39	13° る 59'42	
	1671 Aug 09 15:55	0∘ ರ ∘ .ಚ		dose. Hode	1674 Feb 07 03:32	0°≈	
desc. node	1671 Aug 10 12:29	° - 0° - 57'30			1674 Mar 03 05:15	0° ∀	
dese. Hode	1671 Sep 06 12:18	0°M		morning set	1674 Mar 15 18:51	15°) 37′58	
evening max el	1671 Sep 15 11:46	8°M58'40	46°29'21	morning set	1674 Mar 27 08:37	0° Υ	
evening max er	1671 Oct 09 21:37	0°×7	40 2721		1674 Apr 20 14:21	0°8	
greatest brilliancy	1671 Oct 09 21:37 1671 Oct 25 19:13	8° ∡ ³37'08	-4.9m		1074 Apr 20 14.21	00	
retrograde	1671 Oct 23 19:13 1671 Nov 04 06:02	10° ₹ 16'41	-4.9111	superior conj	1674 Apr 23 08:19	3° 8 23'34	0055100
evening set	1671 Nov 18 20:02	6° ₹ 05'39		minimum elong	1674 Apr 23 17:58	3° 8 53'20	
Č			1946120	_	•		
inferior conj	1671 Nov 24 18:38	2°× 7 37'41		max. Earth dist.	1674 Apr 26 01:51	6° 8 45'42 0° Ⅱ	1.73068 AU
minimum elong	1671 Nov 24 22:41	2° 🗷 31'33		1	1674 May 14 22:36		
min. Earth dist.	1671 Nov 25 01:14	2° x ⁷ 27'40	0.26510 AU	asc. node	1674 May 18 11:17	4° Ⅱ 20'17	
	1671 Nov 29 04:55	30°RM		evening rise	1674 May 30 17:44	19° ∏ 24′20	
morning rise	1671 Dec 01 01:06	28°M59'29			1674 Jun 08 09:00	0° ©	
asc. node	1671 Dec 01 15:59	28°M40'10			1674 Jul 02 21:18	Ω°	
direct	1671 Dec 15 06:30	24°M58'20	4.0		1674 Jul 27 11:59	0° m	
greatest brilliancy	1671 Dec 25 15:48	27°M02'02	-4.9m		1674 Aug 21 06:33	0∘ ⊽	
	1671 Dec 31 23:10	0° ∡ 7		desc. node	1674 Sep 07 00:24	20° Ω 06'34	
morning max el	1672 Feb 03 20:40	28° ∡ 10'07	46°52'55		1674 Sep 15 07:23	0° ™	
	1672 Feb 05 15:59	0°₹			1674 Oct 10 18:23	0°⊀ ⁷	
	1672 Mar 04 09:02	0° ≈			1674 Nov 06 01:18	0°₹	
desc. node	1672 Mar 22 05:22	20°≈26'46		evening max el	1674 Nov 27 08:40	22° る 46'59	47°19'09
	1672 Mar 30 10:02	0°) €			1674 Dec 04 15:25	0° ≈	
	1672 Apr 24 19:31	0° Υ		asc. node	1674 Dec 29 03:49	20°≈00'56	
	1672 May 19 21:35	0°8		greatest brilliancy	1675 Jan 07 00:34	24° ≈ 28'33	-4.9m
	1672 Jun 13 18:55	$\Pi^{\circ}0$		retrograde	1675 Jan 17 07:13	26° ≈ 30'06	
	1672 Jul 08 11:43	$0 {\circ} \mathfrak{S}$		evening set	1675 Feb 03 01:56	20° ≈ 58'41	
asc. node	1672 Jul 13 08:49	5° © 57'19		min. Earth dist.	1675 Feb 06 05:36	19° ≈ 03'04	0.27241 AU
	1672 Aug 01 23:26	0 $^{\circ}\Omega$		inferior conj	1675 Feb 07 02:27	18° ≈ 30'32	8°06'40
morning set	1672 Aug 03 00:33	1° Ω 17'16		minimum elong	1675 Feb 06 18:41	18° ≈ 42'40	8°05'41
	1672 Aug 26 06:11	0° m		morning rise	1675 Feb 10 11:41	16° ≈ 25'38	
max. Earth dist.	1672 Sep 05 02:14	12° m 12'47	1.72475 AU	direct	1675 Feb 27 15:59	10° ≈ 42'48	
				greatest brilliancy	1675 Mar 08 15:52	12° ≈ 13′50	-4.8m
superior conj	1672 Sep 08 15:04	16°M 36'30	1°24'45		1675 Apr 05 06:40	0°) €	
minimum elong	1672 Sep 08 15:52	16° Mp 39'00	1°24'45	morning max el	1675 Apr 18 03:12	11°) 52′10	46°12'59
	1672 Sep 19 09:07	0∘ ⊽		desc. node	1675 Apr 19 17:13	13°) €25'13	
	1672 Oct 13 09:55	0° M			1675 May 05 20:52	0° Y	
evening rise	1672 Oct 16 14:45	4°M00'00			1675 Jun 02 02:48	9° 8	
desc. node	1672 Nov 01 22:18	24°M23'32			1675 Jun 28 04:20	$\Pi^{\circ}0$	
desc. node	10/2 NOV 01 22.16	24 11623 32			1075 Juli 20 04.20	О Д	

	1675 Jul 23 13:54	0° ©			1678 Mar 07 10:54	0° ႘	
asc. node	1675 Aug 10 20:38	21° 9 58'37		greatest brilliancy	1678 Mar 18 16:46	5° 8 56'56	-4.8m
asc. Houe	1675 Aug 10 20:38 1675 Aug 17 11:19	21 3 3837		retrograde	1678 Mar 29 09:36	8° 8 05'04	-4.0111
	1675 Sep 10 22:40	0° m)		evening set	1678 Apr 14 22:33	2° 8 43'30	
	1675 Oct 05 02:26	0∘ ত رازا		evening set	•	2 0 43 30 30° R Υ	
		0° ച 9° ച 34'00		:£:	1678 Apr 19 08:47	30° γ 1 29° Υ 49'28	5050101
morning set	1675 Oct 12 18:13			inferior conj	1678 Apr 19 15:28		5°58'01
To all the	1675 Oct 29 01:32	0°M	1.71100 411	minimum elong	1678 Apr 20 01:15	29° Υ 34'03	5°55'54
max. Earth dist.	1675 Nov 19 23:52	27°M33'21	1.71190 AU	min. Earth dist.	1678 Apr 19 14:57	29°Υ50'17	0.28570 AU
	167537 01 01 10	200 m 5.424	0000100	morning rise	1678 Apr 25 04:18	26° Y 27′29	
superior conj	1675 Nov 21 01:42	28°M54'34	0°22'08	direct	1678 May 10 22:37	21°Υ38'12	
minimum elong	1675 Nov 21 07:15	29°M12'00	0°21'52	desc. node	1678 May 17 04:56	22°Y22'36	
	1675 Nov 21 22:30	0° ∡		greatest brilliancy	1678 May 20 19:16	23° Y 24'51	-4.7m
desc. node	1675 Nov 30 10:08	10° ∡ 740′17			1678 Jun 02 17:31	0° 8	
	1675 Dec 15 18:58	0°₹		morning max el	1678 Jun 28 18:58	21° 8 31'59	45°44'09
evening rise	1676 Jan 01 10:37	20°る55'52			1678 Jul 07 10:08	0° I I	
	1676 Jan 08 16:00	0° ≈			1678 Aug 04 13:25	0ංම	
	1676 Feb 01 14:58	0° ∀			1678 Aug 30 18:20	$0^{\circ}\Omega$	
	1676 Feb 25 18:07	0 ° $\mathbf{\gamma}$		asc. node	1678 Sep 07 08:36	8° Ω 56'58	
	1676 Mar 21 04:26	$0^{\circ}S$			1678 Sep 24 22:09	O° My	
asc. node	1676 Mar 22 13:31	1° 8 40'42			1678 Oct 19 10:15	0∘ ত	
	1676 Apr 15 01:41	Π $^{\circ}0$			1678 Nov 12 13:03	0°M₊	
	1676 May 10 15:30	0ංම			1678 Dec 06 11:16	0° ∡ ¹	
	1676 Jun 06 10:22	$0^{\circ}\Omega$		morning set	1678 Dec 26 14:43	25° ҂ 19'41	
evening max el	1676 Jul 01 03:12	25° Ω 20′16	45°28'20	desc. node	1678 Dec 27 21:49	26° ₰ 757'24	
	1676 Jul 06 02:49	0° m)			1678 Dec 30 07:54	ರ°0	
desc. node	1676 Jul 12 02:43	5° m 19'34			1679 Jan 23 04:41	0° ≈	
greatest brilliancy	1676 Aug 09 06:10	23° Mp 21'31	-4.7m				
retrograde	1676 Aug 18 20:26	25° m 01'29		superior conj	1679 Feb 06 09:14	17° ≈ 48'11	-1°17'40
evening set	1676 Sep 05 21:39	18° m 58'43		minimum elong	1679 Feb 05 23:56	17°≈19'03	1°17'29
inferior conj	1676 Sep 09 01:19	17° m 03'39	-8°43'37	max. Earth dist.	1679 Feb 09 23:02	22°≈17'02	1.71505 AU
minimum elong	1676 Sep 09 02:07	17° m) 02'26	8°43'36		1679 Feb 16 02:55	0°) €	
min. Earth dist.	1676 Sep 09 17:40	16° m/38'28	0.28298 AU		1679 Mar 12 03:51	0°Υ	
morning rise	1676 Sep 12 06:23	15° m 05'59		evening rise	1679 Mar 18 17:48	8° Υ 10'49	
direct	1676 Sep 30 08:40	8° m 55'08			1679 Apr 05 08:51	0°8	
greatest brilliancy	1676 Oct 11 12:09	11° m) 12'40	-4.8m	asc. node	1679 Apr 20 01:29	18° 8 05'06	
asc. node	1676 Nov 02 06:12	25° m) 14'58	1.0111	use. Houe	1679 Apr 29 19:01	0° I	
ase. Hode	1676 Nov 07 16:36	0° ೧			1679 May 24 11:20	0°e 0 π	
morning max el	1676 Nov 19 20:38	ა _ 11° ჲ 43'18	46°45'00		1679 Jun 18 11:33	0° U	
morning max ci	1676 Dec 07 00:20	0°M	40 45 00		1679 Jul 13 23:27	0°m)	
	1677 Jan 02 03:04	0° ⊼ 7			1679 Aug 09 07:20	0∘ ت بالا	
	1677 Jan 27 04:38	0°る		desc. node	1679 Aug 09 07:20 1679 Aug 09 14:29	0° = 0° = 19'54	
				desc. node	1679 Aug 09 14.29 1679 Sep 06 09:09		
	1677 Feb 20 20:19	0°≈			1	0°M	46926142
desc. node	1677 Feb 21 19:31	1°≈10'56 0° 米		evening max el	1679 Sep 13 01:29	6°M37'47	40°20'42
	1677 Mar 17 08:13	0° Υ			1679 Oct 11 00:24	0°×7	-4.9m
	1677 Apr 10 19:09			greatest brilliancy	1679 Oct 23 08:24	6° ₹ 10'41	-4.9m
	1677 May 05 06:20	0° 8		retrograde	1679 Nov 01 17:41	7°× 7 48'36	
morning set	1677 May 25 02:57	24° 8 20'20		evening set	1679 Nov 16 10:08	3° х 35′33	2010121
,	1677 May 29 17:47	0°II		inferior conj	1679 Nov 22 06:52	0° ₹09'53	
asc. node	1677 Jun 14 23:03	19° Ⅱ 53'38		minimum elong	1679 Nov 22 11:46	0° ₹ 02'26	2°08'57
	1677 Jun 23 04:37	0°€		min. Earth dist.	1679 Nov 22 15:00	29°M57'31	0.26540 AU
max. Earth dist.	1677 Jun 29 04:41	7° 5 22'33	1.73573 AU		1679 Nov 22 13:22	30°RM₊	
				morning rise	1679 Nov 28 13:06	26°M31'33	
superior conj	1677 Jun 30 17:17	9° © 15'04	0°36'17	asc. node	1679 Nov 30 17:55	25°M25'41	
minimum elong	1677 Jun 30 10:33	8°954'21	0°35'59	direct	1679 Dec 12 19:10	22°M30'07	
	1677 Jul 17 13:58	0 $^{\circ}$ Ω		greatest brilliancy	1679 Dec 23 05:52	24°M34'41	-4.9m
evening rise	1677 Aug 05 12:22	23° Ω 20'47			1680 Jan 02 14:35	0°⊀	
	1677 Aug 10 21:45	0° m y		morning max el	1680 Feb 01 08:59	25° ≯ 41'50	46°53'33
	1677 Sep 04 04:51	0∘ ⊽			1680 Feb 05 13:56	0°ರ	
	1677 Sep 28 12:33	0° M.			1680 Mar 04 01:12	0° ≈	
desc. node	1677 Oct 04 12:26	7°M23'08		desc. node	1680 Mar 21 07:32	19° ≈ 51′05	
	1677 Oct 22 21:54	0° ∡			1680 Mar 29 23:53	0°) €	
	1677 Nov 16 10:13	0°ಕ			1680 Apr 24 08:06	$0^{\circ}\Upsilon$	
	1677 Dec 11 04:56	0° ≈			1680 May 19 09:23	9° 8	
	1678 Jan 05 15:14	0°) €			1680 Jun 13 06:12	$\Pi^{\circ}0$	
asc. node	1678 Jan 25 15:40	22°) 27′07			1680 Jul 07 22:41	0 \circ \odot	
	1678 Feb 01 17:52	$0^{\circ}\mathbf{\Upsilon}$		asc. node	1680 Jul 12 10:52	5° 5 30'11	
evening max el	1678 Feb 07 02:18	5° Y 29'46	46°44'08	morning set	1680 Jul 31 18:18	29° © 10'54	

	1680 Aug 01 10:15	0°N		min. Earth dist.	1683 Feb 03 18:47	16° ≈ 37'39	0.27185 AU
	1680 Aug 25 17:00	0° mp		inferior conj	1683 Feb 04 15:47	16° ≈ 05'00	7°57'07
max. Earth dist.	1680 Sep 02 17:29	9° m 57'25	1.72531 AU	minimum elong	1683 Feb 04 07:25	16° ≈ 18′02	7°55'57
	-			morning rise	1683 Feb 08 03:38	13° ≈ 56'31	
superior conj	1680 Sep 06 07:58	14° m 26'10	1°24'49	direct	1683 Feb 25 04:21	8° ≈ 17'54	
minimum elong	1680 Sep 06 08:02	14° Mp 26′20	1°24'49	greatest brilliancy	1683 Mar 06 05:10	9° ≈ 49'52	-4.8m
	1680 Sep 18 20:01	0∘ 亚			1683 Apr 05 12:42	0° ∀	
	1680 Oct 12 20:58	0°M₊		morning max el	1683 Apr 15 16:55	9°) €31'31	46°14'36
evening rise	1680 Oct 14 04:19	1°M37'51		desc. node	1683 Apr 18 19:16	12°) ₹34'35	
desc. node	1680 Nov 01 00:21	23°M54'56			1683 May 05 14:52	0° Y	
	1680 Nov 05 21:15	0° ∡			1683 Jun 01 17:17	0°8	
	1680 Nov 29 21:49	0°ರ			1683 Jun 27 17:13	0°Щ	
	1680 Dec 23 23:56	0° ≈			1683 Jul 23 01:54	0ა ௐ	
	1681 Jan 17 06:13	0° ∀		asc. node	1683 Aug 09 22:45	21° © 29'54	
	1681 Feb 10 21:45	0°Υ			1683 Aug 16 22:49	Ω°	
asc. node	1681 Feb 22 03:35	13° Y 25′28			1683 Sep 10 09:53	0° m	
	1681 Mar 08 07:36	0° B		· ,	1683 Oct 04 13:32	0∘ ⊽	
arranina marral	1681 Apr 04 06:51	0° Ⅱ 15° Ⅲ 02!45	45020122	morning set	1683 Oct 10 08:59	7° Ω 15'23	
evening max el	1681 Apr 19 01:38 1681 May 05 17:46	15° Ⅱ 03'45 0° ©	45°38'22	max. Earth dist.	1683 Oct 28 12:39 1683 Nov 17 11:25	0°M 25°M 03!37	1.71218 AU
greatest brilliancy	1681 May 26 22:30	13° 5 06'19	-4.7m	max. Earm dist.	1003 NOV 17 11.23	23 1160337	1./1216 AU
retrograde	1681 Jun 06 20:34	15° © 15'19	-4.7111	superior conj	1683 Nov 18 13:04	26°M24'16	0°25'50
desc. node	1681 Jun 13 16:52	13 © 13 19		minimum elong	1683 Nov 18 19:26	26°M44'15	0°25'31
evening set	1681 Jun 22 01:16	10°949'55		minimum clong	1683 Nov 21 09:41	0° √	0 23 31
inferior conj	1681 Jun 28 09:01	7° © 02'27	-3°21'46	desc. node	1683 Nov 29 12:06	10° √ 11'15	
minimum elong	1681 Jun 28 02:05	7°913'19	3°19'53	desc. node	1683 Dec 15 06:14	0°る	
min. Earth dist.	1681 Jun 28 07:34	7°504'44	0.28985 AU	evening rise	1683 Dec 29 20:45	18° る 21'29	
morning rise	1681 Jul 04 02:49	3°533'43		V . V	1684 Jan 08 03:20	0° ≈	
S	1681 Jul 12 01:06	30° Ŗ Ⅱ			1684 Feb 01 02:24	0°) €	
direct	1681 Jul 20 00:39	28° Ⅱ 45'07			1684 Feb 25 05:43	$0^{\circ}\mathbf{Y}$	
	1681 Jul 28 07:31	0°©			1684 Mar 20 16:23	0°8	
greatest brilliancy	1681 Jul 30 11:20	0°9542'06	-4.7m	asc. node	1684 Mar 21 15:36	1° 8 10'37	
morning max el	1681 Sep 07 01:55	28° © 57'39	46°00'45		1684 Apr 14 14:16	Π $^{\circ}0$	
	1681 Sep 08 03:32	$0^{\circ}\Omega$			1684 May 10 05:23	0 \circ \odot	
asc. node	1681 Oct 04 20:31	28° Ω 09'43			1684 Jun 06 03:08	0 $^{\circ}\Omega$	
	1681 Oct 06 11:56	0° m ∕		evening max el	1684 Jun 28 18:42	23° Ω 07'39	45°27'26
	1681 Nov 01 09:04	0∘ ⊽			1684 Jul 06 05:02	0° ™	
	1681 Nov 26 04:26	0° M		desc. node	1684 Jul 11 04:48	4° ™ 20'05	
	1681 Dec 20 11:43	0° ∡ ¹		greatest brilliancy	1684 Aug 06 18:27	21° m 04'14	-4.7m
	1682 Jan 13 14:01	0°₹		retrograde	1684 Aug 16 11:16	22° m 45'53	
desc. node	1682 Jan 24 09:46	13° る 30'09		evening set	1684 Sep 03 11:28	16° M 43'44	
	1682 Feb 06 15:00	0° ≈		inferior conj	1684 Sep 06 16:02	14° m 47'09	
	1682 Mar 02 16:31	0° ∀		minimum elong	1684 Sep 06 16:00	14° m 47'13	
morning set	1682 Mar 13 07:37	13° ¥ 13'45		min. Earth dist.	1684 Sep 07 07:05	14° m) 23'57	0.28350 AU
	1682 Mar 26 19:43	0°Υ		morning rise	1684 Sep 09 20:21	12° Mp 50'34	
	1682 Apr 20 01:20	0° 8		direct	1684 Sep 28 00:33	6° Mp 38'05	4.0
superior conj	1682 Apr 20 23:53	1° 8 09'35	0057142	greatest brilliancy asc. node	1684 Oct 09 02:16 1684 Nov 01 08:05	8° m 54'13 24° m 09'56	-4.8m
minimum elong	1682 Apr 21 09:42	1° 8 39'54		asc. node	1684 Nov 07 08:03	0° ⊽	
max. Earth dist.	1682 Apr 23 18:45		1.73023 AU	morning max el	1684 Nov 17 12:05	9° ≏ 24'33	46°43'48
max. Lattii dist.	1682 May 14 09:34	0°II	1.73023 AO	morning max cr	1684 Dec 06 17:57	0°M	40 43 40
asc. node	1682 May 17 13:14	3°II52'36			1685 Jan 01 17:42	0° ⊼	
evening rise	1682 May 28 11:29	17° Ⅱ 17'47			1685 Jan 26 17:52	0°ਤ	
<i>8</i>	1682 Jun 07 20:03	0°ಅ			1685 Feb 20 08:45	0° ≈	
	1682 Jul 02 08:32	$0^{\circ}\Omega$		desc. node	1685 Feb 20 21:39	0° ≈ 39'29	
	1682 Jul 26 23:33	0° m)			1685 Mar 16 20:07	0°) €	
	1682 Aug 20 18:42	0∘ ⊽			1685 Apr 10 06:40	$0^{\circ}\mathbf{Y}$	
desc. node	1682 Sep 06 02:34	19° ≏ 34'57			1685 May 04 17:34	0°B	
	1682 Sep 14 20:29	0° M		morning set	1685 May 22 20:26	22° 8 12'52	
	1682 Oct 10 09:05	0° ∡ ¹			1685 May 29 04:49	$\Pi^{\circ}0$	
	1682 Nov 05 19:10	0°ರ		asc. node	1685 Jun 14 01:03	19° Ⅱ 26′13	
evening max el	1682 Nov 24 21:47	20° る 19'53	47°18'39		1685 Jun 22 15:33	0 \circ \odot	
	1682 Dec 04 18:33	0° ≈		max. Earth dist.	1685 Jun 27 03:41	5° © 32'07	1.73584 AU
asc. node	1682 Dec 28 05:53	18° ≈ 28'25					
greatest brilliancy	1683 Jan 04 14:40	22° ≈ 02'08	-4.9m	superior conj	1685 Jun 28 11:26	7° 5 09'42	
retrograde	1683 Jan 14 20:48	24°≈03'43		minimum elong	1685 Jun 28 05:07	6° © 50'19	0°33'07
evening set	1683 Jan 31 11:27	18° ≈ 38'18			1685 Jul 17 00:55	$0 {\circ} \Omega$	

evening rise	1685 Aug 03 06:40	21° Ω 15'04			1688 Jan 03 18:21	0° ∡ ¹	
evening rise	1685 Aug 10 08:50	0° m)		morning max el	1688 Jan 29 21:04	23° х 12'38	46°54'28
	1685 Sep 03 16:12	0∘ ⊽		morning max ci	1688 Feb 05 11:08	23×1236	40 34 20
	1685 Sep 28 00:14	0° m .			1688 Mar 03 17:04	0° ≈	
desc. node	1685 Oct 03 14:28	6°ML53'08		desc. node	1688 Mar 20 09:34	19°≈15'30	
dese. node	1685 Oct 22 10:01	0° ∡ 7		dese. node	1688 Mar 29 13:31	0° ∀	
	1685 Nov 15 22:55	0° ਰ			1688 Apr 23 20:33	0°Υ	
	1685 Dec 10 18:37	0° ≈			1688 May 18 21:06	0°8	
	1686 Jan 05 06:49	0°) €			1688 Jun 12 17:27	0°II	
asc. node	1686 Jan 24 17:45	21°) 42'32			1688 Jul 07 09:39	0°9	
	1686 Feb 01 14:22	0°Υ		asc. node	1688 Jul 11 13:00	5° © 03'19	
evening max el	1686 Feb 04 18:14	3° Ƴ 13'40	46°46'19	morning set	1688 Jul 29 11:55	27° © 04'06	
Č	1686 Mar 08 17:15	0°B		Č	1688 Jul 31 21:06	$0^{\circ}\Omega$	
greatest brilliancy	1686 Mar 16 09:16	3° 8 43'29	-4.8m		1688 Aug 25 03:49	0° m)	
retrograde	1686 Mar 27 01:57	5° 8 51'07		max. Earth dist.	1688 Aug 31 10:37	7° Mp 47'58	1.72585 AU
evening set	1686 Apr 12 17:18	0° 8 25'45			C	•	
C	1686 Apr 13 10:31	30° Ŗ ♈		superior conj	1688 Sep 04 00:49	12° m 15'42	1°24'45
inferior conj	1686 Apr 17 07:16	27° Ƴ 35'43	6°12'50	minimum elong	1688 Sep 04 00:08	12° m) 13'35	
minimum elong	1686 Apr 17 17:05	27° Y 20'13	6°10'48		1688 Sep 18 06:54	$0 \circ \overline{\mathbf{v}}$	
min. Earth dist.	1686 Apr 17 06:03	27° Ƴ 37'37	0.28543 AU	evening rise	1688 Oct 11 18:00	29° ≙ 16'17	
morning rise	1686 Apr 22 17:17	24° Ƴ 17'40		Č	1688 Oct 12 08:00	0°M	
direct	1686 May 08 14:31	19° Ƴ 25'12		desc. node	1688 Oct 31 02:19	23°M26'03	
desc. node	1686 May 16 06:54	20° Ƴ 31′20			1688 Nov 05 08:29	0° ∡ 7	
greatest brilliancy	1686 May 18 09:05	21° Y 10'19	-4.7m		1688 Nov 29 09:18	6°5	
· ·	1686 Jun 03 14:57	0°B			1688 Dec 23 11:41	0° ≈	
morning max el	1686 Jun 26 10:32	19° 8 20'25	45°44'17		1689 Jan 16 18:21	0°) €	
5 5	1686 Jul 07 05:41	0°II			1689 Feb 10 10:33	0° Υ	
	1686 Aug 04 04:18	0ංම		asc. node	1689 Feb 21 05:40	12° Y 52'16	
	1686 Aug 30 07:21	$0^{\circ}\Omega$			1689 Mar 07 21:48	0°8	
asc. node	1686 Sep 06 10:39	8° Ω 25'23			1689 Apr 04 00:38	$\Pi^{\circ}0$	
	1686 Sep 24 10:17	0°m		evening max el	1689 Apr 16 16:15	12° ∏ 49'43	45°40'02
	1686 Oct 18 21:56	0∘ <u>⊽</u>		Č	1689 May 06 03:41	0ಂಣ	
	1686 Nov 12 00:30	0°M		greatest brilliancy	1689 May 24 14:45	10°958'03	-4.7m
	1686 Dec 05 22:34	0° ∡ 7		retrograde	1689 Jun 04 13:04	13° © 07'47	
morning set	1686 Dec 24 00:59	22° ∡ 745'49		desc. node	1689 Jun 12 18:58	11° © 46'56	
desc. node	1686 Dec 26 23:57	26° ⊀ ¹28'56		evening set	1689 Jun 19 16:54	8°543'02	
	1686 Dec 29 19:05	0°రె		inferior conj	1689 Jun 26 01:37	4°£54'33	-3°03'31
	1687 Jan 22 15:48	0° ≈		minimum elong	1689 Jun 25 19:13	5° © 04'34	3°01'46
				min. Earth dist.	1689 Jun 26 00:23	4°\$56'29	0.28986 AU
superior conj	1687 Feb 03 20:06	15°≈17'03	-1°15'55	morning rise	1689 Jul 01 21:24	1° © 23'03	
minimum elong	1687 Feb 03 10:10	14° ≈ 45'55	1°15'41		1689 Jul 04 12:02	30°R Ⅱ	
max. Earth dist.	1687 Feb 07 10:37	19° ≈ 48'14	1.71460 AU	direct	1689 Jul 17 16:34	26° Ⅱ 36'59	
	1687 Feb 15 13:58	0° ∀		greatest brilliancy	1689 Jul 28 04:14	28° ∏ 34'34	-4.7m
	1687 Mar 11 14:54	0° Υ			1689 Jul 31 16:13	0°ಲಾ	
evening rise	1687 Mar 16 06:40	5° Ƴ 47'25		morning max el	1689 Sep 04 17:28	26°5945'42	45°59'30
•	1687 Apr 04 19:57	0°8			1689 Sep 08 00:45	$0^{\circ}\Omega$	
asc. node	1687 Apr 19 03:25	17° 8 36'43		asc. node	1689 Oct 03 22:27	27° Ω 31'29	
	1687 Apr 29 06:16	$\Pi^{\circ}0$			1689 Oct 06 03:19	0° m p	
	1687 May 23 22:57	0ංම			1689 Oct 31 22:23	0∘ ⊽	
	1687 Jun 17 23:50	$0^{\circ}\Omega$			1689 Nov 25 16:47	0° M	
	1687 Jul 13 12:56	0° m			1689 Dec 19 23:33	0°⊀	
desc. node	1687 Aug 08 16:39	29° m/41'52			1690 Jan 13 01:32	ರ°0	
	1687 Aug 08 23:12	0∘ ⊽		desc. node	1690 Jan 23 11:50	13° る 01'03	
	1687 Sep 06 06:56	0° M ₊			1690 Feb 06 02:16	0° ≈	
evening max el	1687 Sep 10 14:06	4° M ₊13'50	46°24'02		1690 Mar 02 03:34	0° ∀	
	1687 Oct 12 14:34	0° ∡ ¹		morning set	1690 Mar 10 20:24	10°) (50′07	
greatest brilliancy	1687 Oct 20 22:02	3° ∡ ⁴44′21	-4.9m		1690 Mar 26 06:33	$0^{\circ}\mathbf{\Upsilon}$	
retrograde	1687 Oct 30 05:00	5° ≯ 20′20					
evening set	1687 Nov 14 00:22	1° х 04'45		superior conj	1690 Apr 18 15:40	28° Y 57'04	-1°00'12
-	1687 Nov 15 22:44	30°RML		minimum elong	1690 Apr 19 01:37	29° Y 27'47	0°59'51
inferior conj	1687 Nov 19 19:06	27°M41'52	-2°34'01	_	1690 Apr 19 12:03	9° 8	
minimum elong	1687 Nov 20 00:49	27°M33'10	2°32'15	max. Earth dist.	1690 Apr 21 11:36	2° 8 26'48	1.72975 AU
min. Earth dist.	1687 Nov 20 05:05	27°M26'39	0.26571 AU		1690 May 13 20:14	$\Pi^{\circ}0$	
morning rise	1687 Nov 26 00:50	24°ML03'43		asc. node	1690 May 16 15:20	3°Ⅱ26'16	
asc. node	1687 Nov 29 20:00	22°M15'05		evening rise	1690 May 26 05:33	15° Ⅱ 13'10	
direct	1687 Dec 10 07:19	20°M01'20		-	1690 Jun 07 06:48	0ಂತಾ	
greatest brilliancy	1687 Dec 20 20:28	22°M07'39	-4.9m		1690 Jul 01 19:30	$0^{\circ}\Omega$	
-							

	1600 Jul 26 10:54	0° m/y			1602 Mar 16 07:27	0°) €	
	1690 Jul 26 10:54	0∘ ʊ ೧.װ⁄			1693 Mar 16 07:37	0° Υ 0° Υ	
daga mada	1690 Aug 20 06:41	19° £ 03'13			1693 Apr 09 17:48 1693 May 04 04:26	0° ∀	
desc. node	1690 Sep 05 04:31 1690 Sep 14 09:27	0°M		morning set	1693 May 20 14:04	20° 8 07'01	
	•	0 IIL 0° √ 7		morning set	•	20 3 0/01 0° Π	
	1690 Oct 09 23:44 1690 Nov 05 13:08	0 x.		asc. node	1693 May 28 15:28 1693 Jun 13 03:14	0 <u>П</u> 19° П 00'31	
avanina may al		17° る 55'48	47°18'10	asc. node	1693 Jun 13 03:14 1693 Jun 22 02:05	0°€	
evening max el	1690 Nov 22 11:42	17 O 3348 0° ≈	4/ 1810	max. Earth dist.	1693 Jun 25 01:50	0 ৩ 3°©40'19	1 72507 AII
aca mada	1690 Dec 04 23:00	0 ≈ 16°≈53'30		max. Earth dist.	1093 Juli 23 01.30	3 2 40 19	1.73587 AU
asc. node	1690 Dec 27 07:59		4.0		1602 1 26 05 54	5000000	0020121
greatest brilliancy	1691 Jan 02 04:13	19°≈35'52	-4.9m	superior conj	1693 Jun 26 05:54	5°506'36	0°30'31
retrograde	1691 Jan 12 10:56	21°≈38'02		minimum elong	1693 Jun 26 00:04	4°9548'38	0°30'14
evening set	1691 Jan 28 20:56	16°≈18'29	0.27120 411		1693 Jul 16 11:27	0° N	
min. Earth dist.	1691 Feb 01 07:41	14°≈13'08	0.27128 AU	evening rise	1693 Aug 01 01:24	19° Ω 12'03	
inferior conj	1691 Feb 02 05:03	13°≈40'00	7°46'44		1693 Aug 09 19:30	0° m)	
minimum elong	1691 Feb 01 20:09	13°≈53'49	7°45'22		1693 Sep 03 03:07	0∘ 亚	
morning rise	1691 Feb 05 19:42	11°≈27'47			1693 Sep 27 11:32	0°M.	
direct	1691 Feb 22 17:09	5° ≈ 53'37		desc. node	1693 Oct 02 16:29	6° M 24'16	
greatest brilliancy	1691 Mar 03 18:00	7°≈26'02	-4.9m		1693 Oct 21 21:49	0° ∡ 7	
	1691 Apr 05 16:26	0° ∀			1693 Nov 15 11:25	0°る	
morning max el	1691 Apr 13 07:37	7°) 14′10	46°16'20		1693 Dec 10 08:11	0° ≈	
desc. node	1691 Apr 17 21:12	11°) (45'30			1694 Jan 04 22:24	0° ∀	
	1691 May 05 08:05	0° Υ		asc. node	1694 Jan 23 19:48	20° ¥ 57'58	
	1691 Jun 01 07:13	0°8			1694 Feb 01 11:17	0° Υ	
	1691 Jun 27 05:36	Π °0		evening max el	1694 Feb 02 09:26	0° Y 56′11	46°48'32
	1691 Jul 22 13:28	0			1694 Mar 10 13:31	0°8	
asc. node	1691 Aug 09 00:48	21° © 02'13		greatest brilliancy	1694 Mar 14 02:17	1° 8 31'09	-4.8m
	1691 Aug 16 09:56	$0 {\circ} \Omega$		retrograde	1694 Mar 24 17:46	3° 8 37'36	
	1691 Sep 09 20:47	O° m y			1694 Apr 07 04:10	30° ጺƳ	
	1691 Oct 04 00:21	0∘ ⊽		evening set	1694 Apr 10 11:59	28° Ƴ 08'32	
morning set	1691 Oct 07 23:50	4° £ 58′00		inferior conj	1694 Apr 14 23:00	25° Y ′22'35	6°27'15
	1691 Oct 27 23:29	0°M		minimum elong	1694 Apr 15 08:47	25° Y '07'07	6°25'18
max. Earth dist.	1691 Nov 14 21:42	22°M30'53	1.71244 AU	min. Earth dist.	1694 Apr 14 21:22	25° Y 25′10	0.28512 AU
				morning rise	1694 Apr 20 05:59	22° Y 08'35	
superior conj	1691 Nov 16 00:27	23°M54'58	0°29'28	direct	1694 May 06 05:56	17° Ƴ 12'49	
minimum elong	1691 Nov 16 07:34	24° M 17'17	0°29'08	desc. node	1694 May 15 09:07	18° Ƴ 44'57	
	1691 Nov 20 20:35	0° ∡		greatest brilliancy	1694 May 15 23:09	18° Ƴ 56'37	-4.7m
desc. node	1691 Nov 28 14:15	9° ∡ ¹43'45			1694 Jun 04 06:27	0° ႘	
	1691 Dec 14 17:11	8°0		morning max el	1694 Jun 24 01:25	17° 8 07'58	45°44'39
evening rise	1691 Dec 27 06:46	15° る 47'42			1694 Jul 07 00:19	$\Pi^{\circ}0$	
	1692 Jan 07 14:21	0° ≈			1694 Aug 03 18:36	0 \circ \odot	
	1692 Jan 31 13:31	0° ∀			1694 Aug 29 19:54	$0^{\circ}\Omega$	
	1692 Feb 24 17:02	0 ° Υ		asc. node	1694 Sep 05 12:39	7° Ω 54'57	
	1692 Mar 20 04:02	0° ႘			1694 Sep 23 21:59	0° m ∕	
asc. node	1692 Mar 20 17:33	0° 8 41'06			1694 Oct 18 09:13	0∘ ত	
	1692 Apr 14 02:32	$\Pi^{\circ}0$			1694 Nov 11 11:36	0° M	
	1692 May 09 18:56	0 \circ \odot			1694 Dec 05 09:34	0° ∡ ¹	
	1692 Jun 05 19:42	$\mathfrak{O}^{\circ}\mathfrak{O}$		morning set	1694 Dec 21 10:59	20° ∡ 11'48	
evening max el	1692 Jun 26 10:39	20° Ω 57'42	45°26'35	desc. node	1694 Dec 26 02:03	26° ₮ 01'05	
	1692 Jul 06 08:02	0° m)			1694 Dec 29 06:02	8°0	
desc. node	1692 Jul 10 06:54	3° m 20'59			1695 Jan 22 02:43	0° ≈	
greatest brilliancy	1692 Aug 04 07:21	18° m 49'47	-4.7m				
retrograde	1692 Aug 14 01:58	20° m 32'28		superior conj	1695 Feb 01 06:22	12° ≈ 44'35	-1°13'59
evening set	1692 Sep 01 01:13	14° m 31'46		minimum elong	1695 Jan 31 19:51	12° ≈ 11'37	1°13'42
inferior conj	1692 Sep 04 07:03	12° m/32'58	-8°42'35	max. Earth dist.	1695 Feb 04 17:46	17° ≈ 06′03	1.71416 AU
minimum elong	1692 Sep 04 06:10	12° Mp 34'20	8°42'34		1695 Feb 15 00:51	0°) €	
min. Earth dist.	1692 Sep 04 20:54	12° Mp 11'35	0.28403 AU		1695 Mar 11 01:46	0° Y	
morning rise	1692 Sep 07 10:58	10° m 36'46		evening rise	1695 Mar 13 18:50	3° Y '22'20	
direct	1692 Sep 25 16:40	4° Mp 23′25			1695 Apr 04 06:51	9° 8	
greatest brilliancy	1692 Oct 06 16:33	6°₩37'39	-4.8m	asc. node	1695 Apr 18 05:32	17° 8 09'32	
asc. node	1692 Oct 31 10:13	23° m 08'08			1695 Apr 28 17:19	Π $\circ 0$	
	1692 Nov 07 22:02	0∘ ⊽			1695 May 23 10:22	0ಂತಾ	
morning max el	1692 Nov 15 03:10	7° ჲ 05'59	46°42'22		1695 Jun 17 11:56	$0^{\circ}\Omega$	
-	1692 Dec 06 10:54	0° M			1695 Jul 13 02:15	0° m/	
	1693 Jan 01 07:54	0° ∡ ″		desc. node	1695 Aug 07 18:39	29° m 04'01	
	1693 Jan 26 06:43	8°0			1695 Aug 08 14:58	0∘ <u>⊽</u>	
desc. node	1693 Feb 19 23:42	0° ≈ 08'55			1695 Sep 06 05:04	0°M	
	1693 Feb 19 20:47	0° ≈		evening max el	1695 Sep 08 02:20	1°M50'22	46°21'34
	10/31 00 1/ 20.4/						

	1695 Oct 15 00:07	0° ∡ 7		morning set	1698 Mar 08 08:58	8° ∺ 25'37	
greatest brilliancy	1695 Oct 18 11:40	1° √ 19'53	-4.9m	morning sec	1698 Mar 25 17:28	0°Υ	
retrograde	1695 Oct 27 16:37	2° ₹ 54'27				• .	
	1695 Nov 08 19:48	30°RM₊		superior conj	1698 Apr 16 06:59	26° Ƴ 42'39	-1°02'37
evening set	1695 Nov 11 14:58	28°M35'36		minimum elong	1698 Apr 16 17:00	27° Y 13'33	1°02'16
inferior conj	1695 Nov 17 07:38	25°M15'53	-2°56'56	Č	1698 Apr 18 22:52	0°8	
minimum elong	1695 Nov 17 14:06	25°M06'01	2°54'57	max. Earth dist.	1698 Apr 19 03:56	0° 8 15'38	1.72932 AU
min. Earth dist.	1695 Nov 17 19:23	24°M57'59	0.26612 AU		1698 May 13 07:03	Π $^{\circ}0$	
morning rise	1695 Nov 23 12:41	21°M38'22		asc. node	1698 May 15 17:26	2° ∏ 59′29	
asc. node	1695 Nov 28 22:08	19°M11'46		evening rise	1698 May 23 23:06	13° Ⅱ 06'30	
direct	1695 Dec 07 19:42	17° M 34'15			1698 Jun 06 17:42	0 \circ \odot	
greatest brilliancy	1695 Dec 18 11:36	19°M42'49	-4.9m		1698 Jul 01 06:37	0 ° Ω	
	1696 Jan 04 14:09	0°⊀			1698 Jul 25 22:25	0° m)	
morning max el	1696 Jan 27 10:03	20° ∡ 46′13	46°55'03		1698 Aug 19 18:51	0∘ ত	
	1696 Feb 05 07:27	0°る		desc. node	1698 Sep 04 06:34	18° ≏ 31'13	
	1696 Mar 03 08:36	0° ≈			1698 Sep 13 22:40	0° ™	
desc. node	1696 Mar 19 11:33	18°≈40'15			1698 Oct 09 14:41	0° ⊼	
	1696 Mar 29 03:00	0°) €			1698 Nov 05 07:38	0°る	45015145
	1696 Apr 23 08:52	$^{\circ \gamma}$		evening max el	1698 Nov 20 02:48	15°₹34'43	47°17'45
	1696 May 18 08:41	0°B 8°0			1698 Dec 05 05:24	0°≈	
	1696 Jun 12 04:35 1696 Jul 06 20:30	0₀© 0∘П		asc. node	1698 Dec 26 09:59 1698 Dec 30 17:39	15°≈15'14 17°≈09'46	4.0
asc. node	1696 Jul 10 14:59	0 ع 4°936'20		greatest brilliancy retrograde	1699 Jan 10 01:25	17 ≈0946 19°≈12'33	-4.9111
morning set	1696 Jul 27 05:32	24° © 57'42		evening set	1699 Jan 26 06:34	13°≈59'00	
morning set	1696 Jul 31 07:49	0°Ω		min. Earth dist.	1699 Jan 29 20:33	13 ≈ 3700	0.27071 AU
	1696 Aug 24 14:31	0° mp		inferior conj	1699 Jan 30 18:26	11°≈15'14	7°35'27
max. Earth dist.	1696 Aug 29 05:06	5° Mp 43'04	1.72634 AU	minimum elong	1699 Jan 30 09:06	11°≈29'42	7°33'54
man. Darm disc.	10,01148 2, 00.00		1.,203.110	morning rise	1699 Feb 03 11:59	8°≈59'05	, 330.
superior conj	1696 Sep 01 17:54	10° m 06'23	1°24'33	direct	1699 Feb 20 06:33	3° ≈ 29'50	
minimum elong	1696 Sep 01 16:31	10° m 02'04	1°24'33	greatest brilliancy	1699 Mar 01 06:32	5°≈02'01	-4.9m
Č	1696 Sep 17 17:39	0∘ ⊽		,	1699 Apr 05 18:36	0° ∀	
evening rise	1696 Oct 09 08:13	26° ჲ 57'00		morning max el	1699 Apr 10 22:27	4° ¥ 56'57	46°17'44
	1696 Oct 11 18:52	0° M		desc. node	1699 Apr 16 23:26	10°) € 57'49	
desc. node	1696 Oct 30 04:29	22°M58'25			1699 May 05 01:06	0° Y	
	1696 Nov 04 19:32	0° ∡			1699 May 31 21:15	0° 8	
	1696 Nov 28 20:36	5°0			1699 Jun 26 18:12	Π °0	
	1696 Dec 22 23:19	0° ≈			1699 Jul 22 01:16	0 \circ	
	1697 Jan 16 06:25	0° ∀		asc. node	1699 Aug 08 02:49	20° © 33'40	
	1697 Feb 09 23:24	0° Υ			1699 Aug 15 21:15	0 $^{\circ}$ Ω	
asc. node	1697 Feb 20 07:37	12° Y 18′25			1699 Sep 09 07:52	0° m/	
	1697 Mar 07 12:14	0°8			1699 Oct 03 11:22	0∘ ⊽	
	1697 Apr 03 19:01	0°II		morning set	1699 Oct 05 14:33	2° Ω 39'45	
evening max el	1697 Apr 14 07:26	10° Ⅱ 36'38	45°41'50	E d F	1699 Oct 27 10:32	0°M	1 71270 444
	1697 May 06 17:26	0°95	4.7	max. Earth dist.	1699 Nov 12 05:20	19°11649'15	1.71270 AU
greatest brilliancy	1697 May 22 06:20 1697 Jun 02 05:46	8°548'18	-4.7m		1(00 N 12 11.50	210 m 25120	0922102
retrograde desc. node	1697 Jun 02 05:46 1697 Jun 11 21:02	10° © 59'18 9° © 08'33		superior conj minimum elong	1699 Nov 13 11:58 1699 Nov 13 19:45	21°M25'28 21°M49'56	0°33'03 0°32'42
evening set	1697 Jun 17 08:28	6°934'58		minimum clong	1699 Nov 20 07:41	21 11 0 49 30	0 3242
inferior conj	1697 Jun 23 17:56	2°945'37	-2°44'53	desc. node	1699 Nov 27 16:18	9° √ 15'14	
minimum elong	1697 Jun 23 12:07	2°954'43	2°43'15	desc. node	1699 Dec 14 04:20	0°る	
min. Earth dist.	1697 Jun 23 16:41	2°547'34	0.28984 AU	evening rise	1699 Dec 24 16:51	13° る 13'29	
	1697 Jun 28 06:00	30°R∏			1700 Jan 07 01:33	0° ≈	
morning rise	1697 Jun 29 15:39	29° Ⅱ 11'39			1700 Jan 31 00:48	0°) €	
direct	1697 Jul 15 08:37	24° Ⅱ 27'52			1700 Feb 24 04:30	$0^{\circ}\Upsilon$	
greatest brilliancy	1697 Jul 25 20:28	26° Ⅱ 25'50	-4.7m	asc. node	1700 Mar 20 19:41	0° 8 11'38	
	1697 Aug 02 14:13	0 \circ \odot			1700 Mar 20 15:51	0° 8	
morning max el	1697 Sep 02 09:47	24° © 35'37	45°58'23		1700 Apr 14 15:04	Π °0	
	1697 Sep 07 21:19	$0^{\circ}\Omega$			1700 May 10 08:54	0 \circ \odot	
asc. node	1697 Oct 03 00:33	26° Ω 54'04			1700 Jun 06 12:59	0 ° Ω	
	1697 Oct 05 18:29	0° m/		evening max el	1700 Jun 25 02:09	18° Ω 45′28	45°25'40
	1697 Oct 31 11:35	0∘ ⊽			1700 Jul 07 13:25	0° ™	
	1697 Nov 25 05:02	0°M		desc. node	1700 Jul 10 08:54	2° m 19'02	
	1697 Dec 19 11:17	0° ⊀ ⁷		greatest brilliancy	1700 Aug 02 20:51	16° m 34'39	-4.7m
, ,	1698 Jan 12 12:58	0°る		retrograde	1700 Aug 12 16:06	18° Mp 17'42	
desc. node	1698 Jan 22 13:49	12° る 31'59		evening set	1700 Aug 30 14:32	12° Mp 19'12	0040153
	1698 Feb 05 13:29	0° ₩		inferior conj	1700 Sep 02 22:00	10° Mp 17'42	
	1698 Mar 01 14:35	υπ		minimum elong	1700 Sep 02 20:17	10° m 20'22	0 40 30

min. Earth dist.	1700 Sep 03 11:01	•	0.28452 AU		1703 Mar 11 12:57	0° Υ	
morning rise	1700 Sep 06 01:52	8°Mp21'16		evening rise	1703 Mar 12 07:00	0° Y 56′09	
direct	1700 Sep 24 08:16	2° m 07'39			1703 Apr 04 18:03	0° 8	
greatest brilliancy	1700 Oct 05 07:11	4° Mp 20′25	-4.8m	asc. node	1703 Apr 18 07:39	16° 8 41'24	
asc. node	1700 Oct 31 12:23	22° m 06'59			1703 Apr 29 04:40	$\Pi^{\circ}0$	
	1700 Nov 08 22:52	0∘ 亚			1703 May 23 22:05	0 \circ \odot	
morning max el	1700 Nov 13 17:06	4° ≙ 43'37	46°40'56		1703 Jun 18 00:21	$0^{\circ}\Omega$	
	1700 Dec 07 03:50	0° M ₊			1703 Jul 13 15:59	0° m y	
	1701 Jan 01 22:13	0° ∡ 7		desc. node	1703 Aug 07 20:40	28° m 24'51	
	1701 Jan 26 19:45	8°0			1703 Aug 09 07:23	0∘ ত	
desc. node	1701 Feb 20 01:41	29° る 37'29		evening max el	1703 Sep 06 14:37	29° ≏ 25'57	46°18'58
	1701 Feb 20 09:02	0° ≈			1703 Sep 07 04:42	0° M	
	1701 Mar 16 19:20	0° ∀		greatest brilliancy	1703 Oct 17 00:42	28°M53'10	-4.9m
	1701 Apr 10 05:08	$0^{\circ}\mathbf{\Upsilon}$			1703 Oct 21 08:24	0° ∡ ¹	
	1701 May 04 15:29	0°8		retrograde	1703 Oct 26 04:30	0° ∡ ¹27'04	
morning set	1701 May 19 07:47	18° 8 00'40			1703 Oct 30 22:14	30°RML	
	1701 May 29 02:22	$\Pi^{\circ}0$		evening set	1703 Nov 10 05:33	26°MJ04'25	
asc. node	1701 Jun 13 05:12	18° Ⅲ 33'12		inferior conj	1703 Nov 15 19:59	22°M48'09	-3°19'36
	1701 Jun 22 12:56	0°ಅ		minimum elong	1703 Nov 16 03:11	22°M37'12	3°17'26
max. Earth dist.	1701 Jun 23 22:24	1°542'47	1.73595 AU	min. Earth dist.	1703 Nov 16 09:19	22°M27'53	0.26657 AU
				morning rise	1703 Nov 22 00:10	19° M 11'53	
superior conj	1701 Jun 25 00:21	3° 5 02'29	0°27'34	asc. node	1703 Nov 29 00:04	16° M ₊12'19	
minimum elong	1701 Jun 24 19:00	2° © 46'02		direct	1703 Dec 06 08:19	15°ML05'22	
	1701 Jul 16 22:20	$0^{\circ}\Omega$		greatest brilliancy	1703 Dec 17 02:24	17° M 16'14	-4.9m
evening rise	1701 Jul 30 19:57	17° Ω 07'26		8	1704 Jan 06 05:32	0° ∡ ⊓	
<i>8</i>	1701 Aug 10 06:33	0° m)		morning max el	1704 Jan 25 23:51	18° ∡ ′20'47	46°55'41
	1701 Sep 03 14:26	0∘ ⊽		morning man vi	1704 Feb 06 03:31	0° 궁	10 00 11
	1701 Sep 03 11:20 1701 Sep 27 23:13	o° m			1704 Mar 04 00:13	0° ≈	
desc. node	1701 Oct 02 18:36	5°M54'36		desc. node	1704 Mar 19 13:43	18° ≈ 04'54	
dese. Hode	1701 Oct 22 10:00	0° ⊼		dese. Hode	1704 Mar 29 16:39	0° ∀	
	1701 Oct 22 10:00 1701 Nov 16 00:19	% ਰ∘ਰ			1704 Apr 23 21:23	0° Υ	
	1701 Nov 10 00:17	0° ≈			1704 May 18 20:29	0°8	
	1701 Dec 10 22:12 1702 Jan 05 14:36	0° ∀			1704 Jun 12 15:54	0°II	
asc. node	1702 Jan 23 21:50	20° ¥ 11'45			1704 Jul 07 07:33	0ಂ ತಾ	
evening max el	1702 Jan 31 23:53	28° H 35'39	46°50'47	asc. node	1704 Jul 10 17:03	4°908'59	
evening max er	1702 Jan 31 23:33 1702 Feb 02 09:22	26 γ (33 39	40 30 47	morning set	1704 Jul 25 23:33	22°951'58	
greatest brilliancy	1702 Pc0 02 09:22 1702 Mar 12 19:43	29° Υ 18'26	-4.8m	morning set	1704 Jul 31 18:44	0°Ω	
greatest offinality	1702 Mar 12 19:43	0° 8	-4.0111		1704 Aug 25 01:25	0° m)	
ratrograda	1702 Mar 23 09:26	1° 8 23'33		may Farth dist	•		1 72688 AII
retrograde	1702 Mar 31 15:39	1 O 23 33		max. Earth dist.	1704 Aug 28 00:59	3 HJ/413/	1.72688 AU
avanina aat		30 K I 25° Υ 50'39		aumariar aani	1704 Ava 21 11:12	70 m 57107	1024!15
evening set	1702 Apr 09 06:47 1702 Apr 13 14:51	23° Υ '08'59	6°41'01	superior conj minimum elong	1704 Aug 31 11:12 1704 Aug 31 09:07	7° Mp 57'07 7° Mp 50'37	1°24'14
inferior conj	1702 Apr 13 14.31 1702 Apr 14 00:33	23 1 08 39 22° Y 53'38	6°39'09	minimum elong	~	0∘ ʊ / װ/303/	1 24 14
minimum elong		22 1 33 38 23° Y 11'52	0.28479 AU	avanina risa	1704 Sep 18 04:40	0 <u>≈</u> 24° ≏ 37'06	
min. Earth dist.	1702 Apr 13 13:02 1702 Apr 18 18:41	19° Υ 59'12	0.26479 AU	evening rise	1704 Oct 07 22:32 1704 Oct 12 06:03	0°M	
morning rise direct	*	19 γ 59 12 14° γ 59'52		desc. node	1704 Oct 30 06:31	22°M29'18	
	1702 May 04 20:49 1702 May 14 13:45	14 γ 39 32 16° Υ 42'58	-4.7m	desc. node		0° √	
greatest brilliancy desc. node	1702 May 14 13:45	10 γ 42 38 17° Υ 01'48	-4./111		1704 Nov 05 06:57 1704 Nov 29 08:16	0° ろ	
desc. Hode	1702 Jun 05 18:16	0°8			1704 Dec 23 11:17	0°≈	
morning max el	1702 Jun 22 15:58	14° 8 53'58	45°45'00		1704 Dec 23 11:17 1705 Jan 16 18:50	0 ≈ 0° ∺	
morning max er	1702 Jul 22 13:38 1702 Jul 07 18:44	0° Ⅱ	45 45 00		1705 Feb 10 12:36	0°Υ	
	1702 Jul 07 18:44 1702 Aug 04 09:05	0°©		asc. node	1705 Feb 10 12.30 1705 Feb 20 09:46	11° Υ 44'13	
	-	0°€ 0 €		asc. node		0° と	
1	1702 Aug 30 08:46				1705 Mar 08 03:05	0°I	
asc. node	1702 Sep 05 14:46	7° Ω 23'48			1705 Apr 04 14:08		45942146
	1702 Sep 24 10:03	0° m)		evening max el	1705 Apr 12 23:39	8° Ⅱ 25'31	45°43'46
	1702 Oct 18 20:54	0∘ ™			1705 May 08 12:09	0°©	4.7
	1702 Nov 11 23:03	0°M. 0°. 7		greatest brilliancy	1705 May 20 22:01	6°938'32	-4.7m
. ,	1702 Dec 05 20:54	0° 🗷 170. ₹3.03.5		retrograde	1705 May 31 22:55	8°950'47	
morning set	1702 Dec 19 20:54	17° ∡ 36'25		desc. node	1705 Jun 11 23:01	6°526'24	
desc. node	1702 Dec 26 03:59	25° ₹ 31'38		evening set	1705 Jun 16 00:27	4°926'55	2026/01
	1702 Dec 29 17:19	600 ප		inferior conj	1705 Jun 22 10:25	0°936'45	
	1703 Jan 22 13:57	0° ≈		minimum elong	1705 Jun 22 05:12		2°24'33
	1702 I- 20 16 22	10010147	1911152	min. Earth dist.	1705 Jun 22 08:54	0°©39'06	0.28977 AU
superior conj	1703 Jan 30 16:33	10°≈10'47			1705 Jun 23 09:57	30°RⅡ 270Ⅲ00122	
minimum elong	1703 Jan 30 05:32	9°≈36'13		morning rise	1705 Jun 28 09:58	27° I I00'33	
max. Earth dist.	1703 Feb 02 22:10		1.71375 AU	direct	1705 Jul 14 01:17	22° Ⅱ 19'06	4.7-
	1703 Feb 15 12:04	0° ∺		greatest brilliancy	1705 Jul 24 12:11	24° Ⅱ 16'42	-4./m

	1705 Aug 04 21:11	0°ಅ			1708 Mar 20 03:44	0° ႘	
morning max el	1705 Sep 01 02:34	22°926'52	45°57'10		1708 Apr 14 03:39	0°II	
	1705 Sep 08 17:15	0° Ω			1708 May 09 22:56	0°9	
asc. node	1705 Oct 03 02:40	26° Ω 16'52			1708 Jun 06 06:32	$0^{\circ}\Omega$	
	1705 Oct 06 09:32	0° m)		evening max el	1708 Jun 22 16:56	16° Ω 32'00	45°24'57
	1705 Nov 01 00:50	0∘ <mark>ಹ</mark>		C	1708 Jul 07 20:43	0° m y	
	1705 Nov 25 17:26	0°M₊		desc. node	1708 Jul 09 10:58	1° m/ 16'22	
	1705 Dec 19 23:15	0°⊀		greatest brilliancy	1708 Jul 31 10:54	14° Mp 21'06	-4.7m
	1706 Jan 13 00:38	0°ರ		retrograde	1708 Aug 10 06:11	16° Mp 04′29	
desc. node	1706 Jan 22 15:57	12° る 02'32		evening set	1708 Aug 28 03:46	10° Mp 08'32	
	1706 Feb 06 00:54	0° ≈		inferior conj	1708 Aug 31 13:12	8° Mp 04'00	-8°38'22
	1706 Mar 02 01:48	0° ∀		minimum elong	1708 Aug 31 10:41	8° ™ 07'55	8°38'16
morning set	1706 Mar 06 21:08	5° ∺ 59'17		min. Earth dist.	1708 Sep 01 01:41	7° m 44'39	0.28496 AU
	1706 Mar 26 04:30	$\mathbf{\gamma}_0$		morning rise	1708 Sep 03 17:26	6° Mp 06'49	
					1708 Sep 19 14:51	30°R Ω	
superior conj	1706 Apr 14 22:04	24° Y 26′59		direct	1708 Sep 21 23:36	29° Ω 53′21	
minimum elong	1706 Apr 15 08:04	24° Y 57'54			1708 Sep 24 08:55	0°Щ	
max. Earth dist.	1706 Apr 17 22:01	28° Y ′09′22	1.72885 AU	greatest brilliancy	1708 Oct 02 22:37	2°m/05'29	-4.8m
	1706 Apr 19 09:49	0°8		asc. node	1708 Oct 30 14:16	21° mp 07'42	
	1706 May 13 17:59	0°II			1708 Nov 08 22:09	0₀ ʊ	
asc. node	1706 May 15 19:24	2° Ⅱ 31'57		morning max el	1708 Nov 11 06:36	2° £ 21'16	46°39'37
evening rise	1706 May 22 16:40	10° Ⅱ 59'32			1708 Dec 06 20:07	0°M	
	1706 Jun 07 04:42	0° ©			1709 Jan 01 12:06	0° ⊼	
	1706 Jul 01 17:48	0° N			1709 Jan 26 08:28	0°る	
	1706 Jul 26 09:58	0° m)		desc. node	1709 Feb 19 03:50	29° る 07'11	
JJ.	1706 Aug 20 07:04	0° Ω			1709 Feb 19 21:03	0° ≈ 0° 升	
desc. node	1706 Sep 04 08:43 1706 Sep 14 11:57	17° ≏ 59'34 0° ጤ			1709 Mar 16 06:54	0° Υ	
	1706 Sep 14 11.57 1706 Oct 10 05:50	0 IIL 0° ∡ 7			1709 Apr 09 16:21 1709 May 04 02:26	0°8	
	1706 Oct 10 03:30 1706 Nov 06 02:42	0°る		morning set	1709 May 17 01:02	15° 8 53'12	
evening max el	1706 Nov 18 18:15	13° る 14'03	17016118	morning set	1709 May 17 01:02 1709 May 28 13:06	0° Ⅱ	
evening max er	1706 Nov 18 18:13	0°≈	47 1046	asc. node	1709 Jun 12 07:15	18° Ⅱ 06'47	
asc. node	1706 Dec 26 12:02	0 ~ 13° ≈ 32'02		asc. node	1709 Jun 21 23:34	0°95	
greatest brilliancy	1706 Dec 29 07:01	14°≈42'14	-4.9m	max. Earth dist.	1709 Jun 21 18:09	29° ∏ 43'21	1.73598 AU
retrograde	1707 Jan 08 15:19	16°≈44'56	1.7111	max. Earth dist.	1707 3411 21 10.07	2, 11,321	1.75570710
evening set	1707 Jan 24 15:49	11° ≈ 37'49		superior conj	1709 Jun 22 18:32	0°958'14	0°24'33
min. Earth dist.	1707 Jan 28 09:18	9° ≈ 22'49	0.27014 AU	minimum elong	1709 Jun 22 13:42	0°543'23	0°24'20
inferior conj	1707 Jan 29 07:24	8° ≈ 48'36	7°23'00	· ·	1709 Jul 16 09:00	$0^{\circ}\Omega$	
minimum elong	1707 Jan 28 21:42	9° ≈ 03'37	7°21'18	evening rise	1709 Jul 28 14:32	15° Ω 03'43	
morning rise	1707 Feb 02 04:01	6° ≈ 28'07		Č	1709 Aug 09 17:22	0° m y	
direct	1707 Feb 18 19:43	1° ≈ 04'20			1709 Sep 03 01:31	0∘ ⊽	
greatest brilliancy	1707 Feb 27 18:55	2° ≈ 36′09	-4.9m		1709 Sep 27 10:39	0° M .	
	1707 Apr 06 19:42	0°) €		desc. node	1709 Oct 01 20:37	5°M25'21	
morning max el	1707 Apr 09 12:22	2° 升 36'44	46°19'17		1709 Oct 21 21:55	0° ∡	
desc. node	1707 Apr 17 01:26	10°) 09′54			1709 Nov 15 12:56	℃ 0	
	1707 May 05 17:54	$0^{\circ}\Upsilon$			1709 Dec 10 11:58	0°≈	
	1707 Jun 01 11:10	$0^{\circ}S$			1710 Jan 05 06:40	0°) €	
	1707 Jun 27 06:42	0° Ⅱ		asc. node	1710 Jan 22 23:56	19° ∺ 26′06	
	1707 Jul 22 12:57	0°€		evening max el	1710 Jan 29 13:33	26°) 13′57	46°52'46
asc. node	1707 Aug 08 04:56	20° © 05'44			1710 Feb 02 07:58	0° Υ	
	1707 Aug 16 08:29	0° N		greatest brilliancy	1710 Mar 10 12:38	27°Υ05'10	-4.8m
	1707 Sep 09 18:51	0° m/y		retrograde	1710 Mar 21 00:50	29°Υ09'31	
	1707 Oct 03 22:16	0° ™		evening set	1710 Apr 07 01:18	23°Y32'28	6054110
morning set	1707 Oct 04 05:51	0° ჲ 23'41		inferior conj	1710 Apr 11 06:30	20°Υ55'18	6°54'10
may Earth dist	1707 Oct 27 21:26	0°M	1.71202 AII	minimum elong	1710 Apr 11 16:04	20° Υ 40'11 20° Υ 58'14	6°52'26
max. Earth dist.	1707 Nov 10 11:55	17° M .04'47	1.71302 AU	min. Earth dist.	1710 Apr 11 04:39	17° Y 50'02	0.28451 AU
superior conj	1707 Nov 12 00:06	18° M 58'27	0°36'30	morning rise direct	1710 Apr 16 07:05 1710 May 02 11:19	17 γ 30 02 12° γ 46'30	
minimum elong	1707 Nov 12 00:06 1707 Nov 12 08:29	18 IIL3827 19°ML24'45		greatest brilliancy	1710 May 02 11.19 1710 May 12 04:45	12 γ 40 30 14° Υ 29'44	-4.7m
minimum ciong	1707 Nov 12 08:29 1707 Nov 20 18:40	19 IIG2443 0° √	3 3007	desc. node	1710 May 12 04.43	14 γ 29 44 15° γ 22'26	т. / Ш
desc. node	1707 Nov 20 18:40 1707 Nov 27 18:17	8° ∡ ¹46'52		dese. Hode	1710 May 14 13:03 1710 Jun 06 02:52	0° 8	
acce. node	1707 Nov 27 18:17	0°중		morning max el	1710 Jun 20 06:47	12° 8 40'55	45°45'33
evening rise	1707 Dec 14 13:24 1707 Dec 23 03:03	00 10° る 39'48			1710 Jul 07 12:29	0°II	
	1708 Jan 07 12:43	0°≈			1710 Aug 03 23:07	0 . ಕ	
	1708 Jan 31 12:07	0°) €			1710 Aug 29 21:12	$0^{\circ}\Omega$	
	1708 Feb 24 16:01	0° Υ		asc. node	1710 Sep 04 16:50	6° Ω 53'40	
asc. node	1708 Mar 19 21:45	29° Ƴ 41'50			1710 Sep 23 21:44	0° m	
					-		

	1710 Oct 18 08:11	0∘ ত		retrograde	1713 May 29 15:49	6° © 42'49	
	1710 Nov 11 10:08	0° M ₊		desc. node	1713 Jun 11 01:08	3° 5 40'43	
	1710 Dec 05 07:51	0° ∡ ¹		evening set	1713 Jun 13 16:32	2° © 19'30	
morning set	1710 Dec 17 07:21	15° ∡ ¹03'56		-	1713 Jun 17 15:54	30°RⅡ	
desc. node	1710 Dec 25 06:08	25° ₹ '04'09		inferior conj	1713 Jun 20 02:47	28° Ⅱ 28'29	-2°06'55
	1710 Dec 29 04:11	0°ठ		minimum elong	1713 Jun 19 22:13	28° Ⅱ 35'37	
	1711 Jan 22 00:47	0° ≈		min. Earth dist.	1713 Jun 20 01:00	28° I [31'17	
	1/11 Juli 22 00.47	0 /01		morning rise	1713 Jun 26 04:01	24° ∏ 50'04	0.20772710
aumorior aoni	1711 Ion 20 02:04	7° ≈ 39'19	1900127	•		20° I I1'01	
superior conj	1711 Jan 28 03:04			direct	1713 Jul 11 18:12		
minimum elong	1711 Jan 27 15:39	7°≈03'29		greatest brilliancy	1713 Jul 22 03:33	22° Ⅱ 07'39	-4./m
max. Earth dist.	1711 Jan 31 02:54		1.71338 AU		1713 Aug 05 19:10	0°€	
	1711 Feb 14 22:51	0° ∀		morning max el	1713 Aug 29 18:54	20°©17'38	45°55'56
evening rise	1711 Mar 09 19:21	28°) 31′43			1713 Sep 08 12:22	$0^{\circ}\Omega$	
	1711 Mar 10 23:44	0 ° Υ		asc. node	1713 Oct 02 04:37	25° Ω 40′08	
	1711 Apr 04 04:54	$_{0\circ}$ 8			1713 Oct 06 00:08	O° My	
asc. node	1711 Apr 17 09:35	16° 8 13'41			1713 Oct 31 13:42	0∘ ⊽	
	1711 Apr 28 15:43	$\Pi^{\circ}0$			1713 Nov 25 05:29	0°M	
	1711 May 23 09:32	0ංම			1713 Dec 19 10:51	0° ⊼ ¹	
	1711 Jun 17 12:32	0°N			1714 Jan 12 11:58	0° ට	
	1711 Jul 13 05:32	0° m)		desc. node	1714 Jan 21 17:58	11° る 33'49	
desc. node	1711 Aug 06 22:49	27° Mp 46'42		dese. Hode	1714 Feb 05 12:00	0°≈	
desc. node		-				0° ∺	
	1711 Aug 08 23:43	0° ™	46016125		1714 Mar 01 12:42		
evening max el	1711 Sep 04 03:32	27° £ 04'33	46°16'35	morning set	1714 Mar 04 09:17	3°) (33′40	
	1711 Sep 07 04:57	0°M			1714 Mar 25 15:15	$0^{\circ}\mathbf{\Upsilon}$	
greatest brilliancy	1711 Oct 14 13:04	26°M27'22	-4.8m			• •	
retrograde	1711 Oct 23 16:54	28°M01'15		superior conj	1714 Apr 12 13:09	22° Y 12'08	
evening set	1711 Nov 07 20:22	23°M34'33		minimum elong	1714 Apr 12 23:05	22° Y 42'51	1°06'52
inferior conj	1711 Nov 13 08:20	20°M21'43	-3°41'45	max. Earth dist.	1714 Apr 15 17:52	26° Ƴ 09'25	1.72835 AU
minimum elong	1711 Nov 13 16:13	20°ML09'47	3°39'26		1714 Apr 18 20:29	9° 8	
min. Earth dist.	1711 Nov 13 22:51	19° M 59'44	0.26704 AU		1714 May 13 04:37	$\Pi^{\circ}0$	
morning rise	1711 Nov 19 11:27	16°ML47'13		asc. node	1714 May 14 21:30	2° Ⅱ 05'41	
asc. node	1711 Nov 28 02:11	13°ML19'59		evening rise	1714 May 20 10:11	8° Ⅱ 53'19	
direct	1711 Dec 03 21:35	12°MJ37'57			1714 Jun 06 15:26	0°ಲಾ	
greatest brilliancy	1711 Dec 14 16:42	14°M50'27	-4.9m		1714 Jul 01 04:46	$0^{\circ}\Omega$	
· ·	1712 Jan 06 16:30	0° ∡ 7			1714 Jul 25 21:23	0° m/y	
morning max el	1712 Jan 23 14:27	15° ∡ 758'41	46°56'19		1714 Aug 19 19:11	$0 \circ \overline{\mathbf{v}}$	
3	1712 Feb 05 22:31	0°ठ		desc. node	1714 Sep 03 10:39	17° £ 27'32	
	1712 Mar 03 15:09	0° ≈		dese. node	1714 Sep 14 01:13	0°M	
desc. node	1712 Mar 18 15:43	0 ~ 17° ≈ 30'42			1714 Oct 09 21:02	0° ∡ ¹	
desc. node		0° \			1714 Oct 09 21:02 1714 Nov 05 22:05	% ਨ ਨ	
	1712 Mar 29 05:43	0° Υ					47015152
	1712 Apr 23 09:25			evening max el	1714 Nov 16 09:05	10° る 52'26	4/*15.53
	1712 May 18 07:52	0.8			1714 Dec 07 02:37	0° ≈	
	1712 Jun 12 02:53	$\Pi^{\circ}0$		asc. node	1714 Dec 25 14:09	11° ≈ 45'33	
	1712 Jul 06 18:17	0ංම		greatest brilliancy	1714 Dec 26 20:53	12° ≈ 15′56	-4.9m
asc. node	1712 Jul 09 19:10	3°542'44		retrograde	1715 Jan 06 04:45	14° ≈ 17'43	
morning set	1712 Jul 23 17:17	20°5946'21		evening set	1715 Jan 22 01:10	9° ≈ 17'10	
	1712 Jul 31 05:21	$0 {\circ} \Omega$		min. Earth dist.	1715 Jan 25 22:25	6° ≈ 56'38	0.26957 AU
	1712 Aug 24 12:01	0° m		inferior conj	1715 Jan 26 20:23	6° ≈ 22'35	7°09'46
max. Earth dist.	1712 Aug 25 19:57	1° m ,39'00	1.72734 AU	minimum elong	1715 Jan 26 10:23	6° ≈ 38'05	7°07'54
				morning rise	1715 Jan 30 20:03	3° ≈ 57'35	
superior conj	1712 Aug 29 04:16	5° ™ 48'10	1°23'48		1715 Feb 08 06:08	30°R₹	
minimum elong	1712 Aug 29 01:30	5° m 39'33	1°23'47	direct	1715 Feb 16 08:33	28° る 39'25	
	1712 Sep 17 15:20	0∘ ত			1715 Feb 24 17:47	0° ≈	
evening rise	1712 Oct 05 12:46	22° £ 18'07		greatest brilliancy	1715 Feb 25 07:51	0°≈11'13	-4.9m
Č	1712 Oct 11 16:53	0°M		· ·	1715 Apr 06 19:24	0°) €	
desc. node	1712 Oct 29 08:28	22°ML01'03		morning max el	1715 Apr 07 01:22	0°) 14'36	46°20'51
acco. noac	1712 Nov 04 18:01	0° × 7		desc. node	1715 Apr 16 03:23	9°) (23'11	.0 2001
	1712 Nov 28 19:36	∘ੰਤ			1715 May 05 10:11	0° Υ	
	1712 Nov 28 19.30 1712 Dec 22 22:55	0°≈			1715 Jun 01 00:45	0°8	
		0° ∺				0°U	
	1713 Jan 16 06:55	0° Λ 0° Υ			1715 Jun 26 18:57		
	1713 Feb 10 01:29			ā	1715 Jul 22 00:27	0°95	
asc. node	1713 Feb 19 11:50	11° Y 10'53		asc. node	1715 Aug 07 06:57	19° © 37'56	
	1713 Mar 07 17:41	0° B			1715 Aug 15 19:34	0° N	
_	1713 Apr 04 09:17	0°II			1715 Sep 09 05:45	0° m)	
evening max el	1713 Apr 10 16:13	6° Ⅱ 16′29	45°45'36	morning set	1715 Oct 01 20:53	28° Mp 06'55	
	1713 May 09 13:00	0ංම			1715 Oct 03 09:08	0∘ ত	
greatest brilliancy	1713 May 18 13:53	4°530'02	-4.7m		1715 Oct 27 08:21	0°M₊	

max. Earth dist.	1715 Nov 07 16:54	14° M 15'26	1.71336 AU	min. Earth dist.	1718 Apr 08 19:52		0.28420 AU
				morning rise	1718 Apr 13 19:22	15° Y 40′22	
superior conj	1715 Nov 09 12:05	16°M31'00		direct	1718 Apr 30 01:55	10° Y 32′10	
minimum elong	1715 Nov 09 20:59	16°M58'56	0°39'30	greatest brilliancy	1718 May 09 19:28	12° Y 15'38	-4.7m
	1715 Nov 20 05:37	0° ∡ 7		desc. node	1718 May 13 15:16	13° Y 46′12	
desc. node	1715 Nov 26 20:25	8° ∡ 19'04			1718 Jun 06 09:17	0°8	
	1715 Dec 14 02:25	0°る		morning max el	1718 Jun 17 22:25	10° 8 29'13	45°46'09
evening rise	1715 Dec 20 13:01	8° る 05'36			1718 Jul 07 06:04	0° I I	
	1716 Jan 06 23:50	0° ≈			1718 Aug 03 13:13	0°9	
	1716 Jan 30 23:22	0° ℋ 0° Ƴ		1	1718 Aug 29 09:48	0°N	
1	1716 Feb 24 03:29			asc. node	1718 Sep 03 18:47	6° Ω 22'40	
asc. node	1716 Mar 18 23:41	29° Y 11'49			1718 Sep 23 09:35	0° Mp	
	1716 Mar 19 15:35	8°0			1718 Oct 17 19:39	0° ™	
	1716 Apr 13 16:14	0°© 0°∏			1718 Nov 10 21:26	0° M 0° ₹	
	1716 May 09 13:03			. ,	1718 Dec 04 19:05	0° ∡ 7	
	1716 Jun 06 00:24	0° Ω	45924110	morning set	1718 Dec 14 17:43	12° x 30'13	
evening max el	1716 Jun 20 06:52	14° Ω 16'41	45 24 19	desc. node	1718 Dec 24 08:12	24° ₹ 35'21	
JJ.	1716 Jul 08 06:39	0°M)			1718 Dec 28 15:24	0°る 0°≈	
desc. node greatest brilliancy	1716 Jul 08 13:04 1716 Jul 29 00:38	0° Mp 12'20	4.7		1719 Jan 21 11:58	0°≈	
retrograde		12° Mp 07'22	-4.7m	superior conj	1710 Ion 25 12:50	5° ≈ 04'41	1907112
C	1716 Aug 07 20:25	13° Mp 51'40		1 3	1719 Jan 25 12:59		
evening set	1716 Aug 25 16:36	7° Mp 58'25	0024156	minimum elong max. Earth dist.	1719 Jan 25 01:16 1719 Jan 28 07:51	4°≈27'53 8°≈34'34	1°06'50 1.71305 AU
inferior conj	1716 Aug 29 04:25	5° m 50'25 5° m 55'35		max. Earth dist.	1719 Jan 28 07.31 1719 Feb 14 10:00	8 ≈3434 0° H	1./1303 AU
minimum elong min. Earth dist.	1716 Aug 29 01:05		0.28545 AU	ovening rise		0 X 26° ¥ 04'29	
	1716 Aug 29 16:22	5° m/31'53 3° m/52'03	0.28343 AU	evening rise	1719 Mar 07 07:09 1719 Mar 10 10:51	26 π 0429 0° Υ	
morning rise	1716 Sep 01 09:23	3°11/32'03 30°RΩ				0° 8	
direct	1716 Sep 08 17:29	30° ₹ 8€ 27° Ω 38'54		aga mada	1719 Apr 03 16:04	15° 8 45'37	
direct	1716 Sep 19 14:45	27 δί 38 34 29° Ω 51'12	4 9m	asc. node	1719 Apr 16 11:42	0° Ⅱ	
greatest brilliancy	1716 Sep 30 14:34		-4.6111		1719 Apr 28 03:06	0ಂ ಲ ೧ π	
aga mada	1716 Sep 30 23:37 1716 Oct 29 16:24	0° Mp 20° Mp 09′57			1719 May 22 21:20 1719 Jun 17 01:06	0° U	
asc. node	1716 Oct 29 16.24 1716 Nov 08 20:40	20 ili(093/ 0° Ω			1719 Jul 17 01:06 1719 Jul 12 19:31	0°m)	
morning may al	1716 Nov 08 20:40 1716 Nov 08 20:19		46°38'14	desc. node			
morning max el	1716 Nov 08 20:19 1716 Dec 06 12:19	29° Mp 59′07 0° ML	40 36 14	desc. node	1719 Aug 06 00:48	27° № 06'50 0° <u> </u>	
	1716 Dec 06 12.19 1717 Jan 01 02:02	0°11℃		evening max el	1719 Aug 08 16:41 1719 Sep 01 17:31	0 ≗ 24° £ 45'10	46014114
	1717 Jan 01 02:02 1717 Jan 25 21:14	0°ろ		evening max er	1719 Sep 01 17.31 1719 Sep 07 06:45	0°M	40 14 14
desc. node	1717 Jan 23 21:14 1717 Feb 18 05:50	28° ප 36'14		greatest brilliancy	1719 Sep 07 00:43	24°M01'06	-4 8m
desc. Hode	1717 Feb 19 09:07	28 3 30 14 0° ≈		retrograde	1719 Oct 12 01:01 1719 Oct 21 05:40	25°M35'13	-4.0111
	1717 Mar 15 18:29	0 ≈ 0° ∀		evening set	1719 Oct 21 03:40 1719 Nov 05 11:28	21°M04'35	
	1717 Mai 13 18.29 1717 Apr 09 03:36	0° Υ		inferior conj	1719 Nov 03 11:28 1719 Nov 10 20:51	17°M55'03	-4°03'11
	1717 May 03 13:25	0°8		minimum elong	1719 Nov 10 20:31 1719 Nov 11 05:19	17°M42'12	
morning set	1717 May 03 13:23	13° 8 45'12		min. Earth dist.	1719 Nov 11 03:19	17°M31'58	0.26755 AU
morning set	1717 May 14 16:15	0° Ⅱ		morning rise	1719 Nov 16 12:04	14°M22'34	0.20733 AC
asc. node	1717 Jun 11 09:23	17° Ⅱ 40'15		asc. node	1719 Nov 10 22:38	10°MJ33'30	
max. Earth dist.	1717 Jun 19 13:54		1.73600 AU	direct	1719 Dec 01 11:21	10°ML10'33	
max. Darur dist.	1717 3411 17 13.51	27 1337	1.75000110	greatest brilliancy	1719 Dec 12 06:29	12°M23'33	-4.9m
superior conj	1717 Jun 20 12:49	28° Ⅱ 53'59	0°21'32	greatest of financy	1720 Jan 07 00:57	0° ∡ 7	4.7111
minimum elong	1717 Jun 20 08:32	28° I I40'49		morning max el	1720 Jan 21 05:11	13° ×7 35'54	46°56'37
	1717 Jun 20 00:32	0°95		0	1720 Feb 05 17:29	0°る	,
	1717 Jul 15 19:47	$0^{\circ}\Omega$			1720 Mar 03 06:22	0° ≈	
evening rise	1717 Jul 26 09:20	13° Ω 00'30		desc. node	1720 Mar 17 17:42	16°≈55'14	
e vennig 1150	1717 Aug 09 04:18	0°m/		acco. no ac	1720 Mar 28 19:10	0° ∀	
	1717 Sep 02 12:43	0∘ ⊽			1720 Apr 22 21:50	0°Υ	
	1717 Sep 26 22:16	0°M			1720 May 17 19:37	0°8	
desc. node	1717 Sep 30 22:38	4°M55'40			1720 Jun 11 14:12	0°II	
	1717 Oct 21 10:05	0° ∡ 7			1720 Jul 06 05:21	0°ಅ	
	1717 Nov 15 01:53	0°ਤ		asc. node	1720 Jul 08 21:08	3°9514'58	
	1717 Dec 10 02:11	0° ≈		morning set	1720 Jul 21 11:10	18°940'13	
	1718 Jan 04 23:20	0°) €			1720 Jul 30 16:18	0°Ω	
asc. node	1718 Jan 22 01:57	18°) 38'40		max. Earth dist.	1720 Aug 23 13:26	29° Ω 30'29	1.72780 AU
evening max el	1718 Jan 27 03:19	23° H 51'35	46°55'02	250 01 0100.	1720 Aug 23 13:20 1720 Aug 23 22:58	0° m)	
	1718 Feb 02 07:54	0° Υ				- 'x	
greatest brilliancy	1718 Mar 08 04:52	24° Υ 50'15	-4.8m	superior conj	1720 Aug 26 21:40	3° m 39'11	1°23'14
retrograde	1718 Mar 18 16:32	26° Υ 54'49	· - 	minimum elong	1720 Aug 26 18:14	3° m/28'35	1°23'13
evening set	1718 Apr 04 19:45	21° Υ 13'17			1720 Sep 17 02:21	0° ರ	
inferior conj	1718 Apr 08 22:07	18° Υ 40'40	7°06'44	evening rise	1720 Oct 03 03:26	0 — 19° ≏ 59'28	
minimum elong	1718 Apr 09 07:27	18° Υ 25'55	7°05'08		1720 Oct 11 04:04	0°M	
	-F						

desc. node	1720 Oct 28 10:38	21°M32'30			1723 Apr 06 18:16	0° ∀	
	1720 Nov 04 05:24	0° ∡ ¹		desc. node	1723 Apr 15 05:37	8° 升 37′23	
	1720 Nov 28 07:15	0°రె			1723 May 05 02:24	$0^{\circ}\mathbf{\Upsilon}$	
	1720 Dec 22 10:54	0° ≈			1723 May 31 14:29	0°8	
	1721 Jan 15 19:24	0°) €			1723 Jun 26 07:24	0°II	
	1721 Feb 09 14:53	0° Υ			1723 Jul 20 07:24 1723 Jul 21 12:10	0ංම 0 ස	
1							
asc. node	1721 Feb 18 13:45	10° Y 35'40		asc. node	1723 Aug 06 08:58	19°509'24	
	1721 Mar 07 08:57	0°8			1723 Aug 15 06:52	$0^{\circ}\Omega$	
	1721 Apr 04 05:37	$\Pi^{\circ}0$			1723 Sep 08 16:51	0° m	
evening max el	1721 Apr 08 08:51	4° Ⅱ 06'01	45°47'32	morning set	1723 Sep 29 12:02	25° m 50'02	
	1721 May 11 01:25	0 \circ \odot			1723 Oct 02 20:11	0∘ ত	
greatest brilliancy	1721 May 16 06:36	2° 5 21'12	-4.7m		1723 Oct 26 19:26	0°M₊	
retrograde	1721 May 27 08:27	4° © 33'38		max. Earth dist.	1723 Nov 05 00:46	11°MJ34'35	1.71375 AU
desc. node	1721 Jun 10 03:09	0°950'29					
evening set	1721 Jun 11 08:55	0°910'53		superior conj	1723 Nov 07 00:18	14°ML03'47	0°43'10
evening set							
	1721 Jun 11 16:48	30°RⅡ	1047146	minimum elong	1723 Nov 07 09:40	14°M33'12	0°42'47
inferior conj	1721 Jun 17 19:15	26° Ⅱ 19'16			1723 Nov 19 16:47	0° ∡	
minimum elong	1721 Jun 17 15:21	26° Ⅱ 25'23		desc. node	1723 Nov 25 22:27	7° ∡ 750'19	
min. Earth dist.	1721 Jun 17 17:21	26° Ⅲ 22'15	0.28962 AU		1723 Dec 13 13:39	0°ප	
morning rise	1721 Jun 23 21:59	22° Ⅱ 38'36		evening rise	1723 Dec 17 23:14	5° る 31'35	
direct	1721 Jul 09 11:03	18° Ⅲ 02'10			1724 Jan 06 11:08	0° ≈	
greatest brilliancy	1721 Jul 19 18:52	19° Ⅱ 57'31	-4.7m		1724 Jan 30 10:46	0° ∀	
· ·	1721 Aug 06 11:55	0ം ഉ			1724 Feb 23 15:04	$_{0}$ $^{\circ}$ Υ	
morning max el	1721 Aug 27 10:22	18°905'26	45°54'42	asc. node	1724 Mar 18 01:50	28° Y 42'02	
morning max er	1721 Aug 27 10:22 1721 Sep 08 07:20	0° Ω	43 34 42	ase. Hode	1724 Mar 19 03:33	0°8	
,	1						
asc. node	1721 Oct 01 06:43	25° Ω 03'13			1724 Apr 13 05:00	0° I I	
	1721 Oct 05 14:54	0° m ∕			1724 May 09 03:29	0ಂ ತಾ	
	1721 Oct 31 02:49	0∘ ऌ			1724 Jun 05 18:56	0 $^{\circ}$ Ω	
	1721 Nov 24 17:48	0° M		evening max el	1724 Jun 17 20:56	12° Ω 01'17	45°23'47
	1721 Dec 18 22:43	0° ∡ 7		desc. node	1724 Jul 07 15:03	29° Ω 05'57	
	1722 Jan 11 23:32	_{0°} ප			1724 Jul 08 20:19	0° m	
desc. node	1722 Jan 20 19:59	11° る 04'12		greatest brilliancy	1724 Jul 26 14:05	9° m 53'03	-4.7m
	1722 Feb 04 23:22	0° ≈		retrograde	1724 Aug 05 11:19	11° m 38'56	
	1722 Feb 28 23:54	0°) €		evening set	1724 Aug 23 05:17	5° m 48'34	
mamina aat	1722 Mar 01 21:24	1° ∺ 07'01		inferior conj	•	~	9920146
morning set		0° Υ		3	1724 Aug 26 19:45	3° Mp 36'49	
	1722 Mar 25 02:20	Os Y		minimum elong	1724 Aug 26 15:39	3° m 43'10	
				min. Earth dist.	1724 Aug 27 06:59	3° ™ 19'24	0.28591 AU
superior conj	1722 Apr 10 04:01	19° Ƴ 55'29		morning rise	1724 Aug 30 01:47	1° ™ 36'55	
minimum elong	1722 Apr 10 13:48	20° Y 25'45	1°09'01		1724 Sep 01 20:33	30°Ŗ Ω	
max. Earth dist.	1722 Apr 13 13:22	24° Ƴ 07'11	1.72786 AU	direct	1724 Sep 17 06:06	25° Ω 24'29	
	1722 Apr 18 07:30	$_{0\circ}$ 8		greatest brilliancy	1724 Sep 28 06:35	27° Ω 37'12	-4.8m
	1722 May 12 15:38	$\Pi^{\circ}0$			1724 Oct 03 11:45	0° m∕	
asc. node	1722 May 13 23:35	1° Ⅱ 38'16		asc. node	1724 Oct 28 18:32	19° m 13'21	
evening rise	1722 May 18 03:20	6° Ⅱ 44'43		morning max el	1724 Nov 06 10:50	27° m 39'01	46°36'49
evening rise	1722 Jun 06 02:30	0°9		morning max er	1724 Nov 08 18:23	0° ت	10 30 19
	1722 Jun 30 16:04	Ω°			1724 Dec 06 04:18	0° M ○○ 3	
	1722 Jul 25 09:08	0° m)			1724 Dec 31 15:53	0° ∡ ¹	
	1722 Aug 19 07:41	0∘ ⊽			1725 Jan 25 10:00	0°る	
desc. node	1722 Sep 02 12:42	16° ≏ 54'48		desc. node	1725 Feb 17 07:51	28° る 05'13	
	1722 Sep 13 14:54	0° M ₊			1725 Feb 18 21:12	0°≈	
	1722 Oct 09 12:46	0° ∡ ¹			1725 Mar 15 06:05	0° ∀	
	1722 Nov 05 18:22	0°ರ			1725 Apr 08 14:50	$0^{\circ}\Upsilon$	
evening max el	1722 Nov 13 23:08	8° පි 28'01	47°14'53		1725 May 03 00:23	6^\circB	
C	1722 Dec 07 18:57	0° ≈		morning set	1725 May 12 11:34	11° 8 37'41	
greatest brilliancy	1722 Dec 24 11:24	9° ≈ 49'52	-4 9m	morning sec	1725 May 27 10:43	0° Ⅱ	
			4.7111	asa nada		17° I I13'13	
asc. node	1722 Dec 24 16:07	9°≈54'15		asc. node	1725 Jun 10 11:21		1 72605 411
retrograde	1723 Jan 03 17:48	11°≈50'14		max. Earth dist.	1725 Jun 17 11:01	25° Ⅱ 48′03	1.73605 AU
evening set	1723 Jan 19 10:45	6°≈56'05				—	
min. Earth dist.	1723 Jan 23 12:03	4° ≈ 29'47	0.26900 AU	superior conj	1725 Jun 18 07:13	26° ∏ 50'05	0°18'29
inferior conj	1723 Jan 24 09:31	3° ≈ 56′29	6°55'47	minimum elong	1725 Jun 18 03:29	26° Ⅱ 38'39	0°18'18
minimum elong	1723 Jan 23 23:17	4°≈12'21	6°53'44		1725 Jun 20 21:03	0 \circ \odot	
morning rise	1723 Jan 28 12:15	1° ≈ 26'55			1725 Jul 15 06:35	$0^{\circ}\Omega$	
	1723 Jan 31 03:15	30°₹₹		evening rise	1725 Jul 24 04:17	10° Ω 57'41	
direct	1723 Feb 13 21:01	26° ප 14'17		Č	1725 Aug 08 15:16	0° m/	
greatest brilliancy	1723 Feb 22 21:28	27° る 46'43	-4.9m		1725 Sep 01 23:57	0₀ ಹ	
gy	1723 Feb 28 07:19	0°≈			1725 Sep 26 09:53	0° ™	
morning max el	1723 Apr 04 13:35	0 ≈ 27°≈49'52	46°22'21	desc. node	=	4°M26'19	
morning max ci	1/25 Apr 04 13.33	∠1 ~~49 32	7U 44 41	uese. Houe	1725 Sep 30 00:46	+ II620 19	

	1725 Oct 20 22:16	0° ∡ 7			1728 Jun 11 01:15	0°Щ	
		0 x.				0°€	
	1725 Nov 14 14:53			1	1728 Jul 05 16:09	2° © 48'24	
	1725 Dec 09 16:30	0° ≈		asc. node	1728 Jul 07 23:13		
	1726 Jan 04 16:18	0°) {		morning set	1728 Jul 19 05:18	16°935'48	
asc. node	1726 Jan 21 04:00	17°) 50'41	46057111	E 4 F 4	1728 Jul 30 02:57	0° Ω	1 72027 111
evening max el	1726 Jan 24 17:57	21°) €31′26	46°5/11	max. Earth dist.	1728 Aug 21 06:24	27° Ω 21'25	1.72827 AU
	1726 Feb 02 09:00	0°Υ			1728 Aug 23 09:36	0° ™	
greatest brilliancy	1726 Mar 05 20:39	22° Y 34'46	-4.8m		1500 1 01 15 10	10 3 2 2 2 2 2	1000104
retrograde	1726 Mar 16 08:48	24° Y 40′06		superior conj	1728 Aug 24 15:19		1°22'34
evening set	1726 Apr 02 14:10	18° Y 54'05		minimum elong	1728 Aug 24 11:17	1° m 19'34	1°22'31
inferior conj	1726 Apr 06 13:40	16° Y 25'57			1728 Sep 16 13:06	0∘ ʊ	
minimum elong	1726 Apr 06 22:45	16° ℃ 11'38	7°17'15	evening rise	1728 Sep 30 18:15	17° Ω 42'11	
min. Earth dist.	1726 Apr 06 10:40	16° Ƴ 30'41	0.28386 AU		1728 Oct 10 15:00	0° M	
morning rise	1726 Apr 11 07:34	13° Y 30′56		desc. node	1728 Oct 27 12:39	21°M04'11	
direct	1726 Apr 27 16:51	8° Ƴ 17'57			1728 Nov 03 16:35	0° ∡	
greatest brilliancy	1726 May 07 09:35	10° Y 01′10	-4.8m		1728 Nov 27 18:42	0°る	
desc. node	1726 May 12 17:14	12° Y 13′26			1728 Dec 21 22:40	0° ≈	
	1726 Jun 06 13:30	$0^{\circ}S$			1729 Jan 15 07:41	0° ∀	
morning max el	1726 Jun 15 14:39	8° 8 19'26	45°46'47		1729 Feb 09 04:06	0° Y	
	1726 Jul 06 23:05	Π °0		asc. node	1729 Feb 17 15:55	10° Y ′01'49	
	1726 Aug 03 03:03	0 \circ			1729 Mar 07 00:09	0°B	
	1726 Aug 28 22:14	0 $^{\circ}$ Ω			1729 Apr 04 02:19	Π $^{\circ}0$	
asc. node	1726 Sep 02 20:56	5° Ω 52'36		evening max el	1729 Apr 06 00:37	1° Ⅱ 54′03	45°49'25
	1726 Sep 22 21:20	0° m)			1729 May 13 09:51	0 \circ \odot	
	1726 Oct 17 07:02	0∘ ರ		greatest brilliancy	1729 May 13 23:53	0°©13'36	-4.7m
greatest brilliancy	1726 Nov 08 18:08	27° ≏ 59'36	-3.9m	retrograde	1729 May 25 00:36	2° © 25'02	
	1726 Nov 10 08:37	0° M			1729 Jun 05 01:58	30° Ŗ Ⅱ	
	1726 Dec 04 06:11	0° ∡ ¹		evening set	1729 Jun 09 01:22	28° Ⅲ 02'40	
morning set	1726 Dec 12 04:13	9° ∡ 757′28		desc. node	1729 Jun 09 05:10	27° Ⅲ 57′25	
desc. node	1726 Dec 23 10:09	24° ∡ ¹06'41		inferior conj	1729 Jun 15 11:40	24° Ⅱ 10'48	-1°28'17
	1726 Dec 28 02:27	გ∘ი		minimum elong	1729 Jun 15 08:27	24° Ⅱ 15'51	1°27'21
	1727 Jan 20 23:00	0° ≈		min. Earth dist.	1729 Jun 15 10:01	24° Ⅲ 13′23	0.28949 AU
				morning rise	1729 Jun 21 15:43	20° Ⅲ 27'55	
superior conj	1727 Jan 22 22:45	2°≈30'00	-1°04'38	direct	1729 Jul 07 03:21	15° Ⅲ 54'01	
minimum elong	1727 Jan 22 10:50	1°≈52'33		greatest brilliancy	1729 Jul 17 10:28	17° Ⅱ 48'25	-4.7m
max. Earth dist.	1727 Jan 25 15:46	5°≈54'09	1.71276 AU	8	1729 Aug 06 23:57	0ಂಣ	
	1727 Feb 13 21:01	0°) €		morning max el	1729 Aug 25 00:59	15° © 52'16	45°53'41
evening rise	1727 Mar 04 18:53	23°) 37'20			1729 Sep 08 01:22	$0^{\circ}\Omega$	
e renning rise	1727 Mar 09 21:51	0°Υ		asc. node	1729 Sep 30 08:50	24° Ω 27'42	
	1727 Apr 03 03:08	0°8		uso. Houe	1729 Oct 05 05:07	0° m)	
asc. node	1727 Apr 15 13:48	15° 8 17'53			1729 Oct 30 15:31	0∘ ⊽	
use. Houe	1727 Apr 27 14:21	0°Ⅱ			1729 Nov 24 05:47	o° m	
	1727 May 22 08:59	0.©			1729 Dec 18 10:19	0° ⊼ 7	
	1727 Jun 16 13:30	$0 {\circ} \Omega$			1730 Jan 11 10:52	°ਤੇ	
	1727 Jul 12 09:24	0° m y		desc. node	1730 Jan 19 22:06	00 10° る 35'39	
desc. node	1727 Aug 05 02:51	26° Mg 27'26		dese. Hode	1730 Feb 04 10:28	0°≈	
uese. Houe	1727 Aug 03 02:31 1727 Aug 08 09:46	ე∘ <u>ი</u>		morning set	1730 Feb 04 10:28 1730 Feb 27 08:57	0 ∞ 28°≈39'21	
evening max el	1727 Aug 30 07:53	o − 22° ≏ 27'22	46°11'41	morning sec	1730 Feb 28 10:49	0° ∀	
evening max er	1727 Rdg 50 07:55 1727 Sep 07 09:48	0°M	40 11 41		1730 Mar 24 13:07	0°Υ	
greatest brilliancy	1727 Oct 09 13:15	21°M35'43	-4.8m		1/30 Wiai 24 13.07	0 1	
retrograde	1727 Oct 09 13:13 1727 Oct 18 18:14	23°M09'27	-4.0111	superior conj	1730 Apr 07 18:35	17° Ƴ 38'47	1011121
evening set	1727 Oct 18 18:14 1727 Nov 03 02:44	18°M35'07		minimum elong	1730 Apr 07 18:33	17 γ 38 47 18° γ 08'21	1°11'05
inferior conj	1727 Nov 08 09:21	15°M28'57	4024112	max. Earth dist.	1730 Apr 11 07:58	22° Υ '03'04	1.72733 AU
	1727 Nov 08 09:21 1727 Nov 08 18:21	15°M15'17	4°21'41	max. Earth dist.		0° 8	1.72733 AU
minimum elong min. Earth dist.		15°M04'45	0.26806 AU		1730 Apr 17 18:12	0°U	
	1727 Nov 09 01:17 1727 Nov 14 09:30	13 110443 11°M58'34	0.20800 AU	asc. node	1730 May 12 02:20 1730 May 13 01:33	0 Н 1°П11'21	
morning rise					•	4° П 36'23	
asc. node direct	1727 Nov 26 06:13	7°M53'28 7°M43'52		evening rise	1730 May 15 20:16	4°Щ36°23 0°©	
	1727 Nov 29 01:05 1727 Dec 09 20:02	9°M56'50	-4.9m		1730 Jun 05 13:19	0°€0	
greatest brilliancy		9°11L36'30	- 4 .7111		1730 Jul 30 03:07	0°Mo	
morning mass -1	1728 Jan 07 06:48		16056150		1730 Jul 24 20:37	-•	
morning max el	1728 Jan 18 19:09	11° √ 11'48	46°56'50	dono r-d-	1730 Aug 18 19:53	0° 亞	
	1728 Feb 05 11:41	ි ල°00		desc. node	1730 Sep 01 14:53	16° £ 23'29	
daga # - J -	1728 Mar 02 21:06	0°≈ 16°221!22			1730 Sep 13 04:17	0°M. 0°. 7	
desc. node	1728 Mar 16 19:53	16° ≈ 21'22 0° ∀			1730 Oct 09 04:19	0° ∡ ¹ 0° =	
	1728 Mar 28 08:14	0° Υ 0°Υ		avanis 1	1730 Nov 05 14:54	0°る	47012127
	1728 Apr 22 09:55			evening max el	1730 Nov 11 12:02	6° ප 01'41	47°13'37
	1728 May 17 07:05	0°8			1730 Dec 08 16:30	0° ≈	

greatest brilliancy	1730 Dec 22 01:48	7° ≈ 23'45	-4.9m		1733 May 26 21:23	0°Щ	
asc. node	1730 Dec 22 01:48 1730 Dec 23 18:12	7°≈58'42	-4.9111	asc. node	1733 Jun 09 13:25	16° ∏ 46'56	
retrograde	1730 Dec 23 16:12	9°≈22'45		max. Earth dist.	1733 Jun 15 09:25	23°II56'50	1.73606 AU
evening set	1731 Jan 16 20:06	4°≈34'28		max. Earth dist.	1755 Juli 15 07.25	23 113030	1.75000710
min. Earth dist.	1731 Jan 21 01:42	2°≈02'17	0.26849 AU	superior conj	1733 Jun 16 01:11	24° ∏ 45'17	0°15'22
inferior conj	1731 Jan 21 22:24	1°≈30'14	6°40'37	minimum elong	1733 Jun 15 22:03	24° ∏ 35'41	0°15'13
minimum elong	1731 Jan 21 12:02	1° ≈ 46'18	6°38'26	behind sun begin	1733 Jun 15 15:51	24° Ⅱ 16'38	
Č	1731 Jan 24 09:09	30°Ŗる		behind sun end	1733 Jun 16 04:16	24° ∏ 54'44	
morning rise	1731 Jan 26 04:21	28° ප් 56'01			1733 Jun 20 07:39	0°ಲ	
direct	1731 Feb 11 08:55	23° る 48'38			1733 Jul 14 17:15	$0^{\circ}\Omega$	
greatest brilliancy	1731 Feb 20 11:23	25° පි 22'26	-4.9m	evening rise	1733 Jul 21 23:03	8° Ω 54'45	
	1731 Mar 02 07:10	0° ≈		-	1733 Aug 08 02:07	0° m	
morning max el	1731 Apr 02 01:48	25° ≈ 25'23	46°24'00		1733 Sep 01 11:06	0∘ ⊽	
	1731 Apr 06 16:03	0°) €			1733 Sep 25 21:25	0°M	
desc. node	1731 Apr 14 07:35	7° 升 52′09		desc. node	1733 Sep 29 02:45	3°M56'49	
	1731 May 04 18:07	0 ° Υ			1733 Oct 20 10:21	0° ∡ ¹	
	1731 May 31 03:49	9° 8			1733 Nov 14 03:46	o°ප	
	1731 Jun 25 19:31	Π $^{\circ}0$			1733 Dec 09 06:43	0° ≈	
	1731 Jul 20 23:35	0°ಅ			1734 Jan 04 09:18	0° ∀	
asc. node	1731 Aug 05 11:05	18° © 42'01		asc. node	1734 Jan 20 06:06	17° ∺ 02'51	
	1731 Aug 14 17:53	$0^{\circ}\Omega$		evening max el	1734 Jan 22 09:26	19° ∺ 14'09	46°59'12
	1731 Sep 08 03:39	O° Mp			1734 Feb 02 11:09	0 ° Υ	
morning set	1731 Sep 27 03:35	23° M 35'22		greatest brilliancy	1734 Mar 03 12:01	20° Ƴ 19'13	-4.8m
	1731 Oct 02 06:55	0∘ ⊽		retrograde	1734 Mar 14 01:14	22° Y 25'21	
	1731 Oct 26 06:11	0°M₊		evening set	1734 Mar 31 08:28	16° Ƴ 35'01	
max. Earth dist.	1731 Nov 02 12:32	9° ™ 07'02	1.71413 AU	inferior conj	1734 Apr 04 05:08	14° Ƴ 11'09	7°30'00
				minimum elong	1734 Apr 04 13:54	13° Ƴ 57′20	7°28'40
superior conj	1731 Nov 04 12:57	11° M 39'01	0°46'21	min. Earth dist.	1734 Apr 04 01:05	14° Ƴ 17'32	0.28355 AU
minimum elong	1731 Nov 04 22:42	12°M09'38	0°45'56	morning rise	1734 Apr 08 19:37	11° Y 21'26	
	1731 Nov 19 03:36	0°⊀		direct	1734 Apr 25 08:12	6° Y 03'46	
desc. node	1731 Nov 25 00:27	7° ∡ 22'29		greatest brilliancy	1734 May 04 23:06	7° Y 45'59	-4.8m
	1731 Dec 13 00:34	0°ಕ		desc. node	1734 May 11 19:15	10° Y ′43'55	
evening rise	1731 Dec 15 09:44	2° る 59'31			1734 Jun 06 16:02	0°8	
	1732 Jan 05 22:10	0° ≈		morning max el	1734 Jun 13 07:02	6° 8 10'02	45°47'20
	1732 Jan 29 21:58	0° ∀			1734 Jul 06 15:46	0°Щ	
_	1732 Feb 23 02:30	0° Υ			1734 Aug 02 16:43	0°95	
asc. node	1732 Mar 17 03:53	28° Y 12′27			1734 Aug 28 10:34	$0^{\circ}\Omega$	
	1732 Mar 18 15:24	0°8		asc. node	1734 Sep 01 22:58	5° Ω 22'27	
	1732 Apr 12 17:39	0°II			1734 Sep 22 08:59	0° m ≎° ©	
	1732 May 08 17:52	0° ©			1734 Oct 16 18:20	0∘ 亚	
	1732 Jun 05 13:45	0° N	45000106		1734 Nov 09 19:45	0°M	2.0
evening max el	1732 Jun 15 11:34	9° Ω 48'00	45°23'26	greatest brilliancy	1734 Nov 14 19:11	6°M14'09	-3.9m
desc. node	1732 Jul 06 17:09	27° Ω 58′29			1734 Dec 03 17:14	0° 🔏 79. ₹2.514.6	
araataat brillianay	1732 Jul 09 14:19 1732 Jul 24 02:57	0° Т ұ 7° Тр 38'43	-4.7m	morning set desc. node	1734 Dec 09 15:01 1734 Dec 22 12:19	7° х 25'46 23° х 38'47	
greatest brilliancy			-4. /III	desc. node	1734 Dec 22 12:19 1734 Dec 27 13:27	23 x・3847 0°る	
retrograde evening set	1732 Aug 03 02:39 1732 Aug 20 17:41	9° Mp 26'43 3° Mp 39'29			1/34 Dec 2/ 13.2/	0.0	
inferior conj	1732 Aug 20 17:41 1732 Aug 24 10:59	1°Mp23'38	8°25'51	superior conj	1735 Jan 20 08:47	29° ප 56'21	1001/55
minimum elong	1732 Aug 24 10:39 1732 Aug 24 06:09	1° Mp 31'06		minimum elong	1735 Jan 19 20:47	29 පි3021 29°පි18'36	
min. Earth dist.	1732 Aug 24 00:09	1°M)07'46		minimum ciong	1735 Jan 20 09:57	0° ≈	1 0131
mm. Latti dist.	1732 Aug 24 21:13	30°RΩ	0.20054710	max. Earth dist.	1735 Jan 23 01:39	3° ≈ 20'06	1.71242 AU
morning rise	1732 Aug 27 18:25	29° Ω 21'47		max. Earth dist.	1735 Feb 13 07:55	0° ∀	1.,1212110
direct	1732 Sep 14 21:44	23°Ω10'36		evening rise	1735 Mar 02 06:50	21°) 11'05	
greatest brilliancy	1732 Sep 25 21:57	25° Ω 23'12	-4 8m	evening rise	1735 Mar 09 08:45	0°Υ	
greatest similare)	1732 Oct 05 01:18	0° m			1735 Apr 02 14:08	0°8	
asc. node	1732 Oct 27 20:25	18° m) 18'07		asc. node	1735 Apr 14 15:44	14° 8 49'52	
morning max el	1732 Nov 04 02:20	25° m 22'27	46°35'35		1735 Apr 27 01:35	0°II	
5	1732 Nov 08 15:01	0∘ ರ			1735 May 21 20:39	0°95	
	1732 Dec 05 19:43	0°M			1735 Jun 16 02:00	$0^{\circ}\Omega$	
	1732 Dec 31 05:18	0° ∡ 7			1735 Jul 11 23:28	0° m)	
	1733 Jan 24 22:24	0° ਨ		desc. node	1735 Aug 04 04:59	25° m 47'38	
desc. node	1733 Feb 16 09:59	27° る 35'20			1735 Aug 08 03:17	0∘ ⊽	
	1733 Feb 18 09:00	0° ≈		evening max el	1735 Aug 27 21:54	20° ≙ 08'40	46°09'09
	1733 Mar 14 17:29	0°) €		-	1735 Sep 07 14:40	0° M	
	1733 Apr 08 01:55	$0^{\circ}\Upsilon$		greatest brilliancy	1735 Oct 07 02:02	19° M 11'06	-4.8m
	1733 May 02 11:13	0°8		retrograde	1735 Oct 16 06:14	20°M43'41	
morning set	1733 May 10 04:30	9° 8 29'09		evening set	1735 Oct 31 18:10	16°M05'36	

: <i>£</i> :	1725 N 05 21.55	12071 02100	4944127	Daudh diad	1729 4 00 00-20	19° Ƴ 51'44	1 72674 AII
inferior conj minimum elong	1735 Nov 05 21:55 1735 Nov 06 07:22	13°M03'00 12°M48'37		max. Earth dist.	1738 Apr 09 00:30 1738 Apr 17 05:09	0° 8	1.72674 AU
min. Earth dist.	1735 Nov 06 07:22 1735 Nov 06 14:50	12°M37'15			1738 May 11 13:15	0°U	
morning rise	1735 Nov 00 14:30 1735 Nov 11 20:06	9°M34'46	0.20838 AU	asc. node	1738 May 12 03:41	0° П 44'22	
asc. node	1735 Nov 25 08:21	5°M19'07		evening rise	1738 May 13 13:22	2° П 27'51	
direct	1735 Nov 26 14:31	5°M17'11		evening rise	1738 Jun 05 00:19	0°95	
greatest brilliancy	1735 Nov 20 14:51 1735 Dec 07 09:58	7°M30'17	-4 9m		1738 Jun 29 14:23	$0 \circ \mathcal{U}$	
greatest similars	1736 Jan 07 10:51	0° × 7	,		1738 Jul 24 08:23	0° m)	
morning max el	1736 Jan 16 08:19	8° ∡ 745'18	46°57'10		1738 Aug 18 08:26	0∘ ⊽	
<i>y</i>	1736 Feb 05 05:33	0°ප		desc. node	1738 Aug 31 16:47	15° ≏ 50'17	
	1736 Mar 02 11:41	0° ≈			1738 Sep 12 18:08	0° M	
desc. node	1736 Mar 15 21:51	15° ≈ 46'59			1738 Oct 08 20:30	0° ∡ ¹	
	1736 Mar 27 21:12	0°) €			1738 Nov 05 12:34	8°0	
	1736 Apr 21 21:57	$0^{\circ}\mathbf{\Upsilon}$		evening max el	1738 Nov 09 00:36	3° る 33'41	47°12'25
	1736 May 16 18:32	9° 8			1738 Dec 09 22:47	0° ≈	
	1736 Jun 10 12:21	$\Pi^{\circ}0$		greatest brilliancy	1738 Dec 19 15:50	4°≈56'02	-4.9m
	1736 Jul 05 03:02	0ಂತಾ		asc. node	1738 Dec 22 20:18	5° ≈ 57'16	
asc. node	1736 Jul 07 01:20	2° 5 21'39		retrograde	1738 Dec 29 19:10	6° ≈ 54'18	
morning set	1736 Jul 16 23:22	14° 5 30'49		evening set	1739 Jan 14 05:27	2° ≈ 11'15	
	1736 Jul 29 13:44	$0^{\circ}\Omega$			1739 Jan 17 22:03	30°Ŗる	
max. Earth dist.	1736 Aug 18 22:37	25° Ω 09'38	1.72874 AU	min. Earth dist.	1739 Jan 18 15:13	29° る 33'35	0.26803 AU
				inferior conj	1739 Jan 19 11:12	29° る 02'42	6°24'36
superior conj	1736 Aug 22 08:57	29° Ω 24'35	1°21'45	minimum elong	1739 Jan 19 00:45	29° る 18'52	6°22'16
minimum elong	1736 Aug 22 04:18	29° Ω 10′11	1°21'42	morning rise	1739 Jan 23 20:24	26° る 24'03	
	1736 Aug 22 20:23	0° ™		direct	1739 Feb 08 20:43	21° る 21'28	
	1736 Sep 15 23:59	0∘ ⊽		greatest brilliancy	1739 Feb 18 01:15	22° る 56'56	-4.9m
evening rise	1736 Sep 28 09:06	15° ≏ 24'41			1739 Mar 03 16:01	0° ≈	
	1736 Oct 10 02:05	0° M ₊		morning max el	1739 Mar 30 15:02	23° ≈ 02'11	46°25'44
desc. node	1736 Oct 26 14:38	20°M35'17			1739 Apr 06 13:27	0° ∀	
	1736 Nov 03 03:55	0°⊀		desc. node	1739 Apr 13 09:35	7°) €06'34	
	1736 Nov 27 06:20	0°る			1739 May 04 09:56	0° Υ	
	1736 Dec 21 10:40	0° ≈			1739 May 30 17:21	0°B	
	1737 Jan 14 20:12	0° ∀			1739 Jun 25 07:50	0°Щ	
	1737 Feb 08 17:35	0° Υ			1739 Jul 20 11:12	0°95	
asc. node	1737 Feb 16 17:58	9° Y 26'57		asc. node	1739 Aug 04 13:07	18° © 13'39	
	1737 Mar 06 15:41	0°8	45051106		1739 Aug 14 05:07	0° N	
evening max el	1737 Apr 03 15:37	29° 8 39'56	45°51′26		1739 Sep 07 14:45	0° m)	
4 41 711	1737 Apr 03 23:50	0°II	4.7	morning set	1739 Sep 24 19:11	21° m 19'59	
greatest brilliancy	1737 May 11 17:23	28° Ⅱ 06'15	-4./m		1739 Oct 01 18:00 1739 Oct 25 17:18	0∘ m	
notro ano do	1737 May 18 20:29 1737 May 22 16:45	0° © 16'53		may Earth dist	1739 Oct 23 17:18 1739 Oct 31 00:46	0°ጤ 6°ጤ39'49	1 71452 AII
retrograde	1737 May 26 11:23	0 € 10 33 30°R∏		max. Earth dist.	1/39 Oct 31 00.40	0 1163949	1.71453 AU
evening set	1737 Jun 06 18:08	30 KII 25°II54'19		superior conj	1739 Nov 02 01:31	9° ጤ 12'47	0°49'26
desc. node	1737 Jun 08 07:16	25° I I01'55		minimum elong	1739 Nov 02 01:31 1739 Nov 02 11:34	9°M44'18	0°49'01
inferior conj	1737 Jun 13 04:18	22° I I02'40	-1°08'50	minimum clong	1739 Nov 18 14:47	0° × 7	0 4701
minimum elong	1737 Jun 13 01:47	22° I 106'37		desc. node	1739 Nov 24 02:36	6° ∡ 753'59	
min. Earth dist.	1737 Jun 13 03:09	22° I I04'29	0.28940 AU	dese. Hode	1739 Dec 12 11:51	0° る	
morning rise	1737 Jun 19 09:32	18° Ⅲ 17'45	0.209 10110	evening rise	1739 Dec 12 20:01	0° る 25'41	
direct	1737 Jul 04 19:25	13° ∏ 45'57			1740 Jan 05 09:34	0° ≈	
greatest brilliancy	1737 Jul 15 02:53	15° Ⅱ 40′08	-4.7m		1740 Jan 29 09:31	0° ∀	
8	1737 Aug 07 09:01	0ಂತಾ			1740 Feb 22 14:18	0° Υ	
morning max el	1737 Aug 22 15:41	13° © 38'39	45°52'37	asc. node	1740 Mar 16 05:50	27° Ƴ 41'25	
•	1737 Sep 07 19:15	$0^{\circ}\Omega$			1740 Mar 18 03:38	0°B	
asc. node	1737 Sep 29 10:46	23° Ω 51'13			1740 Apr 12 06:45	$\Pi^{\circ}0$	
	1737 Oct 04 19:26	0° m			1740 May 08 08:47	0 \circ \odot	
	1737 Oct 30 04:23	0∘ ⊽			1740 Jun 05 09:24	$0^{\circ}\Omega$	
	1737 Nov 23 17:57	0° M.		evening max el	1740 Jun 13 03:20	7° Ω 36′52	45°23'18
	1737 Dec 17 22:06	0° ∡ ¹		desc. node	1740 Jul 05 19:14	26° Ω 48'42	
	1738 Jan 10 22:23	0°ප			1740 Jul 10 15:01	0° m	
desc. node	1738 Jan 19 00:08	10° පි 06'08		greatest brilliancy	1740 Jul 21 15:49	5° m 24'30	-4.7m
	1738 Feb 03 21:48	0° ≈		retrograde	1740 Jul 31 18:23	7° m 14'39	
morning set	1738 Feb 24 20:22	26° ≈ 10′16		evening set	1740 Aug 18 06:13	1° m/30'58	
	1738 Feb 27 22:00	0°) €			1740 Aug 20 18:31	30° R Ω	
	1738 Mar 24 00:10	$0^{\circ}\Upsilon$		inferior conj	1740 Aug 22 02:29	29° Ω 10′39	
				minimum elong	1740 Aug 21 20:59	29° Ω 19'10	
superior conj	1738 Apr 05 09:17	15° Y 21'39		min. Earth dist.	1740 Aug 22 11:25	28° Ω 56'49	0.28675 AU
minimum elong	1738 Apr 05 18:32	15° Y 50′20	1°13'01	morning rise	1740 Aug 25 11:34	27° Ω 06′25	

