	1611 7 00 05 51	10001014	4.05000 4.77		161675 21 21 26	100710111	
min. Earth dist.	1611 Jan 09 05:51	19° <b>©</b> 43'47	4.25929 AU	behind sun begin	1616 Dec 31 01:26	10° <b>ろ</b> 10'11	
opposition	1611 Jan 10 03:01	19° <b>©</b> 36'39	0°22'13	behind sun end	1616 Dec 31 17:09	10° <b>る</b> 19'17	
direct	1611 Mar 11 04:19	14° <b>©</b> 34'57		morning rise	1617 Jan 13 02:21	13° <b>る</b> 12'09	
	1611 Jul 03 02:58	$0 {\circ} \Omega$			1617 Apr 12 06:00	0° <b>≈</b>	
evening set	1611 Jul 15 23:51	2° <b>Ω</b> 47'28		retrograde	1617 May 20 11:56	2° <b>≈</b> 13'11	
					1617 Jun 28 00:20	30°R₹	
conjunction	1611 Jul 29 13:39	5° <b>Ω</b> 46'37	0°32'39	opposition	1617 Jul 20 03:33	27° <b>ප</b> 18'04	-0°35'08
minimum elong	1611 Jul 29 13:37	5° <b>Ω</b> 46'36	0°32'40	min. Earth dist.	1617 Jul 20 22:35	27° <b>る</b> 11'54	4.09411 AU
max. Earth dist.	1611 Jul 30 10:36	5° <b>Ω</b> 58'10	6.32467 AU	direct	1617 Sep 18 08:15	22° <b>る</b> 23'03	
morning rise	1611 Aug 12 01:34	8° <b>Ω</b> 44'41	0.52 107 110	direct	1617 Nov 29 22:08	0°≈	
morning risc		15° <b>Ω</b>		avanina aat	1618 Jan 21 12:27	0 <b>~</b> 11° <b>≈</b> 29'58	
1	1611 Sep 10 14:59			evening set	1018 Jan 21 12.27	11 ≈2938	
retrograde	1611 Dec 12 11:58	26° <b>Ω</b> 12'30	1000122		1610 7 1 02 00 50	140 2407	00.4015.6
opposition	1612 Feb 10 12:39	21° <b>Ω</b> 14'14	1°08'32	conjunction	1618 Feb 03 08:59	14° <b>≈</b> 34'07	
min. Earth dist.	1612 Feb 10 07:44	21° <b>Ω</b> 15'51	4.37892 AU	minimum elong	1618 Feb 03 08:57	14° <b>≈</b> 34'05	0°40'56
direct	1612 Apr 11 20:17	16° <b>Ω</b> 11'23		max. Earth dist.	1618 Feb 02 19:53	14° <b>≈</b> 26′16	6.03395 AU
	1612 Jul 29 02:57	0° <b>m</b>			1618 Feb 05 04:16	15° <b>≈</b>	
evening set	1612 Aug 16 18:41	3° <b>m</b> 56'51		morning rise	1618 Feb 16 07:35	17° <b>≈</b> 39'30	
					1618 Apr 13 21:08	0° <b>∀</b>	
conjunction	1612 Aug 30 01:00	6° <b>™</b> 49'05	0°58'11	retrograde	1618 Jun 27 00:08	7° <b>)</b> 44'36	
minimum elong	1612 Aug 30 00:58	6° m 49'04	0°58'10	opposition	1618 Aug 26 07:17	2° <b>)</b> 45'45	-1°22'41
max. Earth dist.	1612 Aug 29 16:30	6° Mp 44'29	6.41942 AU	min. Earth dist.	1618 Aug 26 03:43		3.98766 AU
morning rise	1612 Sep 12 04:43	9° <b>m</b> 39'56	0.41742710	iiiii. Lartii dist.	•	30°R≈	3.70700710
•	1			1	1618 Sep 17 13:33		
retrograde	1613 Jan 10 18:39	26° m 33'27		direct	1618 Oct 24 02:02	27°≈52'08	
opposition	1613 Mar 12 02:22	21° Mp 38'39	1°33'58		1618 Nov 29 04:08	0° <b>∀</b>	
min. Earth dist.	1613 Mar 12 16:40	21°Mp34'01	4.44377 AU	evening set	1619 Feb 26 09:31	17° <b>∺</b> 27'37	
direct	1613 May 13 10:50	16° Mp 35'48					
	1613 Aug 28 11:07	0∘ <b>ত</b>		conjunction	1619 Mar 11 12:48	20° <b>)</b> 38′01	-1°03'37
evening set	1613 Sep 17 03:15	4° <b>£</b> 08'47		minimum elong	1619 Mar 11 12:47	20° <b>)</b> 38′00	1°03'37
max. Earth dist.	1613 Sep 28 18:14	6° <b>₽</b> 39'30	6.44887 AU	max. Earth dist.	1619 Mar 12 09:29	20° <b>升</b> 50′32	5.96044 AU
	•			morning rise	1619 Mar 24 18:55	23° <b>¥</b> 50′03	
conjunction	1613 Sep 30 02:24	6° <b>£</b> 56'57	1°07'07	5 5	1619 Apr 20 03:16	0° <b>Υ</b>	
minimum elong	1613 Sep 30 02:24	6° <b>£</b> 56'57	1°07'07	retrograde	1619 Aug 04 05:44	14° <b>Υ</b> 28'53	
morning rise	1613 Oct 12 22:40	9° <b>£</b> 43'45	1 0/0/	min. Earth dist.	1619 Oct 02 02:28	9° <b>Υ</b> 33'59	3.95658 AU
•							
retrograde	1614 Feb 10 01:51	26° <b>£</b> 30'44	102401	opposition	1619 Oct 03 01:32	9° <b>Υ</b> 26'12	-1°39′19
opposition	1614 Apr 11 18:16	21° <b>≏</b> 38'10	1°34'01	direct	1619 Nov 30 01:27	4° <b>Y</b> 31'59	
min. Earth dist.	1614 Apr 12 22:29	21° <b>≏</b> 29'07	4.43731 AU	evening set	1620 Apr 03 16:30	24° <b>Ƴ</b> 12'46	
direct	1614 Jun 13 11:41	16° <b>≏</b> 36'21					
	1614 Sep 28 01:06	$0^{\circ}$ M.		conjunction	1620 Apr 17 03:46	27° <b>Y</b> 26′14	-1°01'42
evening set	1614 Oct 17 19:20	4°M13'10		minimum elong	1620 Apr 17 03:48	27° <b>Y</b> 26′15	1°01'42
max. Earth dist.	1614 Oct 28 15:00	6°M35'25	6.40632 AU	max. Earth dist.	1620 Apr 19 02:55	27° <b>Ƴ</b> 54'29	5.97385 AU
					1620 Apr 27 20:50	0°8	
conjunction	1614 Oct 30 13:22	7°M00'55	0°57'51	morning rise	1620 Apr 30 18:02	0° <b>8</b> 41'10	
minimum elong	1614 Oct 30 13:23	7°ML00'56	0°57'50	5 5	1620 Jul 07 02:51	15° <b>8</b>	
morning rise	1614 Nov 12 05:02	9° <b>M</b> 47'42	0 0,00	retrograde	1620 Sep 09 07:39	21° <b>8</b> 03'40	
morning rise	1614 Dec 06 14:32	15°M		min. Earth dist.	1620 Nov 06 11:36	16° <b>8</b> 10'30	4.01376 AU
retrograde	1615 Mar 13 12:30	26°M56'13	1000121	opposition	1620 Nov 07 22:11	15° <b>8</b> 58'43	-1-10/28
opposition	1615 May 13 09:41	22°M04'24	1°08'31	1:	1620 Nov 15 03:53	15°R <b>8</b>	
min. Earth dist.	1615 May 14 21:54	21°M52'52	4.36112 AU	direct	1621 Jan 04 22:01	11° <b>8</b> 02'04	
direct	1615 Jul 14 21:47	17°M04'28			1621 Feb 24 00:09	15° <b>8</b>	
	1615 Oct 25 16:10	0°⊀			1621 May 09 12:11	$\Pi$ $\circ$ 0	
evening set	1615 Nov 17 16:29	5° <b>∡</b> 101'05		evening set	1621 May 11 02:19	0° <b>Ⅱ</b> 22'06	
max. Earth dist.	1615 Nov 28 06:06	7° <b>҂</b> ¹23'43	6.30203 AU				
				conjunction	1621 May 24 19:29	3° <b>Ⅲ</b> 33'55	-0°36'02
conjunction	1615 Nov 30 08:20	7° <b>₹</b> 752'04	0°32'08	minimum elong	1621 May 24 19:31	3° <b>Ⅱ</b> 33'57	0°36'02
minimum elong	1615 Nov 30 08:22	7° <b>∡</b> 752'05	0°32'08	max. Earth dist.	1621 May 27 01:27	4° <b>Ⅱ</b> 05'25	6.06890 AU
morning rise	1615 Dec 12 23:11	10° <b>∡</b> 42'44		morning rise	1621 Jun 07 14:30	6° <b>Ⅱ</b> 46'23	
retrograde	1616 Apr 14 19:58	28° 🖈 38'35		retrograde	1621 Oct 14 06:07	26° <b>I</b> I12'04	
opposition	1616 Jun 14 17:42	23° <b>х</b> 45'50	0°21'46	opposition		20 <b>H</b> 12 04 21° <b>H</b> 07'38	0°26'12
				**	1621 Dec 12 20:12		
min. Earth dist.	1616 Jun 16 02:31	23° 🖈 35'20	4.23443 AU	min. Earth dist.	1621 Dec 11 12:28	21° <b>Ⅱ</b> 18'26	4.13542 AU
direct	1616 Aug 15 07:25	18° <b>≯</b> 48'18		direct	1622 Feb 09 18:19	16° <b>Ⅱ</b> 07'57	
	1616 Nov 15 18:01	0° <b>ろ</b>			1622 May 25 05:41	0° <b>©</b>	
desc. node	1616 Nov 16 20:38	0° <b>る</b> 13'53		asc. node	1622 Jun 13 11:14	4° <b>©</b> 13'34	
evening set	1616 Dec 18 16:23	7° <b>る</b> 17'43		evening set	1622 Jun 16 08:28	4° <b>©</b> 52'22	
max. Earth dist.	1010 200 10 10.25						
max. Larm dist.	1616 Dec 29 20:12	9° <b>⋜</b> 53′08	6.16365 AU				
max. Latti dist.		9° <b>ප්</b> 53'08	6.16365 AU	conjunction	1622 Jun 30 02:21	7° <b>©</b> 58'18	0°01'39
conjunction		9° <b>ට</b> 53'08 10°ට14'44		conjunction minimum elong	1622 Jun 30 02:21 1622 Jun 30 02:19	7° <b>©</b> 58'18 7° <b>©</b> 58'17	0°01'39 0°01'39
	1616 Dec 29 20:12		-0°04'23				

behind sun end	1622 Jun 30 10:41	8° <b>©</b> 02'59		morning rise	1627 Dec 17 05:15	15° <b>∡</b> 07'41	
max. Earth dist.	1622 Jul 01 21:06	8° <b>5</b> 22'26	6.20712 AU		1628 Mar 04 05:46	0°る	
morning rise	1622 Jul 13 19:43	11° <b>©</b> 03'45		retrograde	1628 Apr 19 11:56	3° <b>⋜</b> 09'51	
retrograde	1622 Nov 15 21:50	29° <b>©</b> 20'57		-	1628 Jun 05 15:12	30°R. <b>✓</b>	
opposition	1623 Jan 14 15:45	24° <b>©</b> 19'28	0°29'44	opposition	1628 Jun 19 09:11	28° <b>√</b> 16'53	0°14'20
min. Earth dist.	1623 Jan 13 19:48	24°\$26'10	4.27664 AU	min. Earth dist.	1628 Jun 20 17:55	28°×1033	4.21911 AU
			4.27004 AU				4.21911 AU
direct	1623 Mar 15 20:44	19° <b>©</b> 17'36		direct	1628 Aug 19 19:53	23° <b>≯</b> 19'38	
	1623 Jun 15 07:35	$0$ $^{\circ}$ $\Omega$		desc. node	1628 Sep 28 19:20	25° <b>∡</b> ⁴44'21	
evening set	1623 Jul 20 18:20	7° <b>Ω</b> 26′07			1628 Oct 27 15:04	0°ठ	
				evening set	1628 Dec 23 02:27	11° <b>る</b> 52'53	
conjunction	1623 Aug 03 07:03	10° <b>Ω</b> 24'13	0°37'08	max. Earth dist.	1629 Jan 03 06:38	14° <b>る</b> 29'09	6.14664 AU
minimum elong	1623 Aug 03 07:01	10° <b>Ω</b> 24'11	0°37'08	man. Darin and.	102) 0411 05 00.50	1. 02, 0,	0.1.00.110
C	· ·				1620 I 04 10 20	140750141	0000122
max. Earth dist.	1623 Aug 03 23:13	10° <b>Ω</b> 33'06	6.34052 AU	conjunction	1629 Jan 04 19:30	14° <b>ろ</b> 50'41	
morning rise	1623 Aug 16 18:02	13° <b>Ω</b> 21'11		minimum elong	1629 Jan 04 19:30	14° <b>る</b> 50'41	0°09'33
	1623 Aug 24 08:19	15° <b>Ω</b>		behind sun begin	1629 Jan 04 12:48	14° <b>る</b> 46'48	
	1623 Nov 25 17:18	0° <b>m</b> y		behind sun end	1629 Jan 05 02:11	14° <b>る</b> 54'34	
retrograde	1623 Dec 16 20:52	0° m 42'39		morning rise	1629 Jan 17 13:15	17° <b>る</b> 49'05	
C	1624 Jan 06 20:53	30°R <b>Ω</b>		· ·	1629 Mar 15 23:10	0° <b>≈</b>	
opposition	1624 Feb 14 21:45		1°13'34	retrograde	1629 May 25 09:28	6°≈58'53	
min. Earth dist.		25°Ω45'33	4.39256 AU	•	1629 Jul 25 00:39		0042121
	1624 Feb 14 19:48		4.39230 AU	opposition		2°≈03'17	
direct	1624 Apr 16 10:24	20° <b>Ω</b> 41'59		min. Earth dist.	1629 Jul 25 17:03	1° <b>≈</b> 57'57	4.07671 AU
	1624 Jul 11 01:00	0° <b>m</b> )			1629 Aug 10 08:39	30°Ŗる	
evening set	1624 Aug 21 07:09	8°Mp24'18		direct	1629 Sep 23 00:04	27° <b>る</b> 08'26	
					1629 Nov 04 18:01	0° <b>≈</b>	
conjunction	1624 Sep 03 12:32	11° <b>m</b> ) 15'42	1°00'31		1630 Jan 20 13:18	15° <b>≈</b>	
minimum elong	1624 Sep 03 12:30	11° <b>m</b> ) 15'41	1°00'32	evening set	1630 Jan 26 05:02	16° <b>≈</b> 20'30	
max. Earth dist.	1624 Sep 03 02:22	11° <b>m</b> )10'11	6.43004 AU	· · · · · · · · · · · · · · · · · · ·			
morning rise	1624 Sep 16 14:56	14° Mp 05'38	0.43004 710	conjunction	1630 Feb 08 02:29	19° <b>≈</b> 25'42	0945104
morning rise	•			•			
	1624 Dec 21 15:20	0∘ <b>⊽</b>		minimum elong	1630 Feb 08 02:27	19° <b>≈</b> 25'41	
retrograde	1625 Jan 14 23:16	0° <b>ჲ</b> 55'35		max. Earth dist.	1630 Feb 07 17:43	19° <b>≈</b> 20′27	6.01782 AU
	1625 Feb 08 07:25	30°R, Mp		morning rise	1630 Feb 21 01:52	22° <b>≈</b> 32'11	
opposition	1625 Mar 16 09:45	26° Mp 01'07	1°35'30		1630 Mar 25 12:13	0° <b>∀</b>	
min. Earth dist.	1625 Mar 17 00:52	25° <b>m</b> 56'14	4.45105 AU	retrograde	1630 Jul 02 05:10	12° <b>)</b> 45′27	
direct	1625 May 17 19:49	20° m 58'23		opposition	1630 Aug 31 09:09	7° <b>)</b> 46′07	-1°27'07
	1625 Aug 10 14:58	0∘ <u>v</u>		min. Earth dist.	1630 Aug 31 04:13	7° <b>¥</b> 47'45	3.97450 AU
evening set	1625 Sep 21 11:20	ა <b>–</b> 8° <b>ჲ</b> 29'24		direct	1630 Oct 29 00:39	2° <b>)</b> 52'32	3.57 130 110
max. Earth dist.	1625 Oct 02 23:01	10° <b>≏</b> 58'22	C 4500C ATT			22° <del>)(</del> 32'14	
max. Earm dist.	1023 Oct 02 23.01	10 == 38 22	6.45226 AU	evening set	1631 Mar 03 09:22	22 <b>X</b> 32 14	
conjunction	1625 Oct 04 09:25	11° <b>≏</b> 17'01		conjunction	1631 Mar 16 13:46	25° <b>)</b> 43′35	
conjunction minimum elong	1625 Oct 04 09:25 1625 Oct 04 09:25	11° <b>♀</b> 17'01 11° <b>♀</b> 17'01		conjunction minimum elong	1631 Mar 16 13:46 1631 Mar 16 13:45	25° <b>)</b> 43'35 25° <b>)</b> 43'35	-1°04'53 1°04'54
3				3			
minimum elong	1625 Oct 04 09:25	11° <b>£</b> 17′01 14° <b>£</b> 03′21		minimum elong max. Earth dist.	1631 Mar 16 13:45 1631 Mar 17 13:27	25°¥43'35 25°¥57'56	1°04'54
minimum elong morning rise	1625 Oct 04 09:25 1625 Oct 17 04:48 1626 Jan 22 04:30	11° <b>⊆</b> 17'01 14° <b>⊆</b> 03'21 0° <b>M</b>		minimum elong	1631 Mar 16 13:45 1631 Mar 17 13:27 1631 Mar 29 21:16	25°¥43'35 25°¥57'56 28°¥56'38	1°04'54
minimum elong	1625 Oct 04 09:25 1625 Oct 17 04:48 1626 Jan 22 04:30 1626 Feb 14 08:57	11°♀17'01 14°♀03'21 0°M 0°M49'49		minimum elong max. Earth dist. morning rise	1631 Mar 16 13:45 1631 Mar 17 13:27 1631 Mar 29 21:16 1631 Apr 03 07:00	25°¥43'35 25°¥57'56 28°¥56'38 0°Υ	1°04'54
minimum elong morning rise retrograde	1625 Oct 04 09:25 1625 Oct 17 04:48 1626 Jan 22 04:30 1626 Feb 14 08:57 1626 Mar 09 12:37	11° <b>Ω</b> 17'01 14° <b>Ω</b> 03'21 0° <b>M</b> 0° <b>M</b> 49'49 30° <b>RΩ</b>	1°06'52	minimum elong max. Earth dist. morning rise retrograde	1631 Mar 16 13:45 1631 Mar 17 13:27 1631 Mar 29 21:16 1631 Apr 03 07:00 1631 Aug 09 10:26	25°\\$43'35 25°\\$57'56 28°\\$56'38 0°\Y 19°\Y38'53	1°04'54 5.95144 AU
minimum elong morning rise retrograde opposition	1625 Oct 04 09:25 1625 Oct 17 04:48 1626 Jan 22 04:30 1626 Feb 14 08:57 1626 Mar 09 12:37 1626 Apr 16 02:17	11° \$\Delta\$ 17'01 14° \$\Delta\$ 03'21 0° \$\mathbb{M}\$ 0° \$\mathbb{M}\$ 49'49 30° \$\mathbb{R}\$ \$\Delta\$ 55° \$\Delta\$ 57'27	1°06′52 1°31′53	minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	1631 Mar 16 13:45 1631 Mar 17 13:27 1631 Mar 29 21:16 1631 Apr 03 07:00 1631 Aug 09 10:26 1631 Oct 07 02:49	25°\\$43'35 25°\\$57'56 28°\\$56'38 0°19°\\$38'53 14°\\$44'32	1°04'54 5.95144 AU 3.95308 AU
minimum elong morning rise retrograde opposition min. Earth dist.	1625 Oct 04 09:25 1625 Oct 17 04:48 1626 Jan 22 04:30 1626 Feb 14 08:57 1626 Mar 09 12:37 1626 Apr 16 02:17 1626 Apr 17 08:37	11° <b>Ω</b> 17'01 14° <b>Ω</b> 03'21 0° <b>M</b> 0° <b>M</b> 49'49 30° R <b>Ω</b> 25° <b>Ω</b> 57'27 25° <b>Ω</b> 47'45	1°06'52	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	1631 Mar 16 13:45 1631 Mar 17 13:27 1631 Mar 29 21:16 1631 Apr 03 07:00 1631 Aug 09 10:26 1631 Oct 07 02:49 1631 Oct 08 04:40	25°\\$43'35 25°\\$57'56 28°\\$56'38 0°19°\\$38'53 14°\\$44'32 14°\\$35'48	1°04'54 5.95144 AU 3.95308 AU
minimum elong morning rise retrograde opposition	1625 Oct 04 09:25 1625 Oct 17 04:48 1626 Jan 22 04:30 1626 Feb 14 08:57 1626 Mar 09 12:37 1626 Apr 16 02:17 1626 Apr 17 08:37 1626 Jun 17 21:50	11° \( \Omega\) 17'01 14° \( \Omega\) 03'21 0° \( \Dma\) 0° \( \Dma\) 49'49 30° \( \Omega\) \( \Omega\) 25° \( \Omega\) 57'27 25° \( \Omega\) 47'45 20° \( \Omega\) 55'49	1°06′52 1°31′53	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	1631 Mar 16 13:45 1631 Mar 17 13:27 1631 Mar 29 21:16 1631 Apr 03 07:00 1631 Aug 09 10:26 1631 Oct 07 02:49 1631 Oct 08 04:40 1631 Dec 05 01:22	25°\\$43'35 25°\\$57'56 28°\\$56'38 0°\Tag{19}^\\$738'53 14°\\$744'32 14°\\$35'48 9°\\$741'23	1°04'54 5.95144 AU 3.95308 AU
minimum elong morning rise retrograde opposition min. Earth dist.	1625 Oct 04 09:25 1625 Oct 17 04:48 1626 Jan 22 04:30 1626 Feb 14 08:57 1626 Mar 09 12:37 1626 Apr 16 02:17 1626 Apr 17 08:37	11° <b>Ω</b> 17'01 14° <b>Ω</b> 03'21 0° <b>M</b> 0° <b>M</b> 49'49 30° R <b>Ω</b> 25° <b>Ω</b> 57'27 25° <b>Ω</b> 47'45	1°06′52 1°31′53	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	1631 Mar 16 13:45 1631 Mar 17 13:27 1631 Mar 29 21:16 1631 Apr 03 07:00 1631 Aug 09 10:26 1631 Oct 07 02:49 1631 Oct 08 04:40	25°\delta43'35 25°\delta57'56 28°\delta56'38 0°\gamma 19°\gamma38'53 14°\gamma44'32 14°\gamma35'48 9°\gamma41'23 29°\gamma23'26	1°04'54 5.95144 AU 3.95308 AU