1.	1740 0 10 14 04	200 0 57107			1742 F 1 27 10 06	100 1 41142	
direct	1740 Sep 12 14:04	20° Ω 57'07		evening rise	1743 Feb 27 18:06	18°) (41′42	
greatest brilliancy	1740 Sep 23 12:55	23° Ω 08'43	-4.8m		1743 Mar 08 19:56	0° Υ	
	1740 Oct 06 03:47	0° m			1743 Apr 02 01:23	0°8	
asc. node	1740 Oct 26 22:36	17° Mp 23'54		asc. node	1743 Apr 13 17:52	14° 8 21'39	
morning max el	1740 Nov 01 18:28	23°Mp06'53	46°33'58		1743 Apr 26 13:04	Π $^{\circ}0$	
	1740 Nov 08 11:20	0∘ ⊽			1743 May 21 08:36	0 \circ \odot	
	1740 Dec 05 11:18	0°M			1743 Jun 15 14:48	$0^{\circ}\Omega$	
	1740 Dec 30 19:02	0° ∡ ¹			1743 Jul 11 13:53	0° m y	
	1741 Jan 24 11:09	5°0		desc. node	1743 Aug 03 06:57	25° m 06'31	
desc. node	1741 Feb 15 11:59	27° る 03'59		4000. 11040	1743 Aug 07 21:20	0∘ ʊ	
desc. node	1741 Feb 17 21:09	27 ⊙ 03 37		evening max el	1743 Aug 25 11:25	0 — 17° Ω 48'38	46°06'47
		0 ∞		evening max er	-	0°M	40 0047
	1741 Mar 14 05:12			1 1111	1743 Sep 07 21:37		4.0
	1741 Apr 07 13:18	0° Υ		greatest brilliancy	1743 Oct 04 15:29	16°M47'56	-4.8m
	1741 May 01 22:21	0°8		retrograde	1743 Oct 13 18:04	18°M19'10	
morning set	1741 May 07 21:20	7° 8 19'18		evening set	1743 Oct 29 09:56	13°M37'06	
	1741 May 26 08:22	Π $^{\circ}0$		inferior conj	1743 Nov 03 10:49	10° ™ 38′20	-5°04'04
asc. node	1741 Jun 08 15:33	16° Ⅱ 19'51		minimum elong	1743 Nov 03 20:38	10°M23'21	5°01'29
				min. Earth dist.	1743 Nov 04 04:52	10°M10'48	0.26912 AU
superior conj	1741 Jun 13 19:12	22° Ⅱ 39'36	0°12'14	morning rise	1743 Nov 09 06:49	7°M12'30	
minimum elong	1741 Jun 13 16:41	22° Ⅱ 31'54	0°12'07	direct	1743 Nov 24 03:42	2°M51'37	
behind sun begin	1741 Jun 13 01:59	21° ∏ 46'44		asc. node	1743 Nov 24 10:25	2°M51'43	
behind sun end	1741 Jun 14 07:23	23° I I17'03		greatest brilliancy	1743 Dec 05 00:37	5°M05'28	-4.9m
max. Earth dist.	1741 Jun 13 08:33	23° I 17'03	1 72600 AII	greatest offinality		0° √ 1	-4.7111
max. Earth dist.			1.73600 AU		1744 Jan 07 13:13		46057111
	1741 Jun 19 18:34	0°©		morning max el	1744 Jan 13 21:01	6° ⊀ 17'31	46°5/11
	1741 Jul 14 04:12	0 $^{\circ}\Omega$			1744 Feb 04 23:04	0°ප	
evening rise	1741 Jul 19 18:01	6° Ω 51'42			1744 Mar 02 02:15	0° ≈	
	1741 Aug 07 13:12	0° m p		desc. node	1744 Mar 14 23:52	15°≈12'24	
	1741 Aug 31 22:27	0∘ ⊽			1744 Mar 27 10:16	0° ∀	
	1741 Sep 25 09:13	0°M₊			1744 Apr 21 10:08	$0^{\circ}\mathbf{\Upsilon}$	
desc. node	1741 Sep 28 04:48	3°M26'49			1744 May 16 06:08	$8^{\circ 0}$	
	1741 Oct 19 22:46	0° ∡ ¹			1744 Jun 09 23:33	$\Pi^{\circ}0$	
	1741 Nov 13 17:06	ව°0			1744 Jul 04 13:59	0°€	
	1741 Dec 08 21:31	0° ≈		asc. node	1744 Jul 06 03:17	1° © 54'08	
	1742 Jan 04 03:10	0°) €		morning set	1744 Jul 14 17:07	12° © 24'42	
asc. node	1742 Jan 19 08:07	16° ¥ 12'28			1744 Jul 29 00:34	$0^{\circ}\Omega$	
evening max el	1742 Jan 20 01:23	16°) 56'28	47°01'08	max. Earth dist.	1744 Aug 16 15:27	22° Ω 59'40	1.72921 AU
evening max er	1742 Feb 02 15:33	0°Υ	17 01 00	max. Earth dist.	171111ag 10 13.27	22 0037 10	1.72721710
greatest brilliancy	1742 Mar 01 03:32	18° Υ '02'06	-4.9m	superior conj	1744 Aug 20 02:33	27° Ω 16'54	1°20'50
		20° Υ '08'22	-4.9111		_	27°Ω00'46	
retrograde	1742 Mar 11 17:22			minimum elong	1744 Aug 19 21:20		1 20 40
evening set	1742 Mar 29 02:31	14°Υ14'13			1744 Aug 22 07:12	0° m)	
inferior conj	1742 Apr 01 20:20	11° Y 54′26	7°40'42		1744 Sep 15 10:54	0∘ ⊽	
minimum elong	1742 Apr 02 04:44	11° Y 41′12	7°39'31	evening rise	1744 Sep 26 00:15	13° ≏ 08'13	
min. Earth dist.	1742 Apr 01 15:10	12° Y 02'35	0.28317 AU		1744 Oct 09 13:10	0°M₊	
morning rise	1742 Apr 06 07:16	9° Ƴ 10'01		desc. node	1744 Oct 25 16:48	20° ™ 07'08	
direct	1742 Apr 22 23:27	3° Ƴ 47'56			1744 Nov 02 15:12	0° ∡ ¹	
greatest brilliancy	1742 May 02 11:59	5° Y 28'31	-4.8m		1744 Nov 26 17:52	8°0	
desc. node	1742 May 10 21:27	9° Ƴ 16'17			1744 Dec 20 22:34	0° ≈	
	1742 Jun 06 17:36	0°8			1745 Jan 14 08:42	0° ∀	
morning max el	1742 Jun 10 22:51	3° 8 58'16	45°47'59		1745 Feb 08 07:08	$0^{\circ}\mathbf{\Upsilon}$	
Ü	1742 Jul 06 08:26	0°Ⅲ		asc. node	1745 Feb 15 19:55	8° Y 51'39	
	1742 Aug 02 06:30	0. 0		use. Houe	1745 Mar 06 07:29	0° 8	
	1742 Aug 27 23:02	0° U		evening max el	1745 Apr 01 06:03	27° 8 23'56	15052126
1-	=			evening max er	•		43 33 20
asc. node	1742 Sep 01 00:57	4° Ω 51'39		1 1111	1745 Apr 03 22:21	0°II	4.7
	1742 Sep 21 20:45	0° т р		greatest brilliancy	1745 May 09 10:18	25° Ⅲ 57′20	-4.7m
	1742 Oct 16 05:45	0∘ ⊽		retrograde	1745 May 20 08:49	28° ∏ 07'50	
	1742 Nov 09 07:00	0°M₊		evening set	1745 Jun 04 10:46	23° Ⅱ 44'33	
greatest brilliancy	1742 Nov 17 09:30	10°M09'34	-3.9m	desc. node	1745 Jun 07 09:17	22° ∏ 02'47	
	1742 Dec 03 04:26	0° ∡ ¹		inferior conj	1745 Jun 10 20:40	19° Ⅱ 53'32	
morning set	1742 Dec 07 01:59	4° ₰ 754'07		minimum elong	1745 Jun 10 18:52	19° Ⅱ 56′22	0°48'38
desc. node	1742 Dec 21 14:21	23° ₹ 09'57		min. Earth dist.	1745 Jun 10 20:04	19° Ⅱ 54′28	0.28931 AU
	1742 Dec 27 00:40	5°0		morning rise	1745 Jun 17 02:59	16° Ⅱ 06'56	
				direct	1745 Jul 02 10:55	11° Ⅱ 36'47	
superior conj	1743 Jan 17 18:31	27° る 20'53	-0°59'04	greatest brilliancy	1745 Jul 12 19:24	13° Ⅱ 31′27	-4.7m
minimum elong	1743 Jan 17 06:33	26° ප් 43'18		5y	1745 Aug 07 15:39	0°95	
violig	1743 Jan 19 21:09	0°≈		morning max el	1745 Aug 20 06:43	11° © 25'56	45°51'43
max. Earth dist.	1743 Jan 20 09:43	0°≈39'29	1.71215 AU	morning max or	1745 Sep 07 12:40	0°Ω	15 51 75
max. Darui Uist.	1743 Jan 20 09.43 1743 Feb 12 19:05	0 ≈3929 0° ∺	1./1213 AU	asc. node	1745 Sep 07 12:40 1745 Sep 28 12:54	23° Ω 15'44	
	1743 150 12 19.03	υ Λ		asc. Houe	1745 Sep 20 12.34	23 66 13 44	

	1745 0 + 04 00 20	00.00			1740) 4 07 22 20	006	
	1745 Oct 04 09:30	0° m)			1748 May 07 23:28	0°©	
	1745 Oct 29 17:04	0∘ 亚			1748 Jun 05 05:18	0° N	45022150
	1745 Nov 23 05:56	0° M .		evening max el	1748 Jun 10 19:43	5° Ω 28'01	45°22'58
	1745 Dec 17 09:40	0° ∡ 7		desc. node	1748 Jul 04 21:12	25° Ω 37'17	
	1746 Jan 10 09:40	0°る			1748 Jul 12 01:23	0° m)	
desc. node	1746 Jan 18 02:08	9° ප 37'16		greatest brilliancy	1748 Jul 19 04:58	3° To 11'09	-4.7m
	1746 Feb 03 08:52	0° ≈		retrograde	1748 Jul 29 09:45	5° m 02'48	
morning set	1746 Feb 22 07:50	23°≈41'58			1748 Aug 14 17:06	30°R€	
	1746 Feb 27 08:56	0°)		evening set	1748 Aug 15 18:28	29° Ω 23′18	
	1746 Mar 23 11:01	$0^{\circ}\mathbf{\Upsilon}$		inferior conj	1748 Aug 19 17:50	26° Ω 58'08	
				minimum elong	1748 Aug 19 11:41	27° Ω 07'40	8°13'11
superior conj	1746 Apr 02 23:45	13° Y 04′20		min. Earth dist.	1748 Aug 20 01:31	26° Ω 46'14	0.28712 AU
minimum elong	1746 Apr 03 08:40	13° Ƴ 31'59	1°14'50	morning rise	1748 Aug 23 04:46	24° Ω 51'04	
max. Earth dist.	1746 Apr 06 14:30	17° Ƴ 33'04	1.72623 AU	direct	1748 Sep 10 06:31	18° Ω 44'19	
	1746 Apr 16 15:56	$_{0\circ}$ 8		greatest brilliancy	1748 Sep 21 03:23	20° Ω 54'18	-4.8m
evening rise	1746 May 11 05:59	0° Ⅱ 18'17			1748 Oct 06 22:49	0° m)	
asc. node	1746 May 11 05:45	0° Ⅱ 17'32		asc. node	1748 Oct 26 00:40	16° m 31'18	
	1746 May 11 00:02	Π $\circ 0$		morning max el	1748 Oct 30 09:55	20° m 50'41	46°32'23
	1746 Jun 04 11:13	0ං වෙ			1748 Nov 08 06:41	0∘ ⊽	
	1746 Jun 29 01:33	0 $^{\circ}\Omega$			1748 Dec 05 02:18	0° M ₊	
	1746 Jul 23 20:02	O° My			1748 Dec 30 08:17	0° ∡ 7	
	1746 Aug 17 20:54	0∘ ⊽			1749 Jan 23 23:28	8°0	
desc. node	1746 Aug 30 18:51	15° ≏ 17'56		desc. node	1749 Feb 14 14:00	26° る 33'55	
	1746 Sep 12 07:55	0°M			1749 Feb 17 08:52	0° ≈	
	1746 Oct 08 12:43	0° ∡ ¹			1749 Mar 13 16:28	0°) €	
	1746 Nov 05 10:45	6°0			1749 Apr 07 00:13	0 ° Υ	
evening max el	1746 Nov 06 14:01	1° る 08'45	47°11'18		1749 May 01 09:02	0°B	
•	1746 Dec 11 17:53	0° ≈		morning set	1749 May 05 14:26	5° 8 11'40	
greatest brilliancy	1746 Dec 17 05:25	2° ≈ 28'47	-4.9m	C	1749 May 25 18:54	$\Pi^{\circ}0$	
asc. node	1746 Dec 21 22:16	3° ≈ 51'47		asc. node	1749 Jun 07 17:30	15° Ⅲ 53'35	
retrograde	1746 Dec 27 08:31	4°≈27'01					
	1747 Jan 11 06:52	30°R₹		superior conj	1749 Jun 11 13:20	20° Ⅲ 35'35	0°09'07
evening set	1747 Jan 11 15:00	29° ♂ 48'44		minimum elong	1749 Jun 11 11:27	20° Ⅱ 29'49	0°09'00
min. Earth dist.	1747 Jan 16 04:29	27° පි 06'19	0.26754 AU	behind sun begin	1749 Jun 10 16:40	19° Ⅲ 32'06	
inferior conj	1747 Jan 17 00:00	26° පි 36'15	6°07'52	behind sun end	1749 Jun 12 06:15	21° I I27'33	
minimum elong	1747 Jan 16 13:33	26° ප 52'20	6°05'25	max. Earth dist.	1749 Jun 11 08:12	20° Ⅱ 19'49	1.73597 AU
morning rise	1747 Jan 21 12:27	23° る 53'22	0 03 23	max. Dartii dist.	1749 Jun 19 05:05	0°95	1.755) / 110
direct	1747 Feb 06 08:56	18° ろ 55'28			1749 Jul 13 14:48	0° U	
greatest brilliancy	1747 Feb 15 14:38	10 3 33 20 20° る 32'15	-4.9m	evening rise	1749 Jul 17 12:58	4° Ω 49'39	
greatest offinancy	1747 Mar 04 14:55	0°≈	-4.7111	evening rise	1749 Aug 06 23:59	0°m)	
morning max el	1747 Mar 04 14:55 1747 Mar 28 05:08	0 ∞ 20° ≈ 42'27	46°27'19		1749 Aug 31 09:32	0° ي س	
morning max ci	1747 Apr 06 09:38	20 ≈ 42 27 0° H	40 2/ 19		1749 Aug 31 09:32 1749 Sep 24 20:44	0° m .	
desc. node	1747 Apr 00 09:38 1747 Apr 12 11:47	6° ∺ 23'22		desc. node	1749 Sep 24 20.44 1749 Sep 27 06:55	2°M57'52	
desc. Hode	1747 Apr 12 11:47 1747 May 04 01:07	0 γ(23 22 0° γ		desc. Hode	1749 Oct 19 10:55	2 11 6 3 / 32 0° √	
	1747 May 30 06:27	0°8			1749 Nov 13 06:10	0°る	
	•	0°II				0° ≈	
	1747 Jun 24 19:50 1747 Jul 19 22:33	0°e			1749 Dec 08 12:06 1750 Jan 03 21:01	0 ∞ 0° ∺	
asc. node	1747 Aug 03 15:08	17° 9 345'58		evening max el	1750 Jan 17 17:08	0 X 14° ¥ 39'13	47°02'58
asc. Houe	1747 Aug 03 15:08 1747 Aug 13 16:07	17 3 43 38		asc. node	1750 Jan 17 17:08 1750 Jan 18 10:09	15° H 22'24	47 02 36
	1747 Sep 07 01:34	0° m)		asc. nouc	1750 Feb 02 21:22	13 χ2224 0° Υ	
morning sot	•			grantast brillianav		15° Υ 47'02	-4.9m
morning set	1747 Sep 22 10:40	19°№05'12 0° <u>മ</u>		greatest brilliancy	1750 Feb 26 19:49	13° Y $52'35$	-4.9111
	1747 Oct 01 04:46	0° M		retrograde	1750 Mar 09 09:11	11° Y 55'01	
Fauth diet	1747 Oct 25 04:07		1 71402 ATT	evening set	1750 Mar 26 20:36		7050146
max. Earth dist.	1747 Oct 28 12:44	4°M12'47	1.71492 AU	inferior conj	1750 Mar 30 11:40	9° Υ 39'11	7°50'46
	1747 0 + 20 14 06	60 m 47120	0050105	minimum elong	1750 Mar 30 19:37	9° Υ 26'39	7°49'43
superior conj	1747 Oct 30 14:06	6°M47'39		min. Earth dist.	1750 Mar 30 05:38	9° ℃ 48'43	0.28274 AU
minimum elong	1747 Oct 31 00:21	7°M19'49	0°52'01	morning rise	1750 Apr 03 18:57	7°Υ00'00	
	1747 Nov 18 01:40	0° ∡ 7		direct	1750 Apr 20 14:34	1° Υ 33'44	4.0
desc. node	1747 Nov 23 04:36	6°×26'01		greatest brilliancy	1750 Apr 30 01:12	3° Y 12'44	-4.8m
evening rise	1747 Dec 10 06:24	27° ₹ 53'05		desc. node	1750 May 09 23:22	7° Y 52'37	
	1747 Dec 11 22:49	0°ප			1750 Jun 06 17:18	0°8	45040100
	1748 Jan 04 20:39	0° ≈		morning max el	1750 Jun 08 13:50	1° 8 45'51	45°48'39
	1748 Jan 28 20:43	0° ∀			1750 Jul 06 00:17	0° I I	
_	1748 Feb 22 01:42	0°Υ			1750 Aug 01 19:45	0° ©	
asc. node	1748 Mar 15 08:00	27° Y 12′20		_	1750 Aug 27 11:05	0° N	
	1748 Mar 17 15:27	0°8		asc. node	1750 Aug 31 03:05	4° Ω 22'22	
	1748 Apr 11 19:28	Π °0			1750 Sep 21 08:12	0° m)	

	1770 0 + 15 16 54	00.0			1752) (10 01 20	0.50TF.5014.4	
	1750 Oct 15 16:54	0∘ 亚		retrograde	1753 May 18 01:30	25° Ⅱ 59'44	
	1750 Nov 08 18:00	0°M	2.0	evening set	1753 Jun 02 03:43	21° I I35'18	
greatest brilliancy	1750 Nov 18 23:44	12°M50'27	-3.9m	desc. node	1753 Jun 06 11:18	19° Ⅱ 03'04	0000106
	1750 Dec 02 15:23	0° ⊀¹		inferior conj	1753 Jun 08 13:12	17° Ⅱ 45'10	
morning set	1750 Dec 04 12:50	2° 🖈 22'55		minimum elong	1753 Jun 08 12:07	17° Ⅱ 46'52	
desc. node	1750 Dec 20 16:19	22° ₹ 41'48		min. Earth dist.	1753 Jun 08 12:57	17° Ⅱ 45'35	0.28919 AU
	1750 Dec 26 11:35	0°る		morning rise	1753 Jun 14 20:31	13° Ⅱ 57'18	
				direct	1753 Jun 30 02:43	9° Ⅱ 28'18	
superior conj	1751 Jan 15 04:09	24°₹46′12		greatest brilliancy	1753 Jul 10 11:56	11° Ⅱ 23'37	-4.7m
minimum elong	1751 Jan 14 16:20	24° る 09'03			1753 Aug 07 19:56	0ა ௐ	
max. Earth dist.	1751 Jan 17 15:57		1.71186 AU	morning max el	1753 Aug 17 22:51	9° © 16'33	45°50'56
	1751 Jan 19 08:02	0° ≈			1753 Sep 07 05:32	0 ° Ω	
	1751 Feb 12 05:56	0° ∀		asc. node	1753 Sep 27 14:58	22° Ω 40'45	
evening rise	1751 Feb 25 05:18	16° ∺ 13′00			1753 Oct 03 23:18	0° m ∕	
	1751 Mar 08 06:48	0 ° $\mathbf{\Upsilon}$			1753 Oct 29 05:37	0∘ ⊽	
	1751 Apr 01 12:21	$8^{\circ 0}$			1753 Nov 22 17:52	0°M₊	
asc. node	1751 Apr 12 19:55	13° 8 54'10			1753 Dec 16 21:16	0° ∡ ¹	
	1751 Apr 26 00:14	Π $^{\circ}0$			1754 Jan 09 21:03	0°ප	
	1751 May 20 20:13	0° ©		desc. node	1754 Jan 17 04:16	9° る 08'28	
	1751 Jun 15 03:16	$0^{\circ}\Omega$			1754 Feb 02 20:05	0° ≈	
	1751 Jul 11 04:05	O° Mp		morning set	1754 Feb 19 18:43	21° ≈ 11′23	
desc. node	1751 Aug 02 09:01	24° M 26'08			1754 Feb 26 19:59	0°) €	
	1751 Aug 07 15:30	0∘ ত			1754 Mar 22 21:57	$0^{\circ}\mathbf{\Upsilon}$	
evening max el	1751 Aug 22 23:54	15° ≙ 26'58	46°04'10				
	1751 Sep 08 06:53	0°M		superior conj	1754 Mar 31 13:50	10° Ƴ 45′26	-1°16'44
greatest brilliancy	1751 Oct 02 04:52	14°M24'55	-4.8m	minimum elong	1754 Mar 31 22:19	11° Y 11'47	1°16'32
retrograde	1751 Oct 11 05:38	15°M54'55		max. Earth dist.	1754 Apr 04 04:02	15° Ƴ 12'42	1.72569 AU
evening set	1751 Oct 27 01:33	11°ML08'21			1754 Apr 16 02:47	0°B	
inferior conj	1751 Oct 31 23:34	8°M13'45	-5°22'56	evening rise	1754 May 08 22:33	28° 8 08'20	
minimum elong	1751 Nov 01 09:41	7° M 58'18	5°20'23	asc. node	1754 May 10 07:42	29° 8 50'12	
min. Earth dist.	1751 Nov 01 18:59	7° M 44'07	0.26973 AU		1754 May 10 10:53	0°II	
morning rise	1751 Nov 06 17:11	4°M50'45			1754 Jun 03 22:11	0°95	
direct	1751 Nov 21 16:32	0°M25'44			1754 Jun 28 12:48	$0^{\circ}\Omega$	
asc. node	1751 Nov 23 12:21	0°M29'44			1754 Jul 23 07:46	0° m/y	
greatest brilliancy	1751 Dec 02 15:46	2°M41'19	-4.9m		1754 Aug 17 09:27	0∘ ⊽	
8	1752 Jan 07 14:09	0° ∡ 7	.,,	desc. node	1754 Aug 29 21:01	14° Ω 45'40	
morning max el	1752 Jan 11 09:41	3° × ⁷ 49'51	46°57'25	dese. Hode	1754 Sep 11 21:50	0° ™	
morning man vi	1752 Feb 04 16:04	0° ਰ	10 0 / 20		1754 Oct 08 05:14	0° ⊼ 7	
	1752 Mar 01 16:26	0° ≈		evening max el	1754 Nov 04 04:15	28° × ⁷ 45'50	47°09'49
desc. node	1752 Mar 14 02:02	14° ≈ 39'08		evening max er	1754 Nov 05 09:57	0°る	17 05 15
desc. node	1752 Mar 26 23:01	0° ∀			1754 Dec 14 18:33	0° ≈	
	1752 Apr 20 22:02	0° Υ		greatest brilliancy	1754 Dec 14 18:14	29° る 59'43	-4.9m
	1752 May 15 17:28	0°8		asc. node	1754 Dec 21 00:21	1°≈39'55	1.9111
	1752 Jun 09 10:30	0°II		retrograde	1754 Dec 24 21:55	1°≈58'17	
	1752 Jul 04 00:41	0 . ಪ		retrograde	1755 Jan 03 15:43	30°Rる	
asc. node	1752 Jul 05 05:22	1° 5 27'46		evening set	1755 Jan 09 00:31	27° る 24'33	
morning set	1752 Jul 12 11:18	10°520'36		min. Earth dist.	1755 Jan 13 17:23	24° る 37'37	0.26713 AU
morning sec	1752 Jul 28 11:09	0°N		inferior conj	1755 Jan 14 12:33	24°る08'09	5°50'04
max. Earth dist.	1752 Aug 14 11:07		1.72969 AU	minimum elong	1755 Jan 14 02:13	24°る24'02	
max. Earth dist.	17327145 11 11.07	20 0037 13	1.72707 110	morning rise	1755 Jan 19 04:19	21° ට 21'02	3 17 33
superior conj	1752 Aug 17 20:34	25° Ω 11'16	1°19'49	direct	1755 Feb 03 21:39	16° පි 27'54	
minimum elong	1752 Aug 17 20:54 1752 Aug 17 14:50	24°Ω53'31		greatest brilliancy	1755 Feb 13 03:35	18° ろ 05'28	-4.9m
minimum clong	1752 Aug 17 14:30 1752 Aug 21 17:49	0° m	1 1743	greatest orimancy	1755 Mar 05 08:30	0°≈	-4 .7III
	1752 Sep 14 21:39	0∘ ʊ ○ '₩		morning max el	1755 Mar 25 19:40	18° ≈ 22'33	46°28'56
evening rise	1752 Sep 14 21:59 1752 Sep 23 15:50	0 = 10° £ 53'40		morning max cr	1755 Apr 06 05:37	0°)	40 28 30
evening rise	1752 Oct 09 00:09	0°M.		desc. node	1755 Apr 10 03:37	5°) 39'05	
desc. node	1752 Oct 24 18:47	19°MJ38'40		desc. Hode	1755 May 03 16:23	0° Υ	
desc. Hode	1752 Nov 02 02:27	0° √				%8 0°B	
	1752 Nov 26 05:25	0° ≾ '			1755 May 29 19:41 1755 Jun 24 07:58	0° Ο	
						0₀ © 0∘П	
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	1753 Jan 13 21:14	0° π 0° Υ		asc. node	1755 Aug 02 17:14		
ogo med-	1753 Feb 07 20:45				1755 Aug 13 03:16	0° Ω	
asc. node	1753 Feb 14 22:04	8° Υ 16'52		morning set	1755 Sep 06 12:33	0°M) 16°M 51'59	
ovening mar1	1753 Mar 05 23:28	0° 8	15055111	morning set	1755 Sep 20 02:45	16° Mp 51'58	
evening max el	1753 Mar 29 20:41	25° ႘ 08'49	45°55'41		1755 Sep 30 15:42	ი∘ ო 0∘ ত	
areatest built	1753 Apr 03 21:41	0° Π 22° Π 48!26	4.7	mov Ftl- U t	1755 Oct 24 15:04	0°M	1 71520 411
greatest brilliancy	1753 May 07 02:51	23° Ⅱ 48'36	-4./m	max. Earth dist.	1755 Oct 25 23:52	1°M42'47	1.71530 AU

superior conj	1755 Oct 28 03:28	4°M24'35	0°55'15	min. Earth dist.	1758 Mar 27 20:24	7° Ƴ 33'11	0.28236 AU
minimum elong	1755 Oct 28 13:50	4°M57'08	0°54'52	morning rise	1758 Apr 01 06:38	4° Ƴ 48'41	
	1755 Nov 17 12:43	0° ∡ ¹			1758 Apr 12 07:44	30° ₹ ₩	
desc. node	1755 Nov 22 06:37	5° ₹ 57'34		direct	1758 Apr 18 05:17	29°) 18′07	
evening rise	1755 Dec 07 17:13	25° ≯ 21′20			1758 Apr 24 06:58	0 ° $\mathbf{\Upsilon}$	
	1755 Dec 11 09:59	0°ಕ		greatest brilliancy	1758 Apr 27 15:08	0° Y 56'11	-4.8m
	1756 Jan 04 07:58	0°≈		desc. node	1758 May 09 01:26	6° Ƴ 30′23	
	1756 Jan 28 08:13	0° ∀		morning max el	1758 Jun 06 04:07	29° Ƴ 30'04	45°49'21
	1756 Feb 21 13:28	0° Υ			1758 Jun 06 16:36	0°8	
asc. node	1756 Mar 14 10:00	26° Y 41'31			1758 Jul 05 16:24	$\Pi^{\circ}0$	
	1756 Mar 17 03:42	0° 8			1758 Aug 01 09:21	0°9	
	1756 Apr 11 08:41	0° II			1758 Aug 26 23:29	$0^{\circ}\Omega$	
	1756 May 07 14:45	0°€		asc. node	1758 Aug 30 05:06	3° £ 51'43	
	1756 Jun 05 02:16	$0^{\circ}\Omega$			1758 Sep 20 19:58	0° m)	
evening max el	1756 Jun 08 11:56	3° Ω 17'54	45°22'50		1758 Oct 15 04:21	0° ™	
desc. node	1756 Jul 03 23:18	24° £ 23′16			1758 Nov 08 05:19	0°M	2.0
	1756 Jul 14 06:32	0° m/y		greatest brilliancy	1758 Nov 19 17:34	14°M26'20	-3.9m
greatest brilliancy	1756 Jul 16 18:55	0° m 58'15	-4.7m	morning set	1758 Dec 01 23:59	29°M51'36	
retrograde	1756 Jul 27 00:55	2° m 50'40			1758 Dec 02 02:39	0° ∡ 7	
. ,	1756 Aug 08 02:47	30°R€		desc. node	1758 Dec 19 18:28	22° ⋠ 13'16	
evening set	1756 Aug 13 06:52	27° Ω 15'39	0007145		1758 Dec 25 22:48	0°ප	
inferior conj	1756 Aug 17 09:24	24° Ω 45'30 24° Ω 55'59			1759 Jan 12 14:07	22°る11'31	0853150
minimum elong	1756 Aug 17 02:39			superior conj		22° る 11'31 21° る 35'04	
min. Earth dist.	1756 Aug 17 16:04 1756 Aug 20 22:17	24° Ω 35'08 22° Ω 35'16	0.28743 AU	minimum elong max. Earth dist.	1759 Jan 12 02:31 1759 Jan 14 19:40	21° る 33'04 24° る 59'51	1.71157 AU
morning rise	-	22 ∂ €33 16 16° Ω 31'29		max. Earm dist.	1759 Jan 18 19:12	24 ⊘ 3931	1./113/ AU
direct greatest brilliancy	1756 Sep 07 22:53 1756 Sep 18 18:04	18° Ω 39'42	4 9m		1759 Feb 11 17:05	0 ≈ 0° ∺	
greatest offinancy	1756 Oct 07 13:14	0° M)	-4.0111	evening rise	1759 Feb 22 16:42	13° ¥ 43'56	
asc. node	1756 Oct 25 02:35	15° Mp 38'41		evening rise	1759 Mar 07 17:58	13 γ (43 30	
morning max el	1756 Oct 28 00:40	18° m 32'14	46°30'53		1759 Mar 31 23:39	0°8	
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	1756 Dec 04 17:19	0° m		asc. node	1759 Apr 25 11:48	0° Ⅱ	
	1756 Dec 29 21:38	0° ∡ 7			1759 May 20 08:16	0°©	
	1757 Jan 23 11:58	0° ਰ			1759 Jun 14 16:15	$0^{\circ}\Omega$	
desc. node	1757 Feb 13 16:08	26° පි 03'25			1759 Jul 10 18:54	0° m)	
dese. node	1757 Feb 16 20:50	0°≈		desc. node	1759 Aug 01 11:09	23° m) 44'12	
	1757 Mar 13 04:04	0°) €			1759 Aug 07 10:37	0∘ <u>⊽</u>	
	1757 Apr 06 11:32	$0^{\circ}\Upsilon$		evening max el	1759 Aug 20 12:05	13° ഫ 03'43	46°01'52
	1757 Apr 30 20:07	0°8		Č	1759 Sep 08 19:51	0°M	
morning set	1757 May 03 07:04	3° 8 01'17		greatest brilliancy	1759 Sep 29 17:51	12°ML01'00	-4.8m
_	1757 May 25 05:50	$\Pi^{\circ}0$		retrograde	1759 Oct 08 17:39	13° M .30'37	
asc. node	1757 Jun 06 19:35	15° Ⅱ 26'31		evening set	1759 Oct 24 17:23	8°M38'59	
				inferior conj	1759 Oct 29 12:28	5° M 48'45	-5°41'07
superior conj	1757 Jun 09 07:06	18° Ⅱ 29'18	0°05'55	minimum elong	1759 Oct 29 22:48	5°M32'59	5°38'36
minimum elong	1757 Jun 09 05:53	18° Ⅱ 25'31	0°05'52	min. Earth dist.	1759 Oct 30 08:58	5° M ₁7'30	0.27036 AU
behind sun begin	1757 Jun 08 08:41	17° Ⅱ 20′25		morning rise	1759 Nov 04 03:34	2°M29'10	
behind sun end	1757 Jun 10 03:04	19° Ⅱ 30′38			1759 Nov 09 07:41	30° ₹ Ω	
max. Earth dist.	1757 Jun 09 06:19	18° Ⅱ 26'54	1.73586 AU	direct	1759 Nov 19 05:42	27° ≙ 59'22	
	1757 Jun 18 15:58	0 \circ \odot		asc. node	1759 Nov 22 14:31	28° ≏ 12'53	
	1757 Jul 13 01:45	0 $^{\circ}$ Ω			1759 Nov 29 13:25	0° M	
evening rise	1757 Jul 15 07:44	2° Ω 46′00		greatest brilliancy	1759 Nov 30 07:01	0°M16'55	-4.9m
	1757 Aug 06 11:07	0°Щ			1760 Jan 07 14:14	0° ∡ ¹	
	1757 Aug 30 20:58	0∘ ত		morning max el	1760 Jan 08 23:19	1° ≯ 23'50	46°57'38
	1757 Sep 24 08:38	0° M			1760 Feb 04 09:00	0°ಕ	
desc. node	1757 Sep 26 08:53	2°M27'24			1760 Mar 01 06:42	0° ≈	
	1757 Oct 18 23:27	0° ∡ 7		desc. node	1760 Mar 13 03:59	14°≈04'39	
	1757 Nov 12 19:37	ව°0			1760 Mar 26 11:55	0°) €	
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	1758 Jan 03 15:32	0°)(4700 42.5		1760 May 15 05:01	8°0	
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asc. node	1758 Jan 17 12:16	14°) 30′56		1	1760 Jul 03 11:41	0°99	
	1758 Feb 03 05:55	0° γ	4.0	asc. node	1760 Jul 04 07:29	1°900'35	
greatest brilliancy	1758 Feb 24 12:20	13° Υ 31'08	-4.9m	morning set	1760 Jul 10 05:19	8°915'00	
retrograde	1758 Mar 07 00:24	15° Υ 35'33		mov Dth 11 t	1760 Jul 27 22:04	0° Ω	1 72014 417
evening set	1758 Mar 24 14:31	9° Y 34'47	0000102	max. Earth dist.	1760 Aug 12 07:29	19° Ω 00'00	1.73014 AU
inferior conj	1758 Mar 28 03:00	7° Υ 22'45 7° Υ 10'59	8°00'03	aunories con:	1760 Ava 15 14:22	23° Ω 03'59	1010141
minimum elong	1758 Mar 28 10:26	/ 1 10 39	1 3900	superior conj	1760 Aug 15 14:22	45 66 03 39	1 1041

1760 1760	minimum elong	1760 Aug 15 08:08	22° Ω 44'40	1°18'33	direct	1763 Feb 01 10:37	14° る 00'27	
Position 1760 Pos 21 07.20 Pos Pos 21 07.20		1760 Aug 21 04:45	0° m		greatest brilliancy	1763 Feb 10 16:17	15° る 38'15	-4.9m
1760 cc 18 11.25 1760 cc 18		1760 Sep 14 08:42	0∘ ত			1763 Mar 05 21:38	0° ≈	
Page	evening rise	1760 Sep 21 07:20	8° ≏ 38'06		morning max el	1763 Mar 23 09:41	16° ≈ 01′23	46°30'23
1760 Nov 9 11.55		1760 Oct 08 11:23	0° M				0° ∀	
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1761 176		1760 Nov 01 13:56				1763 May 03 07:25		
1761 18 18 1004 0°F 1763 18 21.25 1972 1973 18 21.25 1972 1973		1760 Nov 25 17:13				•		
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cerusing et 1761 May 1 1 18:31 23°E1102 1766 Oct 24 02:02 0°E0 0		-						
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evening max el 1762 Nov 01 19:06 26° \$\times 24'14 \\ 47°08'24 \\ 1762 Nov 01 19:06 26° \$\times 24'14 \\ 47°08'24 \\ 1762 Nov 05 10:20 0° \times 27° \times 30'23:36 \\ 1765 Apr 30 23:36 0° \times 51'13 \\ 1765 May 24 16:33 0° \times 30' \tim	desc. node	1762 Aug 28 22:55	14° ≏ 12'02			1765 Mar 12 15:26		
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1762 Nov 05 10:20		1762 Oct 07 22:14	0° ∡ ¹			1765 Apr 30 06:57	9° 8	
greatest brilliancy 1762 Dec 12 07:02 27°30'35 -4.9m asc. node 1765 Jun 05 21:42 15°用00'15 asc. node 1762 Dec 20 02:26 29°32'22 retrograde 1762 Dec 22 11:20 29°329'12 superior conj 1765 Jun 07 01:00 16°用24'05 0°02'44 evening set 1763 Jan 10 61:13 22°308'47 0.26669 AU behind sun begin 1765 Jun 07 00:26 16°用22'19 0°02'43 inferior conj 1763 Jan 12 01:04 21°339'52 5°31'32 behind sun end 1765 Jun 07 02:46 16°用21'30 1.73573 AU 1.73573 AU	evening max el			47°08'24	morning set	-		
asc. node 1762 Dec 20 02:26 29°号22'22 superior conj 1765 Jun 07 01:00 16°耳24'05 0°02'44 evening set 1763 Jan 06 10:16 25°号00'05 minimum elong 1765 Jun 07 00:26 16°耳22'19 0°02'43 min. Earth dist. 1763 Jan 11 06:13 22°号08'47 0.26669 AU behind sun begin 1765 Jun 06 02:03 15°耳13'36 inferior conj 1763 Jan 12 01:04 21°号39'52 5°31'32 behind sun end 1765 Jun 07 02:46 16°耳29'30 1.73573 AU minimum elong 1763 Jan 11 14:56 21°号55'25 5°28'58 max. Earth dist. 1765 Jun 07 02:46 16°耳29'30 1.73573 AU		1762 Nov 05 10:20				1765 May 24 16:33		
retrograde 1762 Dec 22 11:20 29° Z 29'12 superior conj 1765 Jun 07 01:00 16° I Z24'05 0°02'44 evening set 1763 Jan 06 10:16 25° Z 00'05 minimum elong 1765 Jun 07 00:26 16° I Z2'19 0°02'43 min. Earth dist. 1763 Jan 11 06:13 22° Z 08'47 0.26669 AU behind sun begin 1765 Jun 06 02:03 15° I I3'36 inferior conj 1763 Jan 12 01:04 21° Z 39'52 5°31'32 behind sun end 1765 Jun 07 02:46 16° I Z2'19 0°02'43 max. Earth dist. 1765 Jun 07 02:46 16° I Z2'19 1753 AU 1763 Jun	greatest brilliancy	1762 Dec 12 07:02		-4.9m	asc. node	1765 Jun 05 21:42	15° Ⅱ 00′15	
evening set 1763 Jan 06 10:16 25° 古00'05 minimum elong 1765 Jun 07 00:26 16° 耳22'19 0°02'43 min. Earth dist. 1763 Jan 11 06:13 22° 古08'47 0.26669 AU behind sun begin 1765 Jun 06 02:03 15° 耳13'36 inferior conj 1763 Jan 12 01:04 21° 古39'52 5°31'32 behind sun end 1765 Jun 07 02:48 17° 耳31'03 minimum elong 1763 Jan 11 14:56 21° 古55'25 5°28'58 max. Earth dist. 1765 Jun 07 02:46 16° 耳29'30 1.73573 AU	asc. node							
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morning rise 1763 Jan 16 20:03 18°548'32 1765 Jun 18 02:39 0°5				5°28'58	max. Earth dist.			1.73573 AU
	morning rise	1763 Jan 16 20:03	18° 6 48'32			1765 Jun 18 02:39	0.2	

	1775 1 1 12 12 20	00.0		4 41 111	1777 N 27 21 47	270 0 52157	4.0
	1765 Jul 12 12:28	0° N		greatest brilliancy	1767 Nov 27 21:47	27° £ 53'57	-4.9m
evening rise	1765 Jul 13 02:42	0° Ω 43'45		marning may al	1767 Dec 02 10:49	0° M 29° M 01'42	16957126
	1765 Aug 05 22:00 1765 Aug 30 08:09	0 ்⊽ 0°™		morning max el	1768 Jan 06 13:54 1768 Jan 07 12:44	29°11601°42 0° √ 7	40-57-30
	1765 Sep 23 20:17	0° M			1768 Feb 04 01:14	0°중	
desc. node	1765 Sep 25 20.17 1765 Sep 25 10:58	1°ML58'05			1768 Feb 04 01.14 1768 Feb 29 20:32	0°≈	
desc. Hode	1765 Oct 18 11:47	0° √		desc. node	1768 Mar 12 06:02	0 ∞ 13°≈31'28	
	1765 Nov 12 08:57	0°ろ		desc. node	1768 Mar 26 00:29	13 ≈31 28 0°) (
	1765 Dec 07 18:09	0°≈			1768 Apr 19 21:53	0° Υ	
	1766 Jan 03 10:24	0° ∺			1768 May 14 16:16	0°8	
evening max el	1766 Jan 12 21:49	9° ₩ 55'55	47°06'14		1768 Jun 08 08:36	0°II	
asc. node	1766 Jan 16 14:16	13° ∺ 38′26	47 00 14		1768 Jul 02 22:20	0°©	
ase. Houe	1766 Feb 03 17:21	0°Υ		asc. node	1768 Jul 03 09:27	0° 9 34'01	
greatest brilliancy	1766 Feb 22 04:55	11° Υ 15'16	-4.9m	morning set	1768 Jul 07 23:19	6°9510'28	
retrograde	1766 Mar 04 15:21	13° Υ 18'41	- 4 .7III	morning set	1768 Jul 27 08:37	0°Ω	
evening set	1766 Mar 22 08:09	7° Υ 14'49		max. Earth dist.	1768 Aug 10 04:39		1.73057 AU
inferior conj	1766 Mar 25 18:12	5° Υ 06'32	8°08'32	max. Earth dist.	17007146 10 01.57	17 000119	1.75057710
minimum elong	1766 Mar 26 01:05	4°Υ55'39	8°07'47	superior conj	1768 Aug 13 08:14	20° Ω 58'01	1°17'25
min. Earth dist.	1766 Mar 25 11:11	5° Υ 17'38	0.28194 AU	minimum elong	1768 Aug 13 01:32	20° Ω 37'18	1°17'17
morning rise	1766 Mar 29 18:15	2° Υ 37'39	0.20171110	minimum crong	1768 Aug 20 15:20	0° m	1 1, 1,
morning rise	1766 Apr 03 14:56	30° ₹			1768 Sep 13 19:26	0∘ ⊽	
direct	1766 Apr 15 19:23	27°\02'36		evening rise	1768 Sep 18 23:08	° – 6° ≏ 24'34	
greatest brilliancy	1766 Apr 25 05:19	28°\(\frac{1}{40}\)'25	-4 8m	evening rise	1768 Oct 07 22:17	0° ™	
greatest offinaley	1766 Apr 28 16:12	0° Υ	4.0111	desc. node	1768 Oct 22 22:57	18° M .41'53	
desc. node	1766 May 08 03:36	5° Υ 11'30		dese. Hode	1768 Nov 01 01:04	0° ⊼	
morning max el	1766 Jun 03 18:12	27° Υ 14'33	45°50'12		1768 Nov 25 04:39	∘ੰਤ	
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	1766 Jul 05 07:55	0°II			1769 Jan 12 22:35	0° ∺	
	1766 Jul 31 22:29	0°©			1769 Feb 07 00:25	0° Υ	
	1766 Aug 26 11:28	$0^{\circ}\Omega$		asc. node	1769 Feb 13 02:04	7° Υ 05'22	
asc. node	1766 Aug 29 07:06	3° Ω 22'04		asc. node	1769 Mar 05 08:21	0° と	
asc. node	1766 Sep 20 07:21	0° M)		evening max el	1769 Mar 25 04:10	20° 8 43'39	46°00'15
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	1766 Nov 07 16:16	o° m .		greatest brilliancy	1769 May 02 10:57	19° Ⅱ 29'32	-4.7m
greatest brilliancy	1766 Nov 19 22:40	15°M23'22	-3.9m	retrograde	1769 May 13 11:39	21° II 42'30	4.7III
morning set	1766 Nov 29 11:19	27°M21'56	5.7111	evening set	1769 May 28 14:03	17° I I15'34	
morning sec	1766 Dec 01 13:35	0° ₹		inferior conj	1769 Jun 03 22:03	13° I I27'14	0°10'16
desc. node	1766 Dec 18 20:31	21° х 45'21		minimum elong	1769 Jun 03 22:25	13° Ⅱ 26'39	0°10'09
dese. Hode	1766 Dec 25 09:44	ිප් 0°ප්		transit middle	1769 Jun 03 22:25	13° Ⅱ 26'39	0°10'09
	1700 Dec 23 07.44	° O		transit begin	1769 Jun 03 19:15	13° Ⅱ 31'36	0 100)
superior conj	1767 Jan 09 23:46	19° ප 36'41	-0°49'44	transit end	1769 Jun 04 01:35	13° Ⅱ 21'41	
minimum elong	1767 Jan 09 12:31	19° ප 01'17		min. Earth dist.	1769 Jun 03 21:32	13° II 28'02	0.28899 AU
max. Earth dist.	1767 Jan 11 21:32	22°る00'33	1.71139 AU	desc. node	1769 Jun 04 15:25	13° II 00'03	0.20077 110
max. Earth dist.	1767 Jan 11 21:32	0°≈	1.71137710	morning rise	1769 Jun 10 06:59	9° Ⅱ 37'48	
	1767 Feb 11 04:00	0°) €		direct	1769 Jun 25 11:43	5° Ⅱ 10'36	
evening rise	1767 Feb 20 03:35	11°) 13′56		greatest brilliancy	1769 Jul 05 19:26	7° Ⅱ 05'38	-4.7m
e vennig rise	1767 Mar 07 04:55	0°Υ		greatest stimuley	1769 Aug 07 23:58	0°95	1.7111
	1767 Mar 31 10:41	0°8		morning max el	1769 Aug 13 08:16	5° © 00'22	45°49'09
asc. node	1767 Apr 11 00:02	12° 8 57'57			1769 Sep 06 14:33	$0^{\circ}\Omega$	
	1767 Apr 24 23:04	0°Ⅱ		asc. node	1769 Sep 25 19:05	21° Ω 30'51	
	1767 May 19 20:02	0 . ಅ		ase. node	1769 Oct 03 02:44	0° m	
	1767 Jun 14 04:59	$0^{\circ}\Omega$			1769 Oct 28 06:38	0∘ ⊽	
	1767 Jul 10 09:33	0° mp			1769 Nov 21 17:39	0°M	
desc. node	1767 Jul 31 13:06	23° m 02'23			1769 Dec 15 20:19	0° ∡ 7	
dese. node	1767 Aug 07 05:49	0ಂ ರ ನಾ.ಚ.ಂತ್ರನಾ			1770 Jan 08 19:37	0° ਰ	
evening max el	1767 Aug 18 00:58	10° ≏ 43'36	45°59'42	desc. node	1770 Jan 15 08:17	8° る 10'39	
<i>3 4</i> -	1767 Sep 09 12:19	0°M	-		1770 Feb 01 18:19	0°≈	
greatest brilliancy	1767 Sep 27 06:19	9° M 38'27	-4.8m	morning set	1770 Feb 14 16:31	16° ≈ 10'30	
retrograde	1767 Oct 06 06:29	11°ML08'29		<i>5</i>	1770 Feb 25 17:58	0° ∀	
evening set	1767 Oct 22 09:26	6°ML11'37			1770 Mar 21 19:42	0° Υ	
inferior conj	1767 Oct 27 01:32	3°M25'42	-5°58'22				
minimum elong	1767 Oct 27 12:02	3°ML09'43		superior conj	1770 Mar 26 17:46	6° Y 06'50	-1°19'43
min. Earth dist.	1767 Oct 27 22:39	2°M53'33	0.27101 AU	minimum elong	1770 Mar 27 01:14	6° Υ 30'00	
morning rise	1767 Nov 01 13:59	0°M10'00		max. Earth dist.	1770 Mar 30 11:21	10° Y 44'55	1.72464 AU
<i>5</i>	1767 Nov 01 21:15	30° Ŗ≏			1770 Apr 15 00:24	0°8	
direct	1767 Nov 16 19:29	25° £ 35'05		evening rise	1770 May 04 07:29	23° 8 48'01	
asc. node	1767 Nov 21 16:33	26° ♀ 03'16		asc. node	1770 May 08 11:54	28° 8 56'41	
		35 10			, '		

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	•	0.0€		d d.		0°る 25° る 02'40	
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	1770 Aug 16 10:46	0∘ ت ۱۱۱۸			1773 Nrai 12 02:30 1773 Apr 05 09:40	0°Υ	
desc. node	1770 Aug 16 10.46 1770 Aug 28 01:01	0 <u>≈</u> 13° Ω 39'34		morning set	1773 Apr 03 09.40 1773 Apr 28 16:13	0 γ 28° Υ 41'11	
desc. node	Č	0°M		morning set		0° 8	
	1770 Sep 11 02:07	0°11℃ 0° √ 7			1773 Apr 29 17:49	0°U	
evening max el	1770 Oct 07 15:18	0 x . 24° x 03'32	47°06'47		1773 May 24 03:18	υщ	
evening max ei	1770 Oct 30 10:02		4/*004/		1772 1 04 10 00	14° ∏ 19'08	0000120
4 41 111	1770 Nov 05 11:40	0°る	4.0	superior conj	1773 Jun 04 19:00		
greatest brilliancy	1770 Dec 09 20:23	25° る 02'54	-4.9m	minimum elong	1773 Jun 04 19:06	14° Ⅱ 19'25	0°00'28
asc. node	1770 Dec 19 04:26	26°る59'50		behind sun begin	1773 Jun 03 20:31	13° Ⅱ 10'04	
retrograde	1770 Dec 20 00:29	27°る00'41		behind sun end	1773 Jun 05 17:41	15° Ⅱ 28'46	
evening set	1771 Jan 03 20:17	22° る 36'15	0.06605.444	asc. node	1773 Jun 04 23:39	14° Ⅲ 33'26	1.505.60 1.77
min. Earth dist.	1771 Jan 08 19:23	19°る40'22		max. Earth dist.	1773 Jun 04 22:27	14° ∏ 29'42	1.73562 AU
inferior conj	1771 Jan 09 13:36	19°る12'25	5°12'21		1773 Jun 17 13:22	0°®	
minimum elong	1771 Jan 09 03:44	19° る 27'34	5°09'46	evening rise	1773 Jul 10 21:44	28°5541'34	
morning rise	1771 Jan 14 11:41	16° る 16'49			1773 Jul 11 23:16	0 $^{\circ}\Omega$	
direct	1771 Jan 29 23:23	11° る 33'56			1773 Aug 05 08:59	0° m)	
greatest brilliancy	1771 Feb 08 05:15	13° ප 11'57	-4.9m		1773 Aug 29 19:29	0∘ ⊽	
	1771 Mar 06 07:01	0° ≈			1773 Sep 23 08:07	0° M	
morning max el	1771 Mar 20 22:39	13° ≈ 38′18	46°31'53	desc. node	1773 Sep 24 13:04	1°M28'19	
	1771 Apr 05 19:28	0°) €			1773 Oct 18 00:19	0° ∡	
desc. node	1771 Apr 09 17:58	4° ₩ 13'58			1773 Nov 11 22:31	0° ろ	
	1771 May 02 21:59	0 ° Υ			1773 Dec 07 09:32	0° ≈	
	1771 May 28 21:34	0°8			1774 Jan 03 06:00	0° ∀	
	1771 Jun 23 07:49	Π $^{\circ}0$		evening max el	1774 Jan 10 11:05	7° 升 30′58	47°07'45
	1771 Jul 18 08:44	0∘ ௐ		asc. node	1774 Jan 15 16:19	12°) (44′28	
asc. node	1771 Jul 31 21:18	16°\$22'44			1774 Feb 04 09:06	0° Y	
	1771 Aug 12 01:18	$0^{\circ}\Omega$		greatest brilliancy	1774 Feb 19 21:02	8° Y 57'43	-4.9m
	1771 Sep 05 10:18	O° Mp		retrograde	1774 Mar 02 06:20	11° Y ′00'46	
morning set	1771 Sep 15 10:43	12° m 25'35		evening set	1774 Mar 20 01:24	4° Y 53'46	
	1771 Sep 29 13:24	0∘ ⊽		inferior conj	1774 Mar 23 09:14	2° Y '49'05	8°16'17
max. Earth dist.	1771 Oct 20 16:26	26° £ 25'38	1.71618 AU	minimum elong	1774 Mar 23 15:29	2° Y 39'12	8°15'41
				min. Earth dist.	1774 Mar 23 01:45	3° Y '00'54	0.28152 AU
superior conj	1771 Oct 23 06:08	29° £ 38'56	1°00'36	morning rise	1774 Mar 27 05:46	0° Y 25'31	
minimum elong	1771 Oct 23 16:31	0°M11'26	1°00'14		1774 Mar 27 23:00	30° Ŗ ₩	
	1771 Oct 23 12:52	0°M		direct	1774 Apr 13 09:11	24°) 45′40	
	1771 Nov 16 10:42	0° ∡ ¹		greatest brilliancy	1774 Apr 22 19:27	26°) €23'41	-4.8m
desc. node	1771 Nov 20 10:45	5° ∡ 01'26			1774 Apr 30 21:29	$0^{\circ}\mathbf{\Upsilon}$	
evening rise	1771 Dec 02 14:12	20° ∡ 16′09		desc. node	1774 May 07 05:31	3° Y 53'53	
	1771 Dec 10 08:13	8°0		morning max el	1774 Jun 01 08:42	24° Y ′59'23	45°51'17
	1772 Jan 03 06:27	0° ≈		•	1774 Jun 06 11:57	0°B	
	1772 Jan 27 07:00	0° ∀			1774 Jul 04 23:22	$\Pi^{\circ}0$	
	1772 Feb 20 12:45	$0^{\circ}\mathbf{\Upsilon}$			1774 Jul 31 11:42	0°ಲಾ	
asc. node	1772 Mar 12 14:10	25° Ƴ 41'06			1774 Aug 25 23:37	$0^{\circ}\Omega$	
	1772 Mar 16 04:00	0°8		asc. node	1774 Aug 28 09:14	2° Ω 52′20	
	1772 Apr 10 11:02	$\Pi^{\circ}0$			1774 Sep 19 18:57	o°mp	
	1772 May 06 21:36	0°ಲಾ			1774 Oct 14 02:46	0∘ ⊽	
evening max el	1772 Jun 03 18:17	28° © 53'39	45°22'40		1774 Nov 07 03:30	0° M ₊	
•	1772 Jun 04 22:06	$0^{\circ}\Omega$		greatest brilliancy	1774 Nov 19 22:57	16°M04'31	-3.9m
desc. node	1772 Jul 02 03:22	21° Ω 49'33		morning set	1774 Nov 26 22:45	24° M 51'47	
greatest brilliancy	1772 Jul 12 00:21	26° Ω 35'43	-4.7m	Č	1774 Dec 01 00:45	0° ∡ ¹	
retrograde	1772 Jul 22 06:40	28° Ω 28'55		desc. node	1774 Dec 17 22:30	21° √ 16'31	
evening set	1772 Aug 08 07:42	23° Ω 03'05			1774 Dec 24 20:52	0°ਰ	
inferior conj	1772 Aug 12 16:53	20° Ω 22'58	-7°50'27				
minimum elong	1772 Aug 12 09:03	20° Ω 35'09	7°49'29	superior conj	1775 Jan 07 09:19	17° る 00'45	-0°46'24
min. Earth dist.	1772 Aug 12 22:26	20° Ω 14'17	0.28802 AU	minimum elong	1775 Jan 06 22:30	16° る 26'43	
morning rise	1772 Aug 16 10:13	18° Ω 05'35		max. Earth dist.	1775 Jan 09 01:53	19° る 08'17	1.71124 AU
direct	1772 Sep 03 06:29	12° Ω 08'13			1775 Jan 17 17:15	0° ≈	
greatest brilliancy	1772 Sep 14 01:19	14° Ω 14'47	-4.8m		1775 Feb 10 15:09	0° ∀	
Jy	1772 Oct 08 07:15	0° mp	-	evening rise	1775 Feb 17 14:28	8° ¥ 43′09	
morning max el	1772 Oct 23 03:59	13° mp 51'09	46°27'38	3 . 2 8v	1775 Mar 06 16:08	0° Υ	
asc. node	1772 Oct 23 06:50	13° Mp 58'16	- /		1775 Mar 30 22:01	0°8	
* **	1772 Nov 07 14:02	0° ⊽		asc. node	1775 Apr 10 02:04	12° 8 29'13	
	1772 Dec 03 22:35	0°M			1775 Apr 24 10:39	0°Ⅱ	
	1772 Dec 03 22:55 1772 Dec 28 23:56	0° ∡ 7			1775 May 19 08:07	0°©	
	20 20 25.50	- ··				- -	

	1775 Jun 13 18:03	0°N			1778 Jan 08 07:09	0°₹	
	1775 Jul 10 00:40	o°mp		desc. node	1778 Jan 14 10:25	っ 7° ਰ 41'21	
desc. node	1775 Jul 30 15:11	22° m 19'34			1778 Feb 01 05:42	0° ≈	
	1775 Aug 07 01:58	0∘ ⊽		morning set	1778 Feb 12 03:02	13° ≈ 37'56	
evening max el	1775 Aug 15 14:35	8° £ 24'37	45°57'28	Č	1778 Feb 25 05:13	0°) €	
C	1775 Sep 10 11:10	0° M			1778 Mar 21 06:50	$0^{\circ}\mathbf{\Upsilon}$	
greatest brilliancy	1775 Sep 24 18:11	7°M14'20	-4.8m				
retrograde	1775 Oct 03 19:37	8° M 44'59		superior conj	1778 Mar 24 07:12	3° Y 44'56	-1°21'01
evening set	1775 Oct 20 01:27	3°M42'58		minimum elong	1778 Mar 24 14:02	4° Y 06′10	1°20'54
inferior conj	1775 Oct 24 14:29	1°M01'14	-6°14'55	max. Earth dist.	1778 Mar 28 05:00	8° Ƴ 36'14	1.72408 AU
minimum elong	1775 Oct 25 01:03	0°M45'09	6°12'33		1778 Apr 14 11:28	9° 8	
min. Earth dist.	1775 Oct 25 11:51	0°M28'43	0.27168 AU	evening rise	1778 May 01 23:27	21° 8 35'19	
	1775 Oct 26 06:48	30° ₹ Ω		asc. node	1778 May 07 13:51	28° 8 28'39	
morning rise	1775 Oct 30 00:06	27° ≏ 49'39			1778 May 08 19:36	$\Pi^{\circ}0$	
direct	1775 Nov 14 09:39	23° ≏ 09'33			1778 Jun 02 07:18	0ಂ ತಾ	
asc. node	1775 Nov 20 18:31	23° £ 57'16			1778 Jun 26 22:51	$0^{\circ}\Omega$	
greatest brilliancy	1775 Nov 25 11:54	25° £ 28'51	-4.9m		1778 Jul 21 19:26	0° m	
	1775 Dec 04 05:34	0°M,			1778 Aug 15 23:45	0° ™	
morning max el	1776 Jan 04 04:54	26°M39'23	46°57'30	desc. node	1778 Aug 27 03:09	13° Ω 05'59	
	1776 Jan 07 10:52	0° ∡			1778 Sep 10 16:41	0°M	
	1776 Feb 03 17:35	ි. ව°0			1778 Oct 07 09:03	0° ⊼	4700 4157
JJ.	1776 Feb 29 10:35	0°≈ 12°≈ ≈57149		evening max el	1778 Oct 27 23:58	21° メ 39'34 0°る	4/*04'5/
desc. node	1776 Mar 11 08:12 1776 Mar 25 13:20	12° ≈ 57'48 0° 升		araataat brillianas	1778 Nov 05 14:46 1778 Dec 07 10:05	0°る 22° る 34'26	-4.9m
	1776 Mai 23 13.20 1776 Apr 19 09:59	0° Υ		greatest brilliancy retrograde	1778 Dec 07 10:03	22 3 34 20 24° る 30'38	-4.9111
	1776 May 14 03:52	0°8		asc. node	1778 Dec 17 12:33	24° る 29'59	
	1776 Jun 07 19:50	0°II		evening set	1778 Dec 18 00:29 1779 Jan 01 06:22	24 3 2939 20° る 10'36	
asc. node	1776 Jul 02 11:33	0°906'46		min. Earth dist.	1779 Jan 06 08:54	20 3 1030	0.26588 AU
asc. node	1776 Jul 02 09:20	0°9		inferior conj	1779 Jan 07 02:00	16° 石 43'33	4°52'25
morning set	1776 Jul 05 17:27	4°905'21		minimum elong	1779 Jan 06 16:30	16°る58'09	4°49'50
morning sec	1776 Jul 26 19:31	0°Ω		morning rise	1779 Jan 12 03:07	13° る 43'33	, 50
max. Earth dist.	1776 Aug 08 01:41		1.73095 AU	direct	1779 Jan 27 11:32	9° ට 05'44	
	C			greatest brilliancy	1779 Feb 05 18:48	10° る 44'34	-4.9m
superior conj	1776 Aug 11 02:16	18° Ω 51'37	1°16'04		1779 Mar 06 14:27	0° ≈	
minimum elong	1776 Aug 10 19:10	18° Ω 29'41	1°15'55	morning max el	1779 Mar 18 10:46	11° ≈ 11'26	46°33'21
	1776 Aug 20 02:16	0° m			1779 Apr 05 14:00	0°) €	
	1776 Sep 13 06:30	0∘ रु		desc. node	1779 Apr 08 19:54	3°) 30′47	
evening rise	1776 Sep 16 15:08	4° £ 10′36			1779 May 02 12:48	0 ° Υ	
	1776 Oct 07 09:34	0° M			1779 May 28 10:38	8°	
desc. node	1776 Oct 22 00:56	18°M12'28			1779 Jun 22 19:55	$\Pi^{\circ}0$	
	1776 Oct 31 12:38	0°⊀			1779 Jul 17 20:17	0 \circ \odot	
	1776 Nov 24 16:32	0°ಕ		asc. node	1779 Jul 30 23:24	15° © 54'39	
	1776 Dec 18 22:55	0° ≈			1779 Aug 11 12:32	$0^{\circ}\Omega$	
	1777 Jan 12 11:37	0° ∀			1779 Sep 04 21:22	0° m	
	1777 Feb 06 14:43	0° Υ		morning set	1779 Sep 13 02:48	10° m 12'09	
asc. node	1777 Feb 12 04:14	6° Y 28'52		E d E	1779 Sep 29 00:25	0° ⊽	1.71660 ATT
	1777 Mar 05 01:34	0° と 18° と 31'22	46902121	max. Earth dist.	1779 Oct 18 02:33	23° ≏ 52'27	1.71662 AU
evening max el	1777 Mar 22 20:28 1777 Apr 04 03:47	0° I	40 02 31	superior conj	1779 Oct 20 19:59	27° £ 17'22	1°03'04
greatest brilliancy	1777 Apr 04 03:47 1777 Apr 30 03:34	0° Ⅱ 17° Ⅱ 19'32	-4.7m	minimum elong	1779 Oct 20 19:39 1779 Oct 21 06:16	27° £ 17'22 27° £ 49'34	1°03'04 1°02'44
retrograde	1777 May 11 04:34	17 H 1932	-4 ./III	minimum clong	1779 Oct 21 00:10 1779 Oct 22 23:54	27 = 4934 0° M	1 02 44
evening set	1777 May 26 07:23	15° I I04'17			1779 Oct 22 23:54 1779 Nov 15 21:50	0° ⊼	
inferior conj	1777 Jun 01 14:19		0°30'13	desc. node	1779 Nov 19 12:47	4° ∡ ³32'49	
minimum elong	1777 Jun 01 15:26	11° I I15'10	0°29'53	evening rise	1779 Nov 30 01:12	17° ×7 44'51	
min. Earth dist.	1777 Jun 01 13:39	11° Ⅱ 17'58	0.28884 AU	<i>y</i>	1779 Dec 09 19:29	0°ರ	
desc. node	1777 Jun 03 17:27	9° Ⅱ 57'08	-		1780 Jan 02 17:50	0°≈	
morning rise	1777 Jun 07 23:47	7° Ⅱ 26'48			1780 Jan 26 18:34	0°)	
direct	1777 Jun 23 04:18	3°耳00′41			1780 Feb 20 00:37	$0^{\circ}\mathbf{\Upsilon}$	
greatest brilliancy	1777 Jul 03 10:19	4° Ⅱ 54'29	-4.7m	asc. node	1780 Mar 11 16:07	25° Y 09'43	
·	1777 Aug 08 00:22	0ಂತ			1780 Mar 15 16:27	0°8	
morning max el	1777 Aug 11 00:24	2° 9 50'17	45°48'24		1780 Apr 10 00:36	$\Pi^{\circ}0$	
	1777 Sep 06 06:49	$0^{\circ}\Omega$			1780 May 06 13:39	0°€	
asc. node	1777 Sep 24 21:06	20° Ω 55'38		evening max el	1780 Jun 01 08:31	26° © 38'34	45°22'49
	1777 Oct 02 16:27	0° m p			1780 Jun 04 21:44	0 $^{\circ}\Omega$	
	1777 Oct 27 19:13	0∘ ⊽		desc. node	1780 Jul 01 05:27	20° Ω 28'24	
	1777 Nov 21 05:41	0°M		greatest brilliancy	1780 Jul 09 14:43	24° Ω 23'16	-4.7m
	1777 Dec 15 08:02	0° ⊼		retrograde	1780 Jul 19 21:45	26° Ω 17'37	

	1500 4 05 10 55	200 0 5 5150			1500 5 04 05 50	^^ -	
evening set	1780 Aug 05 19:57	20° £ 55'58	5 041110		1782 Dec 24 07:53	0°ප	
inferior conj	1780 Aug 10 08:34	18° Ω 11'01			1502 1 04 10 00	1.40-70.512.0	00.40157
minimum elong	1780 Aug 10 00:16	18° £ 23'56		superior conj	1783 Jan 04 19:00	14°₹25'38	
min. Earth dist.	1780 Aug 10 13:43	18° Ω 03'00	0.28831 AU	minimum elong	1783 Jan 04 08:42	13°₹53'14	
morning rise	1780 Aug 14 04:21	15° Ω 49'59		max. Earth dist.	1783 Jan 06 08:44		1.71105 AU
direct	1780 Aug 31 21:51	9° Ω 55'39			1783 Jan 17 04:13	0° ≈	
greatest brilliancy	1780 Sep 11 17:30	12° Ω 02'29	-4.8m		1783 Feb 10 02:05	0° ∀	
	1780 Oct 08 12:53	0° m ∕		evening rise	1783 Feb 15 01:39	6° ∺ 13'58	
morning max el	1780 Oct 20 18:21	11° m 32'05	46°26'17		1783 Mar 06 03:05	0 ° $\mathbf{\gamma}$	
asc. node	1780 Oct 22 08:45	13° m 08'20			1783 Mar 30 09:05	9° 8	
	1780 Nov 07 07:43	0∘ ত		asc. node	1783 Apr 09 04:02	12° 8 01'06	
	1780 Dec 03 13:03	0°M₊			1783 Apr 23 22:00	Π $^{\circ}0$	
	1780 Dec 28 12:59	0° ∡ ¹			1783 May 18 20:00	0ං ම	
	1781 Jan 22 00:55	ರ∘ರ			1783 Jun 13 07:01	$0^{\circ}\Omega$	
desc. node	1781 Feb 10 22:17	24° る 32'39			1783 Jul 09 15:47	0° mp	
	1781 Feb 15 08:12	0° ≈		desc. node	1783 Jul 29 17:18	21°M 36'52	
	1781 Mar 11 14:16	0° ∀			1783 Aug 06 22:32	0∘ ত	
	1781 Apr 04 20:50	0 $^{\circ}$ $\mathbf{\Upsilon}$		evening max el	1783 Aug 13 05:09	6° £ 08'42	45°55'17
morning set	1781 Apr 26 08:24	26° Ƴ 29'25		C	1783 Sep 11 18:09	0°M	
Ü	1781 Apr 29 04:48	0°8		greatest brilliancy	1783 Sep 22 06:06	4°M51'29	-4.8m
	1781 May 23 14:09	0°II		retrograde	1783 Oct 01 08:42	6°M22'30	
	,			evening set	1783 Oct 17 17:37	1°ML15'38	
superior conj	1781 Jun 02 12:37	12° Ⅱ 12'39	-0°03'43	214	1783 Oct 19 21:21	30° RΩ	
minimum elong	1781 Jun 02 13:23	12° I 15'01		inferior conj	1783 Oct 22 03:33	28° £ 37'57	-6°30'42
behind sun begin	1781 Jun 01 15:10	11° I 106'44	0 03 .0	minimum elong	1783 Oct 22 14:06	28° ≏ 21'52	
behind sun end	1781 Jun 03 11:37	13° I I23'17		min. Earth dist.	1783 Oct 22 11:00 1783 Oct 23 00:56		0.27236 AU
max. Earth dist.	1781 Jun 02 17:36		1.73549 AU	morning rise	1783 Oct 23 00:30 1783 Oct 27 10:06	25° ⊆ 30'33	0.27230 AC
asc. node	1781 Jun 04 01:45	12 II 2/3/ 14° II 06'42	1.73349 AU	direct	1783 Oct 27 10:00 1783 Nov 12 00:06	20° £ 45'23	
asc. node	1781 Jun 17 00:10	0°9		asc. node	1783 Nov 12 00:00 1783 Nov 19 20:40	20 = 43 23 21° £ 57'16	
avanina riaa	1781 Jul 08 16:32	26° © 38'30				21° ⊆ 3710 23° ⊆ 04'13	4.000
evening rise				greatest brilliancy	1783 Nov 23 01:37	23 = 04 13 0° M	-4.9m
	1781 Jul 11 10:08	0° N			1783 Dec 05 10:36		46057110
	1781 Aug 04 20:03	0° m/		morning max el	1784 Jan 01 19:47	24°M17'36	46°5/19
	1781 Aug 29 06:54	0° ™			1784 Jan 07 07:55	0° ∡	
	1781 Sep 22 20:03	0°M,			1784 Feb 03 09:23	0° ට	
desc. node	1781 Sep 23 15:01	0° M 57'46			1784 Feb 29 00:12	0° ≈	
	1781 Oct 17 12:57	0° ∡		desc. node	1784 Mar 10 10:07	12°≈24'35	
	1781 Nov 11 12:11	0°ಕ			1784 Mar 25 01:45	0° ∀	
	1781 Dec 07 01:02	0° ≈			1784 Apr 18 21:39	0° Y	
	1782 Jan 03 01:59	0° ∀			1784 May 13 15:01	0°8	
evening max el	1782 Jan 08 01:03	5° ₩ 08'22	47°09'24		1784 Jun 07 06:39	$\Pi^{\circ}0$	
asc. node	1782 Jan 14 18:25	11° ∺ 50′09		asc. node	1784 Jul 01 13:38	29° Ⅱ 40'36	
	1782 Feb 05 05:51	$0^{\circ}\mathbf{\Upsilon}$			1784 Jul 01 19:58	0_{\circ} වෙ	
greatest brilliancy	1782 Feb 17 12:31	6° Ƴ 40'06	-4.9m	morning set	1784 Jul 03 11:45	2° 5 01'48	
retrograde	1782 Feb 27 21:54	8° Ƴ 43'43			1784 Jul 26 06:06	$0^{\circ}\Omega$	
evening set	1782 Mar 17 18:34	2° Ƴ 33'34		max. Earth dist.	1784 Aug 05 20:54	13° Ω 05'42	1.73135 AU
min. Earth dist.	1782 Mar 20 16:03	0° Ƴ 45'21	0.28113 AU				
inferior conj	1782 Mar 21 00:22	0° Ƴ 32'14	8°23'17	superior conj	1784 Aug 08 20:22	16° Ω 46′26	1°14'37
minimum elong	1782 Mar 21 05:59	0° Y 23′24	8°22'47	minimum elong	1784 Aug 08 12:55	16° Ω 23'24	1°14'26
	1782 Mar 21 20:51	30° ₹ ₩			1784 Aug 19 12:54	0° m y	
morning rise	1782 Mar 24 17:36	28° ℋ 13'56			1784 Sep 12 17:15	0∘ ত	
direct	1782 Apr 10 23:26	22° ∺ 29'21		evening rise	1784 Sep 14 07:09	1° £ 57'44	
greatest brilliancy	1782 Apr 20 09:22	24°) €07'20	-4.8m		1784 Oct 06 20:32	0° M.	
	1782 May 02 08:03	0 ° Υ		desc. node	1784 Oct 21 02:57	17° M 44'10	
desc. node	1782 May 06 07:36	2° Ƴ 39'22			1784 Oct 30 23:52	0° ∡ ¹	
morning max el	1782 May 30 00:16	22° Y 46'59	45°52'13		1784 Nov 24 04:08	0°ಕ	
	1782 Jun 06 08:30	0°8			1784 Dec 18 10:59	0° ≈	
	1782 Jul 04 14:32	Π°			1785 Jan 12 00:24	0° ∀	
	1782 Jul 31 00:45	0°ಅ			1785 Feb 06 04:47	$0^{\circ}\Upsilon$	
	1782 Aug 25 11:37	$0^{\circ}\Omega$		asc. node	1785 Feb 11 06:13	5° Υ 52'43	
asc. node	1782 Aug 27 11:15	2° £ 22'35			1785 Mar 04 18:40	0°8	
	1782 Sep 19 06:24	0° m)		evening max el	1785 Mar 20 12:42	16° 8 20'12	46°04'55
	1782 Oct 13 13:57	0∘ ⊽			1785 Apr 04 08:40	0°II	
	1782 Nov 06 14:36	0° m .		greatest brilliancy	1785 Apr 27 20:59	15° Ⅱ 12'19	-4 8m
greatest brilliancy	1782 Nov 00 14:30 1782 Nov 19 17:13	16°M27'12	-3.9m	retrograde	1785 May 08 21:15	17° Ⅱ 24'10	1.0111
morning set	1782 Nov 24 10:20	22°M22'36	5.7111	evening set	1785 May 08 21:13	17 H 24 10 12° H 55'06	
morning sec	1782 Nov 30 11:49	0° × 7		inferior conj	1785 May 30 06:53	9° I 08'56	0°49'58
desc. node	1782 Dec 17 00:39	0 x . 20° x 48'38		minimum elong	1785 May 30 08:43	9° П 06'03	0°49'26
acsc. Hour	1/02 DCC 1/ 00.39	20 X 40 30		minimum ciong	1/03 IVIAY 30 08.43	э доооз	U 77 4U

min Forth dist	1705 May 20, 06:16	0°πουε4	0.20060 ATT		1797 Dag 00 06:20	0°ರ	
min. Earth dist. desc. node	1785 May 30 06:16 1785 Jun 02 19:32	9° Ⅱ 09'54 6° Ⅱ 57'47	0.28868 AU		1787 Dec 09 06:30 1788 Jan 02 04:59	0° ≈	
	1785 Jun 05 16:40	5° П 18'07			1788 Jan 26 05:53	0 ≈ 0° ∀	
morning rise direct	1785 Jun 20 20:57	0° П 53'09			1788 Feb 19 12:16	0°Υ 0°Υ	
greatest brilliancy	1785 Jul 01 01:37	0 H 33 09 2° H 45'42	4.7m	asc. node	1788 Mar 10 18:08	24° Υ 39'13	
greatest offinancy	1785 Aug 07 23:03	2 11 4342	-4. /111	asc. Houe	1788 Mar 15 04:41	0° 8	
morning max el	1785 Aug 07 25:05 1785 Aug 08 15:55	0°940'13	45°47'30		1788 Apr 09 14:00	0°U	
morning max er	1785 Sep 05 22:23	0 ೨ 40 13 0°Ω	45 47 50		1788 May 06 05:38	0°9	
asc. node	1785 Sep 03 22:23 1785 Sep 23 23:04	20° Ω 21'36		evening max el	1788 May 29 23:24	24° © 26'14	45°23'13
asc. node	1785 Oct 02 05:42	0° m		evening max er	1788 Jun 04 22:01	24 3 20 14 0° Ω	43 23 13
	1785 Oct 02 03:42 1785 Oct 27 07:24	0∘ ⊽		desc. node	1788 Jun 30 07:33	19° Ω 06'11	
	1785 Nov 20 17:19	0° m.		greatest brilliancy	1788 Jul 07 04:48	22°Ω12'12	4.7m
	1785 Nov 20 17:19 1785 Dec 14 19:22	0° ⊼ 7		retrograde	1788 Jul 17 13:40	24°Ω08'27	-4./111
	1786 Jan 07 18:17	0°ਤ		evening set	1788 Aug 03 08:32	18° Ω 50'45	
desc. node	1786 Jan 13 12:26	7°る12'54		inferior conj	1788 Aug 08 00:33	16° Ω 01'06	7021122
desc. node	1786 Jan 31 16:42	7 O12 34 0°≈		minimum elong	1788 Aug 07 15:51	16° Ω 14'38	
morning set	1786 Feb 09 13:23	0 ∞ 11°≈05'54		min. Earth dist.	1788 Aug 08 05:01	15° Ω 54'10	0.28858 AU
morning set	1786 Feb 09 13:23 1786 Feb 24 16:06	0° \			-	13° Ω 36'24	0.28636 AU
	1786 Mar 20 17:35	0 Υ 0° Υ		morning rise direct	1788 Aug 11 22:54	7° Ω 45'13	
	1/80 Mai 20 1/.55	UI			1788 Aug 29 13:43	9° Ω 52'14	-4.8m
superior conj	1786 Mar 21 20:38	1° Y 24'05	102211	greatest brilliancy	1788 Sep 09 09:40 1788 Oct 08 16:03	9 3 C 3 Z 14	-4.0111
1 5	1786 Mar 22 02:45	1° Υ 43'07		marning may al	1788 Oct 18 10:03		46°24'41
minimum elong max. Earth dist.			1.72348 AU	morning max el asc. node		-	40 2441
max. Earth dist.	1786 Mar 25 21:43	0° 8	1.72346 AU	asc. node	1788 Oct 21 10:57 1788 Nov 07 00:40	12° ™ 21'08 0° ₽	
avanina riaa	1786 Apr 13 22:08 1786 Apr 29 15:24	19° 8 23'50				0°M	
evening rise		28° 8 02'31			1788 Dec 03 03:10 1788 Dec 28 01:50	0° 17⊓ 0° 27⊓	
asc. node	1786 May 06 16:01	28 G 02 31 0° Ⅱ			1789 Jan 21 13:03	0°궁	
	1786 May 08 06:15	0ಂ ខ ೧.π		daga mada		0°る 24° る 02'37	
	1786 Jun 01 18:06 1786 Jun 26 09:58	0° U		desc. node	1789 Feb 10 00:17 1789 Feb 14 19:51	24° ℃ 02′37	
						0 ≈ 0° ∀	
	1786 Jul 21 07:07	0 ்⊽ 0° மி			1789 Mar 11 01:31	0° Υ	
1 1-	1786 Aug 15 12:24	0° 22 12° 2 32'44			1789 Apr 04 07:49	0° γ 24° Υ 17'20	
desc. node	1786 Aug 26 05:03	0° M		morning set	1789 Apr 24 00:21	0° 8	
	1786 Sep 10 07:02	0 IIL 0° ∡ 7			1789 Apr 28 15:35	0°II	
avanina may al	1786 Oct 07 02:50 1786 Oct 25 13:03	0° x ¹ 19° x ¹14'27	47°03'04		1789 May 23 00:50	0-Щ	
evening max el	1786 Oct 25 13:03 1786 Nov 05 19:11	19° メ ・1427	4/-03/04	superior conj	1789 May 31 06:13	10° Ⅱ 06'31	0006156
greatest brilliancy	1/80 NOV 03 19.11	0.0					
	1796 Dec. 05, 00:16	200	4.0m		•		
	1786 Dec 05 00:16	20°る07'23	-4.9m	minimum elong	1789 May 31 07:39	10° Ⅱ 10'59	
retrograde	1786 Dec 15 00:55	22° る 01'39	-4.9m	minimum elong behind sun begin	1789 May 31 07:39 1789 May 30 10:54	10°П10'59 9°П07'12	
retrograde asc. node	1786 Dec 15 00:55 1786 Dec 17 08:34	22° ට 01'39 21°ට55'04	-4.9m	minimum elong behind sun begin behind sun end	1789 May 31 07:39 1789 May 30 10:54 1789 Jun 01 04:25	10°Д10'59 9°Д07'12 11°Д14'45	0°06'51
retrograde asc. node evening set	1786 Dec 15 00:55 1786 Dec 17 08:34 1786 Dec 29 16:37	22°る01'39 21°る55'04 17°る45'25		minimum elong behind sun begin behind sun end max. Earth dist.	1789 May 31 07:39 1789 May 30 10:54 1789 Jun 01 04:25 1789 May 31 13:51	10°Д10'59 9°Д07'12 11°Д14'45 10°Д29'59	
retrograde asc. node evening set min. Earth dist.	1786 Dec 15 00:55 1786 Dec 17 08:34 1786 Dec 29 16:37 1787 Jan 03 22:47	22°る01'39 21°る55'04 17°る45'25 14°る39'48	0.26553 AU	minimum elong behind sun begin behind sun end	1789 May 31 07:39 1789 May 30 10:54 1789 Jun 01 04:25 1789 May 31 13:51 1789 Jun 03 03:51	10°Д10'59 9°Д07'12 11°Д14'45 10°Д29'59 13°Д40'25	0°06'51
retrograde asc. node evening set min. Earth dist. inferior conj	1786 Dec 15 00:55 1786 Dec 17 08:34 1786 Dec 29 16:37 1787 Jan 03 22:47 1787 Jan 04 14:25	22°る01'39 21°る55'04 17°る45'25 14°る39'48 14°る15'46	0.26553 AU 4°31'46	minimum elong behind sun begin behind sun end max. Earth dist. asc. node	1789 May 31 07:39 1789 May 30 10:54 1789 Jun 01 04:25 1789 May 31 13:51 1789 Jun 03 03:51 1789 Jun 16 10:49	10°П10'59 9°П07'12 11°П14'45 10°П29'59 13°П40'25 0°©	0°06'51
retrograde asc. node evening set min. Earth dist. inferior conj minimum elong	1786 Dec 15 00:55 1786 Dec 17 08:34 1786 Dec 29 16:37 1787 Jan 03 22:47 1787 Jan 04 14:25 1787 Jan 04 05:21	22°ব্য1'39 21°ব্য55'04 17°ব্য5'25 14°ব্য9'48 14°ব്)15'46 14°ব29'42	0.26553 AU	minimum elong behind sun begin behind sun end max. Earth dist.	1789 May 31 07:39 1789 May 30 10:54 1789 Jun 01 04:25 1789 May 31 13:51 1789 Jun 03 03:51 1789 Jun 16 10:49 1789 Jul 06 11:35	10°П10'59 9°П07'12 11°П14'45 10°П29'59 13°П40'25 0°© 24°©36'45	0°06'51
retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise	1786 Dec 15 00:55 1786 Dec 17 08:34 1786 Dec 29 16:37 1787 Jan 03 22:47 1787 Jan 04 14:25 1787 Jan 04 05:21 1787 Jan 09 18:27	22°ব্ত01'39 21°ব্ত55'04 17°ব্ర45'25 14°ব্o39'48 14°ব্o15'46 14°ব്o29'42 11°ব്o11'31	0.26553 AU 4°31'46	minimum elong behind sun begin behind sun end max. Earth dist. asc. node	1789 May 31 07:39 1789 May 30 10:54 1789 Jun 01 04:25 1789 May 31 13:51 1789 Jun 03 03:51 1789 Jun 16 10:49 1789 Jul 06 11:35 1789 Jul 10 20:50	10°П10'59 9°П07'12 11°П14'45 10°П29'59 13°П40'25 0°© 24°©36'45 0°П	0°06'51
retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	1786 Dec 15 00:55 1786 Dec 17 08:34 1786 Dec 29 16:37 1787 Jan 03 22:47 1787 Jan 04 14:25 1787 Jan 04 05:21 1787 Jan 09 18:27 1787 Jan 24 23:14	22°ব্ত01'39 21°ব্ড55'04 17°ব্ড45'25 14°ব্ড39'48 14°ব্ড15'46 14°ব্ড29'42 11°ব্ড11'31 6°ব്38'17	0.26553 AU 4°31'46 4°29'14	minimum elong behind sun begin behind sun end max. Earth dist. asc. node	1789 May 31 07:39 1789 May 30 10:54 1789 Jun 01 04:25 1789 May 31 13:51 1789 Jun 03 03:51 1789 Jun 16 10:49 1789 Jul 06 11:35 1789 Jul 10 20:50 1789 Aug 04 06:56	10°∏10'59 9°∏07'12 11°∏14'45 10°∏29'59 13°∏40'25 0°© 24°©36'45 0°Ω 0°™	0°06'51
retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise	1786 Dec 15 00:55 1786 Dec 17 08:34 1786 Dec 29 16:37 1787 Jan 03 22:47 1787 Jan 04 14:25 1787 Jan 04 05:21 1787 Jan 09 18:27 1787 Jan 24 23:14 1787 Feb 03 08:58	22°ব্ 01'39 21°ব্ 55'04 17°ব্ 45'25 14°ব 39'48 14°ব 15'46 14°ব 29'42 11°ব 11'31 6°ব 38'17 8°ব 18'49	0.26553 AU 4°31'46	minimum elong behind sun begin behind sun end max. Earth dist. asc. node	1789 May 31 07:39 1789 May 30 10:54 1789 Jun 01 04:25 1789 May 31 13:51 1789 Jun 03 03:51 1789 Jun 16 10:49 1789 Jul 06 11:35 1789 Jul 10 20:50 1789 Aug 04 06:56 1789 Aug 28 18:07	10°∏10'59 9°∏07'12 11°∏14'45 10°∏29'59 13°∏40'25 0°© 24°©36'45 0°Ω 0°™ 0°™	0°06'51
retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	1786 Dec 15 00:55 1786 Dec 17 08:34 1786 Dec 29 16:37 1787 Jan 03 22:47 1787 Jan 04 14:25 1787 Jan 04 05:21 1787 Jan 09 18:27 1787 Jan 24 23:14 1787 Feb 03 08:58 1787 Mar 06 19:15	22°♂01'39 21°♂55'04 17°♂45'25 14°♂39'48 14°♂15'46 14°♂29'42 11°♂11'31 6°♂38'17 8°♂18'49 0°≈	0.26553 AU 4°31'46 4°29'14 -4.9m	minimum elong behind sun begin behind sun end max. Earth dist. asc. node evening rise	1789 May 31 07:39 1789 May 30 10:54 1789 Jun 01 04:25 1789 May 31 13:51 1789 Jun 03 03:51 1789 Jun 16 10:49 1789 Jul 06 11:35 1789 Jul 10 20:50 1789 Aug 04 06:56 1789 Aug 28 18:07 1789 Sep 22 07:47	10° 110'59 9° 1107'12 11° 114'45 10° 1129'59 13° 1140'25 0° 5 24° 536'45 0° 10 0° 10 0° 11	0°06'51
retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	1786 Dec 15 00:55 1786 Dec 17 08:34 1786 Dec 29 16:37 1787 Jan 03 22:47 1787 Jan 04 14:25 1787 Jan 04 05:21 1787 Jan 09 18:27 1787 Jan 24 23:14 1787 Feb 03 08:58 1787 Mar 06 19:15 1787 Mar 15 22:44	22°る01'39 21°る55'04 17°る45'25 14°る39'48 14°る15'46 14°る29'42 11°る11'31 6°る38'17 8°る18'49 0°≈ 8°≈45'03	0.26553 AU 4°31'46 4°29'14	minimum elong behind sun begin behind sun end max. Earth dist. asc. node	1789 May 31 07:39 1789 May 30 10:54 1789 Jun 01 04:25 1789 May 31 13:51 1789 Jun 03 03:51 1789 Jun 16 10:49 1789 Jul 06 11:35 1789 Jul 10 20:50 1789 Aug 04 06:56 1789 Aug 28 18:07 1789 Sep 22 07:47 1789 Sep 22 17:09	10° II 10'59 9° II 07'12 11° II 14'45 10° II 29'59 13° II 40'25 0° © 24° © 36'45 0° N 0° II 0° II 0° II 0° II 0° II	0°06'51
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retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el desc. node	1786 Dec 15 00:55 1786 Dec 17 08:34 1786 Dec 29 16:37 1787 Jan 03 22:47 1787 Jan 04 14:25 1787 Jan 04 05:21 1787 Jan 09 18:27 1787 Jan 24 23:14 1787 Feb 03 08:58 1787 Mar 06 19:15 1787 Mar 15 22:44 1787 Apr 05 07:41 1787 Apr 07 21:58 1787 May 02 03:03 1787 May 27 23:13 1787 Jun 22 07:34 1787 Jul 17 07:23 1787 Jul 30 01:24 1787 Aug 10 23:19 1787 Sep 04 08:02	22°る01'39 21°る55'04 17°정45'25 14°정39'48 14°정15'46 14°정29'42 11°311'31 6°338'17 8°318'49 0°≈ 8°≈45'03 0° 光 2° 光49'37 0° Y 0° B 0° B 15° \$27'37 0° \(\alpha \)	0.26553 AU 4°31'46 4°29'14 -4.9m	minimum elong behind sun begin behind sun end max. Earth dist. asc. node evening rise desc. node evening max el asc. node greatest brilliancy retrograde	1789 May 31 07:39 1789 May 30 10:54 1789 Jun 01 04:25 1789 May 31 13:51 1789 Jun 03 03:51 1789 Jun 16 10:49 1789 Jul 06 11:35 1789 Jul 10 20:50 1789 Aug 04 06:56 1789 Aug 28 18:07 1789 Sep 22 07:47 1789 Sep 22 17:09 1789 Oct 17 01:26 1789 Nov 11 01:48 1789 Dec 06 16:43 1790 Jan 02 22:42 1790 Jan 05 16:02 1790 Feb 06 10:56 1790 Feb 15 03:23 1790 Feb 25 13:41	10° II 10'59 9° II 07'12 11° II 14'45 10° II 29'59 13° II 40'25 0° © 24° © 36'45 0° N 0° II 0° II 28'29 0° ✓ 0° II 0° II 28'29 0° ✓ 0° II 2° X 48'06 10° X 54'08 0° Y 4° Y 20'51 6° Y 25'20	0°06'51 1.73534 AU 47°10'48
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retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el desc. node	1786 Dec 15 00:55 1786 Dec 17 08:34 1786 Dec 29 16:37 1787 Jan 03 22:47 1787 Jan 04 14:25 1787 Jan 04 05:21 1787 Jan 09 18:27 1787 Jan 24 23:14 1787 Feb 03 08:58 1787 Mar 06 19:15 1787 Mar 15 22:44 1787 Apr 05 07:41 1787 Apr 07 21:58 1787 May 02 03:03 1787 May 27 23:13 1787 Jun 22 07:34 1787 Jul 17 07:23 1787 Jul 30 01:24 1787 Aug 10 23:19 1787 Sep 04 08:02 1787 Sep 10 19:12	22°る01'39 21°る55'04 17°정45'25 14°정39'48 14°정15'46 14°정29'42 11°정11'31 6°338'17 8°정18'49 0°≈ 8°≈45'03 0° ¥ 2° ¥49'37 0° Y 0° B 0° B 15° \$27'37 0° \$\Omega\$ 0° \$\Omega\$	0.26553 AU 4°31'46 4°29'14 -4.9m	minimum elong behind sun begin behind sun end max. Earth dist. asc. node evening rise desc. node evening max el asc. node greatest brilliancy retrograde evening set min. Earth dist.	1789 May 31 07:39 1789 May 30 10:54 1789 Jun 01 04:25 1789 May 31 13:51 1789 Jun 03 03:51 1789 Jun 16 10:49 1789 Jul 06 11:35 1789 Jul 10 20:50 1789 Aug 04 06:56 1789 Aug 28 18:07 1789 Sep 22 07:47 1789 Sep 22 07:47 1789 Sep 22 17:09 1789 Oct 17 01:26 1789 Nov 11 01:48 1789 Dec 06 16:43 1790 Jan 02 22:42 1790 Jan 05 16:02 1790 Jan 13 20:25 1790 Feb 06 10:56 1790 Feb 15 03:23 1790 Feb 25 13:41 1790 Mar 15 11:10 1790 Mar 15 19:20 1790 Mar 18 05:45	10° 110'59 9° 107'12 11° 114'45 10° 129'59 13° 140'25 0° © 24° © 36'45 0° \(\Omega\) 2° \(\Omega\) 0° \(\Omega\) 0° \(\Omega\) 2° \(\Omega\) 0° \(\Omega\) 0° \(\Omega\) 2° \(\Omega\) 0° \(\Omega\) 0° \(\Omega\) 2° \(\Omega\) 0° \(\Omega\) 2° \(\Omega\) 2° \(\Omega\) 3° \(\Omega\) 28° \(\Omega\) 30° \(\Omega\) 28° \(\Omega\) 28° \(\Omega\) 28° \(\Omega\) 28° \(\Omega\) 30° \(\Omega\) 28° \(\Omega\) 28° \(\Omega\) 28° \(\Omega\) 30° \(\Omega\) 28° \(\Omega\) 30° \(\Omega\) 30° \(\Omega\)	0°06'51 1.73534 AU 47°10'48 -4.9m 0.28070 AU
retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el desc. node asc. node morning set max. Earth dist.	1786 Dec 15 00:55 1786 Dec 17 08:34 1786 Dec 29 16:37 1787 Jan 03 22:47 1787 Jan 04 14:25 1787 Jan 04 05:21 1787 Jan 09 18:27 1787 Jan 24 23:14 1787 Feb 03 08:58 1787 Mar 06 19:15 1787 Mar 15 22:44 1787 Apr 05 07:41 1787 Apr 07 21:58 1787 May 02 03:03 1787 May 27 23:13 1787 Jun 22 07:34 1787 Jul 17 07:23 1787 Jul 30 01:24 1787 Aug 10 23:19 1787 Sep 04 08:02 1787 Sep 10 19:12 1787 Sep 28 11:05 1787 Oct 15 14:52	22°301'39 21°355'04 17°345'25 14°339'48 14°315'46 14°329'42 11°311'31 6°338'17 8°318'49 0°≈ 8°≈45'03 0°升 2°升49'37 0°介 0°出 0°១ 15°927'37 0°几 0°៣ 8°№00'56 0°血 21°927'06	0.26553 AU 4°31'46 4°29'14 -4.9m 46°34'53	minimum elong behind sun begin behind sun end max. Earth dist. asc. node evening rise desc. node evening max el asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj	1789 May 31 07:39 1789 May 30 10:54 1789 Jun 01 04:25 1789 May 31 13:51 1789 Jun 03 03:51 1789 Jun 16 10:49 1789 Jul 06 11:35 1789 Jul 10 20:50 1789 Aug 04 06:56 1789 Aug 28 18:07 1789 Sep 22 07:47 1789 Sep 22 17:09 1789 Oct 17 01:26 1789 Nov 11 01:48 1789 Dec 06 16:43 1790 Jan 02 22:42 1790 Jan 05 16:02 1790 Jan 13 20:25 1790 Feb 06 10:56 1790 Feb 15 03:23 1790 Feb 25 13:41 1790 Mar 15 11:10 1790 Mar 18 05:45 1790 Mar 18 05:45	10° 110'59 9° 107'12 11° 114'45 10° 129'59 13° 140'25 0° © 24° © 36'45 0° \(\Omega\) 2° \(\Omega\) 0° \(\Omega\) 10° \(\Omega\) 12° \(\Omega\) 10° \(\Omega\) 12° \(0°06'51 1.73534 AU 47°10'48 -4.9m 0.28070 AU 8°29'25
retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el desc. node asc. node morning set max. Earth dist. superior conj	1786 Dec 15 00:55 1786 Dec 17 08:34 1786 Dec 29 16:37 1787 Jan 03 22:47 1787 Jan 04 14:25 1787 Jan 04 05:21 1787 Jan 09 18:27 1787 Jan 24 23:14 1787 Feb 03 08:58 1787 Mar 06 19:15 1787 Mar 15 22:44 1787 Apr 05 07:41 1787 Apr 07 21:58 1787 May 02 03:03 1787 May 27 23:13 1787 Jun 22 07:34 1787 Jul 17 07:23 1787 Jul 30 01:24 1787 Aug 10 23:19 1787 Sep 04 08:02 1787 Sep 10 19:12 1787 Sep 28 11:05 1787 Oct 18 10:00	22°301'39 21°355'04 17°345'25 14°339'48 14°315'46 14°329'42 11°311'31 6°338'17 8°318'49 0°≈ 8°≈45'03 0°米 2° 升49'37 0° か 0° B 0° II 0° 9 15°927'37 0° Ω 0° m 8° m 00'56 0° Ω 21° Ω27'06	0.26553 AU 4°31'46 4°29'14 -4.9m 46°34'53 1.71715 AU 1°05'25	minimum elong behind sun begin behind sun end max. Earth dist. asc. node evening rise desc. node evening max el asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong	1789 May 31 07:39 1789 May 30 10:54 1789 Jun 01 04:25 1789 May 31 13:51 1789 Jun 03 03:51 1789 Jun 16 10:49 1789 Jul 06 11:35 1789 Jul 10 20:50 1789 Aug 04 06:56 1789 Aug 28 18:07 1789 Sep 22 07:47 1789 Sep 22 17:09 1789 Oct 17 01:26 1789 Nov 11 01:48 1789 Dec 06 16:43 1790 Jan 02 22:42 1790 Jan 05 16:02 1790 Jan 13 20:25 1790 Feb 06 10:56 1790 Feb 15 03:23 1790 Feb 25 13:41 1790 Mar 15 11:10 1790 Mar 18 05:45 1790 Mar 18 15:11 1790 Mar 18 20:07	10° 110'59 9° 110'12 11° 114'45 10° 129'59 13° 140'25 0° © 24° © 36'45 0° Ω 0° № 0° № 0° № 0° № 28'29 0° ¾ 0° ♂ 0° № 2° ¼48'06 10° ¥54'08 0° ♀ 4° ♀20'51 6° ♀25'20 0° ♀12'30 30° ₧ 28° ¥28'54 28° ¥14'04 28° ₩66'19	0°06'51 1.73534 AU 47°10'48 -4.9m 0.28070 AU
retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el desc. node asc. node morning set max. Earth dist.	1786 Dec 15 00:55 1786 Dec 17 08:34 1786 Dec 29 16:37 1787 Jan 03 22:47 1787 Jan 04 14:25 1787 Jan 04 05:21 1787 Jan 09 18:27 1787 Jan 24 23:14 1787 Feb 03 08:58 1787 Mar 06 19:15 1787 Mar 15 22:44 1787 Apr 05 07:41 1787 Apr 07 21:58 1787 May 02 03:03 1787 May 27 23:13 1787 Jun 22 07:34 1787 Jul 17 07:23 1787 Jul 30 01:24 1787 Aug 10 23:19 1787 Sep 04 08:02 1787 Sep 10 19:12 1787 Sep 28 11:05 1787 Oct 18 10:00 1787 Oct 18 10:00 1787 Oct 18 10:00	22°301'39 21°355'04 17°345'25 14°339'48 14°315'46 14°329'42 11°311'31 6°338'17 8°318'49 0°≈ 8°≈45'03 0°升 2°升49'37 0°Ŷ 0°월 0°Ⅱ 0°9 15°927'37 0°Ω 0°™ 8°™000'56 0°Ω 21°Ω27'06	0.26553 AU 4°31'46 4°29'14 -4.9m 46°34'53 1.71715 AU 1°05'25	minimum elong behind sun begin behind sun end max. Earth dist. asc. node evening rise desc. node evening max el asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	1789 May 31 07:39 1789 May 30 10:54 1789 Jun 01 04:25 1789 May 31 13:51 1789 Jun 03 03:51 1789 Jun 16 10:49 1789 Jul 06 11:35 1789 Jul 10 20:50 1789 Aug 04 06:56 1789 Aug 28 18:07 1789 Sep 22 07:47 1789 Sep 22 17:09 1789 Oct 17 01:26 1789 Nov 11 01:48 1789 Dec 06 16:43 1790 Jan 02 22:42 1790 Jan 05 16:02 1790 Jan 13 20:25 1790 Feb 06 10:56 1790 Feb 15 03:23 1790 Feb 25 13:41 1790 Mar 15 11:10 1790 Mar 18 15:11 1790 Mar 18 20:07 1790 Mar 18 20:07 1790 Mar 22 05:16	10° 110'59 9° 110'12 11° 114'45 10° 129'59 13° 140'25 0° © 24° © 36'45 0° Ω 0° № 0° № 0° № 0° № 28'29 0° ¾ 0° ♂ 0° № 2° ¼48'06 10° ¥54'08 0° ♀ 4° ♀20'51 6° ♀25'20 0° ♀12'30 30° № 28° ¥28'54 28° ¥14'04 28° ₩06'19 26° ₩00'48	0°06'51 1.73534 AU 47°10'48 -4.9m 0.28070 AU 8°29'25
retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el desc. node asc. node morning set max. Earth dist. superior conj	1786 Dec 15 00:55 1786 Dec 17 08:34 1786 Dec 29 16:37 1787 Jan 03 22:47 1787 Jan 04 14:25 1787 Jan 04 05:21 1787 Jan 09 18:27 1787 Jan 09 18:27 1787 Jan 24 23:14 1787 Feb 03 08:58 1787 Mar 06 19:15 1787 Mar 15 22:44 1787 Apr 05 07:41 1787 Apr 07 21:58 1787 May 02 03:03 1787 May 27 23:13 1787 Jun 22 07:34 1787 Jul 17 07:23 1787 Jul 17 07:23 1787 Jul 30 01:24 1787 Aug 10 23:19 1787 Sep 04 08:02 1787 Sep 10 19:12 1787 Sep 28 11:05 1787 Oct 18 10:00 1787 Oct 18 10:00 1787 Oct 18 20:07 1787 Oct 22 10:40	22°301'39 21°355'04 17°345'25 14°339'48 14°315'46 14°329'42 11°311'31 6°338'17 8°318'49 0°≈ 8°≈45'03 0°升 2°升49'37 0°Y 0°8 0°11 0°9 15°927'37 0°0 0°10 8°1000'56 0°10 21°1027'06	0.26553 AU 4°31'46 4°29'14 -4.9m 46°34'53 1.71715 AU 1°05'25	minimum elong behind sun begin behind sun end max. Earth dist. asc. node evening rise desc. node evening max el asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	1789 May 31 07:39 1789 May 30 10:54 1789 Jun 01 04:25 1789 May 31 13:51 1789 Jun 03 03:51 1789 Jun 16 10:49 1789 Jul 06 11:35 1789 Jul 10 20:50 1789 Aug 04 06:56 1789 Aug 28 18:07 1789 Sep 22 07:47 1789 Sep 22 17:09 1789 Oct 17 01:26 1789 Nov 11 01:48 1789 Dec 06 16:43 1790 Jan 02 22:42 1790 Jan 05 16:02 1790 Jan 13 20:25 1790 Feb 06 10:56 1790 Feb 15 03:23 1790 Feb 25 13:41 1790 Mar 15 11:10 1790 Mar 15 19:20 1790 Mar 18 05:45 1790 Mar 18 20:07 1790 Mar 22 05:16 1790 Apr 08 13:45	10° II 10'59 9° II 07'12 11° II 14'45 10° II 29'59 13° II 40'25 0° © 24° © 36'45 0° N 0° II 0° II 28'29 0° ✓ 0° II 2° X 48'06 10° X 54'08 0° Y 4° Y 20'51 6° Y 25'20 0° Y 12'30 30° R X 28° X 28'54 28° X 14'04 28° X 06'19 26° X 00'48 20° X 11'53	0°06'51 1.73534 AU 47°10'48 -4.9m 0.28070 AU 8°29'25 8°29'03
retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el desc. node asc. node morning set max. Earth dist. superior conj minimum elong	1786 Dec 15 00:55 1786 Dec 17 08:34 1786 Dec 29 16:37 1787 Jan 03 22:47 1787 Jan 04 14:25 1787 Jan 04 05:21 1787 Jan 09 18:27 1787 Jan 09 18:27 1787 Jan 24 23:14 1787 Feb 03 08:58 1787 Mar 06 19:15 1787 Mar 15 22:44 1787 Apr 05 07:41 1787 Apr 05 07:41 1787 Apr 07 21:58 1787 May 02 03:03 1787 May 27 23:13 1787 Jun 22 07:34 1787 Jul 17 07:23 1787 Jul 30 01:24 1787 Aug 10 23:19 1787 Sep 04 08:02 1787 Sep 10 19:12 1787 Sep 28 11:05 1787 Oct 18 10:00 1787 Oct 18 10:00 1787 Oct 18 20:07 1787 Oct 22 10:40 1787 Nov 15 08:43	22°301'39 21°355'04 17°345'25 14°339'48 14°315'46 14°329'42 11°311'31 6°338'17 8°318'49 0°≈ 8°≈45'03 0°¥ 2°¥49'37 0°Y 0°B 15°\$27'37 0°A 0°M 8°M00'56 0°A 21°\$27'06 24°\$257'16 25°\$28'57	0.26553 AU 4°31'46 4°29'14 -4.9m 46°34'53 1.71715 AU 1°05'25	minimum elong behind sun begin behind sun end max. Earth dist. asc. node evening rise desc. node evening max el asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	1789 May 31 07:39 1789 May 30 10:54 1789 Jun 01 04:25 1789 May 31 13:51 1789 Jun 03 03:51 1789 Jun 16 10:49 1789 Jul 06 11:35 1789 Jul 10 20:50 1789 Aug 04 06:56 1789 Aug 28 18:07 1789 Sep 22 07:47 1789 Sep 22 17:09 1789 Oct 17 01:26 1789 Nov 11 01:48 1789 Dec 06 16:43 1790 Jan 02 22:42 1790 Jan 05 16:02 1790 Jan 13 20:25 1790 Feb 06 10:56 1790 Feb 15 03:23 1790 Feb 25 13:41 1790 Mar 15 11:10 1790 Mar 18 05:45 1790 Mar 18 20:07 1790 Mar 18 20:07 1790 Mar 18 20:07 1790 Mar 22 05:16 1790 Apr 08 13:45 1790 Apr 17 22:23	10° II 10'59 9° II 07'12 11° II 14'45 10° II 29'59 13° II 40'25 0° © 24° © 36'45 0° N 0° II 0° II 28'29 0° ✓ 0° II 2° X 48'06 10° X 54'08 0° Y 4° Y 20'51 6° Y 25'20 0° Y 12'30 30° R X 28° X 28'54 28° X 14'04 28° X 06'19 26° X 00'48 20° X 11'53 21° X 49'13	0°06'51 1.73534 AU 47°10'48 -4.9m 0.28070 AU 8°29'25
retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el desc. node asc. node morning set max. Earth dist. superior conj	1786 Dec 15 00:55 1786 Dec 17 08:34 1786 Dec 29 16:37 1787 Jan 03 22:47 1787 Jan 04 14:25 1787 Jan 04 05:21 1787 Jan 09 18:27 1787 Jan 09 18:27 1787 Jan 24 23:14 1787 Feb 03 08:58 1787 Mar 06 19:15 1787 Mar 15 22:44 1787 Apr 05 07:41 1787 Apr 07 21:58 1787 May 02 03:03 1787 May 27 23:13 1787 Jun 22 07:34 1787 Jul 17 07:23 1787 Jul 17 07:23 1787 Jul 30 01:24 1787 Aug 10 23:19 1787 Sep 04 08:02 1787 Sep 10 19:12 1787 Sep 28 11:05 1787 Oct 18 10:00 1787 Oct 18 10:00 1787 Oct 18 20:07 1787 Oct 22 10:40	22°301'39 21°355'04 17°345'25 14°339'48 14°315'46 14°329'42 11°311'31 6°338'17 8°318'49 0°≈ 8°≈45'03 0°升 2°升49'37 0°Y 0°8 0°11 0°9 15°927'37 0°0 0°10 8°1000'56 0°10 21°1027'06	0.26553 AU 4°31'46 4°29'14 -4.9m 46°34'53 1.71715 AU 1°05'25	minimum elong behind sun begin behind sun end max. Earth dist. asc. node evening rise desc. node evening max el asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	1789 May 31 07:39 1789 May 30 10:54 1789 Jun 01 04:25 1789 May 31 13:51 1789 Jun 03 03:51 1789 Jun 16 10:49 1789 Jul 06 11:35 1789 Jul 10 20:50 1789 Aug 04 06:56 1789 Aug 28 18:07 1789 Sep 22 07:47 1789 Sep 22 17:09 1789 Oct 17 01:26 1789 Nov 11 01:48 1789 Dec 06 16:43 1790 Jan 02 22:42 1790 Jan 05 16:02 1790 Jan 13 20:25 1790 Feb 06 10:56 1790 Feb 15 03:23 1790 Feb 25 13:41 1790 Mar 15 11:10 1790 Mar 15 19:20 1790 Mar 18 05:45 1790 Mar 18 20:07 1790 Mar 22 05:16 1790 Apr 08 13:45	10° II 10'59 9° II 07'12 11° II 14'45 10° II 29'59 13° II 40'25 0° © 24° © 36'45 0° N 0° II 0° II 28'29 0° ✓ 0° II 2° X 48'06 10° X 54'08 0° Y 4° Y 20'51 6° Y 25'20 0° Y 12'30 30° R X 28° X 28'54 28° X 14'04 28° X 06'19 26° X 00'48 20° X 11'53	0°06'51 1.73534 AU 47°10'48 -4.9m 0.28070 AU 8°29'25 8°29'03

morning max el	1790 May 27 16:14	20° Ƴ 35'25	45°53'13		1792 Nov 23 15:55	8°0	
morning max ci	1790 Jun 06 04:26	0° 8	43 33 13		1792 Nov 23 13:33 1792 Dec 17 23:14	0° ≈	
	1790 Jul 04 05:28	0°II			1792 Dec 17 23:11 1793 Jan 11 13:23	0° ∀	
	1790 Jul 30 13:41	0°©			1793 Feb 05 19:12	0°Υ	
	1790 Aug 24 23:31	$0^{\circ}\Omega$		asc. node	1793 Feb 10 08:14	5° Υ 15'42	
asc. node	1790 Aug 26 13:14	1° Ω 53'00			1793 Mar 04 12:28	0°8	
	1790 Sep 18 17:46	0° m)		evening max el	1793 Mar 18 04:05	14° 8 05'34	46°07'02
	1790 Oct 13 01:04	0∘ ⊽		C	1793 Apr 04 16:26	$\Pi^{\circ}0$	
	1790 Nov 06 01:36	0° M		greatest brilliancy	1793 Apr 25 14:36	13° Ⅲ 03′24	-4.8m
greatest brilliancy	1790 Nov 19 03:44	16°M25'48	-3.9m	retrograde	1793 May 06 13:13	15° Ⅲ 13'58	
morning set	1790 Nov 21 22:28	19° M 55'27		evening set	1793 May 21 18:44	10° Ⅱ 43'30	
	1790 Nov 29 22:47	0° ∡ 7		inferior conj	1793 May 27 23:14	6° Ⅱ 58'56	1°09'51
desc. node	1790 Dec 16 02:40	20° х 20′26		minimum elong	1793 May 28 01:46	6° Ⅱ 54'55	1°09'06
	1790 Dec 23 18:52	5°0		min. Earth dist.	1793 May 27 23:02	6° Ⅱ 59'14	0.28853 AU
				desc. node	1793 Jun 01 21:33	3° Ⅱ 57'40	
superior conj	1791 Jan 02 04:38	11° る 50'18	-0°39'24	morning rise	1793 Jun 03 09:06	3° Ⅱ 07'32	
minimum elong	1791 Jan 01 18:59	11° る 19'53	0°38'59		1793 Jun 10 11:38	30°₽ ႘	
max. Earth dist.	1791 Jan 03 17:42	13° る 46'52	1.71097 AU	direct	1793 Jun 18 12:53	28° 8 43'29	
	1791 Jan 16 15:14	0° ≈			1793 Jun 26 21:30	Π $^{\circ}0$	
	1791 Feb 09 13:08	0°) €		greatest brilliancy	1793 Jun 28 17:14	0°∏35′21	-4.7m
evening rise	1791 Feb 12 12:18	3°) 42′39		morning max el	1793 Aug 06 06:38	28° Ⅱ 26'49	45°46'49
	1791 Mar 05 14:12	0° Y			1793 Aug 07 21:24	0	
	1791 Mar 29 20:20	9° 8			1793 Sep 05 14:08	$0 {\circ} \Omega$	
asc. node	1791 Apr 08 06:11	11° 8 32'59		asc. node	1793 Sep 23 01:15	19° Ω 47'24	
	1791 Apr 23 09:31	Π °0			1793 Oct 01 19:11	0°Щ	
	1791 May 18 08:07	0₀ ©			1793 Oct 26 19:51	0∘ ত	
	1791 Jun 12 20:14	0 ° Ω			1793 Nov 20 05:13	0°M₊	
	1791 Jul 09 07:17	0° m			1793 Dec 14 06:56	0° ∡	
desc. node	1791 Jul 28 19:16	20° m 52'52			1794 Jan 07 05:39	0° ろ	
	1791 Aug 06 19:58	0∘ ⊽		desc. node	1794 Jan 12 14:27	6° る 43'45	
evening max el	1791 Aug 10 20:00	3° Ω 53'14	45°53'12		1794 Jan 31 03:55	0° ≈	
	1791 Sep 13 15:27	0°M	4.0	morning set	1794 Feb 07 00:01	8°≈34'01	
greatest brilliancy	1791 Sep 19 18:40	2°M29'51	-4.8m		1794 Feb 24 03:11	0°) €	
retrograde	1791 Sep 28 21:33	4°M00'38			1704 M 10 10-11	200 1 02140	1922111
	1791 Oct 13 06:36	30°R <u>Ω</u>		superior conj	1794 Mar 19 10:11	29°) € 02'48	
evening set inferior conj	1791 Oct 15 10:03 1791 Oct 19 16:52	28° £ 49'13 26° £ 15'34	6045120	minimum elong	1794 Mar 19 15:34 1794 Mar 20 04:35	29°) 19'32 0° ⋎	1 23 08
minimum elong	1791 Oct 19 10:32 1791 Oct 20 03:19	26 ⊆ 13 34 25° ⊆ 59'36		max. Earth dist.	1794 Mar 23 13:03		1.72293 AU
min. Earth dist.	1791 Oct 20 03:19 1791 Oct 20 14:22		0.27297 AU	max. Earm dist.	1794 Nrai 23 13:03 1794 Apr 13 09:06	0°8	1.72293 AU
morning rise	1791 Oct 20 14.22 1791 Oct 24 20:10	23° £ 12'22	0.27297 AU	evening rise	1794 Apr 13 09:00 1794 Apr 27 07:09	17° 8 10'37	
direct	1791 Nov 09 14:34	18° Ω 22'17		asc. node	1794 May 05 18:03	27° 8 34'50	
asc. node	1791 Nov 18 22:41	20° ⊆ 02'29		use. Houe	1777 Widy 05 10.05	27 03430	
greatest brilliancy					1794 May 07 17:18	о∘π	
greatest offinalley			-4 9m		1794 May 07 17:18	0°™ 10°0	
	1791 Nov 20 15:28	20° ≏ 40′21	-4.9m		1794 Jun 01 05:19	0ಂತಾ	
morning max el	1791 Nov 20 15:28 1791 Dec 06 07:29	20° £ 40′21 0° M			1794 Jun 01 05:19 1794 Jun 25 21:31	0 ം ${\cal U}$	
morning max el	1791 Nov 20 15:28 1791 Dec 06 07:29 1791 Dec 30 09:51	20° Ω 40'21 0° M 21° M 53'54	-4.9m 46°56'55		1794 Jun 01 05:19 1794 Jun 25 21:31 1794 Jul 20 19:16	0° ™ 0° © 0°©	
morning max el	1791 Nov 20 15:28 1791 Dec 06 07:29 1791 Dec 30 09:51 1792 Jan 07 04:13	20° £ 40'21 0° M 21° M 53'54 0° ⊀		desc. node	1794 Jun 01 05:19 1794 Jun 25 21:31 1794 Jul 20 19:16 1794 Aug 15 01:34	0. ට 0. ඪ 0. ී 0.ව	
morning max el	1791 Nov 20 15:28 1791 Dec 06 07:29 1791 Dec 30 09:51	20° Ω 40'21 0° M 21° M 53'54		desc. node	1794 Jun 01 05:19 1794 Jun 25 21:31 1794 Jul 20 19:16	0° ™ 0° © 0°©	
morning max el	1791 Nov 20 15:28 1791 Dec 06 07:29 1791 Dec 30 09:51 1792 Jan 07 04:13 1792 Feb 03 01:00	20°≗40'21 0°ጤ 21°ጤ53'54 0°Ґ 0°්		desc. node	1794 Jun 01 05:19 1794 Jun 25 21:31 1794 Jul 20 19:16 1794 Aug 15 01:34 1794 Aug 25 07:11	0°ട 0° റ 0° സ 0° ഫ 11° ഫ 58'46	
-	1791 Nov 20 15:28 1791 Dec 06 07:29 1791 Dec 30 09:51 1792 Jan 07 04:13 1792 Feb 03 01:00 1792 Feb 28 13:51	20° £ 40'21 0° M 21° M 53'54 0° ♂ 0° ♂		desc. node	1794 Jun 01 05:19 1794 Jun 25 21:31 1794 Jul 20 19:16 1794 Aug 15 01:34 1794 Aug 25 07:11 1794 Sep 09 21:59	0°፡፡ 0°፡ ቤ 0°፡ ኬ 0°፡ 亞 11° 亞 58'46 0° ጤ	47°01'14
-	1791 Nov 20 15:28 1791 Dec 06 07:29 1791 Dec 30 09:51 1792 Jan 07 04:13 1792 Feb 03 01:00 1792 Feb 28 13:51 1792 Mar 09 12:11	20° \$\times 40'21 \\ 0° \$\mathbb{M}\$. \\ 21° \$\mathbb{M}\$.53'54 \\ 0° \$\mathscr{A}\$ \\ 0° \$\mathscr{A}\$ \\ 0° \$\mathscr{A}\$ \\ 11° \$\approx 51'27			1794 Jun 01 05:19 1794 Jun 25 21:31 1794 Jul 20 19:16 1794 Aug 15 01:34 1794 Aug 25 07:11 1794 Sep 09 21:59 1794 Oct 06 21:30	0°କ 0°ନ 0°ନ 0°ନ 11°ନ 58'46 0°ଲ 0° %	47°01'14
-	1791 Nov 20 15:28 1791 Dec 06 07:29 1791 Dec 30 09:51 1792 Jan 07 04:13 1792 Feb 03 01:00 1792 Feb 28 13:51 1792 Mar 09 12:11 1792 Mar 24 14:20	20° \$\times 40'21\$ 0° \$\tilde{M}\$.53'54\$ 0° \$\tilde{\tilde{\tilde{N}}}\$ 0° \$\tilde{\tilde{\tilde{N}}}\$ 0° \$\tilde{\tilde{\tilde{N}}}\$ 11° \$\approx 51'27\$ 0° \$\tilde{\tilde{\tilde{N}}}\$			1794 Jun 01 05:19 1794 Jun 25 21:31 1794 Jul 20 19:16 1794 Aug 15 01:34 1794 Aug 25 07:11 1794 Sep 09 21:59 1794 Oct 06 21:30 1794 Oct 23 01:37	0°\$ 0°\$ 0°\$ 0°\$ 11°\$ 58'46 0°\$ 16°\$ ⁴ 7'08	47°01'14 -4.9m
-	1791 Nov 20 15:28 1791 Dec 06 07:29 1791 Dec 30 09:51 1792 Jan 07 04:13 1792 Feb 03 01:00 1792 Feb 28 13:51 1792 Mar 09 12:11 1792 Mar 24 14:20 1792 Apr 18 09:33	20° \$\times 40'21\$ 0° \$\tilde{M}\$.53'54\$ 0° \$\tilde{\sigma}\$ 0° \$\tilde{\sigma}\$ 0° \$\tilde{\sigma}\$ 11° \$\infty 51'27\$ 0° \$\tilde{\sigma}\$ 0° \$\tilde{\gamma}\$		evening max el	1794 Jun 01 05:19 1794 Jun 25 21:31 1794 Jul 20 19:16 1794 Aug 15 01:34 1794 Aug 25 07:11 1794 Sep 09 21:59 1794 Oct 06 21:30 1794 Oct 23 01:37 1794 Nov 06 02:04	0°의 0°ብ 0°順 0°亞 11°요58'46 0°째 0°3 16°3 47'08 0°중	
-	1791 Nov 20 15:28 1791 Dec 06 07:29 1791 Dec 30 09:51 1792 Jan 07 04:13 1792 Feb 03 01:00 1792 Feb 28 13:51 1792 Mar 09 12:11 1792 Mar 24 14:20 1792 Apr 18 09:33 1792 May 13 02:26	20° \$\times 40'21\$ 0° \$\mathbb{M}\$. 21° \$\mathbb{M}\$.53'54\$ 0° \$\mathbb{S}\$ 0° \$\mathbb{S}\$ 0° \$\mathbb{S}\$ 11° \$\mathbb{S}\$.51'27\$ 0° \$\mathbb{H}\$ 0° \$\mathbb{Y}\$ 0° \$\mathbb{S}\$		evening max el	1794 Jun 01 05:19 1794 Jun 25 21:31 1794 Jul 20 19:16 1794 Aug 15 01:34 1794 Aug 25 07:11 1794 Sep 09 21:59 1794 Oct 06 21:30 1794 Oct 23 01:37 1794 Nov 06 02:04 1794 Dec 02 14:26	0°ର 0°ନ 0°ନ 0°ନ 11°으 58'46 0°ନ 16° \$^47'08 0°ର 17° \$39'15	
desc. node	1791 Nov 20 15:28 1791 Dec 06 07:29 1791 Dec 30 09:51 1792 Jan 07 04:13 1792 Feb 03 01:00 1792 Feb 28 13:51 1792 Mar 09 12:11 1792 Mar 24 14:20 1792 Apr 18 09:33 1792 May 13 02:26 1792 Jun 06 17:44	20°至40'21 0°M 21°M.53'54 0°ズ 0°중 0°≈ 11°≈51'27 0°升 0°Υ 0°Υ 0°Β		evening max el greatest brilliancy retrograde	1794 Jun 01 05:19 1794 Jun 25 21:31 1794 Jul 20 19:16 1794 Aug 15 01:34 1794 Aug 25 07:11 1794 Sep 09 21:59 1794 Oct 06 21:30 1794 Oct 23 01:37 1794 Nov 06 02:04 1794 Dec 02 14:26 1794 Dec 12 13:03	0°© 0°R 0°P 0°A 11°요58'46 0°M 0°\$ 16°\$^47'08 0°\$ 17°\$39'15 19°\$32'04	
desc. node	1791 Nov 20 15:28 1791 Dec 06 07:29 1791 Dec 30 09:51 1792 Jan 07 04:13 1792 Feb 03 01:00 1792 Feb 28 13:51 1792 Mar 09 12:11 1792 Mar 24 14:20 1792 Apr 18 09:33 1792 May 13 02:26 1792 Jun 06 17:44 1792 Jun 30 15:35	20°至40'21 0°M 21°M53'54 0°ズ 0°云 0°云 0°云 0°云 0°云 0°∀ 0°Y 0°U 29°I13'16 29°I56'33 0°亞		evening max el greatest brilliancy retrograde asc. node	1794 Jun 01 05:19 1794 Jun 25 21:31 1794 Jul 20 19:16 1794 Aug 15 01:34 1794 Aug 25 07:11 1794 Sep 09 21:59 1794 Oct 06 21:30 1794 Oct 23 01:37 1794 Nov 06 02:04 1794 Dec 02 14:26 1794 Dec 12 13:03 1794 Dec 16 10:35	0°ର 0°ନ୍ନ 0°ନ୍ନ 11° 2 58'46 0°ଲ 0° % 16° % 47'08 0° ठ 17° ठ 39'15 19° ठ 32'04 19° ठ 13'22	
desc. node	1791 Nov 20 15:28 1791 Dec 06 07:29 1791 Dec 30 09:51 1792 Jan 07 04:13 1792 Feb 03 01:00 1792 Feb 28 13:51 1792 Mar 09 12:11 1792 Mar 24 14:20 1792 Apr 18 09:33 1792 May 13 02:26 1792 Jun 06 17:44 1792 Jun 30 15:35 1792 Jul 01 05:43	20° 至40'21 0° M 21° M 53'54 0° ズ 0° 云 0° 云 0° 云 0° ❤ 11° ≈51'27 0° 丫 0° 丫 0° 丫 0° Ц 29° II 13'16 29° II 56'33		evening max el greatest brilliancy retrograde asc. node evening set	1794 Jun 01 05:19 1794 Jun 25 21:31 1794 Jul 20 19:16 1794 Aug 15 01:34 1794 Aug 25 07:11 1794 Sep 09 21:59 1794 Oct 06 21:30 1794 Oct 23 01:37 1794 Nov 06 02:04 1794 Dec 02 14:26 1794 Dec 12 13:03 1794 Dec 16 10:35 1794 Dec 27 03:05	0°のののである。 0°のである。 11°至58'46 0°である。 16°×447'08 0°である。 17°でする。 17°でする。 19°でする。 19°でする。 12°でする。 12°でする。 11°でする。 11°°でする。 11°°°でする。 11°°°でする。 11°°°でする。 11°°°でする。 11°°°でする。 11°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	-4.9m
desc. node	1791 Nov 20 15:28 1791 Dec 06 07:29 1791 Dec 30 09:51 1792 Jan 07 04:13 1792 Feb 03 01:00 1792 Feb 28 13:51 1792 Mar 09 12:11 1792 Mar 24 14:20 1792 Apr 18 09:33 1792 May 13 02:26 1792 Jun 06 17:44 1792 Jun 30 15:35 1792 Jul 01 05:43 1792 Jul 01 06:51	20°至40'21 0°M 21°M53'54 0°ズ 0°云 0°云 0°云 0°云 0°云 0°ዣ 0°ዣ 0°ዣ 0°Ⅱ 29°Ⅱ13'16 29°Ⅱ56'33 0°孁		evening max el greatest brilliancy retrograde asc. node evening set min. Earth dist.	1794 Jun 01 05:19 1794 Jun 25 21:31 1794 Jul 20 19:16 1794 Aug 15 01:34 1794 Aug 25 07:11 1794 Sep 09 21:59 1794 Oct 06 21:30 1794 Oct 23 01:37 1794 Nov 06 02:04 1794 Dec 02 14:26 1794 Dec 12 13:03 1794 Dec 16 10:35 1794 Dec 27 03:05 1795 Jan 01 12:45	0°% 0°れ 0°か 0°ふ 11°至58'46 0°肌 0°¾ 16°¾47'08 0°♂ 17°♂39'15 19°♂32'04 19°♂313'22 15°♂18'53 12°♂08'51 11°♂47'12 12°♂00'21	-4.9m 0.26520 AU
desc. node asc. node morning set	1791 Nov 20 15:28 1791 Dec 06 07:29 1791 Dec 30 09:51 1792 Jan 07 04:13 1792 Feb 03 01:00 1792 Feb 28 13:51 1792 Mar 09 12:11 1792 Mar 24 14:20 1792 Apr 18 09:33 1792 May 13 02:26 1792 Jun 06 17:44 1792 Jun 30 15:35 1792 Jul 01 05:43 1792 Jul 01 06:51 1792 Jul 25 16:55	20° \$\textit{\Omega}\$40'21 0° \$\textit{\mathbb{m}}\$ 21° \$\textit{\mathbb{m}}\$53'54 0° \$\textit{\sigma}\$ 10° \$\textit{\Sigma}\$ 58'37	46°56'55 1.73172 AU	evening max el greatest brilliancy retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise	1794 Jun 01 05:19 1794 Jun 25 21:31 1794 Jul 20 19:16 1794 Aug 15 01:34 1794 Aug 25 07:11 1794 Sep 09 21:59 1794 Oct 06 21:30 1794 Oct 23 01:37 1794 Nov 06 02:04 1794 Dec 02 14:26 1794 Dec 12 13:03 1794 Dec 16 10:35 1794 Dec 27 03:05 1795 Jan 01 12:45 1795 Jan 02 02:52 1795 Jan 01 18:18 1795 Jan 07 09:44	0°% 0°% 0°% 11° 年58'46 0°M 0°% 16°% 47'08 0°♂ 17°♂39'15 19°♂32'04 19°♂13'22 15°♂18'53 12°♂08'51 11°♂47'12 12°♂00'21 8°♂39'05	-4.9m 0.26520 AU 4°10'30
desc. node asc. node morning set max. Earth dist. superior conj	1791 Nov 20 15:28 1791 Dec 06 07:29 1791 Dec 30 09:51 1792 Jan 07 04:13 1792 Feb 03 01:00 1792 Feb 28 13:51 1792 Mar 09 12:11 1792 Mar 24 14:20 1792 Apr 18 09:33 1792 May 13 02:26 1792 Jun 06 17:44 1792 Jun 30 15:35 1792 Jul 01 05:43 1792 Jul 01 06:51 1792 Jul 05:55 1792 Aug 03 14:33	20° \(\Omega 40'21 \) 0° \(\mathbb{M} \) 21° \(\mathbb{M} 53'54 \) 0° \(\mathbb{N} \) 0° \(\mathbb{S} \) 0° \(\mathbb{N} \) 0° \(\mathbb{M} \) 0° \(\mathbb{M} \) 0° \(\mathbb{M} \) 29° \(\mathbb{M} 13'16 \) 29° \(\mathbb{M} 56'33 \) 0° \(\omega \) 10° \(\Omega 58'37 \) 14° \(\alpha 40'21 \)	46°56'55 1.73172 AU 1°13'02	evening max el greatest brilliancy retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	1794 Jun 01 05:19 1794 Jun 25 21:31 1794 Jul 20 19:16 1794 Aug 15 01:34 1794 Aug 25 07:11 1794 Sep 09 21:59 1794 Oct 06 21:30 1794 Oct 23 01:37 1794 Nov 06 02:04 1794 Dec 02 14:26 1794 Dec 12 13:03 1794 Dec 16 10:35 1794 Dec 27 03:05 1795 Jan 01 12:45 1795 Jan 02 02:52 1795 Jan 01 18:18 1795 Jan 07 09:44 1795 Jan 07 09:44	0°% 0°ル 0°№ 11° \$258'46 0°ル 0° \$7 16° \$747'08 0°5 17° \$39'15 19° \$32'04 19° \$13'22 15° \$18'53 12° \$08'51 11° \$47'12 12° \$00'21 8° \$39'05 4° \$09'50	-4.9m 0.26520 AU 4°10'30 4°08'02
desc. node asc. node morning set max. Earth dist.	1791 Nov 20 15:28 1791 Dec 06 07:29 1791 Dec 30 09:51 1792 Jan 07 04:13 1792 Feb 03 01:00 1792 Feb 28 13:51 1792 Mar 09 12:11 1792 Mar 24 14:20 1792 Apr 18 09:33 1792 May 13 02:26 1792 Jun 06 17:44 1792 Jun 30 15:35 1792 Jul 01 05:43 1792 Jul 01 06:51 1792 Jul 05:55 1792 Jul 03 14:33 1792 Aug 06 14:23 1792 Aug 06 06:36	20°至40'21 0°肌 21°肌53'54 0°ズ 0°云 0°云 0°云 0°云 0°云 0°公 11°≈51'27 0°H 0°H 29°用13'16 29°用56'33 0°亞 0°ん 10°ん58'37	46°56'55 1.73172 AU 1°13'02	evening max el greatest brilliancy retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise	1794 Jun 01 05:19 1794 Jun 25 21:31 1794 Jul 20 19:16 1794 Aug 15 01:34 1794 Aug 25 07:11 1794 Sep 09 21:59 1794 Oct 06 21:30 1794 Oct 23 01:37 1794 Nov 06 02:04 1794 Dec 02 14:26 1794 Dec 12 13:03 1794 Dec 16 10:35 1794 Dec 27 03:05 1795 Jan 01 12:45 1795 Jan 02 02:52 1795 Jan 01 18:18 1795 Jan 07 09:44 1795 Jan 07 09:44 1795 Jan 22 10:49 1795 Jan 31 23:18	0°% 0°% 0°% 11° \$\oldsymbol{\text{0}}\$58'46 0°M 0°\$\oldsymbol{\text{0}}\$16°\$\oldsymbol{\text{4}}\$47'08 0°\$\oldsymbol{\text{0}}\$17°\$\oldsymbol{\text{3}}\$39'05 17°\$\oldsymbol{\text{3}}\$12°\$\oldsymbol{\text{0}}\$08'51 11°\$\oldsymbol{\text{4}}\$7'12 12°\$\oldsymbol{\text{0}}\$09'50 5°\$\oldsymbol{\text{5}}\$2'33	-4.9m 0.26520 AU 4°10'30
asc. node asc. node morning set max. Earth dist. superior conj minimum elong	1791 Nov 20 15:28 1791 Dec 06 07:29 1791 Dec 30 09:51 1792 Jan 07 04:13 1792 Feb 03 01:00 1792 Feb 28 13:51 1792 Mar 09 12:11 1792 Mar 24 14:20 1792 Apr 18 09:33 1792 May 13 02:26 1792 Jun 06 17:44 1792 Jun 30 15:35 1792 Jul 01 05:43 1792 Jul 01 06:51 1792 Jul 25 16:55 1792 Aug 03 14:33 1792 Aug 06 14:23 1792 Aug 06 06:36 1792 Aug 18 23:46	20°至40'21 0°肌 21°肌53'54 0°ズ 0°云 0°云 0°云 0°云 0°公 11°≈51'27 0°光 0°円 29°用13'16 29°用56'33 0°亞 0°ん 10°ん58'37 14°ん40'21 14°ん16'19 0°肌	46°56'55 1.73172 AU 1°13'02	evening max el greatest brilliancy retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	1794 Jun 01 05:19 1794 Jun 25 21:31 1794 Jul 20 19:16 1794 Aug 15 01:34 1794 Aug 25 07:11 1794 Sep 09 21:59 1794 Oct 06 21:30 1794 Oct 23 01:37 1794 Nov 06 02:04 1794 Dec 02 14:26 1794 Dec 12 13:03 1794 Dec 16 10:35 1794 Dec 27 03:05 1795 Jan 01 12:45 1795 Jan 02 02:52 1795 Jan 01 18:18 1795 Jan 07 09:44 1795 Jan 07 09:44 1795 Jan 22 10:49 1795 Jan 31 23:18 1795 Mar 06 22:34	0°% 0°% 0°% 0°% 11° \$\text{\tert{\text{\te\texit{\text{\text{\text{\text{\text{\texi{\text{\text{\text{\tex	-4.9m 0.26520 AU 4°10'30 4°08'02 -4.9m
desc. node asc. node morning set max. Earth dist. superior conj	1791 Nov 20 15:28 1791 Dec 06 07:29 1791 Dec 30 09:51 1792 Jan 07 04:13 1792 Feb 03 01:00 1792 Feb 28 13:51 1792 Mar 09 12:11 1792 Mar 24 14:20 1792 Apr 18 09:33 1792 May 13 02:26 1792 Jun 06 17:44 1792 Jun 30 15:35 1792 Jul 01 05:43 1792 Jul 01 06:51 1792 Jul 01 06:51 1792 Jul 25 16:55 1792 Aug 06 14:23 1792 Aug 06 14:23 1792 Aug 06 06:36 1792 Aug 18 23:46 1792 Sep 11 23:19	20° \$\times 40'21 \\ 0° \$\mathbb{M}\$. \\ 21° \$\mathbb{M}.53'54 \\ 0° \$\times 7 \\ 0° \$\times 51'27 \\ 0° \$\times 6'31 \\ 29° \$\mathbb{M}.13'16 \\ 29° \$\mathbb{M}.56'33 \\ 0° \$\times 0° \$\mathbb{M}\$. \\ 10° \$\mathbb{M}.58'37 \\ 14° \$\mathbb{M}.40'21 \\ 14° \$\mathbb{M}.16'19 \\ 0° \$\mathbb{M}\$. \\ 29° \$\mathbb{M}.44'40 \\ 29° \$\mathbb{M}.44'40 \\ 0° \$\mathbb{M}\$. \\ 0°	46°56'55 1.73172 AU 1°13'02	evening max el greatest brilliancy retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	1794 Jun 01 05:19 1794 Jun 25 21:31 1794 Jul 20 19:16 1794 Aug 15 01:34 1794 Aug 25 07:11 1794 Sep 09 21:59 1794 Oct 06 21:30 1794 Oct 23 01:37 1794 Nov 06 02:04 1794 Dec 02 14:26 1794 Dec 12 13:03 1794 Dec 16 10:35 1794 Dec 27 03:05 1795 Jan 01 12:45 1795 Jan 02 02:52 1795 Jan 01 18:18 1795 Jan 02 02:44 1795 Jan 22 10:49 1795 Jan 31 23:18 1795 Mar 06 22:34 1795 Mar 13 11:23	0°% 0°% 0°% 0°% 11° \$\textit{\$\alpha\$} 58'46 0° \$\mathbb{n}\$ 0°\$\textit{\$\alpha\$} 16'\$\textit{\$\alpha\$} 47'08 0°\$\textit{\$\alpha\$} 13'22 15°\$\textit{\$\alpha\$} 13'22 15°\$\textit{\$\alpha\$} 13'22 15°\$\textit{\$\alpha\$} 18'53 12°\$\textit{\$\alpha\$} 18'53 12°\$\textit{\$\alpha\$} 18'53 12°\$\textit{\$\alpha\$} 39'05 4°\$\textit{\$\alpha\$} 39'05 5°\$\textit{\$\alpha\$} 52'33 0°\$\alpha\$ 6°\$\alpha\$ 19'33	-4.9m 0.26520 AU 4°10'30 4°08'02
asc. node asc. node morning set max. Earth dist. superior conj minimum elong	1791 Nov 20 15:28 1791 Dec 06 07:29 1791 Dec 30 09:51 1792 Jan 07 04:13 1792 Feb 03 01:00 1792 Feb 28 13:51 1792 Mar 09 12:11 1792 Mar 24 14:20 1792 Apr 18 09:33 1792 May 13 02:26 1792 Jun 06 17:44 1792 Jun 30 15:35 1792 Jul 01 05:43 1792 Jul 01 06:51 1792 Jul 01 06:51 1792 Jul 25 16:55 1792 Aug 03 14:33 1792 Aug 06 14:23 1792 Aug 06 06:36 1792 Aug 18 23:46 1792 Sep 11 23:19 1792 Sep 12 04:16	20° \$\times 40'21 0° \$\times 53'54 0° \$\times 7 0° \$\times 51'27 0° \$\times 51'27 0° \$\times 0° \$\times 12'27 0° \$\times 0° \$\times 12'27 0° \$\times 0° \$\times 12'27 16' \$\t	46°56'55 1.73172 AU 1°13'02	evening max el greatest brilliancy retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el	1794 Jun 01 05:19 1794 Jun 25 21:31 1794 Jul 20 19:16 1794 Aug 15 01:34 1794 Aug 25 07:11 1794 Sep 09 21:59 1794 Oct 06 21:30 1794 Oct 23 01:37 1794 Nov 06 02:04 1794 Dec 02 14:26 1794 Dec 12 13:03 1794 Dec 12 13:03 1794 Dec 16 10:35 1794 Dec 27 03:05 1795 Jan 01 12:45 1795 Jan 02 02:52 1795 Jan 01 18:18 1795 Jan 07 09:44 1795 Jan 22 10:49 1795 Jan 31 23:18 1795 Mar 06 22:34 1795 Mar 13 11:23 1795 Apr 05 01:12	0°% 0°% 0°% 0°% 11°£58'46 0°™ 0°¾ 16°¾47'08 0°♂ 17°♂39'15 19°♂32'04 19°♂13'22 15°♂18'53 12°♂08'51 11°♂47'12 12°♂00'21 8°♂39'05 4°♂09'50 5°♂52'33 0°≈ 6°≈19'33 0°¥	-4.9m 0.26520 AU 4°10'30 4°08'02 -4.9m
desc. node asc. node morning set max. Earth dist. superior conj minimum elong evening rise	1791 Nov 20 15:28 1791 Dec 06 07:29 1791 Dec 30 09:51 1792 Jan 07 04:13 1792 Feb 03 01:00 1792 Feb 28 13:51 1792 Mar 09 12:11 1792 Mar 24 14:20 1792 Apr 18 09:33 1792 May 13 02:26 1792 Jun 06 17:44 1792 Jun 30 15:35 1792 Jul 01 05:43 1792 Jul 01 06:51 1792 Jul 25 16:55 1792 Aug 03 14:33 1792 Aug 06 14:23 1792 Aug 06 06:36 1792 Aug 18 23:46 1792 Sep 11 23:19 1792 Sep 12 04:16 1792 Oct 06 07:44	20° \$\times 40'21 0° \$\times 6'\$\times 53'54 0° \$\times 7' 0° \$\times 51'27 0° \$\times 6'\$\times 6'\$\time	46°56'55 1.73172 AU 1°13'02	evening max el greatest brilliancy retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	1794 Jun 01 05:19 1794 Jun 25 21:31 1794 Jul 20 19:16 1794 Aug 15 01:34 1794 Aug 25 07:11 1794 Sep 09 21:59 1794 Oct 06 21:30 1794 Oct 23 01:37 1794 Nov 06 02:04 1794 Dec 02 14:26 1794 Dec 12 13:03 1794 Dec 12 13:03 1794 Dec 16 10:35 1794 Dec 27 03:05 1795 Jan 01 12:45 1795 Jan 02 02:52 1795 Jan 01 18:18 1795 Jan 07 09:44 1795 Jan 22 10:49 1795 Jan 31 23:18 1795 Mar 06 22:34 1795 Mar 13 11:23 1795 Apr 05 01:12 1795 Apr 07 00:09	0°% 0°% 0°% 0°% 11°\$\textit{\$\Omega}\$58'46 0°M 0°\$\textit{\$\Z\$}\$47'08 0°\$\textit{\$\Omega}\$13'22 15°\$\textit{\$\Omega}\$18'53 12°\$\textit{\$\Omega}\$08'51 11°\$\textit{\$\Omega}\$47'12 12°\$\textit{\$\Omega}\$00'21 8°\$\textit{\$\Omega}\$9'05 4°\$\textit{\$\Omega}\$09'50 5°\$\textit{\$\S}\$2'33 0°\$\textit{\$\Omega}\$6°\$\textit{\$\S}\$19'33 0°\$\textit{\$\Omega}\$2"\$\textit{\$\Omega}\$36'	-4.9m 0.26520 AU 4°10'30 4°08'02 -4.9m
asc. node asc. node morning set max. Earth dist. superior conj minimum elong	1791 Nov 20 15:28 1791 Dec 06 07:29 1791 Dec 30 09:51 1792 Jan 07 04:13 1792 Feb 03 01:00 1792 Feb 28 13:51 1792 Mar 09 12:11 1792 Mar 24 14:20 1792 Apr 18 09:33 1792 May 13 02:26 1792 Jun 06 17:44 1792 Jun 30 15:35 1792 Jul 01 05:43 1792 Jul 01 06:51 1792 Jul 01 06:51 1792 Jul 25 16:55 1792 Aug 03 14:33 1792 Aug 06 14:23 1792 Aug 06 06:36 1792 Aug 18 23:46 1792 Sep 11 23:19 1792 Sep 12 04:16	20° \$\times 40'21 0° \$\times 53'54 0° \$\times 7 0° \$\times 51'27 0° \$\times 51'27 0° \$\times 0° \$\times 12'27 0° \$\times 0° \$\times 12'27 0° \$\times 0° \$\times 12'27 16' \$\t	46°56'55 1.73172 AU 1°13'02	evening max el greatest brilliancy retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el	1794 Jun 01 05:19 1794 Jun 25 21:31 1794 Jul 20 19:16 1794 Aug 15 01:34 1794 Aug 25 07:11 1794 Sep 09 21:59 1794 Oct 06 21:30 1794 Oct 23 01:37 1794 Nov 06 02:04 1794 Dec 02 14:26 1794 Dec 12 13:03 1794 Dec 12 13:03 1794 Dec 16 10:35 1794 Dec 27 03:05 1795 Jan 01 12:45 1795 Jan 02 02:52 1795 Jan 01 18:18 1795 Jan 07 09:44 1795 Jan 22 10:49 1795 Jan 31 23:18 1795 Mar 06 22:34 1795 Mar 13 11:23 1795 Apr 05 01:12	0°% 0°% 0°% 0°% 11°£58'46 0°™ 0°¾ 16°¾47'08 0°♂ 17°♂39'15 19°♂32'04 19°♂13'22 15°♂18'53 12°♂08'51 11°♂47'12 12°♂00'21 8°♂39'05 4°♂09'50 5°♂52'33 0°≈ 6°≈19'33 0°¥	-4.9m 0.26520 AU 4°10'30 4°08'02 -4.9m

	1795 Jun 21 19:34	0°Щ		evening max el	1798 Jan 03 07:50	0°) 29′07	47°12'10
	1795 Jul 16 18:53	0		asc. node	1798 Jan 12 22:29	9° ¥ 56′26	
asc. node	1795 Jul 29 03:28	14° © 59'29			1798 Feb 08 05:49	0° Υ	
	1795 Aug 10 10:32	0 \circ Ω		greatest brilliancy	1798 Feb 12 18:14	2° Y ′00'52	-4.9m
	1795 Sep 03 19:06	0° m)		retrograde	1798 Feb 23 05:33	4° Υ ′06'00	
morning set	1795 Sep 08 11:24	5° m 47'59			1798 Mar 09 10:44	30° ₹	
T	1795 Sep 27 22:07	0∘ ʊ	1 5154 177	evening set	1798 Mar 13 03:33	27°) €51'07	0024145
max. Earth dist.	1795 Oct 13 05:08	19° ≏ 06'46	1.71764 AU	inferior conj	1798 Mar 16 06:00	25°) 55'07 25°) 48'31	8°34'47
	1795 Oct 15 23:54	22° £ 35'46	1°07'40	minimum elong min. Earth dist.	1798 Mar 16 10:11 1798 Mar 15 19:18	26° ∺ 11'55	8°34'32 0.28022 AU
superior conj minimum elong	1795 Oct 15 23:34 1795 Oct 16 09:46		1°07'40 1°07'21	morning rise	1798 Mar 13 19:18 1798 Mar 19 17:03	20 X 11 33 23° X 46'34	0.28022 AU
minimum clong	1795 Oct 10 09:46 1795 Oct 21 21:46	0° ™	1 0/21	direct	1798 Apr 06 04:26	17°) 53'53	
	1795 Nov 14 19:58	0°× 7 1		greatest brilliancy	1798 Apr 15 11:01	19° ¥ 29'59	-4.8m
desc. node	1795 Nov 17 16:55	3° х 36′18		desc. node	1798 May 04 11:42	0° Υ 15'29	
evening rise	1795 Nov 24 23:06	12° ∡ ¹42'41			1798 May 04 03:24	0° Υ	
Č	1795 Dec 08 17:52	ರ°0		morning max el	1798 May 25 08:05	18° Y 23'11	45°54'19
	1796 Jan 01 16:29	0°≈			1798 Jun 05 23:53	9° 8	
	1796 Jan 25 17:33	0°) €			1798 Jul 03 20:19	Π $^{\circ}0$	
	1796 Feb 19 00:14	0° Y			1798 Jul 30 02:37	0 \circ \odot	
asc. node	1796 Mar 09 20:19	24° Y 08'20			1798 Aug 24 11:31	0 $^{\circ}\Omega$	
	1796 Mar 14 17:14	$0^{\circ}S$		asc. node	1798 Aug 25 15:25	1° Ω 23'38	
	1796 Apr 09 03:46	Π °0			1798 Sep 18 05:19	0° ™	
	1796 May 05 22:12	0ა ௐ			1798 Oct 12 12:24	0∘ ⊽	
evening max el	1796 May 27 15:02	22°5514'46	45°23'30		1798 Nov 05 12:51	0°M	
	1796 Jun 05 00:03	0°N		greatest brilliancy	1798 Nov 18 13:24	16°M20'56	-3.9m
desc. node	1796 Jun 29 09:31	17° Ω 39'47	4.7	morning set	1798 Nov 19 10:27	17°M27'05	
greatest brilliancy	1796 Jul 04 18:16	19° Ω 59'07	-4.7m	daga mada	1798 Nov 29 09:59	0° द्र ⁷ 19° द्र ⁷ 51'36	
retrograde evening set	1796 Jul 15 05:43 1796 Jul 31 20:59	21° Ω 57'37 16° Ω 43'55		desc. node	1798 Dec 15 04:41 1798 Dec 23 06:03	0。名	
inferior conj	1796 Aug 05 16:21	13° Ω 49'29	7°20'56		1796 Dec 23 00.03	0.0	
minimum elong	1796 Aug 05 07:18	13° Ω 03'32	7°19'33	superior conj	1798 Dec 30 14:06	9° る 13'53	-0°35'46
min. Earth dist.	1796 Aug 05 19:54	13°Ω43'59	0.28885 AU	minimum elong	1798 Dec 30 14:00	8° る 45'47	
morning rise	1796 Aug 09 17:25	11° Ω 20'57	0.20002 110	max. Earth dist.	1799 Jan 01 01:58	11° る 06'43	1.71083 AU
direct	1796 Aug 27 06:00	5° Ω 33'09			1799 Jan 16 02:24	0° ≈	
greatest brilliancy	1796 Sep 07 01:19	7° Ω 39'55	-4.8m		1799 Feb 09 00:20	0° ∀	
	1796 Oct 08 18:18	0° m)		evening rise	1799 Feb 09 22:51	1°) (10′27	
morning max el	1796 Oct 16 01:47	7° Mp 02'29	46°23'08		1799 Mar 05 01:27	0° Y	
asc. node	1796 Oct 20 12:59	11° m 32'58			1799 Mar 29 07:42	0° 8	
	1796 Nov 06 17:44	0∘ ⊽		asc. node	1799 Apr 07 08:13	11° 8 04'05	
	1796 Dec 02 17:29	0° M			1799 Apr 22 21:10	Π $\circ 0$	
	1796 Dec 27 14:55	0° ∡ 7			1799 May 17 20:19	0°95	
	1797 Jan 21 01:24	0°る			1799 Jun 12 09:34	0° N	
desc. node	1797 Feb 09 02:21	23° る 32'02		1 1	1799 Jul 08 23:01	0° M)	
	1797 Feb 14 07:43 1797 Mar 10 13:02	0° ₩		desc. node	1799 Jul 27 21:23 1799 Aug 06 18:14	20°™08'45 0° <u>മ</u>	
	1797 Mai 10 13.02 1797 Apr 03 19:02	0 K 0°Υ		evening max el	1799 Aug 08 10:04	0 <u>≈</u> 1° ≏ 35'57	45°50'56
morning set	1797 Apr 03 19:02 1797 Apr 21 16:31	22° Υ '05'08		evening max er	1799 Aug 08 10:04 1799 Sep 16 21:00	0°M	43 30 30
morning sec	1797 Apr 28 02:37	0°8		greatest brilliancy	1799 Sep 17 07:38	0°ML08'38	-4.8m
	1797 May 22 11:43	0°II		retrograde	1799 Sep 26 09:49	1°M38'43	
	,			Ü	1799 Oct 05 13:00	30° ₽ Ω	
superior conj	1797 May 28 23:58	8° Ⅱ 00′12	-0°10'06	evening set	1799 Oct 13 02:27	26° ≏ 22'46	
minimum elong	1797 May 29 02:05	8° Ⅱ 06'43	0°10'00	inferior conj	1799 Oct 17 06:15	23° ≏ 53′10	-6°59'38
behind sun begin	1797 May 28 08:09	7° Ⅱ 11'36		minimum elong	1799 Oct 17 16:31	23° ₽ 37'27	6°57'40
behind sun end	1797 May 29 20:01	9° Ⅱ 01'50		min. Earth dist.	1799 Oct 18 04:08	23° ≏ 19'40	0.27366 AU
max. Earth dist.	1797 May 29 12:28	8° Ⅱ 38'38	1.73519 AU	morning rise	1799 Oct 22 06:09	20° ≏ 54'14	
asc. node	1797 Jun 02 05:49	13° ∏ 13′08		direct	1799 Nov 07 04:41	15° ≏ 58'53	
	1797 Jun 15 21:41	0ა ௐ		asc. node	1799 Nov 18 00:41	18° ≏ 11'36	
evening rise	1797 Jul 04 06:46	22° © 34'41		greatest brilliancy	1799 Nov 18 06:04	18° ≏ 16'54	-4.9m
	1797 Jul 10 07:47	0° N			1799 Dec 06 23:20	0°M 10° M 27 100	16056122
	1797 Aug 03 18:08	0 ்⊽ 0° ™		morning max el	1799 Dec 27 23:00	19° ™ 27'09 0° √	46°56'33
desc. node	1797 Aug 28 05:43 1797 Sep 21 19:13	0° 11 29° 1 57'53			1800 Jan 07 00:08 1800 Feb 02 16:32	0° ਨ ਾ	
dese. Houc	1797 Sep 21 19:13 1797 Sep 21 19:55	29 == 3733 0° ™			1800 Feb 02 16.32 1800 Feb 28 03:28	0°≈	
	1797 Oct 16 14:19	0° ⊼		desc. node	1800 Mar 09 14:21	0 ∞ 11° ≈ 18'38	
	1797 Nov 10 15:51	∞ੰਤ			1800 Mar 05 14:21 1800 Mar 25 02:52	0° ∀	
	1797 Dec 06 08:56	0° ≈			1800 Apr 18 21:23	0° Υ	
	1798 Jan 02 20:26	0° ∀			1800 May 13 13:48	0°8	
					-		

	1800 Jun 07 04:45	0° Ⅱ		retrograde	1802 Dec 11 01:25	17° る 03'27	
morning set	1800 Jun 30 00:03	27° I I52'32		asc. node	1802 Dec 11 01:23	17 30327 16°る26'25	
asc. node	1800 Jun 30 17:43	28° II 46'39		evening set	1802 Dec 10 12:39	10 3 2023	
use. Houe	1800 Jul 01 17:40	0°9		min. Earth dist.	1802 Dec 31 02:23	9° ප 38'44	0.26499 AU
	1800 Jul 26 03:39	0°N		inferior conj	1802 Dec 31 15:12	9° ♂ 19'08	3°48'39
max. Earth dist.	1800 Aug 02 08:42	8° £ 53′26	1.73208 AU	minimum elong	1802 Dec 31 07:12	9° ට 31'22	
man. Darun dist.	10001148 02 00.12	0 0000 20	1.,5200110	morning rise	1803 Jan 06 00:54	6° る 07'28	3 10 17
superior conj	1800 Aug 05 08:52	12° Ω 36′09	1°11'23	direct	1803 Jan 20 22:46	1° る 41'37	
minimum elong	1800 Aug 05 00:49	12°Ω11'17		greatest brilliancy	1803 Jan 30 13:29	3° ට 26'31	-4.9m
Č	1800 Aug 19 10:32	0° m)		· ·	1803 Mar 08 00:14	0° ≈	
evening rise	1800 Sep 10 16:00	27° m 33'39		morning max el	1803 Mar 12 01:02	3°≈56'47	46°38'01
C	1800 Sep 12 15:10	0° ق		Č	1803 Apr 05 18:14	0° ∀	
	1800 Oct 06 18:52	0°M		desc. node	1803 Apr 07 02:04	1° ¥ 27'41	
desc. node	1800 Oct 20 07:05	16°M46'36			1803 May 02 07:25	$0^{\circ}\mathbf{Y}$	
	1800 Oct 30 22:46	0° ∡ ¹			1803 May 28 00:35	0°8	
	1800 Nov 24 03:45	ರ∘ರ			1803 Jun 22 07:14	$\Pi^{\circ}0$	
	1800 Dec 18 11:35	0° ≈			1803 Jul 17 06:02	0°50	
	1801 Jan 12 02:30	0° ∀		asc. node	1803 Jul 29 05:34	14° 5 32'27	
	1801 Feb 06 09:47	0 ° Υ			1803 Aug 10 21:24	$\mathfrak{O}^{\circ} \mathfrak{O}$	
asc. node	1801 Feb 10 10:24	4° Ƴ 38'51			1803 Sep 04 05:49	O° My	
	1801 Mar 05 06:40	$_{0\circ}$ 8		morning set	1803 Sep 07 03:58	3°₩37'15	
evening max el	1801 Mar 16 18:29	11° 8 48'31	46°09'23		1803 Sep 28 08:49	0∘ ত	
	1801 Apr 06 02:52	Π $^{\circ}0$		max. Earth dist.	1803 Oct 11 20:02	16° ≏ 49'37	1.71808 AU
greatest brilliancy	1801 Apr 24 08:12	10° Ⅱ 54'48	-4.8m				
retrograde	1801 May 05 05:15	13° Ⅱ 04'30		superior conj	1803 Oct 14 14:22	20° ≏ 17'11	1°09'44
evening set	1801 May 20 12:31	8° Ⅱ 32'08		minimum elong	1803 Oct 14 23:56	20° ≏ 47'06	1°09'28
inferior conj	1801 May 26 15:39	4° Ⅱ 49'35	1°29'33		1803 Oct 22 08:31	0°M	
minimum elong	1801 May 26 18:54	4° Ⅱ 44'28	1°28'36		1803 Nov 15 06:49	0° √	
min. Earth dist.	1801 May 26 16:04	4° Ⅱ 48'56	0.28835 AU	desc. node	1803 Nov 17 18:58	3° ₮ 08'40	
desc. node	1801 Jun 01 23:37	1° Ⅱ 00'27		evening rise	1803 Nov 23 10:39	10° √ 14'14	
morning rise	1801 Jun 02 01:29	0° Ⅱ 57'54			1803 Dec 09 04:51	0°ಕ	
	1801 Jun 03 21:40	30° ₹ 8			1804 Jan 02 03:37	0° ≈	
direct	1801 Jun 17 04:27	26° 8 34'17			1804 Jan 26 04:55	0° ∀	
greatest brilliancy	1801 Jun 27 09:29	28° 8 26'18	-4.7m		1804 Feb 19 11:58	0° Υ	
	1801 Jul 01 06:00	$\Pi^{\circ}0$		asc. node	1804 Mar 09 22:17	23° Y 37'27	
morning max el	1801 Aug 04 21:36	26° Ⅱ 14'41	45°46'21		1804 Mar 15 05:37	0°B	
	1801 Aug 08 18:38	0ංම			1804 Apr 09 17:25	0°Щ	
_	1801 Sep 06 05:21	0°N			1804 May 06 14:50	0°95	
asc. node	1801 Sep 23 03:15	19° Ω 13'43		evening max el	1804 May 26 07:18	20° © 05'41	45°24'02
	1801 Oct 02 08:17	0° Mp			1804 Jun 06 03:15	0°Ω	
	1801 Oct 27 07:59	0∘ 亚		desc. node	1804 Jun 29 11:38	16° Ω 11'46	4.5
	1801 Nov 20 16:52	0° M 0°. ₹		greatest brilliancy	1804 Jul 03 08:02	17° Ω 47'34	-4.7m
	1801 Dec 14 18:20	0° ∡		retrograde	1804 Jul 13 21:55	19° Ω 47'54	
11-	1802 Jan 07 16:54	0°る		evening set	1804 Jul 30 09:38	14° Ω 38'25	790015.4
desc. node	1802 Jan 12 16:36	6°る15'18 0°≈		inferior conj	1804 Aug 04 08:13	11° Ω 39'06	
marning sat	1802 Jan 31 15:03 1802 Feb 05 09:59	0°≈ 6°≈00'09		minimum elong min. Earth dist.	1804 Aug 03 22:53 1804 Aug 04 10:37	11° Ω 53'37 11° Ω 35'22	0.28905 AU
morning set	1802 Feb 03 09:39 1802 Feb 24 14:11	0° ∺		morning rise	1804 Aug 08 11:58	9° Ω 06'43	0.28903 AU
	1802 160 24 14.11	0 /		direct	1804 Aug 25 22:42	3° Ω 22'37	
superior conj	1802 Mar 17 23:11	26°) 40′05	-1°24'04	greatest brilliancy	1804 Sep 05 16:21	5° Ω 28'15	-4.8m
minimum elong	1802 Mar 18 03:46	26°\(\frac{4}{4}\)03		greatest offiliality	1804 Oct 09 18:41	0° m)	- - 0111
minimum ciong	1802 Mar 20 15:28	0° Υ	1 2401	morning max el	1804 Oct 14 17:55	الات 4° الله 49'42	46°21'36
max. Earth dist.	1802 Mar 22 01:25	1° Y 45'35	1.72233 AU	asc. node	1804 Oct 20 14:57	10°Mp46'41	40 21 30
max. Darm dist.	1802 Apr 13 19:55	0°8	1.72233 110	use. Houe	1804 Nov 07 10:00	0ಂ ರ	
evening rise	1802 Apr 25 22:32	14° 8 56'46			1804 Dec 03 07:13	0°M	
asc. node	1802 May 05 20:02	27° 8 07'35			1804 Dec 28 03:27	0° ∡ 7	
	1802 May 08 04:09	0°II			1805 Jan 21 13:16	0°ප	
	1802 Jun 01 16:21	0°60		desc. node	1805 Feb 09 04:27	23° る 02'58	
	1802 Jun 26 08:53	$0^{\circ}\Omega$			1805 Feb 14 19:08	0°≈	
	1802 Jul 21 07:12	0° m)			1805 Mar 11 00:08	0°) €	
	1802 Aug 15 14:29	0∘ ⊽			1805 Apr 04 05:56	0° Υ	
desc. node	1802 Aug 25 09:18	11° ≏ 25'35		morning set	1805 Apr 20 08:18	19° Y 52'33	
	1802 Sep 10 12:44	0° M ₊		Č	1805 Apr 28 13:21	0°8	
	1802 Oct 07 16:12	0° ∡ ¹			1805 May 22 22:20	0°II	
evening max el	1802 Oct 21 14:15	14° ∡ ¹21'25	46°59'18		-		
	1802 Nov 07 10:54	8°0		superior conj	1805 May 27 17:13	5° Ⅱ 53'06	-0°13'19
greatest brilliancy	1802 Dec 01 03:46	15° る 11'12	-4.9m	minimum elong	1805 May 27 20:01	6° Ⅱ 01'42	0°13'11
ř				3	•		

behind sun begin	1905 May 27, 07:00	5° Ⅱ 22'09		direct	1907 Nov. 05 19.22	129 0 26/24	
· ·	1805 May 27 07:09			direct	1807 Nov 05 18:22	13° Ω 36'24	4.0
behind sun end	1805 May 28 08:53	6° Ⅱ 41'15	1 72 400 4 11	greatest brilliancy	1807 Nov 16 21:08	15° £ 55'03	-4.9m
max. Earth dist.	1805 May 28 11:13	6° Ⅱ 48'25	1.73499 AU	asc. node	1807 Nov 18 02:51	16° Ω 25'58	
asc. node	1805 Jun 02 07:57	12° Ⅱ 47'10			1807 Dec 08 10:49	0° ™	
	1805 Jun 16 08:15	0ಂ ತಾ		morning max el	1807 Dec 26 11:46	17°M00'09	46°56'09
evening rise	1805 Jul 03 01:31	20°©32'16			1808 Jan 07 19:11	0°⊀	
	1805 Jul 10 18:27	$0^{\circ}\Omega$			1808 Feb 03 07:35	8°0	
	1805 Aug 04 05:01	O° My			1808 Feb 28 16:44	0° ≈	
	1805 Aug 28 16:58	0∘ ⊽		desc. node	1808 Mar 08 16:15	10° ≈ 45′52	
desc. node	1805 Sep 21 21:10	29° ≏ 27'57			1808 Mar 24 15:06	0° ∀	
	1805 Sep 22 07:43	0° M.			1808 Apr 18 08:57	0 ° Υ	
	1805 Oct 17 02:54	0° ∡ ¹			1808 May 13 00:54	0° ႘	
	1805 Nov 11 05:38	0°ප			1808 Jun 06 15:34	$\Pi^{\circ}0$	
	1805 Dec 07 00:59	0° ≈		morning set	1808 Jun 27 18:10	25° ∏ 48'18	
evening max el	1806 Jan 01 23:46	28°≈11'46	47°13'23	asc. node	1808 Jun 29 19:48	28° ∏ 20′19	
3	1806 Jan 03 18:27	0°) €			1808 Jul 01 04:20	0°©	
asc. node	1806 Jan 13 00:36	8°) 59'04			1808 Jul 25 14:17	$0^{\circ}\Omega$	
greatest brilliancy	1806 Feb 11 09:15	29°) (42'24	-4.9m	max. Earth dist.	1808 Jul 31 03:14	6° Ω 49'45	1.73247 AU
greatest offinality		29 Λ 42 24	-4.7111	max. Earm dist.	1000 Jul 31 03.14	0 064943	1./324/ AU
. 1	1806 Feb 12 04:25				1000 4 02 02 05	100 021124	1000120
retrograde	1806 Feb 21 21:01	1° Υ 47'36		superior conj	1808 Aug 03 03:05	10° Ω 31'24	1°09'38
	1806 Mar 03 03:45	30° ₹		minimum elong	1808 Aug 02 18:48	10° Ω 05'50	1°09'24
evening set	1806 Mar 11 19:38	25° ∺ 31'24			1808 Aug 18 21:14	0° m)	
inferior conj	1806 Mar 14 20:47	23° ∺ 37'14		evening rise	1808 Sep 08 08:28	25° Mp 22'18	
minimum elong	1806 Mar 15 00:12	23°) €31'51	8°39'12		1808 Sep 12 02:00	0∘ ⊽	
min. Earth dist.	1806 Mar 14 08:53	23° ℋ 55'57	0.27975 AU		1808 Oct 06 05:55	0°M₊	
morning rise	1806 Mar 18 05:02	21°) 32′55		desc. node	1808 Oct 19 09:07	16° ™ 18'07	
direct	1806 Apr 04 19:17	15°) 37′05			1808 Oct 30 10:06	0° ∡ ¹	
greatest brilliancy	1806 Apr 13 23:43	17°) 11'41	-4.8m		1808 Nov 23 15:30	8°0	
desc. node	1806 May 04 13:48	29°) 07′27			1808 Dec 17 23:52	0° ≈	
	1806 May 05 16:47	$_{0}$ $^{\circ}$ γ			1809 Jan 11 15:36	0°) €	
morning max el	1806 May 23 23:09	16° Y 09'43	45°55'14		1809 Feb 06 00:26	0°Υ	
morning max er	1806 Jun 06 18:32	0°8	13 33 11	asc. node	1809 Feb 09 12:22	4° Υ 01'28	
	1806 Jul 04 10:44	0°II		asc. node	1809 Mar 05 01:11	0°8	
		0°©				.T.	46911153
	1806 Jul 30 15:14			evening max el	1809 Mar 14 08:34	9° 8 31'01	46°11'52
	1806 Aug 24 23:13	0° Ω			1809 Apr 06 16:42	0°Ⅱ	4.0
asc. node	1806 Aug 25 17:24	0° £ 54'35		greatest brilliancy	1809 Apr 22 01:16	8° ∏ 45'52	-4.8m
	1806 Sep 18 16:32	0° m		retrograde	1809 May 02 21:32	10° ∏ 55'34	
	1806 Oct 12 23:23	0∘ ত		evening set	1809 May 18 06:25	6° Ⅱ 20'46	
	1806 Nov 05 23:45	0°M		inferior conj	1809 May 24 08:05	2° ∏ 40'33	1°49'05
morning set	1806 Nov 17 22:33	15° ™ 00'08		minimum elong	1809 May 24 12:01	2° ∏ 34'23	1°47'57
	1806 Nov 29 20:51	0° ∡ ¹		min. Earth dist.	1809 May 24 08:55	2° ∏ 39'15	0.28821 AU
desc. node	1806 Dec 15 06:50	19° ∡ ¹24'07			1809 May 28 16:07	30° ₹ 8	
	1806 Dec 23 16:54	0°ප		morning rise	1809 May 30 17:45	28° 8 49'01	
				desc. node	1809 Jun 01 01:41	28° 8 06'30	
superior conj	1806 Dec 28 23:52	6° る 39'25	-0°32'04	direct	1809 Jun 14 20:00	24° 8 25'14	
minimum elong	1806 Dec 28 15:44	6°る13'49		greatest brilliancy	1809 Jun 25 01:54	26° 8 17'52	-4.7m
max. Earth dist.	1806 Dec 30 07:10		1.71070 AU	8	1809 Jul 03 03:28	0°II	
man. Bartin diot.	1807 Jan 16 13:16	0°≈	1.,10,0110	morning max el	1809 Aug 02 13:08	24° ∏ 04'01	45°45'48
evening rise	1807 Feb 08 09:34	28° ≈ 39'46		morning max or	1809 Aug 08 15:06	0°9	15 15 16
evening rise		0° \			_	0°N	
	1807 Feb 09 11:12	0 K 0°Υ		1-	1809 Sep 05 20:26		
	1807 Mar 05 12:21			asc. node	1809 Sep 22 05:15	18° Ω 40'00	
	1807 Mar 29 18:45	0°8			1809 Oct 01 21:23	0° m y	
asc. node	1807 Apr 07 10:13	10° 8 36'08			1809 Oct 26 20:10	0∘ ⊽	
	1807 Apr 23 08:31	$\Pi^{\circ}0$			1809 Nov 20 04:33	0°M₊	
	1807 May 18 08:20	0°€			1809 Dec 14 05:44	0°⊀	
	1807 Jun 12 22:49	0 $^{\circ}$ Ω			1810 Jan 07 04:09	0°₹	
	1807 Jul 09 14:50	0° ™		desc. node	1810 Jan 11 18:35	5° る 46'26	
desc. node	1807 Jul 27 23:28	19° m 24'25			1810 Jan 31 02:10	0° ≈	
evening max el	1807 Aug 06 23:14	29° m 17'01	45°48'50	morning set	1810 Feb 02 19:49	3° ≈ 25'49	
-	1807 Aug 07 17:14	0∘ ⊽		-	1810 Feb 24 01:11	0° ∀	
greatest brilliancy	1807 Sep 15 20:53	27° ≏ 48'32	-4.8m				
retrograde	1807 Sep 24 22:00	29° £ 17'58		superior conj	1810 Mar 15 12:06	24°) 16′52	-1°24'47
evening set	1807 Oct 11 18:50	23° ⊆ 57'17		minimum elong	1810 Mar 15 15:50	24°) (1032	
inferior conj	1807 Oct 11 18:30 1807 Oct 15 19:43	23 ⊆ 3717 21° ⊆ 31'50	-7°12'46	max. Earth dist.	1810 Mar 19 11:55	24 X 26 27 29° X 15'01	1.72176 AU
minimum elong	1807 Oct 15 19.43 1807 Oct 16 05:42	21° £ 3130		max. Darui Uist.	1810 Mar 20 02:22	29 χ 1301	1.72170 AU
•							
min. Earth dist.	1807 Oct 16 18:04	20° £ 57'33	0.27433 AU	avari	1810 Apr 13 06:48	0° 8	
morning rise	1807 Oct 20 16:06	18° ≏ 37'28		evening rise	1810 Apr 23 13:54	12° 8 42'40	

asc. node	1810 May 04 22:11	26° 8 40'41			1812 Nov 07 02:22	0∘ ত	
	1810 May 07 15:04	Π $^{\circ}0$			1812 Dec 02 21:13	0° M	
	1810 Jun 01 03:25	0 \circ \odot			1812 Dec 27 16:22	0° ∡ 7	
	1810 Jun 25 20:18	$0^{\circ}\Omega$			1813 Jan 21 01:32	0°ප	
	1810 Jul 20 19:16	0° m)		desc. node	1813 Feb 08 06:26	22° る 32'14	
	1810 Aug 15 03:40	0∘ <u>⊽</u>			1813 Feb 14 06:57	0° ≈	
desc. node	1810 Aug 24 11:12	10° £ 51'04			1813 Mar 10 11:37	0°) €	
	1810 Sep 10 03:55	0°M			1813 Apr 03 17:10	$_{0}^{\circ}\Upsilon$	
	1810 Oct 07 11:44	0° ∡ 7		morning set	1813 Apr 17 23:54	17° Ƴ 38'26	
evening max el	1810 Oct 19 03:38	11° х 56'59	46°57'24	morning out	1813 Apr 28 00:23	0°8	
evening max er	1810 Nov 07 23:16	0°る	10 3721		1813 May 22 09:16	0°II	
greatest brilliancy	1810 Nov 28 16:31	0 3 12° る 41'32	-4.9m		1015 May 22 05.10	о д	
retrograde	1810 Dec 08 14:08	14°る33'44	4.7111	superior conj	1813 May 25 10:27	3° Ⅱ 44'58	-0°16'32
asc. node	1810 Dec 08 14:08	14 3 3344		minimum elong	•	3° Д 55'36	
	1810 Dec 23 00:26	13 3 3227 10° る 24'44		max. Earth dist.	1813 May 25 13:55 1813 May 26 10:00		1.73477 AU
evening set	1810 Dec 28 15:34		0.26476 AU		1813 Jun 01 09:59	12° Ⅱ 19'51	1./34// AU
min. Earth dist.		6° 石 49'53	0.26476 AU 3°26'10	asc. node		0°95	
inferior conj	1810 Dec 29 03:22				1813 Jun 15 19:10		
minimum elong	1810 Dec 28 20:01	7°る01'06	3°23'57	evening rise	1813 Jun 30 20:23	18° 5 29'06	
morning rise	1811 Jan 03 15:47	3°₹35'00			1813 Jul 10 05:27	0° N	
	1811 Jan 12 06:58	30°₹ ৴			1813 Aug 03 16:15	0° т р	
direct	1811 Jan 18 11:12	29° ∡ 12'28			1813 Aug 28 04:35	0∘ ত	
	1811 Jan 24 19:53	0°రె		desc. node	1813 Sep 20 23:18	28° ≏ 57'31	
greatest brilliancy	1811 Jan 28 02:54	0° る 58'53	-4.9m		1813 Sep 21 19:54	0°M₊	
	1811 Mar 08 00:49	0° ≈			1813 Oct 16 15:54	0°⊀	
morning max el	1811 Mar 09 15:08	1° ≈ 34'41	46°39'26		1813 Nov 10 19:58	0°ರ	
	1811 Apr 05 11:04	0° ∀			1813 Dec 06 17:49	0° ≈	
desc. node	1811 Apr 06 04:11	0°) (47′23		evening max el	1813 Dec 30 14:53	25° ≈ 50′22	47°14'20
	1811 May 01 21:28	$0^{\circ}\Upsilon$			1814 Jan 03 18:06	0° ℋ	
	1811 May 27 13:13	9° 8		asc. node	1814 Jan 12 02:34	7° 升 58′12	
	1811 Jun 21 19:03	Π $^{\circ}0$		greatest brilliancy	1814 Feb 09 00:47	27° ₩ 22'13	-4.9m
	1811 Jul 16 17:21	0 \circ \odot		retrograde	1814 Feb 19 11:54	29° ∺ 26'37	
asc. node	1811 Jul 28 07:35	14° © 04'40		evening set	1814 Mar 09 11:10	23° ₩ 09'56	
	1811 Aug 10 08:26	$\mathfrak{O}^{\circ} \mathfrak{O}$		inferior conj	1814 Mar 12 11:21	21°) (17′06	8°43'09
	1811 Sep 03 16:44	0° m		minimum elong	1814 Mar 12 13:59	21° 升 12'58	8°43'03
morning set	1811 Sep 04 20:37	1° m 26'19		min. Earth dist.	1814 Mar 11 22:36	21°) 37'11	0.27921 AU
-	1811 Sep 27 19:45	0° ⊽		morning rise	1814 Mar 15 17:02	19° 升 16′33	
max. Earth dist.	1811 Oct 09 09:29	14° ≏ 27'13	1.71858 AU	direct	1814 Apr 02 09:28	13° ₩ 18'08	
				greatest brilliancy	1814 Apr 11 12:37	14°) 51′35	-4.8m
superior conj	1811 Oct 12 04:47	17° ≏ 57'39	1°11'42	desc. node	1814 May 03 15:56	27° ¥ 59'57	
minimum elong	1811 Oct 12 13:58	18° ≏ 26′23			1814 May 06 03:22	$0^{\circ}\Upsilon$	
	1811 Oct 21 19:35	0°M		morning max el	1814 May 21 13:00	13° Y 51'53	45°56'18
	1811 Nov 14 18:00	0° ∡ 7		. <i>&</i>	1814 Jun 06 13:06	0°8	
desc. node	1811 Nov 16 21:07	2° √ 40'15			1814 Jul 04 01:20	0°II	
evening rise	1811 Nov 20 21:50	7° ∡ ¹43'33			1814 Jul 30 04:07	0°9	
evening rise	1811 Dec 08 16:10	0°る			1814 Aug 24 11:13	$0^{\circ}\Omega$	
	1812 Jan 01 15:05	0° ≈		asc. node	1814 Aug 24 19:24	0° Ω 24'36	
	1812 Jan 25 16:35	0° ∀		use. Houe	1814 Sep 18 04:04	0° my	
	1812 Feb 18 24:00	0°Υ			1814 Oct 12 10:42	0∘ ಹ ೧.೫	
asc. node	1812 Mar 09 00:18	23°Υ05'50			1814 Nov 05 10:57	0° m	
ase. Hode	1812 Mar 14 18:20	0°8		morning set	1814 Nov 15 11:04	12°M33'32	
	1812 Apr 09 07:29	0°II		morning set	1814 Nov 29 08:03	0° ₹	
	1812 May 06 08:05	0°©		desc. node	1814 Dec 14 08:49	18° ∡ 155'08	
avanina may al		0 95 17°956'43	45024125	desc. node		0°중	
evening max el	1812 May 23 23:58		45 24 55		1814 Dec 23 04:07	0.0	
11-	1812 Jun 06 08:35	0° Ω			1014 D 26 00-45	40=04!12	0920110
desc. node	1812 Jun 28 13:42	14° Ω 40'07	4.7	superior conj	1814 Dec 26 09:45	4°る04'13	
greatest brilliancy	1812 Jun 30 22:36	15° Ω 36'25	-4./M	minimum elong	1814 Dec 26 02:27	3°₹41'17	
retrograde	1812 Jul 11 14:00	17° Ω 37'41		max. Earth dist.	1814 Dec 27 09:32		1.71066 AU
evening set	1812 Jul 27 22:32	12° Ω 32'37	C050H 0		1815 Jan 16 00:31	0°≈	
inferior conj	1812 Aug 02 00:13	9° Ω 28'27		evening rise	1815 Feb 05 19:55	26°≈06'34	
minimum elong	1812 Aug 01 14:39	9° Ω 43'19			1815 Feb 08 22:29	0°) €	
min. Earth dist.	1812 Aug 02 01:38		0.28921 AU		1815 Mar 04 23:42	0° Υ	
morning rise	1812 Aug 06 06:40	6° Ω 51'57		_	1815 Mar 29 06:13	0° 8	
direct	1812 Aug 23 15:32	1° Ω 12'01		asc. node	1815 Apr 06 12:21	10° 8 07'16	
greatest brilliancy	1812 Sep 03 07:09	3° Ω 15'53	-4.8m		1815 Apr 22 20:18	0° Ⅱ	
	1812 Oct 09 18:17	0° т р			1815 May 17 20:46	0ಂ ತಾ	
morning max el	1812 Oct 12 09:11	2° m 34'07	46°19'52		1815 Jun 12 12:32	$0^{\circ}\Omega$	
asc. node	1812 Oct 19 17:09	10°Mp00'56			1815 Jul 09 07:17	0° m y	

desc. node	1815 Jul 27 01:25	18° m 38'12			1818 Jan 30 13:19	0° ≈	
evening max el	1815 Aug 04 11:52	26° Mp 56'06	45°46'52	morning set	1818 Jan 31 06:03	0°≈52'27	
* · · · · · · · · · · · · · · · · · · ·	1815 Aug 07 17:41	0∘ ⊽			1818 Feb 23 12:12	0°) €	
greatest brilliancy	1815 Sep 13 10:09	25° Ω 28'06	-4.8m				
retrograde	1815 Sep 22 10:41	26° £ 57'23		superior conj	1818 Mar 13 01:08	21° ¥ 53'48	-1°25'21
evening set	1815 Oct 09 11:19	21° ≏ 31'45		minimum elong	1818 Mar 13 03:57	22°) €02'36	1°25'20
inferior conj	1815 Oct 13 09:23	19° ≙ 10'31	-7°25'02	max. Earth dist.	1818 Mar 16 23:42	26°) 48′19	1.72123 AU
minimum elong	1815 Oct 13 19:02	18° ≙ 55'42	7°23'24		1818 Mar 19 13:18	0 ° Υ	
min. Earth dist.	1815 Oct 14 08:11	18° ≏ 35'33	0.27502 AU		1818 Apr 12 17:43	9° 8	
morning rise	1815 Oct 18 02:16	16° ≏ 21'00		evening rise	1818 Apr 21 05:17	10° 8 28'27	
direct	1815 Nov 03 08:06	11° ≏ 13'46		asc. node	1818 May 04 00:12	26° 8 13'09	
greatest brilliancy	1815 Nov 14 12:31	13° ≏ 33'35	-4.9m		1818 May 07 02:03	Π °0	
asc. node	1815 Nov 17 04:50	14° ≏ 43'53			1818 May 31 14:35	0ა ௐ	
	1815 Dec 08 19:31	0°M₊			1818 Jun 25 07:49	0 $^{\circ}\Omega$	
morning max el	1815 Dec 24 01:11	14°M34'14	46°55'46		1818 Jul 20 07:25	0° m)	
	1816 Jan 07 13:58	0° ∡ 7			1818 Aug 14 16:57	0∘ ⊽	
	1816 Feb 02 22:44	0°ප		desc. node	1818 Aug 23 13:21	10° Ω 17'09	
	1816 Feb 28 06:13	0°≈			1818 Sep 09 19:19	0°M 0°. 7	
desc. node	1816 Mar 07 18:22	10°≈12'53			1818 Oct 07 07:50	0° 🗷	46055121
	1816 Mar 24 03:38	0° ∀ 0° Υ		evening max el	1818 Oct 16 17:53	9° メ 34'59 0°る	46°55'21
	1816 Apr 17 20:51	0° ∀		araataat brillianas	1818 Nov 08 15:39 1818 Nov 26 05:02	0°る 10°る11'54	4.000
	1816 May 12 12:20 1816 Jun 06 02:41	0°II		greatest brilliancy retrograde	1818 Dec 06 03:05	10 311 34 12° る 04'02	-4.9111
morning set	1816 Jun 25 12:10	23° ∏ 42'51		asc. node	1818 Dec 14 16:44	12 00402 10°る32'55	
asc. node	1816 Jun 28 21:45	27° I I52'46		evening set	1818 Dec 20 11:28	7°る56'57	
use. Houe	1816 Jun 30 15:16	0°95		min. Earth dist.	1818 Dec 26 04:36	4° る 37'13	0.26455 AU
	1816 Jul 25 01:10	$0^{\circ}\Omega$		inferior conj	1818 Dec 26 15:30	4° る 20'38	3°03'07
max. Earth dist.	1816 Jul 28 24:00		1.73285 AU	minimum elong	1818 Dec 26 08:51		3°01'06
				morning rise	1819 Jan 01 06:30	1° る 02'44	
superior conj	1816 Jul 31 21:20	8° Ω 26′05	1°07'47	C	1819 Jan 03 06:57	30°₽ ✓	
minimum elong	1816 Jul 31 12:50	7° Ω 59'53	1°07'32	direct	1819 Jan 15 23:57	26° х ⁴43'36	
_	1816 Aug 18 08:10	0° m		greatest brilliancy	1819 Jan 25 15:53	28° ∡ ³30'44	-4.9m
evening rise	1816 Sep 06 01:18	23°Mp11'25			1819 Jan 29 07:17	ರ°0	
	1816 Sep 11 13:04	0∘ ⊽		morning max el	1819 Mar 07 05:15	29° る 12'50	46°40'55
	1816 Oct 05 17:13	0° M			1819 Mar 08 00:09	0° ≈	
desc. node	1816 Oct 18 11:15	15°M49'09		desc. node	1819 Apr 05 06:18	0°) €07'59	
	1816 Oct 29 21:42	0°⊀			1819 Apr 05 03:26	0° ∀	
	1816 Nov 23 03:28	0°ಕ			1819 May 01 11:13	0° Y	
	1816 Dec 17 12:21	0° ≈			1819 May 27 01:40	0°B	
	1817 Jan 11 04:55	0°) €			1819 Jun 21 06:44	0°П	
	1817 Feb 05 15:24	0° Υ			1819 Jul 16 04:34	0°®	
asc. node	1817 Feb 08 14:24	3° Y 23'30		asc. node	1819 Jul 27 09:38	13° © 37'14	
	1817 Mar 04 20:26	0° 8	4.601.411.5		1819 Aug 09 19:22	0°N	
evening max el	1817 Mar 11 23:10	7° 8 14'01	46°14'15	morning set	1819 Sep 02 13:22	29° Ω 16'07	
	1817 Apr 07 11:53	0° П 6° П 35'21	4.0		1819 Sep 03 03:33	0 ∘ ச 0∘ ம்	
greatest brilliancy retrograde	1817 Apr 19 17:49 1817 Apr 30 14:16	8° П 45'39	-4.8m	max. Earth dist.	1819 Sep 27 06:34 1819 Oct 06 21:40	12° £ 01'23	1.71906 AU
evening set	1817 May 16 00:24	6 П 43 39 4° П 08'07		max. Earm dist.	1819 Oct 00 21.40	12 = 01 23	1./1900 AU
inferior conj	1817 May 16 00:24 1817 May 22 00:27		2°08'39	superior conj	1819 Oct 09 19:27	15° ≏ 39'31	1°13'32
minimum elong	1817 May 22 05:03	0° П 23'10		minimum elong	1819 Oct 10 04:12		1°13'18
min. Earth dist.	1817 May 22 01:26		0.28807 AU	g	1819 Oct 21 06:28	0°M	1 15 10
	1817 May 22 19:48	30° ₹ 8			1819 Nov 14 05:02	0° ∡ ¹	
morning rise	1817 May 28 09:50	26° 8 39'29		desc. node	1819 Nov 15 23:04	2° ∡ 11'46	
desc. node	1817 May 31 03:42	25° 8 15'00		evening rise	1819 Nov 18 09:13	5° ∡ 14'05	
direct	1817 Jun 12 11:46	22° 8 15'07		•	1819 Dec 08 03:21	0°ප	
greatest brilliancy	1817 Jun 22 17:57	24° 8 08'15	-4.7m		1820 Jan 01 02:25	0° ≈	
	1817 Jul 04 10:41	Π °0			1820 Jan 25 04:09	0° ∀	
morning max el	1817 Jul 31 05:29	21° Ⅱ 54'54	45°45'21		1820 Feb 18 11:54	0 ° Υ	
	1817 Aug 08 11:08	0 \circ \odot		asc. node	1820 Mar 08 02:28	22° Y 35'14	
	1817 Sep 05 11:26	0 $^{\circ}\Omega$			1820 Mar 14 06:53	0°8	
asc. node	1817 Sep 21 07:25	18° Ω 06'44			1820 Apr 08 21:25	Π °0	
	1817 Oct 01 10:29	0° m)			1820 May 06 01:25	0°50	
	1817 Oct 26 08:22	0∘ ⊽		evening max el	1820 May 21 16:17	15° © 47'35	45°25'03
	1817 Nov 19 16:17	0°M			1820 Jun 06 15:48	0° Ω	
	1817 Dec 13 17:14	0° ∡ ¹		desc. node	1820 Jun 27 15:40	13° Ω 05'54	4.7.
daga mada	1818 Jan 06 15:27	0°る 5° る 17'24		greatest brilliancy	1820 Jun 28 13:52	13° Ω 26'47	-4.7m
desc. node	1818 Jan 10 20:37	5° る 17'24		retrograde	1820 Jul 09 05:42	15° Ω 28'14	

evening set inferior conj	1820 Jul 25 11:37 1820 Jul 30 16:18	10° Ω 27'37 7° Ω 18'45	-6°46'02	minimum elong max. Earth dist.	1822 Dec 23 13:07 1822 Dec 24 11:39	1°弓09'35 2°弓20'28	0°24'11 1.71063 AU
minimum elong	1820 Jul 30 06:35	7° Ω 33'55	6°44'17		1823 Jan 15 11:25	0° ≈	
min. Earth dist.	1820 Jul 30 17:08	7° Ω 17'27	0.28937 AU	evening rise	1823 Feb 03 06:11	23° ≈ 34′07	
morning rise	1820 Aug 04 01:28	4° Ω 38′00			1823 Feb 08 09:26	0°) €	
	1820 Aug 14 08:39	30° ₹ 5			1823 Mar 04 10:43	0° Y	
direct	1820 Aug 21 08:03	29° © 02'21			1823 Mar 28 17:23	0°8	
	1820 Aug 28 12:22	0° Ω		asc. node	1823 Apr 05 14:21	9° 8 38'56	
greatest brilliancy	1820 Aug 31 22:23	1° Ω 04'41	-4.8m		1823 Apr 22 07:50	0°Ⅱ	
·	1820 Oct 09 16:39	0° ጥ 0° ሙ 17'21	46010012		1823 May 17 08:57	0 ം ${f V}$	
morning max el asc. node	1820 Oct 09 23:40 1820 Oct 18 19:08	9° Mg 15'57	46°18'12		1823 Jun 12 02:01 1823 Jul 08 23:37	0° m)	
asc. node	1820 Nov 06 18:12	0₀ ʊ		desc. node	1823 Jul 26 03:35	17° Mp 53'02	
	1820 Dec 02 10:50	o° m .		evening max el	1823 Aug 02 00:40	24° m/ 36'59	45°44'59
	1820 Dec 27 04:55	0°× 7 1		ovening max or	1823 Aug 07 18:51	0° ⊡	15 115)
	1821 Jan 20 13:28	0° ට		greatest brilliancy	1823 Sep 10 22:43	23° ≏ 08'14	-4.8m
desc. node	1821 Feb 07 08:31	22° る 02'39		retrograde	1823 Sep 19 23:48	24° ≙ 38'11	
	1821 Feb 13 18:28	0°≈		evening set	1823 Oct 07 03:42	19° ≏ 07'23	
	1821 Mar 09 22:50	0° ∀		inferior conj	1823 Oct 10 23:03	16° ≙ 50'14	-7°36'21
	1821 Apr 03 04:08	0 ° $\mathbf{\Upsilon}$		minimum elong	1823 Oct 11 08:19	16° ≏ 36′01	
morning set	1821 Apr 15 15:31	15° Y 25′06		min. Earth dist.	1823 Oct 11 22:00	16° ≏ 15'05	0.27575 AU
	1821 Apr 27 11:09	0°B		morning rise	1823 Oct 15 12:28	14° ≏ 05'49	
	1821 May 21 19:54	Π °0		direct	1823 Oct 31 22:15	8° ≏ 52'06	
	1021 M 22 02 52	10Т20117	0010142	greatest brilliancy	1823 Nov 12 03:47	11° Ω 13'02	-4.9m
superior conj	1821 May 23 03:52 1821 May 23 07:58	1° П 38'16 1° П 50'53		asc. node	1823 Nov 16 06:51 1823 Dec 09 01:29	13° £ 06′27 0° I L	
minimum elong max. Earth dist.	1821 May 24 08:01	1°Д3033 3°Д04'49	1.73449 AU	morning max el	1823 Dec 21 15:38	12°ML11'47	46°55'10
asc. node	1821 May 31 11:59	11° I I53′22	1.73449 AU	morning max ci	1824 Jan 07 08:03	0° √	40 33 19
asc. node	1821 Jun 15 05:46	0°95			1824 Feb 02 13:25	∞ੇਂਟ	
evening rise	1821 Jun 28 15:24	16° © 27'21			1824 Feb 27 19:18	0° ≈	
	1821 Jul 09 16:10	0°N		desc. node	1824 Mar 06 20:31	9° ≈ 41'07	
	1821 Aug 03 03:14	0° m p			1824 Mar 23 15:47	0° ∀	
	1821 Aug 27 15:57	0∘ ⊽			1824 Apr 17 08:22	0° Y	
desc. node	1821 Sep 20 01:22	28° ≏ 27'40			1824 May 11 23:26	0° 8	
	1821 Sep 21 07:50	0° M			1824 Jun 05 13:30	Π °0	
	1821 Oct 16 04:41	0°⊀		morning set	1824 Jun 23 06:14	21° Ⅱ 38'31	
	1821 Nov 10 10:06	0°る		asc. node	1824 Jun 27 23:53	27° Ⅱ 26'41	
	1821 Dec 06 10:36	0°≈	45015110		1824 Jun 30 01:55	0° ©	
evening max el	1821 Dec 28 04:53	23°≈27'09	47°15'12	Fauth diat	1824 Jul 24 11:45	0°Ω	1 72216 ATT
asc. node	1822 Jan 03 18:25 1822 Jan 11 04:39	0° ₩ 6° ₩ 57'18		max. Earth dist.	1824 Jul 26 22:18	3° Ω 00′28	1.73316 AU
greatest brilliancy	1822 Feb 06 16:44	25° H 03'17	-4.9m	superior conj	1824 Jul 29 15:44	6° Ω 22'12	1°05'51
retrograde	1822 Feb 17 02:22	27° H 06'30	-4.7111	minimum elong	1824 Jul 29 07:06	5° Ω 55'34	
evening set	1822 Mar 07 02:16	20°) (49'58		mmmum vieng	1824 Aug 17 18:46	0° m)	1 00 00
min. Earth dist.	1822 Mar 09 12:39	19°) 18′50	0.27870 AU	evening rise	1824 Sep 03 18:27	21° m 02'39	
inferior conj	1822 Mar 10 01:56	18°) 57′53	8°45'57	-	1824 Sep 10 23:49	0∘ ⊽	
minimum elong	1822 Mar 10 03:43	18° ¥ 55′04	8°45'55		1824 Oct 05 04:13	0° M	
morning rise	1822 Mar 13 05:23	17° ∺ 00′33		desc. node	1824 Oct 17 13:14	15° ™ 20'41	
direct	1822 Mar 30 23:07	10°) 59′52			1824 Oct 29 09:03	0° ∡	
greatest brilliancy	1822 Apr 09 02:10	12°) € 32'53	-4.8m		1824 Nov 22 15:14	5°0	
desc. node	1822 May 02 17:51	26°) 54'43			1824 Dec 17 00:40	0° ≈	
mamina may al	1822 May 06 10:44	0° Υ	15057125		1825 Jan 10 18:07	0° ℋ 0°Υ	
morning max el	1822 May 19 02:21 1822 Jun 06 06:49	11° Ƴ 33'37 0° ႘	45°57'35	asc. node	1825 Feb 05 06:22 1825 Feb 07 16:33	0° γ 2° Υ '46'11	
	1822 Jul 00 00:49	0°II		asc. node	1825 Mar 04 16:01	0° 8	
	1822 Jul 29 16:31	0°©		evening max el	1825 Mar 09 14:22	4° 8 59'09	46°16'48
asc. node	1822 Aug 23 21:34	29° 9 56'19		J. J	1825 Apr 08 13:46	0°П	.0 10 10
	1822 Aug 23 22:48	0°N		greatest brilliancy	1825 Apr 17 10:00	4° ∏ 24'54	-4.8m
	1822 Sep 17 15:15	0° m/		retrograde	1825 Apr 28 07:17	6° Ⅱ 35'54	
	1822 Oct 11 21:42	0∘ ⊽		evening set	1825 May 13 18:24	1° Ⅱ 55'34	
	1822 Nov 04 21:52	0° M.			1825 May 17 00:42	30°₹ ႘	
morning set	1822 Nov 12 23:34	10°ML07'45		inferior conj	1825 May 19 16:39	28° 8 20'19	
	1822 Nov 28 18:56	0° ∡		minimum elong	1825 May 19 21:53	28° 8 12'04	2°26'34
desc. node	1822 Dec 13 10:52	18° ₹ 27'16		min. Earth dist.	1825 May 19 17:29	28° 8 19'00	0.28792 AU
	1822 Dec 22 15:00	0°₹		morning rise	1825 May 26 01:36	24° 8 30'21	
gunorier cor:	1922 Dec. 22, 10-20	10=20040	0024120	desc. node	1825 May 30 05:47	22° 8 27'15	
superior conj	1822 Dec 23 19:30	1°る29'40	-U 24 29	direct	1825 Jun 10 03:50	20° 8 05'11	

greatest brilliancy	1825 Jun 20 09:15	21° 8 58'09	-4.7m		1827 Dec 31 13:41	0° ≈	
greatest stillaries	1825 Jul 05 08:55	0°II	,		1828 Jan 24 15:41	0° ∀	
morning max el	1825 Jul 28 22:22	19° Ⅱ 47'42	45°45'02		1828 Feb 17 23:51	0°Υ	
5 5	1825 Aug 08 06:19	0°ಅ		asc. node	1828 Mar 07 04:25	22° Y 03'41	
	1825 Sep 05 01:58	$0^{\circ}\Omega$			1828 Mar 13 19:35	0°8	
asc. node	1825 Sep 20 09:23	17° Ω 33'48			1828 Apr 08 11:37	$\Pi^{\circ}0$	
	1825 Sep 30 23:13	o° mp			1828 May 05 19:19	0 \circ \mathfrak{S}	
	1825 Oct 25 20:14	0° ٽ		evening max el	1828 May 19 07:45	13° © 35'52	45°25'39
	1825 Nov 19 03:45	0°M			1828 Jun 07 01:58	$0^{\circ}\Omega$	
	1825 Dec 13 04:29	0° ∡ ¹		greatest brilliancy	1828 Jun 26 05:31	11° Ω 17'02	-4.7m
	1826 Jan 06 02:35	8°0		desc. node	1828 Jun 26 17:49	11° Ω 28′00	
desc. node	1826 Jan 09 22:46	4° る 49'20		retrograde	1828 Jul 06 21:01	13° Ω 18′27	
morning set	1826 Jan 28 15:50	28° ප 18'07		evening set	1828 Jul 23 00:42	8° Ω 21'59	
	1826 Jan 30 00:20	0° ≈		inferior conj	1828 Jul 28 08:22	5° Ω 08'46	-6°33'15
	1826 Feb 22 23:06	0°) €		minimum elong	1828 Jul 27 22:32	5° Ω 24'09	6°31'23
				min. Earth dist.	1828 Jul 28 08:58	5° Ω 07'50	0.28950 AU
superior conj	1826 Mar 10 13:29	19° ¥ 28'53	-1°25'45	morning rise	1828 Aug 01 20:13	2° Ω 23'44	
minimum elong	1826 Mar 10 15:23	19°) 34′48	1°25'45		1828 Aug 06 07:22	30° ₹	
max. Earth dist.	1826 Mar 14 12:25	24° ℋ 24'45	1.72069 AU	direct	1828 Aug 19 00:00	26° © 52'11	
	1826 Mar 19 00:07	0 ° Υ		greatest brilliancy	1828 Aug 29 14:08	28° © 53'38	-4.8m
	1826 Apr 12 04:30	0°8			1828 Sep 01 07:34	$0^{\circ}\Omega$	
evening rise	1826 Apr 18 20:08	8° 8 12'59		morning max el	1828 Oct 07 13:41	27° Q 59'03	46°16'41
asc. node	1826 May 03 02:11	25° 8 45'59			1828 Oct 09 14:20	0° m/y	
	1826 May 06 12:54	Π $^{\circ}0$		asc. node	1828 Oct 17 21:09	8° m y31'18	
	1826 May 31 01:38	0 \circ \odot			1828 Nov 06 09:54	0∘ ত	
	1826 Jun 24 19:15	$0^{\circ}\Omega$			1828 Dec 02 00:26	0° M	
	1826 Jul 19 19:31	O° Mp			1828 Dec 26 17:28	0° ∡ ″	
	1826 Aug 14 06:13	0∘ 亚			1829 Jan 20 01:24	8°0	
desc. node	1826 Aug 22 15:26	9° ≙ 43'15		desc. node	1829 Feb 06 10:37	21° る 33'06	
	1826 Sep 09 10:45	0° M.			1829 Feb 13 05:59	0° ≈	
	1826 Oct 07 04:19	0° ∡ 7			1829 Mar 09 10:04	0° ∀	
evening max el	1826 Oct 14 08:31	7° ∡ 14'49	46°53'18		1829 Apr 02 15:10	0° Y	
	1826 Nov 09 13:04	o°S		morning set	1829 Apr 13 06:57	13° Y 10'45	
greatest brilliancy	1826 Nov 23 17:51	7° る 43'42	-4.9m		1829 Apr 26 22:02	0°8	
retrograde	1826 Dec 03 15:56	9° ට 35'04					
asc. node	1826 Dec 13 18:49	7° る 28'45		superior conj	1829 May 20 21:02	29° 8 30'18	-0°22'51
evening set	1826 Dec 17 22:54	5° る 29'54		minimum elong	1829 May 21 01:46	29° 8 44'53	0°22'38
min. Earth dist.	1826 Dec 23 17:53	2° る 07'17	0.26439 AU		1829 May 21 06:41	Π $^{\circ}0$	
inferior conj	1826 Dec 24 03:44	1° る 52'17	2°39'50	max. Earth dist.	1829 May 22 03:39	1° Ⅱ 04'28	1.73423 AU
minimum elong	1826 Dec 23 21:50	2° る 01'15	2°38'00	asc. node	1829 May 30 14:08	11° Ⅱ 26'47	
				use. noue	102) May 50 11.00		
	1826 Dec 27 06:21	30°Ŗ ⋌ ¹		use. noue	1829 Jun 14 16:33	0° ©	
morning rise	1826 Dec 27 06:21 1826 Dec 29 21:06	30°R √ 28° √ 31'19		evening rise	•		
direct					1829 Jun 14 16:33	0°ഇ 14°ഇ24′06 0° Л	
Č	1826 Dec 29 21:06	28° ₹31'19 24° ₹15'39 26° ₹03'13	-4.9m		1829 Jun 14 16:33 1829 Jun 26 10:05 1829 Jul 09 03:05 1829 Aug 02 14:24	0°5 14°524'06 0° N 0° M	
direct	1826 Dec 29 21:06 1827 Jan 13 12:47	28° メ 31'19 24° メ 15'39 26° メ 03'13 0°る			1829 Jun 14 16:33 1829 Jun 26 10:05 1829 Jul 09 03:05	0°ഇ 14°ഇ24′06 0° Л	
direct	1826 Dec 29 21:06 1827 Jan 13 12:47 1827 Jan 23 05:06	28° ₹31'19 24° ₹15'39 26° ₹03'13			1829 Jun 14 16:33 1829 Jun 26 10:05 1829 Jul 09 03:05 1829 Aug 02 14:24	0°© 14°©24'06 0°N 0°™ 0°° 27°°	
direct greatest brilliancy morning max el	1826 Dec 29 21:06 1827 Jan 13 12:47 1827 Jan 23 05:06 1827 Jan 31 12:55 1827 Mar 04 18:47 1827 Mar 07 22:30	28°♂31'19 24°♂15'39 26°♂03'13 0°♂ 26°♂49'32 0°≈		evening rise	1829 Jun 14 16:33 1829 Jun 26 10:05 1829 Jul 09 03:05 1829 Aug 02 14:24 1829 Aug 27 03:33 1829 Sep 19 03:20 1829 Sep 20 20:02	0°ട 14°ട്24'06 0° Л 0° സ 0° ച 27° ച 56'47 0° സ	
direct greatest brilliancy	1826 Dec 29 21:06 1827 Jan 13 12:47 1827 Jan 23 05:06 1827 Jan 31 12:55 1827 Mar 04 18:47 1827 Mar 07 22:30 1827 Apr 04 08:15	28° ₹31'19 24° ₹15'39 26° ₹03'13 0° ₹ 26° ₹49'32 0° ≈ 29° ≈28'22		evening rise	1829 Jun 14 16:33 1829 Jun 26 10:05 1829 Jul 09 03:05 1829 Aug 02 14:24 1829 Aug 27 03:33 1829 Sep 19 03:20 1829 Sep 20 20:02 1829 Oct 15 17:46	0°5 14°524'06 0°8 0°1 0°1 0°5 27°56'47 0°1 0°\$	
direct greatest brilliancy morning max el	1826 Dec 29 21:06 1827 Jan 13 12:47 1827 Jan 23 05:06 1827 Jan 31 12:55 1827 Mar 04 18:47 1827 Mar 07 22:30 1827 Apr 04 08:15 1827 Apr 04 19:33	28°水31'19 24°水15'39 26°水03'13 0°♂ 26°♂49'32 0°≈ 29°≈28'22 0°米		evening rise	1829 Jun 14 16:33 1829 Jun 26 10:05 1829 Jul 09 03:05 1829 Aug 02 14:24 1829 Aug 27 03:33 1829 Sep 19 03:20 1829 Sep 20 20:02 1829 Oct 15 17:46 1829 Nov 10 00:36	0°೯ 14°೯24'06 0°Д 0°Щ 0°Д 27°Д56'47 0°Щ 0°Х 0°С	
direct greatest brilliancy morning max el	1826 Dec 29 21:06 1827 Jan 13 12:47 1827 Jan 23 05:06 1827 Jan 31 12:55 1827 Mar 04 18:47 1827 Mar 07 22:30 1827 Apr 04 08:15 1827 Apr 04 19:33 1827 May 01 00:53	28° ₹31'19 24° ₹15'39 26° ₹03'13 0° ₹ 26° ₹49'32 0° ≈ 29° ≈28'22 0° ¥ 0° Ŷ		evening rise desc. node	1829 Jun 14 16:33 1829 Jun 26 10:05 1829 Jul 09 03:05 1829 Aug 02 14:24 1829 Aug 27 03:33 1829 Sep 19 03:20 1829 Sep 20 20:02 1829 Oct 15 17:46 1829 Nov 10 00:36 1829 Dec 06 03:53	0°\$\text{14°\$\text{24'06}} 0°\$\alpha\$ 0°\$\text{m} 0°\$\text{m} 27°\$\text{\$\sigma_56'47} 0°\$\text{m}\$ 0°\$\text{\$\sigma_0\$} 0°\$\text{\$\sigma_0\$} 0°\$\text{\$\sigma_0\$}	
direct greatest brilliancy morning max el	1826 Dec 29 21:06 1827 Jan 13 12:47 1827 Jan 23 05:06 1827 Jan 31 12:55 1827 Mar 04 18:47 1827 Mar 07 22:30 1827 Apr 04 08:15 1827 Apr 04 19:33 1827 May 01 00:53 1827 May 26 14:02	28° ₹31'19 24° ₹15'39 26° ₹03'13 0° ₹ 26° ₹49'32 0° ≈ 29° ≈28'22 0° ¥ 0° Ŷ 0° \$		evening rise	1829 Jun 14 16:33 1829 Jun 26 10:05 1829 Jul 09 03:05 1829 Aug 02 14:24 1829 Aug 27 03:33 1829 Sep 19 03:20 1829 Sep 20 20:02 1829 Oct 15 17:46 1829 Nov 10 00:36 1829 Dec 06 03:53 1829 Dec 25 18:27	0°\$\text{14°\$\text{24'06}} 0°\$\alpha\$ 0°\$\text{m} 0°\$\text{m} 27°\$\text{\$\text{\$\sigma}\$}56'47 0°\$\text{m} 0°\$\text{\$\sigma} 0°\$\text{\$\sigma} 0°\$\text{\$\sigma} 21°\$\approx\$02'24	47°16'12
direct greatest brilliancy morning max el	1826 Dec 29 21:06 1827 Jan 13 12:47 1827 Jan 23 05:06 1827 Jan 31 12:55 1827 Mar 04 18:47 1827 Mar 07 22:30 1827 Apr 04 08:15 1827 Apr 04 19:33 1827 May 01 00:53 1827 May 26 14:02 1827 Jun 20 18:21	28°♂31'19 24°♂15'39 26°♂03'13 0°♂ 26°♂49'32 0°≈ 29°≈28'22 0°升 0°Y 0°B 0°I		evening rise desc. node evening max el	1829 Jun 14 16:33 1829 Jun 26 10:05 1829 Jul 09 03:05 1829 Aug 02 14:24 1829 Aug 27 03:33 1829 Sep 19 03:20 1829 Sep 20 20:02 1829 Oct 15 17:46 1829 Dec 06 03:53 1829 Dec 25 18:27 1830 Jan 03 20:04	0°ട്ടെ 14°ട്ട24'06 0°റ്റ 0°ന്റ 0°മ 27°മ56'47 0°സ 0°ഗ 0°ഗ 21°≈02'24 0°)	47°16'12
direct greatest brilliancy morning max el desc. node	1826 Dec 29 21:06 1827 Jan 13 12:47 1827 Jan 23 05:06 1827 Jan 31 12:55 1827 Mar 04 18:47 1827 Mar 07 22:30 1827 Apr 04 08:15 1827 Apr 04 19:33 1827 May 01 00:53 1827 May 26 14:02 1827 Jun 20 18:21 1827 Jul 15 15:43	28°♂31'19 24°♂15'39 26°♂03'13 0°♂ 26°♂49'32 0°≈ 29°≈28'22 0°∀ 0°Y 0°B 0°I 0°©		evening rise desc. node evening max el asc. node	1829 Jun 14 16:33 1829 Jun 26 10:05 1829 Jul 09 03:05 1829 Aug 02 14:24 1829 Aug 27 03:33 1829 Sep 19 03:20 1829 Sep 20 20:02 1829 Oct 15 17:46 1829 Dec 06 03:53 1829 Dec 25 18:27 1830 Jan 03 20:04 1830 Jan 10 06:47	0°ട 14°ട്24'06 0°റ 0°സ 0°ട 27°മ56'47 0°ട 0°ട 0°ട 21°≈02'24 0°∺ 5°∺54'50	
direct greatest brilliancy morning max el	1826 Dec 29 21:06 1827 Jan 13 12:47 1827 Jan 23 05:06 1827 Jan 31 12:55 1827 Mar 04 18:47 1827 Mar 07 22:30 1827 Apr 04 08:15 1827 Apr 04 19:33 1827 May 01 00:53 1827 May 26 14:02 1827 Jun 20 18:21 1827 Jul 15 15:43 1827 Jul 26 11:44	28° 水31'19 24° 水15'39 26° 水03'13 0° 云 26° 云49'32 0° 無 29° ≈28'22 0° 米 0° Y 0° 以 0° 以 0° 以 13° © 10'05		evening rise desc. node evening max el asc. node greatest brilliancy	1829 Jun 14 16:33 1829 Jun 26 10:05 1829 Jul 09 03:05 1829 Aug 02 14:24 1829 Aug 27 03:33 1829 Sep 19 03:20 1829 Sep 20 20:02 1829 Oct 15 17:46 1829 Dec 06 03:53 1829 Dec 06 03:53 1829 Dec 25 18:27 1830 Jan 03 20:04 1830 Jan 10 06:47 1830 Feb 04 08:41	0°\$ 14°\$24'06 0°\$ 0°\$ 0°\$ 27°\$56'47 0°\$ 0°\$ 21°\$02'24 0°\$ 5°\$54'50 22°\$44'15	
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direct greatest brilliancy morning max el desc. node	1826 Dec 29 21:06 1827 Jan 13 12:47 1827 Jan 23 05:06 1827 Jan 31 12:55 1827 Mar 04 18:47 1827 Mar 07 22:30 1827 Apr 04 08:15 1827 Apr 04 19:33 1827 May 01 00:53 1827 May 26 14:02 1827 Jun 20 18:21 1827 Jul 15 15:43 1827 Jul 26 11:44 1827 Aug 09 06:16 1827 Aug 31 06:06	28°♂31'19 24°♂15'39 26°♂03'13 0°♂ 26°♂49'32 0°≈ 29°≈28'22 0°升 0°Y 0°B 0°B 13°©10'05 0°Ω 27°Ω05'56		evening rise desc. node evening max el asc. node greatest brilliancy retrograde evening set	1829 Jun 14 16:33 1829 Jun 26 10:05 1829 Jul 09 03:05 1829 Aug 02 14:24 1829 Aug 27 03:33 1829 Sep 19 03:20 1829 Sep 20 20:02 1829 Oct 15 17:46 1829 Nov 10 00:36 1829 Dec 06 03:53 1829 Dec 25 18:27 1830 Jan 03 20:04 1830 Jan 10 06:47 1830 Feb 04 08:41 1830 Feb 14 16:58 1830 Mar 04 17:07	0°\$\text{14°\$\text{24'06}} 0°\$\mathcal{\Omega} 0°\$\text{m} 0°\$\text{n} 27°\$\text{\$\sigma}56'47\$ 0°\$\text{m} 0°\$\text{\$\sigma} 0°\$\text{\$\sigma} 21°\$\text{\$\sigma}02'24\$ 0°\$\text{\$\sigma} 5°\$\text{\$\sigma}54'50\$ 22°\$\text{\$\text{\$\chi}44'15} 24°\$\text{\$\chi}46'46\$ 18°\$\text{\$\chi}30'44	-4.9m
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direct greatest brilliancy morning max el desc. node asc. node morning set	1826 Dec 29 21:06 1827 Jan 13 12:47 1827 Jan 23 05:06 1827 Jan 31 12:55 1827 Mar 04 18:47 1827 Mar 07 22:30 1827 Apr 04 08:15 1827 Apr 04 19:33 1827 May 01 00:53 1827 May 26 14:02 1827 Jun 20 18:21 1827 Jul 15 15:43 1827 Jul 26 11:44 1827 Aug 09 06:16 1827 Aug 31 06:06 1827 Sep 02 14:21 1827 Sep 26 17:22	28°水31'19 24°水15'39 26°水03'13 0°石 26°石49'32 0°※ 29°※28'22 0°升 0°円 0°回 13°回10'05 0°凡 27°ん05'56 0°順	46°42'05	evening rise desc. node evening max el asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj	1829 Jun 14 16:33 1829 Jun 26 10:05 1829 Jul 09 03:05 1829 Aug 02 14:24 1829 Aug 27 03:33 1829 Sep 19 03:20 1829 Sep 20 20:02 1829 Oct 15 17:46 1829 Nov 10 00:36 1829 Dec 06 03:53 1829 Dec 25 18:27 1830 Jan 03 20:04 1830 Jan 10 06:47 1830 Feb 04 08:41 1830 Feb 14 16:58 1830 Mar 04 17:07 1830 Mar 07 02:53 1830 Mar 07 16:41	0°\$\text{14°\$\text{24'06}} 0°\$\mathcal{U}\$ 0°\$\mathcal{U}\$ 0°\$\mathcal{U}\$ 0°\$\mathcal{U}\$ 0°\$\mathcal{U}\$ 0°\$\mathcal{U}\$ 0°\$\mathcal{U}\$ 0°\$\mathcal{U}\$ 21°\$\infty\$02'24 0°\$\mathcal{U}\$ 5°\$\mathcal{U}\$54'50 22°\$\mathcal{U}\$44'15 24°\$\mathcal{U}\$46'46 18°\$\mathcal{U}\$30'44 17°\$\mathcal{U}\$00'41 16°\$\mathcal{U}\$38'56	-4.9m 0.27818 AU 8°47'55
direct greatest brilliancy morning max el desc. node	1826 Dec 29 21:06 1827 Jan 13 12:47 1827 Jan 23 05:06 1827 Jan 31 12:55 1827 Mar 04 18:47 1827 Mar 07 22:30 1827 Apr 04 08:15 1827 Apr 04 19:33 1827 May 01 00:53 1827 May 26 14:02 1827 Jun 20 18:21 1827 Jul 15 15:43 1827 Jul 26 11:44 1827 Aug 09 06:16 1827 Aug 31 06:06 1827 Sep 02 14:21	28°水31'19 24°水15'39 26°水03'13 0°云 26°云49'32 0°≈ 29°≈28'22 0°升 0°Y 0°B 0°B 13°©10'05 0°Ω 27°Ω05'56 0°™		evening rise desc. node evening max el asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong	1829 Jun 14 16:33 1829 Jun 26 10:05 1829 Jul 09 03:05 1829 Aug 02 14:24 1829 Aug 27 03:33 1829 Sep 19 03:20 1829 Sep 20 20:02 1829 Oct 15 17:46 1829 Nov 10 00:36 1829 Dec 06 03:53 1829 Dec 25 18:27 1830 Jan 03 20:04 1830 Jan 10 06:47 1830 Feb 14 16:58 1830 Mar 04 17:07 1830 Mar 07 02:53 1830 Mar 07 16:41 1830 Mar 07 17:37	0°5 14°524'06 0°8 0°か 0°か 27°56'47 0°™ 0°≈ 21°≈02'24 0°₩ 5°¥54'50 22°¥44'15 24°¥46'46 18°¥30'44 17°¥00'41 16°¥38'56 16°¥37'28	-4.9m 0.27818 AU
direct greatest brilliancy morning max el desc. node asc. node morning set max. Earth dist.	1826 Dec 29 21:06 1827 Jan 13 12:47 1827 Jan 23 05:06 1827 Jan 31 12:55 1827 Mar 04 18:47 1827 Mar 07 22:30 1827 Apr 04 08:15 1827 Apr 04 19:33 1827 May 01 00:53 1827 May 26 14:02 1827 Jun 20 18:21 1827 Jul 15 15:43 1827 Jul 26 11:44 1827 Aug 09 06:16 1827 Aug 31 06:06 1827 Sep 02 14:21 1827 Sep 26 17:22 1827 Oct 04 08:00	28°水31'19 24°水15'39 26°水03'13 0°♂ 26°♂49'32 0°≈ 29°≈28'22 0°升 0°野 13°©10'05 0°凡 27°凡05'56 0°順 0°亞 9°亞29'58	46°42'05 1.71952 AU	evening rise desc. node evening max el asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	1829 Jun 14 16:33 1829 Jun 26 10:05 1829 Jul 09 03:05 1829 Aug 02 14:24 1829 Aug 27 03:33 1829 Sep 19 03:20 1829 Sep 20 20:02 1829 Oct 15 17:46 1829 Nov 10 00:36 1829 Dec 06 03:53 1829 Dec 25 18:27 1830 Jan 03 20:04 1830 Jan 10 06:47 1830 Feb 04 08:41 1830 Feb 14 16:58 1830 Mar 04 17:07 1830 Mar 07 02:53 1830 Mar 07 16:41 1830 Mar 07 17:37 1830 Mar 10 18:19	0°5 14°524'06 0°8 0°か 0°5 27°56'47 0°™ 0°₹ 0°≈ 21°≈02'24 0°¥ 5°¥54'50 22°¥44'15 24°¥46'46 18°¥30'44 17°¥00'41 16°¥38'56 16°¥37'28 14°¥44'23	-4.9m 0.27818 AU 8°47'55
direct greatest brilliancy morning max el desc. node asc. node morning set max. Earth dist. superior conj	1826 Dec 29 21:06 1827 Jan 13 12:47 1827 Jan 23 05:06 1827 Jan 31 12:55 1827 Mar 04 18:47 1827 Mar 07 22:30 1827 Apr 04 08:15 1827 Apr 04 19:33 1827 May 01 00:53 1827 May 26 14:02 1827 Jun 20 18:21 1827 Jul 15 15:43 1827 Jul 26 11:44 1827 Aug 09 06:16 1827 Aug 31 06:06 1827 Sep 02 14:21 1827 Sep 26 17:22 1827 Oct 04 08:00	28° ₹31'19 24° ₹15'39 26° ₹03'13 0° ₹ 26° ₹49'32 0° ≈ 29° ≈28'22 0° ¥ 0° ¥ 0° ¥ 0° \$ 13° \$\\$10'05 0° \$\\$0\$ 27° \$\\$05'56 0° \$\\$0\$ 9° \$\\$\\$29'58	46°42'05 1.71952 AU 1°15'13	evening rise desc. node evening max el asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	1829 Jun 14 16:33 1829 Jun 26 10:05 1829 Jul 09 03:05 1829 Aug 02 14:24 1829 Aug 27 03:33 1829 Sep 19 03:20 1829 Sep 20 20:02 1829 Oct 15 17:46 1829 Nov 10 00:36 1829 Dec 06 03:53 1829 Dec 25 18:27 1830 Jan 03 20:04 1830 Jan 10 06:47 1830 Feb 04 08:41 1830 Feb 14 16:58 1830 Mar 04 17:07 1830 Mar 07 02:53 1830 Mar 07 16:41 1830 Mar 07 17:37 1830 Mar 10 18:19 1830 Mar 28 12:38	0°50 14°524'06 0°10 0°10 0°10 0°10 0°10 0°27 0°37 0°37 0°37 0°37 0°38 21°3802'24 0°37 5°3754'50 22°3744'15 24°3744 17°3728 14°3728 14°37441'38	-4.9m 0.27818 AU 8°47'55 8°47'54
direct greatest brilliancy morning max el desc. node asc. node morning set max. Earth dist.	1826 Dec 29 21:06 1827 Jan 13 12:47 1827 Jan 23 05:06 1827 Jan 31 12:55 1827 Mar 04 18:47 1827 Mar 07 22:30 1827 Apr 04 08:15 1827 Apr 04 19:33 1827 May 01 00:53 1827 May 26 14:02 1827 Jun 20 18:21 1827 Jul 15 15:43 1827 Jul 26 11:44 1827 Aug 09 06:16 1827 Aug 31 06:06 1827 Sep 02 14:21 1827 Oct 07 10:28 1827 Oct 07 10:28 1827 Oct 07 10:28	28° 水31'19 24° 水15'39 26° 水03'13 0° 云 26° 云49'32 0° ※ 29° ※28'22 0° 米 0° Y 0° B 0° II 0° © 13° © 10'05 0° A 27° 凡05'56 0° M 0° Ω 9° Ω 29'58 13° Ω 22'35 13° Ω 48'20	46°42'05 1.71952 AU	evening rise desc. node evening max el asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	1829 Jun 14 16:33 1829 Jun 26 10:05 1829 Jul 09 03:05 1829 Aug 02 14:24 1829 Aug 27 03:33 1829 Sep 19 03:20 1829 Sep 20 20:02 1829 Oct 15 17:46 1829 Nov 10 00:36 1829 Dec 06 03:53 1829 Dec 25 18:27 1830 Jan 03 20:04 1830 Jan 10 06:47 1830 Feb 04 08:41 1830 Feb 14 16:58 1830 Mar 04 17:07 1830 Mar 07 02:53 1830 Mar 07 16:41 1830 Mar 07 17:37 1830 Mar 10 18:19 1830 Mar 28 12:38 1830 Apr 06 16:08	0°50 14°524'06 0°10 0°10 0°10 0°10 0°10 0°20 27°56'47 0°10 0°20 21°202'24 0°30 22°302'24 0°30 22°302'24 17°30'44 17°30'44 17°30'44 16°338'56 16°337'28 14°344'23 8°344'38 10°314'45	-4.9m 0.27818 AU 8°47'55 8°47'54
direct greatest brilliancy morning max el desc. node asc. node morning set max. Earth dist. superior conj	1826 Dec 29 21:06 1827 Jan 13 12:47 1827 Jan 23 05:06 1827 Jan 31 12:55 1827 Mar 04 18:47 1827 Mar 07 22:30 1827 Apr 04 08:15 1827 Apr 04 19:33 1827 May 01 00:53 1827 May 26 14:02 1827 Jun 20 18:21 1827 Jul 15 15:43 1827 Jul 26 11:44 1827 Aug 09 06:16 1827 Aug 31 06:06 1827 Sep 02 14:21 1827 Sep 02 14:21 1827 Oct 07 10:28 1827 Oct 07 10:28 1827 Oct 07 18:43 1827 Oct 20 17:21	28° 水31'19 24° 水15'39 26° 水03'13 0° 云 26° 云49'32 0° ※ 29° ※28'22 0° ϒ 0° ϒ 0° ϒ 0° ϒ 0° Ω 27° Ω05'56 0° № 0° Ω 9° Ω29'58 13° Ω22'35 13° Ω48'20 0° Ⅲ	46°42'05 1.71952 AU 1°15'13	evening rise desc. node evening max el asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	1829 Jun 14 16:33 1829 Jun 26 10:05 1829 Jul 09 03:05 1829 Aug 02 14:24 1829 Aug 27 03:33 1829 Sep 19 03:20 1829 Sep 20 20:02 1829 Oct 15 17:46 1829 Nov 10 00:36 1829 Dec 06 03:53 1829 Dec 25 18:27 1830 Jan 03 20:04 1830 Jan 10 06:47 1830 Feb 04 08:41 1830 Feb 14 16:58 1830 Mar 04 17:07 1830 Mar 07 02:53 1830 Mar 07 16:41 1830 Mar 07 16:41 1830 Mar 07 17:37 1830 Mar 10 18:19 1830 Mar 28 12:38 1830 Apr 06 16:08 1830 May 01 20:01	0°50 14°524'06 0°10 0°10 0°10 0°10 0°20 27°2056'47 0°10 0°27 0°37 0°37 0°38 21°3802'24 0°37 5°3454'50 22°344'15 24°346'46 18°38'56 16°38'56 16°38'56 16°38'58 11°38 10°38'14'45 25°38'51'28	-4.9m 0.27818 AU 8°47'55 8°47'54
direct greatest brilliancy morning max el desc. node asc. node morning set max. Earth dist. superior conj minimum elong	1826 Dec 29 21:06 1827 Jan 13 12:47 1827 Jan 23 05:06 1827 Jan 31 12:55 1827 Mar 04 18:47 1827 Mar 07 22:30 1827 Apr 04 08:15 1827 Apr 04 19:33 1827 May 01 00:53 1827 May 26 14:02 1827 Jun 20 18:21 1827 Jul 15 15:43 1827 Jul 26 11:44 1827 Aug 09 06:16 1827 Aug 31 06:06 1827 Sep 02 14:21 1827 Sep 02 14:21 1827 Oct 07 10:28 1827 Oct 07 10:28 1827 Oct 07 18:43 1827 Oct 20 17:21 1827 Nov 13 16:01	28° 水31'19 24° 水15'39 26° 水03'13 0° 云 26° 云49'32 0° ※ 29° ※28'22 0° 米 0° Y 0° S 13° 510'05 0° Ω 27° Ω05'56 0° № 0° 5 9° 529'58 13° 52'35 13° 54'8'20 0° № 0° ズ	46°42'05 1.71952 AU 1°15'13	evening rise desc. node evening max el asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy desc. node	1829 Jun 14 16:33 1829 Jun 26 10:05 1829 Jul 09 03:05 1829 Aug 02 14:24 1829 Aug 27 03:33 1829 Sep 19 03:20 1829 Sep 20 20:02 1829 Oct 15 17:46 1829 Nov 10 00:36 1829 Dec 06 03:53 1829 Dec 25 18:27 1830 Jan 03 20:04 1830 Jan 10 06:47 1830 Feb 04 08:41 1830 Feb 14 16:58 1830 Mar 04 17:07 1830 Mar 07 02:53 1830 Mar 07 16:41 1830 Mar 07 16:41 1830 Mar 10 18:19 1830 Mar 10 18:19 1830 Mar 28 12:38 1830 Apr 06 16:08 1830 May 01 20:01 1830 May 06 15:59	0°\$\text{14°\$\text{24'06}} 0°\$\alpha\$ 0°\$\text{0}\$ 0°\$\text{0}\$ 0°\$\text{0}\$ 0°\$\text{0}\$ 0°\$\text{0}\$ 0°\$\text{0}\$ 0°\$\text{0}\$ 0°\$\text{21}\$ 0°\$\text{5}\$ 5°\$\text{54'50}\$ 22°\$\text{44'15}\$ 24°\$\text{46'46}\$ 18°\$\text{33'44}\$ 17°\$\text{40'41}\$ 16°\$\text{38'56}\$ 16°\$\text{33'28}\$ 14°\$\text{44'23}\$ 8°\$\text{44'138}\$ 10°\$\text{14'45}\$ 25°\$\text{55'128}\$ 0°\$\text{7}\$	-4.9m 0.27818 AU 8°47'55 8°47'54 -4.8m
direct greatest brilliancy morning max el desc. node asc. node morning set max. Earth dist. superior conj minimum elong desc. node	1826 Dec 29 21:06 1827 Jan 13 12:47 1827 Jan 23 05:06 1827 Jan 31 12:55 1827 Mar 04 18:47 1827 Mar 07 22:30 1827 Apr 04 08:15 1827 Apr 04 19:33 1827 May 01 00:53 1827 May 26 14:02 1827 Jun 20 18:21 1827 Jul 15 15:43 1827 Jul 26 11:44 1827 Aug 09 06:16 1827 Aug 31 06:06 1827 Sep 02 14:21 1827 Sep 26 17:22 1827 Oct 04 08:00 1827 Oct 07 10:28 1827 Oct 07 18:43 1827 Oct 20 17:21 1827 Nov 13 16:01 1827 Nov 15 01:08	28° 水31'19 24° 水15'39 26° 水03'13 0° 云 26° 云49'32 0° ※ 29° ※28'22 0° 米 0° Y 0° S 13° © 10'05 0° Ω 27° Ω05'56 0° № 0° Ω 9° Ω29'58 13° Ω29'58 13° Ω48'20 0° № 0° № 1° № 1° № 1° № 1° № 1° № 1° №	46°42'05 1.71952 AU 1°15'13	evening rise desc. node evening max el asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	1829 Jun 14 16:33 1829 Jun 26 10:05 1829 Jul 09 03:05 1829 Aug 02 14:24 1829 Aug 27 03:33 1829 Sep 19 03:20 1829 Sep 20 20:02 1829 Oct 15 17:46 1829 Nov 10 00:36 1829 Dec 06 03:53 1829 Dec 25 18:27 1830 Jan 03 20:04 1830 Jan 10 06:47 1830 Feb 04 08:41 1830 Feb 04 08:41 1830 Feb 14 16:58 1830 Mar 04 17:07 1830 Mar 07 02:53 1830 Mar 07 16:41 1830 Mar 07 16:41 1830 Mar 07 17:37 1830 Mar 10 18:19 1830 Mar 28 12:38 1830 May 01 20:01 1830 May 06 15:59 1830 May 16 16:18	0°\$\text{06} 0°\$\alpha\$ 0°\$\text{00}\$ 0°\$\text{00}\$ 0°\$\text{00}\$ 0°\$\text{00}\$ 0°\$\text{00}\$ 0°\$\text{00}\$ 0°\$\text{00}\$ 0°\$\text{00}\$ 0°\$\text{00}\$ 21°\$\text{00}2'24 0°\$\text{00}\$ 5°\$\text{54'50} 22°\$\text{44'15} 24°\$\text{46'46} 18°\$\text{30'44} 17°\$\text{00'41} 16°\$\text{38'56} 16°\$\text{37'28} 14°\$\text{44'23} 8°\$\text{44'23} 8°\$\text{44'138} 10°\$\text{14'45} 25°\$\text{55'128} 0°\$\text{00}\$	-4.9m 0.27818 AU 8°47'55 8°47'54 -4.8m
direct greatest brilliancy morning max el desc. node asc. node morning set max. Earth dist. superior conj minimum elong	1826 Dec 29 21:06 1827 Jan 13 12:47 1827 Jan 23 05:06 1827 Jan 31 12:55 1827 Mar 04 18:47 1827 Mar 07 22:30 1827 Apr 04 08:15 1827 Apr 04 19:33 1827 May 01 00:53 1827 May 26 14:02 1827 Jun 20 18:21 1827 Jul 15 15:43 1827 Jul 26 11:44 1827 Aug 09 06:16 1827 Aug 31 06:06 1827 Sep 02 14:21 1827 Sep 02 14:21 1827 Oct 07 10:28 1827 Oct 07 10:28 1827 Oct 07 18:43 1827 Oct 20 17:21 1827 Nov 13 16:01	28° 水31'19 24° 水15'39 26° 水03'13 0° 云 26° 云49'32 0° ※ 29° ※28'22 0° 米 0° Y 0° S 13° 510'05 0° Ω 27° Ω05'56 0° № 0° 5 9° 529'58 13° 52'35 13° 54'8'20 0° № 0° ズ	46°42'05 1.71952 AU 1°15'13	evening rise desc. node evening max el asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy desc. node	1829 Jun 14 16:33 1829 Jun 26 10:05 1829 Jul 09 03:05 1829 Aug 02 14:24 1829 Aug 27 03:33 1829 Sep 19 03:20 1829 Sep 20 20:02 1829 Oct 15 17:46 1829 Nov 10 00:36 1829 Dec 06 03:53 1829 Dec 25 18:27 1830 Jan 03 20:04 1830 Jan 10 06:47 1830 Feb 04 08:41 1830 Feb 14 16:58 1830 Mar 04 17:07 1830 Mar 07 02:53 1830 Mar 07 16:41 1830 Mar 07 16:41 1830 Mar 10 18:19 1830 Mar 10 18:19 1830 Mar 28 12:38 1830 Apr 06 16:08 1830 May 01 20:01 1830 May 06 15:59	0°\$\text{14°\$\text{24'06}} 0°\$\alpha\$ 0°\$\text{0}\$ 0°\$\text{0}\$ 0°\$\text{0}\$ 0°\$\text{0}\$ 0°\$\text{0}\$ 0°\$\text{0}\$ 0°\$\text{0}\$ 0°\$\text{21}\$ 0°\$\text{5}\$ 5°\$\text{54'50}\$ 22°\$\text{44'15}\$ 24°\$\text{46'46}\$ 18°\$\text{33'44}\$ 17°\$\text{40'41}\$ 16°\$\text{38'56}\$ 16°\$\text{33'28}\$ 14°\$\text{44'23}\$ 8°\$\text{44'138}\$ 10°\$\text{14'45}\$ 25°\$\text{55'128}\$ 0°\$\text{7}\$	-4.9m 0.27818 AU 8°47'55 8°47'54 -4.8m