minimum elong morning rise retrograde opposition min. Earth dist.	1625 Oct 04 09:25 1625 Oct 17 04:48 1626 Jan 22 04:30 1626 Feb 14 08:57 1626 Mar 09 12:37 1626 Apr 16 02:17 1626 Apr 17 08:37 1626 Jun 17 21:50	11° \( \Omega\) 17'01 14° \( \Omega\) 03'21 0° \( \Dma\) 0° \( \Dma\) 49'49 30° \( \Omega\) \( \Omega\) 25° \( \Omega\) 57'27 25° \( \Omega\) 47'45 20° \( \Omega\) 55'49	1°06′52 1°31′53	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	1631 Mar 16 13:45 1631 Mar 17 13:27 1631 Mar 29 21:16 1631 Apr 03 07:00 1631 Aug 09 10:26 1631 Oct 07 02:49 1631 Oct 08 04:40 1631 Dec 05 01:22	25°\\$43'35 25°\\$57'56 28°\\$56'38 0°\Tag{19}^\\$738'53 14°\\$744'32 14°\\$35'48 9°\\$741'23	1°04'54 5.95144 AU 3.95308 AU
minimum elong morning rise retrograde opposition min. Earth dist. direct	1625 Oct 04 09:25 1625 Oct 17 04:48 1626 Jan 22 04:30 1626 Feb 14 08:57 1626 Mar 09 12:37 1626 Apr 16 02:17 1626 Apr 17 08:37 1626 Jun 17 21:50 1626 Sep 10 13:05	11° \( \Omega\) 17'01 14° \( \Omega\) 03'21 0° \( \Dma\) 0° \( \Dma\) 49'49 30° \( \Omega\) 25° \( \Omega\) 57'27 25° \( \Omega\) 47'45 20° \( \Omega\) 55'49 0° \( \Dma\)	1°06′52 1°31′53	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	1631 Mar 16 13:45 1631 Mar 17 13:27 1631 Mar 29 21:16 1631 Apr 03 07:00 1631 Aug 09 10:26 1631 Oct 07 02:49 1631 Oct 08 04:40 1631 Dec 05 01:22 1632 Apr 08 21:05	25°\delta43'35 25°\delta57'56 28°\delta56'38 0°\gamma 19°\gamma38'53 14°\gamma44'32 14°\gamma35'48 9°\gamma41'23 29°\gamma23'26	1°04'54 5.95144 AU 3.95308 AU
minimum elong morning rise retrograde opposition min. Earth dist. direct	1625 Oct 04 09:25 1625 Oct 17 04:48 1626 Jan 22 04:30 1626 Feb 14 08:57 1626 Mar 09 12:37 1626 Apr 16 02:17 1626 Apr 17 08:37 1626 Jun 17 21:50 1626 Sep 10 13:05 1626 Oct 22 01:04	11° \( \Omega\) 17'01 14° \( \Omega\) 03'21 0° \( \mathrm{\text{\$\mathrm{N}\$}}\) 0° \( \mathrm{\text{\$\mathrm{N}\$}}\) 49'49 30° \( \mathrm{\text{\$\Omega\}}\) 25° \( \Omega\) 57'27 25° \( \Omega\) 47'45 20° \( \Omega\) 55'49 0° \( \mathrm{\text{\$\mathrm{N}\$}}\) 32'19	1°06'52 1°31'53 4.43656 AU	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set	1631 Mar 16 13:45 1631 Mar 17 13:27 1631 Mar 29 21:16 1631 Apr 03 07:00 1631 Aug 09 10:26 1631 Oct 07 02:49 1631 Oct 08 04:40 1631 Dec 05 01:22 1632 Apr 08 21:05 1632 Apr 11 10:26	25°\(\frac{4}{3}\)'35 25°\(\frac{4}{5}\)'56 28°\(\frac{5}{6}\)'38 0°\(\frac{9}{1}\)'938'53 14°\(\frac{9}{4}\)'32 14°\(\frac{9}{3}\)'48 9°\(\frac{9}{4}\)'23 29°\(\frac{9}{2}\)'23'26 0°\(\frac{8}{3}\)	1°04′54 5.95144 AU 3.95308 AU -1°38′27
minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.	1625 Oct 04 09:25 1625 Oct 17 04:48 1626 Jan 22 04:30 1626 Feb 14 08:57 1626 Mar 09 12:37 1626 Apr 16 02:17 1626 Apr 17 08:37 1626 Jun 17 21:50 1626 Sep 10 13:05 1626 Oct 22 01:04 1626 Nov 01 18:02	11° \( \Omega\) 17'01 14° \( \Omega\) 03'21 0° \( \Omega\) 0° \( \Omega\) 49'49 30° \( \Omega\) \( \Omega\) 55'27 25° \( \Omega\) 47'45 20° \( \Omega\) 55'49 0° \( \Omega\) 8° \( \Omega\) 32'19 10° \( \Omega\) 53'19	1°06'52 1°31'53 4.43656 AU 6.40134 AU	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set	1631 Mar 16 13:45 1631 Mar 17 13:27 1631 Mar 29 21:16 1631 Apr 03 07:00 1631 Aug 09 10:26 1631 Oct 07 02:49 1631 Oct 08 04:40 1631 Dec 05 01:22 1632 Apr 08 21:05 1632 Apr 11 10:26	25°\(\frac{4}{3}\)'35 25°\(\frac{4}{5}\)'56' 28°\(\frac{5}{6}\)'38' 0°\(\Gamma\)'19°\(\Gamma\)'38'53 14°\(\Gamma\)'44'32 14°\(\Gamma\)'35'48 9°\(\Gamma\)'123 29°\(\Gamma\)'23'26 0°\(\Gamma\)'	1°04′54 5.95144 AU 3.95308 AU -1°38′27
minimum elong morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction	1625 Oct 04 09:25 1625 Oct 17 04:48 1626 Jan 22 04:30 1626 Feb 14 08:57 1626 Mar 09 12:37 1626 Apr 16 02:17 1626 Apr 17 08:37 1626 Jun 17 21:50 1626 Sep 10 13:05 1626 Oct 22 01:04 1626 Nov 01 18:02	11° \$\Omega 17'01\ 14° \$\Omega 03'21\ 0° \$\mathbb{m}\\ 0° \$\mathbb{m}\\ 49'49\ 30° \$\mathbb{n}\\ 25° \$\Omega 57'27\ 25° \$\Omega 47'45\ 20° \$\Omega 55'49\ 0° \$\mathbb{m}\\ 8° \$\mathbb{m}\\ 32'19\ 10° \$\mathbb{m}\\ 53'19\ 11° \$\mathbb{m}\\ 20'02	1°06'52 1°31'53 4.43656 AU 6.40134 AU 0°55'10	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong	1631 Mar 16 13:45 1631 Mar 17 13:27 1631 Mar 29 21:16 1631 Apr 03 07:00 1631 Aug 09 10:26 1631 Oct 07 02:49 1631 Oct 08 04:40 1631 Dec 05 01:22 1632 Apr 08 21:05 1632 Apr 11 10:26	25°\(\frac{4}{3}\)'35 25°\(\frac{4}{5}\)'56 28°\(\frac{5}{6}\)'38 0°\(\frac{7}{19}\)'38'53 14°\(\frac{7}{4}\)'32 14°\(\frac{7}{3}\)'48 9°\(\frac{7}{4}\)'23 29°\(\frac{7}{2}\)'26 0°\(\frac{2}{3}\)'721 2°\(\frac{3}{3}\)'722	1°04′54 5.95144 AU 3.95308 AU -1°38′27 -0°59′21 0°59′21
minimum elong morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong	1625 Oct 04 09:25 1625 Oct 17 04:48 1626 Jan 22 04:30 1626 Feb 14 08:57 1626 Mar 09 12:37 1626 Apr 16 02:17 1626 Apr 17 08:37 1626 Jun 17 21:50 1626 Sep 10 13:05 1626 Oct 22 01:04 1626 Nov 01 18:02 1626 Nov 03 18:31 1626 Nov 03 18:33	11° \$\Omega 17'01\] 14° \$\Omega 03'21\] 0° \$\mathbb{m}\$. 0° \$\mathbb{m}\$.49'49\] 30° \$\mathbb{R} \Omega 25° \$\Omega 57'27\] 25° \$\Omega 47'45\] 20° \$\Omega 55'49\] 0° \$\mathbb{m}\$.8° \$\mathbb{m}\$.32'19\] 11° \$\mathbb{m}\$.20'02\] 11° \$\mathbb{m}\$.20'03	1°06'52 1°31'53 4.43656 AU 6.40134 AU	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist.	1631 Mar 16 13:45 1631 Mar 17 13:27 1631 Mar 29 21:16 1631 Apr 03 07:00 1631 Aug 09 10:26 1631 Oct 07 02:49 1631 Oct 08 04:40 1631 Dec 05 01:22 1632 Apr 08 21:05 1632 Apr 11 10:26 1632 Apr 22 09:27 1632 Apr 22 09:29 1632 Apr 24 10:09	25°\(\frac{4}{3}'\)35 25°\(\frac{4}{3}'\)35 25°\(\frac{4}{5}''\)56'38 0°\(\gamma\) 19°\(\gamma\)38'53 14°\(\gamma\)44'32 14°\(\gamma\)35'48 9°\(\gamma\)41'23 29°\(\gamma\)23'26 0°\(\gamma\) 2°\(\gamma\)37'21 2°\(\gamma\)37'22 3°\(\gamma\)06'30	1°04′54 5.95144 AU 3.95308 AU -1°38′27
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minimum elong morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise	1625 Oct 04 09:25 1625 Oct 17 04:48 1626 Jan 22 04:30 1626 Feb 14 08:57 1626 Mar 09 12:37 1626 Apr 16 02:17 1626 Apr 17 08:37 1626 Jun 17 21:50 1626 Sep 10 13:05 1626 Oct 22 01:04 1626 Nov 01 18:02 1626 Nov 03 18:31 1626 Nov 03 18:33 1626 Nov 16 09:50	11° \$\Omega 17'01\] 14° \$\Omega 03'21\] 0° \$\mathbb{M}.\] 0° \$\mathbb{M}.49'49\] 30° \$\mathbb{A} \omega 25° \$\Omega 57'27\] 25° \$\Omega 47'45\] 20° \$\Omega 55'49\] 0° \$\mathbb{M}.\] 8° \$\mathbb{M}.32'19\] 11° \$\mathbb{M}.20'02\] 11° \$\mathbb{M}.20'03\] 14° \$\mathbb{M}.06'51\] 15° \$\mathbb{M}.\] 0° \$\nall 7'\]	1°06'52 1°31'53 4.43656 AU 6.40134 AU 0°55'10	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde	1631 Mar 16 13:45 1631 Mar 17 13:27 1631 Mar 29 21:16 1631 Apr 03 07:00 1631 Aug 09 10:26 1631 Oct 07 02:49 1631 Oct 08 04:40 1631 Dec 05 01:22 1632 Apr 08 21:05 1632 Apr 11 10:26 1632 Apr 22 09:27 1632 Apr 22 09:29 1632 Apr 24 10:09 1632 May 06 00:50	25°\(\frac{4}{3}'\)35 25°\(\frac{4}{3}'\)35 25°\(\frac{4}{5}'\)38 0°\(\gamma\) 19°\(\gamma\)38'\53 14°\(\gamma\)44'\32 14°\(\gamma\)35'\48 9°\(\gamma\)41'\23 29°\(\gamma\)23'\26 0°\(\gamma\) 2°\(\gamma\)37'\21 2°\(\gamma\)37'\22 3°\(\gamma\)306'\30 5°\(\gamma\)52'\39 15°\(\gamma\) 26°\(\gamma\)12'\00	1°04′54 5.95144 AU 3.95308 AU -1°38′27 -0°59′21 0°59′21 5.97612 AU
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minimum elong morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise	1625 Oct 04 09:25 1625 Oct 17 04:48 1626 Jan 22 04:30 1626 Feb 14 08:57 1626 Mar 09 12:37 1626 Apr 16 02:17 1626 Apr 17 08:37 1626 Jun 17 21:50 1626 Sep 10 13:05 1626 Oct 22 01:04 1626 Nov 01 18:02 1626 Nov 03 18:31 1626 Nov 03 18:33 1626 Nov 16 09:50 1626 Nov 20 11:07 1627 Feb 16 16:03	11° \$\Omega 17'01\] 14° \$\Omega 03'21\] 0° \$\mathbb{M}.\] 0° \$\mathbb{M}.49'49\] 30° \$\mathbb{A} \omega 25° \$\Omega 57'27\] 25° \$\Omega 47'45\] 20° \$\Omega 55'49\] 0° \$\mathbb{M}.\] 8° \$\mathbb{M}.32'19\] 11° \$\mathbb{M}.20'02\] 11° \$\mathbb{M}.20'03\] 14° \$\mathbb{M}.06'51\] 15° \$\mathbb{M}.\] 0° \$\nall 7'\]	1°06'52 1°31'53 4.43656 AU 6.40134 AU 0°55'10	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde	1631 Mar 16 13:45 1631 Mar 17 13:27 1631 Mar 29 21:16 1631 Apr 03 07:00 1631 Aug 09 10:26 1631 Oct 07 02:49 1631 Oct 08 04:40 1631 Dec 05 01:22 1632 Apr 08 21:05 1632 Apr 11 10:26  1632 Apr 22 09:27 1632 Apr 22 09:29 1632 Apr 24 10:09 1632 May 06 00:50 1632 Jun 15 09:29 1632 Sep 14 08:44	25°\(\frac{4}{3}'\)35 25°\(\frac{4}{3}'\)35 25°\(\frac{4}{5}'\)38 0°\(\gamma\) 19°\(\gamma\)38'\53 14°\(\gamma\)44'\32 14°\(\gamma\)35'\48 9°\(\gamma\)41'\23 29°\(\gamma\)23'\26 0°\(\gamma\) 2°\(\gamma\)37'\21 2°\(\gamma\)37'\22 3°\(\gamma\)306'\30 5°\(\gamma\)52'\39 15°\(\gamma\) 26°\(\gamma\)12'\00	1°04′54 5.95144 AU 3.95308 AU -1°38′27 -0°59′21 0°59′21 5.97612 AU 4.02140 AU
minimum elong morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise	1625 Oct 04 09:25 1625 Oct 17 04:48 1626 Jan 22 04:30 1626 Feb 14 08:57 1626 Mar 09 12:37 1626 Apr 16 02:17 1626 Apr 17 08:37 1626 Jun 17 21:50 1626 Sep 10 13:05 1626 Oct 22 01:04 1626 Nov 01 18:02 1626 Nov 03 18:31 1626 Nov 03 18:33 1626 Nov 16 09:50 1626 Nov 20 11:07 1627 Feb 16 16:03 1627 Mar 17 21:31	11° \$\Delta 17'01 14° \$\Delta 03'21 0° \mathbb{m}. 0° \mathbb{m}.49'49 30° \mathbb{R}.\Delta 25° \$\Delta 57'27 25° \$\Delta 47'45 20° \$\Delta 55'49 0° \mathbb{m}. 8° \mathbb{m}.32'19 10° \mathbb{m}.53'19 11° \mathbb{m}.20'02 11° \mathbb{m}.20'03 14° \mathbb{m}.06'51 15° \mathbb{m}. 0° \$\nall 10" \nall 18'17	1°06'52 1°31'53 4.43656 AU 6.40134 AU 0°55'10	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde min. Earth dist.	1631 Mar 16 13:45 1631 Mar 17 13:27 1631 Mar 29 21:16 1631 Apr 03 07:00 1631 Aug 09 10:26 1631 Oct 07 02:49 1631 Oct 08 04:40 1631 Dec 05 01:22 1632 Apr 08 21:05 1632 Apr 11 10:26  1632 Apr 22 09:27 1632 Apr 22 09:29 1632 Apr 24 10:09 1632 May 06 00:50 1632 Jun 15 09:29 1632 Sep 14 08:44 1632 Nov 11 11:38	25°\(\frac{4}{3}\)'35 25°\(\frac{4}{3}\)'35 25°\(\frac{4}{3}\)'56'38 0°\(\frac{9}{1}\)'9°\(\frac{3}{3}\)'53 14°\(\frac{4}{4}\)'32 14°\(\frac{7}{3}\)'48 9°\(\frac{4}{1}\)'23 29°\(\frac{2}{3}\)'22 3°\(\frac{3}{3}\)'22 3°\(\frac{3}{3}\)'22 3°\(\frac{3}{3}\)'22 3°\(\frac{3}{3}\)'22 3°\(\frac{3}{3}\)'22 3°\(\frac{3}{3}\)'22 3°\(\frac{3}{3}\)'22 3°\(\frac{3}{3}\)'22 3°\(\frac{3}{3}\)'21 2°\(\frac{3}{3}\)'22 3°\(\frac{3}{3}\)'21 2°\(\frac{3}{3}\)'22 3°\(\frac{3}{3}\)'22 3°\(\frac{3}{3}\)'21 2°\(\frac{3}{3}\)'22 3°\(\frac{3}{3}\)'22 3°\(\frac{3}{3}\)'30 5°\(\frac{3}{3}\)'30 5°\(\frac{3}\)'30 5°\(\frac{3}{3}\)'30 5°\(\f	1°04′54 5.95144 AU 3.95308 AU -1°38′27 -0°59′21 0°59′21 5.97612 AU 4.02140 AU
minimum elong morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde  opposition	1625 Oct 04 09:25 1625 Oct 17 04:48 1626 Jan 22 04:30 1626 Feb 14 08:57 1626 Mar 09 12:37 1626 Apr 16 02:17 1626 Apr 17 08:37 1626 Jun 17 21:50 1626 Sep 10 13:05 1626 Oct 22 01:04 1626 Nov 01 18:02 1626 Nov 03 18:31 1626 Nov 03 18:33 1626 Nov 16 09:50 1626 Nov 20 11:07 1627 Feb 16 16:03 1627 Mar 17 21:31 1627 Apr 16 06:45 1627 May 17 20:16	11° \$\Omega 17'01  14° \$\Omega 03'21  0° \$\mathbb{m}\$.  0° \$\mathbb{m}\$.49'49  30° \$\mathbb{n}\$.  25° \$\Omega 57'27  25° \$\Omega 47'45  20° \$\Omega 55'49  0° \$\mathbb{m}\$.  8° \$\mathbb{m}\$.32'19  11° \$\mathbb{m}\$.20'02  11° \$\mathbb{m}\$.20'03  14° \$\mathbb{m}\$.06'51  15° \$\mathbb{m}\$.  0° \$\nall 18'17  30° \$\mathbb{m}\$.  26° \$\mathbb{m}\$.26'22	1°06'52  1°31'53 4.43656 AU  6.40134 AU  0°55'10 0°55'11	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition	1631 Mar 16 13:45 1631 Mar 17 13:27 1631 Mar 29 21:16 1631 Apr 03 07:00 1631 Aug 09 10:26 1631 Oct 07 02:49 1631 Oct 08 04:40 1631 Dec 05 01:22 1632 Apr 08 21:05 1632 Apr 11 10:26  1632 Apr 22 09:27 1632 Apr 22 09:29 1632 Apr 24 10:09 1632 May 06 00:50 1632 Jun 15 09:29 1632 Sep 14 08:44 1632 Nov 11 11:38 1632 Nov 12 22:30 1633 Jan 10 00:10	25°\(\frac{4}{3}'\)35 25°\(\frac{4}{3}'\)35 25°\(\frac{4}{5}'\)38 0°\(\frac{9}{1}\)9°\(\frac{9}{3}\)8'53 14°\(\frac{9}{4}'\)32 14°\(\frac{9}{3}'\)48 9°\(\frac{9}{4}'\)23 29°\(\frac{2}{3}'\)26 0°\(\frac{8}{3}\)7'21 2°\(\frac{3}{3}''\)22 3°\(\frac{9}{3}''\)21 2°\(\frac{3}{3}''\)21 2°\(\frac{3}{3}''\)31 15°\(\frac{3}{3}''\)32 16°\(\frac{3}{3}''\)33 16°\(\frac{3}''\)33 16°\(\frac{3}{3}	1°04′54 5.95144 AU 3.95308 AU -1°38′27 -0°59′21 0°59′21 5.97612 AU 4.02140 AU
minimum elong morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde  opposition min. Earth dist.	1625 Oct 04 09:25 1625 Oct 17 04:48 1626 Jan 22 04:30 1626 Feb 14 08:57 1626 Mar 09 12:37 1626 Apr 16 02:17 1626 Apr 17 08:37 1626 Jun 17 21:50 1626 Sep 10 13:05 1626 Oct 22 01:04 1626 Nov 01 18:02  1626 Nov 03 18:31 1626 Nov 03 18:33 1626 Nov 16 09:50 1626 Nov 20 11:07 1627 Feb 16 16:03 1627 Mar 17 21:31 1627 Apr 16 06:45 1627 May 17 20:16 1627 May 19 08:15	11° \$\Omega 17'01  14° \$\Omega 03'21  0° \$\mathbb{m}\$.  0° \$\mathbb{m}\$.49'49  30° \$\mathbb{n}\$.  25° \$\Omega 57'27  25° \$\Omega 47'45  20° \$\Omega 55'49  0° \$\mathbb{m}\$.  8° \$\mathbb{m} 32'19  10° \$\mathbb{m} .53'19  11° \$\mathbb{m} .20'02  11° \$\mathbb{m} .20'03  14° \$\mathbb{m} .06'51  15° \$\mathbb{m}\$.  0° \$\nabla 18'17  30° \$\mathbb{m}\$.  26° \$\mathbb{m} .26'22  26° \$\mathbb{m} .14'54	1°06'52  1°31'53 4.43656 AU  6.40134 AU 0°55'10 0°55'11	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct	1631 Mar 16 13:45 1631 Mar 17 13:27 1631 Mar 29 21:16 1631 Apr 03 07:00 1631 Aug 09 10:26 1631 Oct 07 02:49 1631 Oct 08 04:40 1631 Dec 05 01:22 1632 Apr 08 21:05 1632 Apr 11 10:26  1632 Apr 22 09:27 1632 Apr 22 09:29 1632 Apr 24 10:09 1632 May 06 00:50 1632 Jun 15 09:29 1632 Nov 11 11:38 1632 Nov 12 22:30 1633 Jan 10 00:10 1633 Apr 22 04:33	25°\;\(\frac{43'35}{25°\;\;\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1°04′54 5.95144 AU 3.95308 AU -1°38′27 -0°59′21 0°59′21 5.97612 AU 4.02140 AU
minimum elong morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde  opposition	1625 Oct 04 09:25 1625 Oct 17 04:48 1626 Jan 22 04:30 1626 Feb 14 08:57 1626 Mar 09 12:37 1626 Apr 16 02:17 1626 Apr 17 08:37 1626 Jun 17 21:50 1626 Sep 10 13:05 1626 Oct 22 01:04 1626 Nov 01 18:02  1626 Nov 03 18:31 1626 Nov 03 18:33 1626 Nov 16 09:50 1626 Nov 20 11:07 1627 Feb 16 16:03 1627 Mar 17 21:31 1627 Apr 16 06:45 1627 May 17 20:16 1627 May 19 08:15 1627 Jul 19 06:16	11° \$\times 17'01 14° \$\times 03'21 0° \$\times 0'' \times 0''' \times 25° \$\times 57'27 25° \$\times 47'45 20° \$\times 55'49 0° \$\times 0'' \times 3'19 11° \$\times 20'02 11° \$\times 20'03 14° \$\times 06'51 15° \$\times 0'' \times 18'17 30° \$\times 18'17	1°06'52  1°31'53 4.43656 AU  6.40134 AU  0°55'10 0°55'11	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition	1631 Mar 16 13:45 1631 Mar 17 13:27 1631 Mar 29 21:16 1631 Apr 03 07:00 1631 Aug 09 10:26 1631 Oct 07 02:49 1631 Oct 08 04:40 1631 Dec 05 01:22 1632 Apr 08 21:05 1632 Apr 11 10:26  1632 Apr 22 09:27 1632 Apr 22 09:29 1632 Apr 24 10:09 1632 May 06 00:50 1632 Jun 15 09:29 1632 Sep 14 08:44 1632 Nov 11 11:38 1632 Nov 12 22:30 1633 Jan 10 00:10	25°\(\frac{4}{3}'\)35 25°\(\frac{4}{3}'\)35 25°\(\frac{4}{5}'\)38 0°\(\frac{9}{1}\)9°\(\frac{9}{3}\)8'53 14°\(\frac{9}{4}'\)32 14°\(\frac{9}{3}'\)48 9°\(\frac{9}{4}'\)23 29°\(\frac{2}{3}'\)26 0°\(\frac{8}{3}\)7'21 2°\(\frac{3}{3}''\)22 3°\(\frac{9}{3}''\)21 2°\(\frac{3}{3}''\)21 2°\(\frac{3}{3}''\)31 15°\(\frac{3}{3}''\)32 16°\(\frac{3}{3}''\)33 16°\(\frac{3}''\)33 16°\(\frac{3}{3}	1°04′54 5.95144 AU 3.95308 AU -1°38′27 -0°59′21 0°59′21 5.97612 AU 4.02140 AU
minimum elong morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde  opposition min. Earth dist. direct	1625 Oct 04 09:25 1625 Oct 17 04:48 1626 Jan 22 04:30 1626 Feb 14 08:57 1626 Mar 09 12:37 1626 Apr 16 02:17 1626 Apr 17 08:37 1626 Jun 17 21:50 1626 Sep 10 13:05 1626 Oct 22 01:04 1626 Nov 01 18:02  1626 Nov 03 18:31 1626 Nov 03 18:33 1626 Nov 16 09:50 1626 Nov 20 11:07 1627 Feb 16 16:03 1627 Mar 17 21:31 1627 Apr 16 06:45 1627 May 17 20:16 1627 May 19 08:15 1627 Jul 19 06:16 1627 Oct 08 00:32	11° \$\times 17'01  14° \$\times 03'21  0° \$\mathbb{m}\$.  0° \$\mathbb{m} 49'49  30° \$\mathbb{m}\$.  25° \$\times 57'27  25° \$\times 47'45  20° \$\times 55'49  0° \$\mathbb{m}\$.  8° \$\mathbb{m} .32'19  11° \$\mathbb{m} .20'02  11° \$\mathbb{m} .20'03  14° \$\mathbb{m} .06'51  15° \$\mathbb{m}\$.  0° \$\nall \times 18'17  30° \$\mathbb{m}\$.  26° \$\mathbb{m} .26'22  26° \$\mathbb{m} .14'54  21° \$\mathbb{m} .26'38  0° \$\nall \times 18'17	1°06'52  1°31'53 4.43656 AU  6.40134 AU  0°55'10 0°55'11	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set	1631 Mar 16 13:45 1631 Mar 17 13:27 1631 Mar 29 21:16 1631 Apr 03 07:00 1631 Aug 09 10:26 1631 Oct 07 02:49 1631 Oct 08 04:40 1631 Dec 05 01:22 1632 Apr 08 21:05 1632 Apr 11 10:26  1632 Apr 22 09:27 1632 Apr 22 09:29 1632 Apr 24 10:09 1632 May 06 00:50 1632 Jun 15 09:29 1632 Sep 14 08:44 1632 Nov 11 11:38 1632 Nov 12 22:30 1633 Jan 10 00:10 1633 Apr 22 04:33 1633 May 16 07:00	25°\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;	1°04′54 5.95144 AU 3.95308 AU -1°38′27 -0°59′21 0°59′21 5.97612 AU 4.02140 AU -1°10′37
minimum elong morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde  opposition min. Earth dist. direct  evening set	1625 Oct 04 09:25 1625 Oct 17 04:48 1626 Jan 22 04:30 1626 Feb 14 08:57 1626 Mar 09 12:37 1626 Apr 16 02:17 1626 Apr 17 08:37 1626 Jun 17 21:50 1626 Sep 10 13:05 1626 Oct 22 01:04 1626 Nov 01 18:02  1626 Nov 03 18:31 1626 Nov 03 18:33 1626 Nov 16 09:50 1626 Nov 20 11:07 1627 Feb 16 16:03 1627 Mar 17 21:31 1627 Apr 16 06:45 1627 May 19 08:15 1627 Jul 19 06:16 1627 Oct 08 00:32 1627 Nov 21 22:41	11° \$\Omega 17'01  14° \$\Omega 03'21  0° \$\mathbb{m}\$.  0° \$\mathbb{m}\$.49'49  30° \$\mathbb{m}\$.25° \$\Omega 57'27  25° \$\Omega 47'45  20° \$\Omega 55'49  0° \$\mathbb{m}\$.80'19  11° \$\mathbb{m}\$.20'02  11° \$\mathbb{m}\$.20'03  14° \$\mathbb{m}\$.06'51  15° \$\mathbb{m}\$.  0° \$\neq 1\$' \$\mathbb{m}\$.18'17  30° \$\mathbb{m}\$.  26° \$\mathbb{m}\$.26'22  26° \$\mathbb{m}\$.14'54  21° \$\mathbb{m}\$.26'38  0° \$\neq 1\$' 9° \$\neq 25'04	1°06'52  1°31'53 4.43656 AU  6.40134 AU 0°55'10 0°55'11  1°03'10 4.35207 AU	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set	1631 Mar 16 13:45 1631 Mar 17 13:27 1631 Mar 29 21:16 1631 Apr 03 07:00 1631 Aug 09 10:26 1631 Oct 07 02:49 1631 Oct 08 04:40 1631 Dec 05 01:22 1632 Apr 08 21:05 1632 Apr 11 10:26  1632 Apr 22 09:27 1632 Apr 22 09:29 1632 Apr 24 10:09 1632 May 06 00:50 1632 Jun 15 09:29 1632 Sep 14 08:44 1632 Nov 11 11:38 1632 Nov 12 22:30 1633 Jan 10 00:10 1633 Apr 22 04:33 1633 May 16 07:00	25°\(\pma43'35\) 25°\(\pma43'35\) 25°\(\pma43'35\) 28°\(\pma56'38\) 0°\(\pma*19^\text{938'53}\) 14°\(\pma44'32\) 14°\(\pma35'48\) 9°\(\pma41'23\) 29°\(\pma23'26\) 0°\(\pma*23'26\) 0°\(\pma*23'26\) 0°\(\pma*23'22\) 3°\(\pma37'22\) 3°\(\pma37'22\) 3°\(\pma37'22\) 3°\(\pma37'22\) 3°\(\pma52'39\) 15°\(\pma*22'39\) 15°\(\pma212'39\) 15°\(\pma212'39\) 16°\(\pma30'51\) 0°\(\pma*15\) 5°\(\pma27'46\) 8°\(\pma39'19\)	1°04′54 5.95144 AU 3.95308 AU -1°38′27 -0°59′21 0°59′21 5.97612 AU 4.02140 AU -1°10′37
minimum elong morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde  opposition min. Earth dist. direct	1625 Oct 04 09:25 1625 Oct 17 04:48 1626 Jan 22 04:30 1626 Feb 14 08:57 1626 Mar 09 12:37 1626 Apr 16 02:17 1626 Apr 17 08:37 1626 Jun 17 21:50 1626 Sep 10 13:05 1626 Oct 22 01:04 1626 Nov 01 18:02  1626 Nov 03 18:31 1626 Nov 03 18:33 1626 Nov 16 09:50 1626 Nov 20 11:07 1627 Feb 16 16:03 1627 Mar 17 21:31 1627 Apr 16 06:45 1627 May 17 20:16 1627 May 19 08:15 1627 Jul 19 06:16 1627 Oct 08 00:32	11° \$\times 17'01  14° \$\times 03'21  0° \$\mathbb{m}\$.  0° \$\mathbb{m} 49'49  30° \$\mathbb{m}\$.  25° \$\times 57'27  25° \$\times 47'45  20° \$\times 55'49  0° \$\mathbb{m}\$.  8° \$\mathbb{m} .32'19  11° \$\mathbb{m} .20'02  11° \$\mathbb{m} .20'03  14° \$\mathbb{m} .06'51  15° \$\mathbb{m}\$.  0° \$\nall \times 18'17  30° \$\mathbb{m}\$.  26° \$\mathbb{m} .26'22  26° \$\mathbb{m} .14'54  21° \$\mathbb{m} .26'38  0° \$\nall \times 18'17	1°06'52  1°31'53 4.43656 AU  6.40134 AU  0°55'10 0°55'11	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong	1631 Mar 16 13:45 1631 Mar 17 13:27 1631 Mar 29 21:16 1631 Apr 03 07:00 1631 Aug 09 10:26 1631 Oct 07 02:49 1631 Oct 08 04:40 1631 Dec 05 01:22 1632 Apr 08 21:05 1632 Apr 11 10:26  1632 Apr 22 09:27 1632 Apr 22 09:29 1632 Apr 24 10:09 1632 May 06 00:50 1632 Jun 15 09:29 1632 Sep 14 08:44 1632 Nov 11 11:38 1632 Nov 12 22:30 1633 Jan 10 00:10 1633 Apr 22 04:33 1633 May 30 00:53 1633 May 30 00:55	25°\(\pma43'35\) 25°\(\pma43'35\) 25°\(\pma43'35\) 28°\(\pma56'38\) 0°\(\pma'\) 19°\(\pma38'53\) 14°\(\pma44'32\) 14°\(\pma35'48\) 9°\(\pma41'23\) 29°\(\pma23'26\) 0°\(\pma'\) 2°\(\pma37'21\) 2°\(\pma37'21\) 2°\(\pma37'22\) 3°\(\pma66'30\) 5°\(\pma52'39\) 15°\(\pma'\) 26°\(\pma12'00\) 21°\(\pma18'48\) 21°\(\pma60'54\) 16°\(\pma09'51\) 0°\(\pma'\) 5°\(\pma27'46\) 8°\(\pma39'19\) 8°\(\pma39'20\)	1°04′54 5.95144 AU 3.95308 AU -1°38′27 -0°59′21 0°59′21 5.97612 AU 4.02140 AU -1°10′37
minimum elong morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde  opposition min. Earth dist. direct  evening set	1625 Oct 04 09:25 1625 Oct 17 04:48 1626 Jan 22 04:30 1626 Feb 14 08:57 1626 Mar 09 12:37 1626 Apr 16 02:17 1626 Apr 17 08:37 1626 Jun 17 21:50 1626 Sep 10 13:05 1626 Oct 22 01:04 1626 Nov 01 18:02  1626 Nov 03 18:31 1626 Nov 16 09:50 1626 Nov 16 09:50 1626 Nov 20 11:07 1627 Feb 16 16:03 1627 Mar 17 21:31 1627 Apr 16 06:45 1627 May 19 08:15 1627 Jul 19 06:16 1627 Oct 08 00:32 1627 Nov 21 22:41 1627 Dec 02 13:47	11° \$\Omega 17'01  14° \$\Omega 03'21  0° \$\mathbb{m}\$.  0° \$\mathbb{m}\$.49'49  30° \$\mathbb{m}\$.25° \$\Omega 57'27  25° \$\Omega 47'45  20° \$\Omega 55'49  0° \$\mathbb{m}\$.80'19  11° \$\mathbb{m}\$.20'02  11° \$\mathbb{m}\$.20'03  14° \$\mathbb{m}\$.06'51  15° \$\mathbb{m}\$.  0° \$\neq 1\$' \$\mathbb{m}\$.18'17  30° \$\mathbb{m}\$.  26° \$\mathbb{m}\$.26'22  26° \$\mathbb{m}\$.14'54  21° \$\mathbb{m}\$.26'38  0° \$\neq 1\$' 9° \$\neq 25'04	1°06'52  1°31'53 4.43656 AU  6.40134 AU 0°55'10 0°55'11  1°03'10 4.35207 AU	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set	1631 Mar 16 13:45 1631 Mar 17 13:27 1631 Mar 29 21:16 1631 Apr 03 07:00 1631 Aug 09 10:26 1631 Oct 07 02:49 1631 Oct 08 04:40 1631 Dec 05 01:22 1632 Apr 08 21:05 1632 Apr 11 10:26  1632 Apr 22 09:27 1632 Apr 22 09:29 1632 Apr 24 10:09 1632 Apr 24 10:09 1632 May 06 00:50 1632 Jun 15 09:29 1632 Sep 14 08:44 1632 Nov 11 11:38 1632 Nov 12 22:30 1633 Jan 10 00:10 1633 Apr 22 04:33 1633 May 30 00:53 1633 May 30 00:55 1633 Jun 01 08:34	25°\(\frac{4}{3}\)'35 25°\(\frac{4}{3}\)'35 25°\(\frac{4}{3}\)'56 28°\(\frac{4}{5}\)'38 0°\(\frac{9}{1}\)'938'53 14°\(\frac{9}{4}\)'32 14°\(\frac{9}{3}\)'48 9°\(\frac{9}{4}\)'23 29°\(\frac{2}{3}\)'22 3°\(\frac{3}{3}\)'22 3°\(\frac{3}{3}\)'22 3°\(\frac{3}{3}\)'22 3°\(\frac{3}{3}\)'22 3°\(\frac{3}{3}\)'22 3°\(\frac{3}{3}\)'23 26°\(\frac{5}{1}\)'00 21°\(\frac{1}{3}\)'848 21°\(\frac{9}{3}\)'51 0°\(\frac{1}{3}\)'19 8°\(\frac{1}{3}\)'19 8°\(\frac{1}{3}\)'19 8°\(\frac{1}{3}\)'20 9°\(\frac{1}{1}\)'41	1°04′54 5.95144 AU 3.95308 AU -1°38′27 -0°59′21 0°59′21 5.97612 AU 4.02140 AU -1°10′37
minimum elong morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde  opposition min. Earth dist. direct  evening set	1625 Oct 04 09:25 1625 Oct 17 04:48 1626 Jan 22 04:30 1626 Feb 14 08:57 1626 Mar 09 12:37 1626 Apr 16 02:17 1626 Apr 17 08:37 1626 Jun 17 21:50 1626 Sep 10 13:05 1626 Oct 22 01:04 1626 Nov 01 18:02  1626 Nov 03 18:31 1626 Nov 03 18:33 1626 Nov 16 09:50 1626 Nov 20 11:07 1627 Feb 16 16:03 1627 Mar 17 21:31 1627 Apr 16 06:45 1627 May 19 08:15 1627 Jul 19 06:16 1627 Oct 08 00:32 1627 Nov 21 22:41	11° \$\Omega 17'01  14° \$\Omega 03'21  0° \$\mathbb{m}\$.  0° \$\mathbb{m}\$.49'49  30° \$\mathbb{m}\$.25° \$\Omega 57'27  25° \$\Omega 47'45  20° \$\Omega 55'49  0° \$\mathbb{m}\$.80'19  11° \$\mathbb{m}\$.20'02  11° \$\mathbb{m}\$.20'03  14° \$\mathbb{m}\$.06'51  15° \$\mathbb{m}\$.  0° \$\neq 1\$' \$\mathbb{m}\$.18'17  30° \$\mathbb{m}\$.  26° \$\mathbb{m}\$.26'22  26° \$\mathbb{m}\$.14'54  21° \$\mathbb{m}\$.26'38  0° \$\neq 1\$' 9° \$\neq 25'04	1°06'52  1°31'53 4.43656 AU  6.40134 AU 0°55'10 0°55'11  1°03'10 4.35207 AU	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong	1631 Mar 16 13:45 1631 Mar 17 13:27 1631 Mar 29 21:16 1631 Apr 03 07:00 1631 Aug 09 10:26 1631 Oct 07 02:49 1631 Oct 08 04:40 1631 Dec 05 01:22 1632 Apr 08 21:05 1632 Apr 11 10:26  1632 Apr 22 09:27 1632 Apr 22 09:29 1632 Apr 24 10:09 1632 May 06 00:50 1632 Jun 15 09:29 1632 Sep 14 08:44 1632 Nov 11 11:38 1632 Nov 12 22:30 1633 Jan 10 00:10 1633 Apr 22 04:33 1633 May 30 00:53 1633 May 30 00:55	25°\(\pma43'35\) 25°\(\pma43'35\) 25°\(\pma43'35\) 28°\(\pma56'38\) 0°\(\pma'\) 19°\(\pma38'53\) 14°\(\pma44'32\) 14°\(\pma35'48\) 9°\(\pma41'23\) 29°\(\pma23'26\) 0°\(\pma'\) 2°\(\pma37'21\) 2°\(\pma37'21\) 2°\(\pma37'22\) 3°\(\pma66'30\) 5°\(\pma52'39\) 15°\(\pma'\) 26°\(\pma12'00\) 21°\(\pma18'48\) 21°\(\pma60'54\) 16°\(\pma09'51\) 0°\(\pma'\) 5°\(\pma27'46\) 8°\(\pma39'19\) 8°\(\pma39'20\)	1°04′54 5.95144 AU 3.95308 AU -1°38′27 -0°59′21 0°59′21 5.97612 AU 4.02140 AU -1°10′37
minimum elong morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde  opposition min. Earth dist. direct  evening set max. Earth dist.	1625 Oct 04 09:25 1625 Oct 17 04:48 1626 Jan 22 04:30 1626 Feb 14 08:57 1626 Mar 09 12:37 1626 Apr 16 02:17 1626 Apr 17 08:37 1626 Jun 17 21:50 1626 Sep 10 13:05 1626 Oct 22 01:04 1626 Nov 01 18:02  1626 Nov 03 18:31 1626 Nov 16 09:50 1626 Nov 16 09:50 1626 Nov 20 11:07 1627 Feb 16 16:03 1627 Mar 17 21:31 1627 Apr 16 06:45 1627 May 19 08:15 1627 Jul 19 06:16 1627 Oct 08 00:32 1627 Nov 21 22:41 1627 Dec 02 13:47	11° \$\times 17'01 14° \$\times 03'21 0° M. 0° M.49'49 30° R.\$\times 25° \$\times 57'27 25° \$\times 47'45 20° \$\times 55'49 0° M. 8° M.32'19 10° M.53'19 11° M.20'02 11° M.20'03 14° M.06'51 15° M. 0° \$\times 1.00' \times 1.00' \ti	1°06'52  1°31'53 4.43656 AU  6.40134 AU 0°55'10 0°55'11  1°03'10 4.35207 AU  6.28959 AU 0°27'38	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist.	1631 Mar 16 13:45 1631 Mar 17 13:27 1631 Mar 29 21:16 1631 Apr 03 07:00 1631 Aug 09 10:26 1631 Oct 07 02:49 1631 Oct 08 04:40 1631 Dec 05 01:22 1632 Apr 08 21:05 1632 Apr 11 10:26  1632 Apr 22 09:27 1632 Apr 22 09:29 1632 Apr 24 10:09 1632 Apr 24 10:09 1632 May 06 00:50 1632 Jun 15 09:29 1632 Sep 14 08:44 1632 Nov 11 11:38 1632 Nov 12 22:30 1633 Jan 10 00:10 1633 Apr 22 04:33 1633 May 30 00:53 1633 May 30 00:55 1633 Jun 01 08:34	25°\(\frac{4}{3}\)'35 25°\(\frac{4}{3}\)'35 25°\(\frac{4}{3}\)'56 28°\(\frac{4}{5}\)'38 0°\(\frac{9}{1}\)'938'53 14°\(\frac{9}{4}\)'32 14°\(\frac{9}{3}\)'48 9°\(\frac{9}{4}\)'23 29°\(\frac{2}{3}\)'22 3°\(\frac{3}{3}\)'22 3°\(\frac{3}{3}\)'22 3°\(\frac{3}{3}\)'22 3°\(\frac{3}{3}\)'22 3°\(\frac{3}{3}\)'22 3°\(\frac{3}{3}\)'23 26°\(\frac{5}{1}\)'00 21°\(\frac{1}{3}\)'848 21°\(\frac{9}{3}\)'51 0°\(\frac{1}{3}\)'19 8°\(\frac{1}{3}\)'19 8°\(\frac{1}{3}\)'19 8°\(\frac{1}{3}\)'20 9°\(\frac{1}{1}\)'41	1°04′54 5.95144 AU 3.95308 AU -1°38′27 -0°59′21 0°59′21 5.97612 AU 4.02140 AU -1°10′37

retrograde	1633 Oct 19 01:42	1° <b>5</b> 09'07		minimum elong	1638 Nov 08 01:33	15° <b>M</b> .45'09	0°52'07
renograde	1633 Nov 14 12:10	30°R <b>Ⅱ</b>		morning rise	1638 Nov 20 16:31	18°M32'19	0 02 07
min. Earth dist.	1633 Dec 16 07:39		4.15133 AU	morning rise	1639 Jan 17 04:35	0° <b>⊼</b>	
opposition	1633 Dec 17 14:55	26° <b>I</b> I04'58		retrograde	1639 Mar 22 12:53	5° <b>√</b> 49'17	
direct	1634 Feb 14 16:21	21° <b>I</b> I04'57	0 10 00	opposition	1639 May 22 10:43	0° <b>√</b> 57'21	0°57'16
asc. node	1634 Apr 22 09:42	27° <b>II</b> 29'58		min. Earth dist.	1639 May 24 00:00	0°×3721	4.33580 AU
asc. node	1634 May 06 04:04	0°9		mm. Lartii dist.	1639 May 29 23:47	30°RM	4.55500 AC
evening set	1634 Jun 21 09:03	9° <b>9</b> 45'07		direct	1639 Jul 23 19:10	25°M57'56	
evening set	1034 Juli 21 09.03	9 5043 07		unect		23 II <b>c</b> 3730 0° <b>x</b> 7	
	1624 7 1 05 02 22	120550104	0007100		1639 Sep 15 02:58		
conjunction	1634 Jul 05 02:22	12°950'04	0°07'09	evening set	1639 Nov 26 09:04	14°×700'38	6 <b>27</b> 011 ATT
minimum elong	1634 Jul 05 02:21	12°950'04	0°07'09	max. Earth dist.	1639 Dec 06 23:41	16°×'24'52	6.27011 AU
behind sun begin	1634 Jul 04 18:42	12°545'47				=	
behind sun end	1634 Jul 05 10:00	12° <b>©</b> 54'21		conjunction	1639 Dec 09 00:52	16° <b>₹</b> 52'50	0°22'45
max. Earth dist.	1634 Jul 06 17:48	13° <b>©</b> 12'15	6.22491 AU	minimum elong	1639 Dec 09 00:54	16° <b>₹</b> 52'51	0°22'45
morning rise	1634 Jul 18 19:19	15° <b>©</b> 54'30		morning rise	1639 Dec 21 15:56	19° <b>∡</b> ⁴44'56	
	1634 Sep 29 09:43	$0$ $^{\circ}$ $\Omega$			1640 Feb 08 07:51	0°రె	
retrograde	1634 Nov 20 09:59	4° <b>Ω</b> 03'10		retrograde	1640 Apr 24 09:14	7° <b>る</b> 56'05	
	1635 Jan 11 22:55	30° <b>₹</b> 5		opposition	1640 Jun 24 06:24	3° <b>る</b> 02'49	0°06'23
min. Earth dist.	1635 Jan 18 10:56	29° <b>©</b> 08'05	4.29451 AU	min. Earth dist.	1640 Jun 25 12:57	2° <b>る</b> 53'01	4.19768 AU
opposition	1635 Jan 19 04:51	29° <b>©</b> 02'05	0°37'03		1640 Jul 19 21:37	30°₽ <b>⋌</b> ¹	
direct	1635 Mar 20 14:40	23° <b>©</b> 59'55		desc. node	1640 Aug 08 02:17	28° <b>₹</b> ³31'16	