	1830 Jul 29 05:09	0°ಅ		evening max el	1833 Mar 07 06:41	2° 8 46'02	46°19'24
asc. node	1830 Aug 22 23:33	29° 5 26'42		C	1833 Apr 10 03:20	$\Pi^{\circ}0$	
	1830 Aug 23 10:38	$0^{\circ}\Omega$		greatest brilliancy	1833 Apr 15 02:32	2° Ⅱ 14'21	-4.8m
	1830 Sep 17 02:40	0° m y		retrograde	1833 Apr 26 00:31	4° Ⅱ 25'38	
	1830 Oct 11 08:55	0 o $\overline{\mathbf{v}}$			1833 May 11 00:19	30°₽ ႘	
	1830 Nov 04 09:01	0° M.		evening set	1833 May 11 12:43	29° 8 42'43	
morning set	1830 Nov 10 12:06	7° M 41'24		inferior conj	1833 May 17 09:00	26° 8 09'54	2°47'09
	1830 Nov 28 06:04	0°⊀		minimum elong	1833 May 17 14:51	26° 8 00'43	2°45'31
desc. node	1830 Dec 12 13:00	17° ∡ 758'49		min. Earth dist.	1833 May 17 09:29	26° 8 09'09	0.28772 AU
				morning rise	1833 May 23 17:19	22° 8 21'04	
superior conj	1830 Dec 21 05:17	28° ₰ 54'17	-0°20'36	desc. node	1833 May 29 07:51	19° 8 43'34	
minimum elong	1830 Dec 20 23:51	28° ∡ ³37'13		direct	1833 Jun 07 20:19	17° 8 55'14	
max. Earth dist.	1830 Dec 21 15:58	29° ₹ 27'54	1.71063 AU	greatest brilliancy	1833 Jun 18 00:01	19° 8 47'09	-4.7m
	1830 Dec 22 02:10	0°る			1833 Jul 06 01:33	0°Щ	
	1831 Jan 14 22:36	0° ≈		morning max el	1833 Jul 26 15:10	17° Ⅱ 39'50	45°44'33
evening rise	1831 Jan 31 16:37	21°≈01'29			1833 Aug 08 01:13	0°99	
	1831 Feb 07 20:36	0°) €		_	1833 Sep 04 16:38	0 ° Ω	
	1831 Mar 03 21:55	0° Υ		asc. node	1833 Sep 19 11:26	17° Ω 00'17	
	1831 Mar 28 04:45	0° 8			1833 Sep 30 12:12	0° my	
asc. node	1831 Apr 04 16:23	9° 8 10'06			1833 Oct 25 08:26	0∘ 亚	
	1831 Apr 21 19:34	0° Ⅱ			1833 Nov 18 15:31	0°M.	
	1831 May 16 21:25	0° ©			1833 Dec 12 16:02	0° ⊼	
	1831 Jun 11 15:54	0° N		4 4-	1834 Jan 05 13:59 1834 Jan 09 00:46	0°궁 4°궁19'52	
desc. node	1831 Jul 08 16:37 1831 Jul 25 05:39	0° Т р 17° Тр 05'57		desc. node morning set	1834 Jan 26 01:33	4°619'32 25° る 42'39	
evening max el	1831 Jul 30 14:36	22° Mg 19'50	45°43'12	morning set	1834 Jan 29 11:37	23 O 42 39 0° ≈	
evening max er	1831 Aug 07 21:53	0° ⊡	45 45 12		1834 Feb 22 10:17	0 ∞ 0° ∺	
greatest brilliancy	1831 Sep 08 10:46	0 = 20° £ 47'18	-4.8m		16541'00 22 10.17	0 /	
retrograde	1831 Sep 17 13:31	20° - 47 18 22° - 18′27	- 4 .0111	superior conj	1834 Mar 08 01:43	17° ¥ 02'34	-1°26'01
evening set	1831 Oct 04 20:03	16° Ω 42'42		minimum elong	1834 Mar 08 02:39	17° ₩ 05'27	
inferior conj	1831 Oct 08 12:47	14° ⊆ 29'20	-7°46'42	max. Earth dist.	1834 Mar 12 02:13	22°) 03'25	1.72015 AU
minimum elong	1831 Oct 08 21:36	14° Ω 15'50	7°45'27	max. Earth dist.	1834 Mar 18 11:15	0°Υ	1.,2015 110
min. Earth dist.	1831 Oct 09 11:26	13° £ 54'41	0.27648 AU		1834 Apr 11 15:36	0°8	
morning rise	1831 Oct 12 22:45	11° ≏ 50'04		evening rise	1834 Apr 16 10:57	5° 8 56'22	
direct	1831 Oct 29 12:59	6° £ 30'02		asc. node	1834 May 02 04:23	25° 8 18'32	
greatest brilliancy	1831 Nov 09 18:29	8° ≏ 51'18	-4.9m		1834 May 06 00:03	0°II	
asc. node	1831 Nov 15 09:01	11° ≏ 32'01			1834 May 30 12:55	0 \circ \odot	
	1831 Dec 09 05:52	0°M			1834 Jun 24 06:54	0 $^{\circ}\Omega$	
morning max el	1831 Dec 19 07:03	9°M51'02	46°54'41		1834 Jul 19 07:53	0° ™	
	1832 Jan 07 02:03	0° ∡			1834 Aug 13 19:51	0∘ ⊽	
	1832 Feb 02 04:15	0°రె		desc. node	1834 Aug 21 17:22	9° ჲ 07'59	
	1832 Feb 27 08:36	0°≈			1834 Sep 09 02:44	0° M	
desc. node	1832 Mar 05 22:24	9° ≈ 07'46			1834 Oct 07 01:56	0° ∡ ¹	
	1832 Mar 23 04:09	0° ∀		evening max el	1834 Oct 11 22:50	4° ∡ ¹52'52	46°50'58
	1832 Apr 16 20:06	0° Υ			1834 Nov 10 19:14	0°ಕ	
	1832 May 11 10:44	0°B		greatest brilliancy	1834 Nov 21 07:17	5° る 14'59	-4.9m
	1832 Jun 05 00:31	0°П		retrograde	1834 Dec 01 04:10	7° る 04'39	
morning set	1832 Jun 21 00:35	19° Ⅱ 34'17		asc. node	1834 Dec 12 20:54	4° る 17'59	
asc. node	1832 Jun 27 01:58	26° ∏ 59'36		evening set	1834 Dec 15 10:30	3° る 01'16	
	1832 Jun 29 12:48	0° ©			1834 Dec 20 15:30	30°₹ ⋌ ¹	2017100
may Earth dist	1832 Jul 23 22:37	0° Ω	1.73349 AU	inferior conj	1834 Dec 21 15:53 1834 Dec 21 10:49	29° ₹ 22'47 29° ₹ 30'32	
max. Earth dist.	1832 Jul 24 20:58	1 8608 31	1./3349 AU	minimum elong min. Earth dist.	1834 Dec 21 10.49	29 x 30 32 29° x 35'32	
gunariar aani	1832 Jul 27 10:13	4° Ω 17'40	1°03'50	morning rise	1834 Dec 27 11:24	25° x 58'42	0.20420 AU
superior conj minimum elong	1832 Jul 27 10:13		1°03'32	direct	1835 Jan 11 01:10	23 x 36 42 21° x 46'28	
minimum ciong	1832 Aug 17 05:42	0° Mp	1 03 32	greatest brilliancy	1835 Jan 20 18:46	23° x ⁷ 34'57	-4 9m
evening rise	1832 Sep 01 11:39	18° mp 52'59		greatest orimaney	1835 Feb 02 00:44	0° る	4.7111
- ,g 1100	1832 Sep 01 11:59	ე∘ <u>ი</u>		morning max el	1835 Nar 02 07:16	24°る22'30	46°43'16
	1832 Oct 04 15:33	0°M		mun or	1835 Mar 07 20:20	0°≈	.0 .5 10
desc. node	1832 Oct 16 15:18	14°M51'27		desc. node	1835 Apr 03 10:23	28° ≈ 48'55	
	1832 Oct 28 20:44	0° √			1835 Apr 04 11:40	0° ∀	
	1832 Nov 22 03:22	°ਨ ਨ			1835 Apr 30 14:41	0° Υ	
	1832 Dec 16 13:23	0° ≈			1835 May 26 02:36	0°8	
	1833 Jan 10 07:47	0°) €			1835 Jun 20 06:09	0°II	
	1833 Feb 04 21:55	0° Υ			1835 Jul 15 03:02	0ಂತಾ	
asc. node	1833 Feb 06 18:31	2° Y 06'56		asc. node	1835 Jul 25 13:45	12° 5 642'10	
	1833 Mar 04 12:36	9° 8			1835 Aug 08 17:18	0 $^{\circ}\Omega$	

morning got	1925 Aug 20 22:10	24° Ω 56'23		avanina aat	1929 Mar 02 07:01	16°) (10′11	
morning set	1835 Aug 28 23:10 1835 Sep 02 01:16	0° Mp		evening set min. Earth dist.	1838 Mar 02 07:01 1838 Mar 04 16:37	16 X 10 11 14° X 40'40	0.27769 AU
	1835 Sep 02 01:10 1835 Sep 26 04:20	0∘ ⊽		inferior conj	1838 Mar 05 07:00	14°)(18'04	8°48'55
max. Earth dist.	1835 Oct 01 19:51		1.72007 AU	minimum elong	1838 Mar 05 07:00	14° X 17'58	8°48'54
max. Latur dist.	1033 OCT 01 17.31	7 = 02 30	1.72007 AC	morning rise	1838 Mar 08 07:16	12°\(\)25'46	0 40 54
superior conj	1835 Oct 05 01:46	11° ≏ 06'06	1°16'45	direct	1838 Mar 26 01:44	6°\(\frac{12}{23}\) 40	
minimum elong	1835 Oct 05 01:40	11° ⊆ 30'13		greatest brilliancy	1838 Apr 04 05:39	7°) 54'52	-4 8m
minimum ciong	1835 Oct 20 04:26	0°M	1 1030	desc. node	1838 Apr 30 22:07	24°) (3132	1.0111
evening rise	1835 Nov 13 08:45	0° × 717'19		dese. node	1838 May 06 19:38	0°Υ	
8	1835 Nov 13 03:13	0° ∡ ¹		morning max el	1838 May 14 06:44	6° Y 59'38	46°00'06
desc. node	1835 Nov 14 03:18	1° ₹ 15'26			1838 Jun 05 17:31	0°8	
	1835 Dec 07 01:49	0°ರ			1838 Jul 02 19:29	0° I I	
	1835 Dec 31 01:15	0° ≈			1838 Jul 28 17:38	0°ಅ	
	1836 Jan 24 03:29	0° ∀		asc. node	1838 Aug 22 01:35	28° © 57'31	
	1836 Feb 17 12:04	0°Υ			1838 Aug 22 22:20	$0^{\circ}\Omega$	
asc. node	1836 Mar 06 06:29	21° Y 31'45			1838 Sep 16 13:56	o° mp	
	1836 Mar 13 08:34	0°8			1838 Oct 10 19:58	0∘ ত	
	1836 Apr 08 02:10	$\Pi^{\circ}0$			1838 Nov 03 19:58	0°M	
	1836 May 05 13:50	0°ಅ		morning set	1838 Nov 08 01:16	5° ™ 17'43	
evening max el	1836 May 16 22:42	11° 5 22'27	45°26'26		1838 Nov 27 17:00	0° ∡ ¹	
	1836 Jun 07 15:49	$0^{\circ}\Omega$		desc. node	1838 Dec 11 15:00	17° ∡ ³30'38	
greatest brilliancy	1836 Jun 23 21:10	9° Ω 07'12	-4.7m				
desc. node	1836 Jun 25 19:51	9° Ω 46'27		superior conj	1838 Dec 18 15:22	26° ₹ 20′29	-0°16'43
retrograde	1836 Jul 04 12:33	11° Ω 09'09		minimum elong	1838 Dec 18 10:57	26° х 06′32	0°16'29
evening set	1836 Jul 20 14:04	6° Ω 16′20		max. Earth dist.	1838 Dec 19 00:33	26° ⊀ ¹49'22	1.71070 AU
inferior conj	1836 Jul 26 00:38	2° Ω 59'14	-6°20'01		1838 Dec 21 13:08	8°0	
minimum elong	1836 Jul 25 14:43	3° £ 14'43	6°18'02		1839 Jan 14 09:37	0° ≈	
min. Earth dist.	1836 Jul 26 01:10	2° Ω 58′23	0.28960 AU	evening rise	1839 Jan 29 03:02	18° ≈ 29'08	
morning rise	1836 Jul 30 15:09	0° Ω 10′05			1839 Feb 07 07:41	0° ℋ	
	1836 Jul 30 22:04	30° ₹ 5			1839 Mar 03 09:04	0 ° Υ	
direct	1836 Aug 16 15:46	24°9542'24			1839 Mar 27 16:05	9° 8	
greatest brilliancy	1836 Aug 27 06:32		-4.8m	asc. node	1839 Apr 03 18:32	8° 8 41'46	
	1836 Sep 03 08:16	0 \circ Ω			1839 Apr 21 07:16	Π °0	
morning max el	1836 Oct 05 03:52	25° Ω 41'32	46°15'10		1839 May 16 09:52	0°€	
	1836 Oct 09 11:10	0° m)			1839 Jun 11 05:49	$0^{\circ}\Omega$	
asc. node	1836 Oct 16 23:20	7° mp 47'52			1839 Jul 08 09:50	0° т р	
	1836 Nov 06 01:23	0° ™		desc. node	1839 Jul 24 07:36	16° Mp 18'11	
	1836 Dec 01 13:58	0° M		evening max el	1839 Jul 28 05:22	20° m 05'14	45°41'32
	1836 Dec 26 06:04	0° ∡		1 '11'	1839 Aug 08 02:25	0° 亞	4.0
1 1	1837 Jan 19 13:26	0°る		greatest brilliancy	1839 Sep 05 22:40	18° £ 27'09	-4.8m
desc. node	1837 Feb 05 12:37	21° る 02'46		retrograde	1839 Sep 15 03:24	19° £ 59'28	
	1837 Feb 12 17:39	0° ≈ 0° ∀		evening set	1839 Oct 02 12:23 1839 Oct 06 02:35	14° £ 19'16	7856124
	1837 Mar 08 21:27	0° Υ		inferior conj minimum elong	1839 Oct 06 02:33	12° ♀ 09'25 11° ♀ 56'43	7°55'18
morning set	1837 Apr 02 02:18 1837 Apr 10 21:53	0 1 10° Υ 54'27		min. Earth dist.	1839 Oct 00 10:33 1839 Oct 07 00:38	11° ⊆ 35'41	0.27714 AU
morning set	1837 Apr 26 08:59	0° 8		morning rise	1839 Oct 07 00:38 1839 Oct 10 09:02	9° £ 35'16	0.27714 AU
	1657 Apr 20 06.59	v O		direct	1839 Oct 10 09:02 1839 Oct 27 04:03	4° £ 09'17	
superior conj	1837 May 18 13:58	27° 8 21'25	-0°26'01	greatest brilliancy	1839 Nov 07 08:32	6° £ 29'56	-4.9m
minimum elong	1837 May 18 19:20	27° 8 37'54		asc. node	1839 Nov 14 11:00	10° ⊆ 01'38	, 111
max. Earth dist.	1837 May 19 21:59	_	1.73395 AU	ase. node	1839 Dec 09 08:09	0°M	
	1837 May 20 17:32	0°II		morning max el	1839 Dec 16 22:28	7° M 31'39	46°54'03
asc. node	1837 May 29 16:10	10° Ⅱ 59'43			1840 Jan 06 19:15	0° ∡ 7	
	1837 Jun 14 03:25	0°ಅ			1840 Feb 01 18:33	0°ರ	
evening rise	1837 Jun 24 04:46	12°520'43			1840 Feb 26 21:30	0° ≈	
Č	1837 Jul 08 14:02	$0^{\circ}\Omega$		desc. node	1840 Mar 05 00:33	8° ≈ 36'10	
	1837 Aug 02 01:35	0° m)			1840 Mar 22 16:13	0° ∀	
	1837 Aug 26 15:06	0∘ <u>v</u>			1840 Apr 16 07:36	$0^{\circ}\Upsilon$	
desc. node	1837 Sep 18 05:29	27° ≏ 26'44			1840 May 10 21:51	9° 8	
	1837 Sep 20 08:11	0°M₊			1840 Jun 04 11:22	$\Pi^{\circ}0$	
	1837 Oct 15 06:49	0° ∡ ¹		morning set	1840 Jun 18 18:30	17° Ⅱ 29′23	
	1837 Nov 09 15:12	8°0		asc. node	1840 Jun 26 03:56	26° Ⅲ 32'52	
	1837 Dec 05 21:35	0° ≈			1840 Jun 28 23:30	0°©	
evening max el	1837 Dec 23 07:54	18° ≈ 37'04	47°16'51	max. Earth dist.	1840 Jul 22 18:35	29° © 14'50	1.73377 AU
						_	
	1838 Jan 03 23:26	0°) €			1840 Jul 23 09:15	$0^{\circ}\Omega$	
asc. node	1838 Jan 03 23:26 1838 Jan 09 08:44	0° ∺ 4° ∺ 49'43			1840 Jul 23 09:15	0°{}	
asc. node greatest brilliancy			-4.9m	superior conj minimum elong	1840 Jul 23 09:15 1840 Jul 25 04:21 1840 Jul 24 19:34	0° \$ \bigcap 2° \$ \Omega 12'48 1° \$ \Omega 45'45	1°01'42

	1840 Aug 16 16:23	0° m		greatest brilliancy	1843 Jan 18 09:00	21° 尽 08'11	-4.9m
evening rise	1840 Aug 30 04:42	16° Mp 43'41			1843 Feb 03 01:40	0°ರ	
	1840 Sep 09 21:46	0。 ಹ		morning max el	1843 Feb 27 19:12	21° る 55'08	46°44'42
	1840 Oct 04 02:40	0°M₊			1843 Mar 07 16:54	0° ≈	
desc. node	1840 Oct 15 17:25	14°M23'10		desc. node	1843 Apr 02 12:29	28° ≈ 11'07	
	1840 Oct 28 08:10	0° ⊼			1843 Apr 04 03:02	0° ℋ	
	1840 Nov 21 15:11	0° ප			1843 Apr 30 03:52	$0^{\circ}\Upsilon$	
	1840 Dec 16 01:45	0° ≈			1843 May 25 14:39	$0^{\circ}S$	
	1841 Jan 09 21:06	0° ℋ			1843 Jun 19 17:31	$\Pi^{\circ}0$	
	1841 Feb 04 13:13	0 ° $\mathbf{\Upsilon}$			1843 Jul 14 14:00	0 \circ \odot	
asc. node	1841 Feb 05 20:35	1° Y 28'55		asc. node	1843 Jul 24 15:49	12° © 15'20	
	1841 Mar 04 09:28	9° 8			1843 Aug 08 04:02	$0 {\circ} \Omega$	
evening max el	1841 Mar 04 23:01	0° 8 33'51	46°21'41	morning set	1843 Aug 26 15:57	22° Ω 46'53	
	1841 Apr 12 14:38	Π $^{\circ}0$			1843 Sep 01 11:56	0° m y	
greatest brilliancy	1841 Apr 12 19:22	0° Ⅱ 04'33	-4.8m		1843 Sep 25 15:01	0∘ ত	
retrograde	1841 Apr 23 17:07	2° Ⅱ 15'15		max. Earth dist.	1843 Sep 29 09:24	4° ≙ 41'59	1.72062 AU
	1841 May 04 06:33	30°₽ ႘					
evening set	1841 May 09 06:59	27° 8 29'51		superior conj	1843 Oct 02 16:53	8° ≙ 50'04	1°18'11
inferior conj	1841 May 15 01:09	23° 8 59'35	3°06'15	minimum elong	1843 Oct 03 00:02	9° ₽ 12'22	1°18'02
minimum elong	1841 May 15 07:35	23° 8 49'28	3°04'28		1843 Oct 19 15:12	0° M ₊	
min. Earth dist.	1841 May 15 01:27	23° 8 59'07	0.28754 AU	evening rise	1843 Nov 10 20:29	27° M 49'35	
morning rise	1841 May 21 08:36	20° 8 11'53			1843 Nov 12 14:08	0° ∡ ¹	
desc. node	1841 May 28 09:51	17° 8 04'06		desc. node	1843 Nov 13 05:14	0° ∡ ¹47'16	
direct	1841 Jun 05 12:39	15° 8 45'26			1843 Dec 06 12:53	0°ರ	
greatest brilliancy	1841 Jun 15 14:37	17° 8 36'01	-4.7m		1843 Dec 30 12:31	0° ≈	
	1841 Jul 06 13:45	$\Pi^{\circ}0$			1844 Jan 23 15:00	0° ∀	
morning max el	1841 Jul 24 07:07	15° Ⅲ 30′32	45°44'07		1844 Feb 16 23:59	0° Y	
	1841 Aug 07 19:22	0 \circ \odot		asc. node	1844 Mar 05 08:38	21° Y 01'09	
	1841 Sep 04 06:49	$0^{\circ}\Omega$			1844 Mar 12 21:13	$_{0\circ}$ 8	
asc. node	1841 Sep 18 13:37	16° Ω 28'16			1844 Apr 07 16:25	$\Pi^{\circ}0$	
	1841 Sep 30 00:47	0° m			1844 May 05 08:20	0°ම	
	1841 Oct 24 20:14	0० ⊽		evening max el	1844 May 14 13:26	9° 5 09'47	45°27'15
	1841 Nov 18 02:56	0°M			1844 Jun 08 09:43	$0^{\circ}\Omega$	
	1841 Dec 12 03:13	0° ∡ 7		greatest brilliancy	1844 Jun 21 12:08	6° Ω 57'37	-4.7m
	1842 Jan 05 01:00	ರ°0		desc. node	1844 Jun 24 21:50	8° £ 02'08	
desc. node	1842 Jan 08 02:47	3° る 51'40		retrograde	1844 Jul 02 04:27	9° Ω 00'58	
morning set	1842 Jan 23 11:37	23° る 09'29		evening set	1844 Jul 18 03:30	4° Ω 11'15	
	1842 Jan 28 22:28	0° ≈		inferior conj	1844 Jul 23 16:52	0° £ 50′27	-6°06'05
	1842 Feb 21 21:02	0° ∀		minimum elong	1844 Jul 23 06:57	1° Ω 05'55	6°04'02
				min. Earth dist.	1844 Jul 23 17:13	0° Ω 49'55	0.28976 AU
superior conj	1842 Mar 05 14:13	14°) 38′20	-1°26'06		1844 Jul 25 01:13	30° ₹	
minimum elong	1842 Mar 05 14:08	14°) 38′06	1°26'06	morning rise	1844 Jul 28 10:08	27° © 57'21	
max. Earth dist.	1842 Mar 09 17:33	19° ¥ 48'15	1.71960 AU	direct	1844 Aug 14 07:38	22° © 33'11	
	1842 Mar 17 21:56	0 ° Υ		greatest brilliancy	1844 Aug 24 23:16	24° © 35'10	-4.8m
	1842 Apr 11 02:17	8°			1844 Sep 04 16:22	$0^{\circ}\Omega$	
evening rise	1842 Apr 14 01:45	3° 8 40'52		morning max el	1844 Oct 02 18:55	23° Ω 26'47	46°13'42
asc. node	1842 May 01 06:21	24° 8 51'39			1844 Oct 09 07:10	o° my	
	1842 May 05 10:48	Π $^{\circ}0$		asc. node	1844 Oct 16 01:18	7° m 04'50	
	1842 May 29 23:54	0 \circ \odot			1844 Nov 05 16:27	0∘ ⊽	
	1842 Jun 23 18:18	$0 {\circ} \Omega$			1844 Dec 01 03:12	0° M	
	1842 Jul 18 20:01	0° m			1844 Dec 25 18:22	0° ∡ ¹	
	1842 Aug 13 09:17	0∘ ত			1845 Jan 19 01:12	0°ರ	
desc. node	1842 Aug 20 19:32	8° ≙ 34'03		desc. node	1845 Feb 04 14:42	20° る 33'29	
	1842 Sep 08 18:40	0° M			1845 Feb 12 05:03	0° ≈	
	1842 Oct 06 24:00	0° ∡ ¹			1845 Mar 08 08:34	0° ∀	
evening max el	1842 Oct 09 12:07	2° ∡ ¹29'21	46°48'37		1845 Apr 01 13:11	0 ° $\mathbf{\Upsilon}$	
	1842 Nov 12 14:07	0°ರ		morning set	1845 Apr 08 12:54	8° Ƴ 39'00	
greatest brilliancy	1842 Nov 18 21:06	2° る 47'35	-4.9m		1845 Apr 25 19:40	$0^{\circ}S$	
retrograde	1842 Nov 28 15:42	4° ප 35'10					
asc. node	1842 Dec 11 22:54	1° ප 03'16		superior conj	1845 May 16 07:08	25° 8 14'02	
evening set	1842 Dec 12 22:13	0° ප 33'03		minimum elong	1845 May 16 13:05	25° 8 32'21	
	1842 Dec 13 22:33	30°₹ ⋌ 7		max. Earth dist.	1845 May 17 17:01		1.73364 AU
inferior conj	1842 Dec 19 03:59	26° ₹ 54'16	1°52'01		1845 May 20 04:07	0°II	
minimum elong	1842 Dec 18 23:46		1°50'40	asc. node	1845 May 28 18:09	10° Ⅱ 33'20	
min. Earth dist.	1842 Dec 18 21:31		0.26414 AU		1845 Jun 13 13:59	0ංම	
morning rise	1842 Dec 25 01:26	23° ₹ 27'14		evening rise	1845 Jun 21 23:45	10°919'06	
direct	1843 Jan 08 12:58	19° ∡ 17'57			1845 Jul 08 00:46	$0^{\circ}\Omega$	

	1845 Aug 01 12:36	0° m			1848 Feb 26 10:33	0° ≈	
	1845 Aug 26 02:34	0∘ ⊽		desc. node	1848 Mar 04 02:39	8°≈03'54	
desc. node	1845 Sep 17 07:31	26° ♀ 56'30			1848 Mar 22 04:24	0°) €	
	1845 Sep 19 20:17	0°M			1848 Apr 15 19:13	0° Υ	
	1845 Oct 14 19:55	0° ∡ 7			1848 May 10 09:04	0° B	
	1845 Nov 09 05:55	0°る			1848 Jun 03 22:21	0°П	
	1845 Dec 05 15:35	0° ≈	47017126	morning set	1848 Jun 16 12:40	15° Ⅱ 24'49	
evening max el	1845 Dec 20 22:08	16°≈14'07	4/01/36	asc. node	1848 Jun 25 06:03	26° Ⅱ 06'10	
,	1846 Jan 04 04:24	0°) {		P 4 F 4	1848 Jun 28 10:19	0°©	1 72200 444
asc. node	1846 Jan 08 10:50	3°) (43'31	4.0	max. Earth dist.	1848 Jul 20 14:58	16'44فو°′27	1.73399 AU
greatest brilliancy	1846 Jan 30 14:20	18°) €00'49	-4.9m		1040 1 1 22 22 54	00 0 00157	0050120
retrograde	1846 Feb 09 22:25	20°) €03'59		superior conj	1848 Jul 22 22:54	0° Ω 08'57	
evening set	1846 Feb 27 20:27	13° ¥ 50′20	0.00016.444	minimum elong	1848 Jul 22 14:08	29°5541'56	0°59'12
min. Earth dist.	1846 Mar 02 05:59	12°) €21'09	0.27716 AU		1848 Jul 22 20:00	0° N	
inferior conj	1846 Mar 02 21:15	11°) (57'13	8°48'59		1848 Aug 16 03:11	0° Mp	
minimum elong	1846 Mar 02 20:26	11°) 58'29	8°48'58	evening rise	1848 Aug 27 22:16	14° m 35'44	
morning rise	1846 Mar 05 20:37	10°) €06'35			1848 Sep 09 08:44	0∘ 亚	
direct	1846 Mar 23 15:15	4°) €01'13	4.0	ī Ī	1848 Oct 03 13:55	0°M,	
greatest brilliancy	1846 Apr 01 18:44	5°) (34'44	-4.8m	desc. node	1848 Oct 14 19:23	13°M53'58	
desc. node	1846 Apr 30 00:03	23°) 48′10 0° °			1848 Oct 27 19:48	0° ∡ ¹	
	1846 May 06 21:32		46001124		1848 Nov 21 03:18	600 800	
morning max el	1846 May 11 22:02	4°Υ45'33	46°01'34		1848 Dec 15 14:30	0° ≈	
	1846 Jun 05 10:10	0° B			1849 Jan 09 10:55	0° ℋ 0° Ƴ	
	1846 Jul 02 09:08	0° Ⅱ		1	1849 Feb 04 05:11	0° Y 49'30	
1	1846 Jul 28 05:53	0°©		asc. node	1849 Feb 04 22:43		46024110
asc. node	1846 Aug 21 03:44	28°©29'11		evening max el	1849 Mar 02 14:37	28° Y 18'30	46°24'10
	1846 Aug 22 09:52	0° N		4 41 311	1849 Mar 04 07:34	0°8	4.0
	1846 Sep 16 01:07	0° m		greatest brilliancy	1849 Apr 10 12:49	27° 8 54'29 0° Ⅱ	-4.8m
	1846 Oct 10 07:00	0∘ 亚		. 1	1849 Apr 19 13:05		
	1846 Nov 03 06:58	0°M		retrograde	1849 Apr 21 09:17	0°II03'59	
morning set	1846 Nov 05 14:19	2°M53'35 0°⊀			1849 Apr 23 05:03	30°R8	
J J.	1846 Nov 27 04:01			evening set	1849 May 07 01:25	25° 8 16'01	2025102
desc. node	1846 Dec 10 17:03	17° ∡ *02'23		inferior conj	1849 May 12 17:22		3°25'03
	1946 D 16 01:00	220.7/45/20	0012145	minimum elong	1849 May 13 00:21	21° 8 37'34	0.28730 AU
superior conj	1846 Dec 16 01:09	23° x ⁷ 45'28		min. Earth dist.	1849 May 12 17:45		0.28/30 AU
minimum elong	1846 Dec 15 21:46	23° x ⁷ 34'47	0°12′35	morning rise	1849 May 18 23:41	18° 8 02'02	
behind sun begin	1846 Dec 15 04:42	22° 🗷 41'04		desc. node	1849 May 27 11:57	14° 8 28'16	
behind sun end	1846 Dec 16 14:50	24° × 28'30	1 71074 ATT	direct	1849 Jun 03 04:43	13° 8 34'55	4.7
max. Earth dist.	1846 Dec 16 09:25		1.71074 AU	greatest brilliancy	1849 Jun 13 05:37 1849 Jul 06 23:06	15° 8 24'28	-4./m
	1846 Dec 21 00:10	% ⊗°0 š0		mamina may al	1849 Jul 06 23:06 1849 Jul 21 22:20	0°Ⅱ 12°Ⅲ10!42	45942151
	1847 Jan 13 20:41 1847 Jan 26 13:10	0°≈ 15°≈55'45		morning max el	1849 Jul 21 22:20 1849 Aug 07 13:19	13° Ⅱ 18'42 0° ©	45*45*51
evening rise		15°≈55°45 0° ∺			0	0-50	
	1847 Feb 06 18:46 1847 Mar 02 20:14				1040 0 02 21.02	000	
				1-	1849 Sep 03 21:03	0°N	
		0° Υ		asc. node	1849 Sep 17 15:32	15° Ω 55′02	
4-	1847 Mar 27 03:27	0°B		asc. node	1849 Sep 17 15:32 1849 Sep 29 13:29	15° Ω 55'02 0° m	
asc. node	1847 Mar 27 03:27 1847 Apr 02 20:30	0° と 8° と 12'52		asc. node	1849 Sep 17 15:32 1849 Sep 29 13:29 1849 Oct 24 08:12	15° Ω 55'02 0° m 0° Ω	
asc. node	1847 Mar 27 03:27 1847 Apr 02 20:30 1847 Apr 20 19:02	0°8 8°812'52 0°∏		asc. node	1849 Sep 17 15:32 1849 Sep 29 13:29 1849 Oct 24 08:12 1849 Nov 17 14:33	15° Q 55'02 0° Mp 0° <u>Ω</u> 0° ML	
asc. node	1847 Mar 27 03:27 1847 Apr 02 20:30 1847 Apr 20 19:02 1847 May 15 22:22	0° ୪ 8° ୪ 12'52 0°II 0°ତ		asc. node	1849 Sep 17 15:32 1849 Sep 29 13:29 1849 Oct 24 08:12 1849 Nov 17 14:33 1849 Dec 11 14:40	15° Ω 55'02 0° m 0° Ω 0° M 0° ⊀	
asc. node	1847 Mar 27 03:27 1847 Apr 02 20:30 1847 Apr 20 19:02 1847 May 15 22:22 1847 Jun 10 19:49	0°8 8°812'52 0°用 0°ණ 0°ብ			1849 Sep 17 15:32 1849 Sep 29 13:29 1849 Oct 24 08:12 1849 Nov 17 14:33 1849 Dec 11 14:40 1850 Jan 04 12:21	15° £55'02 0° m 0° Ω 0° M 0° ⊀ 0° ♂	
	1847 Mar 27 03:27 1847 Apr 02 20:30 1847 Apr 20 19:02 1847 May 15 22:22 1847 Jun 10 19:49 1847 Jul 08 03:19	0°8 8°812'52 0°∏ 0°© 0°Ω 0°M		desc. node	1849 Sep 17 15:32 1849 Sep 29 13:29 1849 Oct 24 08:12 1849 Nov 17 14:33 1849 Dec 11 14:40 1850 Jan 04 12:21 1850 Jan 07 04:56	15° \$\alpha 55'02 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{s}\$ 3° \$\mathbf{S} 22'48	
desc. node	1847 Mar 27 03:27 1847 Apr 02 20:30 1847 Apr 20 19:02 1847 May 15 22:22 1847 Jun 10 19:49 1847 Jul 08 03:19 1847 Jul 23 09:46	0°8 8°812'52 0°用 0°9 0°9 0°9 0°1 15°1930'28	45920/50		1849 Sep 17 15:32 1849 Sep 29 13:29 1849 Oct 24 08:12 1849 Nov 17 14:33 1849 Dec 11 14:40 1850 Jan 04 12:21 1850 Jan 07 04:56 1850 Jan 20 21:14	15° \$\alpha 55'02 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{d}\$ 3° \$\mathrightarrow\$ 22'48 20° \$\mathrightarrow\$ 33'39	
	1847 Mar 27 03:27 1847 Apr 02 20:30 1847 Apr 20 19:02 1847 May 15 22:22 1847 Jun 10 19:49 1847 Jul 08 03:19 1847 Jul 23 09:46 1847 Jul 25 20:34	0°8 8°812'52 0°11 0°\$ 0°Ω 0°10 15°1030'28 17°1052'06	45°39'50	desc. node	1849 Sep 17 15:32 1849 Sep 29 13:29 1849 Oct 24 08:12 1849 Nov 17 14:33 1849 Dec 11 14:40 1850 Jan 04 12:21 1850 Jan 07 04:56 1850 Jan 20 21:14 1850 Jan 28 09:44	15° \$\alpha 55'02 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{d}\$ 3° \$\mathbf{G} 22'48 20° \$\mathbf{G} 33'39 0° \$\implies\$	
desc. node evening max el	1847 Mar 27 03:27 1847 Apr 02 20:30 1847 Apr 20 19:02 1847 May 15 22:22 1847 Jun 10 19:49 1847 Jul 08 03:19 1847 Jul 23 09:46 1847 Jul 25 20:34 1847 Aug 08 08:48	0°8 8°812'52 0°11 0°\$ 0°\$ 0°\$ 15°\$\\$30'28 17°\$\\$52'06 0°\$		desc. node	1849 Sep 17 15:32 1849 Sep 29 13:29 1849 Oct 24 08:12 1849 Nov 17 14:33 1849 Dec 11 14:40 1850 Jan 04 12:21 1850 Jan 07 04:56 1850 Jan 20 21:14	15° \$\alpha 55'02 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{d}\$ 3° \$\mathrightarrow\$ 22'48 20° \$\mathrightarrow\$ 33'39	
desc. node evening max el greatest brilliancy	1847 Mar 27 03:27 1847 Apr 02 20:30 1847 Apr 20 19:02 1847 May 15 22:22 1847 Jun 10 19:49 1847 Jul 08 03:19 1847 Jul 23 09:46 1847 Jul 25 20:34 1847 Aug 08 08:48 1847 Sep 03 10:46	0°8 8°812'52 0°11 0°\$ 0°\$ 0°\$ 15°\$30'28 17°\$52'06 0°\$ 16°\$07'58	45°39'50 -4.8m	desc. node morning set	1849 Sep 17 15:32 1849 Sep 29 13:29 1849 Oct 24 08:12 1849 Nov 17 14:33 1849 Dec 11 14:40 1850 Jan 04 12:21 1850 Jan 07 04:56 1850 Jan 20 21:14 1850 Jan 28 09:44 1850 Feb 21 08:13	15° \$\Omega 55'02 0° m 0° \omega 0° m 0° \omega 0° \omega 0° \omega 0° \omega 22'48 20° \omega 33'39 0° \omega 0° \	1°26'00
desc. node evening max el greatest brilliancy retrograde	1847 Mar 27 03:27 1847 Apr 02 20:30 1847 Apr 20 19:02 1847 May 15 22:22 1847 Jun 10 19:49 1847 Jul 08 03:19 1847 Jul 23 09:46 1847 Jul 25 20:34 1847 Aug 08 08:48 1847 Sep 03 10:46 1847 Sep 12 17:00	0°8 8°812'52 0°11 0°5 0°10 0°10 15°1030'28 17°1052'06 0°5 16°507'58 17°541'02		desc. node morning set superior conj	1849 Sep 17 15:32 1849 Sep 29 13:29 1849 Oct 24 08:12 1849 Nov 17 14:33 1849 Dec 11 14:40 1850 Jan 04 12:21 1850 Jan 07 04:56 1850 Jan 20 21:14 1850 Jan 28 09:44 1850 Feb 21 08:13	15° \$\alpha 55'02 0° \$\mathref{m}\$ 0° \$\mathref{m}\$ 0° \$\mathref{m}\$ 0° \$\mathref{m}\$ 0° \$\mathref{m}\$ 20° \$\mathref{3}33'39 0° \$\alpha\$ 0° \$\mathref{m}\$ 12° \$\mathref{m}\$ 10'44	
desc. node evening max el greatest brilliancy retrograde evening set	1847 Mar 27 03:27 1847 Apr 02 20:30 1847 Apr 20 19:02 1847 May 15 22:22 1847 Jun 10 19:49 1847 Jul 08 03:19 1847 Jul 23 09:46 1847 Jul 25 20:34 1847 Aug 08 08:48 1847 Sep 03 10:46 1847 Sep 12 17:00 1847 Sep 30 04:43	0°8 8°812'52 0°11 0°55 0°10 0°10 15°1030'28 17°1052'06 0°11 16°107'58 17°102'41'02 11°156'48	-4.8m	desc. node morning set superior conj minimum elong	1849 Sep 17 15:32 1849 Sep 29 13:29 1849 Oct 24 08:12 1849 Nov 17 14:33 1849 Dec 11 14:40 1850 Jan 04 12:21 1850 Jan 07 04:56 1850 Jan 20 21:14 1850 Jan 28 09:44 1850 Feb 21 08:13 1850 Mar 03 02:04 1850 Mar 03 00:59	15° \$\alpha 55'02 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 20° \$ 3 33'39 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 12° \$\mathbf{n}\$ 10'44 12° \$\mathbf{n}\$ 77'21	1°26'01
desc. node evening max el greatest brilliancy retrograde evening set inferior conj	1847 Mar 27 03:27 1847 Apr 02 20:30 1847 Apr 20 19:02 1847 May 15 22:22 1847 Jun 10 19:49 1847 Jul 08 03:19 1847 Jul 23 09:46 1847 Jul 25 20:34 1847 Aug 08 08:48 1847 Sep 03 10:46 1847 Sep 12 17:00 1847 Sep 30 04:43 1847 Oct 03 16:34	0°8 8°812'52 0°11 0°50 0°10 15°10'30'28 17°10'52'06 0°50 16°50'7'58 17°56'48 9°56'48	-4.8m -8°05'04	desc. node morning set superior conj	1849 Sep 17 15:32 1849 Sep 29 13:29 1849 Oct 24 08:12 1849 Nov 17 14:33 1849 Dec 11 14:40 1850 Jan 04 12:21 1850 Jan 07 04:56 1850 Jan 20 21:14 1850 Jan 28 09:44 1850 Feb 21 08:13 1850 Mar 03 02:04 1850 Mar 03 00:59 1850 Mar 07 06:14	15° \$\alpha 55'02 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 20° \$ 3 3'39 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 12° \$\mathbf{n}\$ 10'44 12° \$\mathbf{n}\$ 707'21 17° \$\mathbf{n}\$ 23'21	
desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong	1847 Mar 27 03:27 1847 Apr 02 20:30 1847 Apr 20 19:02 1847 May 15 22:22 1847 Jun 10 19:49 1847 Jul 08 03:19 1847 Jul 23 09:46 1847 Jul 25 20:34 1847 Aug 08 08:48 1847 Sep 03 10:46 1847 Sep 12 17:00 1847 Sep 30 04:43 1847 Oct 03 16:34 1847 Oct 04 00:18	0°8 8°812'52 0°11 0°\$ 0°\$ 0°\$ 15°\$30'28 17°\$52'06 0°\$ 16°\$07'58 17°\$41'02 11°\$56'48 9°\$50'05 9°\$38'14	-4.8m -8°05'04 8°04'08	desc. node morning set superior conj minimum elong	1849 Sep 17 15:32 1849 Sep 29 13:29 1849 Oct 24 08:12 1849 Nov 17 14:33 1849 Dec 11 14:40 1850 Jan 04 12:21 1850 Jan 07 04:56 1850 Jan 20 21:14 1850 Jan 28 09:44 1850 Feb 21 08:13 1850 Mar 03 02:04 1850 Mar 03 00:59 1850 Mar 07 06:14 1850 Mar 17 09:03	15° \$\alpha 55'02 0° \$\mathbb{n}\$ 0° \$\mathbb{n}\$ 0° \$\mathbb{n}\$ 0° \$\mathbb{n}\$ 0° \$\mathbb{n}\$ 22'48 20° \$\mathred{3}33'39 0° \$\mathred{\times}\$ 0° \$\mathred{\times}\$ 12° \$\mathred{\times}\$10'44 12° \$\mathred{\times}\$07'21 17° \$\mathred{\times}\$23'21 0° \$\mathred{\times}\$	1°26'01
desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	1847 Mar 27 03:27 1847 Apr 02 20:30 1847 Apr 20 19:02 1847 May 15 22:22 1847 Jun 10 19:49 1847 Jul 08 03:19 1847 Jul 23 09:46 1847 Jul 25 20:34 1847 Aug 08 08:48 1847 Sep 03 10:46 1847 Sep 12 17:00 1847 Sep 30 04:43 1847 Oct 03 16:34 1847 Oct 04 00:18 1847 Oct 04 13:56	0°႘ 8°႘12'52 0°Ⅲ 0°Ք 0°№ 15°№30'28 17°№52'06 0°Ք 16°£07'58 17°£41'02 11°£56'48 9°£50'05 9°£38'14 9°£17'20	-4.8m -8°05'04	desc. node morning set superior conj minimum elong max. Earth dist.	1849 Sep 17 15:32 1849 Sep 29 13:29 1849 Oct 24 08:12 1849 Nov 17 14:33 1849 Dec 11 14:40 1850 Jan 04 12:21 1850 Jan 07 04:56 1850 Jan 20 21:14 1850 Jan 28 09:44 1850 Feb 21 08:13 1850 Mar 03 02:04 1850 Mar 03 00:59 1850 Mar 07 06:14 1850 Mar 17 09:03 1850 Apr 10 13:22	15° \$\alpha 55'02 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 20° \$ 3 33'39 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 12° \$\mathbf{n}\$ 10'44 12° \$\mathbf{n}\$ 07'21 17° \$\mathbf{n}\$ 23'21 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$	1°26'01
desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	1847 Mar 27 03:27 1847 Apr 02 20:30 1847 Apr 20 19:02 1847 May 15 22:22 1847 Jun 10 19:49 1847 Jul 08 03:19 1847 Jul 23 09:46 1847 Jul 25 20:34 1847 Aug 08 08:48 1847 Sep 03 10:46 1847 Sep 12 17:00 1847 Sep 30 04:43 1847 Oct 03 16:34 1847 Oct 04 00:18 1847 Oct 04 13:56 1847 Oct 07 19:35	0°8 8°812'52 0°11 0°50 0°10 0°10 15°1030'28 17°105'206 0°10 16°107'58 17°141'02 11°156'48 9°150'05 9°138'14 9°17'20 7°12'04'3	-4.8m -8°05'04 8°04'08	desc. node morning set superior conj minimum elong max. Earth dist. evening rise	1849 Sep 17 15:32 1849 Sep 29 13:29 1849 Oct 24 08:12 1849 Nov 17 14:33 1849 Dec 11 14:40 1850 Jan 04 12:21 1850 Jan 07 04:56 1850 Jan 20 21:14 1850 Jan 28 09:44 1850 Feb 21 08:13 1850 Mar 03 02:04 1850 Mar 03 00:59 1850 Mar 07 06:14 1850 Mar 17 09:03 1850 Apr 10 13:22 1850 Apr 11 15:53	15° \$\alpha 55'02 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 20° \$ 3 33'39 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 12° \$\mathbf{n}\$ 10'44 12° \$\mathbf{n}\$ 07'21 17° \$\mathbf{n}\$ 23'21 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 1° \$\mathbf{n}\$ 21'58	1°26'01
desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	1847 Mar 27 03:27 1847 Apr 02 20:30 1847 Apr 20 19:02 1847 May 15 22:22 1847 Jun 10 19:49 1847 Jul 08 03:19 1847 Jul 23 09:46 1847 Jul 25 20:34 1847 Aug 08 08:48 1847 Sep 03 10:46 1847 Sep 12 17:00 1847 Sep 30 04:43 1847 Oct 03 16:34 1847 Oct 04 00:18 1847 Oct 04 13:56 1847 Oct 07 19:35 1847 Oct 24 19:29	0°႘ 8°႘12'52 0°Ⅱ 0°Ω 0°№ 15°№30'28 17°№52'06 0°Ω 16°Ω07'58 17°Ω41'02 11°Ω56'48 9°Ω50'05 9°Ω38'14 9°Ω17'20 7°Ω20'43 1°Ω49'08	-4.8m -8°05'04 8°04'08 0.27785 AU	desc. node morning set superior conj minimum elong max. Earth dist.	1849 Sep 17 15:32 1849 Sep 29 13:29 1849 Oct 24 08:12 1849 Nov 17 14:33 1849 Dec 11 14:40 1850 Jan 04 12:21 1850 Jan 07 04:56 1850 Jan 20 21:14 1850 Jan 28 09:44 1850 Feb 21 08:13 1850 Mar 03 02:04 1850 Mar 03 00:59 1850 Mar 07 06:14 1850 Mar 17 09:03 1850 Apr 10 13:22 1850 Apr 11 15:53 1850 Apr 30 08:22	15° \$\alpha 55'02 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 20° \$ 3 33'39 0° \$\alpha\$ 0° \$\mathbf{n}\$ 12° \$\mathbf{n}\$ 10'44 12° \$\mathbf{n}\$ 07'21 17° \$\mathbf{n}\$ 23'21 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 1° \$\mathbf{n}\$ 21'58 24° \$\mathbf{n}\$ 23'40	1°26'01
desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	1847 Mar 27 03:27 1847 Apr 02 20:30 1847 Apr 20 19:02 1847 May 15 22:22 1847 Jun 10 19:49 1847 Jul 08 03:19 1847 Jul 23 09:46 1847 Jul 25 20:34 1847 Aug 08 08:48 1847 Sep 03 10:46 1847 Sep 12 17:00 1847 Sep 12 17:00 1847 Sep 30 04:43 1847 Oct 03 16:34 1847 Oct 04 00:18 1847 Oct 04 13:56 1847 Oct 07 19:35 1847 Oct 24 19:29 1847 Nov 04 22:38	0°8 8°812'52 0°II 0°© 0°A 0°M 15°M30'28 17°M52'06 0°A 16°A07'58 17°A41'02 11°A56'48 9°A50'05 9°A38'14 9°A17'20 7°A20'43 1°A49'08 4°A08'35	-4.8m -8°05'04 8°04'08	desc. node morning set superior conj minimum elong max. Earth dist. evening rise	1849 Sep 17 15:32 1849 Sep 29 13:29 1849 Oct 24 08:12 1849 Nov 17 14:33 1849 Dec 11 14:40 1850 Jan 04 12:21 1850 Jan 07 04:56 1850 Jan 20 21:14 1850 Jan 28 09:44 1850 Feb 21 08:13 1850 Mar 03 02:04 1850 Mar 03 00:59 1850 Mar 07 06:14 1850 Mar 17 09:03 1850 Apr 10 13:22 1850 Apr 11 15:53 1850 Apr 30 08:22 1850 May 04 21:57	15° \$\alpha 55'02 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 20° \$ 3 33'39 0° \$\alpha\$ 0° \$\mathbf{m}\$ 12° \$\mathbf{m}\$ 10'44 12° \$\mathbf{m}\$ 407'21 17° \$\mathbf{m}\$ 23'21 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 1° \$\mathbf{m}\$ 21'58 24° \$\mathbf{m}\$ 23'40 0° \$\mathbf{m}\$	1°26'01
desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	1847 Mar 27 03:27 1847 Apr 02 20:30 1847 Apr 20 19:02 1847 May 15 22:22 1847 Jun 10 19:49 1847 Jul 08 03:19 1847 Jul 23 09:46 1847 Jul 25 20:34 1847 Aug 08 08:48 1847 Sep 03 10:46 1847 Sep 12 17:00 1847 Sep 12 17:00 1847 Sep 30 04:43 1847 Oct 03 16:34 1847 Oct 04 00:18 1847 Oct 04 13:56 1847 Oct 07 19:35 1847 Oct 24 19:29 1847 Nov 04 22:38 1847 Nov 13 13:02	0°႘ 8°႘12'52 0°Д 0°Д 0°Д 0°Щ 15°№30'28 17°№52'06 0°Ω 16°Ω07'58 17°Ω41'02 11°Ω56'48 9°Ω50'05 9°Ω38'14 9°Ω17'20 7°Ω20'43 1°Ω49'08 4°Ω08'35 8°Ω34'07	-4.8m -8°05'04 8°04'08 0.27785 AU	desc. node morning set superior conj minimum elong max. Earth dist. evening rise	1849 Sep 17 15:32 1849 Sep 29 13:29 1849 Oct 24 08:12 1849 Nov 17 14:33 1849 Dec 11 14:40 1850 Jan 04 12:21 1850 Jan 07 04:56 1850 Jan 20 21:14 1850 Jan 28 09:44 1850 Feb 21 08:13 1850 Mar 03 00:59 1850 Mar 07 06:14 1850 Mar 17 09:03 1850 Apr 10 13:22 1850 Apr 10 13:22 1850 Apr 30 08:22 1850 May 04 21:57 1850 May 29 11:15	15° \$\alpha 55'02 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 20° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 12° \$\mathbf{m}\$ 10'44 12° \$\mathbf{m}\$ 23'21 0° \$\mathbf{m}\$ 1° \$\mathbf{m}\$ 23'21 0° \$\mathbf{m}\$ 1° \$\mathbf{m}\$ 22'58 24° \$\mathbf{m}\$ 23'40 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$	1°26'01
desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	1847 Mar 27 03:27 1847 Apr 02 20:30 1847 Apr 20 19:02 1847 May 15 22:22 1847 Jun 10 19:49 1847 Jul 08 03:19 1847 Jul 25 20:34 1847 Aug 08 08:48 1847 Sep 03 10:46 1847 Sep 12 17:00 1847 Sep 30 04:43 1847 Oct 03 16:34 1847 Oct 04 00:18 1847 Oct 04 13:56 1847 Oct 04 13:56 1847 Oct 24 19:29 1847 Nov 04 22:38 1847 Nov 13 13:02 1847 Dec 09 09:21	0°8 8°812'52 0°¶ 0°Ω 0°№ 15°№30'28 17°№52'06 0°Ω 16°Ω07'58 17°Ω41'02 11°Ω56'48 9°Ω50'05 9°Ω38'14 9°Ω17'20 7°Ω20'43 1°Ω49'08 4°Ω08'35 8°Ω34'07 0°∭	-4.8m -8°05'04 8°04'08 0.27785 AU -4.9m	desc. node morning set superior conj minimum elong max. Earth dist. evening rise	1849 Sep 17 15:32 1849 Sep 29 13:29 1849 Oct 24 08:12 1849 Nov 17 14:33 1849 Dec 11 14:40 1850 Jan 04 12:21 1850 Jan 07 04:56 1850 Jan 20 21:14 1850 Jan 28 09:44 1850 Feb 21 08:13 1850 Mar 03 02:04 1850 Mar 03 00:59 1850 Mar 07 06:14 1850 Mar 17 09:03 1850 Apr 10 13:22 1850 Apr 10 13:22 1850 Apr 30 08:22 1850 May 04 21:57 1850 May 29 11:15 1850 Jun 23 06:05	15° \$\alpha 55'02 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 20° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 12° \$\mathbf{m}\$ 10'44 12° \$\mathbf{m}\$ 23'21 0° \$\mathbf{m}\$ 1° \$\mathbf{m}\$ 23'21 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 1° \$\mathbf{m}\$ 23'40 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$	1°26'01
desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	1847 Mar 27 03:27 1847 Apr 02 20:30 1847 Apr 20 19:02 1847 May 15 22:22 1847 Jun 10 19:49 1847 Jul 08 03:19 1847 Jul 25 20:34 1847 Aug 08 08:48 1847 Sep 03 10:46 1847 Sep 12 17:00 1847 Sep 30 04:43 1847 Oct 03 16:34 1847 Oct 04 00:18 1847 Oct 04 13:56 1847 Nov 04 22:38 1847 Nov 13 13:02 1847 Dec 09 09:21 1847 Dec 14 13:16	0°8 8°812'52 0°11 0°50 0°10 0°10 15°1030'28 17°105'206 0°50 16°50'7'58 17°54'40 9°55'48 9°55'05 9°53'8'14 9°517'20 7°520'43 1°549'08 4°50'8'35 8°53'4'07 0°11	-4.8m -8°05'04 8°04'08 0.27785 AU -4.9m	desc. node morning set superior conj minimum elong max. Earth dist. evening rise	1849 Sep 17 15:32 1849 Sep 29 13:29 1849 Oct 24 08:12 1849 Nov 17 14:33 1849 Dec 11 14:40 1850 Jan 04 12:21 1850 Jan 07 04:56 1850 Jan 20 21:14 1850 Jan 28 09:44 1850 Feb 21 08:13 1850 Mar 03 02:04 1850 Mar 03 00:59 1850 Mar 07 06:14 1850 Mar 07 06:14 1850 Mar 17 09:03 1850 Apr 10 13:22 1850 Apr 10 13:22 1850 Apr 30 08:22 1850 May 04 21:57 1850 May 29 11:15 1850 Jun 23 06:05 1850 Jul 18 08:34	15° \$\alpha 55'02 0° \$\mathbf{n}\$ 12° \$\mathbf{n}\$ 10'44 12° \$\mathbf{n}\$ 707'21 17° \$\mathbf{n}\$ 23'21 0° \$\mathbf{n}\$ 0° \$\mathbf{n}\$ 24° \$\mathbf{n}\$ 21'58 24° \$\mathbf{n}\$ 23'40 0° \$\mathbf{n}\$	1°26'01
desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	1847 Mar 27 03:27 1847 Apr 02 20:30 1847 Apr 20 19:02 1847 May 15 22:22 1847 Jun 10 19:49 1847 Jul 08 03:19 1847 Jul 25 20:34 1847 Aug 08 08:48 1847 Sep 03 10:46 1847 Sep 12 17:00 1847 Sep 30 04:43 1847 Oct 03 16:34 1847 Oct 04 00:18 1847 Oct 04 13:56 1847 Oct 04 13:56 1847 Oct 24 19:29 1847 Nov 04 22:38 1847 Nov 13 13:02 1847 Dec 09 09:21	0°8 8°812'52 0°¶ 0°Ω 0°№ 15°№30'28 17°№52'06 0°Ω 16°Ω07'58 17°Ω41'02 11°Ω56'48 9°Ω50'05 9°Ω38'14 9°Ω17'20 7°Ω20'43 1°Ω49'08 4°Ω08'35 8°Ω34'07 0°∭	-4.8m -8°05'04 8°04'08 0.27785 AU -4.9m	desc. node morning set superior conj minimum elong max. Earth dist. evening rise	1849 Sep 17 15:32 1849 Sep 29 13:29 1849 Oct 24 08:12 1849 Nov 17 14:33 1849 Dec 11 14:40 1850 Jan 04 12:21 1850 Jan 07 04:56 1850 Jan 20 21:14 1850 Jan 28 09:44 1850 Feb 21 08:13 1850 Mar 03 02:04 1850 Mar 03 00:59 1850 Mar 07 06:14 1850 Mar 17 09:03 1850 Apr 10 13:22 1850 Apr 10 13:22 1850 Apr 30 08:22 1850 May 04 21:57 1850 May 29 11:15 1850 Jun 23 06:05	15° \$\alpha 55'02 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 20° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 12° \$\mathbf{m}\$ 10'44 12° \$\mathbf{m}\$ 23'21 0° \$\mathbf{m}\$ 1° \$\mathbf{m}\$ 23'21 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 1° \$\mathbf{m}\$ 23'40 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$	1°26'01

	1950 Cap 09 11:09	0° M			1952 Fab. 11. 16:40	0° ≈	
	1850 Sep 08 11:08 1850 Oct 06 23:11	0°11℃ 0° √ 7			1853 Feb 11 16:40 1853 Mar 07 19:56	0 ≈ 0°)	
evening max el	1850 Oct 00 23:11 1850 Oct 07 00:36	0° ₹ 103′29	46°46'19		1853 Apr 01 00:21	0°Υ	
evening max er	1850 Nov 15 12:53	0°る	40 40 17	morning set	1853 Apr 06 03:36	6° Υ 21'34	
greatest brilliancy	1850 Nov 16 10:59	0°る20'09	-4.9m	morning set	1853 Apr 25 06:42	0°8	
retrograde	1850 Nov 26 03:17	2° る 06'00	1.7111		1005 11p1 25 00:12	° O	
1011081440	1850 Dec 06 07:58	30°R. ✓		superior conj	1853 May 13 23:50	23° 8 04'01	-0°32'12
evening set	1850 Dec 10 10:21	28° ₹ 04'17		minimum elong	1853 May 14 06:22	23° 8 24'06	
asc. node	1850 Dec 11 00:59	27° ∡ ⁴44'39		max. Earth dist.	1853 May 15 12:19		1.73337 AU
inferior conj	1850 Dec 16 16:18	24° ∡ ¹25'44	1°27'50		1853 May 19 15:04	0° Ⅱ	
minimum elong	1850 Dec 16 12:58	24° ∡ °30'49	1°26'46	asc. node	1853 May 27 20:18	10° Ⅱ 06′19	
min. Earth dist.	1850 Dec 16 11:46	24° ∡ ³32'39	0.26414 AU		1853 Jun 13 00:57	0 \circ \odot	
morning rise	1850 Dec 22 15:33	20° ∡ 56′06		evening rise	1853 Jun 19 18:17	8°9515'04	
direct	1851 Jan 06 00:50	16° ₰ ⁴49'02			1853 Jul 07 11:51	$0^{\circ}\Omega$	
greatest brilliancy	1851 Jan 15 23:54	18° ∡ ¹41'40	-4.9m		1853 Jul 31 23:56	0° ™	
	1851 Feb 03 20:29	8°0			1853 Aug 25 14:21	0∘ ত	
morning max el	1851 Feb 25 07:34	19° る 27'24	46°45'52	desc. node	1853 Sep 16 09:29	26° ≏ 25'08	
	1851 Mar 07 13:19	0° ≈			1853 Sep 19 08:44	0° M	
desc. node	1851 Apr 01 14:24	27° ≈ 31'36			1853 Oct 14 09:21	0° ∡ ¹	
	1851 Apr 03 18:43	0° ∀			1853 Nov 08 21:02	0° ප	
	1851 Apr 29 17:30	0 ° Υ			1853 Dec 05 10:13	0° ≈	
	1851 May 25 03:07	0°8		evening max el	1853 Dec 18 13:28	13° ≈ 53'33	47°18'19
	1851 Jun 19 05:16	Π $^{\circ}0$			1854 Jan 04 11:39	0° ∀	
	1851 Jul 14 01:18	0		asc. node	1854 Jan 07 12:56	2°) 35′11	
asc. node	1851 Jul 23 17:54	11° © 47'31		greatest brilliancy	1854 Jan 28 04:23	15°) 38′09	-4.9m
	1851 Aug 07 15:07	0 $^{\circ}\Omega$		retrograde	1854 Feb 07 13:46	17°) 42′25	
morning set	1851 Aug 24 08:56	20° £ 36′59		evening set	1854 Feb 25 09:31	11°) 30′58	
	1851 Aug 31 22:55	0°Щ		inferior conj	1854 Feb 28 11:34	9°) 36′08	8°48'07
	1851 Sep 25 02:02	0∘ ⊽		minimum elong	1854 Feb 28 09:53	9°) 38'44	8°48'05
max. Earth dist.	1851 Sep 27 01:14	2° £ 27'14	1.72112 AU	min. Earth dist.	1854 Feb 27 19:04	10° 米 01'57	0.27663 AU
				morning rise	1854 Mar 03 10:28	7°) (46'27	
superior conj	1851 Sep 30 08:29		1°19'27	direct	1854 Mar 21 05:23	1°) 41′03	
minimum elong	1851 Sep 30 15:00	6° £ 54'52	1°19′20	greatest brilliancy	1854 Mar 30 07:19	3°) 13′51	-4.8m
	1851 Oct 19 02:17	0°M		desc. node	1854 Apr 29 02:12	22°) (48'48	
evening rise	1851 Nov 08 08:55	25°M23'12			1854 May 06 22:18	0°Υ 2° 0 02 112 5	45000145
desc. node	1851 Nov 12 07:20	0° 🖈 18'46		morning max el	1854 May 09 13:37	2° Υ 31'35	46°02'45
	1851 Nov 12 01:20	0° ₹			1854 Jun 05 02:45	0° B	
	1851 Dec 06 00:14	0°る 0°≈			1854 Jul 01 22:57	0° ©	
	1851 Dec 30 00:04 1852 Jan 23 02:52	0 ≈		asc. node	1854 Jul 27 18:22 1854 Aug 20 05:43	0 95 27°959'34	
	1852 Feb 16 12:18	0°Υ		asc. node	1854 Aug 21 21:39	27 3 3934 0° Ω	
asc. node	1852 Mar 04 10:33	20° Υ 28'25			1854 Sep 15 12:30	0°m)	
asc. node	1852 Mar 12 10:23	0° 8			1854 Oct 09 18:10	0∘ ত	
	1852 Apr 07 07:23	0°∏			1854 Nov 02 18:04	0° m .	
	1852 May 05 04:00	0°©		morning set	1854 Nov 03 03:32	0°M29'38	
evening max el	1852 May 12 04:37	6°\$56'43	45°28'18	morning sec	1854 Nov 26 15:08	0° ∡ 7	
e venning man er	1852 Jun 09 11:12	0° N	.5 2010	desc. node	1854 Dec 09 19:11	16° х 34′03	
greatest brilliancy	1852 Jun 19 02:44	4° Ω 46'14	-4.7m				
desc. node	1852 Jun 23 23:58	6° Ω 12'37		superior conj	1854 Dec 13 11:10	21° √ 10'52	-0°08'47
retrograde	1852 Jun 29 20:53	6° Ω 51'26		minimum elong	1854 Dec 13 08:50	21° 尽 °03'30	0°08'41
evening set	1852 Jul 15 17:04	2° Ω 04'38		behind sun begin	1854 Dec 12 10:14	19° ∡ ′52′23	
-	1852 Jul 19 05:37	30° ₹ 5		behind sun end	1854 Dec 14 07:26	22° ∡ 14'37	
inferior conj	1852 Jul 21 09:02	28° 5 40'19	-5°51'39	max. Earth dist.	1854 Dec 13 17:07	21° ∡ °29'34	1.71078 AU
minimum elong	1852 Jul 20 23:11	28° © 55'41	5°49'32		1854 Dec 20 11:20	ರ°ರ	
min. Earth dist.	1852 Jul 21 08:53	28° © 40'34	0.28986 AU		1855 Jan 13 07:51	0° ≈	
morning rise	1852 Jul 26 05:04	25° © 43'27		evening rise	1855 Jan 23 23:25	13° ≈ 22′20	
direct	1852 Aug 11 23:45	20°522'43			1855 Feb 06 05:57	0° ∀	
greatest brilliancy	1852 Aug 22 15:29	22° 5 24'58	-4.8m		1855 Mar 02 07:29	0 ° Υ	
	1852 Sep 05 15:55	$0^{\circ}\Omega$			1855 Mar 26 14:54	0°8	
morning max el	1852 Sep 30 10:49	21° Ω 13′24	46°12'15	asc. node	1855 Apr 01 22:33	7° 8 43'57	
	1852 Oct 09 02:55	0° m			1855 Apr 20 06:54	Π °0	
asc. node	1852 Oct 15 03:20	6° Mp 21′36			1855 May 15 11:03	0ം ತಾ	
	1852 Nov 05 07:38	0∘ ত			1855 Jun 10 10:08	$0^{\circ}\Omega$	
	1852 Nov 30 16:36	0°M			1855 Jul 07 21:27	0° m)	
	1852 Dec 25 06:52	0° ∡		desc. node	1855 Jul 22 11:48	14° m 40'52	
_	1853 Jan 18 13:09	0° ろ		evening max el	1855 Jul 23 11:24	15° m 37'24	45°38'06
desc. node	1853 Feb 03 16:47	20° る 03'31			1855 Aug 08 18:01	0∘ ⊽	

greatest brilliancy	1855 Aug 31 23:32	13° ≏ 49'04	1 9m	superior conj	1858 Feb 28 13:54	9°) 43'43	1025146
retrograde	1855 Sep 10 06:13	15° £ 22'14	-4.0111	minimum elong	1858 Feb 28 11:48	9° X 4343	
evening set	1855 Sep 27 20:53	9° £ 34'34		max. Earth dist.	1858 Mar 04 16:43	14°) 52'13	1.71848 AU
inferior conj	1855 Oct 01 06:35	7° ≏ 30'41	-8°12'50	max. Earth dist.	1858 Mar 16 19:56	0°Υ	1.71040710
minimum elong	1855 Oct 01 13:40	7° - 2011'47		evening rise	1858 Apr 09 05:59	29°Υ03'33	
min. Earth dist.	1855 Oct 02 03:27	6° £ 58'37		evening rise	1858 Apr 10 00:15	0°8	
morning rise	1855 Oct 05 06:12	5° £ 05'56	0.270.7110	asc. node	1858 Apr 29 10:32	23° 8 56'52	
	1855 Oct 17 09:18	30°R.™)			1858 May 04 08:53	0°II	
direct	1855 Oct 22 10:26	29° m 29'02			1858 May 28 22:22	0°೯	
	1855 Oct 27 13:48	0∘ <u>⊽</u>			1858 Jun 22 17:37	$0^{\circ}\Omega$	
greatest brilliancy	1855 Nov 02 12:51	1° ≏ 47'21	-4.9m		1858 Jul 17 20:54	0° m/	
asc. node	1855 Nov 12 15:12	7° ჲ 09'30			1858 Aug 12 12:56	0∘ ⊽	
	1855 Dec 09 09:22	0°M,		desc. node	1858 Aug 18 23:33	7° Ω 23'25	
morning max el	1855 Dec 12 02:58	2°M45'34	46°52'15		1858 Sep 08 03:44	0° M .	
•	1856 Jan 06 05:12	0° ∡ ¹		evening max el	1858 Oct 04 12:42	27°M37'12	46°43'54
	1856 Jan 31 23:14	0°ප			1858 Oct 06 23:18	0°⊀	
	1856 Feb 25 23:28	0° ≈		greatest brilliancy	1858 Nov 14 00:23	27° ₹ 52'05	-4.9m
desc. node	1856 Mar 03 04:34	7° ≈ 31'16		retrograde	1858 Nov 23 15:02	29° х 36′49	
	1856 Mar 21 16:30	0°) €		evening set	1858 Dec 07 22:28	25° ∡ ³34'51	
	1856 Apr 15 06:46	0 ° Υ		asc. node	1858 Dec 10 03:03	24° ₹ 22'15	
	1856 May 09 20:13	$_{0\circ}$ 8		inferior conj	1858 Dec 14 04:22	21° ₹ 56'59	1°03'20
	1856 Jun 03 09:15	$\Pi^{\circ}0$		minimum elong	1858 Dec 14 01:57	22° ₹ 00'40	1°02'32
morning set	1856 Jun 14 06:53	13° Ⅲ 20′33		min. Earth dist.	1858 Dec 14 01:39	22° ₹ 01'08	0.26415 AU
asc. node	1856 Jun 24 08:07	25° Ⅱ 39'29		morning rise	1858 Dec 20 05:17	18° ≯ 25'18	
	1856 Jun 27 21:05	0 \circ \odot		direct	1859 Jan 03 12:36	14° √ 19'48	
max. Earth dist.	1856 Jul 18 09:57	25° © 14'22	1.73428 AU	greatest brilliancy	1859 Jan 13 14:23	16° ∡ 14'59	-4.9m
					1859 Feb 04 10:19	ರ°0	
superior conj	1856 Jul 20 17:25	28° © 05'05	0°57'14	morning max el	1859 Feb 22 20:31	17° る 01'49	46°47'09
minimum elong	1856 Jul 20 08:43	27° 5 38'16	0°56'55		1859 Mar 07 08:48	0° ≈	
	1856 Jul 22 06:44	$0^{\circ}\Omega$		desc. node	1859 Mar 31 16:36	26° ≈ 54'11	
	1856 Aug 15 14:01	O° m p			1859 Apr 03 09:50	0°) €	
evening rise	1856 Aug 25 15:43	12° m 27'26			1859 Apr 29 06:40	$0^{\circ}\mathbf{\Upsilon}$	
	1856 Sep 08 19:45	0∘ ত			1859 May 24 15:12	0°8	
	1856 Oct 03 01:12	0°M			1859 Jun 18 16:40	Π $^{\circ}0$	
desc. node	1856 Oct 13 21:29	13°M25'10			1859 Jul 13 12:17	0 \circ \odot	
	1856 Oct 27 07:25	0° ∡ ¹		asc. node	1859 Jul 22 19:54	11° © 20'28	
	1856 Nov 20 15:22	0°ප			1859 Aug 07 01:51	$0^{\circ}\Omega$	
	1856 Dec 15 03:13	0° ≈		morning set	1859 Aug 22 02:11	18° Ω 29'02	
	1857 Jan 09 00:43	0° ℋ			1859 Aug 31 09:35	0° ™	
	1857 Feb 03 21:17	$0^{\circ}\mathbf{\Upsilon}$			1859 Sep 24 12:44	0∘ ⊽	
asc. node	1857 Feb 04 00:40	0° Ƴ 09'32		max. Earth dist.	1859 Sep 24 18:51	0° ≏ 19'05	1.72167 AU
evening max el	1857 Feb 28 05:21	26° Ƴ 01'12	46°26'36				
	1857 Mar 04 06:24	9° 8		superior conj	1859 Sep 28 00:10	4° ≙ 20'13	1°20'35
greatest brilliancy	1857 Apr 08 06:34	25° 8 45'06	-4.8m	minimum elong	1859 Sep 28 06:04	4° £ 38'36	1°20'30
retrograde	1857 Apr 19 01:13	27° 8 53'20			1859 Oct 18 13:07	0° M	
evening set	1857 May 04 19:57	23° 8 02'31		evening rise	1859 Nov 05 21:15	22°M57'18	
inferior conj	1857 May 10 09:39	19° 8 38'12		desc. node	1859 Nov 11 09:28	29°M51'06	
minimum elong	1857 May 10 17:08	19° 8 26'24	3°41'25		1859 Nov 11 12:19	0° ∡	
min. Earth dist.	1857 May 10 10:18	19° 8 37'11	0.28708 AU		1859 Dec 05 11:23	0°る	
morning rise	1857 May 16 14:39	15° 8 53'05			1859 Dec 29 11:26	0° ≈	
desc. node	1857 May 26 14:01	11° 8 57'45			1860 Jan 22 14:29	0° ∀	
direct	1857 May 31 20:21	11° 8 24'59		_	1860 Feb 16 00:22	0° Υ	
greatest brilliancy	1857 Jun 10 21:06	13° 8 14'04	-4.7m	asc. node	1860 Mar 03 12:38	19° Ƴ 57'01	
	1857 Jul 07 05:35	0°II			1860 Mar 11 23:18	0°8	
morning max el	1857 Jul 19 12:59	11° Ⅱ 05'59	45°43'36		1860 Apr 06 22:10	0° I I	
	1857 Aug 07 06:40	0°©			1860 May 04 23:50	0.00	45000105
	1857 Sep 03 11:01	0°N		evening max el	1860 May 09 20:40	4°9546'55	45°29'25
asc. node	1857 Sep 16 17:37	15° Ω 22'44			1860 Jun 10 22:20	0° Ω	4.7
	1857 Sep 29 02:01	0° ™		greatest brilliancy	1860 Jun 16 17:23	2° Ω 36'13	-4.7m
	1857 Oct 23 20:04	0∘ ™		desc. node	1860 Jun 23 02:01	4° Ω 20'18	
	1857 Nov 17 02:04	0°M₊		retrograde	1860 Jun 27 13:39	4° Ω 43'10	
	1857 Dec 11 01:57	0°⊀ 0°₹		evening set	1860 Jul 13 06:54	29°959'18	
	1858 Jan 03 23:28	0°る			1860 Jul 13 06:24	30°₹©	5026145
desc. node	1858 Jan 06 06:56	2°る54'11		inferior conj	1860 Jul 19 01:17	26°531'30	
morning set	1858 Jan 18 06:45	17°る58'07		minimum elong	1860 Jul 18 15:31	26°5946'41	5°34'36
	1858 Jan 27 20:45	0° ≈		min. Earth dist.	1860 Jul 19 00:22	26°532'55	0.28993 AU
	1858 Feb 20 19:09	0° ∺		morning rise	1860 Jul 24 00:01	23° © 30'58	

direct	1860 Aug 09 16:26	18° © 13'49			1863 Jan 12 18:46	0° ≈	
greatest brilliancy	1860 Aug 20 07:05	20°915'33	4.7m	evening rise	1863 Jan 21 09:41	0 ≈ 10° ≈ 49'35	
greatest brilliancy	1860 Sep 06 08:37	20 3 13 33	-4 ./III	evening rise	1863 Feb 05 16:55	10 ≈ 4933	
marning may al	1860 Sep 08 08:37 1860 Sep 28 03:02	19° Ω 02'23	46°10'45		1863 Mar 01 18:35	0 K 0°Υ	
morning max el	•	0° m	40 1043		1863 Mar 26 02:12	0°8	
asc. node	1860 Oct 08 21:38	5° Mp 40'29		aga mada	1863 Apr 01 00:42	7° 8 15'46	
asc. node	1860 Oct 14 05:31	ე° Ω		asc. node		0°Ⅱ	
	1860 Nov 04 22:14	0° M			1863 Apr 19 18:38	0ം© 0∘Ti	
	1860 Nov 30 05:35				1863 May 14 23:37		
	1860 Dec 24 19:03	0° ∡			1863 Jun 10 00:22	0° Q	
	1861 Jan 18 00:52	0°る			1863 Jul 07 15:45	0° m)	
desc. node	1861 Feb 02 18:47	19° る 34'01		evening max el	1863 Jul 21 01:27	13° m) 21'38	45°36'28
	1861 Feb 11 04:02	0° ≈		desc. node	1863 Jul 21 13:48	13° m 51'02	
	1861 Mar 07 07:01	0° ∀			1863 Aug 09 05:56	0∘ ত	
	1861 Mar 31 11:12	0° Υ		greatest brilliancy	1863 Aug 29 13:02	11° ≏ 32'09	-4.8m
morning set	1861 Apr 03 18:02	4° Y 04'07		retrograde	1863 Sep 07 19:22	13° ≏ 05'03	
	1861 Apr 24 17:23	9° 8		evening set	1863 Sep 25 13:02	7° ≙ 14'13	
				inferior conj	1863 Sep 28 20:51	5° ≏ 12'54	-8°19'45
superior conj	1861 May 11 16:26	20° 8 54'35		minimum elong	1863 Sep 29 03:14	5° ഫ 03'04	8°19'09
minimum elong	1861 May 11 23:30	21° 8 16'23	0°34'56	min. Earth dist.	1863 Sep 29 17:30	4° ≙ 41'05	0.27912 AU
max. Earth dist.	1861 May 13 09:33	23° 8 01'13	1.73306 AU	morning rise	1863 Oct 02 17:10	2° ≙ 52'37	
	1861 May 19 01:40	Π $^{\circ}0$			1863 Oct 08 02:58	30° ₽, M)	
asc. node	1861 May 26 22:19	9° Ⅱ 39'56		direct	1863 Oct 20 01:00	27° m 10'20	
	1861 Jun 12 11:35	0 \circ \odot		greatest brilliancy	1863 Oct 31 03:47	29° m 28'13	-4.9m
evening rise	1861 Jun 17 12:56	6° © 12'23			1863 Nov 01 10:28	0∘ ত	
	1861 Jul 06 22:37	$0^{\circ}\Omega$		asc. node	1863 Nov 11 17:10	5° ≙ 48'17	
	1861 Jul 31 10:58	o° mp			1863 Dec 09 08:00	0° M .	
	1861 Aug 25 01:47	0∘ ⊽		morning max el	1863 Dec 09 16:06	0°M20'36	46°51'28
desc. node	1861 Sep 15 11:40	25° ≏ 55'30		Č	1864 Jan 05 21:25	0° ∡ ¹	
	1861 Sep 18 20:50	0°M			1864 Jan 31 13:04	0°ರ	
	1861 Oct 13 22:31	0° ∡ 7			1864 Feb 25 12:06	0° ≈	
	1861 Nov 08 12:00	0°⋜		desc. node	1864 Mar 02 06:44	7° ≈ 00'07	
	1861 Dec 05 05:02	0° ≈			1864 Mar 21 04:23	0° ∀	
evening max el	1861 Dec 16 05:07	11° ≈ 34'23	47°18'38		1864 Apr 14 18:10	0° Υ	
o voiming main or	1862 Jan 04 21:21	0° ∀	., 1050		1864 May 09 07:17	0°8	
asc. node	1862 Jan 06 14:54	1° ¥ 24'57			1864 Jun 02 20:03	0°II	
greatest brilliancy	1862 Jan 25 18:28	13°) 15'24	-4.9m	morning set	1864 Jun 12 00:52	11° Ⅱ 15'51	
retrograde	1862 Feb 05 04:47	15° H 20'08	- 4 .7III	asc. node	1864 Jun 23 10:07	25° Ⅱ 12'54	
evening set	1862 Feb 22 21:55	9° H 11'52		asc. node	1864 Jun 27 07:44	0°95	
min. Earth dist.	1862 Feb 25 07:57		0.27607 AU	max. Earth dist.	1864 Jul 16 04:58	23°©12'33	1.73452 AU
	1862 Feb 26 01:36	7° X 14'32		max. Earth dist.	1604 Jul 10 04.36	23 301233	1.73432 AU
inferior conj				aumorior coni	1064 Iul. 10 11.53	260601120	0054152
minimum elong	1862 Feb 25 23:04	7° ★ 18'30	8°46'17	superior conj	1864 Jul 18 11:52	26°501'28	0°54'53
morning rise	1862 Mar 01 00:27	5°) €25'06		minimum elong	1864 Jul 18 03:14	25°934'56	0°54'34
1.	1862 Mar 13 03:44	30°R≈			1864 Jul 21 17:21	0° N	
direct	1862 Mar 18 19:31	29°≈20'40			1864 Aug 15 00:43	0° M)	
	1862 Mar 24 15:08	0°) (52/21	4.0	evening rise	1864 Aug 23 09:20	10° m/20'09	
greatest brilliancy	1862 Mar 27 19:34	0° ¥ 52′21	-4.8m		1864 Sep 08 06:38	ი∘ ত	
desc. node	1862 Apr 28 04:18	21°) 51'04			1864 Oct 02 12:23	0°M	
	1862 May 06 21:42	0° Υ		desc. node	1864 Oct 12 23:35	12°M56'41	
morning max el	1862 May 07 04:21	0° Υ 16'05	46°04'04		1864 Oct 26 18:58	0° ∡ ′	
	1862 Jun 04 18:45	0°8			1864 Nov 20 03:21	ರ∘ಕ	
	1862 Jul 01 12:19	0°Щ			1864 Dec 14 15:51	0° ≈	
	1862 Jul 27 06:29	0ಂ ತಾ			1865 Jan 08 14:30	0° ∀	
asc. node	1862 Aug 19 07:45	27°531'10		asc. node	1865 Feb 03 02:47	29°) 30′06	
	1862 Aug 21 09:04	$0^{\circ}\Omega$			1865 Feb 03 13:29	0° Υ	
	1862 Sep 14 23:33	0°Щ		evening max el	1865 Feb 25 19:12	23° Y 41'55	46°28'55
	1862 Oct 09 05:03	0∘ ত			1865 Mar 04 06:08	0°8	
morning set	1862 Oct 31 17:16	28° ≏ 08'24		greatest brilliancy	1865 Apr 06 00:01	23° 8 35'13	-4.8m
	1862 Nov 02 04:53	0°M₊		retrograde	1865 Apr 16 17:11	25° 8 42'41	
	1862 Nov 26 01:57	0°⊀		evening set	1865 May 02 14:29	20° 8 48'31	
desc. node	1862 Dec 08 21:11	16° ₰ 06'16		inferior conj	1865 May 08 01:54	17° 8 27'38	4°01'36
				minimum elong	1865 May 08 09:49	17° 8 15'07	3°59'30
superior conj	1862 Dec 10 21:40	18° ∡ ³38'47	-0°04'52	min. Earth dist.	1865 May 08 02:53	17° 8 26'04	0.28689 AU
minimum elong	1862 Dec 10 20:23	18° ∡ ³34'44	0°04'48	morning rise	1865 May 14 05:26	13° 8 44'19	
behind sun begin	1862 Dec 09 19:03	17° ≯ 15′03		desc. node	1865 May 25 16:01	9° 8 31'46	
behind sun end	1862 Dec 11 21:43	19° ∡ 54′26		direct	1865 May 29 11:35	9° 8 14'36	
max. Earth dist.	1862 Dec 10 23:22	18° ≯ ⁴44'08	1.71087 AU	greatest brilliancy	1865 Jun 08 13:00	11° 8 03'54	-4.7m
	1862 Dec 19 22:12	0° ට			1865 Jul 07 10:06	Π $\circ 0$	

mamina may al	1965 Inl. 17 04:02	00 Π 54106	45942121		1969 Mar 11 12:24	00 ~	
morning max el	1865 Jul 17 04:03	8°∏54'06 0°©	45 45 51		1868 Mar 11 12:34	0°Ⅱ 8°0	
	1865 Aug 06 23:39	0° U			1868 Apr 06 13:22 1868 May 04 20:32	0°©	
asc. node	1865 Sep 03 00:49 1865 Sep 15 19:47	0 δι 14° Ω 50'54		evening max el	1868 May 07 13:22	2° © 38'06	45020124
asc. Houe	1865 Sep 28 14:28	0° m		evening max er	1868 Jun 13 05:24	2 3 3800	43 30 34
	1865 Oct 23 07:51	0∘ ত بالا		greatest brilliancy	1868 Jun 14 08:25	0° Ω 26'14	4.7m
	1865 Nov 16 13:31	0° M		desc. node	1868 Jun 22 04:01	2°Ω23'16	-4. / 111
	1865 Dec 10 13:14	0° ⊼ ¹		retrograde	1868 Jun 25 06:23	$2^{\circ}\Omega 34'16$	
	1866 Jan 03 10:36	°ਣ 0°ਣ		retrograde	1868 Jul 06 16:17	30°RS	
desc. node	1866 Jan 05 08:58	2°る25'38		evening set	1868 Jul 10 21:00	27° 9 53'25	
morning set	1866 Jan 15 16:32	2 3 23 36		inferior conj	1868 Jul 16 17:34	24° © 22'07	5°21'30
morning set	1866 Jan 27 07:46	0°≈		minimum elong	1868 Jul 16 08:00	24°937'02	
	1866 Feb 20 06:05	0 ≈ 0° H		min. Earth dist.	1868 Jul 16 15:55	24°937'02 24°924'42	0.28999 AU
	1800 Feb 20 00.03	υχ			1868 Jul 21 18:59	24 3 24 42 21° 9 17'50	0.28999 AU
superior coni	1866 Feb 26 01:56	7° 升 17′20	1025121	morning rise direct	1868 Aug 07 09:26	16°904'32	
superior conj minimum elong	1866 Feb 25 22:49	7° ₩ 07'37		greatest brilliancy	1868 Aug 17 22:16		-4.7m
max. Earth dist.	1866 Mar 02 01:40		1.71793 AU	greatest offinality	1868 Sep 06 21:28	0°Ω	-4./111
max. Earth dist.	1866 Mar 16 06:49	12 γ (1021 0° γ	1./1/93 AU	marning may al	•	16° Ω 50'23	46900!12
evening rise		0 ¶ 26° Υ 45'37		morning max el	1868 Sep 25 19:12	0° m	40 09 12
evening rise	1866 Apr 06 20:15	0° 8		asc. node	1868 Oct 08 16:14 1868 Oct 13 07:29	رابا 0 4° الل 58' 17	
asc. node	1866 Apr 09 11:07 1866 Apr 28 12:32	23° 8 29'26		asc. node	1868 Nov 04 12:59	0∘ ⊽	
asc. Houe	1866 May 03 19:50	0° Ⅱ			1868 Nov 29 18:46	0°M	
	•	0°9			1868 Dec 24 07:26	0° 17⊓ 0° 7⊓	
	1866 May 28 09:35	0° U				0 ×. ਨਾ	
	1866 Jun 22 05:18 1866 Jul 17 09:25	0° m p		desc. node	1869 Jan 17 12:48 1869 Feb 01 20:54	0 3 19° る 04'13	
		0∘ ت بالا		desc. node	1869 Feb 10 15:39	19 3 04 13	
daga mada	1866 Aug 12 02:56	0 <u>≈</u> 6° ≏ 48'17				0 ≈ 0° ∀	
desc. node	1866 Aug 18 01:43	0°M			1869 Mar 06 18:24	0 X 0°Υ	
avanina may al	1866 Sep 07 20:43	25°M12'31	46°41'35	marning sat	1869 Mar 30 22:22	1° Υ 45'25	
evening max el	1866 Oct 02 01:23	23 IIG1231 0° √	40 41 33	morning set	1869 Apr 01 08:23	0° 8	
	1866 Oct 07 00:41		4.0		1869 Apr 24 04:23	0.0	
greatest brilliancy	1866 Nov 11 13:15	25° 🖈 23'32	-4.9m		10/0 M 00 00-01	100 44100	0929116
retrograde	1866 Nov 21 03:20	27° ₹ 07'52 23° ₹ 05'06		superior conj	1869 May 09 09:01	18° と 44'09 19° と 07'31	0°37'55
evening set	1866 Dec 05 10:54			minimum elong	1869 May 09 16:36		
asc. node	1866 Dec 09 05:04	20° 🗷 57'38	0020141	max. Earth dist.	1869 May 11 07:34	21° 8 07'30 0° I I	1.73269 AU
inferior conj	1866 Dec 11 16:30	19° ₹ 28'04	0°38'41	1-	1869 May 18 12:35	0°Щ 9°Щ12'42	
minimum elong	1866 Dec 11 15:01	19° 🗷 30'19	0°38'12	asc. node	1869 May 26 00:22	9° <u>ш</u> 12′42 0° ©	
min. Earth dist.	1866 Dec 11 15:16	19° ₹ 29'55	0.26423 AU		1869 Jun 11 22:31		
morning rise	1866 Dec 17 18:56	15° 🖈 54'46		evening rise	1869 Jun 15 07:37	4°908'52	
direct	1867 Jan 01 01:01	11° 🖈 50'22	4.0		1869 Jul 06 09:41	0° N	
greatest brilliancy	1867 Jan 11 04:28	13° メ 47'33 0°る	-4.9m		1869 Jul 30 22:20	0 ்⊽ 0° ம்	
·	1867 Feb 04 20:48		4.00.4.010.77	1 1	1869 Aug 24 13:37		
morning max el	1867 Feb 20 10:39	14°₹38'47	46°48'27	desc. node	1869 Sep 14 13:40	25° £ 24'02	
1 1	1867 Mar 07 03:53	0°≈			1869 Sep 18 09:24	0°M 0°. 7	
desc. node	1867 Mar 30 18:39	26°≈16'23			1869 Oct 13 12:12	0° ₹	
	1867 Apr 03 00:51	0° ℋ 0° Ƴ			1869 Nov 08 03:35	ව°0	
	1867 Apr 28 19:50				1869 Dec 05 00:48	0°≈	47010152
	1867 May 24 03:20	8°0		evening max el	1869 Dec 13 20:22	9°≈13'00	47°18'53
	1867 Jun 18 04:11	0° I I		aga mg J-	1870 Jan 05 10:59	0°) (
	1867 Jul 12 23:25	0°©		asc. node	1870 Jan 05 17:01	0°) 11′51	4.0.
asc. node	1867 Jul 21 22:01	10°953'10		greatest brilliancy	1870 Jan 23 08:59	10° ¥ 51'53	-4.9M
	1867 Aug 06 12:48	0°Ω 16°Ω20!25		retrograde	1870 Feb 02 19:19	12° ¥ 56'12 6° ¥ 52'01	
morning set	1867 Aug 19 19:27	16° Ω 20'35		evening set min. Earth dist.	1870 Feb 20 09:51		0.27550 ATT
E d Ed	1067 4 20 20 20						0.27550 AU
max. Earth dist.	1867 Aug 30 20:28	0° Т р	1 70017 411		1870 Feb 22 21:02		
	1867 Sep 22 11:34	28° m 07'32	1.72217 AU	inferior conj	1870 Feb 23 15:32	4° ¥ 51'30	8°43'42
	-		1.72217 AU	inferior conj minimum elong	1870 Feb 23 15:32 1870 Feb 23 12:10	4° ┼ 51'30 4° ┼ 56'45	8°43'42
	1867 Sep 22 11:34 1867 Sep 23 23:39	28° M 07'32 0° <u>a</u>		inferior conj	1870 Feb 23 15:32 1870 Feb 23 12:10 1870 Feb 26 14:45	4°¥51'30 4°¥56'45 3°¥01'28	8°43'42
superior conj	1867 Sep 22 11:34 1867 Sep 23 23:39 1867 Sep 25 15:54	28° № 07'32 0° <u>Ω</u> 2° <u>Ω</u> 05'31	1°21'35	inferior conj minimum elong morning rise	1870 Feb 23 15:32 1870 Feb 23 12:10 1870 Feb 26 14:45 1870 Mar 04 03:09	4°¥51'30 4°¥56'45 3°¥01'28 30°R≈	8°43'42
	1867 Sep 22 11:34 1867 Sep 23 23:39 1867 Sep 25 15:54 1867 Sep 25 21:07	28° № 07'32 0° Ω 2° Ω 05'31 2° Ω 21'48	1°21'35	inferior conj minimum elong morning rise direct	1870 Feb 23 15:32 1870 Feb 23 12:10 1870 Feb 26 14:45 1870 Mar 04 03:09 1870 Mar 16 09:21	4°¥51'30 4°¥56'45 3°¥01'28 30°R≈ 26°≈58'51	8°43'42 8°43'32
superior conj minimum elong	1867 Sep 22 11:34 1867 Sep 23 23:39 1867 Sep 25 15:54 1867 Sep 25 21:07 1867 Oct 18 00:07	28° m 07'32 0° <u>a</u> 2° <u>a</u> 05'31 2° <u>a</u> 21'48 0° m	1°21'35	inferior conj minimum elong morning rise	1870 Feb 23 15:32 1870 Feb 23 12:10 1870 Feb 26 14:45 1870 Mar 04 03:09 1870 Mar 16 09:21 1870 Mar 25 08:04	4°¥51'30 4°¥56'45 3°¥01'28 30°R≈ 26°≈58'51 28°≈29'29	8°43'42
superior conj minimum elong evening rise	1867 Sep 22 11:34 1867 Sep 23 23:39 1867 Sep 25 15:54 1867 Sep 25 21:07 1867 Oct 18 00:07 1867 Nov 03 09:40	28° m 07'32 0° <u>a</u> 2° <u>a</u> 05'31 2° <u>a</u> 21'48 0° m 20° m 31'09	1°21'35	inferior conj minimum elong morning rise direct greatest brilliancy	1870 Feb 23 15:32 1870 Feb 23 12:10 1870 Feb 26 14:45 1870 Mar 04 03:09 1870 Mar 16 09:21 1870 Mar 25 08:04 1870 Mar 29 06:20	4°\t51'30 4°\t56'45 3°\t01'28 30°\ta\times 26°\times58'51 28°\times29'29 0°\t	8°43'42 8°43'32
superior conj minimum elong	1867 Sep 22 11:34 1867 Sep 23 23:39 1867 Sep 25 15:54 1867 Sep 25 21:07 1867 Oct 18 00:07 1867 Nov 03 09:40 1867 Nov 10 11:25	28° m 07'32 0° <u>a</u> 2° <u>a</u> 05'31 2° <u>a</u> 21'48 0° m 20° m 31'09 29° m 22'16	1°21'35	inferior conj minimum elong morning rise direct greatest brilliancy desc. node	1870 Feb 23 15:32 1870 Feb 23 12:10 1870 Feb 26 14:45 1870 Mar 04 03:09 1870 Mar 16 09:21 1870 Mar 25 08:04 1870 Mar 29 06:20 1870 Apr 27 06:15	4° ★ 51'30 4° ★ 56'45 3° ★ 01'28 30° ₹≈ 26° ≈ 58'51 28° ≈ 29'29 0° ★ 20° ★ 53'03	8°43'42 8°43'32 -4.8m
superior conj minimum elong evening rise	1867 Sep 22 11:34 1867 Sep 23 23:39 1867 Sep 25 15:54 1867 Sep 25 21:07 1867 Oct 18 00:07 1867 Nov 03 09:40 1867 Nov 10 11:25 1867 Nov 10 23:28	28° m 07'32 0° <u>a</u> 2° <u>a</u> 05'31 2° <u>a</u> 21'48 0° m 20° m 31'09 29° m 22'16 0° x	1°21'35	inferior conj minimum elong morning rise direct greatest brilliancy	1870 Feb 23 15:32 1870 Feb 23 12:10 1870 Feb 26 14:45 1870 Mar 04 03:09 1870 Mar 16 09:21 1870 Mar 25 08:04 1870 Mar 29 06:20 1870 Apr 27 06:15 1870 May 04 18:10	4°\t51'30 4°\t56'45 3°\t701'28 30°\t8\times 26°\times 58'51 28°\times 29'29 0°\t7 20°\t753'03 27°\t756'54	8°43'42 8°43'32
superior conj minimum elong evening rise	1867 Sep 22 11:34 1867 Sep 23 23:39 1867 Sep 25 15:54 1867 Sep 25 21:07 1867 Oct 18 00:07 1867 Nov 03 09:40 1867 Nov 10 11:25 1867 Nov 10 23:28 1867 Dec 04 22:45	28° № 07'32 0° <u>a</u> 2° <u>a</u> 05'31 2° <u>a</u> 21'48 0° M 20° M 31'09 29° M 22'16 0° ズ	1°21'35	inferior conj minimum elong morning rise direct greatest brilliancy desc. node	1870 Feb 23 15:32 1870 Feb 23 12:10 1870 Feb 26 14:45 1870 Mar 04 03:09 1870 Mar 16 09:21 1870 Mar 25 08:04 1870 Mar 29 06:20 1870 Apr 27 06:15 1870 May 04 18:10 1870 May 06 20:37	4° ★51'30 4° ★56'45 3° ★01'28 30° ₹≈ 26° ≈58'51 28° ≈29'29 0° ★ 20° ★53'03 27° ★56'54 0° ♥	8°43'42 8°43'32 -4.8m
superior conj minimum elong evening rise	1867 Sep 22 11:34 1867 Sep 23 23:39 1867 Sep 25 15:54 1867 Sep 25 21:07 1867 Oct 18 00:07 1867 Nov 03 09:40 1867 Nov 10 11:25 1867 Nov 10 23:28 1867 Dec 04 22:45 1867 Dec 28 23:02	28° № 07'32 0° ₽ 2° ₽ 05'31 2° ₽ 21'48 0° M 20° M 31'09 29° M 22'16 0° ₹' 0° ₹ 0° ₹	1°21'35	inferior conj minimum elong morning rise direct greatest brilliancy desc. node	1870 Feb 23 15:32 1870 Feb 23 12:10 1870 Feb 26 14:45 1870 Mar 04 03:09 1870 Mar 16 09:21 1870 Mar 25 08:04 1870 Mar 29 06:20 1870 Apr 27 06:15 1870 May 04 18:10 1870 May 06 20:37 1870 Jun 04 10:54	4° ₩51'30 4° ₩56'45 3° ₩01'28 30° № 26° ≈58'51 28° ≈29'29 0° ₩ 20° ₩53'03 27° ₩56'54 0° Ψ 0° ₩	8°43'42 8°43'32 -4.8m
superior conj minimum elong evening rise	1867 Sep 22 11:34 1867 Sep 23 23:39 1867 Sep 25 15:54 1867 Sep 25 21:07 1867 Oct 18 00:07 1867 Nov 03 09:40 1867 Nov 10 11:25 1867 Nov 10 23:28 1867 Dec 04 22:45 1867 Dec 28 23:02 1868 Jan 22 02:23	28° № 07'32 0° ₽ 2° ₽ 05'31 2° ₽ 21'48 0° M 20° M 31'09 29° M 22'16 0° ₹ 0° ₹ 0° ₹ 0° ₹	1°21'35	inferior conj minimum elong morning rise direct greatest brilliancy desc. node	1870 Feb 23 15:32 1870 Feb 23 12:10 1870 Feb 26 14:45 1870 Mar 04 03:09 1870 Mar 16 09:21 1870 Mar 25 08:04 1870 Mar 29 06:20 1870 Apr 27 06:15 1870 May 04 18:10 1870 May 06 20:37 1870 Jun 04 10:54 1870 Jul 01 01:57	4° ₩551'30 4° ₩56'45 3° ₩01'28 30° R≈ 26° ≈58'51 28° ≈29'29 0° ₩ 20° ₩53'03 27° ₩56'54 0° Ψ 0° ₩ 0° ₩	8°43'42 8°43'32 -4.8m
superior conj minimum elong evening rise	1867 Sep 22 11:34 1867 Sep 23 23:39 1867 Sep 25 15:54 1867 Sep 25 21:07 1867 Oct 18 00:07 1867 Nov 03 09:40 1867 Nov 10 11:25 1867 Nov 10 23:28 1867 Dec 04 22:45 1867 Dec 28 23:02	28° № 07'32 0° ₽ 2° ₽ 05'31 2° ₽ 21'48 0° M 20° M 31'09 29° M 22'16 0° ₹' 0° ₹ 0° ₹	1°21'35	inferior conj minimum elong morning rise direct greatest brilliancy desc. node	1870 Feb 23 15:32 1870 Feb 23 12:10 1870 Feb 26 14:45 1870 Mar 04 03:09 1870 Mar 16 09:21 1870 Mar 25 08:04 1870 Mar 29 06:20 1870 Apr 27 06:15 1870 May 04 18:10 1870 May 06 20:37 1870 Jun 04 10:54	4° ₩51'30 4° ₩56'45 3° ₩01'28 30° № 26° ≈58'51 28° ≈29'29 0° ₩ 20° ₩53'03 27° ₩56'54 0° Ψ 0° ₩	8°43'42 8°43'32 -4.8m

	1870 Aug 20 20:47	$0^{\circ}\Omega$			1873 Feb 03 06:23	0°Υ	
	1870 Sep 14 10:55	0° m)		evening max el	1873 Feb 23 08:58		46°31'28
	1870 Oct 08 16:16	0∘ <u>ಹ</u>		evening max er	1873 Mar 04 07:31	0°8	10 31 20
morning set	1870 Oct 29 06:48	25° £ 45'15		greatest brilliancy	1873 Apr 03 16:51	21° 8 23'20	-4.8m
Č	1870 Nov 01 16:04	0° M .		retrograde	1873 Apr 14 09:23	23° 8 30'47	
	1870 Nov 25 13:11	0° ∡ ¹		evening set	1873 Apr 30 08:57	18° 8 32'49	
desc. node	1870 Dec 07 23:15	15° ∡ ³37′26		inferior conj	1873 May 05 17:57	15° 8 15'40	4°19'32
				minimum elong	1873 May 06 02:19	15° 8 02'29	4°17'22
superior conj	1870 Dec 08 07:56	16° ∡ 104'47	-0°00'53	min. Earth dist.	1873 May 05 19:06	15° 8 13'52	0.28670 AU
minimum elong	1870 Dec 08 07:43	16° ₰ 04'04	0°00'52	morning rise	1873 May 11 19:54	11° 8 34'37	
behind sun begin	1870 Dec 07 05:35	14° ∡ °41′52		desc. node	1873 May 24 18:07	7° 8 09'16	
behind sun end	1870 Dec 09 09:50	17° ∡ ¹26'15		direct	1873 May 27 02:40	7° 8 02'44	
max. Earth dist.	1870 Dec 08 02:30	15° ∡ ¹47'38	1.71096 AU	greatest brilliancy	1873 Jun 06 04:38	8° 8 52'28	-4.7m
	1870 Dec 19 09:27	0°₹			1873 Jul 07 13:13	Π °0	
	1871 Jan 12 06:02	0° ≈		morning max el	1873 Jul 14 19:52	6° Ⅱ 43'19	45°43'32
evening rise	1871 Jan 18 19:35	8°≈14'36			1873 Aug 06 16:33	0° ©	
	1871 Feb 05 04:15	0° ∀		,	1873 Sep 02 14:41	0° N	
	1871 Mar 01 06:01	0° Ƴ		asc. node	1873 Sep 14 21:42	14° Ω 18'01	
asa mada	1871 Mar 25 13:54 1871 Mar 31 02:40	0° と 6° と 45'53			1873 Sep 28 03:00 1873 Oct 22 19:44	0 ்⊽ 0°™	
asc. node	1871 Apr 19 06:46	0° Ⅱ			1873 Nov 16 01:04	0°M	
	1871 May 14 12:37	0°©			1873 Dec 10 00:35	0° ⊼ ¹	
	1871 Jun 09 15:08	0° Ω			1874 Jan 02 21:51	°ੇਠ	
	1871 Jul 07 10:53	0° m)		desc. node	1874 Jan 04 11:07	0 0 1°る57'02	
evening max el	1871 Jul 18 14:48	11° m) 03'25	45°35'00	morning set	1874 Jan 13 02:07	12° る 47'20	
desc. node	1871 Jul 20 15:58	12° m 59'54			1874 Jan 26 18:57	0° ≈	
	1871 Aug 09 22:20	0∘ <u>⊽</u>			1874 Feb 19 17:12	0° ∀	
greatest brilliancy	1871 Aug 27 02:28	9° ≙ 14'32	-4.8m				
retrograde	1871 Sep 05 08:31	10° ≏ 47'33		superior conj	1874 Feb 23 13:22	4°){ 48′21	-1°24'45
evening set	1871 Sep 23 04:56	4° ≙ 53'35		minimum elong	1874 Feb 23 09:15	4°) ₹35′26	1°24'43
inferior conj	1871 Sep 26 11:11	2° ≏ 54'38	-8°25'46	max. Earth dist.	1874 Feb 27 08:49	9°) 34′12	1.71742 AU
minimum elong	1871 Sep 26 16:50	2° - 45'55	8°25'17		1874 Mar 15 17:52	0 ° Υ	
min. Earth dist.	1871 Sep 27 07:43	2° ഫ 22'58	0.27979 AU	evening rise	1874 Apr 04 09:55	24° Y 25'16	
morning rise	1871 Sep 30 04:27	0° 亞 38'38			1874 Apr 08 22:09	0°8	
	1871 Oct 01 06:56	30°R, Mp		asc. node	1874 Apr 27 14:33	23° 8 01'35	
direct	1871 Oct 17 15:22	24° m/50'53			1874 May 03 06:57	0°П	
greatest brilliancy	1871 Oct 28 19:18	27° m/09'08	-4.9m		1874 May 27 20:56	0°©	
	1871 Nov 03 18:05	0° ⊽			1874 Jun 21 17:09	$\Omega^{\circ}\Omega$	
asc. node	1871 Nov 10 19:14	4° £ 28'47 27° £ 55'06	46950121		1874 Jul 16 22:08	0 ∘ ம 0∘ ம்	
morning max el	1871 Dec 07 05:29 1871 Dec 09 06:14	2/° ≥≥ 3306	40-30-31	desc. node	1874 Aug 11 17:11 1874 Aug 17 03:45	6° £ 12'08	
	1871 Dec 09 00:14 1872 Jan 05 13:47	0° ⊼ 1		desc. Hode	1874 Sep 07 14:07	0°M	
	1872 Jan 31 03:12	°ੇ ਨ		evening max el	1874 Sep 29 15:06	22°M50'40	46°39'23
	1872 Feb 25 01:01	0° ≈		evening max or	1874 Oct 07 03:25	0° √	10 37 23
desc. node	1872 Mar 01 08:49	6°≈27'47		greatest brilliancy	1874 Nov 09 01:45	22° ₹ 55'11	-4.9m
	1872 Mar 20 16:33	0°) €		retrograde	1874 Nov 18 16:07	24° ₹ ³39'21	
	1872 Apr 14 05:50	$0^{\circ}\mathbf{\Upsilon}$		evening set	1874 Dec 02 23:42	20° ∡ ³35'45	
	1872 May 08 18:37	$0^{\circ}B$		asc. node	1874 Dec 08 07:10	17° ∡ ³32′09	
	1872 Jun 02 07:09	$\Pi^{\circ}0$		inferior conj	1874 Dec 09 04:40	16° ₹ 59'34	0°14'00
morning set	1872 Jun 09 18:43	9° Ⅱ 09'44		minimum elong	1874 Dec 09 04:07	17° ∡ °00′23	0°13'50
asc. node	1872 Jun 22 12:15	24° Ⅱ 45'52		transit middle	1874 Dec 09 04:07	17° х 00′23	0°13'50
	1872 Jun 26 18:41	0ංම		transit begin	1874 Dec 09 01:49	17° ∡ °03'53	
max. Earth dist.	1872 Jul 14 00:47	21° © 12'18	1.73474 AU	transit end	1874 Dec 09 06:26	16° ₹ 56'53	
	1050 1 1 1 0 0 0 0 1	2220557106	00.5010.0	min. Earth dist.	1874 Dec 09 04:38	16° ₹ 759'36	0.26433 AU
superior conj	1872 Jul 16 06:21	23°957'06	0°52'28	morning rise	1874 Dec 15 08:25	13° x ⁷ 24'58	
minimum elong	1872 Jul 15 21:51 1872 Jul 21 04:14	23° © 30'57 0° Ω	0-32-07	direct	1874 Dec 29 13:58	9° ҂ 21'37 11° ҂ 19'56	4 0m
	1872 Aug 14 11:40	0° m p		greatest brilliancy	1875 Jan 08 18:03 1875 Feb 05 04:26	0。名	-4 .71Ⅱ
evening rise	1872 Aug 14 11:40 1872 Aug 21 03:13	8° Mp 13'00		morning max el	1875 Feb 18 01:10	0 8 12° る 16'50	46°49'25
5 1 0 mm 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	1872 Sep 07 17:47	0ം ⊽		morning max or	1875 Mar 06 22:29	0°≈	10 17 23
	1872 Oct 01 23:49	0° ™		desc. node	1875 Mar 29 20:36	0 ~ 25° ≈ 38'27	
desc. node	1872 Oct 12 01:34	12°M27'04			1875 Apr 02 15:44	0° ∺	
	1872 Oct 26 06:46	0° ∡ ¹			1875 Apr 28 08:58	0° Υ	
	1872 Nov 19 15:39	0°ಕ			1875 May 23 15:27	0°8	
	1872 Dec 14 04:53	0° ≈			1875 Jun 17 15:39	Π °0	
	1873 Jan 08 04:46	0° ∀			1875 Jul 12 10:30	0 \circ \odot	
asc. node	1873 Feb 02 04:53	28°) 49′04		asc. node	1875 Jul 21 00:05	10° © 25'57	

	1875 Aug 05 23:41	$0^{\circ}\Omega$		retrograde	1878 Jan 31 09:34	10°) 33'37	
morning set	1875 Aug 17 12:36	14° Ω 12'01		evening set	1878 Feb 17 21:32	4°) (33'37'	
morning sec	1875 Aug 30 07:18	0° m)		min. Earth dist.	1878 Feb 20 10:37	2° H 59'49	0.27488 AU
max. Earth dist.	1875 Sep 20 01:59	25° m/49'09	1.72266 AU	inferior conj	1878 Feb 21 05:35	2°) 30'06	8°40'04
	r			minimum elong	1878 Feb 21 01:23	2°) 36'40	8°39'49
superior conj	1875 Sep 23 07:45	29° m 51'25	1°22'28	morning rise	1878 Feb 24 05:31	0°) 38′52	
minimum elong	1875 Sep 23 12:15	0° ഫ 05'28	1°22'24	C	1878 Feb 25 07:37	30°R≈	
_	1875 Sep 23 10:30	0° ت		direct	1878 Mar 13 22:37	24° ≈ 38'40	
	1875 Oct 17 11:03	o° m ₊		greatest brilliancy	1878 Mar 22 21:09	26° ≈ 08'47	-4.8m
evening rise	1875 Oct 31 22:17	18°ML05'54			1878 Mar 31 11:51	0°) €	
desc. node	1875 Nov 09 13:30	28°M54'13		desc. node	1878 Apr 26 08:24	19° ¥ 58'16	
	1875 Nov 10 10:32	0° ≯ ¹		morning max el	1878 May 02 07:20	25° ₭ 37'27	46°06'48
	1875 Dec 04 09:59	ರ∘ರ			1878 May 06 18:02	0 ° Υ	
	1875 Dec 28 10:28	0° ≈			1878 Jun 04 02:18	0° ႘	
	1876 Jan 21 14:07	0° ₩			1878 Jun 30 15:04	Π $^{\circ}0$	
	1876 Feb 15 00:58	$0^{\circ}\Upsilon$			1878 Jul 26 06:50	0 \circ \odot	
asc. node	1876 Mar 01 16:43	18° Ƴ 52′26		asc. node	1878 Aug 17 11:52	26° © 33'46	
	1876 Mar 11 01:45	$0^{\circ}S$			1878 Aug 20 08:07	0 ° Ω	
	1876 Apr 06 04:41	$\Pi^{\circ}0$			1878 Sep 13 21:54	0° m/y	
	1876 May 04 17:55	0 \circ \odot			1878 Oct 08 03:05	0。 ⊽	
evening max el	1876 May 05 06:07	0°\$29'30	45°31'44	morning set	1878 Oct 26 20:21	23° ഫ 23'28	
greatest brilliancy	1876 Jun 12 00:10	28°©17'11	-4.7m		1878 Nov 01 02:53	0°M₊	
	1876 Jun 18 04:46	$0^{\circ}\Omega$			1878 Nov 25 00:02	0°⊀	
desc. node	1876 Jun 21 06:09	0° Ω 22'04		max. Earth dist.	1878 Dec 05 05:41	12° ≯ 52'34	1.71113 AU
retrograde	1876 Jun 22 22:44	0° Ω 25'21				_	
	1876 Jun 27 13:47	30° ₹ 5		superior conj	1878 Dec 05 18:20	13° ∡ ³32′19	0°03'08
evening set	1876 Jul 08 11:13	25° © 47'37		minimum elong	1878 Dec 05 19:08	13° ∡ ³34'53	0°03'05
inferior conj	1876 Jul 14 09:50	22°513'03		behind sun begin	1878 Dec 04 17:20	12° 🖈 13'43	
minimum elong	1876 Jul 14 00:30	22°527'37		behind sun end	1878 Dec 06 20:56	14° ₹ 56'02	
min. Earth dist.	1876 Jul 14 07:43	22°516'20	0.29001 AU	desc. node	1878 Dec 07 01:22	15° ₹ 09'57	
morning rise	1876 Jul 19 13:46	19°504'54			1878 Dec 18 20:21	0° る	
direct	1876 Aug 05 02:10	13°955'40	4.7		1879 Jan 11 16:58	0° ≈ 5° ≈ 40'58	
greatest brilliancy	1876 Aug 15 13:18	15°954'27	-4./m	evening rise	1879 Jan 16 05:35	0°)	
marring may al	1876 Sep 07 06:46	0° Ω 14° Ω 36'56	46907126		1879 Feb 04 15:12 1879 Feb 28 17:04	0° π 0° Υ	
morning max el	1876 Sep 23 10:30 1876 Oct 08 10:10	0° m)	40 0/30		1879 Mar 25 01:09	0° 8	
asc. node	1876 Oct 12 09:33	بران 0 4° m) 17'24		asc. node	1879 Mar 23 01:09 1879 Mar 30 04:44	6° 8 17'43	
asc. node	1876 Nov 04 03:20	۰ ابرا ۱/ کے۔ 0° <u>Ω</u>		asc. node	1879 Apr 18 18:28	0°П	
	1876 Nov 29 07:38	0° m ₊			1879 May 14 01:11	0°e 0 π	
	1876 Dec 23 19:31	0° ∡ 7			1879 Jun 09 05:35	$0 {\circ} \Omega$	
	1877 Jan 17 00:25	0° ਰ			1879 Jul 07 06:05	0° m)	
desc. node	1877 Jan 31 22:56	18°る35'05		evening max el	1879 Jul 16 04:15	8° Mp 46'46	45°33'34
	1877 Feb 10 02:57	0°≈		desc. node	1879 Jul 19 17:59	12° Mp 08'36	
	1877 Mar 06 05:25	0° \			1879 Aug 10 19:37	0∘ ⊽	
morning set	1877 Mar 29 22:48	29° ∺ 27'49		greatest brilliancy	1879 Aug 24 15:32	6° ≏ 57'57	-4.8m
	1877 Mar 30 09:11	0° Ƴ		retrograde	1879 Sep 02 22:11	8° ჲ 31'50	
	1877 Apr 23 15:04	0°8		evening set	1879 Sep 20 20:36	2° ₽ 34'57	
				inferior conj	1879 Sep 24 01:39	0° ჲ 37'56	-8°30'43
superior conj	1877 May 07 01:30	16° 8 34'14	-0°41'13	minimum elong	1879 Sep 24 06:33	0° ჲ 30'23	8°30'23
minimum elong	1877 May 07 09:33	16° 8 59'01	0°40'53	min. Earth dist.	1879 Sep 24 21:54	0° ჲ 06'43	0.28046 AU
max. Earth dist.	1877 May 09 05:07	19° 8 13'15	1.73234 AU		1879 Sep 25 02:16	30°R Mp	
	1877 May 17 23:13	Π $^{\circ}0$		morning rise	1879 Sep 27 16:11	28° Mp 26'00	
asc. node	1877 May 25 02:29	8° Ⅱ 46'35		direct	1879 Oct 15 05:59	22° m 32'58	
	1877 Jun 11 09:11	0 \circ \odot		greatest brilliancy	1879 Oct 26 10:58	24° m 51'57	-4.9m
evening rise	1877 Jun 13 02:00	2°505'14			1879 Nov 05 05:16	0∘ ⊽	
	1877 Jul 05 20:30	$0^{\circ}\Omega$		asc. node	1879 Nov 09 21:21	3° ≏ 13'07	
	1877 Jul 30 09:25	0° m/		morning max el	1879 Dec 04 19:48	25° Ω 33'25	46°49'32
	1877 Aug 24 01:12	0∘ ⊽			1879 Dec 09 03:10	0° ™	
desc. node	1877 Sep 13 15:39	24° £ 53'16			1880 Jan 05 05:28	0° ⊼	
	1877 Sep 17 21:44	0°M₊			1880 Jan 30 16:48	5°0	
	1877 Oct 13 01:42	0° ∡			1880 Feb 24 13:30	0° ≈	
	1877 Nov 07 19:06	ව°0 5°0		desc. node	1880 Feb 29 10:43	5°≈56'07	
avanie 1	1877 Dec 04 20:49	0°≈ 6°2250!55	47010104		1880 Mar 20 04:19	0°) €	
evening max el	1877 Dec 11 11:00	6°≈50'55	47°19'04		1880 Apr 13 17:05	0° Υ	
asc. node	1878 Jan 04 19:07	28°≈57'41			1880 May 08 05:30	0°B 0°B	
greatest brilliancy	1878 Jan 06 04:29 1878 Jan 21 00:14	0° ∺ 8° ∺ 30′23	4.0m	morning set	1880 Jun 01 17:47 1880 Jun 07 12:50	0°Щ 7°Щ05'50	
greatest brilliancy	10/0 Jall 21 UU:14	о ДЗ0/23	-4.7111	morning set	1000 Juli 07 12:30	/ Д05/50	

	1000 I 21 14.17	240TT10155		4i4 hi	1002 D 07 12.57	1.49.72.510.1	
asc. node	1880 Jun 21 14:17 1880 Jun 26 05:10	24° Ⅱ 19'55 0° ©		transit begin transit end	1882 Dec 06 13:57 1882 Dec 06 20:15	14° ∡ °35'01 14° ∡ °25'26	
max. Earth dist.	1880 Jul 11 22:46	19° 5 20'03	1.73500 AU	min. Earth dist.	1882 Dec 06 17:55	14° × 23' 28' 59	0.26447 AU
man. Baran dige.	1000 Vai 11 22.10	1, 02005	1.75500110	asc. node	1882 Dec 07 09:12	14° √ 05'48	0.2011, 110
superior conj	1880 Jul 14 01:01	21° © 54'35	0°49'58	morning rise	1882 Dec 12 21:29	10° ₹ '55'02	
minimum elong	1880 Jul 13 16:42	21° 5 29'00	0°49'39	direct	1882 Dec 27 02:58	6° ∡ 752'47	
	1880 Jul 20 14:44	$0^{\circ}\Omega$		greatest brilliancy	1883 Jan 06 07:23	8° х 51′43	-4.9m
	1880 Aug 13 22:16	0° m			1883 Feb 05 09:49	0°ಕ	
evening rise	1880 Aug 18 21:18	6° Mp 07'42		morning max el	1883 Feb 15 15:05	9° る 53'22	46°50'21
	1880 Sep 07 04:36	0∘ 亚		1 1	1883 Mar 06 16:33	0° ≈	
daga mada	1880 Oct 01 10:55	0° ጤ 11° ጤ 58'51		desc. node	1883 Mar 28 22:47	25°≈01'49 0°¥	
desc. node	1880 Oct 11 03:40 1880 Oct 25 18:16	0° √ 1			1883 Apr 02 06:20 1883 Apr 27 21:54	0° ℋ 0° Ƴ	
	1880 Nov 19 03:40	0°중			1883 May 23 03:25	0°8	
	1880 Dec 13 17:40	0° ≈			1883 Jun 17 03:00	0°II	
	1881 Jan 07 18:51	0° ∀			1883 Jul 11 21:28	0°©	
asc. node	1881 Feb 01 06:50	28°) €08'06		asc. node	1883 Jul 20 02:05	9° © 58'52	
	1881 Feb 02 23:16	$0^{\circ}\Upsilon$			1883 Aug 05 10:26	0 $^{\circ}\Omega$	
evening max el	1881 Feb 20 23:50	19° Ƴ 04'14	46°34'01	morning set	1883 Aug 15 06:13	12° Ω 05′24	
	1881 Mar 04 09:54	9° 8			1883 Aug 29 17:59	0° ™	
greatest brilliancy	1881 Apr 01 09:18	19° 8 11'59	-4.8m	max. Earth dist.	1883 Sep 17 15:58	23° m 29'54	1.72318 AU
retrograde	1881 Apr 12 02:07	21° 8 20'01					
evening set	1881 Apr 28 03:33	16° 8 18'08	100 (150	superior conj	1883 Sep 21 00:08	27° m 39'31	1°23'11
inferior conj	1881 May 03 10:04	13° 8 04'46	4°36'59	minimum elong	1883 Sep 21 03:55	27° m 51'18	1°23'09
minimum elong min. Earth dist.	1881 May 03 18:48	12° 8 51'00	4°34'47 0.28646 AU		1883 Sep 22 21:14 1883 Oct 16 21:55	0° Մ	
morning rise	1881 May 03 11:01 1881 May 09 10:17	9° 8 26'28	0.28040 AU	evening rise	1883 Oct 16 21.33	15°M41'53	
desc. node	1881 May 23 20:10	4° 8 53'05		desc. node	1883 Nov 08 15:39	28°M26'21	
direct	1881 May 24 18:10	4° 8 52'06		desc. node	1883 Nov 09 21:35	0° ₹	
greatest brilliancy	1881 Jun 03 19:45	6° 8 41'52	-4.7m		1883 Dec 03 21:16	ි ව°0	
,	1881 Jul 07 14:17	0°Ⅲ			1883 Dec 27 22:00	0° ≈	
morning max el	1881 Jul 12 12:33	4° Ⅱ 35'59	45°43'35		1884 Jan 21 01:57	0°) €	
	1881 Aug 06 08:38	0 \circ \odot			1884 Feb 14 13:19	0 ° Υ	
	1881 Sep 02 04:01	$0^{\circ}\Omega$		asc. node	1884 Feb 29 18:49	18° Y ′20′09	
asc. node	1881 Sep 13 23:47	13° Ω 46'48			1884 Mar 10 15:08	0.8	
	1881 Sep 27 15:09	0° Т р			1884 Apr 05 20:19	0°II	45020150
	1881 Oct 22 07:20	0∘ ⊽		evening max el	1884 May 02 22:19	28° Ⅱ 19'16	45°32'58
	1881 Nov 15 12:22 1881 Dec 09 11:42	0° M 0° <i>₹</i>		greatest brilliancy	1884 May 04 16:15 1884 Jun 09 16:33	0°ତ 26°ତ08'42	1.7m
	1882 Jan 02 08:51	0°る		desc. node	1884 Jun 20 08:10	28°9516'26	-4. /111
desc. node	1882 Jan 03 13:06	1°る28'45		retrograde	1884 Jun 20 14:36	28° © 16'31	
morning set	1882 Jan 10 11:41	10°る12'05		evening set	1884 Jul 06 01:41	23° © 41'42	
C	1882 Jan 26 05:52	0° ≈		inferior conj	1884 Jul 12 02:11	20°504'14	-4°49'30
	1882 Feb 19 04:04	0°) €		minimum elong	1884 Jul 11 17:08	20°5518'24	4°47'18
				min. Earth dist.	1884 Jul 12 00:01	20° © 07'38	0.28998 AU
superior conj	1882 Feb 21 00:33	2° ₩ 19'11		morning rise	1884 Jul 17 08:34	16° © 52'13	
minimum elong	1882 Feb 20 19:26	2° 米 03′12		direct	1884 Aug 02 18:34	11° © 47'01	
max. Earth dist.	1882 Feb 24 17:29		1.71695 AU	greatest brilliancy	1884 Aug 13 04:55	13° 9 544'41	-4.7m
evening rise	1882 Mar 15 04:42	0° Υ 22° Υ 05'09		mamina may al	1884 Sep 07 13:27 1884 Sep 21 00:59	0° Ω 12° Ω 21'41	46°06'11
evening rise	1882 Apr 01 23:27 1882 Apr 08 08:59	0° 8		morning max el	1884 Oct 08 03:39	0° m)	40 00 11
asc. node	1882 Apr 26 16:43	22° 8 34'49		asc. node	1884 Oct 11 11:42	3° Mp 37'21	
ase. Hode	1882 May 02 17:52	0°Ⅱ		use. Houe	1884 Nov 03 17:32	ە ب روران 0° م	
	1882 May 27 08:04	0 . ಅ			1884 Nov 28 20:28	0° M	
	1882 Jun 21 04:46	$0^{\circ}\Omega$			1884 Dec 23 07:42	0° ∡ ¹	
	1882 Jul 16 10:37	0° m			1885 Jan 16 12:12	ರ∘ರ	
	1882 Aug 11 07:17	0० ट		desc. node	1885 Jan 31 00:58	18° る 05'20	
desc. node	1882 Aug 16 05:43	5° ≏ 36′24			1885 Feb 09 14:27	0° ≈	
	1882 Sep 07 07:39	0°M		_	1885 Mar 05 16:40	0°) {	
evening max el	1882 Sep 27 05:35	20°M31'20	46°36'51	morning set	1885 Mar 27 12:33	27°) €07'23	
	1882 Oct 07 07:38	0° ⊀ 7	4.0		1885 Mar 29 20:14	0°Υ •••	
greatest brilliancy	1882 Nov 06 14:10	20° ₹ 26'57	-4.9m		1885 Apr 23 01:59	0°8	
retrograde evening set	1882 Nov 16 04:37 1882 Nov 30 12:37	22° ₹ 10′29 18° ₹ 06′06		superior conj	1885 May 04 17:35	14° 8 22'21	-0°44'09
inferior conj	1882 Dec 06 16:41	18 x 00 00 14° x 30′52	-0°10'46	minimum elong	1885 May 05 02:03	14 8 22 21	
minimum elong	1882 Dec 06 17:06	14° 🗷 30'32		max. Earth dist.	1885 May 07 01:24	17° 8 14'21	1.73193 AU
transit middle	1882 Dec 06 17:06	14° ∡ ³30'14			1885 May 17 10:05	0°Ⅱ	
					-		

	100534 24 04 20	00 T 10 100			10050 . 10 00 50	200m 10144	
asc. node	1885 May 24 04:29	8° Ⅱ 19′22		direct	1887 Oct 12 20:58	20° m 13'44	
evening rise	1885 Jun 10 20:09	0°ഇ00'11		greatest brilliancy	1887 Oct 24 02:09	22° m 33'09	-4.8m
	1885 Jun 10 20:06	0			1887 Nov 06 06:49	0∘ ಹ	
	1885 Jul 05 07:33	$0 { m ^{\circ}} \Omega$		asc. node	1887 Nov 08 23:20	1° ≏ 58′20	
	1885 Jul 29 20:45	0° m		morning max el	1887 Dec 02 10:59	23° ₽ 13′06	46°48'45
	1885 Aug 23 13:00	0∘ ত			1887 Dec 08 23:46	0° M	
desc. node	1885 Sep 12 17:50	24° £ 22'34			1888 Jan 04 21:11	0° ∡ ¹	
	1885 Sep 17 10:16	0°M			1888 Jan 30 06:32	0°₹	
	1885 Oct 12 15:26	0° ∡ 7			1888 Feb 24 02:11	0° ≈	
	1885 Nov 07 10:57	0°ਤ		desc. node	1888 Feb 28 12:55	5°≈24'40	
	1885 Dec 04 17:40	0°≈		desc. node		0°)	
			47010155		1888 Mar 19 16:21	0 K 0°Υ	
evening max el	1885 Dec 09 00:33	4°≈25'24	47°18'55		1888 Apr 13 04:42		
asc. node	1886 Jan 03 21:04	27° ≈ 39'54			1888 May 07 16:48	0°8	
	1886 Jan 07 04:52	0° ∀			1888 Jun 01 04:51	Π °0	
greatest brilliancy	1886 Jan 18 15:29	6° ₩ 07'15	-4.9m	morning set	1888 Jun 05 06:31	4° Ⅱ 59'05	
retrograde	1886 Jan 28 23:12	8° ₩ 09'14		asc. node	1888 Jun 20 16:17	23° Ⅱ 52'25	
evening set	1886 Feb 15 08:32	2° 升 15′13			1888 Jun 25 16:07	0ංම	
min. Earth dist.	1886 Feb 18 00:20	0°) 36'44	0.27433 AU	max. Earth dist.	1888 Jul 09 21:28	17° 5 28'36	1.73519 AU
inferior conj	1886 Feb 18 19:25	0°) 06'51	8°35'24				
minimum elong	1886 Feb 18 14:23	0°) 14'43	8°35'02	superior conj	1888 Jul 11 19:13	19° 5 49'20	0°47'23
8	1886 Feb 18 23:47	30°R≈		minimum elong	1888 Jul 11 11:08	19° 5 24'26	0°47'03
morning rise	1886 Feb 21 20:29	28°≈13'49		minimum crong	1888 Jul 20 01:39	0° Ω	0 17 03
direct	1886 Mar 11 11:19	20 ≈1549 22°≈16'14				0° m)	
			4.0		1888 Aug 13 09:18		
greatest brilliancy	1886 Mar 20 10:49	23°≈46'47	-4.8m	evening rise	1888 Aug 16 15:10	4° Mp 00'30	
	1886 Apr 01 23:48	0° ∀			1888 Sep 06 15:50	0∘ ত	
desc. node	1886 Apr 25 10:29	19° ∺ 03'02			1888 Sep 30 22:28	0° M	
morning max el	1886 Apr 29 20:14	23° ¥ 15'43	46°08'17	desc. node	1888 Oct 10 05:44	11° M 29'08	
	1886 May 06 15:14	0 ° $\mathbf{\gamma}$			1888 Oct 25 06:11	0° ∡ ¹	
	1886 Jun 03 17:54	$6^{\circ}B$			1888 Nov 18 16:05	0°る	
	1886 Jun 30 04:27	$\Pi^{\circ}0$			1888 Dec 13 06:49	0° ≈	
	1886 Jul 25 19:05	0° ©			1889 Jan 07 09:20	0°) €	
asc. node	1886 Aug 16 13:56	26°504'49		asc. node	1889 Jan 31 08:58	27° ∺ 26'33	
	1886 Aug 19 19:44	$0^{\circ}\Omega$			1889 Feb 02 16:44	0° Υ	
	1886 Sep 13 09:11	0°m		evening max el	1889 Feb 18 15:29	16° Ƴ 48'28	46°36'28
	1886 Oct 07 14:13	0∘ <u>⊽</u>		Ü	1889 Mar 04 14:15	0°8	
morning set	1886 Oct 24 10:28	21° ჲ 02'36		greatest brilliancy	1889 Mar 30 01:16	16° 8 59'07	-4.8m
morning set	1886 Oct 31 13:57	0°M		retrograde	1889 Apr 09 19:00	19° 8 07'50	1.0111
	1886 Nov 24 11:08	0° ⊼ ¹		•		14° 8 02'01	
E d Ed			1.71122 ATT	evening set	1889 Apr 25 22:12		405 4100
max. Earth dist.	1886 Dec 02 12:43	10° ≯ 08'51	1.71132 AU	inferior conj	1889 May 01 02:05	10° 8 52'21	4°54'08
	10067	110 300155	0007101	minimum elong	1889 May 01 11:09	_	4°51'54
superior conj	1886 Dec 03 05:16	11° ∡ 100′55	0°07'01	min. Earth dist.	1889 May 01 02:34	10° 8 51'36	0.28628 AU
minimum elong	1886 Dec 03 07:06	11° ≯ 06'40	0°06'55	morning rise	1889 May 07 00:25	7° 8 17'02	
behind sun begin	1886 Dec 02 07:13	9° ≯ 751'32		direct	1889 May 22 10:08	2° 8 40'01	
behind sun end	1886 Dec 04 06:59	12° ∡ ¹21'49		desc. node	1889 May 22 22:12	2° 8 40'19	
desc. node	1886 Dec 06 03:21	14° ∡ ¹41'20		greatest brilliancy	1889 Jun 01 10:23	4° 8 29'10	-4.7m
	1886 Dec 18 07:29	ರ°ರ			1889 Jul 07 14:46	$\Pi^{\circ}0$	
	1887 Jan 11 04:09	0° ≈		morning max el	1889 Jul 10 05:33	2° Ⅲ 27'58	45°43'32
evening rise	1887 Jan 13 15:55	3°≈07'36			1889 Aug 06 00:59	0°ഇ	
-	1887 Feb 04 02:29	0°) €			1889 Sep 01 17:44	$0^{\circ}\Omega$	
	1887 Feb 28 04:30	$0^{\circ}\mathbf{\Upsilon}$		asc. node	1889 Sep 13 01:57	13° Ω 14'41	
	1887 Mar 24 12:51	0°8		1000	1889 Sep 27 03:41	0° m)	
asc. node	1887 Mar 29 06:50	5° 8 48'12			1889 Oct 21 19:15	0∘ ত مسم	
asc. Houc		0°Ⅱ				0° ™	
	1887 Apr 18 06:39				1889 Nov 14 23:59		
	1887 May 13 14:20	0° ©			1889 Dec 08 23:08	0° ∡ ¹	
	1887 Jun 08 20:45	$0^{\circ}\Omega$			1890 Jan 01 20:10	0°∃	
	1887 Jul 07 02:28	0° m		desc. node	1890 Jan 02 15:09	0° る 59'38	
evening max el	1887 Jul 13 18:03	6° Mg 29′44	45°32'21	morning set	1890 Jan 07 21:33	7° る 36'49	
desc. node	1887 Jul 18 19:59	11° m 14'54			1890 Jan 25 17:05	0° ≈	
	1887 Aug 12 02:00	0∘ ত					
greatest brilliancy	1887 Aug 22 03:51	4° ₽ 39'22	-4.8m	superior conj	1890 Feb 18 11:57	29° ≈ 49'52	-1°23'04
retrograde	1887 Aug 31 12:21	6° ≙ 14'51		minimum elong	1890 Feb 18 05:54	29° ≈ 30'54	1°22'59
evening set	1887 Sep 18 11:53	0° £ 15′20		-	1890 Feb 18 15:12	0° ∀	
-	1887 Sep 18 22:11	30°R Mp		max. Earth dist.	1890 Feb 22 05:19	4° ¥ 29'31	1.71646 AU
inferior conj	1887 Sep 21 15:59	28° m 19'49	-8°34'56		1890 Mar 14 15:46	0° Υ	-
minimum elong	1887 Sep 21 20:06	28° m 13'29		evening rise	1890 Mar 30 13:14	19° Ƴ 44'56	
min. Earth dist.	1887 Sep 22 11:39	27° m/49'33	0.28109 AU		1890 Apr 07 20:03	0°8	
morning rise	1887 Sep 25 04:03	26° m 11'45	5.20107 110	asc. node	1890 Apr 25 18:41	22° 8 06'37	
	11. 10p 20 0 1.00				от тр. 20 10.11		

	1890 May 02 05:03	Π $^{\circ}0$			1893 Jan 15 24:00	0° ප	
	1890 May 26 19:33	0ಂ ತಾ		desc. node	1893 Jan 30 03:06	17° る 35'54	
	1890 Jun 20 16:48	$0^{\circ}\Omega$			1893 Feb 09 01:56	0° ≈	
	1890 Jul 15 23:35	0° m y			1893 Mar 05 03:54	0° ∀	
	1890 Aug 10 21:58	0∘ ⊽		morning set	1893 Mar 25 02:16	24°) 46'41	
desc. node	1890 Aug 15 07:55	4° £ 59'51		<i>8</i>	1893 Mar 29 07:16	0° Υ	
dese. node	1890 Sep 07 02:00	0°M			1893 Apr 22 12:52	0°8	
avanina may al	1890 Sep 24 19:55	18°M10'40	46024121		1075 Apr 22 12.32	٥ ن	
evening max el	•	0° √	40 34 21		1002 M 02 00-52	12° 8 11'17	0047101
	1890 Oct 07 14:16		4.0	superior conj	1893 May 02 09:53		
greatest brilliancy	1890 Nov 04 03:02	17° ₹ 58'34	-4.9m	minimum elong	1893 May 02 18:44	12° 8 38'35	
retrograde	1890 Nov 13 16:39	19° ∡ °40'46		max. Earth dist.	1893 May 04 20:10		1.73148 AU
evening set	1890 Nov 28 01:49	15° ∡ ³35'34			1893 May 16 20:53	Π $^{\circ}0$	
inferior conj	1890 Dec 04 04:45	12° ∡ ′01'32	-0°35'26	asc. node	1893 May 23 06:32	7° Ⅱ 52'33	
minimum elong	1890 Dec 04 06:06	11° ∡ 59′28	0°35'00	evening rise	1893 Jun 08 14:35	27° Ⅱ 56′16	
min. Earth dist.	1890 Dec 04 07:27	11° ∡ 57′25	0.26461 AU		1893 Jun 10 06:54	0 \circ \odot	
asc. node	1890 Dec 06 11:14	10° ∡ ³39'13			1893 Jul 04 18:30	$0^{\circ}\Omega$	
morning rise	1890 Dec 10 10:18	8° ∡ ¹24'29			1893 Jul 29 08:01	0° m)	
direct	1890 Dec 24 15:45	4° ∡ ¹23'18			1893 Aug 23 00:49	0∘ ⊽	
greatest brilliancy	1891 Jan 03 21:03	6° ₹ 22'59	-4 9m	desc. node	1893 Sep 11 19:50	23° £ 51'09	
greatest oriniancy	1891 Feb 05 13:41	0°る	4.7111	dese. Hode	1893 Sep 16 22:55	0° ™	
mamina may al		0 0 7° る 27'07	46951122		•	0° ∡ 7	
morning max el	1891 Feb 13 04:13		40 31 22		1893 Oct 12 05:21		
	1891 Mar 06 10:25	0° ≈			1893 Nov 07 03:08	0° ප	
desc. node	1891 Mar 28 00:49	24°≈24'37			1893 Dec 04 15:17	0° ≈	
	1891 Apr 01 20:56	0° ∀		evening max el	1893 Dec 06 13:43	1° ≈ 58'55	47°18'54
	1891 Apr 27 10:53	$0^{\circ}\Upsilon$		asc. node	1894 Jan 02 23:12	26° ≈ 20'07	
	1891 May 22 15:27	0°8			1894 Jan 08 14:53	0° ℋ	
	1891 Jun 16 14:29	Π $^{\circ}0$		greatest brilliancy	1894 Jan 16 06:21	3°) 43′35	-4.9m
	1891 Jul 11 08:38	0 \circ \mathfrak{S}		retrograde	1894 Jan 26 12:53	5°) 45′04	
asc. node	1891 Jul 19 04:11	9° © 31'28		evening set	1894 Feb 12 19:13	29° ≈ 56′20	
	1891 Aug 04 21:27	$\Omega^{\circ}\Omega$		Č	1894 Feb 12 16:46	30° R ≈	
morning set	1891 Aug 12 23:39	9° £ 57′26		min. Earth dist.	1894 Feb 15 13:58	28° ≈ 13'43	0.27376 AU
morning set	1891 Aug 29 04:56	0° m)		inferior conj	1894 Feb 16 09:12	27°≈43'39	8°29'51
max. Earth dist.	1891 Sep 15 04:47		1.72370 AU	minimum elong	1894 Feb 16 03:23	27°≈52'43	8°29'20
max. Earth dist.	1691 Sep 13 04.47	21 11/0022	1.72370 AU	•			8 29 20
	1001.0 10.16.04	2.50 % 2.512.4	1000115	morning rise	1894 Feb 19 11:47	25°≈48'28	
superior conj	1891 Sep 18 16:24	25° Tp 26'34		direct	1894 Mar 08 23:55	19°≈53'40	
minimum elong	1891 Sep 18 19:28	25°m/36'05	1°23'46	greatest brilliancy	1894 Mar 18 00:34	21° ≈ 25′06	-4.8m
	1891 Sep 22 08:13	0∘ ⊽			1894 Apr 03 01:10	0° ∀	
	1891 Oct 16 09:00	0°M		desc. node	1894 Apr 24 12:27	18°) €09'08	
evening rise	1891 Oct 27 00:01	13°M16'54		morning max el	1894 Apr 27 09:52	20°) 56′05	46°09'55
desc. node	1891 Nov 07 17:35	27° M 57'13			1894 May 06 11:33	0 ° Υ	
	1891 Nov 09 08:51	0° ∡ ¹			1894 Jun 03 09:05	$8^{\circ 0}$	
	1891 Dec 03 08:44	გ∘ე			1894 Jun 29 17:31	$\Pi^{\circ}0$	
	1891 Dec 27 09:42	0° ≈			1894 Jul 25 07:03	0°ഇ	
	1892 Jan 20 13:58	0°) €		asc. node	1894 Aug 15 16:05	25°936'52	
	1892 Feb 14 01:51	0°Υ		use. noue	1894 Aug 19 07:05	0° Ω	
asc. node	1892 Feb 28 20:56	17° Ƴ 47'27			1894 Sep 12 20:14	0° m)	
asc. node		0° 8			-	0∘ ত راا	
	1892 Mar 10 04:42				1894 Oct 07 01:10		
	1892 Apr 05 12:14	0°II	4500 445	morning set	1894 Oct 22 00:36	18° ≏ 42'16	
evening max el	1892 Apr 30 13:43	26° Ⅱ 07'00	45°34'15		1894 Oct 31 00:55	0° M ₊	
	1892 May 04 15:31	0 \circ \odot			1894 Nov 23 22:08	0° ∡ ¹	
greatest brilliancy	1892 Jun 07 09:01	24° © 00'29	-4.7m	max. Earth dist.	1894 Nov 29 21:01	7° ∡ ¹29'21	1.71154 AU
retrograde	1892 Jun 18 06:22	26° © 08'12					
desc. node	1892 Jun 19 10:10	26° 5 06'39		superior conj	1894 Nov 30 15:55	8° ∡ ¹28'47	0°10'55
evening set	1892 Jul 03 16:25	21° © 35'43		minimum elong	1894 Nov 30 18:45	8° ҂ 37'42	0°10'47
inferior conj	1892 Jul 09 18:42	17° © 55'47	-4°33'00	behind sun begin	1894 Nov 29 22:58	7° ∡ ³35′29	
minimum elong	1892 Jul 09 09:58	18° © 09'28	4°30'49	behind sun end	1894 Dec 01 14:32	9° ∡ ³39'55	
min. Earth dist.	1892 Jul 09 16:42	17° © 58'56	0.29001 AU	desc. node	1894 Dec 05 05:28	14° ∡ 13'19	
morning rise	1892 Jul 15 03:27	14°5540'03			1894 Dec 17 18:31	5°0	
direct	1892 Jul 31 10:44	9°938'30			1895 Jan 10 15:13	0°≈	
			-4.7m	evening rice		0 ≈ 0°≈33'26	
greatest brilliancy	1892 Aug 10 21:24	11°935'54	-4./111	evening rise	1895 Jan 11 01:52		
	1892 Sep 07 18:11	0° N	4600 1112		1895 Feb 03 13:37	0°) €	
morning max el	1892 Sep 18 15:21	10° Ω 05'43	46~04'42		1895 Feb 27 15:46	0° Υ	
	1892 Oct 07 20:57	0° m			1895 Mar 24 00:22	0° 8	
asc. node	1892 Oct 10 13:38	2° Mp 56'39		asc. node	1895 Mar 28 08:49	5° 8 18'54	
	1892 Nov 03 07:45	0∘ ⊽			1895 Apr 17 18:40	Π °0	
	1892 Nov 28 09:22	0° M			1895 May 13 03:19	0 \circ \odot	
	1892 Dec 22 19:54	0° ∡			1895 Jun 08 11:47	$0^{\circ}\Omega$	

Conting mark 1995 11 1990 1996 1995 1972 1998 1		1895 Jul 06 23:03	0° m p		desc. node	1898 Jan 01 17:18	0° る 32'02	
1988 1988 1989	arranina marral		•	45021110				
graces that hall make the state of	•		•	43 31 18	morning set			
granted fillinger 898 Aug 19 1551 2°P2 299 Aug 10 1501 470 Week 10 1500 Aug	desc. node		-			1898 Jan 25 03:59	0°≈	
Property 1985 Aug 20 8.05 97.07 97.0		=		4.7		1000 F 1 15 00 50	270 - 10142	1001157
1895 Spr 10 24 25 26 27 27 27 27 27 27 27		-		-4./m				
Seminary 1895 Sep 6 0.009 278 9329 1710 0 171	retrograde	_			minimum elong			1°21′50
inference or minimum ellipse (1) 1895 Say 19 0.039 20° P0.048 20° P0		*			T 4 1			1 =1 <00 + 11
minimace bolds 1895 Say 19 0.058 25°8 Say 16 0.058 25°8 Say 16 0.058 22°8 Say 16 0.028° 23°8 Say 17 0.058 20°8 Say 18 0.058	•	*	-	002011.4	max. Earth dist.			1.71600 AU
am. Band dard 1895 Say 2 0 1012 25 #83 50 0.21 12 25 #83 50 0.21 10 1246 17 #95 52 ace, node 1898 May 2 10 528 0°I	·	•	•					
moming mine 1895 Sep 2 1 633 23*195978 32*19	•	1			evening rise			
direct 1895 Oct 1 10 12-66 17*8p5652 CH 1888 May 0 15:58 0*TH CH 1888 May 0 6-645 0*TH CH 1888 May 0 6-645 0*TH CH 1888 May 0 6-645 0*TH CH 1888 May 0 10 12-12 0*TH CH			•	0.28174 AU		*		
greatest brilliancy 1878 1878 1878 1879 1870 1879 1879 1870 1879	=	•	-		asc. node	*		
1895 Now 07 00.57		1895 Oct 10 12:46	17° m 56'52			•		
Section Sec	greatest brilliancy	1895 Oct 21 16:58		-4.8m		•		
momining maxed 1898 Now 3 to 0.24.5 26°25.71 46°4731 classed node 1898 Aug 10 12-24 0°A 4°A2740 1896 Jan 04 12.31 0°A cerning maxed 1898 Sep 06 20.18 0°TL 1896 Jan 29 20.01 0°TE recenting maxed 1898 Sep 06 20.18 0°TL 1896 feb 27 14.59 4°845325 greatest brilliancy 1898 Nov 01 16.23 15°7.27317 4°971 <td></td> <td>1895 Nov 07 00:57</td> <td></td> <td></td> <td></td> <td>1898 Jun 20 04:31</td> <td></td> <td></td>		1895 Nov 07 00:57				1898 Jun 20 04:31		
1895 1907 1918	asc. node	1895 Nov 08 01:25	0° ჲ 47'09			1898 Jul 15 12:15	-	
1896 1996 1991 1992 1998 1998 1998 1992 1993	morning max el	1895 Nov 30 02:45		46°47'31		•		
1896 1896		1895 Dec 08 19:27			desc. node	1898 Aug 14 09:54		
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Seed		1896 Jan 29 20:01	0°る		evening max el	1898 Sep 22 09:38	15° M 50′06	46°31'55
Report 19 40 90 90 74 19 19 19 19 10 10 10 10		1896 Feb 23 14:38	0° ≈			1898 Oct 07 22:31	0° ∡ ¹	
See Note 12 16.01 0.0** 1898 Aay 12 16.01 0.0** 1898 May 31 15.36 0.7* 1899 May 31 15.36 0.7	desc. node	1896 Feb 27 14:59	4° ≈ 53'25		greatest brilliancy	1898 Nov 01 16:37	15° ∡ ³33'17	-4.9m
1896 May 07 0.347 0°B 1896 May 1 1536 0°B 1896 May 3 1536 0°B 1896 May 19 1826 2°B 1896 May 19 1826 2°B 1896 May 19 1826 1896 May 19 1824 1896 May 19		1896 Mar 19 04:09	0° ∀		retrograde	1898 Nov 11 04:23	17° ∡ 13'42	
moming set 1896 May 31 15.36 0°II 2°II5349 min. Earth dist. 1898 Dec 01 19.27 3°9°,32136 0°9003 asc. node 1898 Dec 01 1213 3°9°,32813 0.26480 AU asc. node 1898 Dec 01 1213 7°721701 7°271701 7°72170		1896 Apr 12 16:01	0 ° Υ		evening set	1898 Nov 25 15:30	13° ∡ 07'19	
moming set 1896 Jun 03 0021 2°IIS349 sac. node 1898 Dec 01 21:33 9°P32813 0.26480 AU asc. node 1896 Jun 19 1826 20°243 0°C52 sac. node 1898 Dec 05 13:19 7°A 1701 1°F36179		1896 May 07 03:47	0° ႘		inferior conj	1898 Dec 01 17:09	9° ∡ ³34'55	-0°59'48
asc. node		1896 May 31 15:36	$\Pi^{\circ}0$		minimum elong	1898 Dec 01 19:27	9° ∡ 131'26	0°59'03
Max. Earth dist. 1896 Jul 25 02-43 0°-25 15°-2591 1.7353 AU direct 1898 Dec 2 04-26 1-76 761 1-78 76	morning set	1896 Jun 03 00:21	2° Ⅲ 53'49		min. Earth dist.	1898 Dec 01 21:33	9° ∡ ¹28'13	0.26480 AU
Max. Earth dist. 1896 Jul 07 20:29 15°\$3911 1.73533 AU direct 1898 Dec 2 04:26 1°\$75015 4.9m Superior conj 1896 Jul 09 13:44 17°\$4601 0°44'46 1899 Feb 10 16:29 4°\$57915 4.9m Minimum elong 1896 Jul 09 05:54 17°\$21'55 0°44'25 morning max el 1899 Feb 10 16:29 4°\$59'49 46°\$20'40 1896 Jul 09 05:54 17°\$21'55 0°44'25 morning max el 1899 Mar 06 03:31 0°\$\$ 1896 Jul 19 12 19:58 0°\$\$ 0°40 desc. node 1899 Mar 27 02:47 23°\$48'49 0°\$\$ 1896 Sep 10 09:31 1°\$185'55 desc. node 1899 Mar 27 02:47 23°\$48'49 0°\$\$ 1896 Sep 10 09:31 1°\$180'555 0°\$\$ 1899 Mar 27 02:47 23°\$48'49 0°\$\$ 1899 Mar 27 02:47 0°\$\$ 0°\$\$ 0°\$\$ 1899 Mar 27 02:47 0°\$\$	asc. node	1896 Jun 19 18:26	23° Ⅲ 26′26		asc. node	1898 Dec 05 13:19	7° ∡ 17'01	
max. Earth dist. l896 Jul 07 20:29 15°©3911 1.73533 AU direct 1898 Dec 2 04:26 1°875619 -49m superior conj 1896 Jul 09 13:44 17°©4601 0°446 respective for lassy feel 05 15:24 0°3 -49m minimum clore 1896 Jul 19 12:14 17°©4601 0°446 morning max el 1899 Feb 10 16:29 4°55949 4°65204 evening rise 1896 Aug 12 19:58 0°ħ desc. node 1899 Mar 27 02:47 22°≈4819		1896 Jun 25 02:43			morning rise	1898 Dec 07 23:11	5° ∡ 756'47	
Superior conj 1896 Jul 90 13.44 17°\$\times 46'01 0°44'45 morning max 1899 Feb 10 16.29 4°\$\times 57 46°\$\times 57 4	max. Earth dist.	1896 Jul 07 20:29	15° © 39'11	1.73533 AU	direct	1898 Dec 22 04:26	1° ∡ 756'19	
Superior conj 1896 Jul 90 13.44 17°\$\times 46'01 0°44'45 morning max 1899 Feb 10 16.29 4°\$\times 57 46°\$\times 57 4					greatest brilliancy	1899 Jan 01 11:29	3° ∡ 757'15	-4.9m
minimum elong	superior conj	1896 Jul 09 13:44	17° © 46'01	0°44'46			0°ಕ	
1896 Jul 19 12.14 0°Ω desc. node 1899 Mar 27 02.47 23°≈48′ 34°					morning max el			46°52'04
evening rise					. <i>&</i>			
Reyning rise Reynology					desc. node			
1896 Sep 06 02:42 0°Φ 1899 Apr 26 23:33 0°° 1898 Apr 26 23:34 0°° 1899 Apr 26 23:34 0°° 1899 Apr 26 23:33 0°° 1898 Apr 26 23:34 0°° 1899 Apr 27 17:34 1899 Apr 28 17:34	evening rise	•	•		dese. Hode			
desc. node 1896 Sep 30 09:37 0°	e vennig nise	Č	-			*		
desc. node 1896 Oct 09 07:45 11° 1100 028 1899 Jun 16 01:42 0° 11 1896 Oct 24 17:45 0° 2° 2 1896 Oct 12 19:49 0° 2° 2 1896 Oct 12 19:49 0° 2° 2 1899 Jun 1 10 19:30 0° 2° 2 1896 Oct 12 19:49 0° 2° 2 1899 Jun 18 06:16 0° 2° 04:56 1899 Jun 18 07:56 18						*		
1896 Nov 18 04:13 0°\$ 38c. node 1899 Jul 10 19:30 0°\$ 0°\$ 1899 Nov 18 04:13 0°\$ 1899 Nov 18 04:13 0°\$ 1899 Nov 18 04:13 0°\$ 1899 Nov 18 06:16 0°\$ 0°\$ 1899 Nov 18 06:16 0°\$ 0°\$ 1899 Nov 18 07:00 0°\$ 1899 Nov 18 10 17:00 0°\$ 0°\$ 0°\$ 1899 Nov 18 10 17:00 0°\$ 0°\$ 0°\$ 1899 Nov 18 10 17:00 1890 Nov 18 1899 Nov 18 19:00 19:00 Nov 18 19:00 Nov 18 19:00 19:00 Nov 18 1	desc node	•						
1896 Nov 18 04:13 0°\$ asc. node 1899 Jul 18 06:16 9°\$04'56 1896 Dec 12 19:49 0°\$ 1899 Aug 04 08:07 0°\$ 1899 Aug 04 08:07 0°\$ 0°\$ 1899 Aug 04 08:07 0°\$ 0°\$ 0°\$ 1899 Aug 04 08:07 0°\$ 0°	dese. Hode							
1896 1974					asc node			
1897 Jan 06 23:47 0° \(\)					use. Houe			
1897 In 3 0 11:04 26° \(\) 44′51 1897 In 3 0 11:04 26° \(\) 44′51 1897 In 3 0 11:04 172424 AU 172424 AU 1897 Feb 1c 07:39 14° \(\) 73′41 46°38′53 1897 Mar 04 20:26 0° \(\) 8					morning set	Č		
evening max el 1897 Feb 02 10:27 0°°V max. Earth dist. 1899 Sep 12 19:30 18° My49'44 1.72424 AU evening max el 1897 Feb 16 07:39 14°°Y34'14 46°38'53 greatest brilliancy 1897 Mar 04 20:26 0°8 superior conj 1899 Sep 16 08:52 23° Mp15'16 1°24'15 greatest brilliancy 1897 Mar 27 17:31 14°8'46'54 4.8m minimum elong 1899 Sep 16 11:11 23° Mp22'29 1°24'14 evening set 1897 Apr 07 11:41 16°85'539 11°06 evening rise 1899 Sep 21 18:52 0°£ 10°ML inferior conj 1897 Apr 28 17:59 8°8'40'14 5°11'00 evening rise 1899 Nov 06 19:42 27° Mz2'24 1 10°ML minimum elong 1897 Apr 28 17:54 8°8'40'22 0.28602 AU 1899 Nov 06 19:42 27° Mz2'42 1 10° Mg miniming rise 1897 May 04 14:11 5°808'01 1899 Dec 02 19:51 0°₹ 1899 De	asc node				morning set	•		
evening max el 1897 Feb 16 07:39	asc. node				may Earth dist	_		1 72424 ATT
1897 Mar 04 20:26 0°B superior conj 1899 Sep 16 08:52 23° № 15'16 1°24'15 1897 Mar 27 17:31 14° 846'54 -4.8m minimum elong 1899 Sep 16 11:11 23° № 22'29 1°24'14 1897 Mar 27 17:31 14° 846'54 -4.8m minimum elong 1899 Sep 16 11:11 23° № 22'29 1°24'14 1897 Mar 28 17:59 8° 840'14 5°11'00 evening rise 1899 Oct 15 19:47 0°M. 1897 Apr 28 17:59 8° 840'14 5°11'00 evening rise 1899 Nov 06 19:42 27° № 24'12 1897 Mar 20 20:19 8° 825'32 5°08'45 desc. node 1899 Nov 06 19:42 27° № 29'42 1897 Mar 20 20:19 8° 825'32 0.28602 AU 1899 Nov 06 19:42 27° № 29'42 1897 Mar 20 20:29 0° 828'31	avanina may al			16020152	max. Lartii dist.	1077 Sep 12 17.30	דיד לידיעווי 10	1./2424 AO
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minimum elong 1897 Apr 29 03:19 8°825'32 5°08'45 desc. node 1899 Nov 06 19:42 27° 11.29'42 4 min. Earth dist. 1897 Apr 28 17:54 8°840'22 0.28602 AU 1899 Nov 08 19:47 0° ₹ 0° ₹ morning rise 1897 May 04 14:11 5°808'01 1899 Dec 26 21:03 0° ₹ 0° ₹ direct 1897 May 20 00:09 0°828'31 1899 Dec 26 21:03 0° ₹ 0° ₹ desc. node 1897 May 30 00:28 2°816'25 -4.7m 1900 Jan 20 0:39 0° ₹ greatest brilliancy 1897 Jul 07 13:43 0° II 3 0° II 19'27 45°43'36 1900 Mar 10 18:08 0° ¥ morning max el 1897 Aug 05 16:38 0° Φ evening max el 1900 Apr 06 04:15 0° II asc. node 1897 Sep 12 03:51 12° A43'14 greatest brilliancy 1900 May 05 15:46 0° Φ	•	-		5°11'00	avaning risa			
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desc. node 1897 May 22 00:18 0°832'49 1900 Jan 20 01:39 0° H 1897 May 30 00:28 2°816'25 -4.7m 1900 Feb 13 14:08 0° Y 1897 Jul 07 13:43 0° I asc. node 1900 Feb 27 22:52 17° Y 14'53 1897 Jul 07 21:53 0° I 19'27 45°43'36 1897 Aug 05 16:38 0° S 1897 Sep 01 06:54 0° Ω evening max el 1897 Sep 12 03:51 12°Ω43'14 1897 Sep 26 15:43 0° I 12°Ω43'14 1897 Sep 26 15:43 0° I 189	=	-						
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morning max el 1897 Jul 07 21:53 0° Il 19'27 45°43'36 1900 Mar 10 18:08 0° ∀ 1897 Aug 05 16:38 0° © 1900 Apr 06 04:15 0° Il 1807 Sep 01 06:54 0° Ω evening max el 1900 Apr 29 04:22 23° Il 3'11 45°35'35 asc. node 1897 Sep 12 03:51 12° Ω43'14 12° Ω43'14 11:08 0° № greatest brilliancy 1900 Jun 06 01:12 21° ©51'54 -4.7m 1897 Oct 21 06:43 0° Ω retrograde 1900 Jun 16 22:20 24° ©00'03 1897 Nov 14 11:08 0° № desc. node 1900 Jun 19 12:19 23° ©52'13 1897 Dec 08 10:09 0° ₹ evening set 1900 Jul 02 07:07 19° ©29'23 1900 Jul 02 07:07 19° ©29'23	greatest offillaticy	•			ana mada			
1897 Aug 05 16:38 0°S	morning me1			15012126	asc. node			
1897 Sep 01 06:54 0° \$\Omega\$ evening max el 1900 Apr 29 04:22 23° \$\mathbb{\pi}\$ 53'11 45° 35'35 asc. node 1897 Sep 12 03:51 12° \$\Omega\$ 43'14 1897 Sep 26 15:43 0° \$\mathbb{\pi}\$ greatest brilliancy 1900 Jun 06 01:12 21° \$\sigma\$ 51'54 -4.7m 1897 Oct 21 06:43 0° \$\mathbb{\pi}\$ retrograde 1900 Jun 16 22:20 24° \$\sigma\$ 00'03 1897 Nov 14 11:08 0° \$\mathbb{\pi}\$ desc. node 1900 Jun 19 12:19 23° \$\sigma\$ 52'13 1897 Dec 08 10:09 0° \$\mathbb{\pi}\$ evening set 1900 Jul 02 07:07 19° \$\sigma\$ 29'23	morning max el			45 45 50				
asc. node 1897 Sep 12 03:51 12° € 43'14 1897 Sep 26 15:43 0° № greatest brilliancy 1900 Jun 06 01:12 21° € 51'54 -4.7m 1897 Oct 21 06:43 0° ♣ retrograde 1900 Jun 16 22:20 24° € 500'03 1897 Nov 14 11:08 0° № desc. node 1900 Jun 19 12:19 23° € 52'13 1897 Dec 08 10:09 0° ₹ evening set 1900 Jul 02 07:07 19° € 29'23		•			avanir 1	-		15025125
1897 Sep 26 15:43 0° m greatest brilliancy 1900 Jun 06 01:12 21°551'54 -4.7m 1897 Oct 21 06:43 0° □ retrograde 1900 Jun 16 22:20 24°500'03 1897 Nov 14 11:08 0° m desc. node 1900 Jun 19 12:19 23°552'13 1897 Dec 08 10:09 0° ♂ evening set 1900 Jul 02 07:07 19°529'23	1	•			evening max el	-		45 55 55
1897 Oct 21 06:43 0° ♣ retrograde 1900 Jun 16 22:20 24° © 00'03 1897 Nov 14 11:08 0° ♣ desc. node 1900 Jun 19 12:19 23° © 52'13 1897 Dec 08 10:09 0° ₹ evening set 1900 Jul 02 07:07 19° © 29'23	asc. node	•			amonto et le elli	-		4.7
1897 Nov 14 11:08 0° ML desc. node 1900 Jun 19 12:19 23° 52'13 1897 Dec 08 10:09 0° ✓ evening set 1900 Jul 02 07:07 19° 529'23					-			-4./M
1897 Dec 08 10:09 0° 尽 evening set 1900 Jul 02 07:07 19° 5 29'23					•			
ř								
1898 Jan U1 U7:07 U interior conj 1900 Jul 08 11:05 15°94/'26 -4°15'59					•			4015150
		1898 Jan 01 07:07	0,0		interior conj	1900 Jul 08 11:05	15~947/26	-4°15'59

minimum elong	1900 Jul 08 02:43	16° © 00'31	4°13'51	behind sun end	1902 Nov 29 18:04	6° х 45′30	
min. Earth dist.	1900 Jul 08 09:18	15° © 50'13	0.29001 AU	desc. node	1902 Dec 05 07:33	13° ∡ ⁴45'16	
morning rise	1900 Jul 13 22:10	12° © 28'15			1902 Dec 18 05:32	0° ろ	
direct	1900 Jul 30 02:30	7° © 30'00		evening rise	1903 Jan 09 11:55	27° る 59'31	
greatest brilliancy	1900 Aug 09 14:07	9° © 27'50	-4.7m		1903 Jan 11 02:18	0° ≈	
	1900 Sep 08 20:55	0° Ω	4.0002122		1903 Feb 04 00:46	0°) €	
morning max el	1900 Sep 17 05:56	7° Ω 51'08	46°03'23		1903 Feb 28 03:03	0° Υ	
	1900 Oct 08 13:36	0° m/y			1903 Mar 24 11:53	0° 8	
asc. node	1900 Oct 10 15:46	2° Mp 17'42		asc. node	1903 Mar 28 10:55	4° 8 49'58	
	1900 Nov 03 21:32	0° № 0° 亞			1903 Apr 18 06:41	0°© 0°∏	
	1900 Nov 28 21:55 1900 Dec 23 07:48	0° ∕ 7			1903 May 13 16:23 1903 Jun 09 03:07	0°€	
	1900 Dec 23 07.48 1901 Jan 16 11:29	0°る			1903 Jul 09 03:07 1903 Jul 07 20:36	0°Mp	
desc. node	1901 Jan 30 05:07	0 3 17° る 07'02		avanina may al	1903 Jul 07 20:30	رابات 2°10/04'51	45020106
desc. node	1901 Jan 30 03:07 1901 Feb 09 13:06	0°≈		evening max el desc. node	1903 Jul 18 00:09	9° Mg 26'44	45 30 00
	1901 Pco 09 13:00 1901 Mar 05 14:51	0° ∺		desc. Hode	1903 Aug 17 21:51	0° ∵	
morning set	1901 Mar 03 14:51 1901 Mar 23 15:57	22° ₩ 26'34		greatest brilliancy	1903 Aug 17 21:31 1903 Aug 18 04:01	0° ₽ 05'09	-4.7m
morning set	1901 Mar 29 18:03	0° Υ		retrograde	1903 Aug 27 17:36	1° ⊆ 44'05	-4.7111
	1901 Apr 22 23:34	%8 0°8		retrograde	1903 Aug 27 17:30 1903 Sep 06 02:29	1 <u>—</u> + + 03	
	1901 Apr 22 25.54	0		evening set	1903 Sep 10 02:29	25° Mp 41'28	
superior conj	1901 May 01 02:02	10° 8 00'13	-0°49'48	inferior conj	1903 Sep 17 10:00 1903 Sep 17 21:12	23° Mp 46'59	-8°40'43
minimum elong	1901 May 01 02:02	10° 8 28'32		minimum elong	1903 Sep 17 23:42	23° m 43'07	
max. Earth dist.	1901 May 03 13:18	13° 8 02'55		min. Earth dist.	1903 Sep 18 14:30	23° m 20'19	
	1901 May 17 07:34	0°II		morning rise	1903 Sep 21 05:14	21° mp 44'57	
asc. node	1901 May 23 08:41	7° Ⅱ 26'20		direct	1903 Oct 09 04:36	15° m 39'28	
evening rise	1901 Jun 07 08:41	25° Ⅱ 51'44		greatest brilliancy	1903 Oct 20 07:04	17° m) 56'55	-4.8m
Ü	1901 Jun 10 17:37	0°©		asc. node	1903 Nov 08 03:33	29° m 37'33	
	1901 Jul 05 05:22	$0^{\circ}\Omega$			1903 Nov 08 14:43	0∘ ⊽	
	1901 Jul 29 19:13	0° m		morning max el	1903 Nov 28 17:59	18° ≏ 36′00	46°46'16
	1901 Aug 23 12:33	0∘ 亚			1903 Dec 09 14:42	0° M	
desc. node	1901 Sep 11 21:49	23° ≙ 20'03			1904 Jan 05 03:43	0° ∡ ¹	
	1901 Sep 17 11:29	0°M₊			1904 Jan 30 09:28	ರ°0	
	1901 Oct 12 19:15	0° ∡			1904 Feb 24 03:08	0° ≈	
	1901 Nov 07 19:25	0°₹		desc. node	1904 Feb 27 16:53	4° ≈ 21'31	
evening max el	1901 Dec 05 03:22	29° る 34'09	47°18'52		1904 Mar 19 16:01	0°) €	
	1901 Dec 05 13:32	0° ≈			1904 Apr 13 03:27	$0^{\circ}\Upsilon$	
asc. node	1902 Jan 03 01:18	24° ≈ 58'12			1904 May 07 14:52	9° 8	
	1902 Jan 11 17:47	0° ∀			1904 Jun 01 02:28	Π °0	
greatest brilliancy	1902 Jan 14 20:37	1° ∺ 19'35	-4.9m	morning set	1904 Jun 01 18:18	0° ∏ 48'32	
retrograde	1902 Jan 25 03:02	3° ∺ 21′28		asc. node	1904 Jun 19 20:27	22° ∏ 59'33	
	1902 Feb 06 22:55	30° R ≈			1904 Jun 25 13:29	0°©	
evening set	1902 Feb 11 05:35	27° ≈ 38'04		max. Earth dist.	1904 Jul 06 19:07	13° © 48'08	1.73549 AU
min. Earth dist.	1902 Feb 14 03:15	25°≈51'27	0.27319 AU				
inferior conj	1902 Feb 14 22:57	25°≈20'45		superior conj	1904 Jul 08 08:13	15°5042'09	
minimum elong	1902 Feb 14 16:24	25°≈30'57	8°22'32	minimum elong	1904 Jul 08 00:42	15° © 19'03	0°41'45
morning rise	1902 Feb 18 03:27	23°≈23'01 17°≈31'27		avanina riaa	1904 Jul 19 23:01 1904 Aug 13 03:44	0° Ω 29° Ω 50'17	
direct greatest brilliancy	1902 Mar 07 12:46 1902 Mar 16 13:50	17 ≈3127 19°≈03'28	-4.8m	evening rise	1904 Aug 13 06:53	0° Mp	
greatest billiancy	1902 Mai 16 13:30 1902 Apr 04 19:31	19 ≈ 03 28	- 7 .0III		1904 Aug 13 06.33 1904 Sep 06 13:50	0∘ ⊽ ० ार्ष	
desc. node	1902 Apr 04 17:31 1902 Apr 24 14:37	17° 米 17'19			1904 Sep 30 21:04	0°M	
morning max el	1902 Apr 26 00:16	18° H 38'46	46°11'27	desc. node	1904 Oct 09 09:50	10°MJ31'10	
morning max or	1902 May 07 07:05	0°Υ	10 11 27	dese. Hode	1904 Oct 25 05:37	0° ∡ 7	
	1902 Jun 03 23:59	0°8			1904 Nov 18 16:40	0° ਰ	
	1902 Jun 30 06:28	0°II			1904 Dec 13 09:08	0° ≈	
	1902 Jul 25 18:59	0°9			1905 Jan 07 14:38	0°) €	
asc. node	1902 Aug 15 18:02	25°908'12		asc. node	1905 Jan 30 13:00	26°) €01'35	
	1902 Aug 19 18:28	$0^{\circ}\Omega$			1905 Feb 03 04:49	0°Υ	
	1902 Sep 13 07:18	0° m)		evening max el	1905 Feb 14 23:30	12° Ƴ 18'17	46°41'12
	1902 Oct 07 12:06	0∘ <u>⊽</u>		-	1905 Mar 06 05:26	0°8	
morning set	1902 Oct 20 14:43	16° ≙ 22'06		greatest brilliancy	1905 Mar 26 10:19	12° 8 34'24	-4.8m
	1902 Oct 31 11:51	0° M ₊		retrograde	1905 Apr 06 03:54	14° 8 42'24	
	1902 Nov 24 09:06	0° ∡ ¹		evening set	1905 Apr 22 11:32	9° 8 29'25	
max. Earth dist.	1902 Nov 28 07:02	4° ₹ 755′20	1.71177 AU	inferior conj	1905 Apr 27 09:50	6° 8 27'15	
				minimum elong	1905 Apr 27 19:24	6° 8 12'11	5°25'10
superior conj	1902 Nov 29 02:36	5° ∡ 756'52		min. Earth dist.	1905 Apr 27 09:19	6° 8 28'04	0.28573 AU
minimum elong	1902 Nov 29 06:24	6° ₰ 08'49	0°14'37	morning rise	1905 May 03 03:40	2° 8 58'13	
behind sun begin	1902 Nov 28 18:44	5° ∡ ³32′08			1905 May 09 10:37	30° ₹Ƴ	

direct	1905 May 18 18:04	28° Y 16'16		desc. node	1907 Nov 06 21:47	27°M00'48	
desc. node	1905 May 18 18:04 1905 May 22 02:21	28° Υ 29'11		desc. node	1907 Nov 09 21:47 1907 Nov 09 07:08	27 11000 48 0° 🗷	
desc. Hode		0° 8			1907 Nov 09 07:08 1907 Dec 03 07:26	0°ਤ	
4 41 711	1905 May 28 11:18		4.7				
greatest brilliancy	1905 May 28 14:30	0° 8 02'44	-4.7m		1907 Dec 27 08:53	0° ≈	
morning max el	1905 Jul 06 13:14	28° 8 07'48	45°43'42		1908 Jan 20 13:49	0°) €	
	1905 Jul 08 12:00	$\Pi^{\circ}0$			1908 Feb 14 02:55	0° Υ	
	1905 Aug 06 08:17	0		asc. node	1908 Feb 28 01:00	16° Ƴ 41'30	
	1905 Sep 01 20:16	$0^{\circ}\Omega$			1908 Mar 10 08:06	$8^{\circ 0}$	
asc. node	1905 Sep 12 05:59	12° Ω 11'41			1908 Apr 05 20:57	Π $^{\circ}0$	
	1905 Sep 27 04:02	0° m		evening max el	1908 Apr 26 19:04	21° Ⅲ 38'32	45°37'09
	1905 Oct 21 18:32	0∘ ⊽			1908 May 05 17:44	0°€	
	1905 Nov 14 22:40	0°M		greatest brilliancy	1908 Jun 03 16:57	19° © 42'00	-4.7m
	1905 Dec 08 21:31	0° ∡ 7		retrograde	1908 Jun 14 14:51	21° © 51'17	
desc. node	1906 Jan 01 19:16	0° る 02'45		desc. node	1908 Jun 18 14:19	21°532'31	
desc. flode	1906 Jan 01 18:23	0 302 43 0°る		evening set	1908 Jun 29 22:04	17° © 22'01	
		0 3 2° る 26'51		•			2050124
morning set	1906 Jan 03 17:06			inferior conj	1908 Jul 06 03:30	13°538'16	
	1906 Jan 25 15:12	0° ≈		minimum elong	1908 Jul 05 19:34		3°56'30
				min. Earth dist.	1908 Jul 06 01:44	13° © 41'03	0.28999 AU
superior conj	1906 Feb 14 09:38	24° ≈ 48'11		morning rise	1908 Jul 11 16:54	10°©15'58	
minimum elong	1906 Feb 14 01:48	24° ≈ 23'39	1°20'32	direct	1908 Jul 27 18:25	5° © 20'38	
max. Earth dist.	1906 Feb 18 04:21	29° ≈ 32'16	1.71552 AU	greatest brilliancy	1908 Aug 07 06:45	7° © 19'03	-4.7m
	1906 Feb 18 13:13	0°) €			1908 Sep 08 22:32	$0^{\circ}\Omega$	
	1906 Mar 14 13:42	$0^{\circ}\mathbf{Y}$		morning max el	1908 Sep 14 21:28	5° Ω 38'14	46°02'11
evening rise	1906 Mar 26 15:14	14° Ƴ 59'51		Č	1908 Oct 08 06:13	O° Mp	
	1906 Apr 07 17:59	0°8		asc. node	1908 Oct 09 17:52	1° m/38'20	
asc. node	1906 Apr 24 22:53	21° 8 11'35		use. node	1908 Nov 03 11:29	೧∘ ರ	
asc. node	•	0° I				0° m .	
	1906 May 02 03:13				1908 Nov 28 10:43		
	1906 May 26 18:17	0°©			1908 Dec 22 20:01	0° ∡ 7	
	1906 Jun 20 16:35	0 ° Ω			1909 Jan 15 23:20	0° ろ	
	1906 Jul 16 01:18	0°Щ		desc. node	1909 Jan 29 07:07	16° පි 36'54	
	1906 Aug 11 03:21	0∘ ⊽			1909 Feb 09 00:41	0° ≈	
desc. node	1906 Aug 14 11:54	3° ≏ 46'13			1909 Mar 05 02:11	0° ∀	
	1906 Sep 07 15:32	0°M		morning set	1909 Mar 21 05:03	20°) €03'20	
evening max el	1906 Sep 20 22:07	13°M25'15	46°29'13		1909 Mar 29 05:12	0° Y	
	1906 Oct 09 10:31	0° ∡ 7			1909 Apr 22 10:35	9° 8	
greatest brilliancy	1906 Oct 31 06:14	13° ∡ ¹06′02	-4.9m		r		
greatest brilliancy retrograde	1906 Oct 31 06:14 1906 Nov 09 15:36	13° х 06′02 14° х 44′34	-4.9m	superior conj	1909 Apr 28 17:50	7° 8 47'01	-0°52'31
retrograde			-4.9m	1 3	1909 Apr 28 17:50	7° と 47'01 8° と 16'16	
retrograde evening set	1906 Nov 09 15:36 1906 Nov 24 05:05	14° х 44′34 10° х 36′22		minimum elong	1909 Apr 28 17:50 1909 Apr 29 03:18	8° 8 16'16	0°52'10
retrograde evening set inferior conj	1906 Nov 09 15:36 1906 Nov 24 05:05 1906 Nov 30 05:18	14° ₹ 44'34 10° ₹ 36'22 7° ₹ 06'06	-1°24'13	1 3	1909 Apr 28 17:50 1909 Apr 29 03:18 1909 May 01 06:37	8° 8 16'16 10° 8 54'32	
retrograde evening set inferior conj minimum elong	1906 Nov 09 15:36 1906 Nov 24 05:05 1906 Nov 30 05:18 1906 Nov 30 08:31	14° ₹ 44'34 10° ₹ 36'22 7° ₹ 06'06 7° ₹ 01'12	-1°24'13 1°23'10	minimum elong max. Earth dist.	1909 Apr 28 17:50 1909 Apr 29 03:18 1909 May 01 06:37 1909 May 16 18:31	8°816'16 10°854'32 0°∏	0°52'10
retrograde evening set inferior conj minimum elong min. Earth dist.	1906 Nov 09 15:36 1906 Nov 24 05:05 1906 Nov 30 05:18 1906 Nov 30 08:31 1906 Nov 30 11:40	14° ₹ 44'34 10° ₹ 36'22 7° ₹ 06'06 7° ₹ 01'12 6° ₹ 56'24	-1°24'13	minimum elong max. Earth dist.	1909 Apr 28 17:50 1909 Apr 29 03:18 1909 May 01 06:37 1909 May 16 18:31 1909 May 22 10:38	8° 8 16'16 10° 8 54'32 0°П 6°П58'41	0°52'10
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node	1906 Nov 09 15:36 1906 Nov 24 05:05 1906 Nov 30 05:18 1906 Nov 30 08:31 1906 Nov 30 11:40 1906 Dec 05 15:23	14° 🗗 44'34 10° 🗗 36'22 7° 🗗 06'06 7° 🗗 01'12 6° 🗗 56'24 3° 🗗 54'30	-1°24'13 1°23'10	minimum elong max. Earth dist.	1909 Apr 28 17:50 1909 Apr 29 03:18 1909 May 01 06:37 1909 May 16 18:31 1909 May 22 10:38 1909 Jun 05 02:43	8° 8 16'16 10° 8 54'32 0° П 6° П 58'41 23° П 46'09	0°52'10
retrograde evening set inferior conj minimum elong min. Earth dist.	1906 Nov 09 15:36 1906 Nov 24 05:05 1906 Nov 30 05:18 1906 Nov 30 08:31 1906 Nov 30 11:40 1906 Dec 05 15:23 1906 Dec 06 11:35	14° \$\times^444'34 10° \$\times^36'22 7° \$\times^00'06' 7° \$\times^101'12 6° \$\times^56'24 3° \$\times^54'30 3° \$\times^227'16	-1°24'13 1°23'10	minimum elong max. Earth dist.	1909 Apr 28 17:50 1909 Apr 29 03:18 1909 May 01 06:37 1909 May 16 18:31 1909 May 22 10:38 1909 Jun 05 02:43 1909 Jun 10 04:37	8° 8 16'16 10° 8 54'32 0°П 6°П58'41 23°П46'09 0°©	0°52'10
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise	1906 Nov 09 15:36 1906 Nov 24 05:05 1906 Nov 30 05:18 1906 Nov 30 08:31 1906 Nov 30 11:40 1906 Dec 05 15:23 1906 Dec 06 11:35 1906 Dec 15 11:43	14° \(\frac{7}{44} \) 44'34 10° \(\frac{7}{3} \) 36'22 7° \(\frac{7}{0} \) 06'06 7° \(\frac{7}{0} \) 01'12 6° \(\frac{7}{5} \) 56'24 3° \(\frac{7}{2} \) 54'30 3° \(\frac{7}{2} \) 27'16 30° RIL	-1°24'13 1°23'10	minimum elong max. Earth dist.	1909 Apr 28 17:50 1909 Apr 29 03:18 1909 May 01 06:37 1909 May 16 18:31 1909 May 22 10:38 1909 Jun 05 02:43 1909 Jun 10 04:37 1909 Jul 04 16:32	8°₺16'16 10°₺54'32 0°Ⅱ 6°Ⅱ58'41 23°Ⅱ46'09 0°ॐ 0°₽	0°52'10
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node	1906 Nov 09 15:36 1906 Nov 24 05:05 1906 Nov 30 05:18 1906 Nov 30 08:31 1906 Nov 30 11:40 1906 Dec 05 15:23 1906 Dec 06 11:35 1906 Dec 15 11:43 1906 Dec 20 16:26	14° \$\times^444'34\) 10° \$\times^36'22\) 7° \$\times^06'06\) 7° \$\times^01'12\) 6° \$\times^56'24\) 3° \$\times^52'16\) 30° RM. 29° \$\times^26'49\)	-1°24'13 1°23'10	minimum elong max. Earth dist.	1909 Apr 28 17:50 1909 Apr 29 03:18 1909 May 01 06:37 1909 May 16 18:31 1909 May 22 10:38 1909 Jun 05 02:43 1909 Jun 10 04:37 1909 Jul 04 16:32 1909 Jul 29 06:42	8°₺16'16 10°₺54'32 0°Ⅲ 6°Ⅲ58'41 23°Ⅲ46'09 0°₺ 0°₽	0°52'10
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct	1906 Nov 09 15:36 1906 Nov 24 05:05 1906 Nov 30 05:18 1906 Nov 30 08:31 1906 Nov 30 11:40 1906 Dec 05 15:23 1906 Dec 06 11:35 1906 Dec 15 11:43 1906 Dec 20 16:26 1906 Dec 25 23:48	14° \$\times^444'34\) 10° \$\times^36'22\) 7° \$\times^06'06\) 7° \$\times^01'12\) 6° \$\times^56'24\) 3° \$\times^52'16\) 30° RM. 29° M.26'49\) 0° \$\times^1	-1°24'13 1°23'10 0.26506 AU	minimum elong max. Earth dist.	1909 Apr 28 17:50 1909 Apr 29 03:18 1909 May 01 06:37 1909 May 16 18:31 1909 May 22 10:38 1909 Jun 05 02:43 1909 Jun 10 04:37 1909 Jul 04 16:32 1909 Jul 29 06:42 1909 Aug 23 00:34	8°₺16'16 10°₺54'32 0°Ⅲ 6°Ⅲ58'41 23°Ⅲ46'09 0°₷ 0°₽ 0°₽ 0°₽	0°52'10
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise	1906 Nov 09 15:36 1906 Nov 24 05:05 1906 Nov 30 05:18 1906 Nov 30 08:31 1906 Nov 30 11:40 1906 Dec 05 15:23 1906 Dec 06 11:35 1906 Dec 15 11:43 1906 Dec 20 16:26	14° \$\times^444'34\) 10° \$\times^36'22\) 7° \$\times^06'06\) 7° \$\times^01'12\) 6° \$\times^56'24\) 3° \$\times^52'16\) 30° RIL\) 29° IL 26'49\) 0° \$\times^129'48\]	-1°24'13 1°23'10 0.26506 AU	minimum elong max. Earth dist.	1909 Apr 28 17:50 1909 Apr 29 03:18 1909 May 01 06:37 1909 May 16 18:31 1909 May 22 10:38 1909 Jun 05 02:43 1909 Jun 10 04:37 1909 Jul 04 16:32 1909 Jul 29 06:42 1909 Aug 23 00:34 1909 Sep 10 23:59	8°816'16 10°854'32 0°11 6°1158'41 23°1146'09 0°\$0 0°\$1 0°\$1 0°\$2 22°\$\doldsymbol{\textit{2}}\$48'45	0°52'10
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct	1906 Nov 09 15:36 1906 Nov 24 05:05 1906 Nov 30 05:18 1906 Nov 30 08:31 1906 Nov 30 11:40 1906 Dec 05 15:23 1906 Dec 06 11:35 1906 Dec 15 11:43 1906 Dec 20 16:26 1906 Dec 25 23:48	14° \$\times^444'34\) 10° \$\times^36'22\) 7° \$\times^06'06\) 7° \$\times^01'12\) 6° \$\times^56'24\) 3° \$\times^52'16\) 30° RM. 29° M.26'49\) 0° \$\times^1	-1°24'13 1°23'10 0.26506 AU	minimum elong max. Earth dist. asc. node evening rise	1909 Apr 28 17:50 1909 Apr 29 03:18 1909 May 01 06:37 1909 May 16 18:31 1909 May 22 10:38 1909 Jun 05 02:43 1909 Jun 10 04:37 1909 Jul 04 16:32 1909 Jul 29 06:42 1909 Aug 23 00:34	8°₺16'16 10°₺54'32 0°Ⅲ 6°Ⅲ58'41 23°Ⅲ46'09 0°₷ 0°₽ 0°₽ 0°₽	0°52'10
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct	1906 Nov 09 15:36 1906 Nov 24 05:05 1906 Nov 30 05:18 1906 Nov 30 08:31 1906 Nov 30 11:40 1906 Dec 05 15:23 1906 Dec 06 11:35 1906 Dec 15 11:43 1906 Dec 20 16:26 1906 Dec 25 23:48 1906 Dec 31 02:13	14° \$\times^444'34\) 10° \$\times^36'22\) 7° \$\times^06'06\) 7° \$\times^01'12\) 6° \$\times^56'24\) 3° \$\times^52'16\) 30° RIL\) 29° IL 26'49\) 0° \$\times^129'48\]	-1°24'13 1°23'10 0.26506 AU	minimum elong max. Earth dist. asc. node evening rise	1909 Apr 28 17:50 1909 Apr 29 03:18 1909 May 01 06:37 1909 May 16 18:31 1909 May 22 10:38 1909 Jun 05 02:43 1909 Jun 10 04:37 1909 Jul 04 16:32 1909 Jul 29 06:42 1909 Aug 23 00:34 1909 Sep 10 23:59	8°816'16 10°854'32 0°11 6°1158'41 23°1146'09 0°\$0 0°\$1 0°\$1 0°\$2 22°\$\doldsymbol{\textit{2}}\$48'45	0°52'10
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct greatest brilliancy	1906 Nov 09 15:36 1906 Nov 24 05:05 1906 Nov 30 05:18 1906 Nov 30 08:31 1906 Nov 30 11:40 1906 Dec 05 15:23 1906 Dec 06 11:35 1906 Dec 15 11:43 1906 Dec 20 16:26 1906 Dec 25 23:48 1906 Dec 31 02:13 1907 Feb 06 16:28	14° 🖈 44'34 10° 🖈 36'22 7° 🖈 06'06 7° 🖈 01'12 6° 🖈 56'24 3° 🖈 54'30 3° 🗷 27'16 30° R M 29° M 26'49 0° 🖈 1° 🖈 29'48 0° る	-1°24'13 1°23'10 0.26506 AU	minimum elong max. Earth dist. asc. node evening rise	1909 Apr 28 17:50 1909 Apr 29 03:18 1909 May 01 06:37 1909 May 16 18:31 1909 May 22 10:38 1909 Jun 05 02:43 1909 Jun 10 04:37 1909 Jul 04 16:32 1909 Jul 29 06:42 1909 Aug 23 00:34 1909 Sep 10 23:59 1909 Sep 17 00:21	8°816'16 10°854'32 0° II 6°II 58'41 23°II 46'09 0° © 0° N 0° II 22° \Lambda 48'45 0° III	0°52'10
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct greatest brilliancy	1906 Nov 09 15:36 1906 Nov 24 05:05 1906 Nov 30 05:18 1906 Nov 30 08:31 1906 Nov 30 11:40 1906 Dec 05 15:23 1906 Dec 06 11:35 1906 Dec 15 11:43 1906 Dec 20 16:26 1906 Dec 25 23:48 1906 Dec 31 02:13 1907 Feb 06 16:28 1907 Feb 09 04:25	14° \$\times^444'34 10° \$\times^36'22 7° \$\times^06'06 7° \$\times^01'12 6° \$\times^56'24 3° \$\times^54'30 3° \$\times^227'16 30° RM 29° M26'49 0° \$\times^129'48 0° \$\times^229'55	-1°24'13 1°23'10 0.26506 AU	minimum elong max. Earth dist. asc. node evening rise	1909 Apr 28 17:50 1909 Apr 29 03:18 1909 May 01 06:37 1909 May 16 18:31 1909 May 22 10:38 1909 Jun 05 02:43 1909 Jun 10 04:37 1909 Jul 04 16:32 1909 Jul 29 06:42 1909 Aug 23 00:34 1909 Sep 10 23:59 1909 Sep 17 00:21 1909 Oct 12 09:28	8°816'16 10°854'32 0°	0°52'10
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct greatest brilliancy morning max el	1906 Nov 09 15:36 1906 Nov 24 05:05 1906 Nov 30 05:18 1906 Nov 30 08:31 1906 Nov 30 11:40 1906 Dec 05 15:23 1906 Dec 06 11:35 1906 Dec 15 11:43 1906 Dec 20 16:26 1906 Dec 25 23:48 1906 Dec 31 02:13 1907 Feb 06 16:28 1907 Feb 09 04:25 1907 Mar 06 20:44 1907 Mar 27 04:58	14° ₹44'34 10° ₹36'22 7° ₹06'06 7° ₹01'12 6° ₹56'24 3° ₹54'30 3° ₹27'16 30° RM 29° M26'49 0° ₹ 1° ₹29'48 0° ₹ 2° ₹329'55 0° ≈	-1°24'13 1°23'10 0.26506 AU	minimum elong max. Earth dist. asc. node evening rise	1909 Apr 28 17:50 1909 Apr 29 03:18 1909 May 01 06:37 1909 May 16 18:31 1909 May 22 10:38 1909 Jun 05 02:43 1909 Jun 10 04:37 1909 Jul 04 16:32 1909 Jul 29 06:42 1909 Aug 23 00:34 1909 Sep 10 23:59 1909 Sep 17 00:21 1909 Oct 12 09:28 1909 Nov 07 12:11 1909 Dec 02 17:37	8°816'16 10°854'32 0°用 6°用58'41 23°用46'09 0°© 0°凡 0°™ 0°© 22°№ 48'45 0°™	0°52'10 1.73066 AU
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct greatest brilliancy morning max el	1906 Nov 09 15:36 1906 Nov 24 05:05 1906 Nov 30 05:18 1906 Nov 30 08:31 1906 Nov 30 11:40 1906 Dec 05 15:23 1906 Dec 06 11:35 1906 Dec 15 11:43 1906 Dec 20 16:26 1906 Dec 25 23:48 1906 Dec 31 02:13 1907 Feb 06 16:28 1907 Feb 09 04:25 1907 Mar 06 20:44 1907 Mar 27 04:58 1907 Apr 02 01:28	14° ₹44'34 10° ₹36'22 7° ₹06'06 7° ₹01'12 6° ₹56'24 3° ₹54'30 3° ₹27'16 30° ₹M 29° M.26'49 0° ₹ 1° ₹29'48 0° ₹ 2° ₹329'55 0° ≈ 23° ≈11'51 0° ₹	-1°24'13 1°23'10 0.26506 AU	minimum elong max. Earth dist. asc. node evening rise desc. node	1909 Apr 28 17:50 1909 Apr 29 03:18 1909 May 01 06:37 1909 May 16 18:31 1909 May 22 10:38 1909 Jun 05 02:43 1909 Jun 10 04:37 1909 Jul 04 16:32 1909 Jul 29 06:42 1909 Aug 23 00:34 1909 Sep 10 23:59 1909 Sep 17 00:21 1909 Oct 12 09:28 1909 Nov 07 12:11 1909 Dec 02 17:37 1909 Dec 05 13:01	8°816'16 10°854'32 0°用 6°用58'41 23°用46'09 0°⑤ 0°凡 0°№ 0°№ 22° £48'45 0° 0° 27°♂10'23 0° ≈	0°52'10 1.73066 AU
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct greatest brilliancy morning max el	1906 Nov 09 15:36 1906 Nov 24 05:05 1906 Nov 30 05:18 1906 Nov 30 08:31 1906 Nov 30 11:40 1906 Dec 05 15:23 1906 Dec 06 11:35 1906 Dec 15 11:43 1906 Dec 20 16:26 1906 Dec 25 23:48 1906 Dec 31 02:13 1907 Feb 06 16:28 1907 Feb 09 04:25 1907 Mar 06 20:44 1907 Mar 27 04:58 1907 Apr 02 01:28 1907 Apr 27 12:29	14° ₹44'34 10° ₹36'22 7° ₹06'06 7° ₹01'12 6° ₹56'24 3° ₹54'30 3° ₹27'16 30° RM 29° M.26'49 0° ₹ 1° ₹29'48 0° ₹ 2° ₹329'55 0° ≈ 23° ≈ 11'51 0° ₩ 0° Υ	-1°24'13 1°23'10 0.26506 AU	minimum elong max. Earth dist. asc. node evening rise desc. node evening max el asc. node	1909 Apr 28 17:50 1909 Apr 29 03:18 1909 May 01 06:37 1909 May 16 18:31 1909 May 22 10:38 1909 Jun 05 02:43 1909 Jun 10 04:37 1909 Jul 04 16:32 1909 Jul 29 06:42 1909 Aug 23 00:34 1909 Sep 10 23:59 1909 Sep 17 00:21 1909 Oct 12 09:28 1909 Nov 07 12:11 1909 Dec 02 17:37 1909 Dec 05 13:01 1910 Jan 02 03:13	8°816'16 10°854'32 0°	0°52'10 1.73066 AU 47°18'32
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retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct greatest brilliancy morning max el desc. node asc. node morning set max. Earth dist.	1906 Nov 09 15:36 1906 Nov 24 05:05 1906 Nov 30 05:18 1906 Nov 30 08:31 1906 Nov 30 11:40 1906 Dec 05 15:23 1906 Dec 06 11:35 1906 Dec 15 11:43 1906 Dec 20 16:26 1906 Dec 25 23:48 1906 Dec 31 02:13 1907 Feb 06 16:28 1907 Feb 09 04:25 1907 Mar 06 20:44 1907 Mar 27 04:58 1907 Apr 02 01:28 1907 Apr 02 01:28 1907 Apr 27 12:29 1907 May 22 15:18 1907 Jun 16 13:14 1907 Jul 11 06:42 1907 Jul 18 08:14 1907 Aug 04 19:08 1907 Aug 09 10:37 1907 Aug 29 02:30 1907 Sep 11 13:10	14° 🗷 44'34 10° 🗷 36'22 7° 🗷 06'06 7° 🗷 01'12 6° 🗷 56'24 3° 🗷 54'30 3° 🗷 27'16 30° R M. 29° M. 26'49 0° 🗷 1° 🗷 29'48 0° ठ 2° ठ 29'55 0° २० 23° २० 11'51 0° २८ 0° १८ 0° १८ 0° १८ 0° १८ 0° १८ 0° १८ 0° १८ 0° १८ 0° १८ 0° १८ 0° १८ 16° 10 41'20	-1°24'13 1°23'10 0.26506 AU -4.9m 46°52'59	minimum elong max. Earth dist. asc. node evening rise desc. node evening max el asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	1909 Apr 28 17:50 1909 Apr 29 03:18 1909 May 01 06:37 1909 May 16 18:31 1909 May 22 10:38 1909 Jun 05 02:43 1909 Jun 10 04:37 1909 Jul 04 16:32 1909 Jul 29 06:42 1909 Aug 23 00:34 1909 Sep 10 23:59 1909 Sep 17 00:21 1909 Oct 12 09:28 1909 Nov 07 12:11 1909 Dec 02 17:37 1909 Dec 05 13:01 1910 Jan 02 03:13 1910 Jan 12 10:03 1910 Jan 15 20:55 1910 Jan 22 17:24 1910 Jan 29 09:12 1910 Feb 08 15:25 1910 Feb 11 16:00 1910 Feb 12 12:22 1910 Feb 15 19:06	8°816'16 10°854'32 0°用 6°用58'41 23°用46'09 0°© 0°和 0°™ 0°№ 22°№48'45 0°™ 0°% 27°♂10'23 0°≈ 23°≈32'04 28°≈53'08 0°升55'51 30°R≈ 25°≈18'06 23°≈27'24 22°≈55'45 23°≈07'00 20°≈55'02	0°52'10 1.73066 AU 47°18'32 -4.9m 0.27265 AU 8°15'30
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct greatest brilliancy morning max el desc. node asc. node morning set max. Earth dist. superior conj	1906 Nov 09 15:36 1906 Nov 24 05:05 1906 Nov 30 05:18 1906 Nov 30 08:31 1906 Nov 30 11:40 1906 Dec 05 15:23 1906 Dec 06 11:35 1906 Dec 15 11:43 1906 Dec 20 16:26 1906 Dec 25 23:48 1906 Dec 31 02:13 1907 Feb 06 16:28 1907 Feb 09 04:25 1907 Mar 06 20:44 1907 Mar 27 04:58 1907 Apr 02 01:28 1907 Apr 02 01:28 1907 Apr 27 12:29 1907 May 22 15:18 1907 Jun 16 13:14 1907 Jul 11 06:42 1907 Jul 18 08:14 1907 Aug 04 19:08 1907 Aug 09 10:37 1907 Aug 29 02:30 1907 Sep 15 01:36	14° **44'34 10° **36'22 7° **706'06 7° **701'12 6° **756'24 3° **754'30 3° **727'16 30° RM 29° M.26'49 0° ***71° **729'48 0° **529'55 0° ※ 23° ※11'51 0° **H 0° **Y 0° **B 0° **T 0° **S 0° **T 10° **S 11'50 0° **T 10° **S 10° **S 11'50 0° **T 10° **S 10° **S 11'50 0° **T 10° **S 10° **S 11'50 0° **S 11'50 0° **T 10° **S 1	-1°24'13 1°23'10 0.26506 AU -4.9m 46°52'59	minimum elong max. Earth dist. asc. node evening rise desc. node evening max el asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	1909 Apr 28 17:50 1909 Apr 29 03:18 1909 May 01 06:37 1909 May 16 18:31 1909 May 22 10:38 1909 Jun 05 02:43 1909 Jun 05 02:43 1909 Jul 04 16:32 1909 Jul 29 06:42 1909 Aug 23 00:34 1909 Sep 10 23:59 1909 Sep 17 00:21 1909 Oct 12 09:28 1909 Nov 07 12:11 1909 Dec 02 17:37 1909 Dec 05 13:01 1910 Jan 02 03:13 1910 Jan 12 10:03 1910 Jan 15 20:55 1910 Jan 22 17:24 1910 Jan 29 09:12 1910 Feb 08 15:25 1910 Feb 11 16:00 1910 Feb 12 12:22 1910 Feb 15 19:06 1910 Mar 05 01:55	8° 816'16 10° 854'32 0° II 6° II 58'41 23° II 46'09 0° © 0° Ω 0° ID 0° ID 22° Q 48'45 0° II 0° X 0° Z 27° Z 10'23 0° ∞ 23° ≈ 32'04 28° ≈ 53'08 0° X 0° X 55'51 30° R≈ 25° ≈ 18'06 23° ≈ 27'24 22° ≈ 55'45 23° ≈ 07'00 20° ≈ 55'02 15° ≈ 07'12	0°52'10 1.73066 AU 47°18'32 -4.9m 0.27265 AU 8°15'30 8°14'41
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct greatest brilliancy morning max el desc. node asc. node morning set max. Earth dist. superior conj	1906 Nov 09 15:36 1906 Nov 24 05:05 1906 Nov 30 05:18 1906 Nov 30 08:31 1906 Nov 30 11:40 1906 Dec 05 15:23 1906 Dec 06 11:35 1906 Dec 15 11:43 1906 Dec 20 16:26 1906 Dec 25 23:48 1906 Dec 31 02:13 1907 Feb 06 16:28 1907 Feb 09 04:25 1907 Mar 06 20:44 1907 Mar 27 04:58 1907 Apr 02 01:28 1907 Apr 02 01:28 1907 Apr 27 12:29 1907 May 22 15:18 1907 Jun 16 13:14 1907 Jul 11 06:42 1907 Jul 18 08:14 1907 Aug 04 19:08 1907 Aug 09 10:37 1907 Aug 29 02:30 1907 Sep 15 01:36 1907 Sep 15 01:36	14° **44'34 10° **36'22 7° **706'06 7° **701'12 6° **756'24 3° **754'30 3° **727'16 30° RM 29° M.26'49 0° ***71° **729'48 0° **529'55 0° ***811'51 0° **H 0° **Y 0° **B 0° **T 0° **S37'02 0° **R 10° **S37'02 0° **R 10° **S37'02 0° **R 10° **P 10° **R 10°	-1°24'13 1°23'10 0.26506 AU -4.9m 46°52'59	minimum elong max. Earth dist. asc. node evening rise desc. node evening max el asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	1909 Apr 28 17:50 1909 Apr 29 03:18 1909 May 01 06:37 1909 May 16 18:31 1909 May 22 10:38 1909 Jun 05 02:43 1909 Jun 05 02:43 1909 Jul 04 16:32 1909 Jul 29 06:42 1909 Aug 23 00:34 1909 Sep 10 23:59 1909 Sep 17 00:21 1909 Oct 12 09:28 1909 Nov 07 12:11 1909 Dec 02 17:37 1909 Dec 05 13:01 1910 Jan 02 03:13 1910 Jan 12 10:03 1910 Jan 12 10:03 1910 Jan 15 20:55 1910 Jan 29 09:12 1910 Feb 08 15:25 1910 Feb 11 16:00 1910 Feb 12 12:22 1910 Feb 12 12:22 1910 Feb 15 19:06 1910 Mar 05 01:55 1910 Mar 14 02:29	8°816'16 10°854'32 0°用 6°用58'41 23°用46'09 0°© 0°Ω 0°™ 0°№ 22°№48'45 0°™ 0°♂ 27°♂10'23 0°≈ 23°≈32'04 28°≈53'08 0°升 0°升55'51 30°R≈ 25°≈18'06 23°≈27'24 22°≈55'45 23°≈07'00 20°≈55'02 15°≈07'12 16°≈39'21	0°52'10 1.73066 AU 47°18'32 -4.9m 0.27265 AU 8°15'30 8°14'41
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct greatest brilliancy morning max el desc. node asc. node morning set max. Earth dist. superior conj	1906 Nov 09 15:36 1906 Nov 24 05:05 1906 Nov 30 05:18 1906 Nov 30 05:18 1906 Nov 30 08:31 1906 Nov 30 11:40 1906 Dec 05 15:23 1906 Dec 06 11:35 1906 Dec 15 11:43 1906 Dec 20 16:26 1906 Dec 25 23:48 1906 Dec 31 02:13 1907 Feb 06 16:28 1907 Feb 09 04:25 1907 Mar 06 20:44 1907 Mar 27 04:58 1907 Apr 02 01:28 1907 Apr 02 01:28 1907 Apr 27 12:29 1907 May 22 15:18 1907 Jun 16 13:14 1907 Jul 11 06:42 1907 Jul 18 08:14 1907 Aug 04 19:08 1907 Aug 09 10:37 1907 Aug 09 10:37 1907 Aug 29 02:30 1907 Sep 15 01:36 1907 Sep 15 01:36 1907 Sep 15 03:10 1907 Sep 22 05:52	14° \$\times 44'34 10° \$\times 36'22 7° \$\times 06'06 7° \$\times 01'12 6° \$\times 56'24 3° \$\times 56'24 3° \$\times 56'24 3° \$\times 56'24 3° \$\times 56'27'16 30° RML 29° \$\times 22'16 40° \$\times 12'55 0° \$\times 23' \$\times 11'51 0° \$\times	-1°24'13 1°23'10 0.26506 AU -4.9m 46°52'59	minimum elong max. Earth dist. asc. node evening rise desc. node evening max el asc. node greatest brilliancy retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	1909 Apr 28 17:50 1909 Apr 29 03:18 1909 May 01 06:37 1909 May 16 18:31 1909 May 22 10:38 1909 Jun 05 02:43 1909 Jun 05 02:43 1909 Jul 04 16:32 1909 Jul 29 06:42 1909 Aug 23 00:34 1909 Sep 10 23:59 1909 Sep 17 00:21 1909 Oct 12 09:28 1909 Nov 07 12:11 1909 Dec 02 17:37 1909 Dec 05 13:01 1910 Jan 02 03:13 1910 Jan 12 10:03 1910 Jan 15 20:55 1910 Jan 22 17:24 1910 Jan 29 09:12 1910 Feb 12 12:22 1910 Feb 12 16:00 1910 Feb 12 12:22 1910 Feb 15 19:06 1910 Mar 05 01:55 1910 Mar 14 02:29 1910 Apr 05 09:53	8°816'16 10°854'32 0°用 6°用58'41 23°用46'09 0°© 0°Ω 0°™ 0°™ 0°™ 0°™ 0°™ 22°№48'45 0°™ 0°™ 23°≈32'04 28°≈53'08 0°Ж 0°Ж55'51 30°R≈ 25°≈18'06 23°≈27'24 22°≈55'45 23°≈07'00 20°≈55'02 15°≈07'12 16°≈39'21 0°Ж	0°52'10 1.73066 AU 47°18'32 -4.9m 0.27265 AU 8°15'30 8°14'41

	1910 May 07 02:27	0 ° Υ		asc. node	1913 Jan 29 15:09	25° ¥ 19′07	
	1910 Jun 03 14:58	0°B			1913 Feb 02 23:22	0° Y	
	1910 Jun 29 19:32	$\Pi^{\circ}0$		evening max el	1913 Feb 12 14:26	10° Ƴ 00'33	46°43'26
	1910 Jul 25 07:01	0°ಅ		Č	1913 Mar 06 17:09	0°B	
asc. node	1910 Aug 14 20:07	24° © 39'33		greatest brilliancy	1913 Mar 24 03:38	10° 8 23'09	-4.8m
	1910 Aug 19 05:56	$0^{\circ}\Omega$		retrograde	1913 Apr 03 19:46	12° 8 29'54	
	1910 Sep 12 18:29	0° m)		evening set	1913 Apr 20 06:21	7° 8 13'20	
	1910 Oct 06 23:11	0° ت		inferior conj	1913 Apr 25 01:48		5°43'14
morning set	1910 Oct 18 05:20	0 — 14° Ω 03'15		minimum elong	1913 Apr 25 11:30		5°41'04
morning set	1910 Oct 18 03:20 1910 Oct 30 22:53	0°M		min. Earth dist.	1913 Apr 25 01:06	4° 8 16'11	0.28547 AU
	1910 Oct 30 22:33 1910 Nov 23 20:09	0 IIC 0° √ 7			•	0° 8 49'19	0.28347 AU
Double 41:4			1 71107 AII	morning rise	1913 Apr 30 17:05	_	
max. Earth dist.	1910 Nov 25 17:17	2° x '21'32	1.71197 AU	1.	1913 May 02 05:12	30°₹ Υ	
				direct	1913 May 16 09:38	26° Y ′04'44	
superior conj	1910 Nov 26 13:53	3° ∡ ¹26'39 −		desc. node	1913 May 21 04:21	26° Y 30'45	
minimum elong	1910 Nov 26 18:36	3° ∡ ⁴41'27	0°18'21	greatest brilliancy	1913 May 26 05:08	27° Y ′50′10	-4.7m
desc. node	1910 Dec 04 09:31	13° ∡ 16'40			1913 May 31 09:45	0°8	
	1910 Dec 17 16:38	8°0		morning max el	1913 Jul 04 04:00	25° 8 55'03	45°43'51
evening rise	1911 Jan 06 22:16	25° る 26'15			1913 Jul 08 09:16	Π $^{\circ}0$	
	1911 Jan 10 13:28	0° ≈			1913 Aug 05 23:33	0 \circ \odot	
	1911 Feb 03 12:03	0° ∀			1913 Sep 01 09:19	$0^{\circ}\Omega$	
	1911 Feb 27 14:29	0 ° Υ		asc. node	1913 Sep 11 08:06	11° Ω 40′54	
	1911 Mar 23 23:35	0°8			1913 Sep 26 16:04	0° m/	
asc. node	1911 Mar 27 13:00	4° 8 20'25			1913 Oct 21 06:02	0∘ <u>⊽</u>	
	1911 Apr 17 18:56	0°П			1913 Nov 14 09:54	0° M ₊	
	1911 May 13 05:42	0. 0			1913 Dec 08 08:38	0° ⊼ 7	
	1911 Jun 08 18:48	$0^{\circ}\Omega$		desc. node	1913 Dec 31 21:20	29° х 34'33	
evening max el	1911 Jul 07 16:02	29° Ω 52'46	45°20'03	morning set	1914 Jan 01 02:58	29° × 52'16	
evening max ci			43 29 03	morning set	1914 Jan 01 05:25	0°る	
1 1-	1911 Jul 07 19:04	0°M)					
desc. node	1911 Jul 17 02:09	8° Mp 30'28	4.7		1914 Jan 25 02:09	0° ≈	
greatest brilliancy	1911 Aug 15 17:00	27° m/49'05	-4.7m		101451 11 20 26	222 10105	1010112
retrograde	1911 Aug 25 07:54	29° Tp 28'40		superior conj	1914 Feb 11 20:36	22° ≈ 18′05	
evening set	1911 Sep 12 08:39	23° Mp 25'48		minimum elong	1914 Feb 11 11:59	21° ≈ 51′05	
inferior conj	1911 Sep 15 11:56	21°Mp30'52		max. Earth dist.	1914 Feb 15 13:03	26° ≈ 55'08	1.71502 AU
minimum elong	1911 Sep 15 13:36	21°Mp28'18			1914 Feb 18 00:05	0° ∀	
min. Earth dist.	1911 Sep 16 04:13	21°Mp05'44	0.28289 AU		1914 Mar 14 00:30	0° Y	
morning rise	1911 Sep 18 18:24	19° m 30'56		evening rise	1914 Mar 24 04:15	12° Y 37'44	
direct	1911 Oct 06 20:24	13° Mp 22'50			1914 Apr 07 04:48	0° 8	
greatest brilliancy	1911 Oct 17 21:18	15° Mp 38'33	-4.8m	asc. node	1914 Apr 24 00:51	20° 8 44'08	
asc. node	1911 Nov 07 05:30	28° Mp 29'40			1914 May 01 14:11	$\Pi^{\circ}0$	
	1911 Nov 09 00:55	0∘ ⊽			1914 May 26 05:33	0 \circ \odot	
morning max el	1911 Nov 26 08:33	16° ≙ 15'13	46°45'05		1914 Jun 20 04:26	$0^{\circ}\Omega$	
	1911 Dec 09 09:23	0°M₊			1914 Jul 15 14:10	0° m)	
	1912 Jan 04 18:38	0° ∡ ¹			1914 Aug 10 18:11	0∘ ⊽	
	1912 Jan 29 22:45	0° ප		desc. node	1914 Aug 13 14:04	3° ჲ 09'51	
	1912 Feb 23 15:29	0° ≈			1914 Sep 07 10:58	0° M	
desc. node	1912 Feb 26 19:05	3° ≈ 50'47		evening max el	1914 Sep 18 10:01	11°M00'16	46°26'43
dese. node	1912 Mar 19 03:48	0°) €		evening man er	1914 Oct 10 01:49	0° ⊼	.0 20 .5
	1912 Apr 12 14:50	0°Υ		greatest brilliancy	1914 Oct 28 19:42	10° х 40′09	-4.9m
	1912 May 07 01:57	0°8		retrograde	1914 Nov 07 03:11	12° 🗷 17'20	1.7111
morning set	1912 May 30 12:01	28° 8 42'29		evening set	1914 Nov 21 18:57	8°×7'06'34	
morning set	1912 May 30 12:01	28 O 42 29 0° Ⅱ		inferior conj	1914 Nov 27 17:35	4°×738'50	1040112
	•			,			
asc. node	1912 Jun 18 22:28	22° ∏ 32'44		minimum elong	1914 Nov 27 21:41	4° ₹ ³32'36	
F 4 F	1912 Jun 25 00:12	0.22	1 52550 AXX	min. Earth dist.	1914 Nov 28 01:49	4° ₹ 26'18	0.26538 AU
max. Earth dist.	1912 Jul 04 16:10	52'23	1.73558 AU	morning rise	1914 Dec 03 23:55	0° ∡ 759'47	
				asc. node	1914 Dec 04 17:23	0° ∡ ³37′01	
superior conj	1912 Jul 06 02:31	13° © 37'58			1914 Dec 05 23:20	30°RM	
minimum elong	1912 Jul 05 19:22	13° © 15'58	0°39'00	direct	1914 Dec 18 04:29	26°M58'33	
	1912 Jul 19 09:44	$0 {\circ} \Omega$		greatest brilliancy	1914 Dec 28 17:10	29° M 04'00	-4.9m
evening rise	1912 Aug 10 21:56	27° Ω 44'54			1914 Dec 30 23:15	0° ∡ ¹	
	1912 Aug 12 17:43	0° m/		morning max el	1915 Feb 06 17:25	0° る 03'41	46°53'54
	1912 Sep 06 00:53	0∘ ⊽			1915 Feb 06 15:57	0°ප	
	1912 Sep 30 08:26	0° M			1915 Mar 06 13:15	0° ≈	
desc. node	1912 Oct 08 11:53	10°M01'59		desc. node	1915 Mar 26 06:58	22° ≈ 36′09	
	1912 Oct 24 17:25	0°⊀			1915 Apr 01 15:19	0°) €	
	1912 Nov 18 05:03	ರ°0			1915 Apr 27 00:56	0° Y	
	1912 Dec 12 22:23	0° ≈			1915 May 22 02:56	0° ႘	
	1913 Jan 07 05:27	0°) €			1915 Jun 16 00:21	0°II	
						-	

	1015 1 1 10 17 21	005			1010 F 1 06 01 10	220 - 50105	
i	1915 Jul 10 17:31	0.02 0.02		evening set	1918 Feb 06 01:10	22°≈59'05	0.27200 441
asc. node	1915 Jul 17 10:21	8°9510'42		min. Earth dist.	1918 Feb 09 04:34	21°≈04'17	0.27208 AU
	1915 Aug 04 05:47	0° Ω		inferior conj	1918 Feb 10 01:45	20°≈31'25	8°06'58
morning set	1915 Aug 07 04:14	3° Ω 36'39		minimum elong	1918 Feb 09 17:53	20° ≈ 43'38	8°05'58
	1915 Aug 28 13:06	0° m/y		morning rise	1918 Feb 13 10:54	18°≈27'23	
max. Earth dist.	1915 Sep 09 07:40	14° m 36'38	1.72530 AU	direct	1918 Mar 02 15:24	12°≈43'56	
				greatest brilliancy	1918 Mar 11 14:39	14°≈15′28	-4.8m
superior conj	1915 Sep 12 18:19	18° m 53'31			1918 Apr 05 20:11	0° ∀	
minimum elong	1915 Sep 12 19:09	18° m 56'06	1°24'47	morning max el	1918 Apr 21 05:42	14°) €04'03	46°14'31
	1915 Sep 21 16:31	0∘ ⊽		desc. node	1918 Apr 22 18:39	15°) 34'36	
	1915 Oct 15 17:42	0° M			1918 May 06 20:58	0° Υ	
evening rise	1915 Oct 20 16:19	6° ™ 10'17			1918 Jun 03 05:27	0°8	
desc. node	1915 Nov 05 23:44	26° ™ 32'39			1918 Jun 29 08:12	Π °0	
	1915 Nov 08 18:06	0° ⊀			1918 Jul 24 18:43	0 \circ \odot	
	1915 Dec 02 18:38	0°ප		asc. node	1918 Aug 13 22:14	24° © 11'59	
	1915 Dec 26 20:21	0° ≈			1918 Aug 18 17:06	0 $^{\circ}$ Ω	
	1916 Jan 20 01:40	0°) €			1918 Sep 12 05:23	0° m y	
	1916 Feb 13 15:24	0 ° Υ			1918 Oct 06 10:00	0∘ ⊽	
asc. node	1916 Feb 27 03:04	16° Ƴ 08'58		morning set	1918 Oct 15 19:58	11° ≏ 45'14	
	1916 Mar 09 21:49	0°B			1918 Oct 30 09:43	0° M ₊	
	1916 Apr 05 13:31	Π $^{\circ}0$		max. Earth dist.	1918 Nov 23 00:18	29° M 38'51	1.71221 AU
evening max el	1916 Apr 24 10:33	19° Ⅲ 27′04	45°38'52		1918 Nov 23 07:02	0° ∡ ¹	
	1916 May 05 20:37	0 \circ \odot					
greatest brilliancy	1916 Jun 01 08:19	17° © 33'04	-4.7m	superior conj	1918 Nov 24 01:05	0° ∡ ¹56'45	0°22'21
retrograde	1916 Jun 12 07:48	19° © 43'52		minimum elong	1918 Nov 24 06:39	1° ∡ 14'14	0°22'05
desc. node	1916 Jun 17 16:20	19° 5 09'34		desc. node	1918 Dec 03 11:38	12° ∡ ¹48'58	
evening set	1916 Jun 27 13:14	15° © 15'47			1918 Dec 17 03:34	0° ප	
inferior conj	1916 Jul 03 19:56	11° 5 30'21	-3°40'57	evening rise	1919 Jan 04 08:11	22° る 52'06	
minimum elong	1916 Jul 03 12:27	11° 5 42'03	3°38'57		1919 Jan 10 00:28	0° ≈	
min. Earth dist.	1916 Jul 03 17:53	11° © 33'35	0.28999 AU		1919 Feb 02 23:08	0° ₩	
morning rise	1916 Jul 09 11:35	8° © 05'11			1919 Feb 27 01:43	$0^{\circ}\mathbf{Y}$	
direct	1916 Jul 25 10:48	3° © 12'36			1919 Mar 23 11:08	0°8	
greatest brilliancy	1916 Aug 04 22:52	5° © 11'03	-4.7m	asc. node	1919 Mar 26 14:57	3° 8 51'04	
· ·	1916 Sep 08 22:26	$0^{\circ}\Omega$			1919 Apr 17 07:03	$\Pi^{\circ}0$	
morning max el	1916 Sep 12 13:57	3° Ω 28'56	46°00'52		1919 May 12 18:59	0ಂತಾ	
. <i>&</i>	1916 Oct 07 22:11	0° m)			1919 Jun 08 10:35	0°N	
asc. node	1916 Oct 08 19:48	0° m 59'55		evening max el	1919 Jul 05 07:08	27° Ω 40'13	45°28'05
	1916 Nov 03 00:59	0∘ ⊽		* · · · · · · · · · · · · · · · · · · ·	1919 Jul 07 18:17	0° m)	
	1916 Nov 27 23:07	0° ™		desc. node	1919 Jul 16 04:21	7° m) 34'01	
	1916 Dec 22 07:50	0° ⊼ 7		greatest brilliancy	1919 Aug 13 06:34	25° m/34'34	-4.7m
	1917 Jan 15 10:46	0°ਤ		retrograde	1919 Aug 22 21:51	27° m) 14'23	,
desc. node	1917 Jan 28 09:16	16° る 08'26		evening set	1919 Sep 09 23:02	21° mp 11'59	
dese. Hode	1917 Feb 08 11:50	0° ≈		inferior conj	1919 Sep	19° m) 16'02	-8°43'07
	1917 Mar 04 13:09	0°) €		minimum elong	1919 Sep 13 03:38	19° m) 14'47	
morning set	1917 Mar 18 17:55	17°) 40'17		min. Earth dist.	1919 Sep 13 18:20	18° m) 52'02	0.28342 AU
morning sec	1917 Mar 28 16:01	0° Υ		morning rise	1919 Sep 16 08:04	17° m) 17'36	0.203 12 110
	1917 Apr 21 21:17	%8 0°8		direct	1919 Oct 04 11:46	11° mp 07'25	
	1317 11p1 21 21.117	ů O		greatest brilliancy	1919 Oct 15 12:00	13° m) 21'46	-4.8m
superior conj	1917 Apr 26 09:27	5° 8 34'08	-0°55'12	asc. node	1919 Nov 06 07:35	27° m) 24'33	
minimum elong	1917 Apr 26 19:11	6° 8 04'11		use. Houe	1919 Nov 09 08:05	0∘ ⊽	
max. Earth dist.	1917 Apr 29 00:23	8° 8 48'24	1.73022 AU	morning max el	1919 Nov 23 22:17	0 — 13° Ω 52'46	46°43'42
max. Lattii dist.	1917 May 16 05:08	0°П	1.75022 710	morning max cr	1919 Dec 09 03:29	0°M	40 43 42
asc. node	1917 May 21 12:42	6°∏32'20			1920 Jan 04 09:20	0° ⊼	
evening rise	1917 Jun 02 20:42	21° II 41'30			1920 Jan 29 11:55	%ਰ	
evening rise	1917 Jun 09 15:15	0°95			1920 Feb 23 03:47	0° ≈	
	1917 Jul 04 03:20	0°Ω		desc. node	1920 Feb 25 03:47 1920 Feb 25 21:06	0 ∞ 3° ≈ 19'40	
	1917 Jul 04 03:20 1917 Jul 28 17:52	0° mp		desc. Hode	1920 Mar 18 15:31	0°)	
	1917 Jul 28 17.32 1917 Aug 22 12:19	0∘ ⊽ 0 ım			1920 Mai 18 13.31 1920 Apr 12 02:07	0 K 0°Υ	
desc. node	-	0 = 22° ₽ 17'38			-	0°8	
acse. Hour	1917 Sep 10 01:58 1917 Sep 16 13:00	0°M		morning set	1920 May 06 12:55 1920 May 28 05:32	26° 8 36'01	
	1917 Sep 16 13:00 1917 Oct 11 23:33	0°11L 0° √ 7		morning set	1920 May 28 05:32 1920 May 31 00:05	0°Ⅱ	
	1917 Oct 11 23:33 1917 Nov 07 05:01	0° X ′		oco nodo	1920 May 31 00:05 1920 Jun 18 00:35	0°П 22°П06'22	
avanina may -1			17010111	asc. node		22° П 06'22	
evening max el	1917 Nov 30 08:48	24° る 49'50	47°18'14	may Forth di-t	1920 Jun 24 10:53		1 72567 ATT
aga nada	1917 Dec 05 13:14	0°≈ 22°0004'18		max. Earth dist.	1920 Jul 02 11:41	9° © 52'06	1.73567 AU
asc. node	1918 Jan 01 05:22	22°≈04'18	4.00-	amoria	1020 Jul 02 20 51	110@22150	0026120
greatest brilliancy	1918 Jan 09 23:22	26°≈27'27	-4.9m	superior conj	1920 Jul 03 20:51	11°533'59	0°36'30
retrograde	1918 Jan 20 07:51	28° ≈ 30'51		minimum elong	1920 Jul 03 14:05	11° © 13'11	0°36'11

	1920 Jul 18 20:25	0°N		greatest brilliancy	1922 Dec 26 07:46	26°M37'58	-4.9m
evening rise	1920 Aug 08 16:18	25° Ω 40'13		greatest offinancy	1923 Jan 02 07:27	20 11 0 37 30	-4 .7III
e vening rise	1920 Aug 12 04:30	0°m		morning max el	1923 Feb 04 07:26	27° х 39'44	46°54'38
	1920 Sep 05 11:53	0∘ ಹ		morning man er	1923 Feb 06 14:34	0°ਰ	.0 2.30
	1920 Sep 29 19:45	0° M .			1923 Mar 06 05:38	0° ≈	
desc. node	1920 Oct 07 13:54	9°M32'55		desc. node	1923 Mar 25 08:57	22°≈00'00	
	1920 Oct 24 05:11	0° ∡ 7			1923 Apr 01 05:16	0°) €	
	1920 Nov 17 17:28	0°ರ			1923 Apr 26 13:36	$0^{\circ}\mathbf{\Upsilon}$	
	1920 Dec 12 11:46	0° ≈			1923 May 21 14:50	9° 8	
	1921 Jan 06 20:32	0°) €			1923 Jun 15 11:46	$\Pi^{\circ}0$	
asc. node	1921 Jan 28 17:12	24°) €35′26			1923 Jul 10 04:36	0°50	
	1921 Feb 02 18:35	$0^{\circ}\mathbf{\Upsilon}$		asc. node	1923 Jul 16 12:24	7° 5 43'16	
evening max el	1921 Feb 10 04:28	7° Ƴ 39'54	46°45'41		1923 Aug 03 16:42	$0^{\circ}\Omega$	
	1921 Mar 07 09:18	9° 8		morning set	1923 Aug 04 21:44	1° Ω 29'15	
greatest brilliancy	1921 Mar 21 21:03	8° 8 11'03	-4.8m		1923 Aug 27 23:59	0° m ∕	
retrograde	1921 Apr 01 11:19	10° 8 16'29		max. Earth dist.	1923 Sep 07 02:22	12° m 31'39	1.72581 AU
evening set	1921 Apr 18 01:01	4° 8 56'05					
inferior conj	1921 Apr 22 17:37		5°58'43	superior conj	1923 Sep 10 11:01	16° Mp 42'13	
minimum elong	1921 Apr 23 03:25	_	5°56'35	minimum elong	1923 Sep 10 11:07	16° Mp 42′32	1°24'51
min. Earth dist.	1921 Apr 22 16:56	_	0.28518 AU		1923 Sep 21 03:28	0₀ ಹ	
	1921 Apr 25 23:46	30° ₹ Υ			1923 Oct 15 04:49	0° M ₊	
morning rise	1921 Apr 28 06:09	28° Ƴ 39'49		evening rise	1923 Oct 18 06:04	3°M48'39	
direct	1921 May 14 00:27	23° Y 52'08		desc. node	1923 Nov 05 01:52	26°M04'09	
desc. node	1921 May 20 06:28	24° Y 35′56			1923 Nov 08 05:23	0° ∡	
greatest brilliancy	1921 May 23 20:03	25° Y 37'12	-4.7m		1923 Dec 02 06:06	0°ප	
	1921 Jun 02 04:21	0° 8			1923 Dec 26 08:03	0° ≈	
morning max el	1921 Jul 01 18:31	23° 8 41'12	45°44'07		1924 Jan 19 13:45	0°) €	
	1921 Jul 08 05:57	0° Ⅱ			1924 Feb 13 04:10	0°Υ 1.50 0 00.511.1	
	1921 Aug 05 14:42	0°©		asc. node	1924 Feb 26 05:00	15° Y 35'11	
,	1921 Aug 31 22:24	0°N			1924 Mar 09 11:55	8°0	
asc. node	1921 Sep 10 09:59	11° Ω 09'13			1924 Apr 05 06:46	0°Ⅲ 17°Ⅲ16'50	45940120
	1921 Sep 26 04:08	0 ்⊽ 0° மி		evening max el	1924 Apr 22 02:58	0°9	45-40-30
	1921 Oct 20 17:35 1921 Nov 13 21:11	0°M		arantast brillianav	1924 May 06 01:49	0 55 15°523'07	4.7
	1921 Nov 13 21.11 1921 Dec 07 19:47	0° √ 1		greatest brilliancy retrograde	1924 May 29 23:50 1924 Jun 10 00:50	13 \$2307 17°\$35'00	-4. / III
morning set	1921 Dec 07 19:47 1921 Dec 29 12:59	0 x ⁴ 27° x ⁴17'55		desc. node	1924 Jun 16 18:28	17 \$33 00 16° \$340'35	
desc. node	1921 Dec 29 12:39 1921 Dec 30 23:27	29° × 06'20		evening set	1924 Jun 25 04:36	13°908'11	
dese. Hode	1921 Dec 30 25:27	0°중		inferior conj	1924 Jul 01 12:20	9° 5 21'06	-3°22'54
	1922 Jan 24 13:13	0° ≈		minimum elong	1924 Jul 01 05:21	9°932'00	
	1,22 3411 21 13.13	0 / 0 /		min. Earth dist.	1924 Jul 01 09:53	9° 5 24'56	0.28996 AU
superior conj	1922 Feb 09 07:16	19° ≈ 46'32	-1°17'37	morning rise	1924 Jul 07 06:08	5°953'08	0.20330110
minimum elong	1922 Feb 08 21:55	19° ≈ 17'11		direct	1924 Jul 23 03:34	1°903'27	
max. Earth dist.	1922 Feb 12 17:50	24°≈05'15	1.71460 AU	greatest brilliancy	1924 Aug 02 14:23	3° © 01'13	-4.7m
	1922 Feb 17 11:06	0°) €			1924 Sep 08 21:43	$0^{\circ}\Omega$	
	1922 Mar 13 11:30	$0^{\circ}\mathbf{\Upsilon}$		morning max el	1924 Sep 10 06:32	1° Ω 19′00	45°59'30
evening rise	1922 Mar 21 16:43	10° Ƴ 13'12		asc. node	1924 Oct 07 21:57	0° Mp 21′22	
	1922 Apr 06 15:50	8° 0			1924 Oct 07 14:16	0° m	
asc. node	1922 Apr 23 02:53	20° 8 16'16			1924 Nov 02 14:43	0∘ ত	
	1922 May 01 01:21	$\Pi^{\circ}0$			1924 Nov 27 11:48	0°M₊	
	1922 May 25 17:04	0 \circ \odot			1924 Dec 21 19:56	0° ∡	
	1922 Jun 19 16:32	$0^{\circ}\Omega$			1925 Jan 14 22:28	0°₹	
	1922 Jul 15 03:22	0° m p		desc. node	1925 Jan 27 11:16	15° る 38'36	
	1922 Aug 10 09:30	0∘ ত			1925 Feb 07 23:16	0°≈	
desc. node	1922 Aug 12 16:03	2° ≙ 31'56			1925 Mar 04 00:21	0° ℋ	
	1922 Sep 07 07:15	0° M .		morning set	1925 Mar 16 07:05	15°) 17′23	
evening max el	1922 Sep 15 22:28	8°M36'18	46°24'22		1925 Mar 28 03:04	0 ° $\mathbf{\Upsilon}$	
	1922 Oct 10 22:33	0°⊀			1925 Apr 21 08:14	9° 8	
greatest brilliancy	1922 Oct 26 08:48	8° х 13'44	-4.9m				
retrograde	1922 Nov 04 15:21	9° ∡ 750'19		superior conj	1925 Apr 24 01:11	3° 8 20'43	
evening set	1922 Nov 19 09:05	5° ∡ 36'32		minimum elong	1925 Apr 24 11:06	3° 8 51'19	
inferior conj	1922 Nov 25 05:57	2°×11'35		max. Earth dist.	1925 Apr 26 20:05		1.72981 AU
minimum elong	1922 Nov 25 10:54	2° 🗷 04'04		Ā	1925 May 15 16:04	0°II	
min. Earth dist.	1922 Nov 25 15:45		0.26571 AU	asc. node	1925 May 20 14:51	6° Ⅱ 05'18	
	1922 Nov 28 21:47	30°RM		evening rise	1925 May 31 14:40	19° Ⅱ 35'44	
morning rise	1922 Dec 01 12:10	28°M32'54			1925 Jun 09 02:14	0° ©	
asc. node	1922 Dec 03 19:28	27°M23'41			1925 Jul 03 14:31	0° Ω	
direct	1922 Dec 15 17:08	24°M30'20			1925 Jul 28 05:25	0° т р	

	1925 Aug 22 00:28	0∘ ⊽			1928 Apr 11 13:35	0°Υ	
desc. node	1925 Aug 22 00:28 1925 Sep 09 03:59	0 = 21° £ 45'30			1928 May 06 00:03	0°8	
dese. Hode	1925 Sep 09 03:39 1925 Sep 16 02:05	0°M		morning set	1928 May 25 23:20	24° 8 29'55	
	1925 Oct 11 14:10	0°×7		morning sec	1928 May 30 11:00	0°Ⅱ	
	1925 Nov 06 22:34	0° ठ		asc. node	1928 Jun 17 02:37	21° I I39'20	
evening max el	1925 Nov 28 00:19	22° ろ 28'58	47°17'44	use. noue	1928 Jun 23 21:42	0.8e	
e venning man er	1925 Dec 05 15:09	0° ≈	., ., .,	max. Earth dist.	1928 Jun 30 07:54	7° 9 53'34	1.73577 AU
asc. node	1925 Dec 31 07:26	20° ≈ 32'10			-,	,	
greatest brilliancy	1926 Jan 07 13:17	24° ≈ 01'26	-4.9m	superior conj	1928 Jul 01 15:31	9° © 30'42	0°33'39
retrograde	1926 Jan 17 22:10	26°≈04'36		minimum elong	1928 Jul 01 09:10	9° © 11'10	0°33'22
evening set	1926 Feb 03 10:55	20° ≈ 39'22		6	1928 Jul 18 07:16	$0^{\circ}\Omega$	
min. Earth dist.	1926 Feb 06 17:30	18° ≈ 39'48	0.27146 AU	evening rise	1928 Aug 06 11:00	23° Ω 36′12	
inferior conj	1926 Feb 07 15:08	18° ≈ 06'12	7°57'31	•	1928 Aug 11 15:29	o°mp	
minimum elong	1926 Feb 07 06:43	18° ≈ 19'17	7°56'19		1928 Sep 04 23:05	0∘ ⊽	
morning rise	1926 Feb 11 02:53	15° ≈ 58'24			1928 Sep 29 07:18	0° M	
direct	1926 Feb 28 04:47	10° ≈ 20'01		desc. node	1928 Oct 06 16:01	9° ™ 03'29	
greatest brilliancy	1926 Mar 09 03:01	11° ≈ 50'50	-4.9m		1928 Oct 23 17:12	0° ∡ ¹	
	1926 Apr 06 03:59	0°) €			1928 Nov 17 06:09	0°ಕ	
morning max el	1926 Apr 18 19:38	11°)(44'30	46°16'02		1928 Dec 12 01:25	0° ≈	
desc. node	1926 Apr 21 20:48	14°) (44′52			1929 Jan 06 12:01	0°) €	
	1926 May 06 15:13	0° Y		asc. node	1929 Jan 27 19:10	23°) € 50′25	
	1926 Jun 02 19:59	0°8			1929 Feb 02 14:34	0° Y	
	1926 Jun 28 21:04	$\Pi^{\circ}0$		evening max el	1929 Feb 07 18:12	5° Ƴ 17'47	46°47'55
	1926 Jul 24 06:42	0 \circ			1929 Mar 08 07:29	0°8	
asc. node	1926 Aug 13 00:11	23° © 42'53		greatest brilliancy	1929 Mar 19 14:09	5° 8 57'48	-4.8m
	1926 Aug 18 04:35	$0^{\circ}\Omega$		retrograde	1929 Mar 30 03:03	8° 8 02'37	
	1926 Sep 11 16:37	0° m)		evening set	1929 Apr 15 19:42	2° 8 38'00	
	1926 Oct 05 21:07	0∘ ত		inferior conj	1929 Apr 20 09:25	29° Y ′48'24	6°13'40
morning set	1926 Oct 13 10:37	9° ഫ 26'21		minimum elong	1929 Apr 20 19:16	29° Y 32'51	6°11'37
	1926 Oct 29 20:50	0° M			1929 Apr 20 02:05	30° ŖƳ	
max. Earth dist.	1926 Nov 20 05:27	26°M49'08	1.71249 AU	min. Earth dist.	1929 Apr 20 08:46	29° Y '49'26	0.28489 AU
				morning rise	1929 Apr 25 19:06	26° Ƴ 30'11	
superior conj	1926 Nov 21 12:27	28°M26'31	0°26'03	direct	1929 May 11 15:01	21° Y 38'50	
minimum elong	1926 Nov 21 18:49	28°M46'32	0°25'45	desc. node	1929 May 19 08:31	22° Y 44'56	
	1926 Nov 22 18:12	0°⊀		greatest brilliancy	1929 May 21 11:08	23° Y ′24'06	-4.7m
desc. node	1926 Dec 02 13:43	12° ∡ °20′16			1929 Jun 03 09:47	0°B	
	1926 Dec 16 14:48	0°ಕ		morning max el	1929 Jun 29 09:45	21° 8 28'57	45°44'39
evening rise	1927 Jan 01 18:08	20° る 17'02			1929 Jul 08 02:00	Π $\circ 0$	
	1927 Jan 09 11:48	0° ≈			1929 Aug 05 05:39	0 \circ	
	1927 Feb 02 10:33	0° ∀			1929 Aug 31 11:24	0 $^{\circ}$ Ω	
	1927 Feb 26 13:16	0° Υ		asc. node	1929 Sep 09 12:10	10° Ω 38′27	
	1927 Mar 22 22:56	0°8			1929 Sep 25 16:13	0° m)	
asc. node	1927 Mar 25 17:04	3° 8 21'25			1929 Oct 20 05:12	0∘ ত	
	1927 Apr 16 19:25	Π °0			1929 Nov 13 08:35	0°M	
	1927 May 12 08:33	0			1929 Dec 07 07:03	0° ∡ ¹	
	1927 Jun 08 02:51	0 \circ Ω		morning set	1929 Dec 26 22:52	24° ⋌ ¹42'47	
evening max el	1927 Jul 02 21:33	25° Ω 25′18	45°27'02	desc. node	1929 Dec 30 01:27	28° ∡ ³37'21	
	1927 Jul 07 18:54	0° m)			1929 Dec 31 03:44	0°ප	
desc. node	1927 Jul 15 06:17	6° Mp 34'58			1930 Jan 24 00:22	0° ≈	
greatest brilliancy	1927 Aug 10 20:28	23° Tp 19'42	-4.7m				
retrograde	1927 Aug 20 11:42	24° TD 59'46		superior conj	1930 Feb 06 17:39	17°≈13'48	
evening set	1927 Sep 07 13:07	18° m 58'14		minimum elong	1930 Feb 06 07:37	16° ≈ 42'18	
inferior conj	1927 Sep 10 17:51	17° Mp 00'51		max. Earth dist.	1930 Feb 09 22:10		1.71420 AU
minimum elong	1927 Sep 10 17:49	17° Mp 00'55	8°43'03		1930 Feb 16 22:11	0°) €	
min. Earth dist.	1927 Sep 11 08:56	16° Tp 37'28	0.28396 AU		1930 Mar 12 22:33	0°Υ 5° 0 0 4011 4	
morning rise	1927 Sep 13 22:18	15° Mp 03'23		evening rise	1930 Mar 19 05:08	7° Υ 48'14	
direct	1927 Oct 02 02:50	8° Mp 51'24	4 9	1	1930 Apr 06 02:57	0° 8	
greatest brilliancy	1927 Oct 13 03:32	11° Mp 05'24	-4.8m	asc. node	1930 Apr 22 05:03	19° ႘ 48'33	
asc. node	1927 Nov 05 09:42	26° Mp 20'22			1930 Apr 30 12:37	0° ∏	
	1927 Nov 09 13:26	0° <u>Ω</u>	46040102		1930 May 25 04:36	0° ⊙	
morning max el	1927 Nov 21 11:45	11° Ω 28'57	46°42'23		1930 Jun 19 04:39	0° N	
	1927 Dec 08 21:26	0°M. 0°. ⊼			1930 Jul 14 16:34	0° m)	
	1928 Jan 04 00:06	0°⋜		desc nodo	1930 Aug 10 00:54	0° Ω 1° Ω 5//12	
	1928 Jan 29 01:13	0°≈		desc. node	1930 Aug 11 18:05	1° £ 54'12 0° M	
daga rada	1928 Feb 22 16:15	0° ≈ 2° ≈ 47'45		avanina ma1	1930 Sep 07 04:05	0°11น 6°11น15'07	16021151
desc. node	1928 Feb 24 23:04 1928 Mar 18 03:25	2°≈47'45 0°) €		evening max el	1930 Sep 13 11:50 1930 Oct 12 02:45	6°11⊾15′07 0° √ 7	46°21'51
	1720 IVIAI 10 US.23	υ Λ			1930 OCT 12 02.43	υ χ .	