	1635 May 25 08:59	$0^{\circ}\Omega$		direct	1640 Aug 24 11:24	28° <b>₹</b> 05'53	
evening set	1635 Jul 25 12:08	12° <b>Ω</b> 03'55			1640 Sep 28 18:03	8°0	
	1635 Aug 07 22:17	15° <b>Ω</b>		evening set	1640 Dec 27 18:56	16° <b>る</b> 45'08	
				max. Earth dist.	1641 Jan 08 03:42	19° <b>る</b> 24'46	6.12525 AU
conjunction	1635 Aug 08 00:02	15° <b>Ω</b> 00'57	0°41'22				
minimum elong	1635 Aug 07 23:59	15° <b>Ω</b> 00'56	0°41'21	conjunction	1641 Jan 09 12:32	19° <b>る</b> 44'03	-0°14'59
max. Earth dist.	1635 Aug 08 14:18	15° <b>Ω</b> 08'47	6.35691 AU	minimum elong	1641 Jan 09 12:31	19° <b>る</b> 44'02	0°14'59
morning rise	1635 Aug 21 09:39	17° <b>Ω</b> 56'43		behind sun begin	1641 Jan 09 09:17	19° <b>る</b> 42'09	
	1635 Oct 22 04:12	0° m		behind sun end	1641 Jan 09 15:44	19° <b>る</b> 45'55	
retrograde	1635 Dec 21 04:08	5° <b>m</b> )11'48		morning rise	1641 Jan 22 06:47	22° <b>る</b> 43'36	
opposition	1636 Feb 19 06:41	0° m) 14'32	1°18'09	morning rise	1641 Feb 23 13:45	0°≈	
min. Earth dist.	1636 Feb 19 06:29	0° m) 14'37	4.40599 AU	retrograde	1641 May 30 16:36	0 <b>~</b> 12° <b>≈</b> 03'46	
iiiii. Lattii dist.	1636 Feb 21 02:58	30°RΩ	4.40377 AO	opposition	1641 Jul 30 05:24	7°≈07'43	0.20,08
direct		25° <b>Ω</b> 11'36		min. Earth dist.	1641 Jul 30 03:24 1641 Jul 30 20:00	7°≈02'58	4.05716 AU
direct	1636 Apr 20 22:41 1636 Jun 19 03:26						4.03/16 AU
		0° Mp		direct	1641 Sep 28 00:37	2°≈13'10	
evening set	1636 Aug 25 19:11	12° <b>m</b> 50'46		. ,	1642 Jan 03 02:51	15°≈	
	1626 0 07 22 15	1.50 m. 41110	1000120	evening set	1642 Jan 31 05:16	21° <b>≈</b> 30′50	
conjunction	1636 Sep 07 23:15	15° Mp 41'19			1642 E. 1. 12. 02.22	240 - 27100	0040100
minimum elong	1636 Sep 07 23:13	15° Mp 41'18	1°02'31	conjunction	1642 Feb 13 03:32	24°≈37'08	
max. Earth dist.	1636 Sep 07 08:09	15° <b>m</b> 33'09	6.43911 AU	minimum elong	1642 Feb 13 03:29	24°≈37'06	0°49'09
morning rise	1636 Sep 21 00:39	18° m/30'28		max. Earth dist.	1642 Feb 12 22:29	24°≈34'05	6.00198 AU
_	1636 Nov 19 07:50	0∘ <b>⊽</b>		morning rise	1642 Feb 26 04:05	27°≈44'49	
retrograde	1637 Jan 19 06:39	5° <b>£</b> 17'39			1642 Mar 07 15:49	0° <b>∀</b>	
opposition	1637 Mar 20 17:25	0° <b>£</b> 23'34	1°36'32	retrograde	1642 Jul 07 15:22	18° <b>)</b> €05'34	
min. Earth dist.	1637 Mar 21 11:45	0° <b>≙</b> 17'38	4.45514 AU	opposition	1642 Sep 05 18:15	13° <b>)</b> €05'43	
	1637 Mar 23 18:23	30°R, My		min. Earth dist.	1642 Sep 05 09:02		3.96452 AU
direct	1637 May 22 06:40	25° Mp 20'52		direct	1642 Nov 03 04:57	8° <b>ℋ</b> 12'11	
	1637 Jul 19 20:18	0∘ <b>⊽</b>		evening set	1643 Mar 08 16:19	27° <b>) ₹</b> 54'30	
evening set	1637 Sep 25 19:24	12° <b>≏</b> 51'08			1643 Mar 17 08:03	$0$ ° $\Upsilon$	
max. Earth dist.	1637 Oct 07 04:19	15° <b>≙</b> 18'42	6.45086 AU				
				conjunction	1643 Mar 21 21:49	1° <b>Ƴ</b> 06'31	-1°05'43
conjunction	1637 Oct 08 16:48	15° <b>≏</b> 38'29	1°06'17	minimum elong	1643 Mar 21 21:49	1° <b>Y</b> 06'31	1°05'43
minimum elong	1637 Oct 08 16:48	15° <b>≏</b> 38'30	1°06'17	max. Earth dist.	1643 Mar 23 01:53	1° <b>Y</b> 23'32	5.94833 AU
morning rise	1637 Oct 21 11:17	18° <b>£</b> 24'34		morning rise	1643 Apr 04 06:30	4° <b>Y</b> 20'14	
	1637 Dec 20 04:07	0°M₊		retrograde	1643 Aug 14 18:56	25° <b>Y</b> '02'40	
retrograde	1638 Feb 18 16:23	5°M12'26		min. Earth dist.	1643 Oct 12 08:44	20° <b>Ƴ</b> 08'35	3.95748 AU
opposition	1638 Apr 20 11:42	0°M20'13	1°29'14	opposition	1643 Oct 13 12:41	19° <b>Y</b> 59'07	-1°36'42
min. Earth dist.	1638 Apr 21 18:38	0°M10'20	4.42976 AU	direct	1643 Dec 10 09:20	15° <b>Y</b> ′04'23	
	1638 Apr 23 03:02	30° <b>₹</b> Ω			1644 Mar 24 22:57	0°8	
direct				evening set	1644 Apr 14 05:58	4° <b>8</b> 44'16	
	1638 Jun 22 05:45	25° <b>≏</b> 18'49		C T CITITIS SCC			
uncer	1638 Jun 22 05:45	25° <b>£</b> 18'49 0° <b>™</b>		evening sec		. 0	
	•			C	•	7° <b>8</b> 58'07	-0°56'28
evening set	1638 Jun 22 05:45 1638 Aug 19 21:09 1638 Oct 26 08:33	0° <b>ጤ</b> 12° <b>ጤ</b> 57'09		conjunction	1644 Apr 27 19:28		
evening set	1638 Jun 22 05:45 1638 Aug 19 21:09 1638 Oct 26 08:33 1638 Nov 04 15:51	0°ጤ 12°ጤ57'09 15°ጤ	6.38959 AU	C	1644 Apr 27 19:28 1644 Apr 27 19:31	7° <b>엉</b> 58'07 7° <b>엉</b> 58'08	0°56'29
	1638 Jun 22 05:45 1638 Aug 19 21:09 1638 Oct 26 08:33	0° <b>ጤ</b> 12° <b>ጤ</b> 57'09	6.38959 AU	conjunction minimum elong max. Earth dist.	1644 Apr 27 19:28 1644 Apr 27 19:31 1644 Apr 30 00:20	7° <b>8</b> 58'07 7° <b>8</b> 58'08 8° <b>8</b> 29'39	
evening set	1638 Jun 22 05:45 1638 Aug 19 21:09 1638 Oct 26 08:33 1638 Nov 04 15:51	0°ጤ 12°ጤ57'09 15°ጤ		conjunction minimum elong	1644 Apr 27 19:28 1644 Apr 27 19:31	7° <b>엉</b> 58'07 7° <b>엉</b> 58'08	0°56'29

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	1644 Aug 20 19:54	$\Pi^{\circ}0$		minimum elong	1649 Oct 12 22:04	19° <b>£</b> 55'03	1°05'21
retrograde	1644 Sep 19 11:23	1° <b>Ⅱ</b> 24'48		morning rise	1649 Oct 25 16:02	22° <b>£</b> 41'08	1 03 21
retrograde	1644 Oct 18 19:20	30°R <b>8</b>		morning risc	1649 Nov 30 00:11	0°M	
i. Edh di-d		. –	4.03896 AU				
min. Earth dist.	1644 Nov 16 12:51	. •		retrograde	1650 Feb 23 02:23	9°M32'11	1000111
opposition	1644 Nov 18 00:09	26° <b>8</b> 19'39	-1°04'0'/	opposition	1650 Apr 24 20:41	4°M40'08	1°26'11
direct	1645 Jan 15 04:37	21° <b>8</b> 22'09		min. Earth dist.	1650 Apr 26 06:11	4°M29'26	4.41760 AU
	1645 Apr 02 15:11	$\Pi$ $^{\circ}0$			1650 Jun 11 07:19	30°Ŗ <b>ჲ</b>	
evening set	1645 May 21 12:14	10° <b>Ⅱ</b> 34′09		direct	1650 Jun 26 14:50	29° <b>≏</b> 38'55	
					1650 Jul 11 22:46	$0^{\circ}$ M	
conjunction	1645 Jun 04 06:12	13° <b>∏</b> 44'47	-0°25'56		1650 Oct 19 21:02	15° <b>™</b>	
minimum elong	1645 Jun 04 06:14	13° <b>Ⅱ</b> 44'48	0°25'56	evening set	1650 Oct 30 15:43	17° <b>M</b> 20'52	
max. Earth dist.	1645 Jun 06 12:07	14° <b>Ⅱ</b> 15'57	6.10309 AU	max. Earth dist.	1650 Nov 10 06:21	19°M41'35	6.37238 AU
morning rise	1645 Jun 18 01:31	16° <b>Ⅱ</b> 55'45					
	1645 Aug 20 08:36	0°5		conjunction	1650 Nov 12 08:32	20°M09'25	0°48'48
retrograde	1645 Oct 23 17:02	6° <b>©</b> 02'29		minimum elong	1650 Nov 12 08:34	20°M09'26	0°48'48
min. Earth dist.	1645 Dec 21 01:53		4.17472 AU	morning rise	1650 Nov 24 23:20	22°M57'14	0 40 40
				morning rise			
opposition	1645 Dec 22 08:08	0°958'34	-0-1000		1650 Dec 28 04:03	0° ⊀ <sup>7</sup>	
	1645 Dec 29 13:59	30°R∏		retrograde	1651 Mar 27 03:35	10° <b>≯</b> 21'38	
direct	1646 Feb 19 14:07	25° <b>Ⅱ</b> 58'06		opposition	1651 May 27 02:01	5° <b>≯</b> 29'38	0°51'02
asc. node	1646 Mar 02 01:20	26° <b>Ⅱ</b> 08'58		min. Earth dist.	1651 May 28 14:17	5° <b>∡</b> 18'04	4.31469 AU
	1646 Apr 12 10:39	$0_{\circ}$		direct	1651 Jul 28 05:38	0° <b>∡</b> ³30'35	
evening set	1646 Jun 26 06:54	14° <b>©</b> 31'35		evening set	1651 Nov 30 20:53	18° <b>∡</b> ³39'15	
				max. Earth dist.	1651 Dec 11 13:39	21° <b>∡</b> ¹05′29	6.24685 AU
conjunction	1646 Jul 09 23:43	17° <b>©</b> 35'16	0°12'26				
minimum elong	1646 Jul 09 23:42	17° <b>©</b> 35'15	0°12'27	conjunction	1651 Dec 13 12:49	21° <b>∡</b> ³32′28	0°17'42
behind sun begin	1646 Jul 09 18:26	17° <b>©</b> 32'19		minimum elong	1651 Dec 13 12:50	21° <b>₹</b> ³32'28	0°17'43
behind sun end	1646 Jul 10 04:59	17°538'12		morning rise	1651 Dec 26 04:12	24° 🗷 25'40	0 17 15
max. Earth dist.	1646 Jul 11 12:36	17°955'55	6.24818 AU	morning risc	1652 Jan 20 07:20	0°る	
			0.24616 AU			12°る47'20	
morning rise	1646 Jul 23 15:39	20° <b>©</b> 38'15		retrograde	1652 Apr 29 11:43		
	1646 Sep 06 11:58	$0^{\circ}\Omega$		desc. node	1652 Jun 17 05:41	9° <b>る</b> 24'48	
retrograde	1646 Nov 24 19:30	8° <b>Ω</b> 37'03		opposition	1652 Jun 29 06:24	7° <b>る</b> 53'49	
opposition	1647 Jan 23 14:53	3° <b>Ω</b> 36'30	0°43'53	min. Earth dist.	1652 Jun 30 11:56	7° <b>る</b> 44'19	4.17388 AU
min. Earth dist.	1647 Jan 22 23:40	3° <b>Ω</b> 41'35	4.31560 AU	direct	1652 Aug 29 07:25	2° <b>る</b> 57'19	
	1647 Feb 22 22:54	30° <b>₹</b> 🥯		evening set	1653 Jan 01 13:51	21° <b>る</b> 43'15	
direct	1647 Mar 25 05:47	28° <b>©</b> 34'09		max. Earth dist.	1653 Jan 13 02:21	24° <b>る</b> 25'51	6.10311 AU
	1647 Apr 24 22:07	$0^{\circ}\Omega$					
	1647 Jul 22 22:21	15° <b>Ω</b>		conjunction	1653 Jan 14 07:59	24° <b>る</b> 43'20	-0°20'24
evening set	1647 Jul 30 02:35	16° <b>Ω</b> 32'54		minimum elong	1653 Jan 14 07:58	24° <b>る</b> 43'19	0°20'24
				morning rise	1653 Jan 27 03:05	27° <b>る</b> 44'12	
conjunction	1647 Aug 12 13:17	19° <b>Ω</b> 28'46	0°45'13	morning rise	1653 Feb 05 20:19	0°≈	
minimum elong	1647 Aug 12 13:17	19° <b>Ω</b> 28'45	0°45'13		1653 Apr 27 16:35	0 <b>~</b> 15° <b>≈</b>	
•	-			. 1	*		
max. Earth dist.	1647 Aug 12 22:08	19° <b>Ω</b> 33'36	6.37399 AU	retrograde	1653 Jun 05 00:19	17°≈14'52	
morning rise	1647 Aug 25 21:51	22° <b>Ω</b> 23'22			1653 Jul 13 15:14	15°R≈	
	1647 Oct 01 15:59	0° <b>m</b>		opposition	1653 Aug 04 12:41	12°≈18′21	
retrograde	1647 Dec 25 08:43	9° <b>™</b> 32'21		min. Earth dist.	1653 Aug 04 22:52	12°≈15′02	4.03902 AU
opposition	1648 Feb 23 12:35	4° Mg 35′33	1°22'08	direct	1653 Oct 03 01:37	7° <b>≈</b> 24'08	
min. Earth dist.	1648 Feb 23 15:31	4° Mp 34′35	4.41816 AU		1653 Dec 13 22:36	15° <b>≈</b>	
	1648 Apr 08 01:56	30° <b>₽</b> Ω		evening set	1654 Feb 05 08:10	26° <b>≈</b> 46'47	
direct	1648 Apr 25 08:17	29° <b>Ω</b> 32'29					
	1648 May 12 18:46	0° <b>m</b>		conjunction	1654 Feb 18 07:17	29° <b>≈</b> 54'02	-0°52'53
evening set	1648 Aug 30 03:45	17°M)09'11		minimum elong	1654 Feb 18 07:14	29° <b>≈</b> 54'00	0°52'53
S	Ü	ì		max. Earth dist.	1654 Feb 18 07:42	29° <b>≈</b> 54'17	5.98947 AU
conjunction	1648 Sep 12 06:56	19° <b>m</b> 59'05	1°04'06	man. Darun dige.	1654 Feb 18 17:11	0° <b>∀</b>	0.505.7110
minimum elong	1648 Sep 12 06:55	19° <b>m</b> 59'04	1°04'06	morning rise	1654 Mar 03 08:51	3° <b>)</b> €02'45	
Č	•			-			
max. Earth dist.	1648 Sep 11 13:04	19° <b>m</b> 49'25	6.44536 AU	retrograde	1654 Jul 13 03:31	23° <b>)</b> (29'18	102421
morning rise	1648 Sep 25 07:06	22° Tp 47'32		opposition	1654 Sep 11 04:34	18° <b>)</b> € 28'49	
	1648 Oct 30 07:59	0∘ <b>⊽</b>		min. Earth dist.	1654 Sep 10 16:15		3.95912 AU
retrograde	1649 Jan 23 10:31	9° <b>ჲ</b> 33'13		direct	1654 Nov 08 12:53	13° <b>¥</b> 35'14	
opposition	1649 Mar 24 22:58	4° <b>£</b> 39'30	1°37'03		1655 Feb 28 02:58	$0^{\circ}\Upsilon$	
min. Earth dist.	1649 Mar 25 19:15	4° <b>£</b> 32'58	4.45526 AU	evening set	1655 Mar 14 00:08	3° <b>Y</b> 18'18	
		200p m					
	1649 May 10 13:27	30°R, Mp					
direct	1649 May 10 13:27 1649 May 26 12:53	30°K, ily 29°Mp 36'57		conjunction	1655 Mar 27 06:53	6° <b>Ƴ</b> 30'46	-1°06'00
direct	•	=		conjunction minimum elong	1655 Mar 27 06:53 1655 Mar 27 06:53	6° <b>Υ</b> 30'46 6° <b>Υ</b> 30'46	-1°06'00 1°05'59
	1649 May 26 12:53 1649 Jun 11 15:52	29° m 36'57					
evening set	1649 May 26 12:53 1649 Jun 11 15:52 1649 Sep 30 01:34	29° № 36'57 0° <u>a</u> 17° <u>a</u> 07'46	<b>6.44464 A</b> U	minimum elong max. Earth dist.	1655 Mar 27 06:53 1655 Mar 28 16:53	6° <b>Υ</b> 30'46 6° <b>Υ</b> 51'20	1°05'59
	1649 May 26 12:53 1649 Jun 11 15:52	29°₥36'57 0° <u>०</u>	6.44464 AU	minimum elong	1655 Mar 27 06:53 1655 Mar 28 16:53 1655 Apr 09 16:37	6°Υ30'46 6°Υ51'20 9°Υ44'52	1°05'59
evening set	1649 May 26 12:53 1649 Jun 11 15:52 1649 Sep 30 01:34	29° № 36'57 0° Ω 17° Ω 07'46 19° Ω 32'57	6.44464 AU 1°05'20	minimum elong max. Earth dist.	1655 Mar 27 06:53 1655 Mar 28 16:53	6° <b>Υ</b> 30'46 6° <b>Υ</b> 51'20	1°05'59

	1655 Sep 04 22:34	30° <b>R</b> Ƴ		conjunction	1661 Oct 17 04:50	24° <b>£</b> 16′08	1°04'01
opposition	1655 Oct 18 19:53	25° <b>Υ</b> 21'01	1924'07	minimum elong	1661 Oct 17 04:51	24° <b>⊆</b> 16'09	1°04'01
min. Earth dist.	1655 Oct 17 14:07	$25^{\circ}$ <b>Y</b> 31'07	3.96682 AU	morning rise	1661 Oct 29 22:03	24 <b>≅</b> 10 09 27° <b>⊆</b> 02'18	1 04 01
direct	1655 Dec 15 16:09	23 <b>γ</b> 31 07 20° <b>γ</b> 26'02	3.90082 AU	morning rise	1661 Nov 12 17:49	0°M	
direct	1656 Mar 05 17:48	0° <b>8</b>		ratra ara da	1662 Feb 27 11:51	13°M56'59	
avanina aat	1656 Apr 19 13:52	10° <b>8</b> 02'05		retrograde opposition	1662 Apr 29 07:31	9°ML05'02	1°22'34
evening set	1000 Apr 19 13:52	10-00203		• •	•		
	165634 02 04 02	120 1 512 5	0052100	min. Earth dist.	1662 Apr 30 17:28	8°M54'13	4.40476 AU
conjunction	1656 May 03 04:03	13° <b>8</b> 15'35		direct	1662 Jun 30 23:43	4°M04'09	
minimum elong	1656 May 03 04:06	13° <b>8</b> 15'37			1662 Oct 02 19:30	15°M	
max. Earth dist.	1656 May 05 09:18	13° <b>8</b> 47'12	6.00307 AU	evening set	1662 Nov 04 00:26	21°M49'35	
	1656 May 10 12:06	15° <b>8</b>		max. Earth dist.	1662 Nov 14 13:48	24°M10'13	6.35568 AU
morning rise	1656 May 16 21:03	16° <b>8</b> 30'18					
	1656 Jul 19 08:30	$\Pi^{\circ}0$		conjunction	1662 Nov 16 16:51	24°M38'40	0°45'08
retrograde	1656 Sep 24 09:43	6° <b>Ⅱ</b> 33'03		minimum elong	1662 Nov 16 16:52	24°M38'41	0°45'07
min. Earth dist.	1656 Nov 21 11:52	1° <b>Ⅱ</b> 40′08	4.05841 AU	morning rise	1662 Nov 29 07:42	27°M27'09	
opposition	1656 Nov 22 23:40	1° <b>Ⅱ</b> 27'55	-0°57'13		1662 Dec 10 22:01	0° <b>√</b>	
	1656 Dec 03 21:49	30° <b>₹</b> 8		retrograde	1663 Mar 31 22:18	14° <b>₹</b> 58'52	
direct	1657 Jan 20 06:55	26° <b>8</b> 29'59		opposition	1663 May 31 19:34	10° <b>х</b> 06′45	0°44'21
	1657 Mar 08 10:44	$\Pi^{\circ}0$		min. Earth dist.	1663 Jun 02 08:02	9° <b>∡</b> 755'07	4.29511 AU
evening set	1657 May 26 15:27	15° <b>Ⅱ</b> 35'56		direct	1663 Aug 01 20:55	5° <b>₰</b> 08'04	
				evening set	1663 Dec 05 09:55	23° <b>∡</b> ¹21'49	
conjunction	1657 Jun 09 09:39	18° <b>Ⅱ</b> 45'38	-0°20'39	max. Earth dist.	1663 Dec 16 05:06	25° <b>₹</b> 50'07	6.22632 AU
minimum elong	1657 Jun 09 09:40	18° <b>Ⅱ</b> 45'39	0°20'40				
max. Earth dist.	1657 Jun 11 14:12	19° <b>Ⅱ</b> 15'53	6.12512 AU	conjunction	1663 Dec 18 02:06	26° <b>₹</b> 15'57	0°12'28
morning rise	1657 Jun 23 04:41	21° <b>II</b> 55'30		minimum elong	1663 Dec 18 02:06	26° <b>₹</b> 15'57	0°12'28
morning rise	1657 Jul 30 04:59	0°9		behind sun begin	1663 Dec 17 20:49	26° <b>⊀</b> 12'56	0 12 20
retrograde	1657 Oct 28 08:50	10°951'37		behind sun end	1663 Dec 18 07:23	26° × 12'59	
opposition	1657 Dec 26 23:30	5°948'08	0°01'58	morning rise	1663 Dec 30 17:46	29°×10'08	
min. Earth dist.	1657 Dec 25 19:46	5°957'32		morning risc	1664 Jan 03 09:17	29×1008 0°る	
		3°959'28	4.19/01 AU	desc. node	1664 Apr 26 07:33	17° <b>る</b> 34'49	
asc. node	1658 Jan 09 16:24	0°547'22				17 <b>3</b> 3449	
direct	1658 Feb 24 10:28			retrograde	1664 May 04 11:41		000015.5
evening set	1658 Jul 01 03:16	19° <b>©</b> 14'58		opposition	1664 Jul 04 07:05	12° <b>る</b> 47'17	
				min. Earth dist.	1664 Jul 05 09:24	12° <b>る</b> 38'49	4.15416 AU