	1000 0 . 00 01 10	50 74645	4.0		1000) (07 10 50	0000	
greatest brilliancy	1930 Oct 23 21:10	5° ₹ 146'45	-4.9m		1933 Mar 27 13:58	0° Υ	
retrograde	1930 Nov 02 03:50	7° ≯ 23'16			1933 Apr 20 19:00	0°B	
evening set	1930 Nov 16 23:23	3° ₹ 06'14					
	1930 Nov 22 07:44	30°RM		superior conj	1933 Apr 21 16:20	1° 8 05'56	-1°00'18
inferior conj	1930 Nov 22 18:16	29°M44'03	-2°35'22	minimum elong	1933 Apr 22 02:21	1° 8 36'53	0°59'57
minimum elong	1930 Nov 23 00:02	29°M35'18	2°33'34	max. Earth dist.	1933 Apr 24 16:17	4° 8 48'14	1.72935 AU
min. Earth dist.	1930 Nov 23 05:18	29° ™ 27'19	0.26613 AU		1933 May 15 02:47	Π°	
morning rise	1930 Nov 29 00:08	26°M06'09		asc. node	1933 May 19 16:48	5° Ⅱ 38′20	
asc. node	1930 Dec 02 21:32	24°M14'44		evening rise	1933 May 29 08:12	17° Ⅱ 29'13	
direct	1930 Dec 13 06:23	22°M01'58		Č	1933 Jun 08 13:01	0ංම	
greatest brilliancy	1930 Dec 23 21:57	24°M11'05	-4 9m		1933 Jul 03 01:29	0°Ω	
greatest orimaney	1931 Jan 03 20:03	0° √	1.7111		1933 Jul 27 16:45	0° m)	
morning max el	1931 Feb 01 22:10	0 ≯ 25° ₹ 17'24	46°55'17		1933 Aug 21 12:23	0∘ ت الألا	
morning max er			40 33 17	1 1	•		
	1931 Feb 06 12:24	0° る		desc. node	1933 Sep 08 06:09	21° △ 14'42	
	1931 Mar 05 21:46	0° ≈			1933 Sep 15 14:54	0° M ₊	
desc. node	1931 Mar 24 11:09	21°≈24'46			1933 Oct 11 04:32	0° ∡ ¹	
	1931 Mar 31 19:04	0° ∀			1933 Nov 06 16:02	0°ಕ	
	1931 Apr 26 02:10	0 ° Υ		evening max el	1933 Nov 25 15:04	20° る 07'24	47°16'58
	1931 May 21 02:38	$8^{\circ 0}$			1933 Dec 05 18:00	0° ≈	
	1931 Jun 14 23:04	Π $^{\circ}0$		asc. node	1933 Dec 30 09:23	18° ≈ 57'20	
	1931 Jul 09 15:35	0 \circ \odot		greatest brilliancy	1934 Jan 05 03:30	21° ≈ 36′27	-4.9m
asc. node	1931 Jul 15 14:25	7° 5 016'03		retrograde	1934 Jan 15 11:45	23° ≈ 38'34	
morning set	1931 Aug 02 15:40	29° © 23'39		evening set	1934 Jan 31 20:24	18° ≈ 20'09	
S	1931 Aug 03 03:29	$0^{\circ}\Omega$		min. Earth dist.	1934 Feb 04 06:45	16° ≈ 15′00	0.27091 AU
	1931 Aug 27 10:42	0° mp		inferior conj	1934 Feb 05 04:23	15° ≈ 41'22	7°46'55
max. Earth dist.	1931 Sep 04 20:54	•	1.72627 AU	minimum elong	1934 Feb 04 19:27	15°≈55'15	7°45'34
max. Lattii dist.	1931 Sep 04 20.34	10 11/2049	1.72027 AU	- C	1934 Feb 08 18:54	13°≈29'21	7 43 34
	1021 0 00 04 11	1.40 m- 2.210.2	1024140	morning rise			
superior conj	1931 Sep 08 04:11	14° mp 33'02		direct	1934 Feb 25 17:42	7°≈56'15	4.0
minimum elong	1931 Sep 08 03:33	14° mp 31'04	1°24'48	greatest brilliancy	1934 Mar 06 16:07	9° ≈ 27'00	-4.9m
	1931 Sep 20 14:15	0∘ ⊽			1934 Apr 06 09:22	0° ∀	
	1931 Oct 14 15:45	0°M₊		morning max el	1934 Apr 16 08:33	9° ∺ 22'33	46°17'29
evening rise	1931 Oct 15 20:13	1°M28'53		desc. node	1934 Apr 20 22:49	13° ¥ 56′00	
desc. node	1931 Nov 04 03:57	25° ™ 36′00			1934 May 06 08:54	0 ° Υ	
	1931 Nov 07 16:32	0° ∡ ¹			1934 Jun 02 10:11	$_{0\circ}$ 8	
	1931 Dec 01 17:29	0°ප			1934 Jun 28 09:38	Π° 0	
	1931 Dec 25 19:44	0° ≈			1934 Jul 23 18:21	0ංම	
	1932 Jan 19 01:51	0° ∀		asc. node	1934 Aug 12 02:18	23° © 15'11	
	1932 Feb 12 16:58	0°Υ			1934 Aug 17 15:45	$0^{\circ}\Omega$	
asc. node	1932 Feb 25 07:10	15° Υ 02'01			1934 Sep 11 03:32	0° m)	
asc. nouc	1932 Mar 09 02:07	0°8			1934 Oct 05 07:56	0∘ ⊽	
		0°II		morning set		0 = 7° ჲ 09'08	
	1932 Apr 05 00:19		450 4011 4	morning set	1934 Oct 11 01:29		
evening max el	1932 Apr 19 19:45	15° Ⅱ 07'40	45°42'14		1934 Oct 29 07:37	0°M,	
	1932 May 06 09:04	0∘ ©		max. Earth dist.	1934 Nov 17 11:08	24°M02'20	1.71276 AU
greatest brilliancy	1932 May 27 15:48	13° © 14'00	-4.7m				
retrograde	1932 Jun 07 17:35	15° © 26'13		superior conj	1934 Nov 19 00:19	25°M59'08	0°29'39
desc. node	1932 Jun 15 20:28	14° © 07'15		minimum elong	1934 Nov 19 07:25	26°M21'26	0°29'19
evening set	1932 Jun 22 20:06	11° © 00'49			1934 Nov 22 04:59	0° ∡ ¹	
inferior conj	1932 Jun 29 04:39	7° © 12'10	-3°04'29	desc. node	1934 Dec 01 15:42	11° ∡ ′52′27	
minimum elong	1932 Jun 28 22:13	7° 5 22'13	3°02'43		1934 Dec 16 01:39	ರ°0	
min. Earth dist.	1932 Jun 29 01:55	7° © 16'27	0.28987 AU	evening rise	1934 Dec 30 04:30	17° る 44'34	
morning rise	1932 Jul 05 00:27	3°541'24		Č	1935 Jan 08 22:43	0° ≈	
8	1932 Jul 13 10:33	30°R∏			1935 Feb 01 21:36	0° \	
direct	1932 Jul 20 20:22	28° ∏ 54'48			1935 Feb 26 00:29	0° Υ	
direct	1932 Jul 28 12:35	0°95			1935 Mar 22 10:29	0°8	
			4.7	4			
greatest brilliancy	1932 Jul 31 05:30	0°951'21	-4.7m	asc. node	1935 Mar 24 19:09	2° 8 52'26	
morning max el	1932 Sep 07 22:35	29° © 08'39	45°58'20		1935 Apr 16 07:37	0°II	
_	1932 Sep 08 19:45	0° N			1935 May 11 22:01	0°©	
asc. node	1932 Oct 07 00:02	29° Ω 44'00			1935 Jun 07 19:11	0 ° Ω	
	1932 Oct 07 05:46	0° ™		evening max el	1935 Jun 30 11:13	23° Ω 09′22	45°26'13
	1932 Nov 02 04:01	0。 亚			1935 Jul 07 20:33	0° ™	
	1932 Nov 27 00:06	0° M.		desc. node	1935 Jul 14 08:20	5° Mp 35'26	
	1932 Dec 21 07:43	0°⊀		greatest brilliancy	1935 Aug 08 09:56	21°M)05'06	-4.7m
	1933 Jan 14 09:56	8°0		retrograde	1935 Aug 18 01:41	22° m/46'09	
desc. node	1933 Jan 26 13:18	15° る 09'31		evening set	1935 Sep 05 02:44	16° m) 45'40	
	1933 Feb 07 10:30	0° ≈		inferior conj	1935 Sep 08 08:48	14° m) 46'25	-8°42'08
	1933 Mar 03 11:24	0° ∀		minimum elong	1935 Sep 08 07:55	14° Mp 47'47	8°42'07
morning set	1933 Mar 13 19:34	12°) 52'49		min. Earth dist.	1935 Sep 08 07.33 1935 Sep 08 23:27	14 m/4/4/ 14°m/23'43	0.28448 AU
morning set	1733 IVIAI 13 17.34	12 N 3449		min. Latui uist.	1733 Sep 06 23.21	17 IJ 43	0.20 11 0 AU

morning rise	1935 Sep 11 12:53	12° m 49'30		evening rise	1938 Mar 16 17:43	5° Ƴ 24'41	
direct	1935 Sep 29 17:46	6°₩35'59			1938 Apr 05 13:46	0° ႘	
greatest brilliancy	1935 Oct 10 19:28	8° m 50'29	-4.8m	asc. node	1938 Apr 21 07:00	19° 8 21'08	
asc. node	1935 Nov 04 11:41	25° m 18'21			1938 Apr 29 23:35	$\Pi^{\circ}0$	
	1935 Nov 09 16:34	0∘ ⊽			1938 May 24 15:56	0°ಅ	
morning max el	1935 Nov 19 01:41	9° ≏ 07'24	46°41'17		1938 Jun 18 16:37	$0^{\circ}\Omega$	
	1935 Dec 08 14:36	0°M			1938 Jul 14 05:44	0° m)	
	1936 Jan 03 14:16	0° ⊼ 7			1938 Aug 09 16:26	0∘ ⊽	
	1936 Jan 28 14:00	∞ੇਂ		desc. node	1938 Aug 10 20:15	° - 1° - 16'44	
	1936 Feb 22 04:14	0°≈		dese. Hode	1938 Sep 07 01:36	0°M	
desc. node		0 ∞ 2°≈17'54		arranina may al	•	3°M56'03	46°19'25
desc. node	1936 Feb 24 01:15	2 ≈1734 0°) (evening max el	1938 Sep 11 01:53		40 1923
	1936 Mar 17 14:53			4 41 211	1938 Oct 13 18:49	0° ⊀̄¹	4.0
	1936 Apr 11 00:41	0° Υ		greatest brilliancy	1938 Oct 21 09:12	3° ∡ 19'59	-4.9m
	1936 May 05 10:53	0° 8		retrograde	1938 Oct 30 16:22	4° ∡ ¹56'24 _	
morning set	1936 May 23 16:42	22° 8 23'09		evening set	1938 Nov 14 13:51	0° ∡ ³36′14	
	1936 May 29 21:39	Π °0			1938 Nov 15 16:07	30°₽ M	
asc. node	1936 Jun 16 04:38	21° Ⅱ 12'59		inferior conj	1938 Nov 20 06:30	27° M 16'46	-2°58'24
	1936 Jun 23 08:16	0 \circ		minimum elong	1938 Nov 20 13:02	27° M 06'51	2°56'24
max. Earth dist.	1936 Jun 28 03:57	5° © 55'16	1.73586 AU	min. Earth dist.	1938 Nov 20 18:30	26°M58'33	0.26655 AU
				morning rise	1938 Nov 26 11:45	23°M39'52	
superior conj	1936 Jun 29 09:43	7° 5 26'42	0°30'44	asc. node	1938 Dec 01 23:33	21°M11'03	
minimum elong	1936 Jun 29 03:49	7° © 08'35	0°30'28	direct	1938 Dec 10 19:52	19° M 34'04	
· ·	1936 Jul 17 17:51	$0^{\circ}\Omega$		greatest brilliancy	1938 Dec 21 11:34	21° M 43'49	-4.9m
evening rise	1936 Aug 04 05:23	21° Ω 32'07		8	1939 Jan 04 21:48	0° ∡ 7	
e reming hise	1936 Aug 11 02:11	0° m)		morning max el	1939 Jan 30 12:43	22° ₹ '54'55	46°55'51
	1936 Sep 04 10:02	0∘ ⊽		monning man vi	1939 Feb 06 09:20	0°る	.0 0001
	1936 Sep 28 18:36	0° ™			1939 Mar 05 13:29	0° ≈	
desc. node	1936 Oct 05 18:02	8°M34'32		desc. node	1939 Mar 03 13:29 1939 Mar 23 13:06	0 ∞ 20°≈49'24	
desc. node		0° √		desc. Hode		20 ≈ 4924 0°) (
	1936 Oct 23 05:00				1939 Mar 31 08:34		
	1936 Nov 16 18:36	್ತಿ			1939 Apr 25 14:28	0° Υ	
	1936 Dec 11 14:51	0° ≈			1939 May 20 14:13	0°8	
	1937 Jan 06 03:18	0° ∀			1939 Jun 14 10:11	0°П	
asc. node	1937 Jan 26 21:21	23°) €06'40			1939 Jul 09 02:25	0 \circ \odot	
	1937 Feb 02 10:39	0° Υ		asc. node	1939 Jul 14 16:32	6° ॐ 49'30	
evening max el	1937 Feb 05 08:16	2° Y 57'50	46°50'14	morning set	1939 Jul 31 09:31	27° © 18'07	
	1937 Mar 09 13:19	9° 8			1939 Aug 02 14:11	$0 {\circ} \Omega$	
greatest brilliancy	1937 Mar 17 06:25	3° 8 44'50	-4.8m		1939 Aug 26 21:24	0° m)	
retrograde	1937 Mar 27 19:06	5° 8 50'01		max. Earth dist.	1939 Sep 02 12:55	8° Mp 14'20	1.72677 AU
evening set	1937 Apr 13 14:21	0° 8 20'50					
	1937 Apr 14 04:19	30° ŖƳ		superior conj	1939 Sep 05 21:14	12° m) 23'34	1°24'36
inferior conj	1937 Apr 18 01:13				1,5,5 Sep 00 21.11.	12 III 2337	1 2 7 3 0
minimum elong	1931 Apr 10 01.13	27° Y °35′45	6°27'56	minimum elong	•	12°M) 19'22	
_	*	27° Y 35'45 27° Y 20'14		minimum elong	1939 Sep 05 19:52		
mın. Earth dıst.	1937 Apr 18 11:03	27° Y ′20'14	6°25'58	_	1939 Sep 05 19:52 1939 Sep 20 01:02	12° Mp 19′22 0° <u>Ω</u>	
min. Earth dist.	1937 Apr 18 11:03 1937 Apr 18 00:17	27° Y 20'14 27° Y 37'14		minimum elong evening rise	1939 Sep 05 19:52 1939 Sep 20 01:02 1939 Oct 13 10:09	12° № 19'22 0° <u>a</u> 29° <u>a</u> 08'26	
morning rise	1937 Apr 18 11:03 1937 Apr 18 00:17 1937 Apr 23 07:59	27° Y 20'14 27° Y 37'14 24° Y 21'54	6°25'58	evening rise	1939 Sep 05 19:52 1939 Sep 20 01:02 1939 Oct 13 10:09 1939 Oct 14 02:41	12° m 19'22 0° Ω 29° Ω08'26 0° M	
morning rise direct	1937 Apr 18 11:03 1937 Apr 18 00:17 1937 Apr 23 07:59 1937 May 09 05:56	27° Y 20'14 27° Y 37'14 24° Y 21'54 19° Y 26'22	6°25'58	_	1939 Sep 05 19:52 1939 Sep 20 01:02 1939 Oct 13 10:09 1939 Oct 14 02:41 1939 Nov 03 05:53	12° M 19'22 0° Ω 29° Ω08'26 0° M 25° M 07'24	
morning rise direct desc. node	1937 Apr 18 11:03 1937 Apr 18 00:17 1937 Apr 23 07:59 1937 May 09 05:56 1937 May 18 10:31	27°Y20'14 27°Y37'14 24°Y21'54 19°Y26'22 20°Y58'54	6°25'58 0.28465 AU	evening rise	1939 Sep 05 19:52 1939 Sep 20 01:02 1939 Oct 13 10:09 1939 Oct 14 02:41 1939 Nov 03 05:53 1939 Nov 07 03:40	12° m 19'22 0° Ω 29° Ω08'26 0° m 25° m07'24 0° ✓	
morning rise direct	1937 Apr 18 11:03 1937 Apr 18 00:17 1937 Apr 23 07:59 1937 May 09 05:56 1937 May 18 10:31 1937 May 19 02:05	27° Y 20'14 27° Y 37'14 24° Y 21'54 19° Y 26'22 20° Y 58'54 21° Y 11'50	6°25'58 0.28465 AU	evening rise	1939 Sep 05 19:52 1939 Sep 20 01:02 1939 Oct 13 10:09 1939 Oct 14 02:41 1939 Nov 03 05:53 1939 Nov 07 03:40 1939 Dec 01 04:52	12° M 19'22 0° Ω 29° Ω08'26 0° M 25° M 07'24 0° ⊀ 0° ጜ	
morning rise direct desc. node greatest brilliancy	1937 Apr 18 11:03 1937 Apr 18 00:17 1937 Apr 23 07:59 1937 May 09 05:56 1937 May 18 10:31 1937 May 19 02:05 1937 Jun 04 06:41	27°Y20'14 27°Y37'14 24°Y21'54 19°Y26'22 20°Y58'54 21°Y11'50 0°8	6°25'58 0.28465 AU -4.7m	evening rise	1939 Sep 05 19:52 1939 Sep 20 01:02 1939 Oct 13 10:09 1939 Oct 14 02:41 1939 Nov 03 05:53 1939 Nov 07 03:40 1939 Dec 01 04:52 1939 Dec 25 07:25	12° M 19'22 0° Ω 29° Ω08'26 0° M 25° M 07'24 0° ⊀ 0° ♂ 0° ♂	
morning rise direct desc. node	1937 Apr 18 11:03 1937 Apr 18 00:17 1937 Apr 23 07:59 1937 May 09 05:56 1937 May 18 10:31 1937 May 19 02:05 1937 Jun 04 06:41 1937 Jun 27 01:52	27°Y20'14 27°Y37'14 24°Y21'54 19°Y26'22 20°Y58'54 21°Y11'50 0°8 19°819'29	6°25'58 0.28465 AU -4.7m	evening rise	1939 Sep 05 19:52 1939 Sep 20 01:02 1939 Oct 13 10:09 1939 Oct 14 02:41 1939 Nov 03 05:53 1939 Nov 07 03:40 1939 Dec 01 04:52 1939 Dec 25 07:25 1940 Jan 18 14:00	12° M 19'22 0° <u>a</u> 29° <u>a</u> 08'26 0° M 25° M 07'24 0° s s 0° s s 0° s s	
morning rise direct desc. node greatest brilliancy	1937 Apr 18 11:03 1937 Apr 18 00:17 1937 Apr 23 07:59 1937 May 09 05:56 1937 May 18 10:31 1937 May 19 02:05 1937 Jun 04 06:41 1937 Jun 27 01:52 1937 Jul 07 21:12	27°Υ20'14 27°Υ37'14 24°Υ21'54 19°Υ26'22 20°Υ58'54 21°Υ11'50 0°႘ 19°႘19'29 0°Π	6°25'58 0.28465 AU -4.7m	evening rise desc. node	1939 Sep 05 19:52 1939 Sep 20 01:02 1939 Oct 13 10:09 1939 Oct 14 02:41 1939 Nov 03 05:53 1939 Nov 07 03:40 1939 Dec 01 04:52 1939 Dec 25 07:25 1940 Jan 18 14:00 1940 Feb 12 05:51	12° 1 19'22 0° <u>a</u> 29° <u>a</u> 08'26 0° 1 . 25° 1 107'24 0° ズ 0° 云 0° ★ 0° 升 0° Υ	
morning rise direct desc. node greatest brilliancy	1937 Apr 18 11:03 1937 Apr 18 00:17 1937 Apr 23 07:59 1937 May 09 05:56 1937 May 18 10:31 1937 May 19 02:05 1937 Jun 04 06:41 1937 Jun 27 01:52 1937 Jul 07 21:12 1937 Aug 04 20:14	27°Y20'14 27°Y37'14 24°Y21'54 19°Y26'22 20°Y58'54 21°Y11'50 0°8 19°819'29 0°II 0°S	6°25'58 0.28465 AU -4.7m	evening rise	1939 Sep 05 19:52 1939 Sep 20 01:02 1939 Oct 13 10:09 1939 Oct 14 02:41 1939 Nov 03 05:53 1939 Nov 07 03:40 1939 Dec 01 04:52 1939 Dec 25 07:25 1940 Jan 18 14:00 1940 Feb 12 05:51 1940 Feb 24 09:13	12° M 19'22 0° <u>a</u> 29° <u>a</u> 08'26 0° M 25° M 07'24 0° ズ 0° ズ 0° ズ 0° ズ 0° ズ 1° ℃	
morning rise direct desc. node greatest brilliancy morning max el	1937 Apr 18 11:03 1937 Apr 18 00:17 1937 Apr 23 07:59 1937 May 09 05:56 1937 May 18 10:31 1937 May 19 02:05 1937 Jun 04 06:41 1937 Jun 27 01:52 1937 Jul 07 21:12 1937 Aug 04 20:14 1937 Aug 31 00:07	27°Y20'14 27°Y37'14 24°Y21'54 19°Y26'22 20°Y58'54 21°Y11'50 0°8 19°819'29 0°II 0°\$ 0°\$	6°25'58 0.28465 AU -4.7m	evening rise desc. node	1939 Sep 05 19:52 1939 Sep 20 01:02 1939 Oct 13 10:09 1939 Oct 14 02:41 1939 Nov 03 05:53 1939 Nov 07 03:40 1939 Dec 01 04:52 1939 Dec 25 07:25 1940 Jan 18 14:00 1940 Feb 12 05:51 1940 Feb 24 09:13 1940 Mar 08 16:25	12° m 19'22 0° <u>a</u> 29° <u>a</u> 08'26 0° m 25° m 07'24 0° ズ 0° ズ 0° ズ 0° ズ 0° ズ 0° ズ 0° ズ	
morning rise direct desc. node greatest brilliancy	1937 Apr 18 11:03 1937 Apr 18 00:17 1937 Apr 23 07:59 1937 May 09 05:56 1937 May 18 10:31 1937 May 19 02:05 1937 Jun 04 06:41 1937 Jun 27 01:52 1937 Jul 07 21:12 1937 Aug 04 20:14 1937 Aug 31 00:07 1937 Sep 08 14:15	27°Y20'14 27°Y37'14 24°Y21'54 19°Y26'22 20°Y58'54 21°Y11'50 0°B 19°B19'29 0°II 0°S 0°A 10°A08'02	6°25'58 0.28465 AU -4.7m	evening rise desc. node	1939 Sep 05 19:52 1939 Sep 20 01:02 1939 Oct 13 10:09 1939 Oct 14 02:41 1939 Nov 03 05:53 1939 Nov 07 03:40 1939 Dec 01 04:52 1939 Dec 25 07:25 1940 Jan 18 14:00 1940 Feb 12 05:51 1940 Feb 24 09:13 1940 Mar 08 16:25 1940 Apr 04 18:10	12° M 19'22 0° <u>a</u> 29° <u>a</u> 08'26 0° M 25° M 07'24 0° ズ 0° ズ 0° ※ 0° ※ 0° ¥ 0° Y 14° Y 28'25 0° B	1°24'36
morning rise direct desc. node greatest brilliancy morning max el	1937 Apr 18 11:03 1937 Apr 18 00:17 1937 Apr 23 07:59 1937 May 09 05:56 1937 May 18 10:31 1937 May 19 02:05 1937 Jun 04 06:41 1937 Jun 27 01:52 1937 Jul 07 21:12 1937 Aug 04 20:14 1937 Aug 31 00:07	27°Y20'14 27°Y37'14 24°Y21'54 19°Y26'22 20°Y58'54 21°Y11'50 0°8 19°819'29 0°II 0°\$ 0°\$ 10°\$08'02	6°25'58 0.28465 AU -4.7m	evening rise desc. node	1939 Sep 05 19:52 1939 Sep 20 01:02 1939 Oct 13 10:09 1939 Oct 14 02:41 1939 Nov 03 05:53 1939 Nov 07 03:40 1939 Dec 01 04:52 1939 Dec 25 07:25 1940 Jan 18 14:00 1940 Feb 12 05:51 1940 Feb 24 09:13 1940 Mar 08 16:25 1940 Apr 04 18:10 1940 Apr 17 12:21	12° m 19'22 0° <u>a</u> 29° <u>a</u> 08'26 0° m 25° m 07'24 0° ズ 0° ズ 0° ズ 0° ズ 0° ズ 0° ズ 0° ズ	1°24'36
morning rise direct desc. node greatest brilliancy morning max el	1937 Apr 18 11:03 1937 Apr 18 00:17 1937 Apr 23 07:59 1937 May 09 05:56 1937 May 18 10:31 1937 May 19 02:05 1937 Jun 04 06:41 1937 Jun 27 01:52 1937 Jul 07 21:12 1937 Aug 04 20:14 1937 Aug 31 00:07 1937 Sep 08 14:15	27°Y20'14 27°Y37'14 24°Y21'54 19°Y26'22 20°Y58'54 21°Y11'50 0°B 19°B19'29 0°II 0°S 0°A 10°A08'02	6°25'58 0.28465 AU -4.7m	evening rise desc. node	1939 Sep 05 19:52 1939 Sep 20 01:02 1939 Oct 13 10:09 1939 Oct 14 02:41 1939 Nov 03 05:53 1939 Nov 07 03:40 1939 Dec 01 04:52 1939 Dec 25 07:25 1940 Jan 18 14:00 1940 Feb 12 05:51 1940 Feb 24 09:13 1940 Mar 08 16:25 1940 Apr 04 18:10	12° M 19'22 0° <u>a</u> 29° <u>a</u> 08'26 0° M 25° M 07'24 0° ズ 0° ズ 0° ※ 0° ※ 0° ¥ 0° Y 14° Y 28'25 0° B	1°24'36
morning rise direct desc. node greatest brilliancy morning max el	1937 Apr 18 11:03 1937 Apr 18 00:17 1937 Apr 23 07:59 1937 May 09 05:56 1937 May 18 10:31 1937 May 19 02:05 1937 Jun 04 06:41 1937 Jun 27 01:52 1937 Jul 07 21:12 1937 Aug 04 20:14 1937 Aug 31 00:07 1937 Sep 08 14:15 1937 Sep 25 04:03	27°Y20'14 27°Y37'14 24°Y21'54 19°Y26'22 20°Y58'54 21°Y11'50 0°8 19°819'29 0°II 0°\$ 0°\$ 10°\$08'02	6°25'58 0.28465 AU -4.7m	evening rise desc. node	1939 Sep 05 19:52 1939 Sep 20 01:02 1939 Oct 13 10:09 1939 Oct 14 02:41 1939 Nov 03 05:53 1939 Nov 07 03:40 1939 Dec 01 04:52 1939 Dec 25 07:25 1940 Jan 18 14:00 1940 Feb 12 05:51 1940 Feb 24 09:13 1940 Mar 08 16:25 1940 Apr 04 18:10 1940 Apr 17 12:21	12° M 19'22 0° <u>a</u> 29° <u>a</u> 08'26 0° M 25° M 07'24 0° ズ 0° ズ 14° Y 28'25 0° 因 12° I 58'14	1°24'36 45°44'05
morning rise direct desc. node greatest brilliancy morning max el	1937 Apr 18 11:03 1937 Apr 18 00:17 1937 Apr 23 07:59 1937 May 09 05:56 1937 May 18 10:31 1937 May 19 02:05 1937 Jun 04 06:41 1937 Jun 27 01:52 1937 Aug 04 20:14 1937 Aug 31 00:07 1937 Sep 08 14:15 1937 Sep 25 04:03 1937 Oct 19 16:33	27°Y20'14 27°Y37'14 24°Y21'54 19°Y26'22 20°Y58'54 21°Y11'50 0°8 19°819'29 0°II 0°\$ 0°\$ 10°\$08'02 0°\$ 0°\$ 0°\$ 0°\$ 0°\$	6°25'58 0.28465 AU -4.7m	evening rise desc. node asc. node evening max el	1939 Sep 05 19:52 1939 Sep 20 01:02 1939 Oct 13 10:09 1939 Oct 14 02:41 1939 Nov 03 05:53 1939 Nov 07 03:40 1939 Dec 01 04:52 1939 Dec 25 07:25 1940 Jan 18 14:00 1940 Feb 12 05:51 1940 Feb 24 09:13 1940 Mar 08 16:25 1940 Apr 04 18:10 1940 Apr 17 12:21 1940 May 06 18:47	12° M 19'22 0° <u>a</u> 29° <u>a</u> 08'26 0° M 25° M 07'24 0° ズ 0° ズ 14° Y 28'25 0° Ŭ 0° Ⅱ 12° Ⅱ 58'14 0° ⑤	1°24'36 45°44'05
morning rise direct desc. node greatest brilliancy morning max el	1937 Apr 18 11:03 1937 Apr 18 00:17 1937 Apr 23 07:59 1937 May 09 05:56 1937 May 18 10:31 1937 May 19 02:05 1937 Jun 04 06:41 1937 Jun 27 01:52 1937 Jul 07 21:12 1937 Aug 04 20:14 1937 Aug 31 00:07 1937 Sep 08 14:15 1937 Sep 25 04:03 1937 Oct 19 16:33 1937 Nov 12 19:42	27°Y20'14 27°Y37'14 24°Y21'54 19°Y26'22 20°Y58'54 21°Y11'50 0°8 19°819'29 0°11 0°\$0 10°\$08'02 0°\$0 0°\$10 0°\$10 0°\$10 0°\$10 0°\$10 0°\$10 0°\$10 0°\$10 0°\$10 0°\$10 0°\$10	6°25'58 0.28465 AU -4.7m	evening rise desc. node asc. node evening max el greatest brilliancy	1939 Sep 05 19:52 1939 Sep 20 01:02 1939 Oct 13 10:09 1939 Oct 14 02:41 1939 Nov 03 05:53 1939 Nov 07 03:40 1939 Dec 01 04:52 1939 Dec 25 07:25 1940 Jan 18 14:00 1940 Feb 12 05:51 1940 Feb 24 09:13 1940 Mar 08 16:25 1940 Apr 04 18:10 1940 Apr 17 12:21 1940 May 06 18:47 1940 May 25 08:30	12°M19'22 0°亞 29°亞08'26 0°M 25°M07'24 0°ズ 0°ズ 0°※ 0°Y 14°Y28'25 0°U 12°U58'14 0°亞 11°©06'25	1°24'36 45°44'05
morning rise direct desc. node greatest brilliancy morning max el	1937 Apr 18 11:03 1937 Apr 18 00:17 1937 Apr 23 07:59 1937 May 09 05:56 1937 May 18 10:31 1937 May 19 02:05 1937 Jun 04 06:41 1937 Jun 27 01:52 1937 Jul 07 21:12 1937 Aug 04 20:14 1937 Aug 31 00:07 1937 Sep 08 14:15 1937 Sep 25 04:03 1937 Oct 19 16:33 1937 Nov 12 19:42 1937 Dec 06 18:06	27°Y20'14 27°Y37'14 24°Y21'54 19°Y26'22 20°Y58'54 21°Y11'50 0°℧ 19°℧19'29 0°玑 0°亟 0°矶 10°Ω08'02 0°™ 0°⊶ 0°™	6°25'58 0.28465 AU -4.7m	evening rise desc. node asc. node evening max el greatest brilliancy retrograde	1939 Sep 05 19:52 1939 Sep 20 01:02 1939 Oct 13 10:09 1939 Oct 14 02:41 1939 Nov 03 05:53 1939 Nov 07 03:40 1939 Dec 01 04:52 1939 Dec 25 07:25 1940 Jan 18 14:00 1940 Feb 12 05:51 1940 Feb 24 09:13 1940 Mar 08 16:25 1940 Apr 04 18:10 1940 Apr 17 12:21 1940 May 06 18:47 1940 May 25 08:30 1940 Jun 05 10:05	12°M19'22 0°亞 29°亞08'26 0°M 25°M07'24 0°ズ 0°芯 0°※ 0°光 0°Y 14°Y28'25 0°出 12°耳58'14 0°孁 11°⑤06'25 13°⑤18'16	1°24'36 45°44'05
morning rise direct desc. node greatest brilliancy morning max el asc. node	1937 Apr 18 11:03 1937 Apr 18 00:17 1937 Apr 23 07:59 1937 May 09 05:56 1937 May 18 10:31 1937 May 19 02:05 1937 Jun 04 06:41 1937 Jun 27 01:52 1937 Jul 07 21:12 1937 Aug 04 20:14 1937 Aug 31 00:07 1937 Sep 08 14:15 1937 Sep 25 04:03 1937 Oct 19 16:33 1937 Nov 12 19:42 1937 Dec 06 18:06 1937 Dec 24 08:52	27°Y20'14 27°Y37'14 24°Y21'54 19°Y26'22 20°Y58'54 21°Y11'50 0°℧ 19°℧19'29 0°爪 0°Ω 10°Ω08'02 0°ጥ 0°ጥ 0°™ 22°ズ08'44	6°25'58 0.28465 AU -4.7m	evening rise desc. node asc. node evening max el greatest brilliancy retrograde desc. node	1939 Sep 05 19:52 1939 Sep 20 01:02 1939 Oct 13 10:09 1939 Oct 14 02:41 1939 Nov 03 05:53 1939 Nov 07 03:40 1939 Dec 01 04:52 1939 Dec 25 07:25 1940 Jan 18 14:00 1940 Feb 12 05:51 1940 Mar 08 16:25 1940 Apr 04 18:10 1940 Apr 17 12:21 1940 May 06 18:47 1940 May 06 18:47 1940 May 25 08:30 1940 Jun 05 10:05 1940 Jun 14 22:29	12° M 19'22 0° ♀ 29° ♀08'26 0° M 25° M 07'24 0° ♂ 0° ♂ 0° ⇔ 0° ∀ 14° Y 28'25 0° ♥ 11° ♀06'25 13° ♀18'16 11° ♀30'22	1°24'36 45°44'05 -4.7m
morning rise direct desc. node greatest brilliancy morning max el asc. node	1937 Apr 18 11:03 1937 Apr 18 00:17 1937 Apr 23 07:59 1937 May 09 05:56 1937 May 18 10:31 1937 May 19 02:05 1937 Jun 04 06:41 1937 Jun 27 01:52 1937 Jul 07 21:12 1937 Aug 04 20:14 1937 Aug 31 00:07 1937 Sep 08 14:15 1937 Sep 25 04:03 1937 Oct 19 16:33 1937 Nov 12 19:42 1937 Dec 06 18:06 1937 Dec 24 08:52 1937 Dec 29 03:29	27°Y20'14 27°Y37'14 24°Y21'54 19°Y26'22 20°Y58'54 21°Y11'50 0°℧ 19°℧19'29 0°爪 0°Ω 10°Ω08'02 0°ጥ 0°ጥ 22°ズ08'44 28°ズ09'13	6°25'58 0.28465 AU -4.7m	evening rise desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set	1939 Sep 05 19:52 1939 Sep 20 01:02 1939 Oct 13 10:09 1939 Oct 14 02:41 1939 Nov 03 05:53 1939 Nov 07 03:40 1939 Dec 01 04:52 1939 Dec 25 07:25 1940 Jan 18 14:00 1940 Feb 12 05:51 1940 Feb 24 09:13 1940 Mar 08 16:25 1940 Apr 04 18:10 1940 Apr 17 12:21 1940 May 06 18:47 1940 May 06 18:47 1940 May 25 08:30 1940 Jun 05 10:05 1940 Jun 14 22:29 1940 Jun 20 12:02	12° M 19'22 0° ♀ 29° ♀08'26 0° M 25° M 07'24 0° ⊀ 0° ♂ 0° ★ 0° ϒ 14° Y 28'25 0° Ⅱ 12° Ⅱ 58'14 0° ♀ 11° ♀06'25 13° ♀18'16 11° ♀30'22 8° ♀54'08	1°24'36 45°44'05 -4.7m
morning rise direct desc. node greatest brilliancy morning max el asc. node	1937 Apr 18 11:03 1937 Apr 18 00:17 1937 Apr 23 07:59 1937 May 09 05:56 1937 May 18 10:31 1937 May 19 02:05 1937 Jun 04 06:41 1937 Jun 27 01:52 1937 Jul 07 21:12 1937 Aug 04 20:14 1937 Aug 31 00:07 1937 Sep 08 14:15 1937 Sep 25 04:03 1937 Oct 19 16:33 1937 Nov 12 19:42 1937 Dec 06 18:06 1937 Dec 24 08:52 1937 Dec 29 03:29 1937 Dec 30 14:42	27°Y20'14 27°Y37'14 24°Y21'54 19°Y26'22 20°Y58'54 21°Y11'50 0°8 19°819'29 0°II 0°© 0°I 10°I08'02 0°I 0°I 0°I 22°I08'44 28°I09'13 0°I	6°25'58 0.28465 AU -4.7m	evening rise desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set inferior conj	1939 Sep 05 19:52 1939 Sep 20 01:02 1939 Oct 13 10:09 1939 Oct 14 02:41 1939 Nov 03 05:53 1939 Nov 07 03:40 1939 Dec 01 04:52 1939 Dec 25 07:25 1940 Jan 18 14:00 1940 Feb 12 05:51 1940 Feb 24 09:13 1940 Mar 08 16:25 1940 Apr 04 18:10 1940 Apr 17 12:21 1940 May 06 18:47 1940 May 06 18:47 1940 May 25 08:30 1940 Jun 05 10:05 1940 Jun 14 22:29 1940 Jun 20 12:02 1940 Jun 26 21:13 1940 Jun 26 15:22	12° M 19'22 0° Ω 29° Ω 08'26 0° M 25° M 07'24 0° ¾ 0° ੴ 0° % 0° ¾ 14° Y 28'25 0° ੴ 0° II 12° II 58'14 0° © 11° © 30'22 8° © 54'08 5° © 04'11	1°24'36 45°44'05 -4.7m
morning rise direct desc. node greatest brilliancy morning max el asc. node morning set desc. node	1937 Apr 18 11:03 1937 Apr 18 00:17 1937 Apr 23 07:59 1937 May 09 05:56 1937 May 18 10:31 1937 May 19 02:05 1937 Jun 04 06:41 1937 Jun 27 01:52 1937 Jul 07 21:12 1937 Aug 04 20:14 1937 Aug 31 00:07 1937 Sep 08 14:15 1937 Sep 25 04:03 1937 Oct 19 16:33 1937 Nov 12 19:42 1937 Dec 06 18:06 1937 Dec 24 08:52 1937 Dec 29 03:29 1937 Dec 30 14:42 1938 Jan 23 11:16	27°Y20'14 27°Y37'14 24°Y21'54 19°Y26'22 20°Y58'54 21°Y11'50 0°8 19°819'29 0°II 0°© 0°I 10°I08'02 0°I 0°I 0°I 0°I 22°I 22°I 28'I 28'I 28'I 29'I 30'I 30'I 30'I 30'I 30'I 30'I 30'I 30	6°25'58 0.28465 AU -4.7m 45°45'01	evening rise desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set inferior conj minimum elong min. Earth dist.	1939 Sep 05 19:52 1939 Sep 20 01:02 1939 Oct 13 10:09 1939 Oct 14 02:41 1939 Nov 03 05:53 1939 Nov 07 03:40 1939 Dec 01 04:52 1939 Dec 25 07:25 1940 Jan 18 14:00 1940 Feb 12 05:51 1940 Feb 24 09:13 1940 Mar 08 16:25 1940 Apr 04 18:10 1940 Apr 17 12:21 1940 May 06 18:47 1940 May 25 08:30 1940 Jun 05 10:05 1940 Jun 14 22:29 1940 Jun 20 12:02 1940 Jun 26 15:22 1940 Jun 26 15:22	12° M 19'22 0° 9 29° 908'26 0° M 25° M 07'24 0° ¾ 0° ♂ 0° ₩ 0° ⅓ 0° ¥ 0° ¥ 14° ¥ 28'25 0° ¥ 0° ¶ 12° I 58'14 0° 9 11° 906'25 13° 918'16 11° 930'22 8° 954'08 5° 904'11 5° 913'21	1°24'36 45°44'05 -4.7m -2°46'02 2°44'24
morning rise direct desc. node greatest brilliancy morning max el asc. node morning set desc. node	1937 Apr 18 11:03 1937 Apr 18 00:17 1937 Apr 23 07:59 1937 May 09 05:56 1937 May 18 10:31 1937 May 19 02:05 1937 Jun 04 06:41 1937 Jun 27 01:52 1937 Jul 07 21:12 1937 Aug 04 20:14 1937 Aug 31 00:07 1937 Sep 08 14:15 1937 Sep 08 14:15 1937 Sep 25 04:03 1937 Oct 19 16:33 1937 Nov 12 19:42 1937 Dec 06 18:06 1937 Dec 24 08:52 1937 Dec 29 03:29 1937 Dec 30 14:42 1938 Jan 23 11:16	27°Y20'14 27°Y37'14 24°Y21'54 19°Y26'22 20°Y58'54 21°Y11'50 0°℧ 19°℧19'29 0°Ⅱ 0°亞 0°Ω 10°Ω08'02 0°啉 0°亞 0°™ 0°丞 22°ズ08'44 28°ズ09'13 0°℧ 0°∞ 14°≈41'48	6°25'58 0.28465 AU -4.7m 45°45'01	evening rise desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set inferior conj minimum elong	1939 Sep 05 19:52 1939 Sep 20 01:02 1939 Oct 13 10:09 1939 Oct 14 02:41 1939 Nov 03 05:53 1939 Nov 07 03:40 1939 Dec 01 04:52 1939 Dec 25 07:25 1940 Jan 18 14:00 1940 Feb 12 05:51 1940 Feb 24 09:13 1940 Mar 08 16:25 1940 Apr 04 18:10 1940 Apr 17 12:21 1940 May 06 18:47 1940 May 25 08:30 1940 Jun 05 10:05 1940 Jun 14 22:29 1940 Jun 20 12:02 1940 Jun 26 15:22 1940 Jun 26 18:22 1940 Jun 26 18:22 1940 Jun 26 18:22	12° m 19'22 0° Ω 29° Ω 08'26 0° m 25° m 07'24 0° ¾ 0° ♂ 0° ¾ 0° ⅓ 0° ¥ 0° ¥ 14° ¥ 28'25 0° ¥ 0° II 12° II 58'14 0° © 11° © 30'22 8° © 54'08 5° © 04'11 5° © 13'21 5° © 08'38 1° © 30'35	1°24'36 45°44'05 -4.7m -2°46'02 2°44'24
morning rise direct desc. node greatest brilliancy morning max el asc. node morning set desc. node superior conj minimum elong	1937 Apr 18 11:03 1937 Apr 18 00:17 1937 Apr 23 07:59 1937 May 09 05:56 1937 May 18 10:31 1937 May 19 02:05 1937 Jun 04 06:41 1937 Jun 27 01:52 1937 Jul 07 21:12 1937 Aug 04 20:14 1937 Aug 31 00:07 1937 Sep 08 14:15 1937 Sep 25 04:03 1937 Oct 19 16:33 1937 Nov 12 19:42 1937 Dec 06 18:06 1937 Dec 24 08:52 1937 Dec 29 03:29 1937 Dec 30 14:42 1938 Jan 23 11:16	27°Y20'14 27°Y37'14 24°Y21'54 19°Y26'22 20°Y58'54 21°Y11'50 0°℧ 19°℧19'29 0°Ⅲ 0°亞 0°№ 0°亞 0°№ 0°亞 0°™ 0°丞 22°ズ08'44 28°ズ09'13 0°उ 0°∞ 14°≈41'48 14°≈08'29	6°25'58 0.28465 AU -4.7m 45°45'01 -1°13'51 1°13'35	evening rise desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise	1939 Sep 05 19:52 1939 Sep 20 01:02 1939 Oct 13 10:09 1939 Oct 14 02:41 1939 Nov 03 05:53 1939 Nov 07 03:40 1939 Dec 01 04:52 1939 Dec 25 07:25 1940 Jan 18 14:00 1940 Feb 12 05:51 1940 Feb 24 09:13 1940 Mar 08 16:25 1940 Apr 04 18:10 1940 Apr 17 12:21 1940 May 06 18:47 1940 May 25 08:30 1940 Jun 05 10:05 1940 Jun 14 22:29 1940 Jun 20 12:02 1940 Jun 26 15:22 1940 Jun 26 18:22 1940 Jun 26 18:22 1940 Jun 05 10:05	12°M19'22 0° 9 29° 908'26 0°M 25°M07'24 0° % 0° % 0° % 0° % 0° Y 14° Y 28'25 0° 数 0° II 12° II 58'14 0° 9 11° 906'25 13° 918'16 11° 930'22 8° 954'08 5° 904'11 5° 913'21 5° 908'38 1° 930'35 30° RII	1°24'36 45°44'05 -4.7m -2°46'02 2°44'24
morning rise direct desc. node greatest brilliancy morning max el asc. node morning set desc. node	1937 Apr 18 11:03 1937 Apr 18 00:17 1937 Apr 23 07:59 1937 May 09 05:56 1937 May 18 10:31 1937 May 19 02:05 1937 Jun 04 06:41 1937 Jun 27 01:52 1937 Jul 07 21:12 1937 Aug 04 20:14 1937 Aug 31 00:07 1937 Sep 08 14:15 1937 Sep 25 04:03 1937 Oct 19 16:33 1937 Nov 12 19:42 1937 Dec 06 18:06 1937 Dec 24 08:52 1937 Dec 29 03:29 1937 Dec 30 14:42 1938 Jan 23 11:16 1938 Feb 04 04:04 1938 Feb 03 17:27 1938 Feb 07 04:42	27°Y20'14 27°Y37'14 24°Y21'54 19°Y26'22 20°Y58'54 21°Y11'50 0°℧ 19°℧19'29 0°爪 0°邳 10°Д08'02 0°™ 0°邳 22°ズ08'44 28°ズ09'13 0°उ 0°ж 14°≈41'48 14°≈08'29 18°≈29'37	6°25'58 0.28465 AU -4.7m 45°45'01	evening rise desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	1939 Sep 05 19:52 1939 Sep 20 01:02 1939 Oct 13 10:09 1939 Oct 14 02:41 1939 Nov 03 05:53 1939 Nov 07 03:40 1939 Dec 01 04:52 1939 Dec 25 07:25 1940 Jan 18 14:00 1940 Feb 12 05:51 1940 Feb 24 09:13 1940 Mar 08 16:25 1940 Apr 04 18:10 1940 Apr 17 12:21 1940 May 06 18:47 1940 May 25 08:30 1940 Jun 05 10:05 1940 Jun 14 22:29 1940 Jun 20 12:02 1940 Jun 26 15:22 1940 Jun 26 18:22 1940 Jun 26 18:22 1940 Jun 26 18:22 1940 Jun 05 16:17 1940 Jul 05 16:17 1940 Jul 05 16:17	12°M19'22 0° 9 29° 908'26 0°M 25°M07'24 0° ダ 0°で 0° % 0° Y 14°Y28'25 0° Y 11° 906'25 13° 918'16 11° 930'22 8° 954'08 5° 908'38 1° 930'35 30° R II 26° II 47'07	1°24'36 45°44'05 -4.7m -2°46'02 2°44'24 0.28978 AU
morning rise direct desc. node greatest brilliancy morning max el asc. node morning set desc. node superior conj minimum elong	1937 Apr 18 11:03 1937 Apr 18 00:17 1937 Apr 23 07:59 1937 May 09 05:56 1937 May 18 10:31 1937 May 19 02:05 1937 Jun 04 06:41 1937 Jun 27 01:52 1937 Jul 07 21:12 1937 Aug 04 20:14 1937 Aug 31 00:07 1937 Sep 08 14:15 1937 Sep 25 04:03 1937 Oct 19 16:33 1937 Nov 12 19:42 1937 Dec 06 18:06 1937 Dec 24 08:52 1937 Dec 29 03:29 1937 Dec 30 14:42 1938 Jan 23 11:16	27°Y20'14 27°Y37'14 24°Y21'54 19°Y26'22 20°Y58'54 21°Y11'50 0°℧ 19°℧19'29 0°Ⅲ 0°亞 0°№ 0°亞 0°№ 0°亞 0°™ 0°丞 22°ズ08'44 28°ズ09'13 0°उ 0°∞ 14°≈41'48 14°≈08'29	6°25'58 0.28465 AU -4.7m 45°45'01 -1°13'51 1°13'35	evening rise desc. node asc. node evening max el greatest brilliancy retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise	1939 Sep 05 19:52 1939 Sep 20 01:02 1939 Oct 13 10:09 1939 Oct 14 02:41 1939 Nov 03 05:53 1939 Nov 07 03:40 1939 Dec 01 04:52 1939 Dec 25 07:25 1940 Jan 18 14:00 1940 Feb 12 05:51 1940 Feb 24 09:13 1940 Mar 08 16:25 1940 Apr 04 18:10 1940 Apr 17 12:21 1940 May 06 18:47 1940 May 25 08:30 1940 Jun 05 10:05 1940 Jun 14 22:29 1940 Jun 20 12:02 1940 Jun 26 15:22 1940 Jun 26 18:22 1940 Jun 26 18:22 1940 Jun 05 10:05	12°M19'22 0° 9 29° 908'26 0°M 25°M07'24 0° % 0° % 0° % 0° % 0° Y 14° Y 28'25 0° 数 0° II 12° II 58'14 0° 9 11° 906'25 13° 918'16 11° 930'22 8° 954'08 5° 904'11 5° 913'21 5° 908'38 1° 930'35 30° RII	1°24'36 45°44'05 -4.7m -2°46'02 2°44'24 0.28978 AU

morning max el	1940 Sep 05 13:53	26° © 56'29	45°56'55		1943 Apr 15 20:12	0° I I	
morning man er	1940 Sep 08 16:59	0°Ω			1943 May 11 11:56	0°50	
asc. node	1940 Oct 06 01:58	29° Ω 06'07			1943 Jun 07 12:08	$0^{\circ}\Omega$	
	1940 Oct 06 21:10	0° m/y		evening max el	1943 Jun 28 01:24	20° Ω 54'09	45°25'41
	1940 Nov 01 17:24	0∘ <u>⊽</u>		C	1943 Jul 07 23:56	0° m)	
	1940 Nov 26 12:32	0°M₊		desc. node	1943 Jul 13 10:31	4° Mp 34'15	
	1940 Dec 20 19:36	0° ∡ ¹		greatest brilliancy	1943 Aug 05 23:03	18° m 50'15	-4.7m
	1941 Jan 13 21:29	8°0		retrograde	1943 Aug 15 16:36	20° m 33'09	
desc. node	1941 Jan 25 15:26	14° る 40'26		evening set	1943 Sep 02 16:17	14° m 34'03	
	1941 Feb 06 21:49	0° ≈		inferior conj	1943 Sep 06 00:05	12° My 32'22	-8°40'19
	1941 Mar 02 22:33	0° ∀		minimum elong	1943 Sep 05 22:22	12° m/35'02	8°40'17
morning set	1941 Mar 11 07:57	10°) 27′28		min. Earth dist.	1943 Sep 06 13:52	12°M/11'02	0.28500 AU
	1941 Mar 27 00:58	0° Y		morning rise	1943 Sep 09 04:13	10° Mp 35'29	
				direct	1943 Sep 27 09:15	4° Mp 21′04	
superior conj	1941 Apr 19 07:34	28° Ƴ 50'59		greatest brilliancy	1943 Oct 08 11:21	6° Mg 35′54	-4.8m
minimum elong	1941 Apr 19 17:38	29° Y 22'08	1°02'24	asc. node	1943 Nov 03 13:46	24° Mp 17'36	
	1941 Apr 20 05:53	0°8			1943 Nov 09 18:25	0∘ ত	
max. Earth dist.	1941 Apr 22 11:58	2° 8 47'09	1.72883 AU	morning max el	1943 Nov 16 16:36	6° ≏ 47'53	46°39'52
	1941 May 14 13:36	$\Pi^{\circ 0}$			1943 Dec 08 07:44	0°M	
asc. node	1941 May 18 18:53	5° Ⅱ 11'27			1944 Jan 03 04:43	0° ∡	
evening rise	1941 May 27 01:50	15° Ⅱ 22'42			1944 Jan 28 03:11	0°ಕ	
	1941 Jun 07 23:53	0°©			1944 Feb 21 16:40	0° ≈	
	1941 Jul 02 12:33	0° N		desc. node	1944 Feb 23 03:15	1°≈46′05	
	1941 Jul 27 04:12	0° m)			1944 Mar 17 02:46	0°) €	
	1941 Aug 21 00:29	0° ⊽			1944 Apr 10 12:09	0°Υ •••	
desc. node	1941 Sep 07 08:06	20° Ω 42'35			1944 May 04 22:04	0°8	
	1941 Sep 15 04:01	0° M 0° ₹		morning set	1944 May 21 09:54	20° 8 14'44	
	1941 Oct 10 19:21	0° ♂ 0°る		1-	1944 May 29 08:39	0°Ⅲ 20°Ⅲ45'57	
	1941 Nov 06 10:17	0°る 17° る 42'23	47917105	asc. node	1944 Jun 15 06:45 1944 Jun 22 19:12	20°Щ45'57 0° ©	
evening max el	1941 Nov 23 04:55 1941 Dec 05 23:04	0°≈	4/1005	max. Earth dist.	1944 Jun 26 01:27	4° © 00'23	1.73592 AU
asc. node	1941 Dec 03 23:04 1941 Dec 29 11:32	0 ≈ 17°≈17'56		max. Earm dist.	1944 Juli 20 01.27	4 900 23	1.73392 AU
greatest brilliancy	1941 Dec 29 11:32 1942 Jan 02 18:02	17 ≈1730 19°≈10'29	-4.9m	superior conj	1944 Jun 27 03:57	5° © 21'46	0°27'47
retrograde	1942 Jan 13 00:41	21°≈11'14	-4.7111	minimum elong	1944 Jun 26 22:32	5°905'08	0°27'31
evening set	1942 Jan 29 05:44	15°≈59'36		minimum ciong	1944 Jul 17 04:47	0°Ω	0 2/31
min. Earth dist.	1942 Feb 01 20:14	13°≈48'30	0.27034 AU	evening rise	1944 Aug 02 00:07	19° Ω 28'08	
inferior conj	1942 Feb 02 17:32	13°≈15'23	7°35'30	evening rise	1944 Aug 10 13:13	0°m)	
minimum elong	1942 Feb 02 08:08	13°≈29'59	7°33'56		1944 Sep 03 21:16	0∘ ⊽	
morning rise	1942 Feb 06 10:54	10°≈59'03	, 33 0 0		1944 Sep 28 06:12	0°M	
direct	1942 Feb 23 06:02	5° ≈ 31'09		desc. node	1944 Oct 04 20:03	8°M04'46	
greatest brilliancy	1942 Mar 04 05:40	7° ≈ 02'34	-4.9m		1944 Oct 22 17:07	0° ∡ 7	
· ·	1942 Apr 06 13:14	0°) €			1944 Nov 16 07:26	8°0	
morning max el	1942 Apr 13 20:54	6° ¥ 58'17	46°19'05		1944 Dec 11 04:47	0° ≈	
desc. node	1942 Apr 20 00:50	13° ∺ 07'12			1945 Jan 05 19:18	0° ∀	
	1942 May 06 02:25	$0^{\circ}\mathbf{\Upsilon}$		asc. node	1945 Jan 25 23:21	22° ∺ 20′05	
	1942 Jun 02 00:26	$8^{\circ 0}$			1945 Feb 02 08:07	0° Y	
	1942 Jun 27 22:18	$\Pi^{\circ}0$		evening max el	1945 Feb 02 23:14	0° Ƴ 38'23	46°52'25
	1942 Jul 23 06:10	0°©			1945 Mar 11 11:17	$8^{\circ 0}$	
asc. node	1942 Aug 11 04:24	22°5946'57		greatest brilliancy	1945 Mar 14 22:03	1° 8 28'52	-4.8m
	1942 Aug 17 03:04	$0^{\circ}\Omega$		retrograde	1945 Mar 25 11:24	3° 8 34'51	
	1942 Sep 10 14:38	0° m ∕			1945 Apr 07 19:15	30° ₹Ƴ	
	1942 Oct 04 18:57	0∘ ⊽		evening set	1945 Apr 11 08:47	28° Ƴ 01'07	
morning set	1942 Oct 08 16:31	4° £ 51'49		inferior conj	1945 Apr 15 16:44	25° Y 20'33	6°41'48
	1942 Oct 28 18:40	0°M₊		minimum elong	1945 Apr 16 02:29	25° Y 05′12	6°39'57
max. Earth dist.	1942 Nov 14 18:24	21°M19'30	1.71314 AU	min. Earth dist.	1945 Apr 15 15:09	25° Y 23'02	0.28435 AU
				morning rise	1945 Apr 20 20:26	22° Υ 11'28	
superior conj	1942 Nov 16 12:09	23°M30'36		direct	1945 May 06 21:03	17° Y 11'36	
minimum elong	1942 Nov 16 19:55	23°M 55'00	0°32'50	greatest brilliancy	1945 May 16 16:12	18° Y 56'47	-4.7m
	1942 Nov 21 16:07	0° ∡ ¹		desc. node	1945 May 17 12:38	19° Y 14'53	
desc. node	1942 Nov 30 17:49	11° ∡ 724′00			1945 Jun 04 22:58	0°8	450455
	1942 Dec 15 12:53	0°る		morning max el	1945 Jun 24 18:16	17° 8 09'29	45°45'30
evening rise	1942 Dec 27 14:31	15° る 09'53			1945 Jul 07 16:20	0° I I	
	1943 Jan 08 10:03	0° ≈			1945 Aug 04 10:59	0° ©	
	1943 Feb 01 09:01	0° ∀		•	1945 Aug 30 13:05	0° Ω	
	1943 Feb 25 12:04	0°Υ		asc. node	1945 Sep 07 16:09	9° Ω 36'17	
asa nada	1943 Mar 21 22:24	0°8 2°822'01			1945 Sep 24 16:06	0 ் ம 0° மி	
asc. node	1943 Mar 23 21:06	2° 8 22'01			1945 Oct 19 04:09	U =	

	1945 Nov 12 07:05 1945 Dec 06 05:22	0° M 0° ⊀		greatest brilliancy retrograde	1948 May 23 01:37 1948 Jun 03 02:01	8°\$58'00 11°\$09'01	-4.7m
morning set	1945 Dec 21 19:25	19° ∡ ³35'39		desc. node	1948 Jun 14 00:37	8°9647'27	
desc. node	1945 Dec 28 05:38	27° ∡ °40'38		evening set	1948 Jun 18 03:55	6° © 45'53	
	1945 Dec 30 01:56	0°る		inferior conj	1948 Jun 24 13:37	2° 9 55'04	-2°27'13
	1946 Jan 22 22:28	0° ≈		minimum elong	1948 Jun 24 08:23	3° © 03'17	2°25'43
				min. Earth dist.	1948 Jun 24 11:05	2° 9 59'03	0.28968 AU
superior conj	1946 Feb 01 14:19	12°≈08'10			1948 Jun 29 07:58	30°RⅡ	
minimum elong	1946 Feb 01 03:14	11°≈33'20		morning rise	1948 Jun 30 12:57	29° Ⅱ 18'42	
max. Earth dist.	1946 Feb 04 13:26 1946 Feb 15 20:11	15°≈51'20 0°) €	1.71348 AU	direct greatest brilliancy	1948 Jul 16 05:25 1948 Jul 26 12:56	24° Ⅲ 38'14 26° Ⅲ 32'52	4.7
	1946 Mar 11 20:31	0°Υ		greatest billiancy	1948 Aug 03 02:15	0°95	-4./111
evening rise	1946 Mar 14 05:47	2° Υ 58'11		morning max el	1948 Sep 03 04:10	24°9541'24	45°55'44
e vennig rise	1946 Apr 05 01:01	0°8		morning man vi	1948 Sep 08 13:40	0° Ω	
asc. node	1946 Apr 20 09:03	18° 8 52'44		asc. node	1948 Oct 05 04:08	28° Ω 28'58	
	1946 Apr 29 10:59	$\Pi^{\circ}0$			1948 Oct 06 12:25	0° m)	
	1946 May 24 03:39	0 \circ \odot			1948 Nov 01 06:42	0∘ 亚	
	1946 Jun 18 05:00	$0^{\circ}\Omega$			1948 Nov 26 00:55	0° M	
	1946 Jul 13 19:22	0° ™			1948 Dec 20 07:28	0° ∡ ¹	
	1946 Aug 09 08:34	0∘ ⊽			1949 Jan 13 09:01	0°ಕ	
desc. node	1946 Aug 09 22:12	0° Ω 37'25		desc. node	1949 Jan 24 17:24	14° る 10'55	
	1946 Sep 07 00:16	0°M	4 601 710 1		1949 Feb 06 09:05	0° ≈	
evening max el	1946 Sep 08 16:25	1°M37'36	46°17'01	. ,	1949 Mar 02 09:38	0°) {	
greatest brilliancy	1946 Oct 16 10:45 1946 Oct 18 21:47	0° ☎ 0° ☎ 54'06	-4.8m	morning set	1949 Mar 08 20:26 1949 Mar 26 11:54	8°) €02'31 0° Υ	
retrograde	1946 Oct 28 04:52	2° × ⁷ 29'49	-4.0111		1949 Wai 20 11.34	0 1	
retrograde	1946 Nov 08 08:56	30°RM		superior conj	1949 Apr 16 22:48	26° Ƴ 36'10	-1°05'03
evening set	1946 Nov 12 04:46	28°M06'43		minimum elong	1949 Apr 17 08:51	27° Υ '07'15	
inferior conj	1946 Nov 17 19:01	24°M50'05	-3°20'49	8	1949 Apr 19 16:44	0°8	
minimum elong	1946 Nov 18 02:16	24°M39'04		max. Earth dist.	1949 Apr 20 06:47	0° 8 43'28	1.72835 AU
min. Earth dist.	1946 Nov 18 08:00	24°M30'23	0.26695 AU		1949 May 14 00:25	$0^{\circ}\Pi$	
morning rise	1946 Nov 23 23:22	21°M14'15		asc. node	1949 May 17 20:59	4° Ⅱ 44'38	
asc. node	1946 Dec 01 01:38	18°M13'21		evening rise	1949 May 24 19:12	13° Ⅱ 15′17	
direct	1946 Dec 08 09:32	17°M06'56			1949 Jun 07 10:47	0ංම	
greatest brilliancy	1946 Dec 19 01:17	19° ™ 16'49	-4.9m		1949 Jul 01 23:40	$0^{\circ}\Omega$	
	1947 Jan 05 16:45	0° ⊀ 7	46056111		1949 Jul 26 15:43	0° m)	
morning max el	1947 Jan 28 02:23	20°♂29'52 0°る	46°56'11	4 4-	1949 Aug 20 12:39	0° 亞	
	1947 Feb 06 05:41 1947 Mar 05 05:09	0° ≈		desc. node	1949 Sep 06 10:08 1949 Sep 14 17:12	20° ♀ 10'37 0° ጤ	
desc. node	1947 Mar 22 15:07	0 ∞ 20°≈13'48			1949 Oct 10 10:18	0° ⊼ ¹	
dese. Hode	1947 Mar 30 22:14	0° ∀			1949 Nov 06 04:53	0°ਤ	
	1947 Apr 25 03:02	0° Υ		evening max el	1949 Nov 20 17:48	15° る 15'18	47°15'11
	1947 May 20 02:05	0°8		C	1949 Dec 06 06:05	0° ≈	
	1947 Jun 13 21:35	$\Pi^{\circ}0$		asc. node	1949 Dec 28 13:34	15° ≈ 34'50	
	1947 Jul 08 13:30	0 \circ \odot		greatest brilliancy	1949 Dec 31 08:35	16° ≈ 44'44	-4.9m
asc. node	1947 Jul 13 18:34	6° 5 21'58		retrograde	1950 Jan 10 13:35	18° ≈ 44'25	
morning set	1947 Jul 29 03:13	25° © 11'30		evening set	1950 Jan 26 15:03	13° ≈ 39′08	
	1947 Aug 02 01:06	0° N		min. Earth dist.	1950 Jan 30 09:51	11° ≈ 22'07	0.26978 AU
P. d. F.	1947 Aug 26 08:17	0° Mp	1 70705 444	inferior conj	1950 Jan 31 06:40	10° ≈ 49'48	7°23'07
max. Earth dist.	1947 Aug 31 04:26	5° Mp 59'52	1.72725 AU	minimum elong	1950 Jan 30 20:54	11°≈04'59 8°≈29'07	7°21'22
superior conj	1947 Sep 03 14:23	10° m) 14'01	1°24'18	morning rise direct	1950 Feb 04 03:04 1950 Feb 20 18:04	8 ≈2907 3°≈06'14	
minimum elong	1947 Sep 03 14:23			greatest brilliancy	1950 Mar 01 19:30	4°≈38'58	-4.9m
minimum ciong	1947 Sep 19 12:01	0° ⊽	1 2110	greatest orimaney	1950 Apr 06 15:13	0° ¥	1.5111
evening rise	1947 Oct 11 00:25	26° ≏ 48'34		morning max el	1950 Apr 11 09:29	4°) 35′06	46°20'47
Č	1947 Oct 13 13:49	0° M.		desc. node	1950 Apr 19 02:59	12° ¥ 20′12	
desc. node	1947 Nov 02 08:02	24°M38'56			1950 May 05 19:19	0° Y	
	1947 Nov 06 14:59	0° ≯			1950 Jun 01 14:19	9° 8	
	1947 Nov 30 16:23	ರ∘8			1950 Jun 27 10:45	$\Pi^{\circ}0$	
	1947 Dec 24 19:13	0° ≈			1950 Jul 22 17:50	0ංම	
	1948 Jan 18 02:14	0°) €		asc. node	1950 Aug 10 06:19	22°5518'29	
	1948 Feb 11 18:51	0°Υ 12° W 5 407			1950 Aug 16 14:17	0° N	
asc. node	1948 Feb 23 11:09	13° Y 54'07			1950 Sep 10 01:37	0° m)	
	1948 Mar 08 06:59	0°B		marning sat	1950 Oct 04 05:51	0° ჲ 2° ჲ 34'50	
evening max el	1948 Apr 04 12:40 1948 Apr 15 04:01	0°П 10°П45'37	15015112	morning set	1950 Oct 06 07:30 1950 Oct 28 05:33	2° ≥≥ 34°50 0°M	
evening max ci	1948 May 07 08:27	10 п 4337	→プリサム	max. Earth dist.	1950 Nov 12 05:10		1.71350 AU
	17 10 111uy 07 00.27	· •		mas. Darui dist.	1,501,00 12 05.10	10 110-70 1/	1.,1330 AU

	1050 N 12 22.50	210 m 02144	0927140	Ji4	1052 M 04 12-22	1.400050102	
superior conj	1950 Nov 13 23:59	21°M02'44		direct	1953 May 04 12:33	14°Υ58'03	
minimum elong	1950 Nov 14 08:22	21°M29'05	0°36'17	greatest brilliancy	1953 May 14 05:44	16° Y 42'07	-4.7m
	1950 Nov 21 03:03	0°⊀		desc. node	1953 May 16 14:40	17° Y 35'36	
desc. node	1950 Nov 29 19:53	10° ≯ 56′01			1953 Jun 05 10:34	9° 8	
	1950 Dec 14 23:54	ರ°ರ		morning max el	1953 Jun 22 10:39	15° 8 00'37	45°46'01
evening rise	1950 Dec 25 00:41	12° る 36'21		_	1953 Jul 07 10:29	$\Pi^{\circ}0$	
8 21	1951 Jan 07 21:10	0° ≈			1953 Aug 04 01:08	0ಂತಾ	
	1951 Jan 31 20:14	0° ∀			1953 Aug 30 01:35	$0^{\circ}\Omega$	
				1	_		
	1951 Feb 24 23:26	0° Υ		asc. node	1953 Sep 06 18:19	9° Ω 06'33	
	1951 Mar 21 10:05	9° 8			1953 Sep 24 03:48	0° m	
asc. node	1951 Mar 22 23:13	1° 8 52'52			1953 Oct 18 15:27	0∘ ⊽	
	1951 Apr 15 08:33	Π $^{\circ}0$			1953 Nov 11 18:12	0° M	
	1951 May 11 01:41	0°ಅ			1953 Dec 05 16:24	0° ∡ ¹	
	1951 Jun 07 05:10	$0^{\circ}\Omega$		morning set	1953 Dec 19 05:45	17° ∡ ¹02'45	
evening max el	1951 Jun 25 16:08	18° Ω 40'58	45°25'02	desc. node	1953 Dec 27 07:37	27° х 12'24	
evening max er	1951 Jul 08 04:54	0° m	43 23 02	dese. Hode	1953 Dec 27 07:57 1953 Dec 29 12:53	ිපි 0°පි	
desc. node	1951 Jul 12 12:27	3°₩31′25			1954 Jan 22 09:20	0° ≈	
greatest brilliancy	1951 Aug 03 11:34	16° Mp 35'03	-4.7m				
retrograde	1951 Aug 13 07:51	18° m , 20′05		superior conj	1954 Jan 30 00:17	9° ≈ 34'37	-1°09'27
evening set	1951 Aug 31 05:20	12° Mp 22'55		minimum elong	1954 Jan 29 12:48	8° ≈ 58'33	1°09'06
inferior conj	1951 Sep 03 15:08	10°M)18'17	-8°37'46	max. Earth dist.	1954 Feb 01 23:51	13° ≈ 19'17	1.71312 AU
minimum elong	1951 Sep 03 12:37	10°m/22'11	8°37'41		1954 Feb 15 07:01	0°) €	
min. Earth dist.	•		0.28551 AU			0°Υ	
	1951 Sep 04 03:48	9° m 58'42	0.28331 AU		1954 Mar 11 07:22		
morning rise	1951 Sep 06 19:43	8° ™ 20'53		evening rise	1954 Mar 11 17:43	0° Y 32'14	
direct	1951 Sep 25 00:58	2°Mp06'14			1954 Apr 04 11:55	$8^{\circ 0}$	
greatest brilliancy	1951 Oct 06 02:32	4° Mp 20′48	-4.8m	asc. node	1954 Apr 19 11:11	18° 8 25'37	
asc. node	1951 Nov 02 15:51	23° Mp 18'36			1954 Apr 28 22:03	$\Pi^{\circ}0$	
	1951 Nov 09 18:48	0∘ ⊽			1954 May 23 15:04	0°ಅ	
morning max el	1951 Nov 14 08:07	4° £ 30'42	46°38'33		1954 Jun 17 17:04	$0^{\circ}\Omega$	
morning max er	1951 Dec 08 00:19	0° M	40 30 33		1954 Jul 13 08:43	0° mp	
	1952 Jan 02 18:44	0° ∡		desc. node	1954 Aug 09 00:16	29° m 59'12	
	1952 Jan 27 15:58	0°₹			1954 Aug 09 00:34	0∘ ত	
	1952 Feb 21 04:42	0° ≈		evening max el	1954 Sep 06 06:12	29° ≏ 18'24	46°14'22
desc. node	1952 Feb 22 05:14	1°≈15'17			1954 Sep 06 23:28	0° M	
	1952 Mar 16 14:18	0° ∀		greatest brilliancy	1954 Oct 16 10:40	28°M29'15	-4.8m
	1952 Apr 09 23:17	$_{0}$ $^{\circ}$ \mathbf{Y}		,	1954 Oct 23 22:06	0° ⊼ ¹	
	1952 May 04 08:55	0°8		retrograde	1954 Oct 25 16:36	0° х 03′39	
. ,	•			renograde			
morning set	1952 May 19 03:17	18° 8 07'52			1954 Oct 27 10:43	30°RM₁	
	1952 May 28 19:19	$\Pi^{\circ}0$		evening set	1954 Nov 09 19:41	25°M37'25	
asc. node	1952 Jun 14 08:45	20° Ⅱ 19'37		inferior conj	1954 Nov 15 07:26	22°M23'51	-3°42'57
	1952 Jun 22 05:46	0 \circ \odot		minimum elong	1954 Nov 15 15:19	22°M11'50	3°40'38
max. Earth dist.	1952 Jun 24 00:50	2° © 12'16	1.73598 AU	min. Earth dist.	1954 Nov 15 21:38	22°M02'13	0.26742 AU
				morning rise	1954 Nov 21 10:32	18°M49'12	
superior conj	1952 Jun 24 22:17	3°518'11	0°24'47	asc. node	1954 Nov 30 03:39	15°M21'18	
minimum elong	1952 Jun 24 17:23	3° © 03'07	0°24'33	direct	1954 Dec 05 22:39	14°M40'02	
	1952 Jul 16 15:23	$0^{\circ}\Omega$		greatest brilliancy	1954 Dec 16 15:22	16°M50'25	-4.9m
evening rise	1952 Jul 30 18:58	17° Ω 25'26			1955 Jan 06 06:48	0° √	
	1952 Aug 09 23:58	0° m		morning max el	1955 Jan 25 15:06	18° ∡ 02'37	46°56'36
	1952 Sep 03 08:17	0∘ ⊽			1955 Feb 06 01:15	8°0	
	1952 Sep 27 17:36	0°M,			1955 Mar 04 20:21	0° ≈	
desc. node	1952 Oct 03 22:11	7°M35'59		desc. node	1955 Mar 21 17:19	19° ≈ 39'40	
dese. Hode	1952 Oct 22 05:02	0° ⊼		desc. node	1955 Mar 30 11:30	0° ∀	
						0°Υ	
	1952 Nov 15 20:03	0°る			1955 Apr 24 15:13		
	1952 Dec 10 18:30	0° ≈			1955 May 19 13:35	$8^{\circ 0}$	
	1953 Jan 05 11:10	0° ℋ			1955 Jun 13 08:38	Π $^{\circ}0$	
asc. node	1953 Jan 25 01:19	21°) €33'53			1955 Jul 08 00:15	0 \circ \odot	
evening max el	1953 Jan 31 14:55	28° ∺ 21'49	46°54'35	asc. node	1955 Jul 12 20:33	5°\$55'16	
5	1953 Feb 02 05:54	0°Υ		morning set	1955 Jul 26 21:11	23° © 06'39	
greatest brilliancy	1953 Mar 12 13:35	29° Υ 13'58	-4.8m		1955 Aug 01 11:43	0°Ω	
greatest brilliancy			-4.0111		_		
	1953 Mar 14 18:57	0° 8			1955 Aug 25 18:52	0° m	
retrograde	1953 Mar 23 03:53	1° 8 20'36		max. Earth dist.	1955 Aug 28 20:42	3° m 48'43	1.72773 AU
	1953 Mar 31 05:17	30° ₹Ƴ					
evening set	1953 Apr 09 03:18	25° Ƴ 42'30		superior conj	1955 Sep 01 07:57	8° Mp 06'46	1°23'52
inferior conj	1953 Apr 13 08:15	23° Y 06'18	6°55'09	minimum elong	1955 Sep 01 05:14	7° m 58'19	1°23'51
minimum elong	1953 Apr 13 17:52	22° Υ 51'09	6°53'24		1955 Sep 18 22:41	0∘ ⊽	
min. Earth dist.	1953 Apr 13 05:43	23° Υ 10'17	0.28404 AU	evening rise	1955 Oct 08 15:05	24° £ 31'00	
	=	23 γ 10 17 20° Υ 02'08	0.20404 AU	evening 1150		0°M	
morning rise	1953 Apr 18 08:45	20 10208			1955 Oct 13 00:39	U IIG	

desc. node	1955 Nov 01 10:06	24°M11'05			1958 May 05 11:59	$0^{\circ}\mathbf{\Upsilon}$	
desc. node	1955 Nov 06 02:02	24 IIG11 03 0° √			1958 Jun 01 04:07	0°8	
	1955 Nov 30 03:42	0°ろ			1958 Jun 26 23:08	0°II	
	1955 Dec 24 06:52	0°≈			1958 Jul 22 05:26	0° ©	
	1956 Jan 17 14:22	0° ∺		asc. node	1958 Aug 09 08:28	21° © 50'49	
	1956 Feb 11 07:46	0°Υ		ase. Houe	1958 Aug 16 01:28	0°Ω	
asc. node	1956 Feb 22 13:18	13° Y 20'42			1958 Sep 09 12:35	0° mp	
use. Houe	1956 Mar 07 21:31	0°8		morning set	1958 Oct 03 22:52	0° 亞 19'08	
	1956 Apr 04 07:23	0°II		morning sec	1958 Oct 03 16:44	0ಂ ರ	
evening max el	1956 Apr 12 18:45	8° Ⅱ 31'25	45°47'35		1958 Oct 27 16:26	0°M	
	1956 May 08 02:17	0°ಅ		max. Earth dist.	1958 Nov 09 17:50	16°M23'00	1.71382 AU
greatest brilliancy	1956 May 20 18:46	6°950'32	-4.7m				
retrograde	1956 May 31 18:04	9° 5 01'06		superior conj	1958 Nov 11 12:20	18°M36'29	0°40'02
desc. node	1956 Jun 13 02:35	6°901'47		minimum elong	1958 Nov 11 21:16	19° M 04'29	0°39'38
evening set	1956 Jun 15 20:03	4°938'21		Č	1958 Nov 20 13:59	0° ∡ ¹	
inferior conj	1956 Jun 22 06:09	0°9547'05	-2°08'09	desc. node	1958 Nov 28 21:52	10° ∡ 27'51	
minimum elong	1956 Jun 22 01:33	0°ഇ54'18	2°06'50		1958 Dec 14 10:55	8°0	
min. Earth dist.	1956 Jun 22 04:04	0°950'20	0.28958 AU	evening rise	1958 Dec 22 11:19	10° පි 04'24	
	1956 Jun 23 12:10	30°RⅡ		Č	1959 Jan 07 08:16	0° ≈	
morning rise	1956 Jun 28 07:04	27° Ⅱ 08'11			1959 Jan 31 07:28	0° ∀	
direct	1956 Jul 13 21:20	22° Ⅱ 30′16			1959 Feb 24 10:53	$0^{\circ}\mathbf{\Upsilon}$	
greatest brilliancy	1956 Jul 24 05:27	24° Ⅱ 24'58	-4.7m		1959 Mar 20 21:55	0° ႘	
,	1956 Aug 04 09:49	0°©		asc. node	1959 Mar 22 01:17	1° 8 23'07	
morning max el	1956 Aug 31 18:43	22° © 27'48	45°54'44		1959 Apr 14 21:08	$\Pi^{\circ}0$	
	1956 Sep 08 09:23	$0^{\circ}\Omega$			1959 May 10 15:45	0°©	
asc. node	1956 Oct 04 06:10	27° Ω 52'33			1959 Jun 06 22:42	$0^{\circ}\Omega$	
	1956 Oct 06 03:12	0° m)		evening max el	1959 Jun 23 07:50	16° Ω 29'55	45°24'39
	1956 Oct 31 19:40	0∘ ⊽		Č	1959 Jul 08 12:08	0° m y	
	1956 Nov 25 13:01	0° M .		desc. node	1959 Jul 11 14:31	2° m 27'06	
	1956 Dec 19 19:07	0° ∡ ¹		greatest brilliancy	1959 Aug 01 00:14	14° m 20'17	-4.7m
	1957 Jan 12 20:23	5°0		retrograde	1959 Aug 10 23:16	16°Mp07'16	
desc. node	1957 Jan 23 19:29	13° る 42'07		evening set	1959 Aug 28 18:20	10° m 12'37	
	1957 Feb 05 20:16	0° ≈		inferior conj	1959 Sep 01 06:23	8° Mp 04'30	-8°34'29
	1957 Mar 01 20:39	0° ∀		minimum elong	1959 Sep 01 03:06	8° m 09'35	8°34'19
morning set	1957 Mar 06 08:16	5° ∺ 35'36		min. Earth dist.	1959 Sep 01 17:41	7° ጦ 47'01	0.28596 AU
	1957 Mar 25 22:46	0 ° Υ		morning rise	1959 Sep 04 11:41	6° Mp 06′02	
					1959 Sep 20 03:01	30° R Ω	
superior conj	1957 Apr 14 13:39	24° Y 20'18	-1°07'18	direct	1959 Sep 22 17:15	29° Ω 51'55	
minimum elong	1957 Apr 14 23:36	24° Y 51'06	1°06'59		1959 Sep 25 08:14	0° m p	
max. Earth dist.	1957 Apr 17 23:16	28° Ƴ 32'48	1.72780 AU	greatest brilliancy	1959 Oct 03 17:11	2°M 05'16	-4.8m
	1957 Apr 19 03:28	$0^{\circ}S$		asc. node	1959 Nov 01 17:51	22° m 20'29	
	1957 May 13 11:08	$\Pi^{\circ}0$			1959 Nov 09 18:11	0∘ ত	
asc. node	1957 May 16 22:57	4° Ⅱ 17'43		morning max el	1959 Nov 12 00:02	2° ≏ 14'26	46°37'09
evening rise	1957 May 22 12:22	11° Ⅱ 07'37			1959 Dec 07 16:41	0°M₊	
	1957 Jun 06 21:35	0°®			1960 Jan 02 08:43	0°⊀	
	1957 Jul 01 10:42	$0^{\circ}\Omega$			1960 Jan 27 04:45	0°₹	
	1957 Jul 26 03:10	0° m ∕			1960 Feb 20 16:47	0° ≈	
	1957 Aug 20 00:44	0∘ ত		desc. node	1960 Feb 21 07:26	0°≈45′00	
desc. node	1957 Sep 05 12:17	19° ≏ 39'18			1960 Mar 16 01:53	0°) €	
	1957 Sep 14 06:20	0° M ₊			1960 Apr 09 10:32	0° Υ	
	1957 Oct 10 01:16	0° ∡			1960 May 03 19:56	0° 8	
	1957 Nov 05 23:46	0°る	.=	morning set	1960 May 16 20:33	15° 8 59'58	
evening max el	1957 Nov 18 06:36	12°る48'44	47°14'14		1960 May 28 06:11	0°II	
	1957 Dec 06 15:26	0° ≈		asc. node	1960 Jun 13 10:48	19° Ⅱ 52'46	
asc. node	1957 Dec 27 15:32	13°≈47'57	4.0	B 4 F .	1960 Jun 21 16:34	0.20	1 52500 111
greatest brilliancy	1957 Dec 28 22:34	14°≈18'34	-4.9m	max. Earth dist.	1960 Jun 21 23:55	0° © 22'36	1.73598 AU
retrograde	1958 Jan 08 02:47	16°≈17'59			10/01 20 1/04	10612115	0021144
evening set	1958 Jan 24 00:21	11°≈18'27	0.26020 433	superior conj	1960 Jun 22 16:24	1°513'15	0°21'44
min. Earth dist.	1958 Jan 27 23:17	8°≈55'54	0.26930 AU	minimum elong	1960 Jun 22 12:04	0°959'54	0°21'32
inferior conj	1958 Jan 28 19:47	8°≈24'11	7°09'41	ovonii-	1960 Jul 16 02:11	0° Ω	
minimum elong	1958 Jan 28 09:42	8°≈39'47	7°07'46	evening rise	1960 Jul 28 13:39	15° Ω 21'45	
morning rise	1958 Feb 01 19:21	5°≈59'08			1960 Aug 09 10:54	0° ™	
direct	1958 Feb 18 06:17	0°≈41'02	4.0		1960 Sep 02 19:29	0∘ w	
greatest brilliancy	1958 Feb 27 09:16	2°≈15'07	-4.9m	daga J-	1960 Sep 27 05:13	0°M	
	1958 Apr 06 16:00	0° ∀	46920126	desc. node	1960 Oct 03 00:11	7°M06'11	
morning max el	1958 Apr 08 23:02	2° ₩ 13'51	40-22-20		1960 Oct 21 17:12	0°⊀ 0° =	
desc. node	1958 Apr 18 05:00	11° 米 33'19			1960 Nov 15 08:57	0°₹	

	10(0.7) 10 00 24	00-			10/2 1 1 11 22 12	50620100	
	1960 Dec 10 08:34	0° ≈		asc. node	1963 Jul 11 22:42	5° © 28'09	
	1961 Jan 05 03:31	0° ∀		morning set	1963 Jul 24 15:10	21°900'54	
asc. node	1961 Jan 24 03:31	20°) (47′04			1963 Jul 31 22:38	0 \circ Ω	
evening max el	1961 Jan 29 06:53	26°) €05'17	46°56'42		1963 Aug 25 05:48	0° m y	
	1961 Feb 02 04:46	0 ° Υ		max. Earth dist.	1963 Aug 26 13:57	1° m 39'33	1.72824 AU
greatest brilliancy	1961 Mar 10 05:37	26° Ƴ 59'15	-4.8m				
retrograde	1961 Mar 20 20:13	29° Ƴ 05'45		superior conj	1963 Aug 30 01:30	5° m 58'28	1°23'19
evening set	1961 Apr 06 21:53	23° Y 23'40		minimum elong	1963 Aug 29 22:07	5° m 47'58	1°23'17
inferior conj	1961 Apr 10 23:51	20° Y 51'40	7°07'47	Č	1963 Sep 18 09:43	0∘ <u>v</u>	
minimum elong	1961 Apr 11 09:16	20° Y 36'49	7°06'09	evening rise	1963 Oct 06 05:47	22° ₽ 12'33	
min. Earth dist.	1961 Apr 10 20:22	20° Υ 57'09	0.28371 AU	evening rise	1963 Oct 12 11:50	0°M	
	=	17° Υ 52'21	0.20371 AC	desc. node		23°M41'51	
morning rise	1961 Apr 15 21:01			desc. node	1963 Oct 31 12:03		
direct	1961 May 02 04:15	12° Υ 44'15			1963 Nov 05 13:25	0° ∡ ¹	
greatest brilliancy	1961 May 11 19:10	14° Y 26'41	-4.8m		1963 Nov 29 15:21	0°る	
desc. node	1961 May 15 16:42	15° Y 59'15			1963 Dec 23 18:53	0° ≈	
	1961 Jun 05 19:25	0°8			1964 Jan 17 02:53	0° ∀	
morning max el	1961 Jun 20 02:27	12° 8 49'31	45°46'26		1964 Feb 10 21:09	0 ° Υ	
	1961 Jul 07 04:32	Π $^{\circ}0$		asc. node	1964 Feb 21 15:21	12° Ƴ 45'36	
	1961 Aug 03 15:28	0 \circ 60			1964 Mar 07 12:38	9° 8	
	1961 Aug 29 14:18	$0^{\circ}\Omega$			1964 Apr 04 03:03	Π° 0	
asc. node	1961 Sep 05 20:24	8° Ω 35'41		evening max el	1964 Apr 10 09:11	6° Ⅱ 15'21	45°49'38
	1961 Sep 23 15:43	0° m/		<i>5</i>	1964 May 09 03:16	0°©	
	1961 Oct 18 02:58	0∘ ರ ೧.ಗ		greatest brilliancy	1964 May 18 11:31	4°9541'36	-4.7m
	1961 Nov 11 05:32	0° m .		retrograde	1964 May 29 10:29	6°952'25	- 4 ./III
greatest brilliancy	1961 Nov 16 20:36	7°M02'35	2 0m	desc. node	1964 Jun 12 04:39	3°9511'26	
greatest offinancy			-3.9111				
	1961 Dec 05 03:40	0° 🗖		evening set	1964 Jun 13 12:20	2°S29'34	
morning set	1961 Dec 16 16:10	14° ₹ 29'15			1964 Jun 17 18:17	30°RⅡ	
desc. node	1961 Dec 26 09:40	26° ∡ ⁴43'36		inferior conj	1964 Jun 19 22:40	28° Ⅲ 38'15	
	1961 Dec 29 00:07	0°₹		minimum elong	1964 Jun 19 18:43	28° Ⅱ 44'27	
	1962 Jan 21 20:31	0° ≈		min. Earth dist.	1964 Jun 19 20:59	28° Ⅱ 40'53	0.28949 AU
				morning rise	1964 Jun 26 01:06	24° Ⅱ 57'12	
superior conj	1962 Jan 27 10:19	7° ≈ 00'18	-1°07'00	direct	1964 Jul 11 13:00	20° Ⅲ 21′23	
minimum elong	1962 Jan 26 22:33	6° ≈ 23'22	1°06'39	greatest brilliancy	1964 Jul 21 22:05	22° Ⅱ 16′34	-4.7m
max. Earth dist.	1962 Jan 30 08:26	10° ≈ 40′29	1.71274 AU		1964 Aug 05 08:53	0 \circ \odot	
	1962 Feb 14 18:09	0° ∀		morning max el	1964 Aug 29 10:04	20° © 15'21	45°53'42
evening rise	1962 Mar 09 05:39	28° ₩ 05'21		-	1964 Sep 08 04:53	$0^{\circ}\Omega$	
Č	1962 Mar 10 18:28	$0^{\circ}\mathbf{\Upsilon}$		asc. node	1964 Oct 03 08:09	27° Ω 15'14	
	1962 Apr 03 23:05	0°8			1964 Oct 05 18:10	0° m)	
asc. node	1962 Apr 18 13:09	17° 8 57'12			1964 Oct 31 08:54	0∘ ত مسم	
asc. node	1962 Apr 28 09:23	0° Ⅱ			1964 Nov 25 01:25	0° m .	
	•	0°ಅ			1964 Dec 19 07:02	0° ⊼ ¹	
	1962 May 23 02:46						
	1962 Jun 17 05:31	$\Omega^{\circ}\Omega$			1965 Jan 12 08:00	0°る	
	1962 Jul 12 22:32	0° т р		desc. node	1965 Jan 22 21:36	13° る 12'43	
desc. node	1962 Aug 08 02:25	29° m 19'44			1965 Feb 05 07:41	0° ≈	
	1962 Aug 08 17:13	0∘ ত			1965 Mar 01 07:55	0° ∀	
evening max el	1962 Sep 03 19:14	26° £ 56'35	46°11'51	morning set	1965 Mar 03 19:49	3° ∺ 06'54	
	1962 Sep 07 00:11	0°M₊			1965 Mar 25 09:54	0° Y	
greatest brilliancy	1962 Oct 14 00:15	26°M04'50	-4.8m				
retrograde	1962 Oct 23 04:14	27°M37'36		superior conj	1965 Apr 12 04:21	22° Y 03'04	-1°09'26
evening set	1962 Nov 07 10:55	23°M07'49		minimum elong	1965 Apr 12 14:10	22° Y 33'28	1°09'09
inferior conj	1962 Nov 12 20:06	19° M 57'42	-4°04'20	max. Earth dist.	1965 Apr 15 13:37	26° Ƴ 14'34	1.72727 AU
minimum elong	1962 Nov 13 04:35	19° M 44'47	4°01'54		1965 Apr 18 14:31	0°B	
min. Earth dist.	1962 Nov 13 11:47	19°M33'49	0.26792 AU		1965 May 12 22:08	Π° 0	
morning rise	1962 Nov 18 21:43	16°M24'30		asc. node	1965 May 16 01:03	3° Ⅱ 50′21	
asc. node	1962 Nov 29 05:42	12°M34'57		evening rise	1965 May 20 05:28	8° Ⅲ 58'55	
direct	1962 Dec 03 11:26	12°M12'56		evening rise	1965 Jun 06 08:39	0° ©	
	1962 Dec 14 06:10	14°M24'34	4.0m		1965 Jun 30 21:59	0°N	
greatest brilliancy		14 1162434 0° √	7.7111				
momis 1	1963 Jan 06 17:35		16056151		1965 Jul 25 14:51	0° m)	
morning max el	1963 Jan 23 03:34	15° ∡ 33'45	46°56'54	J 1	1965 Aug 19 13:06	0° ⊽	
	1963 Feb 05 20:35	ිර ව		desc. node	1965 Sep 04 14:14	19° 2 06′24	
	1963 Mar 04 11:41	0°≈			1965 Sep 13 19:50	0° M ₊	
desc. node	1963 Mar 20 19:15	19° ≈ 04'02			1965 Oct 09 16:46	0° ∡	
	1963 Mar 30 01:00	0° ∀			1965 Nov 05 19:36	0°ಕ	
	1963 Apr 24 03:39	$0^{\circ}\mathbf{\Upsilon}$		evening max el	1965 Nov 15 20:12	10° る 23'16	47°13'13
	1963 May 19 01:21	9° 8			1965 Dec 07 04:37	0° ≈	
	1963 Jun 12 19:57	$\Pi^{\circ}0$		greatest brilliancy	1965 Dec 26 11:52	11° ≈ 50′11	-4.9m
	1963 Jul 07 11:18	0 \circ \odot		asc. node	1965 Dec 26 17:43	11° ≈ 55'36	

retrograde	1966 Jan 05 16:21	13° ≈ 49'56		superior conj	1968 Jun 20 10:22	29° Ⅱ 07'51	0018130
evening set	1966 Jan 21 09:29	8°≈55'56		minimum elong	1968 Jun 20 06:36	28° I I56'16	0°18'28
min. Earth dist.	1966 Jan 25 12:11	6°≈28'23	0.26881 AU	max. Earth dist.	1968 Jun 19 22:24	28° I I3010	1.73596 AU
inferior conj	1966 Jan 26 08:37	5°≈56'51	6°55'17	max. Earth dist.	1968 Jun 21 03:20	0°95	1.75570710
minimum elong	1966 Jan 25 22:18	6°≈12'46	6°53'12		1968 Jul 15 12:59	$0^{\circ}\Omega$	
morning rise	1966 Jan 30 11:27	3°≈27'31	0 00 12	evening rise	1968 Jul 26 08:20	13°Ω18'03	
5	1966 Feb 06 12:46	30°Rる		8 11	1968 Aug 08 21:49	0° m)	
direct	1966 Feb 15 18:41	28° ප 14'17			1968 Sep 02 06:39	0∘ <u>v</u>	
greatest brilliancy	1966 Feb 24 22:15	29° ප් 49'14	-4.9m		1968 Sep 26 16:45	0° M	
	1966 Feb 25 10:54	0° ≈		desc. node	1968 Oct 02 02:13	6°M36'45	
morning max el	1966 Apr 06 13:18	29° ≈ 53'38	46°24'02		1968 Oct 21 05:16	0° ∡ ″	
	1966 Apr 06 15:53	0°) €			1968 Nov 14 21:47	8°0	
desc. node	1966 Apr 17 07:02	10°) 46′30			1968 Dec 09 22:40	0° ≈	
	1966 May 05 04:33	0° Y			1969 Jan 04 20:07	0° ∀	
	1966 May 31 18:00	9° 8		asc. node	1969 Jan 23 05:30	19° ¥ 58'45	
	1966 Jun 26 11:40	$\Pi^{\circ}0$		evening max el	1969 Jan 26 22:18	23°)(47'01	46°58'31
	1966 Jul 21 17:11	0 \circ			1969 Feb 02 04:45	0 ° Υ	
asc. node	1966 Aug 08 10:32	21° 5 22'29		greatest brilliancy	1969 Mar 07 22:06	24° Y 44'13	-4.8m
	1966 Aug 15 12:47	$0 ^{\circ} \Omega$		retrograde	1969 Mar 18 11:49	26° Y 49'42	
	1966 Sep 08 23:40	0° m		evening set	1969 Apr 04 16:11	21° Y 03'56	
morning set	1966 Oct 01 14:24	28° Mp 03'39		inferior conj	1969 Apr 08 15:10	18° Ƴ 36′08	7°19'50
	1966 Oct 03 03:44	0∘ ত		minimum elong	1969 Apr 09 00:19	18° Y 21'42	7°18'22
	1966 Oct 27 03:28	0°M₊		min. Earth dist.	1969 Apr 08 11:02	18° Y 42'40	0.28334 AU
max. Earth dist.	1966 Nov 07 05:24	13°M53'52	1.71420 AU	morning rise	1969 Apr 13 08:49	15° Y 41'44	
				direct	1969 Apr 29 19:20	10° Y 29'39	
superior conj	1966 Nov 09 00:40	16° ™ 09'39	0°43'19	greatest brilliancy	1969 May 09 08:36	12° Y 10′38	-4.8m
minimum elong	1966 Nov 09 10:01	16°M39'02	0°42'54	desc. node	1969 May 14 18:47	14° Y 25'51	
	1966 Nov 20 01:06	0° ₹			1969 Jun 06 01:48	0° 8	45046155
desc. node	1966 Nov 27 24:00	9° ∡ 759'30		morning max el	1969 Jun 17 17:06	10° 8 35'38	45°46'5'/
	1966 Dec 13 22:09	0°る			1969 Jul 06 22:04	0° © 0°∏	
evening rise	1966 Dec 19 21:33	7° る 30'29			1969 Aug 03 05:30	0.℃ 0.≈	
	1967 Jan 06 19:36	0° ₩		aga mada	1969 Aug 29 02:48	8° Ω 04'53	
	1967 Jan 30 18:53 1967 Feb 23 22:29	0 Υ 0° Υ		asc. node	1969 Sep 04 22:18	0°M)	
	1967 Mar 20 09:56	0° 8			1969 Sep 23 03:26 1969 Oct 17 14:17	0∘ ʊ 0 ılıı	
asc. node	1967 Mar 21 03:15	0° 8 52'35			1969 Nov 10 16:40	0°M	
asc. Houc	1967 Apr 14 09:54	0°II		greatest brilliancy	1969 Nov 21 19:32	13°M55'47	-3.9m
	1967 May 10 06:05	0 .ಪ		greatest offinancy	1969 Dec 04 14:41	0° √	3.7111
	1967 Jun 06 16:48	$0 {\circ} \Omega$		morning set	1969 Dec 14 03:00	11° х 57'53	
evening max el	1967 Jun 21 00:05	14° Ω 19'54	45°24'17	desc. node	1969 Dec 25 11:47	26° ₹ 15'48	
evening man er	1967 Jul 08 22:11	0° mp	2.17	dese. node	1969 Dec 28 11:04	0°ਰ ਹਾ	
desc. node	1967 Jul 10 16:41	1° m 20'58			1970 Jan 21 07:26	0° ≈	
greatest brilliancy	1967 Jul 29 13:27	12° m 06'09	-4.7m				
retrograde	1967 Aug 08 14:29	13° m 54'24		superior conj	1970 Jan 24 20:27	4°≈27'04	-1°04'26
evening set	1967 Aug 26 07:09	8° m 03'06		minimum elong	1970 Jan 24 08:32	3° ≈ 49'39	1°04'02
inferior conj	1967 Aug 29 21:40	5° m 51'00	-8°30'23	max. Earth dist.	1970 Jan 27 14:32	7° ≈ 54'36	1.71244 AU
minimum elong	1967 Aug 29 17:38	5° m 57'14	8°30'09		1970 Feb 14 05:04	0°) €	
min. Earth dist.	1967 Aug 30 07:40	5° Mp 35'30	0.28636 AU	evening rise	1970 Mar 06 17:15	25°) 37'49	
morning rise	1967 Sep 02 04:00	3° Mp 50'51			1970 Mar 10 05:25	$0^{\circ}\Upsilon$	
	1967 Sep 09 11:58	30° R Ω			1970 Apr 03 10:05	0°B	
direct	1967 Sep 20 09:34	27° Ω 38′09		asc. node	1970 Apr 17 15:14	17° 8 29'38	
greatest brilliancy	1967 Oct 01 07:22	29° Ω 49'32	-4.8m		1970 Apr 27 20:33	Π $\circ 0$	
	1967 Oct 01 18:07	0° m p			1970 May 22 14:19	0 \circ \odot	
asc. node	1967 Oct 31 19:56	21°Mp23'58			1970 Jun 16 17:49	0 ° Ω	
morning max el	1967 Nov 09 15:17	29° Mp 56'50	46°35'34		1970 Jul 12 12:16	0°Щ	
	1967 Nov 09 16:32	0∘ ⊽		desc. node	1970 Aug 07 04:21	28° m 39'53	
	1967 Dec 07 08:48	0°M			1970 Aug 08 09:59	0∘ ⊽	
	1968 Jan 01 22:37	0° ∡		evening max el	1970 Sep 01 07:37	24° Ω 33'59	46°09'25
4 1	1968 Jan 26 17:35	0°る13143			1970 Sep 07 01:54	0°M	4.0-
desc. node	1968 Feb 20 09:23	0°≈13'43		greatest brilliancy	1970 Oct 11 13:54	23°M41'26	-4.8m
	1968 Feb 20 04:55	0° ∺		retrograde	1970 Oct 20 15:57	25°M12'53	
	1968 Mar 15 13:32 1968 Apr 08 21:48	0°π 0°Υ		evening set inferior conj	1970 Nov 05 02:15 1970 Nov 10 08:49	20°M39'00 17°M32'47	-4°25'06
	1968 Apr 08 21:48 1968 May 03 06:56	0° 8		minimum elong	1970 Nov 10 08:49 1970 Nov 10 17:49	17°11632'47 17°11619'04	
morning set	1968 May 14 13:30	13° 8 51'08		min. Earth dist.	1970 Nov 10 17.49 1970 Nov 11 02:02	17 1161904 17°11606'31	0.26842 AU
morning set	1968 May 27 17:02	0°II		morning rise	1970 Nov 16 08:43	14°M01'32	J.20072 AU
asc. node	1968 Jun 12 12:55	19° ∏ 26′10		asc. node	1970 Nov 28 07:47	9°M55'36	
300. 11040	->00 tan 12 12.00	.,		200. 1.0uc	->,01101 20 0/.7/	, no.5550	

direct	1970 Dec 01 00:03	9° M 46'50			1973 Jun 05 19:20	0° ©	
greatest brilliancy	1970 Dec 11 21:15	12°M00'25	-4.9m		1973 Jun 30 08:55	0° U	
greatest orimaney	1971 Jan 07 01:00	0°×7	1.7111		1973 Jul 25 02:13	0° m)	
morning max el	1971 Jan 20 16:24	13° × ⁷ 07'03	46°57'19		1973 Aug 19 01:10	0∘ ⊽	
	1971 Feb 05 14:57	0° ਰ		desc. node	1973 Sep 03 16:17	18° ≏ 34'42	
	1971 Mar 04 02:24	0° ≈			1973 Sep 13 09:05	0°M	
desc. node	1971 Mar 19 21:17	18° ≈ 30'02			1973 Oct 09 08:08	0° ∡ ¹	
	1971 Mar 29 14:02	0° ∀			1973 Nov 05 15:39	8°0	
	1971 Apr 23 15:44	0 ° $\mathbf{\Upsilon}$		evening max el	1973 Nov 13 10:43	8° ප 01'15	47°12'04
	1971 May 18 12:48	9° 8			1973 Dec 07 21:37	0° ≈	
	1971 Jun 12 06:58	$\Pi^{\circ}0$		greatest brilliancy	1973 Dec 24 00:51	9° ≈ 22'17	-4.9m
	1971 Jul 06 22:02	$0 \circ \mathfrak{S}$		asc. node	1973 Dec 25 19:43	9° ≈ 59'19	
asc. node	1971 Jul 11 00:43	5° 5 01'33		retrograde	1974 Jan 03 06:07	11° ≈ 22′25	
morning set	1971 Jul 22 08:54	18° © 55'19		evening set	1974 Jan 18 18:41	6° ≈ 33'55	
	1971 Jul 31 09:15	0 $^{\circ}\Omega$		min. Earth dist.	1974 Jan 23 00:55	4° ≈ 01'30	0.26830 AU
max. Earth dist.	1971 Aug 24 09:14	29° Ω 37'45	1.72874 AU	inferior conj	1974 Jan 23 21:20	3° ≈ 30′05	6°40'03
	1971 Aug 24 16:25	0° m ∕		minimum elong	1974 Jan 23 10:52	3° ≈ 46′12	6°37'49
				morning rise	1974 Jan 28 03:27	0° ≈ 56'25	
superior conj	1971 Aug 27 18:54	3° m 50'42			1974 Jan 29 19:51	30°Rる	
minimum elong	1971 Aug 27 14:53	3° m 38'16	1°22'36	direct	1974 Feb 13 07:28	25° ⋜ 48'16	
	1971 Sep 17 20:25	0∘ ⊽		greatest brilliancy	1974 Feb 22 10:47	27° る 23'33	-4.9m
evening rise	1971 Oct 03 20:36	19° ≙ 55'32			1974 Feb 28 14:25	0° ≈	
	1971 Oct 11 22:43	0°M		morning max el	1974 Apr 04 03:49	27°≈35'13	46°25'46
desc. node	1971 Oct 30 14:11	23°M14'07			1974 Apr 06 14:17	0°) {	
	1971 Nov 05 00:30	0° ∡		desc. node	1974 Apr 16 09:09	10°) €01'52	
	1971 Nov 29 02:41	5°0			1974 May 04 20:21	$\gamma_{\circ 0}$	
	1971 Dec 23 06:32	0° ≈ 0° ∀			1974 May 31 07:19	0°B 8°0	
	1972 Jan 16 15:01 1972 Feb 10 10:08	0° Υ			1974 Jun 25 23:44 1974 Jul 21 04:34	0.2€	
asc. node	1972 Feb 10 10:08 1972 Feb 20 17:18	12° Υ 11'30		asc. node	1974 Aug 07 12:29	20°954'50	
asc. Houe	1972 Mar 07 03:25	0° 8		asc. noue	1974 Aug 07 12:29 1974 Aug 14 23:46	20 3 34 30 0° Ω	
	1972 Apr 03 22:48	0°II			1974 Sep 08 10:27	0° m)	
evening max el	1972 Apr 03 22:48 1972 Apr 08 00:08	4° Ⅱ 01'48	45°51'37	morning set	1974 Sep 08 10:27 1974 Sep 29 05:57	25° Mp 49'16	
evening max er	1972 May 10 13:51	0°9	13 3137	morning sec	1974 Oct 02 14:27	0° ರ	
greatest brilliancy	1972 May 16 03:42	2°932'55	-4.7m		1974 Oct 26 14:12	0° m	
retrograde	1972 May 27 03:14	4°9544'38	,	max. Earth dist.	1974 Nov 04 15:00	11° M 19'35	1.71457 AU
evening set	1972 Jun 11 04:43	0°921'19					
desc. node	1972 Jun 11 06:45	0° © 18'33		superior conj	1974 Nov 06 13:09	13° M 44'21	0°46'29
	1972 Jun 11 20:09	30°RⅡ		minimum elong	1974 Nov 06 22:52	14° M .14'50	0°46'05
inferior conj	1972 Jun 17 15:09	26° Ⅱ 30′09	-1°29'34	Č	1974 Nov 19 11:56	0° ∡ ″	
minimum elong	1972 Jun 17 11:53	26° Ⅲ 35′16	1°28'37	desc. node	1974 Nov 27 02:02	9° ∡ ³31'49	
min. Earth dist.	1972 Jun 17 13:40	26° Ⅲ 32'29	0.28942 AU		1974 Dec 13 09:06	0°ප	
morning rise	1972 Jun 23 19:01	22° Ⅱ 47'18		evening rise	1974 Dec 17 07:49	4° る 57'32	
direct	1972 Jul 09 04:55	18° Ⅱ 13'11			1975 Jan 06 06:39	0° ≈	
greatest brilliancy	1972 Jul 19 14:33	20° Ⅱ 08'57	-4.7m		1975 Jan 30 06:05	0° ∀	
	1972 Aug 06 01:26	0ංම			1975 Feb 23 09:53	0 ° Υ	
morning max el	1972 Aug 27 02:15	18° 5 06'08	45°52'41		1975 Mar 19 21:42	9° 8	
	1972 Sep 07 23:27	0 \circ Ω		asc. node	1975 Mar 20 05:23	0° 8 23'18	
asc. node	1972 Oct 02 10:19	26° Ω 39'49			1975 Apr 13 22:26	0°Щ	
	1972 Oct 05 08:33	0° m ∕			1975 May 09 20:11	0₀ ©	
	1972 Oct 30 21:40	0∘ 亚			1975 Jun 06 10:54	0°N	45000155
	1972 Nov 24 13:23	0° M		evening max el	1975 Jun 18 16:07	12° Ω 10′22	45°23'52
	1972 Dec 18 18:34	0° ∡ ¹			1975 Jul 09 11:06	0° Mp	
desc. node	1973 Jan 11 19:15	0°る		desc. node	1975 Jul 09 18:35	0° Mp 13'39	4.7.
	1973 Jan 21 23:33	12° る 43'57		greatest brilliancy	1975 Jul 27 03:24	9° m 53'59	-4.7m
	1973 Jan 21 23:33 1973 Feb 04 18:43	12° ප් 43'57 0°≈		greatest brilliancy retrograde	1975 Jul 27 03:24 1975 Aug 06 05:21	9° m 53'59 11° m 42'47	-4.7m
morning set	1973 Jan 21 23:33 1973 Feb 04 18:43 1973 Feb 28 18:45	12°る43'57 0°≈ 0°升		greatest brilliancy retrograde evening set	1975 Jul 27 03:24 1975 Aug 06 05:21 1975 Aug 23 19:55	9° M 53'59 11° M 42'47 5° M 55'20	
morning set	1973 Jan 21 23:33 1973 Feb 04 18:43 1973 Feb 28 18:45 1973 Mar 01 07:37	12°る43'57 0°≈ 0°∺ 0°∺40'11		greatest brilliancy retrograde evening set inferior conj	1975 Jul 27 03:24 1975 Aug 06 05:21 1975 Aug 23 19:55 1975 Aug 27 13:11	9° m 53'59 11° m 42'47 5° m 55'20 3° m 38'52	-8°25'34
morning set	1973 Jan 21 23:33 1973 Feb 04 18:43 1973 Feb 28 18:45	12°る43'57 0°≈ 0°升		greatest brilliancy retrograde evening set inferior conj minimum elong	1975 Jul 27 03:24 1975 Aug 06 05:21 1975 Aug 23 19:55 1975 Aug 27 13:11 1975 Aug 27 08:25	9° m 53'59 11° m 42'47 5° m 55'20 3° m 38'52 3° m 46'16	-8°25'34 8°25'15
-	1973 Jan 21 23:33 1973 Feb 04 18:43 1973 Feb 28 18:45 1973 Mar 01 07:37 1973 Mar 24 20:34	12°♂43'57 0°≈ 0°ℋ 0°ℋ40'11 0°℉	-1°11'27	greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	1975 Jul 27 03:24 1975 Aug 06 05:21 1975 Aug 23 19:55 1975 Aug 27 13:11 1975 Aug 27 08:25 1975 Aug 27 22:13	9° m 53'59 11° m 42'47 5° m 55'20 3° m 38'52 3° m 46'16 3° m 24'49	-8°25'34
superior conj	1973 Jan 21 23:33 1973 Feb 04 18:43 1973 Feb 28 18:45 1973 Mar 01 07:37 1973 Mar 24 20:34 1973 Apr 09 19:13	12°₹43'57 0°≈ 0°¥ 0°¥40'11 0°Υ		greatest brilliancy retrograde evening set inferior conj minimum elong	1975 Jul 27 03:24 1975 Aug 06 05:21 1975 Aug 23 19:55 1975 Aug 27 13:11 1975 Aug 27 08:25 1975 Aug 27 22:13 1975 Aug 30 20:46	9° m 53'59 11° m 42'47 5° m 55'20 3° m 38'52 3° m 46'16 3° m 24'49 1° m 36'32	-8°25'34 8°25'15
superior conj minimum elong	1973 Jan 21 23:33 1973 Feb 04 18:43 1973 Feb 28 18:45 1973 Mar 01 07:37 1973 Mar 24 20:34 1973 Apr 09 19:13 1973 Apr 10 04:50	12°₹43'57 0°≈ 0°¥ 0°¥40'11 0°Υ 19°Υ47'38 20°Υ17'25	1°11'11	greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	1975 Jul 27 03:24 1975 Aug 06 05:21 1975 Aug 23 19:55 1975 Aug 27 13:11 1975 Aug 27 08:25 1975 Aug 27 22:13 1975 Aug 30 20:46 1975 Sep 02 15:34	9° m 53'59 11° m 42'47 5° m 55'20 3° m 38'52 3° m 46'16 3° m 24'49 1° m 36'32 30° R \Omega	-8°25'34 8°25'15
superior conj	1973 Jan 21 23:33 1973 Feb 04 18:43 1973 Feb 28 18:45 1973 Mar 01 07:37 1973 Mar 24 20:34 1973 Apr 09 19:13 1973 Apr 10 04:50 1973 Apr 13 05:00	12°₹43'57 0°≈ 0°¥ 0°¥40'11 0°Υ 19°Υ47'38 20°Υ17'25 24°Υ00'53		greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	1975 Jul 27 03:24 1975 Aug 06 05:21 1975 Aug 23 19:55 1975 Aug 27 13:11 1975 Aug 27 08:25 1975 Aug 27 22:13 1975 Aug 30 20:46 1975 Sep 02 15:34 1975 Sep 18 01:46	9° m 53'59 11° m 42'47 5° m 55'20 3° m 38'52 3° m 46'16 3° m 24'49 1° m 36'32	-8°25'34 8°25'15
superior conj minimum elong	1973 Jan 21 23:33 1973 Feb 04 18:43 1973 Feb 28 18:45 1973 Mar 01 07:37 1973 Mar 24 20:34 1973 Apr 09 19:13 1973 Apr 10 04:50	12°₹43'57 0°≈ 0°¥ 0°¥40'11 0°Υ 19°Υ47'38 20°Υ17'25	1°11'11	greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	1975 Jul 27 03:24 1975 Aug 06 05:21 1975 Aug 23 19:55 1975 Aug 27 13:11 1975 Aug 27 08:25 1975 Aug 27 22:13 1975 Aug 30 20:46 1975 Sep 02 15:34	9° m 53'59 11° m 42'47 5° m 55'20 3° m 38'52 3° m 46'16 3° m 24'49 1° m 36'32 30° R Ω 25° Ω 25'42	-8°25'34 8°25'15 0.28675 AU
superior conj minimum elong	1973 Jan 21 23:33 1973 Feb 04 18:43 1973 Feb 28 18:45 1973 Mar 01 07:37 1973 Mar 24 20:34 1973 Apr 09 19:13 1973 Apr 10 04:50 1973 Apr 13 05:00 1973 Apr 18 01:05	12°₹43'57 0°≈ 0°¥ 0°¥40'11 0°Υ 19°Υ47'38 20°Υ17'25 24°Υ00'53 0°8	1°11'11	greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	1975 Jul 27 03:24 1975 Aug 06 05:21 1975 Aug 23 19:55 1975 Aug 27 13:11 1975 Aug 27 08:25 1975 Aug 27 22:13 1975 Aug 30 20:46 1975 Sep 02 15:34 1975 Sep 18 01:46 1975 Sep 28 22:13	9° m 53'59 11° m 42'47 5° m 55'20 3° m 38'52 3° m 46'16 3° m 24'49 1° m 36'32 30° R Ω 25° Ω 25'42 27° Ω 35'24	-8°25'34 8°25'15 0.28675 AU
superior conj minimum elong max. Earth dist.	1973 Jan 21 23:33 1973 Feb 04 18:43 1973 Feb 28 18:45 1973 Mar 01 07:37 1973 Mar 24 20:34 1973 Apr 09 19:13 1973 Apr 10 04:50 1973 Apr 13 05:00 1973 Apr 18 01:05 1973 May 12 08:42	12°₹43'57 0°≈ 0° ₩ 0° ₩40'11 0° Ψ 19° Ψ47'38 20° Ψ17'25 24° Ψ00'53 0° ₩ 0° ₩	1°11'11	greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	1975 Jul 27 03:24 1975 Aug 06 05:21 1975 Aug 23 19:55 1975 Aug 27 13:11 1975 Aug 27 08:25 1975 Aug 27 22:13 1975 Aug 30 20:46 1975 Sep 02 15:34 1975 Sep 18 01:46 1975 Sep 28 22:13 1975 Oct 04 05:19	9° m 53'59 11° m 42'47 5° m 55'20 3° m 38'52 3° m 46'16 3° m 24'49 1° m 36'32 30° R A 25° A 25'42 27° A 35'24 0° m	-8°25'34 8°25'15 0.28675 AU

	107531 00 10 50	00.0			107011 00 00 00		
	1975 Nov 09 13:52	0∘ 亚			1978 May 22 02:03	0°©	
	1975 Dec 07 00:29	0°M			1978 Jun 16 06:19	$\Omega^{\circ}\Omega$	
	1976 Jan 01 12:14	0° ∡			1978 Jul 12 02:14	0° m/y	
	1976 Jan 26 06:09	0°る		desc. node	1978 Aug 06 06:26	27° m 59'56	
desc. node	1976 Feb 19 11:25	29° る 43'19			1978 Aug 08 03:08	0° 亞	46907102
	1976 Feb 19 16:50	0° ≫		evening max el	1978 Aug 29 19:54	22° £ 11'17	46°07'02
	1976 Mar 15 00:59	0° Υ			1978 Sep 07 05:07	0°M	4 0
	1976 Apr 08 08:56			greatest brilliancy	1978 Oct 09 02:50	21°M17'19	-4.8m
	1976 May 02 17:49	0° と 11° と 43'16		retrograde	1978 Oct 18 03:58	22°M48'20 18°M09'45	
morning set	1976 May 12 06:38 1976 May 27 03:43	0° Ⅱ		evening set inferior conj	1978 Nov 02 17:42 1978 Nov 07 21:34	15°ML07'32	1015112
asc. node	1976 Jun 11 14:55	0 H 18°∏59'44		minimum elong	1978 Nov 07 21:34 1978 Nov 08 07:01	13 11607 32 14°ML53'09	
asc. Houc	1970 Juli 11 14.33	18 11 39 44		min. Earth dist.	1978 Nov 08 07:01 1978 Nov 08 16:03	14°MJ39'23	0.26903 AU
superior conj	1976 Jun 18 04:36	27° I I03'55	0°15'34	morning rise	1978 Nov 13 19:37	11°MJ38'46	0.20703 AC
minimum elong	1976 Jun 18 01:25	26° I 54'10		asc. node	1978 Nov 27 09:48	7°M21'45	
behind sun begin	1976 Jun 17 20:15	26° I 38'15	0 13 23	direct	1978 Nov 28 13:09	7°M20'09	
behind sun end	1976 Jun 18 06:36	27° I I10'05		greatest brilliancy	1978 Dec 09 12:25	9°M25'49	-4.9m
max. Earth dist.	1976 Jun 17 20:26	26° Ⅲ 38'52	1.73588 AU	greatest stimuite)	1979 Jan 07 06:38	0° ∡ 7	,
max. Dartii dist.	1976 Jun 20 13:56	0°9	1.75500710	morning max el	1979 Jan 18 06:20	10° × ⁷ 42'05	46°57'34
	1976 Jul 14 23:36	$0^{\circ}\Omega$		morning max er	1979 Feb 05 09:16	0°る	10 37 31
evening rise	1976 Jul 24 03:18	11° Ω 15'50			1979 Mar 03 17:18	0° ≈	
e vennig 1150	1976 Aug 08 08:36	0° m		desc. node	1979 Mar 18 23:28	17°≈55'40	
	1976 Sep 01 17:44	0∘ ರ ೧.ಗಿ		dese. Hode	1979 Mar 29 03:18	0° \	
	1976 Sep 26 04:17	0°M			1979 Apr 23 04:02	$0^{\circ}\Upsilon$	
desc. node	1976 Oct 01 04:20	6° ™ 07'40			1979 May 18 00:29	0°8	
dese. node	1976 Oct 20 17:22	0° ∡ 7			1979 Jun 11 18:13	0°II	
	1976 Nov 14 10:42	ි ව°0			1979 Jul 06 09:02	0°9	
	1976 Dec 09 12:53	0° ≈		asc. node	1979 Jul 10 02:43	4°934'06	
	1977 Jan 04 13:01	0°) €		morning set	1979 Jul 20 02:50	16°549'32	
asc. node	1977 Jan 22 07:29	19° ₩ 09'46			1979 Jul 30 20:07	0°N	
evening max el	1977 Jan 24 12:43	21°) 26'03	47°00'17	max. Earth dist.	1979 Aug 22 05:51	27° £ 39′23	1.72917 AU
	1977 Feb 02 05:54	0°Υ			1979 Aug 24 03:16	0° m)	
greatest brilliancy	1977 Mar 05 14:57	22° Y 29'20	-4.8m		C	•	
retrograde	1977 Mar 16 03:01	24° Y 33'28		superior conj	1979 Aug 25 12:38	1° m 43'21	1°21'51
evening set	1977 Apr 02 10:24	18° Y '44'02		minimum elong	1979 Aug 25 08:02	1° m)29'05	1°21'47
inferior conj	1977 Apr 06 06:29	16° Ƴ 20′29	7°31'22	-	1979 Sep 17 07:21	0° ت	
minimum elong	1977 Apr 06 15:17	16° Y 06′35	7°30'01	evening rise	1979 Oct 01 11:57	17° ≏ 39'40	
min. Earth dist.	1977 Apr 06 02:01	16° Ƴ 27'33	0.28296 AU		1979 Oct 11 09:48	0° M .	
morning rise	1977 Apr 10 20:30	13° Y 31'06		desc. node	1979 Oct 29 16:14	22°M45'23	
direct	1977 Apr 27 09:49	8° Y 14'45			1979 Nov 04 11:50	0° ∡ ¹	
greatest brilliancy	1977 May 06 22:35	9° Y 54'56	-4.8m		1979 Nov 28 14:20	0°ರ	
desc. node	1977 May 13 20:50	12° Y 55'28			1979 Dec 22 18:34	0° ≈	
	1977 Jun 06 06:10	0°8			1980 Jan 16 03:37	0° ∀	
morning max el	1977 Jun 15 07:23	8° 8 20'44	45°47'45		1980 Feb 09 23:39	0 ° $\mathbf{\Upsilon}$	
	1977 Jul 06 15:09	$\Pi^{\circ}0$		asc. node	1980 Feb 19 19:27	11° Y 36'24	
	1977 Aug 02 19:19	0 \circ \odot			1980 Mar 06 18:54	$_{0\circ}$ 8	
	1977 Aug 28 15:09	0 $^{\circ}$ Ω			1980 Apr 03 19:46	Π $^{\circ}0$	
asc. node	1977 Sep 04 00:29	7° Ω 35'14		evening max el	1980 Apr 05 15:45	1° Ⅱ 48'31	45°53'47
	1977 Sep 22 15:05	0° m y			1980 May 12 20:52	0 \circ \odot	
	1977 Oct 17 01:37	0∘ ত		greatest brilliancy	1980 May 13 19:26	0°922'17	-4.7m
	1977 Nov 10 03:52	0°M₊		retrograde	1980 May 24 20:10	2° © 35'09	
greatest brilliancy	1977 Nov 24 07:19	17°M43'40	-3.9m		1980 Jun 05 05:44	30°RⅡ	
	1977 Dec 04 01:49	0°⊀		evening set	1980 Jun 08 21:11	28° Ⅱ 11'17	
morning set	1977 Dec 11 13:40	9° ₹ 25'28		desc. node	1980 Jun 10 08:43	27° Ⅱ 21'17	
desc. node	1977 Dec 24 13:45	25° ∡ '47'07		inferior conj	1980 Jun 15 07:27	24° Ⅱ 20'18	
	1977 Dec 27 22:09	5°0		minimum elong	1980 Jun 15 04:53	24° Ⅱ 24'18	
	1978 Jan 20 18:29	0° ≈		min. Earth dist.	1980 Jun 15 05:53		0.28932 AU
	1070 X	10	1001112	morning rise	1980 Jun 21 12:40	20° I 35'55	
superior conj	1978 Jan 22 06:15	1°≈52'23		direct	1980 Jul 06 21:15	16° Ⅱ 03'21	4.7
minimum elong	1978 Jan 21 18:16	1°≈14'42		greatest brilliancy	1980 Jul 17 06:21	17° Ⅱ 59'08	-4.7m
max. Earth dist.	1978 Jan 24 17:51		1.71213 AU		1980 Aug 06 14:25	0°95	45051150
arraniai	1978 Feb 13 16:07	0° \ 22° ¥ 0°!57		morning max el	1980 Aug 24 19:05	15°957'26	45~51′50
evening rise	1978 Mar 04 04:33	23° ¥ 08'57 0° Ƴ		aca nada	1980 Sep 07 17:57	0° Ω	
	1978 Mar 09 16:29			asc. node	1980 Oct 01 12:19	26° Ω 03'18	
asa nada	1978 Apr 02 21:14	0°8			1980 Oct 04 23:07	0° ™	
asc. node	1978 Apr 16 17:19	17° ႘ 01'35 0° Ⅱ			1980 Oct 30 10:38	0° ル 0° 亚	
	1978 Apr 27 07:53	υц			1980 Nov 24 01:35	U IIIG	

	1980 Dec 18 06:21	0° ⊀		desc. node	1983 Jul 08 20:41	29° Ω 03'19	
	1981 Jan 11 06:48	0° ප			1983 Jul 10 05:25	0° m)	
desc. node	1981 Jan 21 01:38	12° る 14'33		greatest brilliancy	1983 Jul 24 17:39	7° m 40'37	-4.7m
	1981 Feb 04 06:07	0° ≈		retrograde	1983 Aug 03 19:44	9° ™ 29'46	
morning set	1981 Feb 26 18:52	28° ≈ 10′12		evening set	1983 Aug 21 08:24	3° Mp 46'23	
	1981 Feb 28 06:01	0°) €		inferior conj	1983 Aug 25 04:35	1° Mp 25'26	-8°20'03
	1981 Mar 24 07:43	$0^{\circ}\Upsilon$		minimum elong	1983 Aug 24 23:08	1° m 33'55	8°19'36
				min. Earth dist.	1983 Aug 25 12:59	1° mp 12'20	0.28712 AU
superior conj	1981 Apr 07 09:22	17° Y 28′20	-1°13'23		1983 Aug 27 11:44	30°RΩ	
minimum elong	1981 Apr 07 18:41	17° Υ 57'14		morning rise	1983 Aug 28 13:41	29° Ω 20'34	
max. Earth dist.	1981 Apr 10 20:39		1.72626 AU	direct	1983 Sep 15 17:22	23° Ω 11'49	
max. Lattii dist.	1981 Apr 17 12:08	0°8	1.72020 AC	greatest brilliancy	1983 Sep 15 17:22 1983 Sep 26 13:34	25° Ω 20'36	-4.8m
	•			greatest brilliancy	•		-4.8111
	1981 May 11 19:45	0°II		•	1983 Oct 05 19:35	0° m)	
asc. node	1981 May 14 05:05	2° ∏ 56'19		asc. node	1983 Oct 29 24:00	19° m 34'04	
evening rise	1981 May 15 15:18	4° ∏ 41′28		morning max el	1983 Nov 04 19:22	25° m 15'47	46°32'29
	1981 Jun 05 06:29	0			1983 Nov 09 10:52	0∘ ಹ	
	1981 Jun 29 20:20	$0^{\circ}\Omega$			1983 Dec 06 16:15	0° M ₊	
	1981 Jul 24 14:04	0° m p			1984 Jan 01 02:00	0° ∡ ¹	
	1981 Aug 18 13:44	0∘ ⊽			1984 Jan 25 18:51	0°ರ	
desc. node	1981 Sep 02 18:25	18° ≏ 01'55		desc. node	1984 Feb 18 13:34	29° る 12'53	
	1981 Sep 12 22:51	0°M			1984 Feb 19 04:52	0° ≈	
	1981 Oct 09 00:04	0° ∡ ¹			1984 Mar 14 12:35	0° ∀	
	1981 Nov 05 12:39	ි ව°0			1984 Apr 07 20:13	0° Υ	
evening max el	1981 Nov 11 01:55	5° る 40′20	47°10'52		1984 May 02 04:53	0°8	
evening max ci	1981 Dec 08 20:52	0°≈	47 10 32	morning set	1984 May 09 23:33	9° 8 33'55	
4 41 111			4.0	morning set	•		
greatest brilliancy	1981 Dec 21 13:52	6°≈53'57	-4.9m	1	1984 May 26 14:40	0°II	
asc. node	1981 Dec 24 21:40	7°≈57'42		asc. node	1984 Jun 10 16:57	18° Ⅱ 32'36	
retrograde	1981 Dec 31 19:45	8° ≈ 54'05				_	
evening set	1982 Jan 16 04:09	4°≈11'06		superior conj	1984 Jun 15 22:32	24° Ⅱ 58'13	0°12'25
min. Earth dist.	1982 Jan 20 13:48	1° ≈ 33'48	0.26783 AU	minimum elong	1984 Jun 15 19:59	24° Ⅱ 50′22	0°12'18
inferior conj	1982 Jan 21 10:06	1° ≈ 02'34	6°23'58	behind sun begin	1984 Jun 15 05:37	24° Ⅱ 06′14	
minimum elong	1982 Jan 20 23:36	1° ≈ 18'43	6°21'37	behind sun end	1984 Jun 16 10:22	25° Ⅱ 34'31	
	1982 Jan 23 02:56	30°Ŗる		max. Earth dist.	1984 Jun 15 16:12	24° Ⅱ 38'44	1.73583 AU
morning rise	1982 Jan 25 19:32	28° る 24'23			1984 Jun 20 00:48	0°ಅ	
direct	1982 Feb 10 20:38	23° る 21'39			1984 Jul 14 10:30	0°N	
greatest brilliancy	1982 Feb 19 23:30	24° る 56'53	-4 9m	evening rise	1984 Jul 21 21:56	9° Ω 11'46	
greatest similare	1982 Mar 02 11:25	0°≈	,	evening rise	1984 Aug 07 19:40	0° m)	
morning max el	1982 Apr 01 17:50	25°≈14'03	46°27'10		1984 Sep 01 05:07	0∘ ⊽	
morning max er	•	25 ≈ 1405 0° ∀	40 27 10			0 == 0°M₊	
1 1	1982 Apr 06 12:20			1 1	1984 Sep 25 16:05		
desc. node	1982 Apr 15 11:09	9°) 16′08		desc. node	1984 Sep 30 06:19	5° M ₃37'18	
	1982 May 04 12:27	0° Υ			1984 Oct 20 05:45	0° ∡ ¹	
	1982 May 30 21:02	0°8			1984 Nov 13 23:54	0°ಕ	
	1982 Jun 25 12:13	Π $^{\circ}0$			1984 Dec 09 03:26	0° ≈	
	1982 Jul 20 16:21	0			1985 Jan 04 06:23	0° ∀	
asc. node	1982 Aug 06 14:37	20°526'33		asc. node	1985 Jan 21 09:40	18° ∺ 20'17	
	1982 Aug 14 11:09	$0^{\circ}\Omega$		evening max el	1985 Jan 22 02:29	19°) 03′11	47°02'12
	1982 Sep 07 21:38	o° my			1985 Feb 02 08:29	0 ° \mathbf{Y}	
morning set	1982 Sep 26 21:31	23° m 33'46		greatest brilliancy	1985 Mar 03 07:46	20° Ƴ 14'31	-4.9m
Č	1982 Oct 02 01:32	0∘ <u>v</u>		retrograde	1985 Mar 13 18:18	22° Y 17'46	
	1982 Oct 26 01:19	0°M		evening set	1985 Mar 31 04:42	16° Y ′24'32	
max. Earth dist.	1982 Nov 01 22:13	8°M36'50	1.71491 AU	inferior conj	1985 Apr 03 22:00	14° Υ 05'18	7°42'02
max. Earth dist.	1902 NOV 01 22.13	8 1163030	1./1491 AU	·	•		7°40'49
	100231 04 02 02	110 m 10100	0040122	minimum elong	1985 Apr 04 06:25	13° Y 52′00	
superior conj	1982 Nov 04 02:02	11°M19'20		min. Earth dist.	1985 Apr 03 17:17	14° Y 12'47	0.28260 AU
minimum elong	1982 Nov 04 12:02	11°M50'42	0°49'08	morning rise	1985 Apr 08 08:24	11° Y 21'03	
	1982 Nov 18 23:07	0° ∡ ¹		direct	1985 Apr 25 00:09	6° Y 00'06	
desc. node	1982 Nov 26 04:01	9° ∡ 02'58		greatest brilliancy	1985 May 04 13:14	7° Ƴ 40'12	-4.8m
	1982 Dec 12 20:20	0°る		desc. node	1985 May 12 22:50	11° Ƴ 28'18	
evening rise	1982 Dec 14 18:29	2° る 24'56			1985 Jun 06 08:53	9° 8	
-	1983 Jan 05 17:58	0° ≈		morning max el	1985 Jun 12 21:56	6° 8 06'10	45°48'24
	1983 Jan 29 17:31	0°) €		Č	1985 Jul 06 08:01	0°II	
	1983 Feb 22 21:35	0°Υ			1985 Aug 02 09:10	0° ©	
asc. node	1983 Mar 19 07:24	29° Υ 52'33			1985 Aug 28 03:39	0° U	
use. Houc	1983 Mar 19 09:51	0° 8		asc. node	1985 Sep 03 02:31	7° Ω 04'39	
				asc. nout			
	1983 Apr 13 11:26	0° I I			1985 Sep 22 02:53	0° m)	
	1983 May 09 10:56	0°©			1985 Oct 16 13:04	0∘ 亚	
	1983 Jun 06 06:04	$0^{\circ}\Omega$			1985 Nov 09 15:08	0° M ₊	
evening max el	1983 Jun 16 07:15	9° Ω 57'08	45°23'33	greatest brilliancy	1985 Nov 25 08:57	19° M 44'14	-3.9m

	1985 Dec 03 13:00	0° ∡ ¹		evening set	1988 Jun 06 14:07	26° Ⅲ 02'58	
morning set	1985 Dec 09 00:23	6° ₹ 53'02		desc. node	1988 Jun 09 10:47	24° Ⅲ 23′50	
desc. node	1985 Dec 23 15:51	25° ∡ 18'37		inferior conj	1988 Jun 12 24:00	22° Ⅱ 12'10	-0°50'15
	1985 Dec 27 09:17	7°0		minimum elong	1988 Jun 12 22:09	22° Ⅱ 15′03	
		• •		min. Earth dist.	1988 Jun 12 22:10	22° I 15'02	0.28918 AU
superior conj	1986 Jan 19 16:05	29° る 17'32	0°58'50	morning rise	1988 Jun 19 06:23	18° Ⅱ 26'26	0.20710710
				-		13° I I55'32	
minimum elong	1986 Jan 19 04:06	28° ⋜ 39'53	0-38/24	direct	1988 Jul 04 14:09		4.7
	1986 Jan 20 05:36	0° ≈		greatest brilliancy	1988 Jul 14 21:44	15° Ⅱ 50'30	-4./m
max. Earth dist.	1986 Jan 21 20:19	2°≈01'40	1.71185 AU		1988 Aug 06 23:24	0 \circ	
	1986 Feb 13 03:11	0°) €		morning max el	1988 Aug 22 11:46	13° © 49'43	45°50'44
evening rise	1986 Mar 01 16:02	20°) (40′36			1988 Sep 07 11:37	$0 {\circ} \Omega$	
	1986 Mar 09 03:32	0° Y		asc. node	1988 Sep 30 14:18	25° Ω 27'50	
	1986 Apr 02 08:19	8°			1988 Oct 04 13:15	0° m)	
asc. node	1986 Apr 15 19:17	16° 8 33'19			1988 Oct 29 23:20	0∘ ত	
	1986 Apr 26 19:10	$\Pi^{\circ}0$			1988 Nov 23 13:34	0° M .	
	1986 May 21 13:46	0°©			1988 Dec 17 17:56	0° ∡ ⊓	
	1986 Jun 15 18:52	$0^{\circ}\Omega$			1989 Jan 10 18:08	° ਨ ਹ∘ਤ	
	1986 Jul 11 16:23	0° mp		desc. node	1989 Jan 20 03:46	11° ろ 46'08	
4 4-		-		desc. Hode			
desc. node	1986 Aug 05 08:33	27° m 19'22			1989 Feb 03 17:15	0° ≈	
	1986 Aug 07 20:46	0∘ ⊽		morning set	1989 Feb 24 05:58	25°≈40'45	
evening max el	1986 Aug 27 08:52	19° Ω 50'15	46°04'43		1989 Feb 27 16:59	0° ∀	
	1986 Sep 07 10:15	0°M₊			1989 Mar 23 18:32	0° Y	
greatest brilliancy	1986 Oct 06 15:08	18°M52'32	-4.8m				
retrograde	1986 Oct 15 16:33	20°M23'49		superior conj	1989 Apr 04 23:29	15° Ƴ 09'50	-1°15'12
evening set	1986 Oct 31 09:14	15°M40'22		minimum elong	1989 Apr 05 08:27	15° Ƴ 37'39	1°14'59
inferior conj	1986 Nov 05 10:16	12°M42'11	-5°04'46	max. Earth dist.	1989 Apr 08 13:57	19° Ƴ 37'56	1.72573 AU
minimum elong	1986 Nov 05 20:06	12°M27'14	5°02'11		1989 Apr 16 22:52	0°B	
min. Earth dist.	1986 Nov 06 05:37	12°M12'46	0.26964 AU		1989 May 11 06:28	Π°	
morning rise	1986 Nov 11 06:18	9°M16'27		evening rise	1989 May 13 08:02	2° I 32'25	
direct	1986 Nov 26 02:46	4°M53'38		asc. node	1989 May 13 07:13	2° П 29'53	
asc. node		4°M53'49		asc. nouc	1989 Jun 04 17:17	0°95	
	1986 Nov 26 11:50		4.0				
greatest brilliancy	1986 Dec 07 03:01	7°M10'48	-4.9m		1989 Jun 29 07:21	0° N	
	1987 Jan 07 10:20	0° ∡			1989 Jul 24 01:31	0° m	
morning max el	1987 Jan 15 20:58	8° ∡ 19'13	46°57'45		1989 Aug 18 01:58	0∘ ত	
	1987 Feb 05 03:03	0°る		desc. node	1989 Sep 01 20:22	17° ≏ 29'31	
	1987 Mar 03 07:55	0° ≈			1989 Sep 12 12:22	0° M	
desc. node	1987 Mar 18 01:23	17° ≈ 21′09			1989 Oct 08 16:00	0° ∡ ¹	
	1987 Mar 28 16:20	0° ∀			1989 Nov 05 10:13	0° ರ	
	1987 Apr 22 16:07	0° Y		evening max el	1989 Nov 08 16:49	3° ⋜ 19'13	47°09'19
	1987 May 17 11:56	0°8			1989 Dec 10 04:54	0° ≈	
	1987 Jun 11 05:15	$\Pi^{\circ}0$		greatest brilliancy	1989 Dec 19 03:20	4° ≈ 26'19	-4.9m
	1987 Jul 05 19:50	0 \circ \odot		asc. node	1989 Dec 23 23:51	5° ≈ 51'17	
asc. node	1987 Jul 09 04:52	4° © 07'45		retrograde	1989 Dec 29 08:50	6° ≈ 25'30	
morning set	1987 Jul 17 20:59	14°5945'05		evening set	1990 Jan 13 13:36	1° ≈ 48'14	
morning set	1987 Jul 30 06:49	0°Ω		evening set	1990 Jan 16 15:23	30°Rる	
may Earth dist			1.72964 AU	min Earth diat	1990 Jan 18 02:54	29°る05'40	0.26734 AU
max. Earth dist.	1987 Aug 20 02:12	23 6640 37	1.72904 AU	min. Earth dist.			
	1007 4 22 06 25	200 026120	1020157	inferior conj	1990 Jan 18 22:42	28° る 35'10	6°06'56
superior conj	1987 Aug 23 06:25	29° Ω 36'30		minimum elong	1990 Jan 18 12:14	28°る51'17	6°04'30
minimum elong	1987 Aug 23 01:14	29° Ω 20′27	1°20'52	morning rise	1990 Jan 23 11:21	25° る 52'23	
	1987 Aug 23 14:00	0° Mp		direct	1990 Feb 08 09:16	20° る 55'16	
	1987 Sep 16 18:12	0∘ ত		greatest brilliancy	1990 Feb 17 12:26	22° る 30'41	-4.9m
evening rise	1987 Sep 29 03:13	15° ≏ 23'47			1990 Mar 03 17:52	0° ≈	
	1987 Oct 10 20:49	0°M		morning max el	1990 Mar 30 06:41	22° ≈ 50'46	46°28'40
desc. node	1987 Oct 28 18:12	22°M16'42			1990 Apr 06 09:13	0° ∀	
	1987 Nov 03 23:04	0° ∡ ¹		desc. node	1990 Apr 14 13:13	8°) 32′16	
	1987 Nov 28 01:51	8°0			1990 May 04 03:52	0° Υ	
	1987 Dec 22 06:29	0° ≈			1990 May 30 10:13	0° ႘	
	1988 Jan 15 16:04	0°) €			1990 Jun 25 00:14	0°II	
	1988 Feb 09 13:04	0°Υ			1990 Jul 20 03:41	0ಂಣ ೧ H	
asa nada		0 γ 11° Υ 01'15		ase node		19°959'20	
asc. node	1988 Feb 18 21:27			asc. node	1990 Aug 05 16:40		
	1988 Mar 06 10:21	0°8	45056104		1990 Aug 13 22:05	0° N	
evening max el	1988 Apr 03 08:18	29° 8 38'22	45°56'04		1990 Sep 07 08:21	0° m)	
	1988 Apr 03 17:07	Π $^{\circ}0$		morning set	1990 Sep 24 13:32	21° m)21'01	
greatest brilliancy	1988 May 11 11:40	28° Ⅱ 13'44	-4.7m		1990 Oct 01 12:13	0∘ ⊽	
	1988 May 17 16:26	0 \circ \odot			1990 Oct 25 12:03	0° M	
retrograde	1988 May 22 13:26	0° 5 27'14		max. Earth dist.	1990 Oct 30 05:53	5°M56'42	1.71538 AU
	1988 May 27 07:36	30°R Ⅱ					

superior conj	1990 Nov 01 15:15	8°M56'30	0°52'29	min. Earth dist.	1993 Apr 01 08:04	11° Y ′57'20	0.28224 AU
minimum elong	1990 Nov 02 01:27	9°M28'28	0°52'05	morning rise	1993 Apr 05 19:59	9° Υ 10'27	
C	1990 Nov 18 09:58	0°⊀		direct	1993 Apr 22 14:13	3° Ƴ 44'27	
desc. node	1990 Nov 25 06:10	8° ₹ 35'33		greatest brilliancy	1993 May 02 03:36	5° Y 24'50	-4.8m
evening rise	1990 Dec 12 04:57	29° ₹ 52'35		desc. node	1993 May 12 00:58	10° Y ′04′02	
	1990 Dec 12 07:18	0°ಕ			1993 Jun 06 10:03	0° 8	
	1991 Jan 05 05:03	0° ≈		morning max el	1993 Jun 10 12:54	3° 8 52'53	45°49'19
	1991 Jan 29 04:44	0°) €			1993 Jul 06 00:21	0°П	
	1991 Feb 22 09:02	0°Υ			1993 Aug 01 22:38	0°©	
asc. node	1991 Mar 18 09:23	29° Y 22'34		1	1993 Aug 27 15:48	0°N	
	1991 Mar 18 21:45	0°B 0°B		asc. node	1993 Sep 02 04:27	6° Ω 34'42	
	1991 Apr 13 00:10 1991 May 09 01:28	0. о п			1993 Sep 21 14:22 1993 Oct 16 00:13	0ം ⊽ 0ംൂൂ	
	1991 Jun 06 01:16	0°Ω			1993 Nov 09 02:07	0° ™	
evening max el	1991 Jun 13 21:50	7° Ω 43'55	45°23'25	greatest brilliancy	1993 Nov 25 21:54	21°ML06'02	-3 9m
desc. node	1991 Jul 07 22:50	27° Ω 52'46	45 25 25	greatest orimaney	1993 Dec 02 23:54	0° √	3.7111
acce. noue	1991 Jul 11 05:06	0° my		morning set	1993 Dec 06 11:47	4° х ⁷ 23'44	
greatest brilliancy	1991 Jul 22 08:14	5° m 29'31	-4.7m	desc. node	1993 Dec 22 17:57	24° × 751'03	
retrograde	1991 Aug 01 10:35	7° m 19'26			1993 Dec 26 20:09	0°ප	
evening set	1991 Aug 18 21:03	1° mp 40'03					
	1991 Aug 21 15:06	30°R Ω		superior conj	1994 Jan 17 02:04	26° る 43'52	-0°55'50
inferior conj	1991 Aug 22 20:21	29° Ω 14'34	-8°13'43	minimum elong	1994 Jan 16 14:13	26° පි 06'39	0°55'24
minimum elong	1991 Aug 22 14:15	29° Ω 24'04	8°13'10	max. Earth dist.	1994 Jan 19 01:44	29° る 13'42	1.71168 AU
min. Earth dist.	1991 Aug 23 04:14	29° Ω 02'17	0.28745 AU		1994 Jan 19 16:28	0° ≈	
morning rise	1991 Aug 26 07:14	27° Ω 06′54			1994 Feb 12 14:04	0°) €	
direct	1991 Sep 13 08:56	21° Ω 00′25		evening rise	1994 Feb 27 03:22	18° ¥ 12'11	
greatest brilliancy	1991 Sep 24 05:37	23° Ω 09'01	-4.8m		1994 Mar 08 14:28	0° Υ	
	1991 Oct 06 21:15	0° m			1994 Apr 01 19:20	0°8	
asc. node	1991 Oct 29 02:07	18° Mp 42'06		asc. node	1994 Apr 14 21:23	16° 8 05'39	
morning max el	1991 Nov 02 09:07	22° m 55'46	46°30'56		1994 Apr 26 06:24	0°II	
	1991 Nov 09 06:36	0∘ 亚			1994 May 21 01:26	0° ©	
	1991 Dec 06 07:21	0° M 0° ∡			1994 Jun 15 07:23	0° N	
	1991 Dec 31 15:19 1992 Jan 25 07:14	0° ⊼ .		desc. node	1994 Jul 11 06:33	0°順 26°m 28'22	
desc. node	1992 Feb 17 15:32	0 る 28° る 42'32		desc. Hode	1994 Aug 04 10:30 1994 Aug 07 14:36	26° M 38′23 0° <u>₽</u>	
desc. Hode	1992 Feb 17 15:32 1992 Feb 18 16:40	28 ⊙ 42 32		evening max el	1994 Aug 07 14:30 1994 Aug 24 22:52	0 <u>=</u> 17° £ 32'30	46°02'32
	1992 Mar 13 23:57	0°) €		evening max er	1994 Sep 07 17:12	0°M	40 02 32
	1992 Apr 07 07:16	0° Υ		greatest brilliancy	1994 Oct 04 03:13	16°M28'53	-4.8m
	1992 May 01 15:41	0°8		retrograde	1994 Oct 13 05:41	18°ML00'39	
morning set	1992 May 07 16:10	7° 8 24'28		evening set	1994 Oct 29 01:07	13° M ₊12'27	
C	1992 May 26 01:18	$\Pi^{\circ}0$		inferior conj	1994 Nov 02 23:12	10°M18'11	-5°23'31
asc. node	1992 Jun 09 19:05	18° Ⅱ 06′39		minimum elong	1994 Nov 03 09:21	10°ML02'46	
				min. Earth dist.	1994 Nov 03 18:58	9° ™ 48'09	0.27023 AU
superior conj	1992 Jun 13 16:30	22° ∏ 53'34	0°09'16	morning rise	1994 Nov 08 16:58	6° ™ 55'45	
minimum elong	1992 Jun 13 14:35	22° Ⅱ 47'40	0°09'11	direct	1994 Nov 23 16:57	2°M28'47	
behind sun begin	1992 Jun 12 19:57	21° Ⅱ 50′27		asc. node	1994 Nov 25 13:57	2°M33'03	
behind sun end	1992 Jun 14 09:13	23° ∏ 44′53		greatest brilliancy	1994 Dec 04 17:02	4° ጤ 46'19	-4.9m
max. Earth dist.	1992 Jun 13 11:35	22° II 38'26	1.73575 AU	. ,	1995 Jan 07 12:07	0° ⊼ ¹	46057140
	1992 Jun 19 11:22	0°©		morning max el	1995 Jan 13 11:55	5° ≯ '58'05	46°57'49
	1992 Jul 13 21:07	0° Ω			1995 Feb 04 20:12	0°≈	
evening rise	1992 Jul 19 16:53 1992 Aug 07 06:25	7° Ω 09'43 0° m		desc. node	1995 Mar 02 22:10 1995 Mar 17 03:27	0 ≈ 16°≈47'44	
	1992 Aug 31 16:09	0∘ ত الله		uese. Houe	1995 Mar 28 05:10	0°) €	
	1992 Sep 25 03:31	0° m			1995 Apr 22 04:07	0° Υ	
desc. node	1992 Sep 29 08:23	5°M08'22			1995 May 16 23:22	0°8	
acce. noue	1992 Oct 19 17:47	0° ∡ 7			1995 Jun 10 16:18	0°II	
	1992 Nov 13 12:48	0°⋜			1995 Jul 05 06:39	0° ©	
	1992 Dec 08 17:49	0° ≈		asc. node	1995 Jul 08 06:51	3°540'51	
	1993 Jan 03 23:54	0°) €		morning set	1995 Jul 15 14:55	12° © 39'56	
evening max el	1993 Jan 19 16:06	16°) 40′12	47°03'49		1995 Jul 29 17:32	$0^{\circ}\Omega$	
asc. node	1993 Jan 20 11:39	17° ∺ 29'49		max. Earth dist.	1995 Aug 17 21:49	23° Ω 39'47	1.73005 AU
	1993 Feb 02 12:37	$0^{\circ}\Upsilon$					
greatest brilliancy	1993 Feb 28 23:51	17° Y 58'14	-4.9m	superior conj	1995 Aug 21 00:04	27° Ω 29'25	1°19'55
retrograde	1993 Mar 11 09:28	20° Y ′01′23		minimum elong	1995 Aug 20 18:21		1°19'50
evening set	1993 Mar 28 22:31	14° Υ 04'11			1995 Aug 23 00:43	0° m)	
inferior conj minimum elong	1993 Apr 01 13:11	11° Υ 49'15	7°51'58		1995 Sep 16 05:01	0° ⊽	
	1993 Apr 01 21:09	11° Ƴ 36'42	/~50.56	evening rise	1995 Sep 26 18:35	13° ≏ 08'21	

	1995 Oct 10 07:48	0° M .		desc. node	1998 Apr 13 15:19	7° ¥ 48'34	
desc. node	1995 Oct 27 20:21	21°M48'34		dese. Hode	1998 May 03 19:16	0° Υ	
desc. node	1995 Nov 03 10:18	0°×7			1998 May 29 23:32	%8 0°8	
	1995 Nov 27 13:23	°ੇਂ ਰ°ੇਂ			1998 Jun 24 12:27	0°II	
	1995 Dec 21 18:23	0° ≈			1998 Jul 19 15:17	0°©	
	1996 Jan 15 04:30	0° ∺		asc. node	1998 Aug 04 18:38	19° © 30'55	
	1996 Feb 09 02:30	0° Υ		asc. Houc	1998 Aug 13 09:19	0°Ω	
asc. node	1996 Feb 17 23:28	10° Υ 26'05			1998 Sep 06 19:24	0° m)	
asc. node	1996 Mar 06 02:01	0° 8		morning set	1998 Sep 22 05:18	19° Mp 06'29	
avanina may al		27° 8 27'41	45°58'03	morning set	1998 Sep 30 23:13	0° ⊽	
evening max el	1996 Apr 01 00:47	27 O 2741 0° I	43 38 03			0°M	
	1996 Apr 03 15:26		4.7	Danth 4:-4	1998 Oct 24 23:06		1 71502 ATT
greatest brilliancy	1996 May 09 04:18	26° Ⅱ 04'43	-4.7m	max. Earth dist.	1998 Oct 27 15:53	3°M22'57	1.71582 AU
retrograde	1996 May 20 06:08	28° Ⅱ 17'53			1000 0 4 20 04 22	60 m 22122	0055120
evening set	1996 Jun 04 07:00	23° I I53'18		superior conj	1998 Oct 30 04:22	6°M32'32	0°55'20
desc. node	1996 Jun 08 12:53	21° II 23'03	0020124	minimum elong	1998 Oct 30 14:42	7°M04'53	0°54'56
inferior conj	1996 Jun 10 16:19	20° Ⅱ 02'46			1998 Nov 17 21:06	0° ₹	
minimum elong	1996 Jun 10 15:11	20° Ⅲ 04'32		desc. node	1998 Nov 24 08:11	8° ∡ 06'51	
min. Earth dist.	1996 Jun 10 14:24	20° Ⅲ 05'46	0.28906 AU	evening rise	1998 Dec 09 15:26	27° ∡ 19'34	
morning rise	1996 Jun 16 23:40	16° Ⅱ 15'39			1998 Dec 11 18:33	0°る	
direct	1996 Jul 02 06:51	11° Ⅱ 46'33			1999 Jan 04 16:25	0° ≈	
greatest brilliancy	1996 Jul 12 12:52	13° Ⅱ 40′20	-4.7m		1999 Jan 28 16:17	0° ℋ	
	1996 Aug 07 06:15	0			1999 Feb 21 20:49	0 ° Υ	
morning max el	1996 Aug 20 03:28	11° © 38'57	45°49'48	asc. node	1999 Mar 17 11:32	28° Y ′52'03	
	1996 Sep 07 05:07	$0 {\circ} \Omega$			1999 Mar 18 09:59	9° 8	
asc. node	1996 Sep 29 16:29	24° Ω 52'46			1999 Apr 12 13:17	Π $^{\circ}0$	
	1996 Oct 04 03:22	O° Mp			1999 May 08 16:29	0 \circ \odot	
	1996 Oct 29 12:02	0० ⊽			1999 Jun 05 21:25	$0^{\circ}\Omega$	
	1996 Nov 23 01:34	0°M		evening max el	1999 Jun 11 11:54	5° Ω 28'36	45°23'18
	1996 Dec 17 05:34	0° ∡ ¹		desc. node	1999 Jul 07 00:44	26° Ω 38'36	
	1997 Jan 10 05:32	0°రె			1999 Jul 12 15:18	o°mp	
desc. node	1997 Jan 19 05:41	11° る 16'43		greatest brilliancy	1999 Jul 19 22:09	3° m/ 16'25	-4.7m
	1997 Feb 03 04:28	0° ≈		retrograde	1999 Jul 30 01:42	5° m 07'48	
morning set	1997 Feb 21 17:16	23°≈11'32			1999 Aug 15 14:12	30° ₽ Ω	
•	1997 Feb 27 04:01	0°) €		evening set	1999 Aug 16 09:21	29° Ω 32'18	
	1997 Mar 23 05:26	$_{0}$ $^{\circ}$ γ		inferior conj	1999 Aug 20 11:58	27° Ω 02'08	-8°06'36
				minimum elong	1999 Aug 20 05:14	27° Ω 12'36	
superior conj	1997 Apr 02 13:45	12° Y 51'24	-1°16'52	min. Earth dist.	1999 Aug 20 19:15	26° Ω 50'48	0.28782 AU
minimum elong	1997 Apr 02 22:18	13° Ƴ 17'55	1°16'41	morning rise	1999 Aug 24 00:52	24° Ω 51'30	
max. Earth dist.	1997 Apr 06 09:07		1.72520 AU	direct	1999 Sep 11 00:23	18° Ω 47'17	
	1997 Apr 16 09:43	0°8		greatest brilliancy	1999 Sep 21 21:50	20°Ω56'14	-4.8m
	1997 May 10 17:20	0°II		greatest stilliane,	1999 Oct 07 16:51	0° m)	
evening rise	1997 May 11 00:42	0° П 22'38		asc. node	1999 Oct 28 04:11	17° m 49'32	
asc. node	1997 May 12 09:18	2° I I02'54		morning max el	1999 Oct 30 23:35	20° m/36'12	46°29'30
ase. Houe	1997 Jun 04 04:18	0°95		morning max cr	1999 Nov 09 02:19	0° <u>م</u>	40 27 30
	1997 Jun 28 18:38	$0^{\circ}\Omega$			1999 Dec 05 22:41	0° ™	
	1997 Jul 23 13:16	0° m			1999 Dec 31 04:54	0° ⊼	
	1997 Aug 17 14:31	0∘ ʊ 0 ıı⁄ı			2000 Jan 24 19:52	ੈ ਨ ਹ	
desc. node	1997 Aug 31 22:26	0 — 16° ≏ 56'37		desc. node	2000 Jan 24 17:32 2000 Feb 16 17:35	28° る 11'38	
desc. node	1997 Sep 12 02:17	0° ™		dese. Hode	2000 Feb 18 04:43	20° ≈	
	1997 Oct 08 08:25	0° ⊼ ¹			2000 Mar 13 11:36	0° ∺	
	1997 Oct 08 08:23 1997 Nov 05 08:50	°ੇ ਨ			2000 Mar 13 11:30 2000 Apr 06 18:37	0° Υ	
evening max el	1997 Nov 06 06:37	0° る 54'45	47°07'46		2000 Apr 00 18:37 2000 May 01 02:49	%8 0°8	
evening max er	1997 Dec 12 04:39	0°≈	4/ 0/40	mamina aat	2000 May 05 08:46	5° 8 13'45	
		0 ∞ 1°≈58'42	4.0	morning set	•	0°Ⅱ	
greatest brilliancy	1997 Dec 16 17:22		-4.9111	4-	2000 May 25 12:15	0 Ⅱ 17°Ⅱ39'17	
asc. node	1997 Dec 23 01:51	3°≈38'57 3°≈56'17		asc. node	2000 Jun 08 21:04	17 Д3917	
retrograde	1997 Dec 26 21:21			aumanian aani	2000 Jun 11 10:21	200 ™ 40!01	0006107
ovening set	1998 Jan 09 21:03	30°Ŗる 20°₹24'24		superior conj	2000 Jun 11 10:31	20°∏48'01	0°06'07
evening set	1998 Jan 10 23:14	29°₹24'24	0.26600 ATT	minimum elong	2000 Jun 11 09:15	20° ∏ 44'07	0°06'03
min. Earth dist.	1998 Jan 15 16:26	26°₹36'18	0.26688 AU	behind sun begin	2000 Jun 10 12:07	19° ∏ 39'13	
inferior conj		26° る 07'14	5°49'11	behind sun end	2000 Jun 12 06:22 2000 Jun 11 07:54	21° Ⅱ 49'02	1 72500 411
minimum elong	1998 Jan 16 11:18	260=23110	5016120				
•	1998 Jan 16 00:58	26° ♂ 23'10	5°46'39	max. Earth dist.		20° Ⅱ 39'59	1.73566 AU
morning rise	1998 Jan 16 00:58 1998 Jan 21 03:08	23° る 19'46	5°46'39	max. Earth dist.	2000 Jun 18 22:15	0∘જી	1.73300 AU
morning rise direct	1998 Jan 16 00:58 1998 Jan 21 03:08 1998 Feb 05 21:26	23°පි19'46 18°පි28'03			2000 Jun 18 22:15 2000 Jul 13 08:02	0 $_{\circ}$ \mathfrak{V}	1.73300 AU
morning rise	1998 Jan 16 00:58 1998 Jan 21 03:08 1998 Feb 05 21:26 1998 Feb 15 02:03	23°ප19'46 18°ප28'03 20°ප04'22		evening rise	2000 Jun 18 22:15 2000 Jul 13 08:02 2000 Jul 17 11:57	0°© 0°Ω 5°Ω07'05	1.73300 AU
morning rise direct greatest brilliancy	1998 Jan 16 00:58 1998 Jan 21 03:08 1998 Feb 05 21:26 1998 Feb 15 02:03 1998 Mar 04 16:14	23° ට 19'46 18° ට 28'03 20°ට04'22 0°≈	-4.9m		2000 Jun 18 22:15 2000 Jul 13 08:02 2000 Jul 17 11:57 2000 Aug 06 17:32	0°5 0°A 5°A07'05 0°M	1.73300 AU
morning rise direct	1998 Jan 16 00:58 1998 Jan 21 03:08 1998 Feb 05 21:26 1998 Feb 15 02:03	23°ප19'46 18°ප28'03 20°ප04'22	-4.9m		2000 Jun 18 22:15 2000 Jul 13 08:02 2000 Jul 17 11:57	0°© 0°Ω 5°Ω07'05	1.73300 AU

desc. node	2000 Sep 28 10:29	4°M38'07			2003 May 16 10:58	$0^{\circ}S$	
	2000 Oct 19 06:18	0° ∡ ¹			2003 Jun 10 03:32	Π $^{\circ}0$	
	2000 Nov 13 02:14	0°ರ			2003 Jul 04 17:39	0 \circ \odot	
	2000 Dec 08 08:48	0° ≈		asc. node	2003 Jul 07 08:53	3° 5 13'28	
	2001 Jan 03 18:14	0°) €		morning set	2003 Jul 13 09:02	10° © 34'52	
evening max el	2001 Jan 17 06:09	14°){ 17'16	47°05'36	. 8	2003 Jul 29 04:25	$0^{\circ}\Omega$	
asc. node	2001 Jan 19 13:39	16°) (37'30	47 03 30	max. Earth dist.	2003 Aug 15 16:06	21° Ω 34'19	1.73042 AU
asc. node	2001 Feb 02 19:14	0° Υ		max. Lartii dist.	2003 Aug 13 10.00	21 063417	1.73042 AO
		15° Υ 39'55	4.0		2002 A 10 10-05	250 (22102	1010147
greatest brilliancy	2001 Feb 26 15:12		-4.9m	superior conj	2003 Aug 18 18:05	25° Ω 23'02	
retrograde	2001 Mar 09 01:07	17° Y 43'46		minimum elong	2003 Aug 18 11:53	25° Ω 03'53	1°18'41
evening set	2001 Mar 26 16:11	11° Ƴ 42'31			2003 Aug 22 11:36	0° m ∕	
inferior conj	2001 Mar 30 04:17	9° Ƴ 31'43	8°01'17		2003 Sep 15 15:58	0∘ ⊽	
minimum elong	2001 Mar 30 11:43	9° Ƴ 19'59	8°00'24	evening rise	2003 Sep 24 10:22	10° ≙ 53'51	
min. Earth dist.	2001 Mar 29 22:20	9° Ƴ 41'04	0.28187 AU		2003 Oct 09 18:56	0° M	
morning rise	2001 Apr 03 07:29	6° Ƴ 58'33		desc. node	2003 Oct 26 22:22	21°ML19'37	
direct	2001 Apr 20 04:34	1° Y 27'23			2003 Nov 02 21:42	0° ∡ ¹	
greatest brilliancy	2001 Apr 29 17:22	3° Ƴ 07'39	-4.8m		2003 Nov 27 01:07	5°0	
desc. node	2001 May 11 03:00	8° Υ 41'20			2003 Dec 21 06:32	0° ≈	
dese. Hode	2001 Jun 06 10:25	0°8			2004 Jan 14 17:16	0° ∺	
			45050110			0°Υ	
morning max el	2001 Jun 08 04:41	1° 8 40'35	45-50-18		2004 Feb 08 16:20		
	2001 Jul 05 16:44	0°Щ		asc. node	2004 Feb 17 01:36	9° Y 50′16	
	2001 Aug 01 12:18	0			2004 Mar 05 18:12	$0^{\circ}S$	
	2001 Aug 27 04:12	$0 {\circ} \Omega$		evening max el	2004 Mar 29 16:40	25° 8 14'45	46°00'16
asc. node	2001 Sep 01 06:39	6° Ω 04'47			2004 Apr 03 14:57	Π $^{\circ}0$	
	2001 Sep 21 02:09	O° Mp		greatest brilliancy	2004 May 06 21:39	23° Ⅱ 56′09	-4.7m
	2001 Oct 15 11:42	0∘ ⊽		retrograde	2004 May 17 22:28	26° Ⅱ 08'18	
	2001 Nov 08 13:28	0°M		evening set	2004 Jun 02 00:07	21° Ⅱ 43'16	
greatest brilliancy	2001 Nov 26 05:38	22°M10'09	-3.9m	desc. node	2004 Jun 07 14:51	18° Ⅱ 21'26	
greatest similarly	2001 Dec 02 11:11	0° %	3.5111	inferior conj	2004 Jun 08 08:43	17° Ⅲ 53'21	-0°10'34
morning sot	2001 Dec 02 11:11 2001 Dec 03 22:56	1° × ⁷ 52'22			2004 Jun 08 08:20	17° I 53'57	
morning set				minimum elong			
desc. node	2001 Dec 21 19:55	24° ₹ 21'47		transit middle	2004 Jun 08 08:20	17° Ⅱ 53'57	0°10'27
	2001 Dec 26 07:25	0°る		transit begin	2004 Jun 08 05:14	17° Ⅱ 58'50	
				transit end	2004 Jun 08 11:26	17° ∏ 49'05	
superior conj	2002 Jan 14 11:32	24° る 07'22		min. Earth dist.	2004 Jun 08 06:58	17° Ⅱ 56′06	0.28888 AU
minimum elong	2002 Jan 13 23:57	23° る 30'55	0°52'14	morning rise	2004 Jun 14 16:52	14° Ⅱ 04'50	
max. Earth dist.	2002 Jan 16 09:00	26° ⋜ 30′18	1.71147 AU	direct	2004 Jun 29 23:15	9° Ⅱ 37'32	
	2002 Jan 19 03:42	0° ≈		greatest brilliancy	2004 Jul 10 04:16	11° Ⅲ 30′16	-4.7m
	2002 Feb 12 01:18	0° ∀			2004 Aug 07 11:02	0°ಅ	
evening rise	2002 Feb 24 14:23	15°) 41'48		morning max el	2004 Aug 17 18:31	9° 5 26'32	45°48'58
v , v	2002 Mar 08 01:42	0°Υ		8	2004 Sep 06 22:16	$0^{\circ}\Omega$	
	2002 Apr 01 06:39	0°8		asc. node	2004 Sep 28 18:28	24° Ω 17'26	
asc. node	2002 Apr 13 23:28	15° 8 36'58		asc. node	2004 Oct 03 17:20	0° m)	
asc. node	-					0∘ ত بابا	
	2002 Apr 25 17:57	0° I I			2004 Oct 29 00:39		
	2002 May 20 13:27	0° ©			2004 Nov 22 13:31	0°M	
	2002 Jun 14 20:16	0 $^{\circ}$ Ω			2004 Dec 16 17:10	0° ∡	
	2002 Jul 10 21:09	O° My			2005 Jan 09 16:56	0°る	
desc. node	2002 Aug 03 12:37	25° Mp 56'42		desc. node	2005 Jan 18 07:48	10° る 47'54	
	2002 Aug 07 09:09	0∘ ত			2005 Feb 02 15:42	0° ≈	
evening max el	2002 Aug 22 13:18	15° ≏ 15'19	46°00'16	morning set	2005 Feb 19 04:05	20° ≈ 40′30	
	2002 Sep 08 03:05	0° M.			2005 Feb 26 15:07	0° ∀	
greatest brilliancy	2002 Oct 01 15:14	14° M .04'44	-4.8m		2005 Mar 22 16:25	0° Y	
retrograde	2002 Oct 10 18:35	15°M36'35					
evening set	2002 Oct 26 17:04	10°M43'53		superior conj	2005 Mar 31 03:30	10° Ƴ 31'04	-1°18'27
inferior conj	2002 Oct 31 12:06	7°M53'26	-5°41'32	minimum elong	2005 Mar 31 11:32	10° Y 56′00	
minimum elong	2002 Oct 31 12:00 2002 Oct 31 22:27	7°M37'40		max. Earth dist.	2005 Apr 04 02:17	15° Υ 25'15	1.72462 AU
min. Earth dist.	2002 Oct 31 22.27 2002 Nov 01 08:07	7°M22'57		max. Darui Uist.	2005 Apr 04 02.17 2005 Apr 15 20:37	0° 8	1.72402 AU
			0.27000 AU		*		
morning rise	2002 Nov 06 03:21	4°M34'19		evening rise	2005 May 08 16:49	28° 8 11'02	
direct	2002 Nov 21 07:13	0°M03'13		_	2005 May 10 04:14	0°П	
asc. node	2002 Nov 24 15:57	0°M16'50		asc. node	2005 May 11 11:15	1° ∏ 35′21	
greatest brilliancy	2002 Dec 02 06:44	2°M20'20	-4.9m		2005 Jun 03 15:18	0ಂತಾ	
	2003 Jan 07 13:07	0°⊀			2005 Jun 28 05:53	0 $^{\circ}$ Ω	
morning max el	2003 Jan 11 02:27	3° ҂ ³34'33	46°57'41		2005 Jul 23 01:01	0° ™	
	2003 Feb 04 13:27	万 °0			2005 Aug 17 03:05	0∘ ⊽	
	2003 Mar 02 12:40	0° ≈		desc. node	2005 Aug 31 00:33	16° ≏ 23'55	
desc. node	2003 Mar 16 05:37	16° ≈ 13'47			2005 Sep 11 16:14	0°M	
	2003 Mar 27 18:14	0° ∀			2005 Oct 08 01:00	0° ⊼ 7	
	2003 Apr 21 16:18	0° Υ		evening max el	2005 Nov 03 19:34	28° × ⁷ 28'48	47°06'10
	2003 ripi 21 10.10	V 1		Stoming max of	2000 1101 00 17.04	20 7 20 70	1, 0010

	200531 05 00 10	007			2000 4 20 12 24	۰	
	2005 Nov 05 08:10	0°る	4.0		2008 Apr 30 13:34	0°8	
greatest brilliancy	2005 Dec 14 07:35	29° ⋜ 31'59	-4.9m	morning set	2008 May 03 01:17	3° 8 03'50	
1	2005 Dec 15 15:58	0° ≈		,	2008 May 24 22:52	0°II	
asc. node	2005 Dec 22 03:50	1°≈21'58		asc. node	2008 Jun 07 23:08	17° Ⅱ 13'08	
retrograde	2005 Dec 24 09:36	1°≈28'01			2000 1 00 04 20	100 T 10150	0000156
. ,	2006 Jan 01 20:18	30°Rる		superior conj	2008 Jun 09 04:20	18° Ⅱ 42'50	0°02'56
evening set	2006 Jan 08 09:05	27° る 00'49		minimum elong	2008 Jun 09 03:42	18° Ⅱ 40'54	0°02'54
inferior conj	2006 Jan 13 23:59	23°₹40'06	5°30'44	behind sun begin	2008 Jun 08 05:18	17° Ⅱ 32'06	
minimum elong	2006 Jan 13 13:50	23° ⋜ 55'44	5°28'08	behind sun end	2008 Jun 10 02:05	19° Ⅱ 49'42	
min. Earth dist.	2006 Jan 13 06:16	24° ろ 07'23	0.26649 AU	max. Earth dist.	2008 Jun 09 04:51	18° ∏ 44'27	1.73558 AU
morning rise	2006 Jan 18 18:57	20° පි 48'06			2008 Jun 18 08:49	0₀ ௐ	
direct	2006 Feb 03 09:19	16° පි 01'19			2008 Jul 12 18:39	0 ° Ω	
greatest brilliancy	2006 Feb 12 16:13	17° る 39'14	-4.9m	evening rise	2008 Jul 15 06:49	3° Ω 04'56	
	2006 Mar 05 08:39	0° ≈			2008 Aug 06 04:20	0° ™	
morning max el	2006 Mar 25 06:45	17° ≈ 58′28	46°31'49		2008 Aug 30 14:41	0∘ ⊽	
	2006 Apr 06 01:21	0° ∀			2008 Sep 24 02:59	0° M	
desc. node	2006 Apr 12 17:19	7° ₩ 05'21		desc. node	2008 Sep 27 12:27	4° M 08'37	
	2006 May 03 10:25	0 ° $\mathbf{\gamma}$			2008 Oct 18 18:31	0° ∡ ¹	
	2006 May 29 12:41	9° 8			2008 Nov 12 15:25	0°ප	
	2006 Jun 24 00:31	Π $^{\circ}0$			2008 Dec 07 23:37	0° ≈	
	2006 Jul 19 02:41	0ංම			2009 Jan 03 12:35	0° ∀	
asc. node	2006 Aug 03 20:48	19° 5 03'40		evening max el	2009 Jan 14 21:24	11° ¥ 58'34	47°07'21
	2006 Aug 12 20:21	$0^{\circ}\Omega$		asc. node	2009 Jan 18 15:51	15°) 45′58	
	2006 Sep 06 06:15	0° m p			2009 Feb 03 03:41	$0^{\circ}\mathbf{\Upsilon}$	
morning set	2006 Sep 19 21:10	16° m 53'01		greatest brilliancy	2009 Feb 24 06:17	13° Y 22'42	-4.9m
	2006 Sep 30 10:02	0° ⊽		retrograde	2009 Mar 06 17:17	15° Ƴ 27'27	
	2006 Oct 24 09:58	0° M ,		evening set	2009 Mar 24 09:45	9° Y ′22'31	
max. Earth dist.	2006 Oct 25 04:00	0°M56'31	1.71626 AU	inferior conj	2009 Mar 27 19:24	7° Y 15'33	8°09'51
				minimum elong	2009 Mar 28 02:18	7° Ƴ 04'41	8°09'05
superior conj	2006 Oct 27 17:50	4°M10'16	0°58'03	min. Earth dist.	2009 Mar 27 12:19	7° Y ′26'41	0.28147 AU
minimum elong	2006 Oct 28 04:14	4°M42'50	0°57'40	morning rise	2009 Mar 31 19:05	4° Ƴ 47'57	
	2006 Nov 17 08:02	0° ∡ ¹			2009 Apr 11 12:47	30° ₹	
desc. node	2006 Nov 23 10:11	7° ∡ ³38'43		direct	2009 Apr 17 19:24	29°) 11'57	
evening rise	2006 Dec 07 02:24	24° х 48'50			2009 Apr 24 07:18	0°Υ	
e vennig rise	2006 Dec 11 05:33	0°ਰ		greatest brilliancy	2009 Apr 27 06:31	0° Υ 51'19	-4.8m
	2007 Jan 04 03:31	0° ≈		desc. node	2009 May 10 05:00	7° Υ 22'48	1.0111
	2007 Jan 28 03:32	0° ∀		morning max el	2009 Jun 05 20:51	29° Y '30'33	45°51'07
	2007 Feb 21 08:21	0° Υ		morning max cr	2009 Jun 06 09:07	0° 8	45 51 07
asc. node	2007 New 21 08:21 2007 Mar 16 13:32	28° Y 21′50			2009 Jul 05 08:23	0°II	
asc. node	2007 Mar 10 13:32 2007 Mar 17 22:00	0° 8			2009 Aug 01 01:28	0°©	
	2007 Apr 12 02:15	0 O			2009 Aug 26 16:12	0°Ω	
	2007 May 08 07:28	0ಂ ತಾ		asc. node	2009 Aug 31 08:38	5° Ω 35'21	
	2007 Jun 05 17:59	0° U		asc. node	2009 Sep 20 13:32	0°m)	
evening max el	2007 Jun 09 02:45	3° Ω 15'54	45022127		2009 Sep 20 13:32 2009 Oct 14 22:46	0∘ ত الأال	
desc. node	2007 Jul 09 02:43 2007 Jul 06 02:52	25° Ω 23'30	43 2321		2009 Nov 08 00:23	0° ™	
desc. Hode	2007 Jul 14 18:23				2009 Nov 25 18:32	22°M16'30	2.0
greatest brilliancy		0°Mp	-4.7m	greatest brilliancy			-3.9111
	2007 Jul 17 11:42 2007 Jul 27 17:28	1° Mp 03'57	-4./111	morning set	2009 Dec 01 10:19	29°M23'07 0°⊀	
retrograde	2007 Aug 09 01:10	2° Mp 57′23 30° R Ω		desc. node	2009 Dec 01 22:04 2009 Dec 20 22:01	23° х 54'09	
avanina aat	Č	27° Ω 25'46		desc. node	2009 Dec 25 18:17	23 メ ・3409	
evening set	2007 Aug 13 21:45		7050154		2009 Dec 25 18:17	0.0	
inferior conj	2007 Aug 18 03:41	24° Ω 50′52			2010 I 11 21.06	210=22115	0940127
minimum elong	2007 Aug 17 20:23	25° Ω 02'13	7°58'04	superior conj	2010 Jan 11 21:06	21° る 32'15	
min. Earth dist.	2007 Aug 18 10:03	24° Ω 40'59	0.28816 AU	minimum elong	2010 Jan 11 09:52	20°る56'55	
morning rise	2007 Aug 21 18:48	22° Ω 37'06		max. Earth dist.	2010 Jan 13 17:06	23° る 50'37	1.71129 AU
direct	2007 Sep 08 16:14	16° Ω 35'27	4.0		2010 Jan 18 14:35	0° ≈	
greatest brilliancy	2007 Sep 19 13:41	18° Ω 44'27	-4.8m		2010 Feb 11 12:10	0° ∀	
	2007 Oct 08 06:53	0° m)		evening rise	2010 Feb 22 01:26	13°) 12′28	
asc. node	2007 Oct 27 06:11	16° Mp 58'56	4.6005150		2010 Mar 07 12:33	0°Υ •••	
morning max el	2007 Oct 28 15:05	18° m/20'38	46°27'59		2010 Mar 31 17:35	0°8	
	2007 Nov 08 21:05	0° ™		asc. node	2010 Apr 13 01:27	15° 8 09'13	
	2007 Dec 05 13:29	0° M ₅			2010 Apr 25 05:05	0°Щ	
	2007 Dec 30 18:02	0° ∡			2010 May 20 01:05	0°99	
	2008 Jan 24 08:06	0° ਰ			2010 Jun 14 08:50	0 \circ Ω	
desc. node	2008 Feb 15 19:44	27° る 42'12			2010 Jul 10 11:32	0° m	
	2008 Feb 17 16:22	0° ≈		desc. node	2010 Aug 02 14:43	25° m 15'32	
	2008 Mar 12 22:51	0° ∀			2010 Aug 07 03:47	0∘ 亚	
	2008 Apr 06 05:35	$\mathbf{\gamma}_{0}$		evening max el	2010 Aug 20 03:48	12° ≏ 59'17	45°57'59

	2010 Sep 08 15:44	0°M			2013 Feb 02 02:47	0° ≈	
greatest brilliancy	2010 Sep 08 13:44 2010 Sep 29 03:59	11°M42'49	-4.8m	morning set	2013 Feb 16 14:36	0 ∞ 18°≈08'55	
retrograde	2010 Sep 29 03:39 2010 Oct 08 07:05	13°M13'58	- 4 .0111	morning set	2013 Feb 26 02:03	0° ∀	
evening set	2010 Oct 24 09:12	8°M16'58			2013 New 20 02:03 2013 Mar 22 03:15	0°Υ	
inferior conj	2010 Oct 29 01:10	5°M30'25	-5°58'48		2010 11111 22 03.10	• •	
minimum elong	2010 Oct 29 11:39	5°M14'25		superior conj	2013 Mar 28 17:05	8° Y 10'36	-1°19'53
min. Earth dist.	2010 Oct 29 21:39	4° ™ 59'11	0.27150 AU	minimum elong	2013 Mar 29 00:31	8° Y 33'43	
morning rise	2010 Nov 03 13:38	2° M 14'42		max. Earth dist.	2013 Apr 01 17:14		1.72406 AU
C	2010 Nov 08 03:06	30° ₽ Ω			2013 Apr 15 07:25	0° ႘	
direct	2010 Nov 18 21:18	27° ≏ 39'26		evening rise	2013 May 06 08:47	25° 8 59'11	
asc. node	2010 Nov 23 17:59	28° ₽ 07'29			2013 May 09 15:03	$\Pi^{\circ}0$	
greatest brilliancy	2010 Nov 29 20:43	29° ≙ 56'10	-4.9m	asc. node	2013 May 10 13:22	1° Ⅱ 08'36	
	2010 Nov 30 00:33	0°M			2013 Jun 03 02:13	0 \circ \mathfrak{S}	
	2011 Jan 07 12:30	0° ∡ ¹			2013 Jun 27 17:03	$0^{\circ}\Omega$	
morning max el	2011 Jan 08 16:02	1° 渘 09'49	46°57'24		2013 Jul 22 12:41	0° m ∕	
	2011 Feb 04 05:58	o°S			2013 Aug 16 15:37	0∘ ⊽	
	2011 Mar 02 02:39	0° ≈		desc. node	2013 Aug 30 02:30	15° ≙ 50'53	
desc. node	2011 Mar 15 07:30	15° ≈ 40′14			2013 Sep 11 06:16	0° M ₊	
	2011 Mar 27 06:53	0° ∀			2013 Oct 07 17:54	0° ∡ ¹	
	2011 Apr 21 04:06	0 ° Υ		evening max el	2013 Nov 01 07:59	26° ∡ 01'29	47°04'26
	2011 May 15 22:12	9° 8			2013 Nov 05 08:43	0°ප	
	2011 Jun 09 14:23	Π °0		greatest brilliancy	2013 Dec 11 21:27	27° る 04'00	-4.9m
	2011 Jul 04 04:17	0∘ ©		asc. node	2013 Dec 21 06:00	28° る 58'24	
asc. node	2011 Jul 06 11:01	2° © 47'30		retrograde	2013 Dec 21 21:53	28° る 58'57	
morning set	2011 Jul 11 03:13	8° © 31'05		evening set	2014 Jan 05 18:49	24° る 35'46	
	2011 Jul 28 14:59	$0^{\circ}\Omega$		min. Earth dist.	2014 Jan 10 19:54	21° る 37'22	0.26612 AU
max. Earth dist.	2011 Aug 13 09:24	19° Ω 26′53	1.73085 AU	inferior conj	2014 Jan 11 12:24	21°る11'59	5°11'17
	2011 1 16 12 00	222 0 1 51 1 5	1015100	minimum elong	2014 Jan 11 02:32	21° る 27'09	5°08'40
superior conj	2011 Aug 16 12:08	23° Ω 17'47		morning rise	2014 Jan 16 10:32	18° る 15'43	
minimum elong	2011 Aug 16 05:29	22° Ω 57'15	1°1/'25	direct	2014 Jan 31 20:49	13°る33'23	4.0
	2011 Aug 21 22:11	0° m		greatest brilliancy	2014 Feb 10 06:14	15° る 13'17	-4.9m
arranina riaa	2011 Sep 15 02:40	0° ഫ 8° ഫ 40'10		morning may al	2014 Mar 05 21:03 2014 Mar 22 19:31	0° ≈ 15° ≈ 33'55	16022126
evening rise	2011 Sep 22 02:08 2011 Oct 09 05:50	0°M		morning max el		15 ≈ 55 55	40 33 20
desc. node	2011 Oct 09 03:30 2011 Oct 26 00:22	20°M51'20		desc. node	2014 Apr 05 20:31 2014 Apr 11 19:23	6°) 22'53	
desc. Hode	2011 Oct 20 00:22 2011 Nov 02 08:51	20 II C 31 20 0° √		desc. Hode	2014 Apr 11 19:23 2014 May 03 01:21	0 γ(22 33 0° Υ	
	2011 Nov 02 08:31 2011 Nov 26 12:36	% % %			2014 May 29 01:45	%8 0°8	
	2011 Dec 20 18:26	0° ≈			2014 Jun 23 12:33	0°II	
	2012 Jan 14 05:47	0° ∀			2014 Jul 18 14:06	0.බ ⊙ ව	
	2012 Feb 08 06:01	0°Υ		asc. node	2014 Aug 02 22:48	18° © 35'53	
asc. node	2012 Feb 16 03:35	9° Υ 14'32			2014 Aug 12 07:24	$0^{\circ}\Omega$	
	2012 Mar 05 10:25	0°8			2014 Sep 05 17:07	0° m/y	
evening max el	2012 Mar 27 07:44	23° 8 00'19	46°02'27	morning set	2014 Sep 17 13:24	14° m) 40'36	
C	2012 Apr 03 15:18	$\Pi^{\circ}0$		C	2014 Sep 29 20:52	0∘ ত	
greatest brilliancy	2012 May 04 15:22	21° Ⅱ 48'35	-4.8m	max. Earth dist.	2014 Oct 22 18:18	28° ≏ 36'47	1.71673 AU
retrograde	2012 May 15 14:33	23° Ⅲ 59'32			2014 Oct 23 20:52	0° M ₊	
evening set	2012 May 30 17:21	19° Ⅱ 33'39					
inferior conj	2012 Jun 06 01:09	15° ∏ 44'46	0°09'21	superior conj	2014 Oct 25 07:31	1° M 48'31	1°00'39
minimum elong	2012 Jun 06 01:30	15° ∏ 44'14	0°09'14	minimum elong	2014 Oct 25 17:53	2°M21'00	1°00'17
transit middle	2012 Jun 06 01:30	15° ∏ 44'14	0°09'14		2014 Nov 16 19:03	0° ∡ 7	
transit begin	2012 Jun 05 22:10	15° Ⅱ 49'29		desc. node	2014 Nov 22 12:20	7° ∡ 10'47	
transit end	2012 Jun 06 04:50	15° Ⅱ 38'59		evening rise	2014 Dec 04 13:19	22° ∡ 17'36	
min. Earth dist.	2012 Jun 05 23:53	15° ∏ 46'46	0.28870 AU		2014 Dec 10 16:42	0°る	
desc. node	2012 Jun 06 16:56	15° Ⅱ 19'56			2015 Jan 03 14:48	0° ≈	
morning rise	2012 Jun 12 09:53	11° ∏ 55'01			2015 Jan 27 15:00	0° ∀	
direct	2012 Jun 27 15:07	7° Ⅱ 29'16			2015 Feb 20 20:05	0°Υ°	
greatest brilliancy	2012 Jul 07 20:07	9° Ⅱ 21'30	-4.7m	asc. node	2015 Mar 15 15:31	27° Y 50'58	
	2012 Aug 07 13:43	0°95	45040110		2015 Mar 17 10:15	8°0	
morning max el	2012 Aug 15 09:07	7°©13'45	45~48'10		2015 Apr 11 15:28	0° ∏	
aga m-J-	2012 Sep 06 14:48	0° Ω 22° Ω 42!56			2015 May 07 22:52	0° ⊙	
asc. node	2012 Sep 27 20:28	23° Ω 42'56		avanir 1	2015 Jun 05 15:33	0° Ω	45000140
	2012 Oct 03 06:59 2012 Oct 28 13:04	0 ் ம 0 ் மி		evening max el desc. node	2015 Jun 06 18:29 2015 Jul 05 04:59	1° Ω 04'50 24° Ω 05'29	+3 23 40
	2012 Oct 28 13:04 2012 Nov 22 01:20	0° M		greatest brilliancy	2015 Jul 05 04:59 2015 Jul 15 01:02	24° λ (05'29) 28° Ω 50'48	-4.7m
	2012 Nov 22 01:20 2012 Dec 16 04:38	0° 17⊓ 0° 27⊓		greatest brilliancy	2015 Jul 18 22:38	28 36 30 48	·¬./III
	2012 Dec 10 04:38 2013 Jan 09 04:11	0°중		retrograde	2015 Jul 18 22:38 2015 Jul 25 09:29	0°Mp46'23	
desc. node	2013 Jan 17 09:55	10° ප 19'30		1011051440	2015 Jul 31 15:27	0 11/40 23 30°RΩ	
acco. Houc	2010 Uni 17 U).00	10 01730			2010 0d1 01 10.2/	20 1100	

evening set	2015 Aug 11 10:06	25° Ω 18'53			2017 Dec 25 05:26	0°ප	
inferior conj	2015 Aug 15 19:22	22° Ω 39'06	-7°50'26		2017 Dec 23 03.20	° °	
minimum elong	2015 Aug 15 11:34	22° Ω 51'12		superior conj	2018 Jan 09 07:02	18° る 57'28	-0°46'06
min. Earth dist.	2015 Aug 16 00:36	22° Ω 30'58	0.28844 AU	minimum elong	2018 Jan 08 20:15	18° る 23'35	0°45'40
morning rise	2015 Aug 19 12:50	20° Ω 21'57		max. Earth dist.	2018 Jan 11 01:45	21° る 11'49	1.71112 AU
direct	2015 Sep 06 08:29	14° £ 23′18			2018 Jan 18 01:44	0° ≈	
greatest brilliancy	2015 Sep 17 04:49	16° Ω 31'34	-4.8m		2018 Feb 10 23:20	0°) €	
	2015 Oct 08 17:29	0° m)		evening rise	2018 Feb 19 12:30	10°) (42′04	
asc. node	2015 Oct 26 08:17	16° m 09'08			2018 Mar 06 23:45	$0^{\circ}\mathbf{\Upsilon}$	
morning max el	2015 Oct 26 07:11	16° Mp 06′25	46°26'29		2018 Mar 31 04:54	$8^{\circ 0}$	
	2015 Nov 08 15:31	0∘ ⊽		asc. node	2018 Apr 12 03:32	14° 8 40'34	
	2015 Dec 05 04:15	0°M₊			2018 Apr 24 16:40	Π $^{\circ}0$	
	2015 Dec 30 07:16	0° ∡ ¹			2018 May 19 13:11	0°€	
	2016 Jan 23 20:32	0° ප			2018 Jun 13 21:54	$0 {\circ} \Omega$	
desc. node	2016 Feb 14 21:40	27° る 11'17			2018 Jul 10 02:32	O° My	
	2016 Feb 17 04:17	0° ≈		desc. node	2018 Aug 01 16:39	24° Mp 32'10	
	2016 Mar 12 10:24	0° ∀			2018 Aug 06 23:27	0∘ ত	
	2016 Apr 05 16:50	0° Y		evening max el	2018 Aug 17 17:31	10° ≏ 40'09	45°55'40
	2016 Apr 30 00:36	0° 8			2018 Sep 09 09:25	0°M₊	
morning set	2016 Apr 30 17:26	0° 8 51'51		greatest brilliancy	2018 Sep 26 17:13	9°M20'19	-4.8m
	2016 May 24 09:45	Π °0		retrograde	2018 Oct 05 19:04	10° ™ 50′22	
		—		evening set	2018 Oct 22 01:22	5°M48'55	
superior conj	2016 Jun 06 21:49	16° Ⅱ 35'44		inferior conj	2018 Oct 26 14:16	3°M06'30	
minimum elong	2016 Jun 06 21:54	16° Ⅱ 35'59	0°00'20	minimum elong	2018 Oct 27 00:48	2°M50'22	
behind sun begin	2016 Jun 05 23:15	15° Ⅱ 26′26		min. Earth dist.	2018 Oct 27 11:31	2°M33'59	0.27212 AU
behind sun end	2016 Jun 07 20:32	17° Ⅱ 45'33	1.505.45	morning rise	2018 Oct 31 23:44	29° £ 54'23	
max. Earth dist.	2016 Jun 07 03:29	16° Ⅱ 53'12	1.73547 AU	11	2018 Oct 31 19:42	30° ₹ Ω	
asc. node	2016 Jun 07 01:14	16° ∏ 46'16 0° ©		direct	2018 Nov 16 10:51	25° △ 14'32	
	2016 Jun 17 19:39			asc. node	2018 Nov 22 20:05	26° £ 02'09	4.0
avanina risa	2016 Jul 12 05:34 2016 Jul 13 01:40	0° ብ 1° ብ 01'47		greatest brilliancy	2018 Nov 27 11:14 2018 Dec 02 17:02	27° £ 31'34 0° M	-4.9m
evening rise	2016 Jul 13 01:40 2016 Aug 05 15:27	0° m)		morning max el	2018 Dec 02 17.02 2019 Jan 06 04:54	28°M42'12	16057122
	2016 Aug 30 02:07	0∘ ⊽		morning max er	2019 Jan 07 11:18	20 11042 12 0°×7	40 37 22
	2016 Sep 23 14:51	0 == 0° M ₊			2019 Jan 07 11:18 2019 Feb 03 22:29	% 0°ਤ	
desc. node	2016 Sep 26 14:31	3°ML38'31			2019 Feb 03 22:29 2019 Mar 01 16:45	0°≈	
desc. node	2016 Oct 18 07:01	0° ⊼ ¹		desc. node	2019 Mar 14 09:37	0 ~ 15° ≈ 06'41	
	2016 Nov 12 04:54	° ਣ°0		dese. Hode	2019 Mar 26 19:43	0° ∀	
	2016 Dec 07 14:51	0° ≈			2019 Apr 20 16:11	0° Υ	
	2017 Jan 03 07:47	0° ∀			2019 May 15 09:46	0°8	
evening max el	2017 Jan 12 13:18	9°) 40′27	47°08'46		2019 Jun 09 01:37	0°II	
asc. node	2017 Jan 17 17:46	14°) 51'40			2019 Jul 03 15:18	0°ಅ	
	2017 Feb 03 15:51	$0^{\circ}\Upsilon$		asc. node	2019 Jul 05 13:00	2° © 19'53	
greatest brilliancy	2017 Feb 21 21:18	11° Y '03'40	-4.9m	morning set	2019 Jul 08 21:14	6° © 25'38	
retrograde	2017 Mar 04 09:09	13° Y ′08′50		Č	2019 Jul 28 01:54	$0^{\circ}\Omega$	
evening set	2017 Mar 22 02:59	7° Ƴ 00'44		max. Earth dist.	2019 Aug 11 03:11	17° Ω 19'55	1.73127 AU
inferior conj	2017 Mar 25 10:17	4° Ƴ 57'13	8°17'38				
minimum elong	2017 Mar 25 16:36	4° Ƴ 47'18	8°17'01	superior conj	2019 Aug 14 06:07	21° Ω 11'22	1°16'12
min. Earth dist.	2017 Mar 25 01:59	5° Ƴ 10′17	0.28105 AU	minimum elong	2019 Aug 13 23:03	20° Ω 49'32	1°16'03
morning rise	2017 Mar 29 06:29	2° Y 34'58			2019 Aug 21 09:06	O° My	
	2017 Apr 03 00:25	30° ₹ ₩			2019 Sep 14 13:43	0。 ত	
direct	2017 Apr 15 10:18	26° ⊁ 54'34		evening rise	2019 Sep 19 18:02	6° £ 25′58	
greatest brilliancy	2017 Apr 24 19:08	28°) 32′27	-4.8m		2019 Oct 08 17:06	0°M₊	
	2017 Apr 28 13:13	0° Υ		desc. node	2019 Oct 25 02:30	20°M22'21	
desc. node	2017 May 09 07:08	6° Y ′05′22			2019 Nov 01 20:25	0° ∡	
morning max el	2017 Jun 03 12:30	27° Y 17′53	45°51'59		2019 Nov 26 00:28	0°ಕ	
	2017 Jun 06 07:27	0°8			2019 Dec 20 06:42	0° ≈	
	2017 Jul 05 00:11	0°Ⅱ			2020 Jan 13 18:39	0°) €	
	2017 Jul 31 14:54	0° ©			2020 Feb 07 20:02	0° Υ	
1	2017 Aug 26 04:30	0°Ω 5°Ω04!50		asc. node	2020 Feb 15 05:37	8° Ƴ 38'09	
asc. node	2017 Aug 30 10:36	5° Ω 04'50			2020 Mar 05 03:07	0° 8	4.000.412.0
	2017 Sep 20 01:15	0° m)		evening max el	2020 Mar 24 22:14	20° 8 43'48	46°04'39
	2017 Oct 14 10:11	0∘ m 0∘ ⊽		amonts -t b -: !!!	2020 Apr 03 17:11	0° Π 10° Π 40'01	1 0
grantast brill:	2017 Nov 07 11:38	0°M	2 0	greatest brilliancy	2020 May 02 08:51	19° ∏ 40'01	-4.8m
greatest brilliancy morning set	2017 Nov 25 03:07 2017 Nov 28 22:13	22°M08'19 26°M54'32	-3.9m	retrograde evening set	2020 May 13 06:45 2020 May 28 10:49	21° Ⅲ 50′25 17° Ⅲ 23′05	
morning set	2017 Nov 28 22:13 2017 Dec 01 09:14	26°11⊾34°32 0° √ 1		inferior conj	2020 May 28 10:49 2020 Jun 03 17:44	17° Щ 23°03 13° Щ 35'40	0°29'12
desc. node	2017 Dec 01 09:14 2017 Dec 20 00:06	23° ∡ ¹25'36		minimum elong	2020 Jun 03 17:44 2020 Jun 03 18:48	13° Д 33'40 13° Д 33'59	0°29'12 0°28'52
dese. Houe	2017 DCC 20 00.00	23 🔨 23 30		minimum ciong	2020 Juli 03 10.48	15 11 33 39	0 20 32

min. Earth dist.	2020 Jun 03 17:05	13° Ⅱ 36'41	0.28858 AU		2022 Dec 10 03:54	0°₹	
desc. node	2020 Jun 05 19:02	12° Ⅱ 18′24			2023 Jan 03 02:10	0° ≈	
morning rise	2020 Jun 10 02:56	9° Ⅱ 44'59			2023 Jan 27 02:33	0°) €	
direct	2020 Jun 25 06:48	5° Ⅱ 20'12			2023 Feb 20 07:56	0 ° $\mathbf{\Upsilon}$	
greatest brilliancy	2020 Jul 05 12:43	7° Ⅱ 12'47	-4.7m	asc. node	2023 Mar 14 17:41	27° Y 20′23	
	2020 Aug 07 15:21	0ಂ ತಾ			2023 Mar 16 22:34	9° 8	
morning max el	2020 Aug 13 00:14	5° © 01'18	45°47'28		2023 Apr 11 04:47	Π $^{\circ}0$	
	2020 Sep 06 07:22	$0 {\circ} \Omega$			2023 May 07 14:25	0ಂ ತಾ	
asc. node	2020 Sep 26 22:39	23° Ω 08′22		evening max el	2023 Jun 04 11:01	28° © 56'08	45°23'57
	2020 Oct 02 20:48	O° Mp			2023 Jun 05 13:46	$0^{\circ}\Omega$	
	2020 Oct 28 01:41	0∘ ত		desc. node	2023 Jul 04 06:53	22° Ω 45'22	
	2020 Nov 21 13:22	0° M		greatest brilliancy	2023 Jul 12 14:43	26° Ω 38'53	-4.7m
	2020 Dec 15 16:21	0° ∡ ¹		retrograde	2023 Jul 23 01:33	28° Ω 36′12	
	2021 Jan 08 15:41	0°ප		evening set	2023 Aug 08 22:41	23° Ω 13′05	
desc. node	2021 Jan 16 11:50	9° る 49'42		inferior conj	2023 Aug 13 11:16	20° Ω 28'14	-7°41'18
	2021 Feb 01 14:05	0° ≈		minimum elong	2023 Aug 13 03:01	20° Ω 41′02	7°40'13
morning set	2021 Feb 14 01:14	15° ≈ 36'53		min. Earth dist.	2023 Aug 13 15:17	20° Ω 21'59	0.28871 AU
	2021 Feb 25 13:11	0° ∀		morning rise	2023 Aug 17 07:12	18° Ω 07'25	
	2021 Mar 21 14:16	0 ° Υ		direct	2023 Sep 04 01:20	12° Ω 12'14	
				greatest brilliancy	2023 Sep 14 19:47	14° Ω 19'04	-4.8m
superior conj	2021 Mar 26 06:58	5° Ƴ 50′28	-1°21'09		2023 Oct 09 01:11	O° Mp	
minimum elong	2021 Mar 26 13:47	6° Ƴ 11'40	1°21'03	morning max el	2023 Oct 23 23:14	13° m 52′22	46°24'47
max. Earth dist.	2021 Mar 30 06:51	10° Ƴ 48'20	1.72346 AU	asc. node	2023 Oct 25 10:20	15° Mp 20'10	
	2021 Apr 14 18:22	8°			2023 Nov 08 09:31	0∘ ত	
evening rise	2021 May 04 01:01	23° 8 47'44			2023 Dec 04 18:51	0° M	
	2021 May 09 02:01	Π $^{\circ}0$			2023 Dec 29 20:24	0° ∡ ¹	
asc. node	2021 May 09 15:27	0° Ⅱ 41'18			2024 Jan 23 08:50	0°ප	
	2021 Jun 02 13:19	0		desc. node	2024 Feb 13 23:46	26° පි 41'10	
	2021 Jun 27 04:27	$0^{\circ}\Omega$			2024 Feb 16 16:05	0° ≈	
	2021 Jul 22 00:37	O° Mp			2024 Mar 11 21:50	0° ∀	
	2021 Aug 16 04:27	0∘ ত			2024 Apr 05 04:00	$0^{\circ}\mathbf{\Upsilon}$	
desc. node	2021 Aug 29 04:36	15° ≏ 17'28		morning set	2024 Apr 28 09:39	28° Y 40'19	
	2021 Sep 10 20:39	0°M.			2024 Apr 29 11:31	0°8	
	2021 Oct 07 11:21	0° ∡ 7	.=		2024 May 23 20:30	Π °0	
evening max el	2021 Oct 29 20:52	23° × ⁷ 35'03	47°02'42		20247 04 15 24	1.40 # 20151	000010.4
4 41 711	2021 Nov 05 10:44	0°る	4.0	superior conj	2024 Jun 04 15:34	14° Ⅱ 29'51	
greatest brilliancy	2021 Dec 09 10:49	24°₹34'54	-4.9m	minimum elong	2024 Jun 04 16:18	14° Ⅱ 32'07	0°03'32
retrograde	2021 Dec 19 10:36	26°る29'25 26°る28'27		behind sun begin	2024 Jun 03 17:58	13° Ⅲ 23'28 15° Ⅲ 40'45	
asc. node	2021 Dec 20 07:58			behind sun end	2024 Jun 05 14:38		1 72520 ATT
evening set min. Earth dist.	2022 Jan 03 04:45	22°る09'38	0.26579 AU	max. Earth dist.	2024 Jun 05 03:00	15° Д 05'01 16° Д 19'23	1.73528 AU
	2022 Jan 08 09:19 2022 Jan 09 00:48	19 3 00 31	4°51'07	asc. node	2024 Jun 06 03:13 2024 Jun 17 06:20	0°9	
inferior conj minimum elong	2022 Jan 09 00.48 2022 Jan 08 15:16	18° る 57'44		evening rise	2024 Jul 10 20:50	0 S 29°S00'10	
morning rise	2022 Jan 14 02:03	15° る 42'54	4 40 32	evening rise	2024 Jul 10 20:30 2024 Jul 11 16:19	0°Ω	
direct	2022 Jan 29 08:46	13 3 4234 11° 3 04'37			2024 Aug 05 02:23	0° m	
greatest brilliancy	2022 Feb 07 20:00	11 30437 12° 3 46'23	4 0m		2024 Aug 03 02:23 2024 Aug 29 13:23	0∘ ত بالا	
greatest orimancy	2022 Mar 06 06:30	0°≈	- 4 .7III		2024 Sep 23 02:36	0° M	
morning max el	2022 Mar 20 09:25	13° ≈ 11'39	46°35'11	desc. node	2024 Sep 25 02:30 2024 Sep 25 16:39	3°M08'57	
morning man vi	2022 Apr 05 15:18	0°) €	10 35 11	dese. node	2024 Oct 17 19:28	0° ∡ 7	
desc. node	2022 Apr 10 21:30	5°) 40'44			2024 Nov 11 18:26	0° ਰ	
dese. node	2022 May 02 16:10	0°Υ			2024 Dec 07 06:13	0° ≈	
	2022 May 28 14:46	0°8			2025 Jan 03 03:24	0°) €	
	2022 Jun 23 00:34	0°II		evening max el	2025 Jan 10 05:02	7°) €21'57	47°10'07
	2022 Jul 18 01:32	0∘ ©		asc. node	2025 Jan 16 19:50	13°) €57'01	
asc. node	2022 Aug 02 00:48	18° © 07'51			2025 Feb 04 07:57	$0^{\circ}\Upsilon$	
	2022 Aug 11 18:30	$0^{\circ}\Omega$		greatest brilliancy	2025 Feb 19 12:47	8° Y 45'24	-4.9m
	2022 Sep 05 04:05	0° m p		retrograde	2025 Mar 02 00:36	10° Y 50′09	
morning set	2022 Sep 15 05:45	12° m/28'22		evening set	2025 Mar 19 19:58	4° Υ 39'32	
-	2022 Sep 29 07:49	0∘ ত		min. Earth dist.	2025 Mar 22 15:48	2° Y 53'47	0.28060 AU
max. Earth dist.	2022 Oct 20 08:15	26° ≙ 15'47	1.71718 AU	inferior conj	2025 Mar 23 01:08	2° Y 39'06	8°24'41
				minimum elong	2025 Mar 23 06:46	2° Y 30'13	8°24'12
superior conj	2022 Oct 22 21:17	29° ≙ 26'53	1°03'07	morning rise	2025 Mar 26 17:51	0° Y 21′57	
minimum elong	2022 Oct 23 07:33	29° ჲ 59'00	1°02'46		2025 Mar 27 08:41	30° ₹ ₩	
	2022 Oct 23 07:52	0°M		direct	2025 Apr 13 01:02	24°) 37′30	
	2022 Nov 16 06:09	0° ∡ ″		greatest brilliancy	2025 Apr 22 07:56	26° ∺ 13'53	-4.8m
desc. node	2022 Nov 21 14:21	6° ∡ 742'11			2025 Apr 30 17:16	0 ° $\mathbf{\Upsilon}$	
evening rise	2022 Dec 02 00:16	19° ∡ ⁴46′20		desc. node	2025 May 08 09:10	4° Υ 50'31	

							
morning max el	2025 Jun 01 03:29	25° Y ′04′00	45°52'59		2027 Nov 25 11:59	0°ಕ	
	2025 Jun 06 04:43	9° 8			2027 Dec 19 18:40	0° ≈	
	2025 Jul 04 15:31	Π $\circ 0$			2028 Jan 13 07:20	0° ℋ	
	2025 Jul 31 03:57	0 \circ ∞			2028 Feb 07 10:01	0 ° Υ	
	2025 Aug 25 16:27	$0^{\circ}\Omega$		asc. node	2028 Feb 14 07:46	8° Ƴ 02'22	
asc. node	2025 Aug 29 12:49	4° Ω 36′03			2028 Mar 04 20:01	$_{0\circ}$ 8	
	2025 Sep 19 12:39	0° m y		evening max el	2028 Mar 22 12:27	18° 8 26'54	46°07'00
	2025 Oct 13 21:19	0∘ ⊽			2028 Apr 03 20:28	$\Pi^{\circ}0$	
	2025 Nov 06 22:40	0°M		greatest brilliancy	2028 Apr 30 01:32	17° Ⅱ 30'33	-4.8m
greatest brilliancy	2025 Nov 24 06:03	21°M42'58	-3.9m	retrograde	2028 May 10 23:03	19° Ⅱ 41'12	
morning set	2025 Nov 26 10:00	24°M26'10	3.5111	evening set	2028 May 26 04:09	15° I I11'59	
morning set	2025 Nov 30 20:14	0°×7		inferior conj	2028 Jun 01 10:00	11° Ⅱ 26'19	0°49'06
desc. node	2025 Nov 30 20:14 2025 Dec 19 02:06	22° х 57'14		minimum elong	2028 Jun 01 11:48	11° II 23'30	
desc. Hode				•			
	2025 Dec 24 16:26	0°ප		min. Earth dist.	2028 Jun 01 09:49	11° II 26'38	0.28843 AU
				desc. node	2028 Jun 04 20:59	9° Ⅱ 17'28	
superior conj	2026 Jan 06 16:36	16° පි 22'03		morning rise	2028 Jun 07 19:34	7° Ⅱ 35'09	
minimum elong	2026 Jan 06 06:24	15° る 49'58	0°42'12	direct	2028 Jun 22 22:13	3° Ⅱ 10'47	
max. Earth dist.	2026 Jan 08 06:38	18° る 21'39	1.71096 AU	greatest brilliancy	2028 Jul 03 05:03	5° Ⅱ 04'04	-4.7m
	2026 Jan 17 12:43	0° ≈			2028 Aug 07 15:26	0 \circ \odot	
	2026 Feb 10 10:19	0° ∀		morning max el	2028 Aug 10 16:03	2° © 51'20	45°46'57
evening rise	2026 Feb 16 23:02	8°) (10′33			2028 Sep 05 23:18	$0^{\circ}\Omega$	
	2026 Mar 06 10:46	$0^{\circ}\mathbf{\Upsilon}$		asc. node	2028 Sep 26 00:36	22° Ω 34'19	
	2026 Mar 30 16:01	0°8			2028 Oct 02 10:08	0° mp	
asc. node	2026 Apr 11 05:37	14° 8 12'35			2028 Oct 27 13:52	0° <u>v</u>	
use. noue	2026 Apr 24 04:03	0°II			2028 Nov 21 00:58	0° M	
	2026 May 19 01:05	0. 0.			2028 Dec 15 03:39	0° ∡ 7	
	2026 Jun 13 10:47	0°Ω			2029 Jan 08 02:47	% ਨ	
				4 4-		0 る 9° る 21'44	
	2026 Jul 09 17:22	0° m/y		desc. node	2029 Jan 15 13:58		
desc. node	2026 Jul 31 18:49	23° m 50'05			2029 Feb 01 01:03	0° ≈	
	2026 Aug 06 19:13	0∘ ⊽		morning set	2029 Feb 11 11:32	13° ≈ 04'38	
evening max el	2026 Aug 15 06:32	8° ≏ 20'48	45°53'32		2029 Feb 25 00:03	0° ∀	
	2026 Sep 10 08:07	0°M₊			2029 Mar 21 01:04	0° Y	
greatest brilliancy	2026 Sep 24 06:42	7° ™ 00'12	-4.8m				
retrograde	2026 Oct 03 07:16	8°M29'28		superior conj	2029 Mar 23 20:12	3° Y 28′53	-1°22'19
evening set	2026 Oct 19 17:48	3°M23'11		minimum elong	2029 Mar 24 02:20	3° Ƴ 47'58	1°22'14
inferior conj	2026 Oct 24 03:44	0°M45'03	-6°30'50	max. Earth dist.	2029 Mar 27 17:43	8° Y 19'37	1.72292 AU
minimum elong	2026 Oct 24 14:14	0°M28'57	6°28'36		2029 Apr 14 05:06	0° ႘	
min. Earth dist.	2026 Oct 25 01:48	0°M11'15	0.27280 AU	evening rise	2029 May 01 16:35	21° 8 34'50	
	2026 Oct 25 09:10	30°R ≏	***********	asc. node	2029 May 08 17:24	0° Ⅱ 14'15	
morning rise	2026 Oct 29 10:06	27° £ 36'49		use. Houe	2029 May 08 12:46	0°II	
direct	2026 Nov 14 00:27	27 ⊆ 3049 22° ⊆ 51'49			2029 Jun 02 00:11	0°©	
asc. node	2026 Nov 21 22:05	24° £ 03'38	4.0		2029 Jun 26 15:37	0° N	
greatest brilliancy	2026 Nov 25 02:39	25° Ω 09'58	-4.9m		2029 Jul 21 12:21	0° m)	
	2026 Dec 04 08:13	0° ™			2029 Aug 15 17:06	0∘ 亚	
morning max el	2027 Jan 03 17:58	26°M15'57	46°57'01	desc. node	2029 Aug 28 06:42	14° ≏ 44'44	
	2027 Jan 07 08:53	0° ∡ ¹			2029 Sep 10 10:54	0° M ₊	
	2027 Feb 03 14:31	0° ප			2029 Oct 07 04:47	0° ∡ ¹	
	2027 Mar 01 06:32	0° ≈		evening max el	2029 Oct 27 10:52	21° ∡ 12'55	47°01'08
desc. node	2027 Mar 13 11:45	14° ≈ 33'57			2029 Nov 05 13:39	8°0	
	2027 Mar 26 08:17	0°) €		greatest brilliancy	2029 Dec 06 23:38	22° る 06'57	-4.9m
	2027 Apr 20 03:57	0° Y		retrograde	2029 Dec 16 23:48	24° පි 01'42	
	2027 May 14 21:02	0°8		asc. node	2029 Dec 19 09:59	23° る 54'25	
	2027 Jun 08 12:33	0° Ⅱ		evening set	2029 Dec 31 15:07	19° る 44'57	
	2027 Jul 03 02:02	0ಂತಾ		min. Earth dist.	2030 Jan 05 22:29	16° පි 38'33	0.26550 AU
asc. node	2027 Jul 04 15:03	1°953'22		inferior conj	2030 Jan 06 13:18	16° ප 15'55	4°30'31
morning set	2027 Jul 06 15:14	4°920'58		minimum elong	2030 Jan 06 04:12	16°る13'33	4°27'57
morning set		4 3 20 38		•		13°る11'57	4 2/3/
F 41 F 4	2027 Jul 27 12:31		1.72164 ATT	morning rise	2030 Jan 11 17:36		
max. Earth dist.	2027 Aug 08 22:02	13~661/14	1.73164 AU	direct	2030 Jan 26 21:33	8°る37'41	4.0
	2027 4 12 11	100 00	101.41.5	greatest brilliancy	2030 Feb 05 09:21	10° ට 20'34	-4.9m
superior conj	2027 Aug 12 00:21	19° Ω 06'40			2030 Mar 06 12:51	0° ≈	
minimum elong	2027 Aug 11 16:55	18° Ω 43'42	1°14'35	morning max el	2030 Mar 17 23:55	10° ≈ 51'53	46°36'30
	2027 Aug 20 19:43	0° ™			2030 Apr 05 09:19	0°)	
	2027 Sep 14 00:25	0∘ ⊽		desc. node	2030 Apr 09 23:29	4° ¥ 59'31	
evening rise	2027 Sep 17 10:27	4° ≏ 14'36			2030 May 02 06:37	0° Y	
-	2027 Oct 08 03:59	0° M.			2030 May 28 03:33	0°8	
desc. node	2027 Oct 24 04:31	19° M 54'18			2030 Jun 22 12:23	0°II	
	2027 Nov 01 07:35	0° ⊼			2030 Jul 17 12:46	0°©	
	01 07.00				12.10		

	2020 4 01 02 50	150010155			2022 E. 1. 05. 05.25	0000	
asc. node	2030 Aug 01 02:58	17° © 40'57			2033 Feb 05 05:27	0° Υ	
	2030 Aug 11 05:24	$0 {\circ} \Omega$		greatest brilliancy	2033 Feb 17 04:53	6° Y 28′07	-4.9m
	2030 Sep 04 14:50	0° m ∕		retrograde	2033 Feb 27 15:41	8° Y 31'52	
morning set	2030 Sep 12 21:57	10° Mp 16'27		evening set	2033 Mar 17 12:49	2° Ƴ 19'17	
	2030 Sep 28 18:34	0∘ ⊽		inferior conj	2033 Mar 20 16:05	0° Y 21′38	8°30'58
max. Earth dist.	2030 Oct 17 20:00	23° ≏ 48'36	1.71760 AU	minimum elong	2033 Mar 20 21:01	0° Υ 13'51	8°30'36
				min. Earth dist.	2033 Mar 20 06:02	0° Ƴ 37'30	0.28011 AU
superior conj	2030 Oct 20 11:12	27° ♀ 06'24	1°05'28		2033 Mar 21 05:49	30°₽)	
minimum elong	2030 Oct 20 21:17	27° ≏ 37'57	1°05'10	morning rise	2033 Mar 24 05:29	28° ¥ 09'17	
Č	2030 Oct 22 18:40	0°M		direct	2033 Apr 10 15:27	22°) 21'03	
	2030 Nov 15 17:01	0° ⊼ 7		greatest brilliancy	2033 Apr 19 21:18	23°) 56'23	-4.8m
desc. node	2030 Nov 20 16:21	6° √ 14'17		greatest stilliane)	2033 May 02 03:13	0°Υ	
evening rise	2030 Nov 29 11:26	17°×716'28		desc. node	2033 May 07 11:11	3° Υ 38'19	
evening rise		0°る			2033 May 07 11:11 2033 May 29 17:32	22° Υ 47'59	15052152
	2030 Dec 09 14:52	0°≈		morning max el	•		45 55 55
	2031 Jan 02 13:14				2033 Jun 06 01:09	0° B	
	2031 Jan 26 13:49	0°) €			2033 Jul 04 06:37	0°∏	
	2031 Feb 19 19:30	0° Υ			2033 Jul 30 17:00	0° ©	
asc. node	2031 Mar 13 19:41	26° Y 50′03			2033 Aug 25 04:29	0 \circ Ω	
	2031 Mar 16 10:42	0°8		asc. node	2033 Aug 28 14:47	4° Ω 06′15	
	2031 Apr 10 18:01	Π $^{\circ}0$			2033 Sep 19 00:09	0° m y	
	2031 May 07 06:06	0 \circ ∞			2033 Oct 13 08:32	0∘ ত	
evening max el	2031 Jun 02 03:34	26° © 47'28	45°24'11		2033 Nov 06 09:45	0° M $_{\circ}$	
	2031 Jun 05 12:57	$0 {\circ} \Omega$		greatest brilliancy	2033 Nov 22 18:54	20°MJ33'07	-3.9m
desc. node	2031 Jul 03 09:03	21° Ω 22'49		morning set	2033 Nov 23 21:41	21°M57'15	
greatest brilliancy	2031 Jul 10 04:57	24° Ω 27'26	-4.7m	· ·	2033 Nov 30 07:17	0° ∡ ¹	
retrograde	2031 Jul 20 17:08	26° Ω 25'37		desc. node	2033 Dec 18 04:11	22° ∡ *28'58	
evening set	2031 Aug 06 11:10	21° Ω 07'13		dese. node	2033 Dec 24 03:31	0°る	
inferior conj	2031 Aug 11 03:01	18° Ω 17'13	7°31'36		2033 DCC 24 03.31	ů O	
minimum elong	2031 Aug 10 18:22	18° Ω 30'41		superior conj	2034 Jan 04 02:10	13° る 46'23	0°20'06
•	=						
min. Earth dist.	2031 Aug 11 06:01		0.28893 AU	minimum elong	2034 Jan 03 16:36	13° る 16'17	
morning rise	2031 Aug 15 01:26	15° Ω 52'32		max. Earth dist.	2034 Jan 05 08:27	15° පි 21'36	1.71083 AU
direct	2031 Sep 01 17:57	10° Ω 01'11			2034 Jan 16 23:49	0° ≈	
greatest brilliancy	2031 Sep 12 10:29	12° Ω 06′14	-4.8m		2034 Feb 09 21:23	0° ∀	
	2031 Oct 09 06:33	0° m)		evening rise	2034 Feb 14 09:36	5°) 38'45	
morning max el	2031 Oct 21 14:12	11° m)35'59	46°23'07		2034 Mar 05 21:51	0° Y	
asc. node	2031 Oct 24 12:22	14° Mp 32'11			2034 Mar 30 03:12	9° 8	
	2031 Nov 08 02:59	0∘ ⊽		asc. node	2034 Apr 10 07:36	13° 8 44'05	
	2031 Dec 04 09:09	0° M			2034 Apr 23 15:30	$\Pi^{\circ}0$	
	2031 Dec 29 09:17	0° ∡ ¹			2034 May 18 13:05	0 \circ \odot	
	2032 Jan 22 20:56	0°ප			2034 Jun 12 23:49	$0^{\circ}\Omega$	
desc. node	2032 Feb 13 01:53	26° ප 11'40			2034 Jul 09 08:34	0° m)	
	2032 Feb 16 03:41	0° ≈		desc. node	2034 Jul 30 20:52	23° m 06'28	
	2032 Mar 11 09:04	0° ∀		dese. node	2034 Aug 06 15:55	0∘ ⊽	
	2032 Apr 04 14:58	0°Υ		evening max el	2034 Aug 12 19:00	5° ₽ 59'32	45°51'21
morning set	2032 Apr 26 01:56	26° Υ 29'20		evening max er	2034 Sep 11 16:18	0° ™	43 3121
morning set	•	0°8		arantaat brillianav	•	4°M38'37	-4.8m
	2032 Apr 28 22:18			greatest brilliancy	2034 Sep 21 19:46		-4.0111
	2032 May 23 07:10	Π °0		retrograde	2034 Sep 30 19:37	6°M07'43	
	2022 1 02 00 07	120 П22122	0006147	evening set	2034 Oct 17 10:05	0°M56'15	
superior conj	2032 Jun 02 09:07	12° Ⅱ 23'32			2034 Oct 19 00:40	30° ₹ Ω	60 4 5 1 5 1
minimum elong	2032 Jun 02 10:33	12° Ⅱ 27'56	0°06'43	inferior conj	2034 Oct 21 17:04	28° ≏ 22'30	
behind sun begin	2032 Jun 01 13:40	11° Ⅱ 23'45		minimum elong	2034 Oct 22 03:27	28° ≏ 06'36	
behind sun end	2032 Jun 03 07:26	13° Ⅲ 32′06		min. Earth dist.	2034 Oct 22 15:50	27° ≏ 47'40	0.27350 AU
max. Earth dist.	2032 Jun 03 01:28	13° Ⅱ 13'45	1.73513 AU	morning rise	2034 Oct 26 20:15	25° ≏ 18'41	
asc. node	2032 Jun 05 05:19	15° Ⅱ 53'03		direct	2034 Nov 11 14:02	20° ₽ 27'53	
	2032 Jun 16 17:00	0 \circ		asc. node	2034 Nov 21 00:09	22° ≏ 08'45	
evening rise	2032 Jul 08 15:38	26° © 57'28		greatest brilliancy	2034 Nov 22 18:05	22° ≗ 47'37	-4.9m
-	2032 Jul 11 03:04	$0^{\circ}\Omega$			2034 Dec 05 12:04	0° M ₊	
	2032 Aug 04 13:20	o∘ m p		morning max el	2035 Jan 01 07:27	23°M50'05	46°56'45
	2032 Aug 29 00:40	0∘ ⊽		<i>3</i> 2-	2035 Jan 07 06:00	0° ⊼	
	2032 Sep 22 14:23	0°M			2035 Feb 03 06:29	0°ਤ	
desc. node	2032 Sep 24 18:36	2°M38'50			2035 Feb 28 20:23	0°≈	
3000. Houe	2032 Scp 24 18:30 2032 Oct 17 08:00	2 11 0 3630		desc. node	2035 Pco 28 20:23 2035 Mar 12 13:40	0 ∞ 14°≈00'07	
				uese. Hout			
	2032 Nov 11 08:04	ව°0			2035 Mar 25 20:56	0°) €	
	2032 Dec 06 21:48	0° ≈			2035 Apr 19 15:52	0°Υ •••	
_	2033 Jan 02 23:35	0°) {			2035 May 14 08:26	0°8	
evening max el	2033 Jan 07 20:06	5°) €01'47	47°11'27		2035 Jun 07 23:37	0°Щ	
asc. node	2033 Jan 15 22:02	13°) €01'42			2035 Jul 02 12:53	0	

	2025 I-1 02 17:11	10637(120		: <i>£</i> :	2029 I 04 01-27	120746105	4900150
asc. node	2035 Jul 03 17:11	1°526'39		inferior conj	2038 Jan 04 01:27	13° る 46'05	4°08'59
morning set	2035 Jul 04 09:30	2° © 16'36		minimum elong	2038 Jan 03 16:54	13°る59'09	4°06'30
	2035 Jul 26 23:18	0 ° Ω		morning rise	2038 Jan 09 08:43	10° පි 38'26	
max. Earth dist.	2035 Aug 06 19:10	13° Ω 20′56	1.73207 AU	direct	2038 Jan 24 10:20	6° る 08'23	
		_		greatest brilliancy	2038 Feb 02 22:12	7° る 51'50	-4.9m
superior conj	2035 Aug 09 18:40	17° Ω 01'39			2038 Mar 06 17:53	0° ≈	
minimum elong	2035 Aug 09 10:54		1°13'01	morning max el	2038 Mar 15 13:50	8° ≈ 29'03	46°37'56
	2035 Aug 20 06:33	0° m)			2038 Apr 05 03:23	0° ∀	
	2035 Sep 13 11:24	0∘ ⊽		desc. node	2038 Apr 09 01:35	4° ℋ 17'45	
evening rise	2035 Sep 15 02:55	2° ჲ 02'36			2038 May 01 21:17	0° Y	
	2035 Oct 07 15:13	0°M₊			2038 May 27 16:34	0°B	
desc. node	2035 Oct 23 06:31	19° M 25′06			2038 Jun 22 00:29	Π $^{\circ}0$	
	2035 Oct 31 19:06	0° ∡ 7			2038 Jul 17 00:17	0 \circ	
	2035 Nov 24 23:51	8°0		asc. node	2038 Jul 31 04:57	17° © 12'35	
	2035 Dec 19 07:00	0° ≈			2038 Aug 10 16:34	$0^{\circ}\Omega$	
	2036 Jan 12 20:24	0° ∀			2038 Sep 04 01:51	0° m)	
	2036 Feb 07 00:26	0° Y		morning set	2038 Sep 10 14:41	8° m 05'31	
asc. node	2036 Feb 13 09:44	7° Y ′24'53			2038 Sep 28 05:33	0∘ ⊽	
	2036 Mar 04 13:34	0°B		max. Earth dist.	2038 Oct 15 07:23	21° ₽ 19'35	1.71809 AU
evening max el	2036 Mar 20 03:25	16° 8 11'03	46°09'29				
C	2036 Apr 04 01:54	Π°		superior conj	2038 Oct 18 01:41	24° ≏ 46'56	1°07'41
greatest brilliancy	2036 Apr 27 17:57	15° Ⅲ 20′15	-4.8m	minimum elong	2038 Oct 18 11:31	25° ≏ 17'42	1°07'23
retrograde	2036 May 08 15:58	17° Ⅲ 31'42		Z .	2038 Oct 22 05:43	0° M	
evening set	2036 May 23 21:47	13° Ⅱ 00'22			2038 Nov 15 04:12	0° ⊼ 7	
inferior conj	2036 May 30 02:25		1°08'57	desc. node	2038 Nov 19 18:31	5° х 45′52	
minimum elong	2036 May 30 04:56	9° ∏ 12'38	1°08'13	evening rise	2038 Nov 26 22:43	14° × 745'54	
min. Earth dist.	2036 May 30 02:19	9° П 16'44	0.28826 AU	evening rise	2038 Dec 09 02:12	0°る	
desc. node	2036 Jun 03 23:07	6° П 17'53	0.20020 AC		2039 Jan 02 00:46	0° ≈	
morning rise	2036 Jun 05 12:13	5° П 25'22			2039 Jan 26 01:32	0° ∺	
direct	2036 Jun 20 14:12	1° П 01'07			2039 Feb 19 07:32	0°Υ	
	2036 Jun 30 21:02	1 П 01 07 2° П 54'47	4.7	asc. node	2039 Feb 19 07.32 2039 Mar 12 21:41	26° Υ 18'25	
greatest brilliancy		2 H3447 0°95	-4. /III	asc. node		0° 8	
	2036 Aug 07 14:37		45046122		2039 Mar 15 23:17		
morning max el	2036 Aug 08 08:37	0°542'50	45°46'23		2039 Apr 10 07:45	0°II	
	2036 Sep 05 15:12	0°N			2039 May 06 22:26	0.ee	4500 410 4
asc. node	2036 Sep 25 02:39	21° Ω 59'56		evening max el	2039 May 30 19:33	24° © 36'33	45°24'34
	2036 Oct 01 23:39	0° m)			2039 Jun 05 13:35	0°Ω	
	2036 Oct 27 02:21	0∘ ⊽		desc. node	2039 Jul 02 11:08	19° Ω 56'55	
	2036 Nov 20 12:57	0° M -		greatest brilliancy	2039 Jul 07 20:09	22° Ω 16'41	-4.7m
	2036 Dec 14 15:21	0° ∡		retrograde	2039 Jul 18 08:36	24° Ω 15′04	
	2037 Jan 07 14:16	0°る		evening set	2039 Aug 03 23:58	19° Ω 01'24	
desc. node	2037 Jan 14 16:04	8° る 52'25		inferior conj	2039 Aug 08 19:02	16° Ω 06'26	
	2037 Jan 31 12:23	0° ≈		minimum elong	2039 Aug 08 10:03		7°19'57
morning set	2037 Feb 08 21:37	10° ≈ 30'32		min. Earth dist.	2039 Aug 08 21:24	16° Ω 02'45	0.28909 AU
	2037 Feb 24 11:15	0° ℋ		morning rise	2039 Aug 12 20:00	13° Ω 37'41	
	2037 Mar 20 12:10	0 ° Υ		direct	2039 Aug 30 10:14	7° Ω 50′23	
				greatest brilliancy	2039 Sep 10 01:44	9° € 53'59	-4.8m
superior conj	2037 Mar 21 09:16	1° Y ′05'39	-1°23'20		2039 Oct 09 10:10	0° m)	
minimum elong	2037 Mar 21 14:38	1° Y ′22'21	1°23'16	morning max el	2039 Oct 19 04:21	9° m 17′23	46°21'31
max. Earth dist.	2037 Mar 25 06:07	5° Y 54'30	1.72238 AU	asc. node	2039 Oct 23 14:27	13° m 44'49	
	2037 Apr 13 16:10	0° ႘			2039 Nov 07 20:13	0∘ ⊽	
evening rise	2037 Apr 29 08:12	19° 8 21'03			2039 Dec 03 23:27	0° M	
asc. node	2037 May 07 19:32	29° 8 46'45			2039 Dec 28 22:19	0° ∡ ¹	
	2037 May 07 23:51	$\Pi^{\circ}0$			2040 Jan 22 09:17	0° ろ	
	2037 Jun 01 11:23	0°€		desc. node	2040 Feb 12 03:49	25° る 40'38	
	2037 Jun 26 03:06	$0^{\circ}\Omega$			2040 Feb 15 15:35	0° ≈	
	2037 Jul 21 00:23	0° m			2040 Mar 10 20:39	0° ∀	
	2037 Aug 15 06:06	0∘ <u>v</u>			2040 Apr 04 02:16	0° Y	
desc. node	2037 Aug 27 08:39	14° Ω 10'37		morning set	2040 Apr 23 17:40	24° Υ 15'43	
	2037 Sep 10 01:38	0°M		<i>5</i>	2040 Apr 28 09:22	0°8	
	2037 Oct 06 23:03	0° ∡ 7			2040 May 22 18:06	0°II	
evening max el	2037 Oct 25 01:24	18° ⋌ ¹50'50	46°59'07		, 10.00	. —	
	2037 Nov 05 18:58	0°중	,	superior conj	2040 May 31 02:25	10° Ⅱ 15'40	-0°10'01
greatest brilliancy	2037 Dec 04 12:07	19° る 36'35	-4 9m	minimum elong	2040 May 31 04:31	10° Ⅲ 22'09	
retrograde	2037 Dec 04 12:07 2037 Dec 14 12:47	19 3 3033	1./111	behind sun begin	2040 May 30 10:27	9° П 26'36	J J J J T
asc. node	2037 Dec 14 12:47 2037 Dec 18 12:10	21°る11'37		behind sun end	2040 May 31 22:36	9 H 20 30 11° H 17'41	
evening set	2037 Dec 18 12:10 2037 Dec 29 01:26	17° る 17'39		max. Earth dist.	2040 May 31 22:44	11° I I1/41	1.73490 AU
=			0.26523 AU	asc. node	2040 Jun 04 07:23	11 Щ18 08 15°Щ25'55	1.73470 AU
min. Earth dist.	2038 Jan 03 11:23						