conjunction	1658 Jul 14 19:25	22° <b>©</b> 17'29	0°17'37	direct	1664 Sep 03 02:34	7° <b>る</b> 51'12	
minimum elong	1658 Jul 14 19:24	22° <b>©</b> 17'29	0°17'36	evening set	1665 Jan 06 09:23	26° <b>ප්</b> 42'13	
max. Earth dist.	1658 Jul 16 04:30	22° <b>©</b> 35'55	6.26897 AU	max. Earth dist.	1665 Jan 18 02:26	29° <b>る</b> 28'08	6.08604 AU
morning rise	1658 Jul 28 10:34	25° <b>©</b> 19'14					
	1658 Aug 19 01:37	$0^{\circ}\Omega$		conjunction	1665 Jan 19 03:56	29° <b>る</b> 43'14	
retrograde	1658 Nov 29 02:27	13° <b>Ω</b> 09'30		minimum elong	1665 Jan 19 03:54	29° <b>る</b> 43'13	0°25'39
min. Earth dist.	1659 Jan 27 10:56	8° <b>Ω</b> 13'51	4.33347 AU		1665 Jan 20 08:15	0° <b>≈</b>	
opposition	1659 Jan 28 00:06	8° <b>Ω</b> 09'27	0°50'26	morning rise	1665 Jan 31 23:46	2° <b>≈</b> 45′09	
direct	1659 Mar 29 18:39	3° <b>Ω</b> 06'56			1665 Mar 29 19:26	15° <b>≈</b>	
	1659 Jul 05 23:06	15° <b>Ω</b>		retrograde	1665 Jun 10 08:26	22° <b>≈</b> 24'12	
evening set	1659 Aug 03 16:11	21° <b>Ω</b> 01'40		opposition	1665 Aug 09 19:07	17° <b>≈</b> 27'07	-1°04'19
				min. Earth dist.	1665 Aug 10 02:17	17° <b>≈</b> 24'46	4.02624 AU
conjunction	1659 Aug 17 01:54	23° <b>Ω</b> 56'33	0°48'49		1665 Aug 29 10:21	15°R≈	
minimum elong	1659 Aug 17 01:52	23° <b>Ω</b> 56'32	0°48'49	direct	1665 Oct 08 04:49	12°≈33'04	
max. Earth dist.	1659 Aug 17 06:51	23° <b>Ω</b> 59'15	6.38770 AU		1665 Nov 16 05:43	15° <b>≈</b>	
morning rise	1659 Aug 30 09:14	26° <b>Ω</b> 50'07			1666 Feb 02 02:37	0° <b>∀</b>	
	1659 Sep 14 04:58	0°m		evening set	1666 Feb 10 09:38	1° <b>¥</b> 58'36	
retrograde	1659 Dec 29 14:25	13° m 54'22		8			
opposition	1660 Feb 27 19:03	8° m 58'05	1°25'43	conjunction	1666 Feb 23 09:44	5° <b>)</b> €06'35	-0°56'08
min. Earth dist.	1660 Feb 28 00:59	8° m 56'09	4.42695 AU	minimum elong	1666 Feb 23 09:42	5° <b>)</b> €06'34	
direct	1660 Apr 29 18:16	3° m 55'04	20,0110	max. Earth dist.	1666 Feb 23 16:05	5° <b>₩</b> 10'25	
evening set	1660 Sep 03 12:52	21° <b>m</b> <sub>2</sub> 39'04		morning rise	1666 Mar 08 12:15	8° <b>H</b> 16'02	3.70220710
evening set	1000 Sep 03 12.32	21 11/25011		retrograde	1666 Jul 18 11:58	28° <b>)</b> 45'53	
conjunction	1660 San 16 14:58	24°m 10'33	1°05'21	•		23° <b>)</b> 44'51	1°36'41
conjunction	1660 Sep 16 14:58	24° Mp 19'33		opposition	1666 Sep 16 11:58		
minimum elong	1660 Sep 16 14:57	24° Mp 19'33	1°05'20	min. Earth dist.	1666 Sep 15 20:44	23° <b>¥</b> 49'56	3.93848 AU
max. Earth dist.	1660 Sep 15 16:04	24° Mp 07'11	6.44842 AU	direct	1666 Nov 13 17:20	18° <b>升</b> 51'13	
morning rise	1660 Sep 29 14:16	27° m, 07'32			1667 Feb 10 01:05	0° <b>Υ</b>	
	1660 Oct 13 03:00	0° <b>⊽</b>		evening set	1667 Mar 19 05:12	8° <b>Ƴ</b> 33'23	
retrograde	1661 Jan 27 17:14	13° <b>£</b> 52'43	1005105			11000	1005::-
opposition	1661 Mar 29 05:58	8° <b>£</b> 59'17	1°37'03	conjunction	1667 Apr 01 12:48	11° <b>Υ</b> 46'00	
min. Earth dist.	1661 Mar 30 04:50	8° <b>£</b> 51'55	4.45271 AU	minimum elong	1667 Apr 01 12:48		
direct	1661 May 30 21:22	3° <b>£</b> 56'49		max. Earth dist.	1667 Apr 03 01:01	12° <b>Y</b> 07'52	5.95604 AU
evening set	1661 Oct 04 08:50	21° <b>≏</b> 28'48		morning rise	1667 Apr 14 23:43	15° <b>Y</b> 00'19	
max. Earth dist.	1661 Oct 15 11:21	23° <b>≏</b> 53'32	6.43666 AU		1667 Jun 24 17:10	$9^{\circ}$ 8	

retrograde	1667 Aug 25 05:21	5° <b>8</b> 36'28		direct	1673 Jun 04 06:02	8° <b>≙</b> 16'57	
opposition	1667 Oct 23 22:31	0° <b>8</b> 32'13	-1°30'49	evening set	1673 Oct 08 16:11	25° <b>ჲ</b> 50'22	
min. Earth dist.	1667 Oct 22 14:45	0° <b>8</b> 43'00	3.97822 AU	max. Earth dist.	1673 Oct 19 15:08	28° <b>£</b> 13'35	6.42809 AU
	1667 Oct 27 21:37	30° <b>₹</b> Υ					
direct	1667 Dec 20 19:27	25° <b>Ƴ</b> 36'49		conjunction	1673 Oct 21 11:26	28° <b>≏</b> 37'47	1°02'19
	1668 Feb 11 09:14	0°8		minimum elong	1673 Oct 21 11:27	28° <b>≏</b> 37'48	1°02'19
evening set	1668 Apr 24 17:53	15° <b>8</b> 08'42			1673 Oct 27 17:54	o° <b>m</b>	
-	1668 Apr 24 03:05	15° <b>8</b>		morning rise	1673 Nov 03 04:17	1° <b>M</b> 24'07	
	•			•	1674 Jan 15 00:10	15° <b>™</b>	
conjunction	1668 May 08 08:59	18° <b>8</b> 21'50	-0°49'32	retrograde	1674 Mar 03 23:08	18° <b>M</b> 22'40	
minimum elong	1668 May 08 09:01	18° <b>8</b> 21'52	0°49'31		1674 Apr 21 21:58	15°RM	
max. Earth dist.	1668 May 10 15:19	18° <b>8</b> 53'58	6.01913 AU	opposition	1674 May 03 18:58	13°M30'46	1°18'27
morning rise	1668 May 22 02:24	21° <b>8</b> 36'00		min. Earth dist.	1674 May 05 05:44	13° <b>M</b> 19'41	4.39238 AU
	1668 Jun 28 13:19	$\Pi^{\circ}0$		direct	1674 Jul 05 10:15	8°M30'08	
retrograde	1668 Sep 29 05:52	11° <b>Ⅲ</b> 29'55			1674 Sep 13 03:09	15° <b>™</b>	
min. Earth dist.	1668 Nov 26 08:45	6° <b>Ⅱ</b> 36'32	4.07714 AU	evening set	1674 Nov 08 09:02	26°M₁8'42	
opposition	1668 Nov 27 18:56	6° <b>Ⅱ</b> 24'53	-0°50'09	max. Earth dist.	1674 Nov 18 23:44	28°M40'34	6.34044 AU
direct	1669 Jan 25 06:05	1° <b>Ⅱ</b> 26'32					
evening set	1669 May 31 14:51	20° <b>Ⅲ</b> 27′03		conjunction	1674 Nov 21 01:22	29°M08'20	0°41'10
-	•			minimum elong	1674 Nov 21 01:24	29°M08'21	0°41'11
conjunction	1669 Jun 14 09:07	23° <b>Ⅱ</b> 35'55	-0°15'25	•	1674 Nov 24 21:44	0° <b>∡</b> ¹	
minimum elong	1669 Jun 14 09:08	23° <b>Ⅲ</b> 35'55	0°15'24	morning rise	1674 Dec 03 15:59	1° <b>∡</b> 57′23	
behind sun begin	1669 Jun 14 07:20	23° <b>Ⅱ</b> 34'53		retrograde	1675 Apr 05 14:19	19° <b>∡</b> ³35'48	
behind sun end	1669 Jun 14 10:56	23° <b>Ⅱ</b> 36'57		opposition	1675 Jun 05 12:37	14° <b>∡</b> ⁴43'31	0°37'22
max. Earth dist.	1669 Jun 16 11:42	24° <b>Ⅱ</b> 04'53	6.14489 AU	min. Earth dist.	1675 Jun 06 23:49	14° <b>∡</b> ³32'18	4.27782 AU
morning rise	1669 Jun 28 04:00	26° <b>Ⅱ</b> 44'48		direct	1675 Aug 06 10:29	9° <b>∡</b> ¹45'13	
S	1669 Jul 12 16:17	0ം <b>ഉ</b>		evening set	1675 Dec 09 22:23	28° <b>∡</b> ¹03'17	
retrograde	1669 Nov 01 19:14	15° <b>©</b> 31'29		C	1675 Dec 18 09:40	8°0	
asc. node	1669 Nov 20 13:55	14°956'33		max. Earth dist.	1675 Dec 20 18:51	0° <b>る</b> 32'58	6.20817 AU
min. Earth dist.	1669 Dec 30 08:55	10°937'27	4.21606 AU				
opposition	1669 Dec 31 11:32	10°928'27	0°05'49	conjunction	1675 Dec 22 14:34	0° <b>ಕ</b> 58'11	0°07'12
direct	1670 Mar 01 01:34	5° <b>©</b> 27'25		minimum elong	1675 Dec 22 14:34	0° <b>る</b> 58'11	0°07'11
evening set	1670 Jul 05 20:43	23°950'31		behind sun begin	1675 Dec 22 07:13	0° <b>る</b> 53'58	
C				behind sun end	1675 Dec 22 21:55	1° <b>る</b> 02'24	
conjunction	1670 Jul 19 12:10	26°952'02	0°22'32	morning rise	1676 Jan 04 06:44	3° <b>ප්</b> 53'19	
minimum elong	1670 Jul 19 12:08	26°952'01	0°22'32	desc. node	1676 Mar 05 22:45	16° <b>る</b> 37'03	
max. Earth dist.	1670 Jul 20 16:29	27° <b>©</b> 07'46	6.28592 AU	retrograde	1676 May 09 12:31	22° <b>る</b> 33'02	
morning rise	1670 Aug 02 02:26	29° <b>©</b> 52'42		opposition	1676 Jul 09 06:47	17° <b>る</b> 38'45	-0°18'00
5	1670 Aug 02 15:42	$0^{\circ}\Omega$		min. Earth dist.	1676 Jul 10 07:14		4.13620 AU
	1670 Oct 23 05:12	15° <b>Ω</b>		direct	1676 Sep 07 22:43	12° <b>る</b> 42'56	
retrograde	1670 Dec 03 10:15	17° <b>Ω</b> 36'06			1677 Jan 04 03:10	0° <b>≈</b>	
C	1671 Jan 13 13:04	15°R <b>Ω</b>		evening set	1677 Jan 11 03:25	1° <b>≈</b> 38'36	
opposition	1671 Feb 01 07:35	12° <b>Ω</b> 36'40	0°56'30	<i>8</i>			
min. Earth dist.	1671 Jan 31 21:54	12° <b>Ω</b> 39'53	4.34718 AU	conjunction	1677 Jan 23 22:39	4°≈40'34	-0°30'43
direct	1671 Apr 03 07:01	7° <b>Ω</b> 34'02		minimum elong	1677 Jan 23 22:37	4°≈40'33	0°30'42
	1671 Jun 17 01:11	15° <b>Ω</b>		max. Earth dist.	1677 Jan 23 01:33	4°≈28'02	6.06986 AU
evening set	1671 Aug 08 04:20	25° <b>Ω</b> 26'13		morning rise	1677 Feb 05 19:08	7° <b>≈</b> 43'29	
8				. 8	1677 Mar 09 16:58	15° <b>≈</b>	
conjunction	1671 Aug 21 13:08	28° <b>Ω</b> 20′20	0°52'04	retrograde	1677 Jun 15 14:55	27° <b>≈</b> 30'40	
minimum elong	1671 Aug 21 13:05	28° <b>Ω</b> 20'19	0°52'04	opposition	1677 Aug 14 23:46	22° <b>≈</b> 33'05	-1°10'38
max. Earth dist.	1671 Aug 21 14:09	28° <b>Ω</b> 20'53	6.39714 AU	min. Earth dist.	1677 Aug 15 04:09	22° <b>≈</b> 31'39	4.01351 AU
	1671 Aug 29 04:26	0° m)		direct	1677 Oct 13 04:27	17° <b>≈</b> 39'13	
morning rise	1671 Sep 03 19:21	1° mp 13'05		4.1.000	1678 Jan 15 16:52	0° <b>∀</b>	
retrograde	1672 Jan 02 18:40	18° <b>m</b> ) 14'05		evening set	1678 Feb 15 10:17	7° <b>₩</b> 08'05	
opposition	1672 Mar 03 00:47	13° M) 18'16	1°28'45	evening sec	10,0100 10 10.17	, ,(00 02	
min. Earth dist.	1672 Mar 03 08:37	13° <b>m</b> ) 15'42	4.43199 AU	conjunction	1678 Feb 28 11:07	10° <b>)</b> 16'49	-0°58'57
direct	1672 May 04 01:55	8° mp 15'19		minimum elong	1678 Feb 28 11:05	10° <b>)</b> €16'48	
evening set	1672 Sep 07 21:28	25° m 50'03		max. Earth dist.	1678 Feb 28 20:18	10° <b>)</b> 22'22	5.97386 AU
	= 50p 0, 21.20			morning rise	1678 Mar 13 14:52	13° <b>)</b> €27'09	
conjunction	1672 Sep 20 22:40	28° <b>m</b> 39'03	1°06'12		1678 Jun 02 05:43	0° <b>Υ</b>	
minimum elong	1672 Sep 20 22:39	28° m/39'02	1°06'12	retrograde	1678 Jul 23 17:45	4° <b>Υ</b> ′00'45	
max. Earth dist.	1672 Sep 20 22:35	28° m) 25'28	6.44875 AU		1678 Sep 14 02:56	30°R <b>)</b> €	
max. Latur dist.	1672 Sep 19 21:33 1672 Sep 27 04:16	0° <b>⊡</b>	0.770/J AU	opposition	1678 Sep 14 02:30 1678 Sep 21 17:37	28° <b>¥</b> 59'09	-1°38'17
morning rise	1672 Oct 03 20:57	0 <b>==</b> 1° <b>£</b> 26'38		min. Earth dist.	1678 Sep 20 23:16	28 <b>X</b> 39 09 29° <b>X</b> 05'18	3.95564 AU
retrograde	1672 Oct 03 20.57 1673 Jan 31 23:52	1 <b>2</b> 20 38 18° <b>2</b> 12'15		direct	1678 Nov 18 20:23	29 <b>H</b> 05 18 24° <b>H</b> 05'20	3.73304 AU
•	1012 Jan 21 43.34	10 == 14 13		uncet	10/01/01 10 20.23	47 NUJ 40	
			1036120			$0^{\circ}$	
opposition min. Earth dist.	1673 Apr 02 13:22 1673 Apr 03 14:10	13° <b>≏</b> 19'10	1°36'30 4.44850 AU	evening set	1679 Jan 19 12:10 1679 Mar 24 09:53	0° <b>Υ</b> 13° <b>Υ</b> 47'54	

conjunction	1679 Apr 06 18:47	17° <b>Ƴ</b> 00'56	-1°04'55	retrograde	1685 Feb 05 05:12	22° <b>≏</b> 31'55	
minimum elong	1679 Apr 06 18:48	17° <b>Ƴ</b> 00'57	1°04'56	opposition	1685 Apr 06 21:10	17° <b>≏</b> 39'02	1°35'27
max. Earth dist.	1679 Apr 08 11:16	17° <b>Y</b> 25′20	5.95897 AU	min. Earth dist.	1685 Apr 07 22:48	17° <b>≙</b> 30'49	4.44968 AU
morning rise	1679 Apr 20 06:39	20° <b>Y</b> 15′33		direct	1685 Jun 08 14:38	12° <b>♀</b> 37'00	
	1679 Jun 02 06:32	0°8		evening set	1685 Oct 12 22:44	0° <b>M</b> 09'47	
retrograde	1679 Aug 30 09:59	10° <b>8</b> 48'52		<i>3 4 1 1 1 1 1 1 1 1 1 1</i>	1685 Oct 12 04:39	0° <b>M</b> ,	
min. Earth dist.	1679 Oct 27 17:13	5° <b>8</b> 55'09	3.98646 AU	max. Earth dist.	1685 Oct 23 21:01	2°M32'46	6.42545 AU
	1679 Oct 27 17:13 1679 Oct 29 01:03	5° <b>8</b> 44'19		max. Earth dist.	1003 Oct 23 21.01	2 11632 40	0.42545 AU
opposition			-1 20 32		1605.0 + 25 17.20	20 <b>m</b> 57102	1000120
direct	1679 Dec 25 23:23	0° <b>8</b> 48'32		conjunction	1685 Oct 25 17:20	2°M57'02	1°00'20
	1680 Apr 06 22:10	15° <b>8</b>		minimum elong	1685 Oct 25 17:22	2°M57'02	1°00'20
evening set	1680 Apr 29 22:42	20° <b>8</b> 17'35		morning rise	1685 Nov 07 09:27	5°M43'13	
					1685 Dec 22 22:33	15° <b>M</b> ₊	
conjunction	1680 May 13 14:35	23° <b>8</b> 30'30	-0°45'31	retrograde	1686 Mar 08 07:39	22°M43'42	
minimum elong	1680 May 13 14:37	23° <b>8</b> 30'31	0°45'31	opposition	1686 May 08 05:01	17° <b>M</b> 51'51	1°13'58
max. Earth dist.	1680 May 15 21:47	24° <b>8</b> 03'00	6.03183 AU	min. Earth dist.	1686 May 09 16:36	17°M40'32	4.38583 AU
morning rise	1680 May 27 08:41	26° <b>8</b> 44'20			1686 Jun 01 04:31	15°RM₀	
	1680 Jun 10 11:53	0°II		direct	1686 Jul 09 20:16	12°M51'32	
retrograde	1680 Oct 04 01:26	16° <b>Ⅱ</b> 30'29		direct	1686 Aug 17 07:45	15°M	
min. Earth dist.	1680 Dec 01 04:39	10 <b>H</b> 3029	4.09286 AU		1686 Nov 09 12:51	13 llG 0° <b>x</b> 7	
				. ,			
opposition	1680 Dec 02 15:10	11° <b>Ⅱ</b> 25'34	-0°42′41	evening set	1686 Nov 12 15:10	0° <b>∡</b> 741'11	
direct	1681 Jan 30 03:54	6° <b>Ⅱ</b> 26'49		max. Earth dist.	1686 Nov 23 03:57	3° <b>≯</b> 02'24	6.33038 AU
evening set	1681 Jun 05 16:16	25° <b>Ⅱ</b> 23'01					
				conjunction	1686 Nov 25 07:04	3° <b>∡</b> ³31′03	0°37'08
conjunction	1681 Jun 19 10:27	28° <b>Ⅲ</b> 31′05	-0°09'59	minimum elong	1686 Nov 25 07:06	3° <b>҂</b> ³31′04	0°37'08
minimum elong	1681 Jun 19 10:27	28° <b>Ⅲ</b> 31′05	0°09'59	morning rise	1686 Dec 07 21:45	6° <b>х</b> 20′30	
behind sun begin	1681 Jun 19 03:46	28° <b>Ⅱ</b> 27'17		retrograde	1687 Apr 10 04:09	24° <b>₹</b> 04'14	
behind sun end	1681 Jun 19 17:08	28° <b>Ⅱ</b> 34'53		opposition	1687 Jun 10 02:50	19° <b>√</b> 11'44	0°30'23
max. Earth dist.	1681 Jun 21 09:40	28° <b>Ⅱ</b> 58'01	6.16235 AU	min. Earth dist.	1687 Jun 11 13:32	19° <b>х</b> 00'40	4.26455 AU
max. Earth dist.	1681 Jun 25 22:28	0°95	0.10233 110	direct	1687 Aug 10 22:12	14° <b>×</b> 13'41	1.20 133 710
mamina riaa	1681 Jul 03 05:07	1° <b>9</b> 39'03		direct	1687 Dec 02 22:23	0°중	
morning rise				. ,			
asc. node	1681 Sep 30 00:44	18°505'49		evening set	1687 Dec 14 07:06	2° <b>る</b> 34'51	6 1000 T 1 TY
retrograde	1681 Nov 06 09:33	20° <b>©</b> 17'03		max. Earth dist.	1687 Dec 25 06:19	5° <b>る</b> 06'35	6.19287 AU
min. Earth dist.	1682 Jan 04 01:46	15° <b>©</b> 22'31	4.23356 AU				
opposition	1682 Jan 05 01:41	15°©14'26	0°13'42	conjunction	1687 Dec 26 23:34	5° <b>る</b> 30'27	0°02'04
direct	1682 Mar 05 21:11	10° <b>©</b> 13'06		minimum elong	1687 Dec 26 23:35	5° <b>る</b> 30'27	0°02'03
evening set	1682 Jul 10 16:31	28° <b>©</b> 32'02		behind sun begin	1687 Dec 26 15:36	5° <b>ರ</b> 25'51	
	1682 Jul 17 08:02	$0^{\circ}\Omega$		behind sun end	1687 Dec 27 07:34	5°る35'03	
				morning rise	1688 Jan 08 15:55	8° <b>පි</b> 26'20	
conjunction	1682 Jul 24 07:22	1° <b>Ω</b> 32'35	0°27'26	desc. node	1688 Jan 16 21:16	10° <b>ප</b> 19'11	
minimum elong	1682 Jul 24 07:20	1° <b>£</b> 32'34		retrograde	1688 May 14 08:46	27° <b>る</b> 13'56	
max. Earth dist.	1682 Jul 25 09:35	1° <b>Ω</b> 47'06	6.30238 AU	opposition	1688 Jul 14 02:12	22° <b>る</b> 19'22	0°25'41
		4° <b>Ω</b> 32'08	0.30230 AC	min. Earth dist.	1688 Jul 15 01:20		4.11991 AU
morning rise	1682 Aug 06 20:34						4.11991 AU
	1682 Sep 27 08:39	15° <b>Ω</b>		direct	1688 Sep 12 13:41	17° <b>ට</b> 23'51	
retrograde	1682 Dec 07 18:03	22° <b>Ω</b> 08'35			1688 Dec 18 19:37	0° <b>≈</b>	
opposition	1683 Feb 05 17:21	17° <b>Ω</b> 09'41	1°02'24	evening set	1689 Jan 15 17:52	6° <b>≈</b> 24'02	
min. Earth dist.	1683 Feb 05 08:49	17° <b>Ω</b> 12'31	4.36171 AU				
	1683 Feb 22 14:48	15°R <b>Ω</b>		conjunction	1689 Jan 28 13:31	9° <b>≈</b> 26'54	-0°35'21
direct	1683 Apr 07 19:53	12° <b>Ω</b> 07'01		minimum elong	1689 Jan 28 13:29	9° <b>≈</b> 26'53	