	2040 Jun 16 03:53	0ංම		greatest brilliancy	2042 Nov 20 09:05	20° Ω 25'33	-4.9m
evening rise	2040 Jul 06 10:23	24°953'57			2042 Dec 06 08:11	0° M	
	2040 Jul 10 14:02	$0^{\circ}\Omega$		morning max el	2042 Dec 29 22:02	21°M27'39	46°56'34
	2040 Aug 04 00:30	0° m ∕			2043 Jan 07 02:12	0° ∡ ¹	
	2040 Aug 28 12:09	0∘ ⊽			2043 Feb 02 22:00	0°ಕ	
	2040 Sep 22 02:21	0° M .			2043 Feb 28 09:54	0° ≈	
desc. node	2040 Sep 23 20:42	2°ML08'42		desc. node	2043 Mar 11 15:47	13° ≈ 27'36	
	2040 Oct 16 20:40	0° ∡			2043 Mar 25 09:22	0° ∀	
	2040 Nov 10 21:53	0°ಕ			2043 Apr 19 03:37	0° Υ	
	2040 Dec 06 13:43	0° ≈			2043 May 13 19:45	0°8	
	2041 Jan 02 20:37	0° ∀			2043 Jun 07 10:38	0°Π	
evening max el	2041 Jan 05 09:58	2° H 37'50	47°12'23		2043 Jul 01 23:42	0.ee	
asc. node	2041 Jan 14 23:55	12°) €03'44		morning set	2043 Jul 02 03:25	0°511'22	
	2041 Feb 06 11:59	0° Υ 4° Υ 09'09	4.0	asc. node	2043 Jul 02 19:10	0°959'37	
greatest brilliancy retrograde	2041 Feb 14 20:54 2041 Feb 25 06:07	4 1 09 09 6° Υ 11'48	-4.9m	max. Earth dist.	2043 Jul 26 10:00 2043 Aug 04 17:08	0°Ω 11°Ω27'34	1.73242 AU
evening set	2041 Feb 23 00:07 2041 Mar 15 05:05	29° H 57'36		max. Earth dist.	2043 Aug 04 17.06	11 062/34	1.73242 AU
evening set	2041 Mar 15 03:03 2041 Mar 15 03:31	30° R ₩		superior conj	2043 Aug 07 12:40	14° Ω 55'59	1011/33
inferior conj	2041 Mar 18 06:47	28° \ 02'22	8°36'21	minimum elong	2043 Aug 07 12:40 2043 Aug 07 04:36		1°11'20
minimum elong	2041 Mar 18 10:58	27°\ 55'46		minimum ciong	2043 Aug 19 17:16	0° m)	1 11 20
min. Earth dist.	2041 Mar 17 20:17	28°) 18'56		evening rise	2043 Sep 12 19:20	29° m 50'56	
morning rise	2041 Mar 21 17:04	25°) 54'33	0.27907110	evening rise	2043 Sep 12 22:15	0∘ ⊽	
direct	2041 Apr 08 05:08	20°) €02'36			2043 Oct 07 02:18	0°M	
greatest brilliancy	2041 Apr 17 11:04	21°) (37'40	-4.8m	desc. node	2043 Oct 22 08:40	18°M56'51	
,	2041 May 03 04:08	$0^{\circ}\mathbf{\Upsilon}$			2043 Oct 31 06:28	0°⊀	
desc. node	2041 May 06 13:18	2° Y 27'05			2043 Nov 24 11:34	8°0	
morning max el	2041 May 27 07:03	20° Y 29'32	45°55'01		2043 Dec 18 19:09	0° ≈	
	2041 Jun 05 21:16	8° 0			2044 Jan 12 09:16	0°)	
	2041 Jul 03 21:43	$\Pi^{\circ}0$			2044 Feb 06 14:41	0 ° Υ	
	2041 Jul 30 06:04	0°©		asc. node	2044 Feb 12 11:47	6° Y 48'22	
	2041 Aug 24 16:33	$0^{\circ}\Omega$			2044 Mar 04 07:08	0° 8	
asc. node	2041 Aug 27 16:46	3° Ω 36′17		evening max el	2044 Mar 17 19:06	13° 8 57'55	46°11'51
	2041 Sep 18 11:41	0° m)			2044 Apr 04 09:09	Π °0	
	2041 Oct 12 19:46	0∘ ⊽		greatest brilliancy	2044 Apr 25 10:00	13° Ⅱ 10′11	-4.8m
	2041 Nov 05 20:51	0°M₊		retrograde	2044 May 06 09:01	15° ∏ 22'27	
morning set	2041 Nov 21 10:02	19°M30'30		evening set	2044 May 21 15:29	10° ∏ 48'58	
	2041 Nov 29 18:20	0° ∡ ¹		inferior conj	2044 May 27 18:42	7° Ⅱ 06'59	
desc. node	2041 Dec 17 06:16	22° ∡ 00'45		minimum elong	2044 May 27 21:56	7° Ⅱ 01'55	1°27'53
	2041 Dec 23 14:33	0°ප		min. Earth dist.	2044 May 27 18:26		0.28814 AU
	2042 I 01 12:17	110712120	0925120	morning rise	2044 Jun 03 04:37	3°Ⅱ16'00	
superior conj	2042 Jan 01 12:17	11° ろ 12'30		desc. node	2044 Jun 03 01:09	3° Ⅱ 20'46	
minimum elong max. Earth dist.	2042 Jan 01 03:25 2042 Jan 02 11:37	10°る44'37 12°る25'56	1.71077 AU	direct	2044 Jun 10 17:15 2044 Jun 18 06:37	30°R と 28° と 51'44	
max. Earm dist.	2042 Jan 02 11.37 2042 Jan 16 10:51	0° ≈	1./10// AU	direct	2044 Jun 26 03:21	28 O 31 44 0° Ⅱ	
	2042 Jan 10 10:31 2042 Feb 09 08:27	0° ∺		greatest brilliancy	2044 Jun 28 12:28	0° П 45'08	-4.7m
evening rise	2042 Feb 11 20:25	3° ∺ 07'43		morning max el	2044 Aug 06 01:26	28° I I35'24	45°45'47
e vennig rise	2042 Mar 05 08:59	0° Υ		morning max or	2044 Aug 07 12:42	0°95	15 15 17
	2042 Mar 29 14:29	0°8			2044 Sep 05 06:40	$0^{\circ}\Omega$	
asc. node	2042 Apr 09 09:42	13° 8 15'43		asc. node	2044 Sep 24 04:49	21° Ω 26'40	
	2042 Apr 23 03:05	Π°			2044 Oct 01 12:51	0° m)	
	2042 May 18 01:14	0°ಅ			2044 Oct 26 14:31	0∘ <u>⊽</u>	
	2042 Jun 12 13:03	$0^{\circ}\Omega$			2044 Nov 20 00:36	0° M	
	2042 Jul 09 00:03	0° m ∕			2044 Dec 14 02:42	0° ∡ ¹	
desc. node	2042 Jul 29 22:49	22° m 21'55			2045 Jan 07 01:26	5°0	
	2042 Aug 06 13:20	0∘ ⊽		desc. node	2045 Jan 13 17:59	8° る 23'33	
evening max el	2042 Aug 10 07:51		45°49'25		2045 Jan 30 23:23	0° ≈	
	2042 Sep 13 15:31	0°M₊		morning set	2045 Feb 06 07:51	7° ≈ 57'51	
greatest brilliancy	2042 Sep 19 08:16	2°M17'05	-4.8m		2045 Feb 23 22:07	0° ∀	
retrograde	2042 Sep 28 08:41	3°M46'49				****	
	2042 Oct 12 08:15	30° ₹ Ω		superior conj	2045 Mar 18 22:23	28°) (43'35	
evening set	2042 Oct 15 02:28	28° £ 29'55	C0.5010.5	minimum elong	2045 Mar 19 02:57	28°) 57'46	1°24'09
inferior conj	2042 Oct 19 06:29	26° Ω 00'32		E d E :	2045 Mar 19 22:56	0°Υ	1 70102 411
minimum elong	2042 Oct 19 16:43	25° Ω 44'54		max. Earth dist.	2045 Mar 22 21:02		1.72183 AU
min. Earth dist. morning rise	2042 Oct 20 05:33 2042 Oct 24 06:25	25° £ 25'18 23° £ 01'30	0.27419 AU	evening rise	2045 Apr 13 02:52 2045 Apr 26 23:51	0° と 17° と 08'27	
direct	2042 Oct 24 06:25 2042 Nov 09 04:04	23° 22 01'30 18° 2 04'37		asc. node	2045 Apr 26 23:51 2045 May 06 21:36	29° 8 20'09	
asc. node	2042 Nov 20 02:15	18 ≗ 0437 20° ≗ 18'49		ase. Houc	2045 May 07 10:34	29 O 2009	
abc. 110dc	20121101 20 02.13	20 -10 -19			2010 111ay 07 10.54	v 4	

	2045 May 31 22:15	0∘ হ্		desc. node	2048 Feb 11 05:58	25° る 11'22	
	2045 Jun 25 14:20	$0^{\circ}\Omega$			2048 Feb 15 03:06	0° ≈	
	2045 Jul 20 12:13	0° m)			2048 Mar 10 07:50	0° ∀	
	2045 Aug 14 18:57	0∘ ত			2048 Apr 03 13:11	0 ° Υ	
desc. node	2045 Aug 26 10:45	13° ≏ 37'27		morning set	2048 Apr 21 09:21	22° Y 02'48	
	2045 Sep 09 16:15	0°M		<i>8</i>	2048 Apr 27 20:05	0°8	
	2045 Oct 06 17:25	0° ⊼ 7			2048 May 22 04:42	0°II	
evening max el	2045 Oct 22 15:56	16° х 29'49	46°57'09		2040 May 22 04.42	υ д	
evening max er	2045 Nov 06 01:57	0°る	40 37 07	superior conj	2048 May 28 19:51	8° Ⅱ 09'16	0012112
4 41 711			4.0		•		
greatest brilliancy	2045 Dec 02 00:59	17°る07'57	-4.9m	minimum elong	2048 May 28 22:38	8° Ⅱ 17'49	0-13/05
retrograde	2045 Dec 12 01:29	19° る 01'46		behind sun begin	2048 May 28 09:31	7° Ⅱ 37'29	
asc. node	2045 Dec 17 14:06	18° る 23'51		behind sun end	2048 May 29 11:45	8° Ⅱ 58'09	
evening set	2045 Dec 26 12:01	14° る 51'16		max. Earth dist.	2048 May 29 18:19	9° Ⅱ 18'17	1.73464 AU
min. Earth dist.	2046 Jan 01 00:31	11° る 37'23	0.26496 AU	asc. node	2048 Jun 03 09:22	14° Ⅱ 59'31	
inferior conj	2046 Jan 01 13:36	11° る 17'24	3°46'54		2048 Jun 15 14:27	0	
minimum elong	2046 Jan 01 05:38	11° る 29'34	3°44'33	evening rise	2048 Jul 04 05:20	22° © 52'09	
morning rise	2046 Jan 06 23:38	8° ප 06'01			2048 Jul 10 00:41	0 $^{\circ}$ Ω	
direct	2046 Jan 21 22:57	3°₹40′18			2048 Aug 03 11:21	0° m)	
greatest brilliancy	2046 Jan 31 11:15	5° る 24'11	-4.9m		2048 Aug 27 23:21	0∘ ত	
	2046 Mar 06 20:42	0° ≈			2048 Sep 21 14:07	0° M .	
morning max el	2046 Mar 13 02:52	6°≈05'04	46°39'23	desc. node	2048 Sep 22 22:48	1° M _39'13	
C	2046 Apr 04 20:37	0°) €			2048 Oct 16 09:15	0° ∡ ¹	
desc. node	2046 Apr 08 03:39	3°) €37'37			2048 Nov 10 11:41	5°0	
dese. node	2046 May 01 11:21	0° Υ			2048 Dec 06 05:43	0° ≈	
	2046 May 27 05:04	0°8			2049 Jan 02 18:10	0°) €	
	2046 Jun 21 12:05	0°II		evening max el	2049 Jan 02 23:07	0° 	47°13'34
	2046 Jul 16 11:22	0° ©		asc. node	2049 Jan 14 02:01	11° X 05'38	4/ 13 34
1-				asc. node		11 π 03 38	
asc. node	2046 Jul 30 06:58	16° © 45'27		4 41 111	2049 Feb 08 08:10		4.0
	2046 Aug 10 03:24	$\Omega^{\circ}\Omega$		greatest brilliancy	2049 Feb 12 12:43	1° Υ 50'34	-4.9m
	2046 Sep 03 12:34	0° m		retrograde	2049 Feb 22 20:43	3° Y ′52'43	
morning set	2046 Sep 08 07:10	5° m 54'42			2049 Mar 08 17:48	30° ₹	
	2046 Sep 27 16:16	0∘ ⊽		evening set	2049 Mar 12 21:01	27° ¥ 37′06	
max. Earth dist.	2046 Oct 12 17:11	18° ≏ 46'39	1.71857 AU	inferior conj	2049 Mar 15 21:30	25°) 43′55	
				minimum elong	2049 Mar 16 00:54	25°) 38'34	8°40'41
superior conj	2046 Oct 15 16:02	22° ≏ 28'08	1°09'47	min. Earth dist.	2049 Mar 15 10:29	26° ₩ 01'16	0.27920 AU
minimum elong	2046 Oct 16 01:32	22° £ 57'52	1°09'30	morning rise	2049 Mar 19 04:57	23°) 40′26	
	2046 Oct 21 16:29	0°M₊		direct	2049 Apr 05 18:37	17°) 44'46	
	2046 Nov 14 15:03	0° ∡ ¹		greatest brilliancy	2049 Apr 15 01:01	19° ∺ 20′02	-4.8m
desc. node	2046 Nov 18 20:30	5° ∡ 18′01			2049 May 03 22:03	0 ° Υ	
evening rise	2046 Nov 24 09:51	12° ⊀ 16′02		desc. node	2049 May 05 15:21	1° Y 18'34	
	2046 Dec 08 13:11	5°0		morning max el	2049 May 24 21:11	18° Ƴ 13'17	45°56'14
	2047 Jan 01 11:55	0° ≈			2049 Jun 05 16:28	8° 0	
	2047 Jan 25 12:54	0° ∀			2049 Jul 03 12:20	$\Pi^{\circ}0$	
	2047 Feb 18 19:12	$0^{\circ}\mathbf{Y}$			2049 Jul 29 18:47	0ංම	
asc. node	2047 Mar 11 23:49	25° Ƴ 48'12			2049 Aug 24 04:19	$0^{\circ}\Omega$	
	2047 Mar 15 11:32	0°8		asc. node	2049 Aug 26 18:58	3° Ω 07'50	
	2047 Apr 09 21:10	0°П			2049 Sep 17 22:56	0° m/y	
	2047 May 06 14:34	0°9			2049 Oct 12 06:48	0∘ ⊽	
evening max el	2047 May 28 10:37	22° © 24'40	45°25'00		2049 Nov 05 07:48	0° M ₊	
e vennig man er	2047 Jun 05 14:56	0° Ω	20 00	morning set	2049 Nov 18 22:17	17°ML03'46	
desc. node	2047 Jul 01 13:02	18° Ω 29'06		morning set	2049 Nov 29 05:18	0° ⊼ ¹	
greatest brilliancy	2047 Jul 05 11:28	20° Ω 07'14	4.7m	desc. node	2049 Dec 16 08:15	21° х 32'30	
			-4 ./III	desc. Hode			
retrograde	2047 Jul 15 23:46	22° Ω 05'52			2049 Dec 23 01:32	0°ಕ	
evening set	2047 Aug 01 12:45	16° Ω 56'37	5 010110		2010 5 20 21 72	00 -70-711	0001116
inferior conj	2047 Aug 06 11:04	13° Ω 56'54		superior conj	2049 Dec 29 21:53	8° る 37'14	
minimum elong	2047 Aug 06 01:47	14°Ω11'24		minimum elong	2049 Dec 29 13:49	8° る 11'49	
min. Earth dist.	2047 Aug 06 13:05		0.28930 AU	max. Earth dist.	2049 Dec 30 15:31		1.71073 AU
morning rise	2047 Aug 10 14:39	11° Ω 24'00			2050 Jan 15 21:49	0° ≈	
direct	2047 Aug 28 02:07	5° Ω 40'33			2050 Feb 08 19:24	0° ∀	
greatest brilliancy	2047 Sep 07 17:41	7° Ω 43'32	-4.8m	evening rise	2050 Feb 09 06:47	0°) 35′38	
	2047 Oct 09 11:56	0° m			2050 Mar 04 19:59	0° Y	
morning max el	2047 Oct 16 18:07	6° ™ 58'33	46°19'55		2050 Mar 29 01:38	9° 8	
asc. node	2047 Oct 22 16:30	12° m 58'40		asc. node	2050 Apr 08 11:45	12° 8 47'35	
	2047 Nov 07 12:53	0。 亚			2050 Apr 22 14:33	Π °0	
	2047 Dec 03 13:23	0° M			2050 May 17 13:16	0ಂಣ	
	2047 Dec 28 10:59	0°⊀			2050 Jun 12 02:12	$0^{\circ}\Omega$	
	2048 Jan 21 21:15	万 °0			2050 Jul 08 15:34	0° m)	

	2050 1 1 20 01 00	210m 27154			2052 1 06 12 12	007	
desc. node	2050 Jul 29 01:00	21° m 37'54			2053 Jan 06 12:42	0°る	
	2050 Aug 06 11:20	0∘ ⊽		desc. node	2053 Jan 12 20:09	7° る 55'03	
evening max el	2050 Aug 07 21:42	1° ≏ 22'36			2053 Jan 30 10:32	0° ≈	
greatest brilliancy	2050 Sep 16 20:14	29° ≏ 56'10	-4.8m	morning set	2053 Feb 03 18:00	5° ≈ 24'21	
	2050 Sep 17 01:04	0°M₊			2053 Feb 23 09:12	0°) €	
retrograde	2050 Sep 25 22:20	1°M26'57					
	2050 Oct 04 11:00	30° ŖΩ		superior conj	2053 Mar 16 11:05	26°) (19′17	-1°24'54
evening set	2050 Oct 12 18:55	26° ≏ 04'48		minimum elong	2053 Mar 16 14:47	26° ¥ 30'49	1°24'53
inferior conj	2050 Oct 16 20:02	23° ₽ 39'31	-7°12'33	Č	2053 Mar 19 09:56	$_0$ ° Υ	
minimum elong	2050 Oct 17 06:01		7°10'45	max. Earth dist.	2053 Mar 20 12:10		1.72129 AU
min. Earth dist.	2050 Oct 17 00:01 2050 Oct 17 18:56	23° Ω 04'33	0.27492 AU	max. Lattii dist.	2053 Apr 12 13:50	0°8	1.72127 AO
		23 ⊆ 04 33 20° ⊆ 45'21	0.27492 AU		•		
morning rise	2050 Oct 21 16:38			evening rise	2053 Apr 24 14:58	14° 8 53'15	
direct	2050 Nov 06 18:44	15° ≙ 42'27		asc. node	2053 May 05 23:33	28° 8 52'24	
greatest brilliancy	2050 Nov 17 23:33	18° ≏ 03'34	-4.9m		2053 May 06 21:33	Π °0	
asc. node	2050 Nov 19 04:14	18° ≏ 33'30			2053 May 31 09:23	0	
	2050 Dec 06 23:02	0° M ₊			2053 Jun 25 01:48	$0 {\circ} \Omega$	
morning max el	2050 Dec 27 13:23	19° ™ 07'17	46°56'03		2053 Jul 20 00:18	0° m)	
	2051 Jan 06 21:51	0° ∡ 7			2053 Aug 14 08:06	0∘ ⊽	
	2051 Feb 02 13:23	აი		desc. node	2053 Aug 25 12:51	13° ≏ 03'27	
	2051 Feb 27 23:24	0° ≈			2053 Sep 09 07:17	0°M	
desc. node	2051 Mar 10 17:54	12°≈54'56			2053 Oct 06 12:27	0° ⊼ 7	
desc. Hode	2051 Mar 24 21:48	0°)		avanina may al	2053 Oct 00 12:27 2053 Oct 20 06:09	0 ✓ 14° ✓ 07'41	46°55'06
		0 K 0°Υ		evening max el			40 33 00
	2051 Apr 18 15:21				2053 Nov 06 11:38	0°る	
	2051 May 13 07:01	0°8		greatest brilliancy	2053 Nov 29 14:39	14° る 40'18	-4.9m
	2051 Jun 06 21:35	Π °0		retrograde	2053 Dec 09 13:52	16° る 32'30	
morning set	2051 Jun 29 21:29	28° Ⅱ 06'46		asc. node	2053 Dec 16 16:09	15° る 30'20	
	2051 Jul 01 10:28	0 \circ ∞		evening set	2053 Dec 23 23:07	12° る 24'51	
asc. node	2051 Jul 01 21:12	0° © 32'55		min. Earth dist.	2053 Dec 29 14:15	9° る 07'08	0.26472 AU
	2051 Jul 25 20:41	$0^{\circ}\Omega$		inferior conj	2053 Dec 30 02:00	8° る 49'09	3°24'35
max. Earth dist.	2051 Aug 02 14:54	9° Ω 33'41	1.73274 AU	minimum elong	2053 Dec 29 18:41	9° ろ 00'20	3°22'22
				morning rise	2054 Jan 04 14:37	5° ට 34'02	
superior conj	2051 Aug 05 06:57	12° Ω 51'16	1°09'48	direct	2054 Jan 19 11:20	1°る12'29	
minimum elong	2051 Aug 05 00:37 2051 Aug 04 22:39			greatest brilliancy	2054 Jan 29 01:01	2°る57'13	4.0m
minimum elong	=		1 09 34	greatest brilliancy			-4.9111
	2051 Aug 19 03:58	0° Mp			2054 Mar 06 22:17	0° ≈	46040120
evening rise	2051 Sep 10 12:12	27° m 40'45		morning max el	2054 Mar 10 15:13	3°≈38'33	46°40'38
	2051 Sep 12 09:06	0∘ ⊽			2054 Apr 04 13:47	0° ∀	
	2051 Oct 06 13:22	0°M		desc. node	2054 Apr 07 05:40	2° 升 56′53	
desc. node	2051 Oct 21 10:40	18° M 28'14			2054 May 01 01:36	0 ° Υ	
	2051 Oct 30 17:50	0° ∡ 7			2054 May 26 17:51	0°B	
	2051 Nov 23 23:18	0°ಕ			2054 Jun 21 00:00	$\Pi^{\circ}0$	
	2051 Dec 18 07:25	0° ≈ ≈			2054 Jul 15 22:46	0°ಲ	
	2052 Jan 11 22:21	0° ∀		asc. node	2054 Jul 29 09:08	16° © 17'54	
	2052 Feb 06 05:18	0° Υ			2054 Aug 09 14:29	$0^{\circ}\Omega$	
asc. node	2052 Feb 11 13:55	6° Υ 11'07			2054 Sep 02 23:33	0° my	
use. Houe	2052 Mar 04 01:22	0°8		morning set	2054 Sep 05 23:46	3° Mp 43'30	
		11° 8 45'36	46014101	morning set	•	0∘ ⊽	
evening max el	2052 Mar 15 11:26		40-14-21	To all the	2054 Sep 27 03:14		1.71000 411
	2052 Apr 04 19:29	0°П	4.0	max. Earth dist.	2054 Oct 10 04:16	16°2216'5/	1.71908 AU
greatest brilliancy	2052 Apr 23 02:36	11° I I00'15	-4.8m		2054.0 : 12 25 15	200 2 0 2:::	1017112
retrograde	2052 May 04 02:07	13° Ⅱ 12'30		superior conj	2054 Oct 13 06:45		1°11'43
evening set	2052 May 19 09:24	8° Ⅱ 37'06		minimum elong	2054 Oct 13 15:53	20° ≏ 38'14	1°11'29
inferior conj	2052 May 25 11:00	4° Ⅱ 56'56	1°48'31		2054 Oct 21 03:31	0°M₊	
minimum elong	2052 May 25 14:56	4° Ⅱ 50'47	1°47'22		2054 Nov 14 02:12	0° ∡ 7	
min. Earth dist.	2052 May 25 10:26	4° Ⅱ 57'49	0.28794 AU	desc. node	2054 Nov 17 22:32	4° ∡ ¹49'20	
morning rise	2052 May 31 20:49	1° Ⅱ 06'17		evening rise	2054 Nov 21 21:24	9° ∡ 46'41	
desc. node	2052 Jun 02 03:08	0° Ⅱ 26′02		C	2054 Dec 08 00:28	გ∘ე	
	2052 Jun 02 23:53	30°R₩			2054 Dec 31 23:21	0° ≈	
direct	2052 Jun 15 23:10	26° 8 42'09			2055 Jan 25 00:32	0° ∀	
	2052 Jun 26 03:16	28° 8 34'24	-4.7m		2055 Feb 18 07:10	0°Υ	
greatest brilliancy		28° O 34°24 0° I I	- 	ana nada		0° γ 25° Υ 16'42	
	2052 Jun 29 16:38		45045112	asc. node	2055 Mar 11 01:49		
morning max el	2052 Aug 03 17:58	26° Ⅱ 27'03	45-45.17		2055 Mar 15 00:08	0° ∀	
	2052 Aug 07 10:03	0°©			2055 Apr 09 11:03	0°II	
	2052 Sep 04 21:59	0 \circ Ω			2055 May 06 07:27	0ა ௐ	
asc. node	2052 Sep 23 06:45	20° Ω 52'42		evening max el	2055 May 26 01:23	20°©10'51	45°25'31
	2052 Oct 01 02:02	0° m)			2055 Jun 05 18:19	$0 {\circ} \Omega$	
	2052 Oct 26 02:44	0∘ ⊽		desc. node	2055 Jun 30 15:14	16° Ω 57'30	
	2052 Nov 19 12:19	0° M		greatest brilliancy	2055 Jul 03 02:42	17° Ω 56'35	-4.7m
	2052 Dec 13 14:08	0° ∡ ¹		retrograde	2055 Jul 13 15:18	19° Ω 56′03	
				-			

evening set	2055 Jul 30 01:41	14° Ω 50'48		minimum elong	2057 Dec 27 00:19	5° ರ 38'31	0°27'38
inferior conj	2055 Aug 04 03:14	14 ∂ℓ 30 48	-6°58'45	max. Earth dist.	2057 Dec 27 00:19 2057 Dec 27 23:08	5 3 50'21	1.71074 AU
minimum elong	2055 Aug 04 05:14 2055 Aug 03 17:41	12° Ω 01'33		max. Lartii dist.	2058 Jan 15 09:03	0°≈	1./10/4 AC
min. Earth dist.	2055 Aug 04 04:58	11° Ω 43'56		evening rise	2058 Feb 06 17:11	28°≈02'40	
morning rise	2055 Aug 08 09:28	9°Ω09'44	0.20) 17 110	evening rise	2058 Feb 08 06:39	0° ∀	
direct	2055 Aug 25 17:51	3° Ω 29'56			2058 Mar 04 07:17	0° Υ	
greatest brilliancy	2055 Sep 05 10:06	5° Ω 33'00	-4.8m		2058 Mar 28 13:04	0°8	
8	2055 Oct 09 12:44	0° m)		asc. node	2058 Apr 07 13:45	12° 8 18'31	
morning max el	2055 Oct 14 08:27	4° m/40'28	46°18'21		2058 Apr 22 02:16	0°II	
asc. node	2055 Oct 21 18:33	12° m) 12'22			2058 May 17 01:35	0° ©	
	2055 Nov 07 05:31	0∘ ⊽			2058 Jun 11 15:42	$0^{\circ}\Omega$	
	2055 Dec 03 03:28	0° M .			2058 Jul 08 07:37	0° m)	
	2055 Dec 27 23:53	0° ∡ ¹		desc. node	2058 Jul 28 03:02	20° m 52'00	
	2056 Jan 21 09:29	0°ರ		evening max el	2058 Aug 05 12:33	29° m 07'30	45°45'40
desc. node	2056 Feb 10 08:02	24° る 41'03			2058 Aug 06 10:36	0∘ 亚	
	2056 Feb 14 14:54	0° ≈		greatest brilliancy	2058 Sep 14 08:16	27° ≏ 34'48	-4.8m
	2056 Mar 09 19:17	0° ∀		retrograde	2058 Sep 23 11:59	29° ≏ 06'21	
	2056 Apr 03 00:22	$0^{\circ}\Upsilon$		evening set	2058 Oct 10 11:25	23° ≏ 39'27	
morning set	2056 Apr 19 01:05	19° Ƴ 49'04		inferior conj	2058 Oct 14 09:40	21° ≏ 18′02	-7°24'42
	2056 Apr 27 07:05	9° 8		minimum elong	2058 Oct 14 19:19	21° ≙ 03'16	7°23'06
	2056 May 21 15:36	$\Pi^{\circ}0$		min. Earth dist.	2058 Oct 15 08:10	20° ≏ 43'39	0.27561 AU
				morning rise	2058 Oct 19 02:49	18° ≏ 28'46	
superior conj	2056 May 26 13:19	6° Ⅱ 01'55	-0°16'24	direct	2058 Nov 04 09:43	13° ≏ 20′08	
minimum elong	2056 May 26 16:46	6° Ⅱ 12'31	0°16'15	greatest brilliancy	2058 Nov 15 13:31	15° ≏ 40'34	-4.9m
max. Earth dist.	2056 May 27 12:49	7° Ⅱ 14'10	1.73443 AU	asc. node	2058 Nov 18 06:19	16° ≏ 51'38	
asc. node	2056 Jun 02 11:29	14° Ⅱ 32'34			2058 Dec 07 10:21	0° M	
	2056 Jun 15 01:22	0		morning max el	2058 Dec 25 04:33	16°M46'06	46°55'24
evening rise	2056 Jul 02 00:14	20°549'12			2059 Jan 06 17:06	0° ∡	
	2056 Jul 09 11:41	$0 {\circ} \Omega$			2059 Feb 02 04:42	0°ಕ	
	2056 Aug 02 22:33	0° m p			2059 Feb 27 12:57	0° ≈	
	2056 Aug 27 10:55	0∘ ⊽		desc. node	2059 Mar 09 19:50	12°≈21'22	
	2056 Sep 21 02:13	0°M			2059 Mar 24 10:20	0°) €	
desc. node	2056 Sep 22 00:46	1°M08'22			2059 Apr 18 03:14	0° Υ	
	2056 Oct 15 22:11	0° ∡			2059 May 12 18:27	0° B	
	2056 Nov 10 01:55	5°0			2059 Jun 06 08:41	0°Ⅱ 26°Ⅱ02'25	
avanina may al	2056 Dec 05 22:19 2056 Dec 31 12:51	0°≈ 27°≈47'58	47014120	morning set	2059 Jun 27 15:46 2059 Jun 30 23:22	26° щ 02′23 0° © 06′10	
evening max el	2057 Jan 02 16:57	2/ ≈ 4/38 0° H	47°14'38	asc. node	2059 Jun 30 23:22 2059 Jun 30 21:21	0. ೧ ನಾಣ 10	
asc. node	2057 Jan 02 16.37 2057 Jan 13 04:11	0 X 10° ¥ 05'19			2059 Jul 30 21.21 2059 Jul 25 07:30	0°Ω	
greatest brilliancy	2057 Feb 10 04:04	29° H 30'14	-1 9m	max. Earth dist.	2059 Jul 31 12:09		1.73306 AU
greatest oriniancy	2057 Feb 11 13:31	25 γ (30 14	- 4 .7III	max. Lartii dist.	2037 341 31 12.07	1 0631 7	1.75500 AC
retrograde	2057 Feb 20 11:44	1° Υ 32'39		superior conj	2059 Aug 03 01:22	10° Ω 46'34	1°07'58
retrograde	2057 Mar 01 02:52	30° R ₩		minimum elong	2059 Aug 02 16:54	10° Ω 20'25	1°07'43
evening set	2057 Mar 10 12:31	25° ¥ 15'58		g	2059 Aug 18 14:51	0° m)	1 07 .5
min. Earth dist.	2057 Mar 13 00:24	23°) (42'48	0.27872 AU	evening rise	2059 Sep 08 05:07	25° m/30'16	
inferior conj	2057 Mar 13 12:10	23°) 24'19	8°44'30	C	2059 Sep 11 20:08	0∘ <u>⊽</u>	
minimum elong	2057 Mar 13 14:44	23° ∺ 20'16			2059 Oct 06 00:38	0° M .	
morning rise	2057 Mar 16 17:08	21°) 24′51		desc. node	2059 Oct 20 12:42	17° M 59'09	
direct	2057 Apr 03 08:13	15°) 25′47			2059 Oct 30 05:23	0° ∡ ¹	
greatest brilliancy	2057 Apr 12 14:35	17°) €01'11	-4.8m		2059 Nov 23 11:14	ರ°0	
	2057 May 04 11:46	$0^{\circ}\mathbf{\Upsilon}$			2059 Dec 17 19:51	0° ≈	
desc. node	2057 May 04 17:21	0° Υ 11'04			2060 Jan 11 11:38	0° ∀	
morning max el	2057 May 22 12:06	15° Y 58′09	45°57'29		2060 Feb 05 20:12	0° Y	
	2057 Jun 05 11:25	9° 8		asc. node	2060 Feb 10 15:52	5° Ƴ 32'41	
	2057 Jul 03 03:05	$\Pi^{\circ}0$			2060 Mar 03 20:14	0° 8	
	2057 Jul 29 07:45	0 \circ \odot		evening max el	2060 Mar 13 03:36	9° 8 32'15	46°16'42
	2057 Aug 23 16:22	$0^{\circ}\Omega$			2060 Apr 05 09:42	Π °0	
asc. node	2057 Aug 25 20:55	2° Ω 37'42		greatest brilliancy	2060 Apr 20 19:49	8° Ⅲ 50′20	-4.8m
	2057 Sep 17 10:30	0° m p		retrograde	2060 May 01 18:43	11° ∐ 01'40	
	2057 Oct 11 18:05	0∘ ⊽		evening set	2060 May 17 03:22	6° Ⅱ 24'26	
	2057 Nov 04 19:00	0° M ₊		inferior conj	2060 May 23 03:13	2° Ⅱ 46'17	2°08'09
morning set	2057 Nov 16 10:45	14°MJ37'07		minimum elong	2060 May 23 07:48	2° Ⅱ 39'04	2°06'50
	2057 Nov 28 16:29	0° ∡ ¹		min. Earth dist.	2060 May 23 02:38	2° Ⅱ 47'12	0.28772 AU
desc. node	2057 Dec 15 10:23	21° ∡ *04'00			2060 May 27 15:30	30°R 8	
	2057 Dec 22 12:44	0°ප		morning rise	2060 May 29 12:40	28° 8 55'58	
	2057 D 27 27 27	(070****	002750	desc. node	2060 Jun 01 05:17	27° 8 33'28	
superior conj	2057 Dec 27 07:32	6° ප 01'13	-0-2739	direct	2060 Jun 13 15:26	24° 8 32'04	

greatest brilliancy	2060 Jun 23 17:58	26° 8 23'00	-4.7m		2062 Dec 31 10:40	0° ≈	
	2060 Jul 01 16:12	Π $^{\circ}0$			2063 Jan 24 12:04	0°) €	
morning max el	2060 Aug 01 09:33	24° Ⅱ 16′20	45°44'45		2063 Feb 17 19:02	0 ° Υ	
	2060 Aug 07 06:42	0 \circ 60		asc. node	2063 Mar 10 03:50	24° Ƴ 45′28	
	2060 Sep 04 13:07	$0^{\circ}\Omega$			2063 Mar 14 12:38	0°8	
asc. node	2060 Sep 22 08:50	20° Ω 19'12			2063 Apr 09 00:54	$\Pi^{\circ}0$	
	2060 Sep 30 15:10	0° m/			2063 May 06 00:29	0°9	
	2060 Oct 25 14:58	0∘ ರ ೧.ಗ		evening max el	2063 May 23 16:04	17° © 57'25	45°26'13
	2060 Nov 19 00:05	0° m .		evening max er	2063 Jun 05 23:15	0°Ω	43 20 13
				1 1			
	2060 Dec 13 01:38	0° ⊼		desc. node	2063 Jun 29 17:16	15° Ω 22'57	
	2061 Jan 06 00:00	0°₹		greatest brilliancy	2063 Jun 30 17:18	15° Ω 45'42	-4.7m
desc. node	2061 Jan 11 22:14	7° る 26'12		retrograde	2063 Jul 11 07:13	17° Ω 46'45	
	2061 Jan 29 21:42	0° ≈		evening set	2063 Jul 27 14:35	12° Ω 45'10	
morning set	2061 Feb 01 03:53	2° ≈ 49'54		inferior conj	2063 Aug 01 19:16	9° Ω 36'47	-6°46'35
	2061 Feb 22 20:16	0° ∀		minimum elong	2063 Aug 01 09:32	9° Ω 51'57	6°44'49
				min. Earth dist.	2063 Aug 01 20:36	9° Ω 34'41	0.28962 AU
superior conj	2061 Mar 13 23:35	23°) 54′22	-1°25'28	morning rise	2063 Aug 06 04:15	6° Ω 55'56	
minimum elong	2061 Mar 14 02:22	24°) 03'03		direct	2063 Aug 23 09:30	1° Ω 19'39	
max. Earth dist.	2061 Mar 18 03:40		1.72074 AU	greatest brilliancy	2063 Sep 03 02:24	3° Ω 23'05	-4.8m
max. Earm uist.		29 γ 0013	1.72074 AU	greatest offinality			-4.0111
	2061 Mar 18 20:56				2063 Oct 09 12:03	0° m/y	46016150
	2061 Apr 12 00:47	0° 8		morning max el	2063 Oct 11 23:40	2° Tp 25'41	46°16'59
evening rise	2061 Apr 22 05:53	12° 8 37'21		asc. node	2063 Oct 20 20:39	11° m)27'46	
asc. node	2061 May 05 01:43	28° 8 25'18			2063 Nov 06 21:31	0∘ ⊽	
	2061 May 06 08:32	Π $^{\circ}0$			2063 Dec 02 17:05	0°M₊	
	2061 May 30 20:32	0 \circ \odot			2063 Dec 27 12:25	0° ∡ ¹	
	2061 Jun 24 13:17	$0^{\circ}\Omega$			2064 Jan 20 21:25	0°る	
	2061 Jul 19 12:23	O° M⊅		desc. node	2064 Feb 09 09:59	24° る 11'09	
	2061 Aug 13 21:15	0∘ <u>⊽</u>			2064 Feb 14 02:26	0° ≈	
desc. node	2061 Aug 24 14:49	12° ₽ 29'08			2064 Mar 09 06:31	0° ∀	
dese. Hode	2061 Sep 08 22:24	0°M			2064 Apr 02 11:20	0°Υ	
	•	0° ⊼ 1			•	17° Υ 34'10	
	2061 Oct 06 07:58		46050140	morning set	2064 Apr 16 16:15		
evening max el	2061 Oct 17 19:13	11° ₹ 42'48	46°52'48		2064 Apr 26 17:51	0°8	
	2061 Nov 07 00:39	0°₹			2064 May 21 02:16	Π °0	
greatest brilliancy	2061 Nov 27 04:36	12° る 12'27	-4.9m				
retrograde	2061 Dec 07 01:33	14° る 02'35		superior conj	2064 May 24 06:20	3° Ⅱ 53'58	-0°19'37
asc. node	2061 Dec 15 18:19	12° る 29'54		minimum elong	2064 May 24 10:26	4° Ⅱ 06'36	0°19'25
evening set	2061 Dec 21 10:10	9° る 57'12		max. Earth dist.	2064 May 25 08:03	5° Ⅱ 13'04	1.73420 AU
min. Earth dist.	2061 Dec 27 04:14	6° る 35'32	0.26454 AU	asc. node	2064 Jun 01 13:33	14° Ⅱ 06'16	
inferior conj	2061 Dec 27 14:12	6° ප් 20'16	3°01'35		2064 Jun 14 12:00	0ಂಣ	
minimum elong	2061 Dec 27 07:36	6° る 30'22		evening rise	2064 Jun 29 18:57	18° 5 346'34	
morning rise	2062 Jan 02 05:16	3° ප 01'33	2 37 33	evening rise	2064 Jul 08 22:25	0°Ω	
morning risc							
	2062 Jan 09 01:53	30°R.✓			2064 Aug 02 09:30	0° my	
direct	2062 Jan 16 23:02	28° ∡ 43'41			2064 Aug 26 22:13	0∘ ⊽	
	2062 Jan 25 02:25	0°₹			2064 Sep 20 14:05	0°M	
greatest brilliancy	2062 Jan 26 15:18	0° る 30'15	-4.9m	desc. node	2064 Sep 21 02:52	0°M38'43	
	2062 Mar 06 22:38	0° ≈			2064 Oct 15 10:52	0° ∡ 7	
morning max el	2062 Mar 08 03:03	1° ≈ 10′31	46°42'01		2064 Nov 09 15:53	5°0	
	2062 Apr 04 06:32	0° ∀			2064 Dec 05 14:45	0° ≈	
desc. node	2062 Apr 06 07:47	2°) 17'04		evening max el	2064 Dec 29 03:28	25° ≈ 26'45	47°15'31
	2062 Apr 30 15:34	$0^{\circ}\mathbf{\Upsilon}$		-	2065 Jan 02 16:13	0°) €	
	2062 May 26 06:25	0°8		asc. node	2065 Jan 12 06:05	9°) 04'00	
	2062 Jun 20 11:45	0°II		greatest brilliancy	2065 Feb 07 18:33	27° ₩ 09'32	-4.9m
	2062 Jul 15 10:00	0 . ಕ		retrograde	2065 Feb 18 03:03	29°) 12'49	1.7111
asc. node	2062 Jul 28 11:07	15°950'14		evening set	2065 Mar 08 03:27	22°)(55'30	0.07007 444
	2062 Aug 09 01:26	0°N		min. Earth dist.	2065 Mar 10 13:50	21°) (24'52	0.27827 AU
	2062 Sep 02 10:21	0°Щ		inferior conj	2065 Mar 11 02:38	21°) (04'47	8°47'16
morning set	2062 Sep 03 16:35	1° m 33'33		minimum elong	2065 Mar 11 04:23	21° 米 02′02	8°47'13
	2062 Sep 26 14:01	0∘ ⊽		morning rise	2065 Mar 14 05:29	19°) €08'48	
max. Earth dist.	2062 Oct 07 18:27	13° ≏ 57'34	1.71960 AU	direct	2065 Mar 31 22:08	13° ∺ 06′56	
				greatest brilliancy	2065 Apr 10 03:34	14°)(41'59	-4.8m
superior conj	2062 Oct 10 21:45	17° £ 52'50	1°13'31	desc. node	2065 May 03 19:30	29° ∺ 06′07	
minimum elong	2062 Oct 11 06:29	18° ≏ 20'05			2065 May 04 21:45	0°Υ	
	2062 Oct 20 14:21	0°M	-	morning max el	2065 May 20 03:44	13° Υ 45'22	45°58'44
	2062 Nov 13 13:10	0° ⊼ ¹			2065 Jun 05 05:38	0°8	
desc. node		0 x ⁴ 4° x 721'41			2065 Jul 02 17:22	0°U	
	2062 Nov 17 00:41						
evening rise	2062 Nov 19 09:10	7° ⊀ 18'38			2065 Jul 28 20:19	0° ⊙	
	2062 Dec 07 11:36	0°ਰ			2065 Aug 23 04:02	$0 {\circ} \Omega$	

asc. node	2065 Aug 24 22:57	2° Ω 08'50		greatest brilliancy	2068 Apr 18 13:26	6° ∏ 42'11	1 8m
asc. node	2065 Sep 16 21:42	0° m		retrograde	2068 Apr 29 10:52	8° П 52'15	-4.0111
	2065 Oct 11 05:04	0∘ ত بانا		evening set	2068 May 14 21:34	8 П 32 13 4° П 12'57	
	2065 Nov 04 05:52	0°M		inferior conj	2068 May 20 19:36	4 П 12 37 0° П 37'07	2°27'36
marning act		12°ML12'43		·	•	0° П 28'53	
morning set	2065 Nov 13 23:36	12°11612'43 0° 7		minimum elong	2068 May 21 00:50	0°Щ28°33 0°Щ37'37	
11-	2065 Nov 28 03:20			min. Earth dist.	2068 May 20 19:17		0.28753 AU
desc. node	2065 Dec 14 12:26	20°♂36'24 0°舌			2068 May 21 19:11	30°₹ ႘	
	2065 Dec 21 23:34	0.0		morning rise	2068 May 27 04:29	26° 8 47'10	
	20/5 D 24 17 22	20727120	0004111	desc. node	2068 May 31 07:18	24° 8 46'13	
superior conj	2065 Dec 24 17:33	3° る 27'38		direct	2068 Jun 11 07:33	22° 8 23'19	4.7
minimum elong	2065 Dec 24 11:15	3° る 07'48		greatest brilliancy	2068 Jun 21 09:24	24° 8 13'23	-4./m
max. Earth dist.	2065 Dec 25 09:14	4°₹16'59	1.71071 AU		2068 Jul 02 23:31	0°II	45044115
	2066 Jan 14 19:52	0°≈		morning max el	2068 Jul 30 00:38	22° ∏ 05'04	45°44'15
evening rise	2066 Feb 04 03:54	25°≈31'51			2068 Aug 07 02:25	0°©	
	2066 Feb 07 17:30	0°) €		1	2068 Sep 04 03:50	0°Ω	
	2066 Mar 03 18:13	$^{\circ \gamma}$		asc. node	2068 Sep 21 10:58	19° Ω 46'41	
,	2066 Mar 28 00:10	0° 8			2068 Sep 30 04:01	0° m)	
asc. node	2066 Apr 06 15:53	11° 8 50'46			2068 Oct 25 02:56	0∘ 亚	
	2066 Apr 21 13:42	0°II			2068 Nov 18 11:36	0°M	
	2066 May 16 13:38	0°©			2068 Dec 12 12:55	0° ∡ 7	
	2066 Jun 11 05:00	0° N			2069 Jan 05 11:08	0°る	
	2066 Jul 07 23:36	0° т р		desc. node	2069 Jan 11 00:09	6° る 57'23	
desc. node	2066 Jul 27 05:00	20° Mp 06'10			2069 Jan 29 08:42	0° ≈	
evening max el	2066 Aug 03 03:36	26° m 53'49	45°43'49	morning set	2069 Jan 29 13:43	0°≈15'43	
	2066 Aug 06 10:34	0∘ ⊽			2069 Feb 22 07:09	0° ∀	
greatest brilliancy	2066 Sep 11 20:37	25° ≙ 15'02	-4.8m				
retrograde	2066 Sep 21 01:11	26° Ω 46'50		superior conj	2069 Mar 11 12:14	21°) 30'29	
evening set	2066 Oct 08 03:55	21° Ω 15'27		minimum elong	2069 Mar 11 14:03	21°) (36'10	
inferior conj	2066 Oct 11 23:20	18° Ω 57'47		max. Earth dist.	2069 Mar 15 17:23		1.72012 AU
minimum elong	2066 Oct 12 08:35				2069 Mar 18 07:43	0° Υ	
min. Earth dist.	2066 Oct 12 21:30	18° £ 23'49	0.27629 AU		2069 Apr 11 11:30	0°8	
morning rise	2066 Oct 16 12:53	16° £ 13'20		evening rise	2069 Apr 19 20:55	10° 8 22'29	
direct	2066 Nov 02 00:40	10° £ 59'03	4.0	asc. node	2069 May 04 03:46	27° 8 58'36	
greatest brilliancy	2066 Nov 13 03:27	13° Ω 18'27	-4.9m		2069 May 05 19:17	0° ©	
asc. node	2066 Nov 17 08:26	15° Ω 14'18			2069 May 30 07:28	0°Ω	
marning may al	2066 Dec 07 18:19 2066 Dec 22 19:06	0° ጤ 14° ጤ 24'20	46°54'52		2069 Jun 24 00:36 2069 Jul 19 00:23	0°Mp	
morning max el	2067 Jan 06 11:28	0°×7	40 34 32		2069 Aug 13 10:22	0∘ ত الأس	
	2067 Feb 01 19:25	0°る		desc. node	2069 Aug 23 16:55	0 = 11° £ 55'18	
	2067 Feb 27 01:58	0°≈		dese. Hode	2069 Sep 08 13:37	0°M	
desc. node	2067 Mar 08 21:58	0 ~ 11° ≈ 49'50			2069 Oct 06 03:57	0° ⊼	
desc. node	2067 Mar 08 21:38 2067 Mar 23 22:23	0°) €		evening max el	2069 Oct 15 07:33	9° ∡ 16'36	46°50'35
	2067 Apr 17 14:42	0°Υ		evening max er	2069 Nov 07 17:47	0°る	40 30 33
	2067 May 12 05:30	0°8		greatest brilliancy	2069 Nov 24 18:28	。 9° ろ 44'49	-4.9m
	2067 Jun 05 19:28	0°II		retrograde	2069 Dec 04 13:11	11° る 33'16	1.5111
morning set	2067 Jun 25 09:55	23° I I58'31		asc. node	2069 Dec 14 20:15	9° る 24'23	
asc. node	2067 Jun 30 01:19	29° ∏ 39'40		evening set	2069 Dec 18 21:25	7° る 29'18	
use. noue	2067 Jun 30 07:57	0.00		inferior conj	2069 Dec 25 02:24	3° る 51'41	2°38'08
	2067 Jul 24 18:02	$0^{\circ}\Omega$		minimum elong	2069 Dec 24 20:34	4° る 00'35	2°36'19
max. Earth dist.	2067 Jul 29 07:36		1.73335 AU	min. Earth dist.	2069 Dec 24 18:18	4° る 04'04	0.26443 AU
man. Darun dist.	2007 041 25 07.50	5 0 0 5 / 22	1.75556110	morning rise	2069 Dec 30 19:47	0° る 29'43	0.201.5110
superior conj	2067 Jul 31 19:38	8° Ω 42'24	1°06'02	morning rise	2069 Dec 31 18:11	30°R. ✓	
minimum elong	2067 Jul 31 11:01	8° Ω 15'49		direct	2070 Jan 14 10:38	26° ∡ 14'47	
	2067 Aug 18 01:26	0° m/		greatest brilliancy	2070 Jan 24 05:58	28° х 03′50	-4.9m
evening rise	2067 Sep 05 21:59	23° m/20'34		8	2070 Jan 28 19:29	0°る	
<i>5</i>	2067 Sep 11 06:53	$0 \circ \overline{\mathbf{v}}$		morning max el	2070 Mar 05 15:34	28° る 44'04	46°43'30
	2067 Oct 05 11:38	0°M			2070 Mar 06 21:53	0° ≈	
desc. node	2067 Oct 19 14:50	17° M 31'08			2070 Apr 03 22:56	0° ∀	
	2067 Oct 19 14:30 2067 Oct 29 16:42	0° √		desc. node	2070 Apr 05 09:50	1° ¥ 37'38	
	2067 Nov 22 22:57	0°ਤ			2070 Apr 30 05:20	0° Υ	
	2067 Dec 17 08:06	0° ≈			2070 May 25 18:48	0°8	
	2068 Jan 11 00:44	0° ∀			2070 Jun 19 23:20	0°II	
	2068 Feb 05 10:55	0°Υ			2070 Jul 14 21:07	0.ee	
asc. node	2068 Feb 09 17:59	4°Υ55'26		asc. node	2070 Jul 27 13:09	15° © 23'02	
	2068 Mar 03 15:07	0°8			2070 Aug 08 12:19	$0^{\circ}\Omega$	
evening max el	2068 Mar 10 19:07	7° 8 18'21	46°19'03	morning set	2070 Sep 01 09:27	29° Ω 23'48	
	2068 Apr 06 03:59	$\Pi^{\circ}0$			2070 Sep 01 21:09	0° m/	

	2070 Sep 26 00:49	0∘ ⊽		inferior conj	2073 Mar 08 16:53	18°) 43′29	8°49'07
max. Earth dist.	2070 Sep 26 00:49 2070 Oct 05 09:55		1.72013 AU	minimum elong	2073 Mar 08 10:33 2073 Mar 08 17:48	18°\(\frac{43}{29}\)	8°49'06
max. Earth dist.	2070 001 03 07.33	11 -42 00	1.72013 AU	morning rise	2073 Mar 11 18:01	16°\(\frac{42}{50}\)'20	0 4700
superior conj	2070 Oct 08 12:45	15° ≏ 35'50	1°15'13	direct	2073 Mar 29 12:16	10°)	
minimum elong	2070 Oct 08 12:49 2070 Oct 08 21:00	16° ⊆ 01'36		greatest brilliancy	2073 Apr 07 15:57	12° ¥ 20'38	-4.8m
minimum ciong	2070 Oct 20 01:14	0°M	1 15 01	desc. node	2073 May 02 21:31	28° \ 01'27	1.0111
	2070 Nov 13 00:10	0° ⊼ 7		desc. node	2073 May 05 05:32	0°Υ	
desc. node	2070 Nov 16 02:40	3° х 53′21		morning max el	2073 May 17 19:20	11° Υ '31'23	45°59'59
evening rise	2070 Nov 16 20:56	4° ₹ ′50'34			2073 Jun 04 23:47	0°8	
<i>y</i>	2070 Dec 06 22:47	0°る			2073 Jul 02 07:49	0°II	
	2070 Dec 30 22:02	0° ≈			2073 Jul 28 09:06	0°9	
	2071 Jan 23 23:41	0°) {			2073 Aug 22 15:56	$0^{\circ}\Omega$	
	2071 Feb 17 07:02	0° Υ		asc. node	2073 Aug 24 01:08	1° Ω 39'46	
asc. node	2071 Mar 09 05:59	24° Y 14'13			2073 Sep 16 09:07	0° m)	
	2071 Mar 14 01:19	0°8			2073 Oct 10 16:16	0∘ <u>⊽</u>	
	2071 Apr 08 14:59	$\Pi^{\circ}0$			2073 Nov 03 17:02	0° M	
	2071 May 05 17:55	0 \circ \odot		morning set	2073 Nov 11 12:35	9° ™ 47'54	
evening max el	2071 May 21 07:38	15° © 46'16	45°27'10		2073 Nov 27 14:31	0° ∡ ¹	
	2071 Jun 06 06:16	$0^{\circ}\Omega$		desc. node	2073 Dec 13 14:27	20° ∡ °07'31	
greatest brilliancy	2071 Jun 28 07:33	13° Ω 34'59	-4.7m		2073 Dec 21 10:47	0°ප	
desc. node	2071 Jun 28 19:12	13° Ω 45′28					
retrograde	2071 Jul 08 23:43	15° Ω 38'11		superior conj	2073 Dec 22 03:24	0° る 52'18	-0°20'17
evening set	2071 Jul 25 03:51	10° Ω 40′00		minimum elong	2073 Dec 21 22:04	0° ರ 35'31	0°20'02
inferior conj	2071 Jul 30 11:31	7° Ω 27'30	-6°33'52	max. Earth dist.	2073 Dec 22 16:35	1° る 33'48	1.71073 AU
minimum elong	2071 Jul 30 01:41	7° Ω 42'50	6°31'59		2074 Jan 14 07:06	0° ≈	
min. Earth dist.	2071 Jul 30 12:07	7° Ω 26'34	0.28978 AU	evening rise	2074 Feb 01 14:03	22° ≈ 57'57	
morning rise	2071 Aug 03 23:17	4° Ω 42'49			2074 Feb 07 04:46	0° ∀	
	2071 Aug 14 14:45	30° ₹ 5			2074 Mar 03 05:33	0° Y	
direct	2071 Aug 21 01:57	29° 5 0'01			2074 Mar 27 11:41	$0^{\circ}B$	
	2071 Aug 27 18:31	$0^{\circ}\Omega$		asc. node	2074 Apr 05 17:54	11° 8 21'26	
greatest brilliancy	2071 Aug 31 18:31	1° Ω 13′26	-4.8m		2074 Apr 21 01:34	Π °0	
	2071 Oct 09 10:29	0° m			2074 May 16 02:10	0ං ම	
morning max el	2071 Oct 09 15:52	0° Mp 13'14	46°15'22		2074 Jun 10 18:50	0 $^{\circ}$ Ω	
asc. node	2071 Oct 19 22:41	10°Mp43'13			2074 Jul 07 16:18	0° m)	
	2071 Nov 06 13:26	0∘ ⊽		desc. node	2074 Jul 26 07:10	19° m ,19'11	
	2071 Dec 02 06:48	0° M		evening max el	2074 Jul 31 18:13	24° m 38'15	45°42'07
	2071 Dec 27 01:05	0° ∡ 7			2074 Aug 06 12:07	0∘ ত	
	2072 Jan 20 09:30	0°ප		greatest brilliancy	2074 Sep 09 09:40	22° ჲ 55'57	-4.8m
desc. node	2072 Feb 08 12:09	23° る 41'25		retrograde	2074 Sep 18 14:11	24° ≏ 27'30	
	2072 Feb 13 14:07	0° ≈		evening set	2074 Oct 05 20:34	18° ≏ 51'58	
	2072 Mar 08 17:54	0° ∀		inferior conj	2074 Oct 09 13:18	16° ≏ 37'52	
	2072 Apr 01 22:29	0° Υ		minimum elong	2074 Oct 09 22:06	16° ≏ 24'21	7°45'17
morning set	2072 Apr 14 07:18	15° Y 18′08		min. Earth dist.	2074 Oct 10 11:18	16° ≏ 04'05	0.27695 AU
	2072 Apr 26 04:50	0°B		morning rise	2074 Oct 13 23:18	13° ≏ 58′08	
	2072 May 20 13:08	Π °0		direct	2074 Oct 30 15:26	8° 亞 38'19	
		_		greatest brilliancy	2074 Nov 10 18:00	10° ≏ 56'57	-4.9m
superior conj	2072 May 21 23:22	1° Ⅱ 45'20		asc. node	2074 Nov 16 10:23	13° ≏ 39'57	
minimum elong	2072 May 22 04:08	1° Ⅱ 59'57			2074 Dec 08 00:16	0°M	46052150
max. Earth dist.	2072 May 23 04:29		1.73391 AU	morning max el	2074 Dec 20 08:40	11°M59'10	46~53'59
asc. node	2072 May 31 15:32	13° Ⅱ 39'07			2075 Jan 06 05:47	0° ∡ ¹	
	2072 Jun 13 22:51	0°55			2075 Feb 01 10:24	0°る	
evening rise	2072 Jun 27 13:52	16°5944'01		4 4.	2075 Feb 26 15:24	0° ≈	
	2072 Jul 08 09:19	0° N		desc. node	2075 Mar 08 00:03	11°≈16'46	
	2072 Aug 01 20:37	0 ം ⊽ 0 ംம்			2075 Mar 23 10:54	0° ∀ 0° Υ	
11-	2072 Aug 26 09:45				2075 Apr 17 02:37		
desc. node	2072 Sep 20 04:57	0°ML08'17 0°M			2075 May 11 16:59 2075 Jun 05 06:38	0°H 0°B	
	2072 Sep 20 02:13 2072 Oct 14 23:55	0°11L 0° √ 7		morning set	2075 Jun 05 06:38 2075 Jun 23 03:48	0°Ц 21° Ц 52'34	
	2072 Oct 14 23:55 2072 Nov 09 06:21	0° ⋜		morning set asc. node	2075 Jun 23 03:48 2075 Jun 29 03:23	21°Щ32′34 29°Щ12'19	
	2072 Nov 09 06:21 2072 Dec 05 07:55	0° ≈		asc. Hout	2075 Jun 29 03:23 2075 Jun 29 18:57	29° Ш 12°19	
evening max el	2072 Dec 05 07:55 2072 Dec 26 18:54	0°≈ 23°≈06'22	47°16'20		2075 Jul 24 04:58	0° U	
evening max ci	2072 Dec 26 18.34 2073 Jan 02 17:07	23 ≈06 22 0°) {	-T/ 10 20	max. Earth dist.	2075 Jul 24 04:38 2075 Jul 27 01:28	3° Ω 30'53	1.73362 AU
asc. node	2073 Jan 11 08:12	8° ₩ 00'22		max. Lattii dist.	2073 Jul 27 U1.20	2 06 20 23	1.75502 AU
greatest brilliancy	2073 Feb 05 08:42	24°) 46'57	-4.9m	superior conj	2075 Jul 29 13:57	6° Ω 37'11	1°04'00
retrograde	2073 Feb 15 18:23	26°) 51'04	1.7111	minimum elong	2075 Jul 29 05:13	6° Ω 10'18	1°03'44
evening set	2073 New 15 18:23 2073 Mar 05 17:47	20° X 33'59			2075 Aug 17 12:24	0° m)	1 00 11
min. Earth dist.	2073 Mar 08 02:52	19° ¥ 05′27	0.27777 AU	evening rise	2075 Sep 03 15:07	21° Mp 10'40	
Dartii dist.	20,5 tul 00 02.52	-> /(0521	J.= , , , , 110	2.06 1100	_0.0 Sep 05 15.07	יין _{דרי}	

	2075 Can 10 19:00	0∘ ত		mamina may al	2079 Mar 02 05:00	26° る 19'49	46°44'48
	2075 Sep 10 18:00			morning max el	2078 Mar 03 05:00		40-44-48
	2075 Oct 04 22:57	0°M			2078 Mar 06 20:13	0° ≈	
desc. node	2075 Oct 18 16:49	17° M .01'43			2078 Apr 03 15:09	0° ∀	
	2075 Oct 29 04:20	0° ∡ ¹		desc. node	2078 Apr 04 11:51	0° ¥ 58'10	
	2075 Nov 22 10:58	0° ප			2078 Apr 29 19:09	0° Y	
	2075 Dec 16 20:44	0° ≈			2078 May 25 07:22	9° 8	
	2076 Jan 10 14:18	0° ∀			2078 Jun 19 11:08	Π $^{\circ}0$	
	2076 Feb 05 02:18	0 $^{\circ}$ $\mathbf{\Upsilon}$			2078 Jul 14 08:27	0 \circ \odot	
asc. node	2076 Feb 08 20:04	4° Υ 16'19		asc. node	2078 Jul 26 15:18	14° © 55'35	
	2076 Mar 03 11:12	0°8			2078 Aug 07 23:23	$0^{\circ}\Omega$	
evening max el	2076 Mar 08 09:36	5° 8 00'00	46°21'22	morning set	2078 Aug 30 02:07	27° Ω 13'06	
<i>5</i>	2076 Apr 07 06:21	0°П		. 8	2078 Sep 01 08:06	0° m)	
greatest brilliancy	2076 Apr 16 07:01	4° Ⅱ 31'46	-4.8m		2078 Sep 25 11:46	0° م	
retrograde	2076 Apr 27 02:38	6° Ⅱ 40'40	-4.0111	max. Earth dist.	2078 Oct 03 01:50	o – 9° ≏ 27'43	1.72064 AU
•	•	1° I I58'53		max. Earth dist.	2078 Oct 03 01.30	9 == 2143	1.72004 AU
evening set	2076 May 12 15:39				2070 0 4 06 02 42	120 0 10121	1017147
	2076 May 15 23:39	30°R8	2016152	superior conj	2078 Oct 06 03:43	13° Ω 18'21	1°16'46
inferior conj	2076 May 18 11:46	28° 8 25'46		minimum elong	2078 Oct 06 11:26	13° Ω 42'26	1°16'37
minimum elong	2076 May 18 17:36	28° 8 16'33	2°45'14		2078 Oct 19 12:15	0° M	
min. Earth dist.	2076 May 18 11:56	28° 8 25'30	0.28732 AU		2078 Nov 12 11:19	0° ⊼	
morning rise	2076 May 24 19:53	24° 8 36'28		evening rise	2078 Nov 14 08:51	2° ∡ ¹22'35	
desc. node	2076 May 30 09:17	22° 8 00'32		desc. node	2078 Nov 15 04:42	3° ≯ ¹24'44	
direct	2076 Jun 08 22:55	20° 8 12'16			2078 Dec 06 10:04	8°0	
greatest brilliancy	2076 Jun 19 01:06	22° 8 02'13	-4.7m		2078 Dec 30 09:28	0° ≈	
,	2076 Jul 03 22:56	$\Pi^{\circ}0$			2079 Jan 23 11:18	0°) €	
morning max el	2076 Jul 27 15:21	19° Ⅱ 51'28	45°43'56		2079 Feb 16 19:01	$0^{\circ}\Upsilon$	
	2076 Aug 06 22:03	0°ಅ		asc. node	2079 Mar 08 07:57	23° Y '42'28	
	2076 Sep 03 18:45	$0^{\circ}\Omega$		use. node	2079 Mar 13 14:02	0°8	
asc. node	2076 Sep 20 12:55	19° Ω 12'42			2079 Mar 13 14:02 2079 Apr 08 05:12	0°U	
asc. node	•				•	0°9	
	2076 Sep 29 17:07	0° m)			2079 May 05 11:50		45005150
	2076 Oct 24 15:09	0° ™		evening max el	2079 May 18 23:57	13° © 36'35	45°27'58
	2076 Nov 17 23:22	0° M			2079 Jun 06 16:15	0 ° Ω	
	2076 Dec 12 00:24	0°⊀		greatest brilliancy	2079 Jun 25 21:44	11° Ω 23'32	-4.7m
	2077 Jan 04 22:27	0° ප		desc. node	2079 Jun 27 21:24	12° Ω 03′56	
desc. node	2077 Jan 10 02:20	6° る 28'47		retrograde	2079 Jul 06 16:13	13° Ω 28'34	
morning set	2077 Jan 26 23:38	27° る 41'00		evening set	2079 Jul 22 17:04	8° Ω 34'01	
	2077 Jan 28 19:56	0° ≈		inferior conj	2079 Jul 28 03:35	5° Ω 17'18	-6°20'27
	2077 Feb 21 18:19	0° ∀		minimum elong	2079 Jul 27 17:40	5° Ω 32'44	6°18'30
				min. Earth dist.	2079 Jul 28 03:14	5° Ω 17'51	0.28991 AU
superior conj	2077 Mar 09 00:35	19°) €04'39	-1°26'06	morning rise	2079 Aug 01 18:09	2° Ω 28'44	
minimum elong	2077 Mar 09 01:26	19°) (07'19			2079 Aug 06 09:57	30° ₹ 55	
max. Earth dist.	2077 Mar 13 03:49	24°) 14'09	1.71958 AU	direct	2079 Aug 18 18:39	26°\$59'46	
max. Latin dist.		0°Υ	1./1/30 AC		2079 Aug 29 09:49	29° © 02'22	1 0
	2077 Mar 17 18:49			greatest brilliancy			-4.8m
	2077 Apr 10 22:35	0° 8			2079 Aug 31 19:23	0°N	46012145
evening rise	2077 Apr 17 11:21	8° 8 04'35		morning max el	2079 Oct 07 08:01	28° Ω 00'44	46°13'45
asc. node	2077 May 03 05:43	27° 8 30'25			2079 Oct 09 08:09	0° ™	
	2077 May 05 06:25	$\Pi^{\circ}0$		asc. node	2079 Oct 19 00:44	9° m 59'09	
	2077 May 29 18:46	0 \circ			2079 Nov 06 05:07	0∘ ⊽	
	2077 Jun 23 12:18	$0 { m ^{\circ}} \Omega$			2079 Dec 01 20:23	0° M	
	2077 Jul 18 12:46	0° mp			2079 Dec 26 13:39	0° ∡ 7	
	2077 Aug 12 23:56	0∘ ত			2080 Jan 19 21:28	0° ප	
desc. node	2077 Aug 22 18:59	11° ≏ 20′10		desc. node	2080 Feb 07 14:11	23° る 11'40	
	2077 Sep 08 05:24	0°M			2080 Feb 13 01:40	0° ≈	
	2077 Oct 06 00:53	0° ∡ 7			2080 Mar 08 05:06	0°) €	
evening max el	2077 Oct 12 20:04	6° ≯ 150'28	46°48'32		2080 Apr 01 09:26	0°Υ	
evening max er		0×3028	40 40 32	marning sat	•	13° Υ 03'16	
	2077 Nov 08 17:03		4.0	morning set	2080 Apr 11 22:33		
greatest brilliancy	2077 Nov 22 07:55	7° る 16'36	-4.9m		2080 Apr 25 15:38	0°8	
retrograde	2077 Dec 02 01:21	9° る 04'16					
asc. node	2077 Dec 13 22:20	6° る 13'55		superior conj	2080 May 19 16:25	29° 8 37'08	
evening set	2077 Dec 16 09:01	5° る 01'02		minimum elong	2080 May 19 21:48	29° 8 53'41	0°25'41
inferior conj	2077 Dec 22 14:41	1° る 23'09			2080 May 19 23:51	Π °0	
minimum elong	2077 Dec 22 09:40	1° る 30'49	2°12'52	max. Earth dist.	2080 May 21 02:41	1°Ⅱ22'34	1.73368 AU
min. Earth dist.	2077 Dec 22 08:10	1° る 33'06	0.26433 AU	asc. node	2080 May 30 17:39	13° Ⅱ 12'44	
	2077 Dec 24 21:33	30°R ✓			2080 Jun 13 09:34	0ಂತಾ	
morning rise	2077 Dec 28 10:17	27° ₹ 58'29		evening rise	2080 Jun 25 08:39	14°9541'21	
direct	2078 Jan 11 22:37	23° × ⁷ 45'57		3 - 7	2080 Jul 07 20:09	0° Ω	
greatest brilliancy	2078 Jan 21 20:20	25° × ³ 37'19	-4 9m		2080 Aug 01 07:41	0° mp	
51 carest brilliancy	2078 Jan 30 20:26	23 x 37 19 0°る	7.7111		2080 Aug 25 21:13	0∘ ⊽ ۱۱۱۸	
	2070 Juli 30 20.20	v O			2000 rug 23 21.13	· —	

dasa mada	2000 Can 10 06:54	29° ₽ 37'35			2002 Mar 22 22:00	0° \	
desc. node	2080 Sep 19 06:54				2083 Mar 22 23:00	0° Υ 0° Υ	
	2080 Sep 19 14:19	0°M.			2083 Apr 16 14:06		
	2080 Oct 14 12:56	0° ∡ ¹			2083 May 11 04:03	0° B	
	2080 Nov 08 20:50	0°る			2083 Jun 04 17:23	0°Щ	
	2080 Dec 05 01:17	0° ≈		morning set	2083 Jun 20 22:05	19° Ⅱ 49'07	
evening max el	2080 Dec 24 10:47	20° ≈ 47'32	47°17'03	asc. node	2083 Jun 28 05:31	28° Ⅱ 46'29	
	2081 Jan 02 19:05	0° ∀			2083 Jun 29 05:30	0ം ഉ	
asc. node	2081 Jan 10 10:20	6°) 55'45			2083 Jul 23 15:28	0 \circ Ω	
greatest brilliancy	2081 Feb 02 23:16	22° ∺ 25'32	-4.9m	max. Earth dist.	2083 Jul 24 20:52	1° Ω 30′30	1.73392 AU
retrograde	2081 Feb 13 09:35	24°) €29'52					
evening set	2081 Mar 03 07:48	18°) (14′03		superior conj	2083 Jul 27 08:38	4° Ω 34'34	1°01'55
min. Earth dist.	2081 Mar 05 16:00	16°) (46′51	0.27720 AU	minimum elong	2083 Jul 26 23:52	4° Ω 07'34	1°01'38
inferior conj	2081 Mar 06 07:12	16°) €23'02	8°50'08		2083 Aug 16 22:59	0° m y	
minimum elong	2081 Mar 06 07:15	16° ¥ 22'58	8°50'09	evening rise	2083 Sep 01 08:38	19° m 03'14	
morning rise	2081 Mar 09 06:55	14°) 32′06			2083 Sep 10 04:46	0∘ ত	
direct	2081 Mar 27 02:36	8° ¥ 27'19			2083 Oct 04 09:59	0° M	
greatest brilliancy	2081 Apr 05 04:15	10°) €00'06	-4.8m	desc. node	2083 Oct 17 18:53	16°M33'26	
desc. node	2081 May 01 23:32	26°) 59'34			2083 Oct 28 15:41	0° ∡ ¹	
	2081 May 05 10:33	$0^{\circ}\Upsilon$			2083 Nov 21 22:46	5°0	
morning max el	2081 May 15 10:06	9° Ƴ 16'29	46°01'13		2083 Dec 16 09:07	0° ≈	
C	2081 Jun 04 17:06	0°8			2084 Jan 10 03:38	0° ₩	
	2081 Jul 01 21:46	0°Ⅲ			2084 Feb 04 17:32	$0^{\circ}\Upsilon$	
	2081 Jul 27 21:31	0°©		asc. node	2084 Feb 07 22:02	3° Y '37'35	
	2081 Aug 22 03:34	$0^{\circ}\Omega$		use. Houe	2084 Mar 03 07:27	0°8	
asc. node	2081 Aug 23 03:03	1° Ω 10'39		evening max el	2084 Mar 05 23:31	2° 8 41'20	46°23'49
ase. Houe	2081 Sep 15 20:19	0° mp		evening max er	2084 Apr 08 18:53	0°Ⅱ	40 23 47
	2081 Sep 13 20:17 2081 Oct 10 03:17	0∘ ʊ 0 ıı⁄ı		greatest brilliancy	2084 Apr 14 00:27	2° II 22'27	-4.8m
	2081 Oct 10 03:17 2081 Nov 03 03:58	0° m		retrograde	2084 Apr 24 18:47	2 Ⅲ 2227 4° Ⅲ 30'51	-4.0111
morning got	2081 Nov 09 01:30	7°M23'39		-		29° 8 46'05	
morning set		/ 11623 39 0° √ 1		evening set	2084 May 10 09:57	30°R B	
1 1	2081 Nov 27 01:27	19° ∡ 39'48			2084 May 10 00:00	26° 8 16'03	3005153
desc. node	2081 Dec 12 16:34	19-8-3948		inferior conj	2084 May 16 04:05	_	
	2001 D 10 12 16	200 717155	001/122	minimum elong	2084 May 16 10:30	26° 8 05'56	
superior conj	2081 Dec 19 13:16	28° ₹ 17'55		min. Earth dist.	2084 May 16 04:42	26° 8 15'05	0.28711 AU
minimum elong	2081 Dec 19 08:57	28° ₹ 04'19	0°16'10	morning rise	2084 May 22 11:17	22° 8 27'50	
behind sun begin	2081 Dec 19 05:05	27° ₹ 52'09		desc. node	2084 May 29 11:28	19° 8 20'56	
behind sun end	2081 Dec 19 12:49	28° ≯ 16'30		direct	2084 Jun 06 14:12	18° 8 02'43	
max. Earth dist.	2081 Dec 19 21:20	28° ≯ 43′18	1.71076 AU	greatest brilliancy	2084 Jun 16 17:15	19° 8 53'10	-4.7m
	2081 Dec 20 21:43	0°ಕ			2084 Jul 04 15:25	Π °0	
	2082 Jan 13 18:04	0° ≈		morning max el	2084 Jul 25 06:39	17° Ⅱ 40'52	45°43'48
evening rise	2082 Jan 30 00:10	20° ≈ 24'38			2084 Aug 06 16:32	0ంల	
	2082 Feb 06 15:46	0° ∀			2084 Sep 03 08:59	0 \circ Ω	
	2082 Mar 02 16:37	$0^{\circ}\Upsilon$		asc. node	2084 Sep 19 14:59	18° Ω 40'43	
	2082 Mar 26 22:53	9° 8			2084 Sep 29 05:42	0° m y	
asc. node	2082 Apr 04 19:54	10° 8 53'03			2084 Oct 24 02:58	0∘ ⊽	
	2082 Apr 20 13:04	Π $^{\circ}0$			2084 Nov 17 10:47	0° M	
	2082 May 15 14:19	0 \circ \odot			2084 Dec 11 11:36	0° ∡ ¹	
	2082 Jun 10 08:21	$0^{\circ}\Omega$			2085 Jan 04 09:31	0°ರ	
	2082 Jul 07 08:54	0° m p		desc. node	2085 Jan 09 04:23	6° る 00'35	
desc. node	2082 Jul 25 09:12	18° Mp 32'03		morning set	2085 Jan 24 09:10	25° る 05'46	
evening max el	2082 Jul 29 07:54	22° m 21'29	45°40'12		2085 Jan 28 06:54	0° ≈	
	2082 Aug 06 14:42	0∘ ⊽			2085 Feb 21 05:10	0°) €	
greatest brilliancy	2082 Sep 06 23:03	20° ≏ 37'58	-4.8m				
retrograde	2082 Sep 16 02:54	22° ≏ 09'08		superior conj	2085 Mar 06 12:36	16° ¥ 38'40	-1°26'11
evening set	2082 Oct 03 12:59	16° ≏ 29'31		minimum elong	2085 Mar 06 12:27	16° ¥ 38'13	1°26'11
inferior conj	2082 Oct 07 03:17	14° ≏ 18'52	-7°56'00	max. Earth dist.	2085 Mar 10 12:53		1.71903 AU
minimum elong	2082 Oct 07 11:33	14° Ω 06'10	7°54'55		2085 Mar 17 05:35	0° Υ	
min. Earth dist.	2082 Oct 08 01:22		0.27764 AU		2085 Apr 10 09:19	0°8	
morning rise	2082 Oct 11 09:45	11° Ω 43'53	0.27701110	evening rise	2085 Apr 15 01:42	5° 8 47'27	
direct	2082 Oct 11 05:43 2082 Oct 28 05:43	6° £ 18'15		asc. node	2085 May 02 07:53	27° 8 03'55	
greatest brilliancy	2082 Oct 28 03:43 2082 Nov 08 09:08	8° £ 37'00	-4.9m	use. Hode	2085 May 04 17:13	0°Ⅱ	
asc. node	2082 Nov 15 12:29	12° £ 09'40	·¬./III		2085 May 04 17:15 2085 May 29 05:45	0°©	
asc. Hour		0°M			2085 May 29 05:45 2085 Jun 22 23:39	0°Ω	
morning mey al	2082 Dec 17 21:32	9°M32'58	46°53'14		2085 Jul 18 00:47	0° m y	
morning max el	2082 Dec 17 21:32	9°11៤32′38 0° √ 1	40 33 14			0ം ⊽ റപ്വർ	
	2083 Jan 05 23:22	0°₹'		dono J-	2085 Aug 12 13:09		
	2083 Feb 01 00:52			desc. node	2085 Aug 21 20:59	10° ≏ 45'58	
daga (1-	2083 Feb 26 04:22	0°≈ 10°≈ •44!21			2085 Sep 07 20:56	0°M√ 0°. 7	
desc. node	2083 Mar 07 01:59	10° ≈ 44'31			2085 Oct 05 22:06	0° ∡ ¹	

evening max el	2085 Oct 10 09:05	4° ∡ ¹26'52	46°46'12		2088 Mar 31 20:27	0°Υ	
C	2085 Nov 10 00:42	ರ°0		morning set	2088 Apr 09 13:15	10° Ƴ 46′24	
greatest brilliancy	2085 Nov 19 20:33	4° る 47'58	-4.9m		2088 Apr 25 02:28	9° 8	
retrograde	2085 Nov 29 13:45	6° る 35'26					
asc. node	2085 Dec 13 00:27	2° る 58'44		superior conj	2088 May 17 09:02	27° 8 27'27	
evening set	2085 Dec 13 20:42	2°る32'30		minimum elong	2088 May 17 15:01	27° 8 45'53	
	2085 Dec 18 07:29	30°₹ ⋌	1050110	max. Earth dist.	2088 May 19 01:16		1.73335 AU
inferior conj	2085 Dec 20 02:45 2085 Dec 19 22:35	28° ₹ 54'28 29° ₹ 00'48	1°50'19		2088 May 19 10:36	0°Ⅱ 12°Ⅱ46'10	
minimum elong min. Earth dist.	2085 Dec 19 22:35 2085 Dec 19 21:35	29° x '00'48 29° x '02'20	1°48'59 0.26433 AU	asc. node	2088 May 29 19:43 2088 Jun 12 20:18	0°95	
morning rise	2085 Dec 26 00:27	25° × 02 20	0.20433 AO	evening rise	2088 Jun 23 03:14	12° 9 38'04	
direct	2086 Jan 09 11:05	21°×716'56		evening rise	2088 Jul 07 06:58	0° Ω	
greatest brilliancy	2086 Jan 19 10:13	23° ∡ 10′10	-4.9m		2088 Jul 31 18:45	0° m	
	2086 Feb 01 05:15	8°0			2088 Aug 25 08:42	0∘ ⊽	
morning max el	2086 Feb 28 19:06	23° る 57'23	46°46'07	desc. node	2088 Sep 18 09:02	29° ≏ 07'31	
	2086 Mar 06 17:36	0° ≈			2088 Sep 19 02:25	0° M	
	2086 Apr 03 06:55	0° ∀			2088 Oct 14 01:56	0° ∡ ¹	
desc. node	2086 Apr 03 13:57	0°) 19'51			2088 Nov 08 11:21	0° ට	
	2086 Apr 29 08:36	0° Υ			2088 Dec 04 18:51	0° ≈	
	2086 May 24 19:34	0° X		evening max el	2088 Dec 22 01:58	18°≈27'08	47°17'25
	2086 Jun 18 22:36	0° Ⅱ		1	2089 Jan 02 22:26	0°) €	
aca mada	2086 Jul 13 19:29	0°ତ 14° ତ 28'24		asc. node	2089 Jan 09 12:14 2089 Jan 31 14:08	5° ¥ 49'07 20° ¥ 04'11	-4.9m
asc. node	2086 Jul 25 17:15 2086 Aug 07 10:09	14°928′24 0°Ω		greatest brilliancy retrograde	2089 Jan 31 14:08 2089 Feb 11 00:12	22° H 07'58	-4.9m
morning set	2086 Aug 27 19:26	25° Ω 05'22		evening set	2089 Feb 28 21:16	15° H 54'18	
morning sec	2086 Aug 31 18:45	0° m)		min. Earth dist.	2089 Mar 03 05:23	14°) 27'08	0.27669 AU
	2086 Sep 24 22:24	0∘ ⊽		inferior conj	2089 Mar 03 21:26	14°) (01'58	8°50'15
max. Earth dist.	2086 Sep 30 18:09	7° Ω 15'36	1.72112 AU	minimum elong	2089 Mar 03 20:37	14°) €03'16	8°50'14
	-			morning rise	2089 Mar 06 20:11	12° 升 12′25	
superior conj	2086 Oct 03 19:23	11° ≏ 04'06	1°18'10	direct	2089 Mar 24 16:40	6°) €07'23	
minimum elong	2086 Oct 04 02:32	11° ≏ 26'24	1°18'02	greatest brilliancy	2089 Apr 02 17:05	7°) 39′07	-4.8m
	2086 Oct 18 22:59	0° M		desc. node	2089 May 01 01:41	25° ¥ 58'40	
evening rise	2086 Nov 11 21:15	29° ™ 57'01			2089 May 05 14:07	0° Υ	
	2086 Nov 11 22:13	0° ⊀ ⁷		morning max el	2089 May 12 23:57	6° Y 58'16	46°02'27
desc. node	2086 Nov 14 06:52	2° ₹ 57'25			2089 Jun 04 10:20	0° B	
	2086 Dec 05 21:09	0°る			2089 Jul 01 11:46 2089 Jul 27 10:01	0° © 0°Ⅱ	
	2086 Dec 29 20:46 2087 Jan 22 22:52	0 ≈ 0°)			2089 Aug 21 15:16	0° U	
	2087 Feb 16 06:59	0°Υ		asc. node	2089 Aug 21 15:10 2089 Aug 22 05:08	0° Ω 41'43	
asc. node	2087 Mar 07 10:01	23° Y °11'01		use. Houe	2089 Sep 15 07:36	0° m)	
	2087 Mar 13 02:46	0°8			2089 Oct 09 14:23	0∘ ರ	
	2087 Apr 07 19:30	0° Ⅱ			2089 Nov 02 15:00	0° M ₊	
	2087 May 05 06:04	0 \circ \odot		morning set	2089 Nov 06 14:51	5°ML00'25	
evening max el	2087 May 16 16:37	11° 5 28'09	45°28'58		2089 Nov 26 12:27	0° ∡ ¹	
	2087 Jun 07 05:22	0 $^{\circ}$ Ω		desc. node	2089 Dec 11 18:37	19° ∡ 11'39	
greatest brilliancy	2087 Jun 23 12:44	9° Ω 13'48	-4.7m				
desc. node	2087 Jun 26 23:25	10° Ω 19'26		superior conj	2089 Dec 16 23:45	25° ∡ ¹45'16	
retrograde	2087 Jul 04 08:45	11° Ω 19'45		minimum elong	2089 Dec 16 20:27	25° 🖈 34'53	0°12'19
evening set	2087 Jul 20 06:39	6° Ω 28'58	(90(142	behind sun begin behind sun end	2089 Dec 16 02:54	24° 🖈 39'41	
inferior conj minimum elong	2087 Jul 25 19:47 2087 Jul 25 09:52	3° Ω 08'06 3° Ω 23'32		max. Earth dist.	2089 Dec 17 13:59 2089 Dec 17 00:40	26° ₹ 30'04 25° ₹ 48'10	1.71080 AU
min. Earth dist.	2087 Jul 25 18:35	3° Ω 09'58	0.28996 AU	max. Earth dist.	2089 Dec 20 08:43	23 × 48 10	1.71080 AC
morning rise	2087 Jul 30 13:03	0° Ω 15'34	0.20770710		2090 Jan 13 05:06	0° ≈	
morning rise	2087 Jul 30 23:51	30°R.55		evening rise	2090 Jan 27 10:38	17°≈52'14	
direct	2087 Aug 16 11:36	24° © 50'42		<u>6</u>	2090 Feb 06 02:51	0°) €	
greatest brilliancy	2087 Aug 27 00:48	26° © 51'47	-4.8m		2090 Mar 02 03:49	$0^{\circ}\mathbf{\Upsilon}$	
-	2087 Sep 02 21:15	$0^{\circ}\Omega$			2090 Mar 26 10:17	0°8	
morning max el	2087 Oct 04 23:49	25° Ω 48'17	46°12'16	asc. node	2090 Apr 03 22:03	10° 8 24'21	
	2087 Oct 09 04:44	0° m			2090 Apr 20 00:51	$\Pi^{\circ}0$	
asc. node	2087 Oct 18 02:49	9° m 16'34			2090 May 15 02:51	0°9	
	2087 Nov 05 20:18	0∘ 亚			2090 Jun 09 22:20	0° N	
	2087 Dec 01 09:38	0°M 0°. 7		1 1	2090 Jul 07 02:10	0° M)	
	2087 Dec 26 02:00	0° ∡ ¹ 0° ≥		desc. node	2090 Jul 24 11:11	17° Mp 43'20	15020125
desc. node	2088 Jan 19 09:18	0°궁 22°궁41'57		evening max el	2090 Jul 26 20:49	20° ™ 02'11 0° ≏	45°38'35
uese. Houe	2088 Feb 06 16:10 2088 Feb 12 13:09	0°≈		greatest brilliancy	2090 Aug 06 19:19 2090 Sep 04 12:22	18° ₽ 19'32	-4.8m
	2088 Mar 07 16:19	0 ≈ 0° ∺		retrograde	2090 Sep 04 12.22 2090 Sep 13 15:54	18 ≟ 19 32 19° £ 50'49	-T.0111
	2000 11111 07 10.19	ν <i>Λ</i>		. Juogiauc	2070 бор 13 13.54	17 - 20 79	

	2000 0 + 01 05 20	1.40.0 0.0150			2002 14 02 22 27	1.40 1/ 0.715.7	1026105
evening set	2090 Oct 01 05:20	14° £ 06'58		minimum elong	2093 Mar 03 23:27	14°) €07'57	
inferior conj	2090 Oct 04 17:23	11° ≏ 59'42		max. Earth dist.	2093 Mar 07 21:56	19°) 03′01	1.71848 AU
minimum elong	2090 Oct 05 01:02	11° ≏ 47'55	8°03'45		2093 Mar 16 16:40	0 ° Υ	
min. Earth dist.	2090 Oct 05 15:31	11° ≏ 25'37	0.27832 AU		2093 Apr 09 20:21	9° 8	
morning rise	2090 Oct 08 20:22	9° £ 29'36		evening rise	2093 Apr 12 16:10	3° 8 29'43	
direct	2090 Oct 25 19:51	3° £ 57'49		asc. node	2093 May 01 09:55	26° 8 36'04	
greatest brilliancy	2090 Nov 06 00:40	6° £ 17'20	-4.9m		2093 May 04 04:19	0°II	
asc. node	2090 Nov 14 14:36	10° £ 42'04	,		2093 May 28 17:05	0°©	
asc. node		0°M			•	0°N	
	2090 Dec 08 06:22		4.60.5010.5		2093 Jun 22 11:25		
morning max el	2090 Dec 15 11:04	7° M 07'58	46°52'37		2093 Jul 17 13:17	0° m)	
	2091 Jan 05 16:44	0° ∡			2093 Aug 12 02:56	0∘ ⊽	
	2091 Jan 31 15:19	0°ප		desc. node	2093 Aug 20 23:06	10° ≏ 10'30	
	2091 Feb 25 17:23	0° ≈			2093 Sep 07 13:13	0° M	
desc. node	2091 Mar 06 04:09	10° ≈ 12'41			2093 Oct 05 20:38	0° ∡ ¹	
	2091 Mar 22 11:12	0° ∀		evening max el	2093 Oct 07 23:00	2° ∡ 104'32	46°44'02
	2091 Apr 16 01:46	0° Υ		<i>5</i>	2093 Nov 12 00:04	0°ਰ	
	2091 May 10 15:20	0°8		greatest brilliancy	2093 Nov 17 08:55	。3 2° ろ 18'18	-4.9m
	•	0°II					- - ,/III
	2091 Jun 04 04:26			retrograde	2093 Nov 27 02:29	4° る 05'38	
morning set	2091 Jun 18 16:00	17° Ⅱ 43'27		evening set	2093 Dec 11 08:42	0° る 02'58	
asc. node	2091 Jun 27 07:29	28° Ⅱ 19'07			2093 Dec 11 10:57	30°Ŗ ⋌ 7	
	2091 Jun 28 16:24	0		asc. node	2093 Dec 12 02:24	29° ∡ ¹39'09	
max. Earth dist.	2091 Jul 22 16:57	29° © 31'08	1.73420 AU	inferior conj	2093 Dec 17 14:50	26° ∡ ¹24'48	1°25'57
	2091 Jul 23 02:19	$0^{\circ}\Omega$		minimum elong	2093 Dec 17 11:34	26° ∡ ¹29'46	1°24'53
				min. Earth dist.	2093 Dec 17 10:44	26° ∡ ³31′01	0.26432 AU
superior conj	2091 Jul 25 02:58	2° Ω 29'46	0°59'43	morning rise	2093 Dec 23 14:26	22° ₹ '55'40	
minimum elong	2091 Jul 24 18:11	2°Ω02'44		direct	2094 Jan 06 23:58	18° × 47'14	
minimum ciong			0 39 24				4.0
	2091 Aug 16 09:54	0° m		greatest brilliancy	2094 Jan 16 23:31	20° ∡ 741′25	-4.9m
evening rise	2091 Aug 30 01:58	16° Mp 54′23			2094 Feb 02 05:16	0°ಕ	
	2091 Sep 09 15:50	0∘ ত		morning max el	2094 Feb 26 09:22	21° る 34'29	46°47'17
	2091 Oct 03 21:18	0° M			2094 Mar 06 14:35	0° ≈	
desc. node	2091 Oct 16 20:59	16°M04'20		desc. node	2094 Apr 02 16:01	29° ≈ 40'55	
	2091 Oct 28 03:21	0° ∡ ¹			2094 Apr 02 22:45	0° ∀	
	2091 Nov 21 10:52	0°⋜			2094 Apr 28 22:15	0° Y	
	2091 Dec 15 21:50	0° ≈			2094 May 24 08:01	0°8	
	2092 Jan 09 17:21	0°) €			2094 Jun 18 10:21	0°II	
		0°Υ					
•	2092 Feb 04 09:13				2094 Jul 13 06:49	0.ee	
asc. node	2092 Feb 07 00:09	2° Y 58'16		asc. node	2094 Jul 24 19:21	14° © 00'42	
	2092 Mar 03 04:40	9° 8			2094 Aug 06 21:16	0 $^{\circ}$ Ω	
evening max el	2092 Mar 03 13:37	0° 8 22'25	46°26'19	morning set	2094 Aug 25 12:36	22° Ω 56′08	
	2092 Apr 11 05:25	$\Pi^{\circ}0$			2094 Aug 31 05:46	0° m)	
greatest brilliancy	2092 Apr 11 17:05	0° Ⅱ 11'18	-4.8m		2094 Sep 24 09:26	0∘ ⊽	
retrograde	2092 Apr 22 11:12	2° Ⅱ 20'04		max. Earth dist.	2094 Sep 28 07:39	4° ≙ 53'34	1.72162 AU
	2092 May 03 05:51	30°R₩					
evening set	2092 May 08 04:16	27° 8 31'53		superior conj	2094 Oct 01 10:52	8° ≏ 48'06	1010127
•	2092 May 13 20:19	24° 8 05'04	2024/41	minimum elong	2094 Oct 01 10:32 2094 Oct 01 17:25	9° 2 08'30	
inferior conj	•			minimum eiong			1 1920
minimum elong	2092 May 14 03:17	23° 8 54'06	3°22'46		2094 Oct 18 10:06	0° M	
min. Earth dist.	2092 May 13 21:04	24° 8 03'52	0.28695 AU	evening rise	2094 Nov 09 09:20	27°M29'19	
morning rise	2092 May 20 02:31	20° 8 18'24			2094 Nov 11 09:28	0° ∡ ¹	
desc. node	2092 May 28 13:28	16° 8 44'56		desc. node	2094 Nov 13 08:50	2° ∡ °28′16	
direct	2092 Jun 04 05:41	15° 8 51'45			2094 Dec 05 08:34	0°ರ	
greatest brilliancy	2092 Jun 14 09:10	17° 8 42'43	-4.7m		2094 Dec 29 08:22	0° ≈	
· ·	2092 Jul 05 04:20	0° I I			2095 Jan 22 10:44	0°) €	
morning max el	2092 Jul 22 22:49	15° Ⅲ 30′59	45°43'38		2095 Feb 15 19:17	0° Υ	
morning max er		0°9	43 43 30	aca mada		22° Υ '38'44	
	2092 Aug 06 11:05			asc. node	2095 Mar 06 12:08		
	2092 Sep 02 23:32	$0^{\circ}\Omega$			2095 Mar 12 15:53	0° 8	
asc. node	2092 Sep 18 17:09	18° Ω 07'51			2095 Apr 07 10:16	Π °0	
	2092 Sep 28 18:37	O° My			2095 May 05 01:04	0 \circ	
	2092 Oct 23 15:06	0∘ ত		evening max el	2095 May 14 09:10	9° 5 018'36	45°29'59
	2092 Nov 16 22:30	0°M			2095 Jun 07 23:27	$0^{\circ}\Omega$	
	2092 Dec 10 23:06	0° ∡ ¹		greatest brilliancy	2095 Jun 21 04:23	7° Ω 04'13	-4.7m
	2093 Jan 03 20:53	0°⋜		desc. node	2095 Jun 26 01:23	8° Ω 30'32	
desc. node	2093 Jan 08 06:20	5° る 31'04		retrograde	2095 Jul 02 00:53	9° Ω 10'19	
	2093 Jan 21 18:45	22° පි 29'43		evening set	2095 Jul 17 20:26	4°Ω23'18	
morning set				•			5052120
	2093 Jan 27 18:10	0° ≈		inferior conj	2095 Jul 23 12:03	0° Ω 58'30	
	2093 Feb 20 16:21	0°) €		minimum elong	2095 Jul 23 02:13	1° Ω 13'51	
				min. Earth dist.	2095 Jul 23 10:18	1° Ω 01'14	0.29002 AU
superior conj	2093 Mar 04 00:38	14°) 11'37	-1°26'05		2095 Jul 25 01:35	30° ₹ 5	

morning rise	2005 1 1 20 07 50	200001151			2000 1 24 20 22	1.50 - 1.512.0	
•	2095 Jul 28 07:59	28°901'51		evening rise	2098 Jan 24 20:33	15°≈17'39	
direct	2095 Aug 14 04:19	22°5941'16			2098 Feb 05 14:04	0° ∀	
greatest brilliancy	2095 Aug 24 15:58	24°5940'43	-4.7m		2098 Mar 01 15:06	0° Y	
	2095 Sep 04 06:40	$0 {\circ} \mathcal{N}$			2098 Mar 25 21:44	9° 8	
morning max el	2095 Oct 02 14:42	23° Ω 32'41	46°10'35	asc. node	2098 Apr 03 00:04	9° 8 55'12	
	2095 Oct 09 01:03	0° m			2098 Apr 19 12:40	$\Pi^{\circ}0$	
asc. node	2095 Oct 17 04:53	8° mp 33'25			2098 May 14 15:25	0°ಲಾ	
	2095 Nov 05 11:41	0∘ ⊽			2098 Jun 09 12:26	$0^{\circ}\Omega$	
	2095 Nov 30 23:10	0°M			2098 Jul 06 19:45	0° m)	
	2095 Dec 25 14:38	0° ⊼ ¹		desc. node	2098 Jul 23 13:22	16° m 54'35	
	2096 Jan 18 21:23	0° ਤ		evening max el	2098 Jul 24 10:03	~	45°37'10
4 4-		0 3 22° る 12'12		evening max er		17° m) 44'08	45 37 10
desc. node	2096 Feb 05 18:21	_			2098 Aug 07 01:47	0∘ 亚	4.0
	2096 Feb 12 00:50	0° ≈		greatest brilliancy	2098 Sep 02 01:19	16° ≏ 01'40	-4.8m
	2096 Mar 07 03:43	0° ∀		retrograde	2098 Sep 11 05:35	17° ≏ 33'49	
	2096 Mar 31 07:37	0 ° $\mathbf{\gamma}$		evening set	2098 Sep 28 21:39	11° ≏ 45'48	
morning set	2096 Apr 07 03:50	8° Ƴ 28'37		inferior conj	2098 Oct 02 07:40	9° ≏ 41'40	-8°12'21
	2096 Apr 24 13:30	8°		minimum elong	2098 Oct 02 14:42	9° മ 30'51	8°11'35
				min. Earth dist.	2098 Oct 03 05:36	9° ₽ 07'56	0.27901 AU
superior conj	2096 May 15 01:42	25° 8 17'19	-0°32'12	morning rise	2098 Oct 06 07:24	7° ≏ 16'26	
minimum elong	2096 May 15 08:15	25° 8 37'30	0°31'53	direct	2098 Oct 23 10:25	1° ≏ 38'32	
max. Earth dist.	2096 May 16 22:45		1.73299 AU	greatest brilliancy	2098 Nov 03 16:11	3° £ 58'51	-4.9m
max. Earth dist.	2096 May 18 21:32	0°II	1.752)) 110	asc. node	2098 Nov 13 16:33	9° ≏ 17'58	4.7111
	-			asc. node			
asc. node	2096 May 28 21:42	12° Ⅱ 18'45			2098 Dec 08 07:11	0°M	46051140
	2096 Jun 12 07:12	0°9		morning max el	2098 Dec 13 01:33		46°51'43
evening rise	2096 Jun 20 21:51	10° © 34'18			2099 Jan 05 09:40	0° ∡	
	2096 Jul 06 17:58	$0^{\circ}\Omega$			2099 Jan 31 05:36	0°ප	
	2096 Jul 31 06:00	0° m			2099 Feb 25 06:22	0° ≈	
	2096 Aug 24 20:23	0∘ ত		desc. node	2099 Mar 05 06:12	9° ≈ 40'34	
desc. node	2096 Sep 17 11:07	28° ≏ 36'35			2099 Mar 21 23:21	0° ∀	
	2096 Sep 18 14:46	0°M			2099 Apr 15 13:22	$0^{\circ}\mathbf{\Upsilon}$	
	2096 Oct 13 15:17	0° √			2099 May 10 02:31	0° ႘	
	2096 Nov 08 02:20	0°⋜			2099 Jun 03 15:18	0°II	
	2096 Dec 04 13:11	0° ≈		morning set	2099 Jun 16 09:53	15° ∏ 38'10	
avaning may al	2096 Dec 19 16:08	16°≈03'01	47017147	asc. node	2099 Jun 26 09:35	27° I 52'39	
evening max el		10 ≈03 01 0°) (4/ 1/4/	asc. node		27 11 3239	
	2097 Jan 03 04:03			To all the	2099 Jun 28 03:07		1.72446.447
asc. node	2097 Jan 08 14:23	4°) (40′16		max. Earth dist.	2099 Jul 20 14:43	27° © 37'32	1.73446 AU
greatest brilliancy	2097 Jan 29 05:31	17° ∺ 42'16	-4.9m				
retrograde	2097 Feb 08 14:20	19°) 44'56		superior conj	2099 Jul 22 21:24	0° Ω 25'50	
evening set				superior conj	2099 Jul 22 21.24	0 662330	0°57'27
	2097 Feb 26 10:11	13°) 34′14		minimum elong	2099 Jul 22 12:38	29° © 58'52	
inferior conj	2097 Feb 26 10:11 2097 Mar 01 11:33	13°) 34'14 11°) 39'59	8°49'25				
inferior conj minimum elong			8°49'25 8°49'23		2099 Jul 22 12:38	29° © 58'52	
	2097 Mar 01 11:33	11° ∺ 39'59			2099 Jul 22 12:38 2099 Jul 22 13:00	29°€58'52 0° Ω	
minimum elong min. Earth dist.	2097 Mar 01 11:33 2097 Mar 01 09:51	11°) 39′59 11°) 42′39	8°49'23	minimum elong	2099 Jul 22 12:38 2099 Jul 22 13:00 2099 Aug 15 20:39 2099 Aug 27 19:40	29°€58'52 0° Ω 0° ™	
minimum elong min. Earth dist. morning rise	2097 Mar 01 11:33 2097 Mar 01 09:51 2097 Feb 28 19:00 2097 Mar 04 09:45	11°\dagger39'59 11°\dagger42'39 12°\dagger405'58 9°\dagger451'08	8°49'23	minimum elong	2099 Jul 22 12:38 2099 Jul 22 13:00 2099 Aug 15 20:39 2099 Aug 27 19:40 2099 Sep 09 02:43	29°©58'52 0°Ω 0°№ 14°№47'18 0°Ω	
minimum elong min. Earth dist. morning rise direct	2097 Mar 01 11:33 2097 Mar 01 09:51 2097 Feb 28 19:00 2097 Mar 04 09:45 2097 Mar 22 05:56	11°\(\)39'59 11°\(\)42'39 12°\(\)65'58 9°\(\)51'08 3°\(\)46'29	8°49'23 0.27612 AU	minimum elong evening rise	2099 Jul 22 12:38 2099 Jul 22 13:00 2099 Aug 15 20:39 2099 Aug 27 19:40 2099 Sep 09 02:43 2099 Oct 03 08:25	29°\$58'52 0° N 0° M 14° M 47'18 0° £ 0° M	
minimum elong min. Earth dist. morning rise direct greatest brilliancy	2097 Mar 01 11:33 2097 Mar 01 09:51 2097 Feb 28 19:00 2097 Mar 04 09:45 2097 Mar 22 05:56 2097 Mar 31 06:17	11°\text{\tiny{\text{\tiny{\text{\tiny{\tinit}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinit}}\text{\tinit}\x}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinit}\xi\text{\texi}\text{\text{\texi}\text{\text{\text{\text{\texit{\texit{\texit{\texi}\text{\texit{\ti}\tint{\text{\texi}\texit{\text{\texi{\texi{\texi{\texi{\texi{\texit{\texi{\ter	8°49'23	minimum elong	2099 Jul 22 12:38 2099 Jul 22 13:00 2099 Aug 15 20:39 2099 Aug 27 19:40 2099 Sep 09 02:43 2099 Oct 03 08:25 2099 Oct 15 22:59	29°\$58'52 0°\$0 0°\$0 14°\$047'18 0°\$1 0°\$1 15°\$135'33	
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minimum elong min. Earth dist. morning rise direct greatest brilliancy	2097 Mar 01 11:33 2097 Mar 01 09:51 2097 Feb 28 19:00 2097 Mar 04 09:45 2097 Mar 22 05:56 2097 Mar 31 06:17 2097 Apr 30 03:43 2097 May 05 16:16 2097 May 10 12:58	11°\mathfrak{39'59} 11°\mathfrak{42'39} 12°\mathfrak{05'58} 9°\mathfrak{51'08} 3°\mathfrak{46'29} 5°\mathfrak{17'48} 24°\mathfrak{58'40} 0°\mathfrak{\gamma} 4°\mathfrak{\gamma}37'35	8°49'23 0.27612 AU	minimum elong evening rise	2099 Jul 22 12:38 2099 Jul 22 13:00 2099 Aug 15 20:39 2099 Aug 27 19:40 2099 Sep 09 02:43 2099 Oct 03 08:25 2099 Oct 15 22:59 2099 Oct 27 14:48 2099 Nov 20 22:47 2099 Dec 15 10:25	29°\$58'52 0°\$\mathbb{\Omega}\$ 0°\$\mathbb{m}\$47'18 0°\$\mathbb{\Omega}\$ 0°\$\mathbb{\Omega}\$ 0°\$\mathbb{\Sigma}\$ 0°\$\mathbb{\Sigma}\$ 0°\$\mathbb{\Sigma}\$	
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minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el	2097 Mar 01 11:33 2097 Mar 01 09:51 2097 Feb 28 19:00 2097 Mar 04 09:45 2097 Mar 22 05:56 2097 Mar 31 06:17 2097 Apr 30 03:43 2097 May 05 16:16 2097 May 10 12:58 2097 Jul 04 03:17 2097 Jul 01 01:42 2097 Jul 26 22:30 2097 Aug 21 07:17 2097 Aug 21 02:58	11°\(\delta\)39'59 11°\(\delta\)42'39 12°\(\delta\)5'58 9°\(\delta\)5'108 3°\(\delta\)6'29 5°\(\delta\)17'48 24°\(\delta\)58'40 0°\(\delta\) 4°\(\gamma\)37'35 0°\(\delta\) 0°\(\delta\) 0°\(\delta\) 0°\(\delta\)	8°49'23 0.27612 AU -4.8m	minimum elong evening rise desc. node asc. node evening max el	2099 Jul 22 12:38 2099 Jul 22 13:00 2099 Aug 15 20:39 2099 Aug 27 19:40 2099 Sep 09 02:43 2099 Oct 03 08:25 2099 Oct 15 22:59 2099 Oct 27 14:48 2099 Nov 20 22:47 2099 Dec 15 10:25 2100 Jan 09 07:00 2100 Feb 04 01:02 2100 Feb 06 02:14 2100 Mar 02 04:38 2100 Mar 04 02:36	29°\$58'52 0°\$0 0°\$0 14°\$0,47'18 0°\$2 0°\$1 15°\$135'33 0°\$7 0°\$5 0°\$8 0°\$4 0°\$7 2°\$718'45 28°\$705'52 0°\$5	0°57'08 46°28'48
minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el	2097 Mar 01 11:33 2097 Mar 01 09:51 2097 Feb 28 19:00 2097 Mar 04 09:45 2097 Mar 22 05:56 2097 Mar 31 06:17 2097 Apr 30 03:43 2097 May 05 16:16 2097 May 10 12:58 2097 Jun 04 03:17 2097 Jul 01 01:42 2097 Jul 26 22:30 2097 Aug 21 07:17 2097 Aug 21 02:58 2097 Sep 14 18:54	11°\(\cong 39'59\) 11°\(\cong 42'39\) 12°\(\cong 65'58\) 9°\(\cong 51'08\) 3°\(\cong 46'29\) 5°\(\cong 17'48\) 24°\(\cong 58'40\) 0°\(\cong 40'\) 0°\(\cong 60'\)	8°49'23 0.27612 AU -4.8m	minimum elong evening rise desc. node asc. node evening max el	2099 Jul 22 12:38 2099 Jul 22 13:00 2099 Aug 15 20:39 2099 Aug 27 19:40 2099 Sep 09 02:43 2099 Oct 03 08:25 2099 Oct 15 22:59 2099 Oct 27 14:48 2099 Nov 20 22:47 2099 Dec 15 10:25 2100 Jan 09 07:00 2100 Feb 04 01:02 2100 Feb 06 02:14 2100 Mar 02 04:38 2100 Mar 04 02:36 2100 Apr 10 09:20	29°\$58'52 0°\$0 0°\$0 14°\$0,47'18 0°\$0 0°\$1 15°\$135'33 0°\$7 0°\$5 0°\$8 0°\$4 0°\$7 2°\$718'45 28°\$705'52 0°\$5	0°57'08 46°28'48
minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el asc. node	2097 Mar 01 11:33 2097 Mar 01 09:51 2097 Feb 28 19:00 2097 Mar 04 09:45 2097 Mar 22 05:56 2097 Mar 31 06:17 2097 Apr 30 03:43 2097 May 05 16:16 2097 May 10 12:58 2097 Jul 01 01:42 2097 Jul 04 03:17 2097 Jul 04 03:17 2097 Jul 05 22:30 2097 Aug 21 07:17 2097 Aug 21 02:58 2097 Sep 14 18:54 2097 Oct 09 01:30	11°\(\color{1}\)39'59 11°\(\color{1}\)42'39 12°\(\color{1}\)05'58 9°\(\color{1}\)51'08 3°\(\color{1}\)46'29 5°\(\color{1}\)7'35 0°\(\color{1}\)0°\(\color{1}	8°49'23 0.27612 AU -4.8m	minimum elong evening rise desc. node asc. node evening max el greatest brilliancy	2099 Jul 22 12:38 2099 Jul 22 13:00 2099 Aug 15 20:39 2099 Aug 27 19:40 2099 Sep 09 02:43 2099 Oct 03 08:25 2099 Oct 15 22:59 2099 Oct 27 14:48 2099 Nov 20 22:47 2099 Dec 15 10:25 2100 Jan 09 07:00 2100 Feb 04 01:02 2100 Feb 06 02:14 2100 Mar 02 04:38 2100 Mar 04 02:36 2100 Apr 10 09:20 2100 Apr 18 09:39 2100 Apr 21 04:04	29°\$58'52 0°\$0 0°\$0 14°\$0,47'18 0°\$2 0°\$1 15°\$135'33 0°\$7 0°\$5 0°\$8 0°\$4 0°\$7 2°\$718'45 28°\$705'52 0°\$8 27°\$59'39 0°\$\$1	0°57'08 46°28'48
minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el	2097 Mar 01 11:33 2097 Mar 01 09:51 2097 Feb 28 19:00 2097 Mar 04 09:45 2097 Mar 22 05:56 2097 Mar 31 06:17 2097 Apr 30 03:43 2097 May 05 16:16 2097 May 10 12:58 2097 Jul 01 01:42 2097 Jul 01 01:42 2097 Jul 26 22:30 2097 Aug 21 07:17 2097 Aug 21 02:58 2097 Sep 14 18:54 2097 Oct 09 01:30 2097 Nov 02 02:05 2097 Nov 04 04:12	11° \(\text{339'59} \) 11° \(\text{42'39} \) 12° \(\text{40'558} \) 9° \(\text{45'108} \) 3° \(\text{46'29} \) 5° \(\text{17'48} \) 24° \(\text{58'40} \) 0° \(\text{4} \) 0° \(\text{4} \) 0° \(\text{4} \) 0° \(\text{13'00} \) 0° \(\text{13'00} \) 0° \(\text{10} \)	8°49'23 0.27612 AU -4.8m	evening rise desc. node asc. node evening max el greatest brilliancy	2099 Jul 22 12:38 2099 Jul 22 13:00 2099 Aug 15 20:39 2099 Aug 27 19:40 2099 Sep 09 02:43 2099 Oct 03 08:25 2099 Oct 15 22:59 2099 Oct 27 14:48 2099 Nov 20 22:47 2099 Dec 15 10:25 2100 Jan 09 07:00 2100 Feb 04 01:02 2100 Feb 06 02:14 2100 Mar 02 04:38 2100 Mar 04 02:36 2100 Apr 10 09:20 2100 Apr 18 09:39 2100 Apr 21 04:04 2100 Apr 23 21:36	29°\$58'52 0°\$\mathcal{O}\$ 0°\$\mathcal{W}\$ 14°\$\mathcal{W}\$47'18 0°\$\sigma\$ 0°\$\mathcal{M}\$ 15°\$\mathcal{M}\$35'33 0°\$\nathcal{A}\$ 0°\$\mathcal{S}\$ 0°\$\mathcal{S}\$ 0°\$\mathcal{S}\$ 0°\$\mathcal{S}\$ 2°\$\mathcal{V}\$18'45 28°\$\mathcal{V}\$05'52 0°\$\mathcal{S}\$ 27°\$\mathcal{S}\$59'39 0°\$\mathcal{I}\$ 0°\$\mathcal{M}\$09'05 30°\$\mathcal{S}\$	0°57'08 46°28'48
minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el asc. node	2097 Mar 01 11:33 2097 Mar 01 09:51 2097 Feb 28 19:00 2097 Mar 04 09:45 2097 Mar 22 05:56 2097 Mar 31 06:17 2097 Apr 30 03:43 2097 May 05 16:16 2097 May 10 12:58 2097 Jul 01 01:42 2097 Jul 01 01:42 2097 Jul 26 22:30 2097 Aug 21 07:17 2097 Aug 21 07:17 2097 Aug 21 02:58 2097 Oct 09 01:30 2097 Nov 02 02:05 2097 Nov 04 04:12 2097 Nov 25 23:33	11° \(\cdot 39'59\) 11° \(\cdot 42'39\) 12° \(\cdot 65'58\) 9° \(\cdot 51'08\) 3° \(\cdot 46'29\) 5° \(\cdot 17'48\) 24° \(\cdot 58'40\) 0° \(\cdot 4\) 0° \(\cdot 9\) 0° \(\cdot 13'00\) 0° \(\cdot 0\) 0° \(\cdo 0\)	8°49'23 0.27612 AU -4.8m	minimum elong evening rise desc. node asc. node evening max el greatest brilliancy retrograde evening set	2099 Jul 22 12:38 2099 Jul 22 13:00 2099 Aug 15 20:39 2099 Aug 27 19:40 2099 Sep 09 02:43 2099 Oct 03 08:25 2099 Oct 15 22:59 2099 Oct 27 14:48 2099 Nov 20 22:47 2099 Dec 15 10:25 2100 Jan 09 07:00 2100 Feb 04 01:02 2100 Feb 06 02:14 2100 Mar 02 04:38 2100 Mar 04 02:36 2100 Apr 10 09:20 2100 Apr 18 09:39 2100 Apr 21 04:04 2100 Apr 23 21:36 2100 May 06 22:35	29°\$58'52 0°\$\mathcal{O}\$ 0°\$\mathcal{W}\$ 14°\$\mathcal{W}\$47'18 0°\$\sigma\$ 0°\$\mathcal{M}\$ 15°\$\mathcal{M}\$35'33 0°\$\nathcal{X}\$ 0°\$\mathcal{S}\$ 0°\$\mathcal{S}\$ 0°\$\mathcal{Y}\$ 2°\$\mathcal{Y}\$18'45 28°\$\mathcal{Y}\$05'52 0°\$\mathcal{S}\$ 27°\$\mathcal{S}\$59'39 0°\$\mathcal{I}\$ 0°\$\mathcal{M}\$09'05 30°\$\mathcal{S}\$ 25°\$\mathcal{S}\$17'25	0°57'08 46°28'48 -4.8m
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minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node morning max el asc. node morning set desc. node superior conj minimum elong	2097 Mar 01 11:33 2097 Mar 01 09:51 2097 Feb 28 19:00 2097 Mar 04 09:45 2097 Mar 22 05:56 2097 Mar 31 06:17 2097 Apr 30 03:43 2097 May 05 16:16 2097 May 10 12:58 2097 Jul 01 01:42 2097 Jul 01 01:42 2097 Jul 26 22:30 2097 Aug 21 07:17 2097 Aug 21 02:58 2097 Sep 14 18:54 2097 Oct 09 01:30 2097 Nov 02 02:05 2097 Nov 04 04:12 2097 Dec 14 09:54 2097 Dec 14 07:39	11° \(\cdot 39'59\) 11° \(\cdot 42'39\) 12° \(\cdot 05'58\) 9° \(\cdot 51'08\) 3° \(\cdot 46'29\) 5° \(\cdot 17'48\) 24° \(\cdot 58'40\) 0° \(\cdot \cdot \cdot 00'\) 0° \(\cdot 00'\) 18° \(\cdot 3'\) 18° \(\cdot 3'\) 23° \(\cdot 3'\) 11'15 23° \(\cdot 3'\) 24'08	8°49'23 0.27612 AU -4.8m 46°03'48	minimum elong evening rise desc. node asc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	2099 Jul 22 12:38 2099 Jul 22 13:00 2099 Aug 15 20:39 2099 Aug 27 19:40 2099 Sep 09 02:43 2099 Oct 03 08:25 2099 Oct 15 22:59 2099 Oct 27 14:48 2099 Nov 20 22:47 2099 Dec 15 10:25 2100 Jan 09 07:00 2100 Feb 04 01:02 2100 Feb 06 02:14 2100 Mar 02 04:38 2100 Mar 04 02:36 2100 Apr 10 09:20 2100 Apr 18 09:39 2100 Apr 21 04:04 2100 Apr 23 21:36 2100 May 06 22:35 2100 May 12 12:23 2100 May 12 12:58 2100 May 18 17:25	29°\$58'52 0°\$\mathcal{O}\$ 0°\$\mathcal{M}\$ 14°\$\mathcal{M}\$47'18 0°\$\Lambda\$ 0°\$\mathcal{M}\$ 15°\$\Lambda\$35'33 0°\$\mathcal{A}\$ 0°\$\mathcal{M}\$ 0°\$\mathcal{M}\$ 0°\$\mathcal{M}\$ 0°\$\mathcal{M}\$ 0°\$\mathcal{M}\$ 20°\$\mathcal{M}\$ 20°\$\mathcal{M}\$ 25°\$\mathcal{M}\$ 25°\$\mathcal{M}\$ 21°\$\mathcal{M}\$ 22°\$\mathcal{M}\$ 22°\$\mathcal{M}\$ 22°\$\mathcal{M}\$ 22°\$\mathcal{M}\$ 22°\$\mathcal{M}\$ 22°	0°57'08 46°28'48 -4.8m 3°43'17 3°41'16
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	2100 Aug 07 04:52	0ං ව	
	2100 Sep 03 13:37	$0 ^{\circ} \Omega$	
asc. node	2100 Sep 18 19:04	17° Ω 35′26	
	2100 Sep 29 07:10	0° m)	
	2100 Oct 24 02:52	0∘ ⊽	
	2100 Nov 17 09:52	0° M	
	2100 Dec 11 10:14	0° ∡ ¹	
	2101 Jan 04 07:54	0° る	
desc. node	2101 Jan 08 08:31	5° る 03'28	
morning set	2101 Jan 20 04:41	19° る 55'50	
	2101 Jan 28 05:06	0° ≈	
	2101 Feb 21 03:12	0°) €	
superior conj	2101 Mar 02 12:28	11°) 44'45 -1°25'49	
minimum elong	2101 Mar 02 10:16	11° 米 37′52 1°25′49	
max. Earth dist.	2101 Mar 06 08:17	16° 米 31′36 1.71801 A	U
	2101 Mar 17 03:28	0 ° $\mathbf{\gamma}$	
	2101 Apr 10 07:09	0° ႘	
evening rise	2101 Apr 11 06:15	1° 8 11'28	
asc. node	2101 May 01 11:54	26° ႘ 08'48	
	2101 May 04 15:11	$\Pi^{\circ}0$	
	2101 May 29 04:09	0ಂತಾ	
	2101 Jun 22 22:53	$0 ^{\circ} \Omega$	
	2101 Jul 18 01:29	0° m	
	2101 Aug 12 16:29	0∘ ⊽	
desc. node	2101 Aug 21 01:09	9° ≏ 35'44	
	2101 Sep 08 05:24	0° M	
evening max el	2101 Oct 06 13:40	29°M45'20 46°41'47	
	2101 Oct 06 19:39	0° ∡ 7	
greatest brilliancy	2101 Nov 15 21:41	29° ₹ 50'49 -4.9m	
	2101 Nov 16 08:25	0° る	
retrograde	2101 Nov 25 15:16	1° る 37′25	
	2101 Dec 04 12:48	30°R ⋌ ¹	
evening set	2101 Dec 09 21:08	27° ∡ ³35′06	
asc. node	2101 Dec 12 04:30	26° ⊀ 18'15	
inferior conj	2101 Dec 16 03:02	23° ₹ 56'58 1°01'28	
minimum elong	2101 Dec 16 00:41	24° 尽 00'33 1°00'42	
min. Earth dist.	2101 Dec 16 00:07	24° ⋌ 101′24 0.26432 A	U
morning rise	2101 Dec 22 04:17	20° ∡ 125'47	
direct	2102 Jan 05 12:56	16° ₹ 19'33	