	1683 May 22 11:52	15° <b>Ω</b>		max. Earth dist.	1689 Jan 27 17:41	9° <b>≈</b> 15′06	6.05393 AU
evening set	1683 Aug 12 18:29	29° <b>Ω</b> 55'56		morning rise	1689 Feb 10 10:57	12° <b>≈</b> 30'54	
	1683 Aug 13 02:02	0° <b>m</b> )			1689 Feb 21 00:44	15° <b>≈</b>	
	-				1689 May 11 18:37	0° <b>∀</b>	
conjunction	1683 Aug 26 02:04	2° m/49'07	0°55'06	retrograde	1689 Jun 20 15:42	2° <b>)</b> €26'27	
minimum elong	1683 Aug 26 02:02	2° m/49'06	0°55'05	1011 08111110	1689 Jul 30 19:21	30°R≈	
max. Earth dist.	1683 Aug 25 23:12	2° mp 47'33	6.40898 AU	opposition	1689 Aug 20 00:01	27°≈28'21	1016'14
	-	=	0.40696 AU		-		
morning rise	1683 Sep 08 07:11	5° Mp 40'56		min. Earth dist.	1689 Aug 20 01:28	27°≈27'53	3.99946 AU
retrograde	1684 Jan 07 02:01	22° m/ 37'44	1021/22	direct	1689 Oct 17 24:00	22°≈34'34	
opposition	1684 Mar 07 08:44	17° m/42'23	1°31'23	_	1689 Dec 27 11:03	0° <b>∀</b>	
min. Earth dist.	1684 Mar 07 19:22	17° <b>m</b> 38'56	4.44069 AU	evening set	1690 Feb 20 07:22	12° <b>∺</b> 07'51	
direct	1684 May 08 14:15	12° <b>m</b> 39'31					
	1684 Sep 11 08:15	0∘ <b>亚</b>		conjunction	1690 Mar 05 09:25	15° <b>∺</b> 17'35	-1°01'13
evening set	1684 Sep 12 06:51	0° <b>£</b> 12'07		minimum elong	1690 Mar 05 09:23	15° <b>)</b> 17′34	1°01'13
max. Earth dist.	1684 Sep 24 03:27	2° <b>£</b> 45'35	6.45373 AU	max. Earth dist.	1690 Mar 05 23:22	15° <b>)</b> 26′01	5.96312 AU
	•			morning rise	1690 Mar 18 14:09	18° <b>)</b> 28′54	
conjunction	1684 Sep 25 07:04	3° <b>ჲ</b> 00'31	1°06'45	5	1690 May 09 01:11	0°Υ	
minimum elong	1684 Sep 25 07:04	3° <b>⊆</b> 00'31	1°06'45	retrograde	1690 Jul 28 23:41	9° <b>Ƴ</b> 07'30	
morning rise	1684 Oct 08 04:21	5° <b>£</b> 47'31	1 00 73	opposition	1690 Sep 26 20:16	4° <b>Υ</b> 05'30	_1°30'07
morning 1150	1007 001 00 04.41	J ==+/31		оррознин	1070 Sep 20 20.10	- 1 US 3U	1 3/01

min. Earth dist.	1690 Sep 26 00:48		3.94950 AU	evening set	1696 Sep 16 15:41	4° <b>≙</b> 34'12	
J:4	1690 Nov 02 02:33	30° <b>₹</b> ₩ 29° <b>₩</b> 11'34		max. Earth dist.	1696 Sep 28 07:56	7° <b>£</b> 05'22	6.45588 AU
direct	1690 Nov 23 21:26 1690 Dec 15 14:07	29° <b>π</b> 11'34 0° <b>Υ</b>		conjunction	1696 Sep 29 14:50	7° <b>£</b> 22'05	1°06'55
evening set	1691 Mar 29 12:37	18° <b>Υ</b> 56'11		minimum elong	1696 Sep 29 14:50	7° <b>£</b> 22'05	1°06'56
evening set	10)1 Widi 2) 12.37	10   3011		morning rise	1696 Oct 12 11:15	10° <b>⊆</b> 08'40	1 00 30
conjunction	1691 Apr 11 22:38	22° <b>Y</b> ′09'50	-1°03'39	retrograde	1697 Feb 09 13:09	26° <b>£</b> 53'01	
minimum elong	1691 Apr 11 22:40	22° <b>Y</b> ′09'51	1°03'38	opposition	1697 Apr 11 05:35	22° <b>ჲ</b> 00′23	1°33'54
max. Earth dist.	1691 Apr 13 17:41	22° <b>Y</b> 35'45	5.95796 AU	min. Earth dist.	1697 Apr 12 09:56	21° <b>≏</b> 51'18	4.44648 AU
morning rise	1691 Apr 25 11:48	25° <b>Y</b> 25′04		direct	1697 Jun 13 01:04	16° <b>≏</b> 58'29	
	1691 May 15 00:25	$0^{\circ}$ 8			1697 Sep 25 21:30	$0^{\circ}$ M	
	1691 Aug 11 07:19	15° <b>8</b>		evening set	1697 Oct 17 05:41	4°M32'06	
retrograde	1691 Sep 04 11:26	15° <b>8</b> 57'03		max. Earth dist.	1697 Oct 28 00:44	6°M53'40	6.41689 AU
t materia	1691 Sep 28 10:58	15°R <b>8</b>	2 00001 177		1607.0 . 20 22 44	50W 10105	0055150
min. Earth dist.	1691 Nov 01 15:53	10° <b>8</b> 52'21	3.99091 AU	conjunction minimum elong	1697 Oct 29 23:44	7°M19'27	0°57'59 0°57'59
opposition direct	1691 Nov 03 01:38 1691 Dec 30 22:50	5° <b>8</b> 56'14	-1-22/21	morning rise	1697 Oct 29 23:45 1697 Nov 11 15:28	7° <b>IL</b> 19'27 10° <b>IL</b> 05'49	0-57-59
direct	1692 Mar 18 22:39	15° <b>B</b>		morning rise	1697 Nov 11 15:28 1697 Dec 04 15:20	10 11603 49 15°M	
evening set	1692 May 05 03:09	25° <b>8</b> 24'15		retrograde	1698 Mar 12 18:43	27°M10'27	
evening sec	10)2 May 05 05.09	25 02 115		opposition	1698 May 12 17:12	22°M18'33	1°08'59
conjunction	1692 May 18 19:45	28° <b>8</b> 37'04	-0°41'12	min. Earth dist.	1698 May 14 04:54	22°ML07'11	4.37238 AU
minimum elong	1692 May 18 19:47	28° <b>8</b> 37'06	0°41'12	direct	1698 Jul 14 06:01	17° <b>M</b> 18'27	
max. Earth dist.	1692 May 21 02:33	29° <b>8</b> 09'17	6.04135 AU		1698 Oct 24 02:09	0° <b>∡</b> ¹	
	1692 May 24 16:58	$\Pi^{\circ}0$		evening set	1698 Nov 16 23:57	5° <b>∡</b> 11'33	
morning rise	1692 Jun 01 14:28	1° <b>Ⅱ</b> 50'44		max. Earth dist.	1698 Nov 27 14:04	7° <b>∡</b> ³34′03	6.31311 AU
retrograde	1692 Oct 08 21:44	21° <b>Ⅱ</b> 30′19					
min. Earth dist.	1692 Dec 06 01:30	16° <b>Ⅱ</b> 36'58	4.10618 AU	conjunction	1698 Nov 29 15:50	8° <b>₹</b> 02'04	0°32'43
opposition	1692 Dec 07 10:58	16° <b>Ⅱ</b> 25'33	-0°34'59	minimum elong	1698 Nov 29 15:52	8° <b>≯</b> 02'05	0°32'43
direct	1693 Feb 04 03:41	11° <b>Ⅱ</b> 26′23		morning rise	1698 Dec 12 06:25	10° <b>≯</b> 52'13	
	1693 Jun 09 07:49	0°95		retrograde	1699 Apr 14 23:32	28° 🖈 43'47	0000155
evening set	1693 Jun 10 17:36	0°\$19'04		opposition	1699 Jun 14 21:24	23° 🖈 51'07	0°22'55
agniumation	1693 Jun 24 11:53	3° <b>5</b> 26'26	0004121	min. Earth dist. direct	1699 Jun 16 07:54 1699 Aug 15 13:16	23° 🖈 40'06 18° 🖈 53'23	4.24441 AU
conjunction minimum elong	1693 Jun 24 11:53	3°926'26		uncet	1699 Nov 15 16:36	10 × 33 23	
behind sun begin	1693 Jun 24 03:41	3°921'48	0 0431	desc. node	1699 Nov 26 08:38	0 S 2°る16'06	
behind sun end	1693 Jun 24 20:05	3°931'04		evening set	1699 Dec 18 21:01	7° <b>る</b> 19'59	
max. Earth dist.	1693 Jun 26 11:06	3°953'16	6.17849 AU	max. Earth dist.	1699 Dec 29 21:05	9° <b>ප</b> 52'59	6.17152 AU
morning rise	1693 Jul 08 06:03	6° <b>©</b> 33'29					
asc. node	1693 Aug 09 09:18	13°532'22		conjunction	1699 Dec 31 13:40	10° <b>ප</b> 16'34	-0°03'28
retrograde	1693 Nov 10 23:04	25° <b>©</b> 03'04		minimum elong	1699 Dec 31 13:40	10° <b>る</b> 16'34	0°03'27
opposition	1694 Jan 09 15:54	20°900'54	0°21'27	behind sun begin	1699 Dec 31 05:43	10° <b>る</b> 11'59	
min. Earth dist.	1694 Jan 08 16:42	20° <b>©</b> 08'42	4.25085 AU	behind sun end	1699 Dec 31 21:36	10° <b>る</b> 21'10	
direct	1694 Mar 10 15:02	14° <b>9</b> 59'18		morning rise	1700 Jan 13 06:44	13° <b>る</b> 13'37	
	1694 Jun 30 14:12	$0$ $^{\circ}\Omega$			1700 Apr 12 12:46	0° <b>≈</b>	
evening set	1694 Jul 15 12:11	3° <b>Ω</b> 13'51		retrograde	1700 May 20 11:45	2°≈11'25	
	1604 7 1 20 01 50	60 <b>0</b> 1 211 7	0022100	*,*	1700 Jun 27 18:18	30°Rる	0022120
conjunction	1694 Jul 29 01:59 1694 Jul 29 01:57	6° <b>Ω</b> 13'17 6° <b>Ω</b> 13'16		opposition min. Earth dist.	1700 Jul 20 04:15 1700 Jul 21 00:18	27°る16'22	-0°33'39 4.09901 AU
minimum elong max. Earth dist.	1694 Jul 29 23:46	6° <b>Ω</b> 25'18	6.31919 AU	direct	1700 Jul 21 00:18 1700 Sep 18 09:52	27 80932 22° <b>8</b> 21'07	4.09901 AU
morning rise	1694 Aug 11 14:18	9° <b>Ω</b> 11'41	0.51717 AC	uncet	1700 Sep 18 05:32 1700 Nov 30 05:37	0°≈	
morning rise	1694 Sep 07 21:44	15° <b>Ω</b>		evening set	1700 Itov 30 05:57	11°≈27'16	
retrograde	1694 Dec 12 03:16	26° <b>Ω</b> 41'04		ovening sec	17010411 21 10.02	11 10 27 10	
opposition	1695 Feb 10 03:06	21° <b>Ω</b> 42'37	1°07'54	conjunction	1701 Feb 03 11:35	14° <b>≈</b> 31'18	-0°40'02
min. Earth dist.	1695 Feb 09 21:35	21° <b>Ω</b> 44'26	4.37660 AU	minimum elong	1701 Feb 03 11:32	14° <b>≈</b> 31'16	0°40'02
direct	1695 Apr 12 11:04	16° <b>Ω</b> 39'45		max. Earth dist.	1701 Feb 02 21:14	14° <b>≈</b> 22'43	6.03552 AU
	1695 Jul 27 09:10	0° <b>m</b>			1701 Feb 05 11:33	15° <b>≈</b>	
evening set	1695 Aug 17 07:49	4° Mp 25′06		morning rise	1701 Feb 16 09:47	17° <b>≈</b> 36′29	
					1701 Apr 14 05:55	0° <b>∀</b>	
conjunction	1695 Aug 30 14:26	7° <b>m</b> ) 17'23	0°57'48	retrograde	1701 Jun 27 02:21	7° <b>∺</b> 41'01	
minimum elong	1695 Aug 30 14:24	7° Mp 17'22	0°57'48	opposition	1701 Aug 26 07:55	2° <b>)</b> (42'24	
max. Earth dist.	1695 Aug 30 09:22	7° Mp 14'38	6.42046 AU	min. Earth dist.	1701 Aug 26 07:03		3.98560 AU
morning rise	1695 Sep 12 18:11	10° Mp 08'13		3:4	1701 Sep 17 01:59	30°R≈	
retrograde	1696 Jan 11 06:42	27° Mp 01'01	1022120	direct	1701 Oct 24 04:04	27° <b>≈</b> 48'46 0° <b>)</b> €	
opposition min. Earth dist.	1696 Mar 11 16:03 1696 Mar 12 04:04	22° Mp 06'02 22° Mp 02'08	1°33'30 4.44794 AU	evening set	1701 Nov 29 17:18 1702 Feb 26 12:10	0° <del>X</del> 17° <b>X</b> 25'56	
direct	1696 May 12 23:26	17° Mp 03'11	7.77/ <i>7</i> 7 AU	evening set	1/02100 20 12.10	11 1 23 30	
direct	1696 Aug 25 21:01	0∘ <b>⊽</b>		conjunction	1702 Mar 11 15:13	20° <b>∺</b> 36'31	-1°03'10
				<i>j</i>	10110	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

minimum elong	1702 Mar 11 15:12	20° <b>)</b> 36'30	1°03'09	morning rise	1707 Sep 18 01:47	14° <b>m</b> 26'44	
max. Earth dist.	1702 Mar 12 09:13	20° <b>)</b> 47'25	5.95514 AU	morning rise	1707 Dec 18 18:20	0° <b>⊡</b>	
morning rise	1702 Mar 24 21:18	23° <b>)</b> (48'46	3.93311110	retrograde	1708 Jan 16 11:41	° <b>-</b> 1° <b>-</b> 16'31	
morning rise	1702 Apr 20 06:53	0° <b>Υ</b>		retrograde	1708 Feb 14 03:01	30°R.MD	
retrograde	1702 Apr 20 00:33	14° <b>Y</b> 30'14		opposition	1708 Mar 16 21:09	26° My 21'57	1°35'03
min. Earth dist.	1702 Aug 04 05:15 1702 Oct 02 05:35	9° <b>Υ</b> 35'35	3.94890 AU	min. Earth dist.	1708 Mar 17 12:48	26° Mp 16'53	4.45243 AU
	1702 Oct 02 03:33 1702 Oct 03 04:49	9° <b>Υ</b> 27'45		direct		20 lg 10 33 21° lg 19'09	4.43243 AU
opposition	1702 Oct 03 04:49 1702 Nov 30 02:57	9 1 27 43 4° <b>Υ</b> 33'40	-1 39 09	direct	1708 May 18 07:47	0° <b>⊽</b>	
direct		4 γ 33 40 24° <b>Υ</b> 17'50			1708 Aug 09 04:47	0 <u>≈</u> 8° <b>≏</b> 49'36	
evening set	1703 Apr 04 21:17	24 11/30		evening set	1708 Sep 21 21:39		C 45201 ATT
	1702 4 10 00 24	2700021142	1001140	max. Earth dist.	1708 Oct 03 10:32	11° <b>≏</b> 19'05	6.45391 AU
conjunction	1703 Apr 18 08:24	27° <b>Y</b> 31'42			1700 0 4 04 20 07	110007117	1006144
minimum elong	1703 Apr 18 08:26	27° <b>Y</b> 31'43	1°01'48	conjunction	1708 Oct 04 20:07	11° <b>Ω</b> 37'17	1°06'44
max. Earth dist.	1703 Apr 20 06:24	27° <b>Y</b> 59'19	5.96485 AU	minimum elong	1708 Oct 04 20:07	11° <b>△</b> 37'17	1°06'43
	1703 Apr 28 15:44	0°8		morning rise	1708 Oct 17 15:36	14° <b>£</b> 23'37	
morning rise	1703 May 01 22:37	0° <b>8</b> 47'02			1709 Jan 18 07:37	0° <b>™</b>	
	1703 Jul 07 12:45	15° <b>8</b>		retrograde	1709 Feb 14 18:22	1°M09'37	
retrograde	1703 Sep 10 15:26	21° <b>8</b> 13'45			1709 Mar 14 07:24	30°Ŗ <b>Ω</b>	
min. Earth dist.	1703 Nov 07 19:09	_	4.00448 AU	opposition	1709 Apr 16 12:26	26° <b>≏</b> 17'12	1°31'53
opposition	1703 Nov 09 05:35	16° <b>8</b> 08'48	-1°17'01	min. Earth dist.	1709 Apr 17 17:49	26° <b>≏</b> 07'48	4.43832 AU
	1703 Nov 17 17:24	15° <b>₹8</b>		direct	1709 Jun 18 06:29	21° <b>≏</b> 15'31	
direct	1704 Jan 06 05:04	11° <b>8</b> 12'16			1709 Sep 09 05:13	0°M₊	
	1704 Feb 24 01:06	15° <b>8</b>		evening set	1709 Oct 22 11:40	8° <b>ጤ</b> 51'47	
	1704 May 08 20:47	$\Pi$ $^{\circ}0$		max. Earth dist.	1709 Nov 02 04:47	11° <b>M</b> 12'48	6.40310 AU
evening set	1704 May 11 09:41	0° <b>Ⅱ</b> 35'23					
				conjunction	1709 Nov 04 05:13	11° <b>M</b> 39'29	0°55'21
conjunction	1704 May 25 02:59	3° <b>Ⅱ</b> 47'37	-0°36'31	minimum elong	1709 Nov 04 05:15	11° <b>M</b> 39'29	0°55'22
minimum elong	1704 May 25 03:01	3° <b>Ⅱ</b> 47'38	0°36'30	morning rise	1709 Nov 16 20:40	14° <b>M</b> 26'17	
max. Earth dist.	1704 May 27 11:52	4° <b>Ⅲ</b> 20'52	6.06047 AU		1709 Nov 19 10:22	15° <b>™</b>	
morning rise	1704 Jun 07 21:52	7° <b>Ⅱ</b> 00'27			1710 Feb 13 16:07	0° <b>∡</b> ¹	
retrograde	1704 Oct 14 17:35	26° <b>Ⅱ</b> 29'32		retrograde	1710 Mar 18 08:34	1° <b>∡</b> ³37′03	
min. Earth dist.	1704 Dec 11 21:50	21° <b>Ⅱ</b> 36'14	4.12862 AU		1710 Apr 20 04:27	30°RM₁	
opposition	1704 Dec 13 06:51	21° <b>II</b> 25'00	-0°27'03	opposition	1710 May 18 05:45	26°M45'14	1°03'40
direct	1705 Feb 10 03:26	16° <b>Ⅱ</b> 25'27		min. Earth dist.	1710 May 19 19:01	26°M33'22	4.35363 AU
	1705 May 24 04:19	0ം <b>ഉ</b>		direct	1710 Jul 19 16:54	21°M45'26	
evening set	1705 Jun 16 18:00	5° <b>©</b> 11'24			1710 Oct 06 18:15	0° <b>⊼</b>	
asc. node	1705 Jun 20 03:11	5° <b>9</b> 57'06		evening set	1710 Nov 22 09:16	9° <b>х</b> 43′51	
				max. Earth dist.	1710 Dec 02 22:47	12° <b>х</b> 06'46	6.29090 AU
conjunction	1705 Jun 30 11:43	8°917'30	0°01'02				
minimum elong	1705 Jun 30 11:43	8°917'30		conjunction	1710 Dec 05 01:10	12° <b>₹</b> ³35'16	0°28'07
behind sun begin	1705 Jun 30 03:21	8°9512'48	0 01 02	minimum elong	1710 Dec 05 01:11	12° <b>₹</b> 35'17	
behind sun end	1705 Jun 30 20:05	8°922'12		morning rise	1710 Dec 17 16:04	15° <b>₹</b> 26'27	0 20 00
max. Earth dist.	1705 Jul 02 07:03	8°941'59	6.20219 AU	morning rise	1711 Mar 03 08:54	0°る	
morning rise	1705 Jul 14 05:26	11°923'15	0.2021) AC	retrograde	1711 Apr 20 20:29	3° <b>る</b> 27'54	
retrograde	1705 Jul 14 05:20 1705 Nov 16 09:33	29°942'14		retrograde	1711 Apr 20 20:29 1711 Jun 09 12:09	30°R. <b>✓</b>	
min. Earth dist.	1706 Jan 14 07:05	24°947'27	4.27360 AU	opposition	1711 Jun 20 17:57	28° <b>₹</b> 34'59	0°15'13
opposition	1706 Jan 15 03:48	24°940'30	0°28'51	min. Earth dist.	1711 Jun 22 02:14	28° 🗷 24'39	4.22025 AU
direct	1706 Mar 16 08:24	19°938'35	0 2031	direct	1711 Aug 21 03:49	23° 🖈 37'39	4.22023 AU
direct	1706 Jun 13 22:59	0° <b>Ω</b>		desc. node	1711 Aug 21 03.49 1711 Oct 06 18:20	25 <b>x</b> 57 39 26° <b>x</b> 51'07	
evening set	1706 Jul 21 04:33	7° <b>Ω</b> 47'15		desc. Hode	1711 Oct 00 18:20 1711 Oct 27 07:27	20 x 31 07 0°る	
evening set	1/00 Jul 21 04.33	/ 064/13		avanina aat			
aaniumatiam	1706 Ave 02 17:25	10° <b>Ω</b> 45'28	0°36'33	evening set max. Earth dist.	1711 Dec 24 13:01 1712 Jan 04 17:57	12°る11'08 14°る47'45	6.14763 AU
conjunction	1706 Aug 03 17:35			max. Earth dist.	1/12 Jan 04 1/:5/	14-04/43	0.14/03 AU
minimum elong	1706 Aug 03 17:33	10° <b>Ω</b> 45'27	0°36'32		1710 I 06 06 11	150-20056	000015.4
max. Earth dist.	1706 Aug 04 12:35	10° <b>£</b> 55'55	6.33929 AU	conjunction	1712 Jan 06 06:11	15° <b>る</b> 08'56	
morning rise	1706 Aug 17 04:33	13° <b>Ω</b> 42'31		minimum elong	1712 Jan 06 06:10	15°₹08'55	0°08'54
	1706 Aug 23 03:20	15° <b>Ω</b>		behind sun begin	1712 Jan 05 23:16	15° <b>る</b> 04'54	
	1706 Nov 21 06:12	0° m/)		behind sun end	1712 Jan 06 13:05	15°る12'56	
retrograde	1706 Dec 17 08:20	1° mp 04'24		morning rise	1712 Jan 18 23:44	18° <b>る</b> 07'14	
	1707 Jan 12 06:52	30°R€		_	1712 Mar 14 17:39	0° <b>≈</b>	
opposition	1707 Feb 15 09:43	26° <b>Ω</b> 06'30		retrograde	1712 May 25 19:14	7°≈16'13	
min. Earth dist.	1707 Feb 15 06:28	26° <b>Ω</b> 07'34	4.39259 AU	opposition	1712 Jul 25 09:11	2° <b>≈</b> 20'47	
direct	1707 Apr 17 21:17	21° <b>Ω</b> 03'36		min. Earth dist.	1712 Jul 26 03:07		4.07749 AU
	1707 Jul 10 13:39	0° <b>m</b> ∕			1712 Aug 13 05:31	30°Rる	
evening set	1707 Aug 22 17:38	8° <b>m</b> 45'20		direct	1712 Sep 23 10:12	27° <b>る</b> 25'55	
					1712 Nov 02 19:42	0° <b>≈</b>	
conjunction	1707 Sep 04 23:00	11° <b>m</b> )36'44	1°00'06		1713 Jan 19 17:42	15° <b>≈</b>	
minimum elong	1707 Sep 04 22:58	11° <b>m</b> 36'43	1°00'06	evening set	1713 Jan 26 15:22	16° <b>≈</b> 38′10	
max. Earth dist.	1707 Sep 04 12:11	11° <b>m</b> 30'53	6.43094 AU				

conjunction	1713 Feb 08 12:37	19° <b>≈</b> 43'17	-0°44'28	max. Earth dist.	1718 Aug 08 21:49	15° <b>Ω</b> 24'03	6.35604 AU
minimum elong	1713 Feb 08 12:35	19° <b>≈</b> 43'16	0°44'28	morning rise	1718 Aug 21 18:05	18° <b>Ω</b> 12'27	0.55001110
max. Earth dist.	1713 Feb 08 02:21	19° <b>≈</b> 37'08	6.01837 AU		1718 Oct 20 20:49	0° m)	
morning rise	1713 Feb 21 11:58	22° <b>≈</b> 49'43		retrograde	1718 Dec 21 13:54	5° m/28'09	
S	1713 Mar 24 14:14	0° <b>)</b> €		opposition	1719 Feb 19 16:30	0° mp 30'43	1°17'21
retrograde	1713 Jul 02 12:49	13° <b>)</b> €02'15		min. Earth dist.	1719 Feb 19 16:16	0° mp 30'48	4.40490 AU
opposition	1713 Aug 31 17:45	8° <b>₩</b> 03'04	-1°26'23		1719 Feb 23 14:01	30°R <b>Ω</b>	
min. Earth dist.	1713 Aug 31 12:06	8° <b>₩</b> 04'56	3.97499 AU	direct	1719 Apr 22 07:49	25° <b>Ω</b> 27'42	
direct	1713 Oct 29 08:57	3° <b>¥</b> 09'31			1719 Jun 18 16:12	0° <b>m</b> )	
evening set	1714 Mar 03 19:00	22° <b>)(</b> 49'11		evening set	1719 Aug 27 03:44	13° <b>m</b> 07'01	
conjunction	1714 Mar 16 23:08	26° <b>)</b> €00′24	-1°04'35	conjunction	1719 Sep 09 08:12	15° <b>m</b> 57'43	1°02'05
minimum elong	1714 Mar 16 23:07	26° <b>)</b> €00′23	1°04'35	minimum elong	1719 Sep 09 08:11	15° <b>m</b> 57'42	1°02'05
max. Earth dist.	1714 Mar 17 22:19	26° <b>∺</b> 14'27	5.95187 AU	max. Earth dist.	1719 Sep 08 18:42	15° <b>m</b> 50'25	6.43791 AU
morning rise	1714 Mar 30 06:21	29° <b>∺</b> 13′18		morning rise	1719 Sep 22 09:42	18° <b>m</b> 46'59	
	1714 Apr 02 12:13	0° <b>Υ</b>			1719 Nov 18 23:12	0∘ <b>⊽</b>	
retrograde	1714 Aug 09 18:43	19° <b>Y</b> 55'18		retrograde	1720 Jan 20 16:08	5° <b>≙</b> 34'44	
opposition	1714 Oct 08 13:47	14° <b>Y</b> 52'15		opposition	1720 Mar 21 03:10	0° <b>≙</b> 40'34	1°36'09
min. Earth dist.	1714 Oct 07 12:21		3.95330 AU	min. Earth dist.	1720 Mar 21 20:45	0° <b>≙</b> 34'53	4.45388 AU
direct	1714 Dec 05 11:38	9° <b>Y</b> 57'52			1720 Mar 26 09:06	30°R, Mp	
evening set	1715 Apr 10 05:53	29° <b>Y</b> 39'36		direct	1720 May 22 14:53	25° m/37'52	
	1715 Apr 11 16:07	0° <b>8</b>			1720 Jul 18 05:59	0∘ <b>⊽</b>	
	1715 4 22 10 00	20 4 52124	0050120	evening set	1720 Sep 26 05:04	13° <b>≏</b> 08'34	C 44057 ATT
conjunction	1715 Apr 23 18:08	2° <b>8</b> 53'24		max. Earth dist.	1720 Oct 07 12:51	15° <b>≏</b> 35'35	6.44957 AU
minimum elong	1715 Apr 23 18:10	2° <b>8</b> 53'26			1720 0 4 00 02 24	150 0 50102	100/111
max. Earth dist.	1715 Apr 25 20:21	3° <b>8</b> 23'28	5.97628 AU	conjunction	1720 Oct 09 02:34	15° <b>£</b> 56'03	1°06'11
morning rise	1715 May 07 09:08	6° <b>と</b> 08'34 15° <b>と</b>		minimum elong	1720 Oct 09 02:34 1720 Oct 21 21:29	15° <b>♀</b> 56'03 18° <b>♀</b> 42'19	1°06'11
retrograde	1715 Jun 15 11:27 1715 Sep 15 18:35	26° <b>8</b> 27'57		morning rise	1720 Oct 21 21:29 1720 Dec 18 17:24	0°M	
min. Earth dist.	1715 Sep 13 18:55 1715 Nov 12 20:57	20 <b>8</b> 2737	4.02153 AU	retrograde	1720 Bec 18 17.24 1721 Feb 19 04:16	5°M30'36	
opposition	1715 Nov 12 20:57	21° <b>8</b> 22'53		opposition	1721 Apr 20 21:33	0°M38'22	1°29'20
direct	1716 Jan 11 09:43	16° <b>8</b> 25'56	-1 11 00	min. Earth dist.	1721 Apr 20 21:33	0°ML28'10	4.42853 AU
uncet	1716 Apr 21 08:28	0°Ⅱ		iiiii. Lattii tiist.	1721 Apr 25 03:28	30°R <u>₽</u>	4.42033 AO
evening set	1716 May 16 15:11	5° <b>Ⅱ</b> 43'19		direct	1721 Jun 22 16:08	25° <b>£</b> 36'52	
evening sec	1710 May 10 13.11	3 1 13 17		direct	1721 Aug 18 04:57	0° <b>M</b>	
conjunction	1716 May 30 08:41	8° <b>∏</b> 54'43	-0°31'36	evening set	1721 Oct 26 19:10	13°ML15'57	
minimum elong	1716 May 30 08:43	8° <b>Ⅱ</b> 54'44		<i>3</i>	1721 Nov 03 16:26	15° <b>M</b> ₊	
max. Earth dist.	1716 Jun 01 15:37	9° <b>Ⅱ</b> 26′39	6.08132 AU	max. Earth dist.	1721 Nov 06 11:17	15°M36'54	6.38860 AU
morning rise	1716 Jun 13 03:52	12° <b>Ⅱ</b> 06′39					
C	1716 Sep 19 17:08	0∘ <b>©</b>		conjunction	1721 Nov 08 12:29	16°ML04'05	0°52'21
retrograde	1716 Oct 19 09:55	1° <b>5</b> 24'58		minimum elong	1721 Nov 08 12:31	16°ML04'06	0°52'21
	1716 Nov 17 20:50	30°R <b>Ⅱ</b>		morning rise	1721 Nov 21 03:37	18°ML51'23	
min. Earth dist.	1716 Dec 16 16:45	26° <b>Ⅲ</b> 31'31	4.15107 AU		1722 Jan 15 17:36	0° <b>∡¹</b>	
opposition	1716 Dec 18 00:38	26° <b>Ⅱ</b> 20'40	-0°19'01	retrograde	1722 Mar 22 22:16	6° <b>₰</b> ¹08'26	
direct	1717 Feb 15 01:37	21° <b>Ⅱ</b> 20'41		opposition	1722 May 22 20:29	1° <b>∡</b> 16'33	0°57'49
asc. node	1717 Apr 29 17:12	28° <b>∏</b> 59'24		min. Earth dist.	1722 May 24 08:47	1° <b>∡</b> ¹04'59	4.33543 AU
	1717 May 05 03:48	$0$ $\circ$ $\odot$			1722 Jun 01 23:35	30°RML	
evening set	1717 Jun 21 16:40	10° <b>©</b> 00'21		direct	1722 Jul 24 03:29	26°M17′08	
					1722 Sep 13 05:52	0° <b>∡</b> ¹	
conjunction	1717 Jul 05 10:06	13° <b>©</b> 05'20	0°06'27	evening set	1722 Nov 26 20:35	14° <b>∡</b> ¹20′28	
minimum elong	1717 Jul 05 10:05	13° <b>©</b> 05'19	0°06'28	max. Earth dist.	1722 Dec 07 11:59	16° <b>⊀</b> ¹45′08	6.27062 AU
behind sun begin	1717 Jul 05 02:16	13°900'57					
behind sun end	1717 Jul 05 17:54	13°509'42		conjunction	1722 Dec 09 12:28	17° 🗷 12'42	0°23'15
max. Earth dist.	1717 Jul 07 02:57	13°528'19	6.22456 AU	minimum elong	1722 Dec 09 12:29	17° <b>∡</b> 12'43	0°23'15
morning rise	1717 Jul 19 02:57	16°909'45		morning rise	1722 Dec 22 03:33	20° <b>∡</b> ′04'48	
. 1	1717 Sep 27 23:22	0° <b>Ω</b>		. 1	1723 Feb 07 01:01	0°る	
retrograde	1717 Nov 20 20:21	4° <b>Ω</b> 19'02		retrograde	1723 Apr 25 20:45	8°る15'21	0007117
annagition	1718 Jan 14 08:24 1718 Jan 19 14:43	30° <b>₹ॐ</b> 29° <b>ॐ</b> 17'50	0°36'02	opposition min. Earth dist.	1723 Jun 25 16:13 1723 Jun 26 23:43	3°る22'14 3°る12'08	0°07'16 4.19933 AU
opposition min. Earth dist.	1718 Jan 19 14:43 1718 Jan 18 20:40	29°917'50 29°923'53	4.29399 AU	mm. Earth dist.	1723 Jul 26 23:43 1723 Jul 24 15:47	3°612'08 30°8⊀	4.17933 AU
direct	1718 Jan 18 20:40 1718 Mar 21 00:04	29°923'53 24°915'43	7.47377 AU	desc. node	1723 Jul 24 15:47 1723 Aug 15 20:35	30° <b>₹</b> ×¹ 28° <b>∡</b> ³34'56	
uncet	1718 May 24 02:55	24 <b>3</b> 13 43		direct	1723 Aug 15 20:33 1723 Aug 25 22:46	28° <b>₹</b> 25'19	
evening set	1718 Jul 25 20:10	12° <b>Ω</b> 19'26		311001	1723 Aug 25 22:40 1723 Sep 26 23:12	0°る	
	1718 Aug 07 01:55	12° <b>Ω</b> 1720		evening set	1723 Dec 29 06:16	0 0 17°る04'21	
		00		5 · 5 5 · ·			
conjunction	1718 Aug 08 08:06	15° <b>Ω</b> 16'32	0°40'43	conjunction	1724 Jan 10 23:51	20° <b>ප</b> 03'09	-0°14'20
minimum elong	1718 Aug 08 08:03	15° <b>Ω</b> 16'31		minimum elong	1724 Jan 10 23:50	20° <b>ට</b> 03'09	
Č	<b>5</b>			S			

behind sun begin	1724 Jan 10 19:54	20° <b>ප</b> 00'51		max. Earth dist.	1729 Jul 11 17:50	18° <b>©</b> 05'26	6.24336 AU
behind sun end	1724 Jan 11 03:45	20° <b>る</b> 05'26		morning rise	1729 Jul 23 21:01	20°9548'01	
max. Earth dist.	1724 Jan 09 14:24	19° <b>る</b> 43'32	6.12811 AU		1729 Sep 05 19:17	$0^{\circ}\Omega$	
morning rise	1724 Jan 23 18:06	23° <b>る</b> 02'35		retrograde	1729 Nov 25 02:51	8° <b>Ω</b> 49'19	
	1724 Feb 23 14:00	0° <b>≈</b>		opposition	1730 Jan 23 22:59	3° <b>Ω</b> 48'40	0°42'48
retrograde	1724 May 30 23:54	12° <b>≈</b> 20'54		min. Earth dist.	1730 Jan 23 06:54	3° <b>£</b> 54′03	4.31014 AU
opposition	1724 Jul 30 14:05	7° <b>≈</b> 24'59	-0°49'07		1730 Feb 25 13:36	30° <b>ℝ</b>	
min. Earth dist.	1724 Jul 31 03:47	7° <b>≈</b> 20'32	4.06135 AU	direct	1730 Mar 25 11:40	28° <b>5</b> 46'23	
direct	1724 Sep 28 09:10	2° <b>≈</b> 30′27			1730 Apr 22 19:56	$0^{\circ}\Omega$	
	1725 Jan 02 07:10	15° <b>≈</b>			1730 Jul 22 03:39	15° <b>Ω</b>	
evening set	1725 Jan 31 15:14	21° <b>≈</b> 46'47		evening set	1730 Jul 30 09:38	16° <b>Ω</b> 46'49	
conjunction	1725 Feb 13 13:13	24°≈52'44	-0°48'32	conjunction	1730 Aug 12 20:41	19°Ω43'02	0°44'33
minimum elong	1725 Feb 13 13:11	24°≈52'43	0°48'31	minimum elong	1730 Aug 12 20:38	19° <b>Ω</b> 43'01	0°44'33
max. Earth dist.	1725 Feb 13 08:17	24°≈49'46	6.00709 AU	max. Earth dist.	1730 Aug 13 06:31	19° <b>Ω</b> 48'24	6.36853 AU
morning rise	1725 Feb 26 13:27	28°≈00'03	0.00707110	morning rise	1730 Aug 26 05:29	22° <b>Ω</b> 37'59	0.50005110
morning rise	1725 Mar 06 23:36	0° <b>∀</b>		morning rise	1730 Sep 30 16:23	0° m)	
retrograde	1725 Jul 07 22:28	18° <b>米</b> 18'10		retrograde	1730 Dec 25 19:30	9° <b>m</b> )49'10	
opposition	1725 Sep 06 01:33	13° <b>)</b> 18′23	-1°30'20	opposition	1731 Feb 23 22:19	-•	1°21'22
min. Earth dist.	1725 Sep 05 01:55		3.96985 AU	min. Earth dist.	1731 Feb 24 00:57	4° Mp 51'27	4.41310 AU
direct	1725 Nov 03 14:33	8° <b>¥</b> 24′50	3.90983 AU	iiiii. Eartii dist.	1731 Apr 15 23:14	4 11√31 27 30°RΩ	4.41310 AU
	1726 Mar 08 23:30	28° <b>H</b> 05'04		direct	1731 Apr 13 23:14 1731 Apr 26 16:55	29° <b>Ω</b> 49'22	
evening set	1726 Mar 16 21:58	28 <del>Υ</del> 03 04 0° <b>Υ</b>		direct	1		
	1/20 Mar 10 21:38	U- Y			1731 May 07 12:16	0°M) 17°™ 27!27	
	1726 Mar 22 04:46	1° <b>Y</b> 16'43	1905127	evening set	1731 Aug 31 12:54	17° <b>m</b> , 27'27	
conjunction		1° <b>Υ</b> 16'43			1721 0 12 16 10	200 m. 17120	1002141
minimum elong	1726 Mar 22 04:45		5.95330 AU	conjunction	1731 Sep 13 16:19	~	1°03'41
max. Earth dist.	1726 Mar 23 09:26		5.95550 AU	minimum elong	1731 Sep 13 16:17	20° Mp 17'38	1°03'41
morning rise	1726 Apr 04 12:59	4° <b>Υ</b> 30'00 25° <b>Υ</b> 10'19		max. Earth dist.	1731 Sep 12 22:05	20° Mp 07'47	6.44115 AU
retrograde	1726 Aug 15 00:31		100 (10 #	morning rise	1731 Sep 26 16:57	23° Mp 06'26	
opposition	1726 Oct 13 18:33	20° <b>Υ</b> 06'54			1731 Oct 30 01:58	0∘ <b>⊽</b>	
min. Earth dist.	1726 Oct 12 15:11	20° <b>Y</b> 16′09	3.96135 AU	retrograde	1732 Jan 24 22:25	9° <b>£</b> 53'30	100 (141
direct	1726 Dec 10 15:20	15° <b>Y</b> 12'17		opposition	1732 Mar 25 09:40	4° <b>£</b> 59'41	1°36'41
	1727 Mar 25 16:27	0°8		min. Earth dist.	1732 Mar 26 05:33	4° <b>£</b> 53'15	4.45233 AU
evening set	1727 Apr 15 10:58	4° <b>8</b> 50'42			1732 May 21 07:25	30°R Mp	
				direct	1732 May 26 22:51	29° <b>m</b> 57'06	
conjunction	1727 Apr 28 23:57	8° <b>8</b> 04'15			1732 Jun 01 15:00	0∘ <b>⊽</b>	
minimum elong	1727 Apr 28 23:59	8° <b>8</b> 04'17		evening set	1732 Sep 30 12:13	17° <b>£</b> 28'43	
max. Earth dist.	1727 May 01 02:24	8° <b>8</b> 34'20	5.98982 AU	max. Earth dist.	1732 Oct 11 18:50	19° <b>≏</b> 55'21	6.44341 AU
morning rice		110 🔀 10/00					
morning rise	1727 May 12 15:55	11° <b>8</b> 19'09					
morning risc	1727 May 28 10:38	15° <b>8</b>		conjunction	1732 Oct 13 09:09		1°05'14
•	1727 May 28 10:38 1727 Aug 20 23:39	15° <b>8</b> 0°Ⅲ		minimum elong	1732 Oct 13 09:10	20° <b>≏</b> 16'12	1°05'14 1°05'14
retrograde	1727 May 28 10:38 1727 Aug 20 23:39 1727 Sep 20 15:25	15° <b>8</b> 0°П 1°П30'39		•	1732 Oct 13 09:10 1732 Oct 26 03:13	20° <b>£</b> 16'12 23° <b>£</b> 02'24	
retrograde	1727 May 28 10:38 1727 Aug 20 23:39 1727 Sep 20 15:25 1727 Oct 21 01:30	15°8 0°Ⅱ 1°Ⅱ30'39 30°R8		minimum elong morning rise	1732 Oct 13 09:10 1732 Oct 26 03:13 1732 Nov 28 15:28	20° <b>ച</b> 16'12 23° <b>ച</b> 02'24 0° <b>സ</b>	
retrograde min. Earth dist.	1727 May 28 10:38 1727 Aug 20 23:39 1727 Sep 20 15:25 1727 Oct 21 01:30 1727 Nov 17 18:11	15°8 0°用 1°用30'39 30°R8 26°837'40	4.03896 AU	minimum elong morning rise retrograde	1732 Oct 13 09:10 1732 Oct 26 03:13 1732 Nov 28 15:28 1733 Feb 23 12:28	20° <b>£</b> 16'12 23° <b>£</b> 02'24 0° <b>M</b> 9° <b>M</b> 53'32	1°05'14
retrograde min. Earth dist. opposition	1727 May 28 10:38 1727 Aug 20 23:39 1727 Sep 20 15:25 1727 Oct 21 01:30 1727 Nov 17 18:11 1727 Nov 19 05:40	15°♥ 0°Ⅲ 1°Ⅲ30'39 30°₹♥ 26°♥37'40 26°♥25'34		minimum elong morning rise retrograde opposition	1732 Oct 13 09:10 1732 Oct 26 03:13 1732 Nov 28 15:28 1733 Feb 23 12:28 1733 Apr 25 07:13	20° <b>Ω</b> 16'12 23° <b>Ω</b> 02'24 0° <b>M</b> 9° <b>M</b> 53'32 5° <b>M</b> 01'26	1°05'14 1°26'15
retrograde min. Earth dist.	1727 May 28 10:38 1727 Aug 20 23:39 1727 Sep 20 15:25 1727 Oct 21 01:30 1727 Nov 17 18:11 1727 Nov 19 05:40 1728 Jan 16 09:51	15°♥ 0°Ⅱ 1°Ⅱ30'39 30°₹♥ 26°♥37'40 26°♥25'34 21°♥28'11		minimum elong morning rise retrograde opposition min. Earth dist.	1732 Oct 13 09:10 1732 Oct 26 03:13 1732 Nov 28 15:28 1733 Feb 23 12:28 1733 Apr 25 07:13 1733 Apr 26 15:29	20° № 16'12 23° № 02'24 0° M 9° M 53'32 5° M 01'26 4° M 51'08	1°05'14
retrograde min. Earth dist. opposition direct	1727 May 28 10:38 1727 Aug 20 23:39 1727 Sep 20 15:25 1727 Oct 21 01:30 1727 Nov 17 18:11 1727 Nov 19 05:40 1728 Jan 16 09:51 1728 Apr 02 07:29	15°8 0°用 1°用30'39 30°R8 26°837'40 26°825'34 21°828'11 0°用		minimum elong morning rise retrograde opposition	1732 Oct 13 09:10 1732 Oct 26 03:13 1732 Nov 28 15:28 1733 Feb 23 12:28 1733 Apr 25 07:13 1733 Apr 26 15:29 1733 Jun 27 00:25	20° \Omega 16'12 23° \Omega 02'24 0° \Omega . 9° \Omega 53'32 5° \Omega 01'26 4° \Omega 51'08 0° \Omega 00'15	1°05'14 1°26'15
retrograde min. Earth dist. opposition	1727 May 28 10:38 1727 Aug 20 23:39 1727 Sep 20 15:25 1727 Oct 21 01:30 1727 Nov 17 18:11 1727 Nov 19 05:40 1728 Jan 16 09:51	15°♥ 0°Ⅱ 1°Ⅱ30'39 30°₹♥ 26°♥37'40 26°♥25'34 21°♥28'11		minimum elong morning rise retrograde opposition min. Earth dist. direct	1732 Oct 13 09:10 1732 Oct 26 03:13 1732 Nov 28 15:28 1733 Feb 23 12:28 1733 Apr 25 07:13 1733 Apr 26 15:29 1733 Jun 27 00:25 1733 Oct 18 16:44	20° \Omega 16'12 23° \Omega 02'24 0° \Omega. 9° \Omega 53'32 5° \Omega 01'26 4° \Omega 51'08 0° \Omega 00'15 15° \Omega.	1°05'14 1°26'15
retrograde min. Earth dist. opposition direct evening set	1727 May 28 10:38 1727 Aug 20 23:39 1727 Sep 20 15:25 1727 Oct 21 01:30 1727 Nov 17 18:11 1727 Nov 19 05:40 1728 Jan 16 09:51 1728 Apr 02 07:29 1728 May 21 16:12	15°8 0°Ⅲ 1°Ⅲ30'39 30°R8 26°837'40 26°825'34 21°828'11 0°Ⅲ 10°Ⅲ40'09	-1°04'51	minimum elong morning rise retrograde opposition min. Earth dist. direct	1732 Oct 13 09:10 1732 Oct 26 03:13 1732 Nov 28 15:28 1733 Feb 23 12:28 1733 Apr 25 07:13 1733 Apr 26 15:29 1733 Jun 27 00:25 1733 Oct 18 16:44 1733 Oct 31 03:07	20° \Omega 16'12 23° \Omega 02'24 0° \mathred{m}. 9° \mathred{m}.53'32 5° \mathred{m}.01'26 4° \mathred{m}.51'08 0° \mathred{m}.00'15 15° \mathred{m}. 17° \mathred{m}.42'01	1°05'14 1°26'15 4.41824 AU
retrograde min. Earth dist. opposition direct evening set conjunction	1727 May 28 10:38 1727 Aug 20 23:39 1727 Sep 20 15:25 1727 Oct 21 01:30 1727 Nov 17 18:11 1727 Nov 19 05:40 1728 Jan 16 09:51 1728 Apr 02 07:29 1728 May 21 16:12	15°8 0°II 1°II30'39 30°R8 26°837'40 26°825'34 21°828'11 0°II 10°II40'09 13°II50'50	-1°04'51 -0°26'37	minimum elong morning rise retrograde opposition min. Earth dist. direct	1732 Oct 13 09:10 1732 Oct 26 03:13 1732 Nov 28 15:28 1733 Feb 23 12:28 1733 Apr 25 07:13 1733 Apr 26 15:29 1733 Jun 27 00:25 1733 Oct 18 16:44	20° \Omega 16'12 23° \Omega 02'24 0° \Omega. 9° \Omega 53'32 5° \Omega 01'26 4° \Omega 51'08 0° \Omega 00'15 15° \Omega.	1°05'14 1°26'15
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong	1727 May 28 10:38 1727 Aug 20 23:39 1727 Sep 20 15:25 1727 Oct 21 01:30 1727 Nov 17 18:11 1727 Nov 19 05:40 1728 Jan 16 09:51 1728 Apr 02 07:29 1728 May 21 16:12 1728 Jun 04 10:08 1728 Jun 04 10:10	15°8 0°II 1°II30'39 30°R8 26°837'40 26°825'34 21°828'11 0°II 10°II40'09 13°II50'50 13°II50'51	-1°04'51 -0°26'37 0°26'37	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.	1732 Oct 13 09:10 1732 Oct 26 03:13 1732 Nov 28 15:28 1733 Feb 23 12:28 1733 Apr 25 07:13 1733 Apr 26 15:29 1733 Jun 27 00:25 1733 Oct 18 16:44 1733 Oct 31 03:07 1733 Nov 10 17:43	20° № 16'12 23° № 02'24 0° M. 9° M.53'32 5° M.01'26 4° M.51'08 0° M.00'15 15° M. 17° M.42'01 20° M.02'40	1°05'14 1°26'15 4.41824 AU 6.37489 AU
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retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	1727 May 28 10:38 1727 Aug 20 23:39 1727 Sep 20 15:25 1727 Oct 21 01:30 1727 Nov 17 18:11 1727 Nov 19 05:40 1728 Jan 16 09:51 1728 Apr 02 07:29 1728 May 21 16:12  1728 Jun 04 10:08 1728 Jun 04 10:10 1728 Jun 04 10:10 1728 Jun 06 16:03 1728 Jun 18 05:13 1728 Aug 19 20:35 1728 Oct 24 00:56 1728 Dec 21 09:20 1728 Dec 22 14:50 1728 Dec 30 20:34 1729 Feb 19 20:16 1729 Mar 10 13:23	15°8 0°II 1°II30'39 30°R8 26°837'40 26°825'34 21°828'11 0°II 10°II40'09 13°II50'50 13°II50'51 14°II22'03 17°II01'50 0°9 6°910'23 1°916'30 1°906'30 30°RII 26°II06'12 26°II40'28	-1°04'51 -0°26'37 0°26'37 6.10120 AU 4.17121 AU	minimum elong morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition min. Earth dist. direct evening set max. Earth dist.	1732 Oct 13 09:10 1732 Oct 26 03:13 1732 Nov 28 15:28 1733 Feb 23 12:28 1733 Apr 25 07:13 1733 Apr 26 15:29 1733 Jun 27 00:25 1733 Oct 18 16:44 1733 Oct 31 03:07 1733 Nov 10 17:43  1733 Nov 12 19:55 1733 Nov 12 19:57 1733 Nov 25 10:58 1733 Dec 26 22:16 1734 Mar 27 14:22 1734 May 27 11:45 1734 May 29 00:30 1734 Jul 28 17:07 1734 Dec 01 07:22 1734 Dec 12 00:32	20° № 16'12 23° № 02'24 0° № 9° № 53'32 5° № 01'26 4° № 51'08 0° № 00'15 15° № 17° № 42'01 20° № 30'31 20° № 30'31 20° № 30'32 23° № 18'18 0° ※ 10° ※ 49'19 5° ※ 49'19 5° ※ 45'0'10 18° ※ 55'30 21° ※ 23'45	1°05'14 1°26'15 4.41824 AU 6.37489 AU 0°49'01 0°49'01 0°51'35 4.31893 AU 6.25262 AU
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct asc. node evening set	1727 May 28 10:38 1727 Aug 20 23:39 1727 Sep 20 15:25 1727 Oct 21 01:30 1727 Nov 17 18:11 1727 Nov 19 05:40 1728 Jan 16 09:51 1728 Apr 02 07:29 1728 May 21 16:12 1728 Jun 04 10:08 1728 Jun 04 10:10 1728 Jun 04 10:10 1728 Jun 06 16:03 1728 Jun 18 05:13 1728 Aug 19 20:35 1728 Oct 24 00:56 1728 Dec 21 09:20 1728 Dec 21 09:20 1728 Dec 22 14:50 1729 Feb 19 20:16 1729 Mar 10 13:23 1729 Apr 11 16:38 1729 Jun 26 11:54	15°8 0°II 1°II30'39 30°R8 26°837'40 26°825'34 21°828'11 0°II 10°II40'09 13°II50'50 13°II50'51 14°II22'03 17°II01'50 0°S 6°S10'23 1°S16'30 1°S06'30 30°RII 26°II06'12 26°II40'28 0°S 14°S40'44	-1°04'51 -0°26'37 0°26'37 6.10120 AU 4.17121 AU -0°11'09	minimum elong morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction	1732 Oct 13 09:10 1732 Oct 26 03:13 1732 Nov 28 15:28 1733 Feb 23 12:28 1733 Apr 25 07:13 1733 Apr 26 15:29 1733 Jun 27 00:25 1733 Oct 18 16:44 1733 Oct 31 03:07 1733 Nov 10 17:43  1733 Nov 12 19:55 1733 Nov 12 19:57 1733 Nov 25 10:58 1733 Nov 25 10:58 1733 Dec 26 22:16 1734 Mar 27 14:22 1734 May 27 11:45 1734 May 29 00:30 1734 Jul 28 17:07 1734 Dec 01 07:22 1734 Dec 12 00:32	20° № 16'12 23° № 02'24 0° № 9° № 53'32 5° № 01'26 4° № 51'08 0° № 00'15 15° № 17° № 42'01 20° № 30'31 20° № 30'31 20° № 30'32 23° № 18'18 0° ※ 10° ※ 44'19 5° ※ 49'19 5° ※ 37'35 0° ※ 50'10 18° ※ 57'30 21° ※ 23'45	1°05'14 1°26'15 4.41824 AU 6.37489 AU 0°49'01 0°49'01 0°51'35 4.31893 AU 6.25262 AU 0°18'14
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct asc. node evening set conjunction	1727 May 28 10:38 1727 Aug 20 23:39 1727 Sep 20 15:25 1727 Oct 21 01:30 1727 Nov 17 18:11 1727 Nov 19 05:40 1728 Jan 16 09:51 1728 Apr 02 07:29 1728 May 21 16:12 1728 Jun 04 10:08 1728 Jun 04 10:10 1728 Jun 04 10:10 1728 Jun 06 16:03 1728 Jun 18 05:13 1728 Aug 19 20:35 1728 Oct 24 00:56 1728 Dec 21 09:20 1728 Dec 21 09:20 1728 Dec 22 14:50 1728 Dec 30 20:34 1729 Feb 19 20:16 1729 Mar 10 13:23 1729 Apr 11 16:38 1729 Jun 26 11:54	15°8 0°II 1°II30'39 30°R8 26°837'40 26°825'34 21°828'11 0°II 10°II40'09 13°II50'50 13°II50'51 14°II22'03 17°II01'50 0°S 6°S10'23 1°S16'30 1°S06'30 30°RII 26°II06'12 26°II40'28 0°S 14°S40'44	-1°04'51  -0°26'37 0°26'37 6.10120 AU  4.17121 AU -0°11'09	minimum elong morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction min. Earth dist.	1732 Oct 13 09:10 1732 Oct 26 03:13 1732 Nov 28 15:28 1733 Feb 23 12:28 1733 Apr 25 07:13 1733 Apr 26 15:29 1733 Jun 27 00:25 1733 Oct 18 16:44 1733 Oct 31 03:07 1733 Nov 10 17:43  1733 Nov 12 19:55 1733 Nov 12 19:57 1733 Nov 25 10:58 1733 Dec 26 22:16 1734 Mar 27 14:22 1734 May 27 11:45 1734 May 29 00:30 1734 Jul 28 17:07 1734 Dec 01 07:22 1734 Dec 12 00:32  1734 Dec 13 23:24 1734 Dec 13 23:25	20° № 16'12 23° № 02'24 0° № 9° № 53'32 5° № 01'26 4° № 51'08 0° № 00'15 15° № 17° № 42'01 20° № 30'31 20° № 30'31 20° № 30'32 23° № 18'18 0° ※ 10° ※ 44'19 5° ※ 49'19 5° ※ 49'19 5° ※ 50'10 18° ※ 57'30 21° ※ 50'30 21° ※ 50'31	1°05'14 1°26'15 4.41824 AU 6.37489 AU 0°49'01 0°49'01 0°51'35 4.31893 AU 6.25262 AU
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct asc. node evening set conjunction minimum elong	1727 May 28 10:38 1727 Aug 20 23:39 1727 Sep 20 15:25 1727 Oct 21 01:30 1727 Nov 17 18:11 1727 Nov 19 05:40 1728 Jan 16 09:51 1728 Apr 02 07:29 1728 May 21 16:12 1728 Jun 04 10:08 1728 Jun 04 10:10 1728 Jun 04 10:10 1728 Jun 04 10:10 1728 Jun 18 05:13 1728 Aug 19 20:35 1728 Oct 24 00:56 1728 Dec 21 09:20 1728 Dec 21 09:20 1728 Dec 22 14:50 1728 Dec 30 20:34 1729 Feb 19 20:16 1729 Mar 10 13:23 1729 Apr 11 16:38 1729 Jun 26 11:54	15°8 0°II 1°II30'39 30°R8 26°837'40 26°825'34 21°828'11 0°II 10°II40'09 13°II50'50 13°II50'51 14°II22'03 17°II01'50 0°S 6°S10'23 1°S16'30 1°S06'30 30°RII 26°II06'12 26°II40'28 0°S 14°S40'44 17°S44'42 17°S44'41	-1°04'51 -0°26'37 0°26'37 6.10120 AU 4.17121 AU -0°11'09	minimum elong morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction	1732 Oct 13 09:10 1732 Oct 26 03:13 1732 Nov 28 15:28 1733 Feb 23 12:28 1733 Apr 25 07:13 1733 Apr 26 15:29 1733 Jun 27 00:25 1733 Oct 18 16:44 1733 Oct 31 03:07 1733 Nov 10 17:43  1733 Nov 12 19:55 1733 Nov 12 19:57 1733 Nov 25 10:58 1733 Dec 26 22:16 1734 Mar 27 14:22 1734 May 27 11:45 1734 May 29 00:30 1734 Jul 28 17:07 1734 Dec 01 07:22 1734 Dec 12 00:32  1734 Dec 13 23:24 1734 Dec 13 23:25 1734 Dec 26 14:41	20° \( \Omega \) 16'12 23° \( \Omega \) 02'24 0° \( \Omega \) 9° \( \Omega \) 53'32 5° \( \Omega \) 01'26 4° \( \Omega \) 51'08 0° \( \Omega \) 00'15 15° \( \Omega \) 10° \( \Omega \) 40'12 20° \( \Omega \) 30'31 20° \( \Omega \) 30'32 23° \( \Omega \) 18'18 0° \( \Zampla \) 10° \( \Zampla \) 41'19 5° \( \Zampla \) 41'19 5° \( \Zampla \) 43'25 0° \( \Zampla \) 50'30 21° \( \Zampla \) 50'30 21° \( \Zampla \) 50'31 24° \( \Zampla \) 43'26	1°05'14 1°26'15 4.41824 AU 6.37489 AU 0°49'01 0°49'01 0°51'35 4.31893 AU 6.25262 AU 0°18'14
retrograde min. Earth dist. opposition direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct asc. node evening set conjunction	1727 May 28 10:38 1727 Aug 20 23:39 1727 Sep 20 15:25 1727 Oct 21 01:30 1727 Nov 17 18:11 1727 Nov 19 05:40 1728 Jan 16 09:51 1728 Apr 02 07:29 1728 May 21 16:12 1728 Jun 04 10:08 1728 Jun 04 10:10 1728 Jun 04 10:10 1728 Jun 06 16:03 1728 Jun 18 05:13 1728 Aug 19 20:35 1728 Oct 24 00:56 1728 Dec 21 09:20 1728 Dec 21 09:20 1728 Dec 22 14:50 1728 Dec 30 20:34 1729 Feb 19 20:16 1729 Mar 10 13:23 1729 Apr 11 16:38 1729 Jun 26 11:54	15°8 0°II 1°II30'39 30°R8 26°837'40 26°825'34 21°828'11 0°II 10°II40'09 13°II50'50 13°II50'51 14°II22'03 17°II01'50 0°S 6°S10'23 1°S16'30 1°S06'30 30°RII 26°II06'12 26°II40'28 0°S 14°S40'44	-1°04'51  -0°26'37 0°26'37 6.10120 AU  4.17121 AU -0°11'09	minimum elong morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction min. Earth dist.	1732 Oct 13 09:10 1732 Oct 26 03:13 1732 Nov 28 15:28 1733 Feb 23 12:28 1733 Apr 25 07:13 1733 Apr 26 15:29 1733 Jun 27 00:25 1733 Oct 18 16:44 1733 Oct 31 03:07 1733 Nov 10 17:43  1733 Nov 12 19:55 1733 Nov 12 19:57 1733 Nov 25 10:58 1733 Dec 26 22:16 1734 Mar 27 14:22 1734 May 27 11:45 1734 May 29 00:30 1734 Jul 28 17:07 1734 Dec 01 07:22 1734 Dec 12 00:32  1734 Dec 13 23:24 1734 Dec 13 23:25	20° № 16'12 23° № 02'24 0° № 9° № 53'32 5° № 01'26 4° № 51'08 0° № 00'15 15° № 17° № 42'01 20° № 30'31 20° № 30'31 20° № 30'32 23° № 18'18 0° ※ 10° ※ 44'19 5° ※ 49'19 5° ※ 49'19 5° ※ 50'10 18° ※ 57'30 21° ※ 50'30 21° ※ 50'31	1°05'14 1°26'15 4.41824 AU 6.37489 AU 0°49'01 0°49'01 0°51'35 4.31893 AU 6.25262 AU 0°18'14

desc. node	1735 Jun 25 11:48	8° <b>⋜</b> 47'48		asc. node	1741 Jan 18 04:36	3°508'08	
opposition	1735 Jun 30 13:52	8° <b>ට</b> 08'45	-0°00'43	direct	1741 Feb 24 14:28	0° <b>©</b> 54'52	
min. Earth dist.	1735 Jul 01 18:40	7°る59'30		evening set	1741 Jul 01 09:06	19° <b>©</b> 25'08	
direct	1735 Aug 30 15:22	3° <b>ට</b> 12'11		Ü			
evening set	1736 Jan 02 22:30	21° <b>る</b> 55'50		conjunction	1741 Jul 15 01:25	22° <b>©</b> 28'07	0°16'50
max. Earth dist.	1736 Jan 14 10:15	24° <b>る</b> 37'45	6.11075 AU	minimum elong	1741 Jul 15 01:24	22° <b>©</b> 28'06	0°16'50
				max. Earth dist.	1741 Jul 16 10:35	22°5946'38	6.26050 AU
conjunction	1736 Jan 15 16:23	24° <b>る</b> 55'30	-0°19'38	morning rise	1741 Jul 28 16:51	25°530'22	
minimum elong	1736 Jan 15 16:22	24° <b>る</b> 55'29	0°19'39	•	1741 Aug 18 09:44	$0^{\circ}\Omega$	
morning rise	1736 Jan 28 11:16	27° <b>る</b> 55'56		retrograde	1741 Nov 29 13:45	13° <b>Ω</b> 24'11	
	1736 Feb 06 08:36	0° <b>≈</b>		opposition	1742 Jan 28 09:42	8° <b>Ω</b> 24'05	0°49'27
	1736 Apr 26 16:09	15° <b>≈</b>		min. Earth dist.	1742 Jan 27 20:36	8° <b>Ω</b> 28′28	4.32562 AU
retrograde	1736 Jun 05 05:06	17° <b>≈</b> 22'54		direct	1742 Mar 30 03:27	3° <b>Ω</b> 21'42	
	1736 Jul 15 00:57	15° <b>R</b> ≈			1742 Jul 04 22:59	15° <b>Ω</b>	
opposition	1736 Aug 04 17:31	12° <b>≈</b> 26′27	-0°56'18	evening set	1742 Aug 04 01:00	21° <b>Ω</b> 18'44	
min. Earth dist.	1736 Aug 05 04:58	12° <b>≈</b> 22'43	4.04640 AU				
direct	1736 Oct 03 09:28	7° <b>≈</b> 32'04		conjunction	1742 Aug 17 11:04	24° <b>Ω</b> 14'02	0°48'14
	1736 Dec 13 14:06	15° <b>≈</b>		minimum elong	1742 Aug 17 11:01	24° <b>Ω</b> 14'00	0°48'14
evening set	1737 Feb 05 13:47	26° <b>≈</b> 52'15		max. Earth dist.	1742 Aug 17 17:50	24° <b>Ω</b> 17'43	6.38135 AU
				morning rise	1742 Aug 30 18:43	27° <b>Ω</b> 08'00	
conjunction	1737 Feb 18 12:42	29° <b>≈</b> 59'04	-0°52'12		1742 Sep 13 04:03	O° My	
minimum elong	1737 Feb 18 12:40	29° <b>≈</b> 59'03	0°52'13	retrograde	1742 Dec 30 01:23	14° <b>m</b> 14'28	
	1737 Feb 18 14:15	0° <b>∀</b>		opposition	1743 Feb 28 06:18	9° <b>m</b> ∤18'05	1°25'03
max. Earth dist.	1737 Feb 18 12:38	29° <b>≈</b> 59'01	5.99593 AU	min. Earth dist.	1743 Feb 28 10:21	9° Mp 16′46	4.42298 AU
morning rise	1737 Mar 03 13:51	3° <b>∺</b> 07'18		direct	1743 May 01 03:28	4° Mp 15′12	
retrograde	1737 Jul 13 05:46	23° <b>)</b> 30′46		evening set	1743 Sep 04 23:35	21°M 51'12	
opposition	1737 Sep 11 07:25	18° <b>)</b> 30′26		max. Earth dist.	1743 Sep 17 05:54	24° <b>m</b> 29'53	6.44764 AU
min. Earth dist.	1737 Sep 10 20:10		3.96396 AU				
direct	1737 Nov 08 16:32	13° <b>¥</b> 36'51		conjunction	1743 Sep 18 01:56	24° <b>m</b> 40'43	1°05'01
	1738 Feb 28 05:48	0° <b>Υ</b>		minimum elong	1743 Sep 18 01:55	24° <b>m</b> 40'43	1°05'00
evening set	1738 Mar 14 03:12	3° <b>Y</b> 18′16		morning rise	1743 Oct 01 01:24	27° m 28'49	
	1520.14 25 00.04	60000000	1005146		1743 Oct 12 21:39	0∘ <b>⊽</b>	
conjunction	1738 Mar 27 09:24	6° <b>Y</b> 30′24		retrograde	1744 Jan 29 04:39	14° <b>£</b> 14'02	100 (145
minimum elong	1738 Mar 27 09:24	6° <b>Y</b> 30′24		opposition	1744 Mar 29 17:18	9° <b>£</b> 20'34	1°36'45
max. Earth dist.	1738 Mar 28 16:21	6° <b>Y</b> 49'07	5.95292 AU	min. Earth dist.	1744 Mar 30 14:59	9° <b>£</b> 13'36	4.45528 AU
morning rise	1738 Apr 09 18:55	9° <b>Ƴ</b> 44'14		direct	1744 May 31 08:53	4° <b>£</b> 18'14	
. 1	1738 Aug 04 17:21	0°8		evening set	1744 Oct 04 19:37	21° <b>£</b> 49'00	C 44054 ATT
retrograde	1738 Aug 20 04:09	0° <b>8</b> 23'37		max. Earth dist.	1744 Oct 15 22:30	24° <b>£</b> 13'47	6.44254 AU
	1738 Sep 04 14:32	30° <b>Ŗ</b> ♈	1024115	· · · · · · · · · ·	1744 0-4 17 15-20	249 0 26110	1904100
opposition min. Earth dist.	1738 Oct 18 22:16 1738 Oct 17 16:44	25° <b>Y</b> 19'47 25° <b>Y</b> 29'47	3.96663 AU	conjunction minimum elong	1744 Oct 17 15:38 1744 Oct 17 15:39	24° <b>£</b> 36'10 24° <b>£</b> 36'11	1°04'00 1°04'00
direct	1738 Dec 15 18:51	23 <b>1</b> 29 47 20° <b>Y</b> 24'47	3.90003 AU	morning rise	1744 Oct 17 13:39 1744 Oct 30 09:09	24 <b>⊆</b> 3011 27° <b>⊆</b> 22'12	1 04 00
direct	1739 Mar 06 22:39	0° <b>8</b>		morning rise	1744 Oct 30 09:09 1744 Nov 11 15:38	0°M	
evening set	1739 Mar 00 22:39 1739 Apr 20 15:51	10° <b>8</b> 01'05		retrograde	1744 Nov 11 13.38 1745 Feb 27 21:00	14°M14'32	
evening set	1739 Apr 20 13.31	10 00103		opposition	1745 Apr 29 16:45	9°M22'31	1°22'46
conjunction	1739 May 04 05:56	13° <b>8</b> 14'38	-0°53'32	min. Earth dist.	1745 May 01 02:03	9°M11'54	4.41360 AU
minimum elong	1739 May 04 05:58	13° <b>8</b> 14'39		direct	1745 Jul 01 10:06	4°M21'35	4.41300 /10
max. Earth dist.	1739 May 06 10:39	13° <b>8</b> 45'58			1745 Oct 01 21:05	15° <b>™</b>	
	1739 May 11 15:21	15° <b>8</b>		evening set	1745 Nov 04 09:15	22°M04'01	
morning rise	1739 May 17 22:31	16° <b>8</b> 29'20		max. Earth dist.	1745 Nov 15 00:30	24°M25'19	6.36686 AU
5 5	1739 Jul 20 10:17	0°П					
retrograde	1739 Sep 25 14:53	6° <b>Ⅱ</b> 34'10		conjunction	1745 Nov 17 01:47	24°M52'42	0°45'31
min. Earth dist.	1739 Nov 22 17:18	1° <b>Ⅱ</b> 40'49	4.05317 AU	minimum elong	1745 Nov 17 01:49	24°M52'43	0°45'31
opposition	1739 Nov 24 03:46	1° <b>Ⅱ</b> 29'04		morning rise	1745 Nov 29 16:24	27° <b>M</b> 40'41	
11	1739 Dec 05 05:12	30° <b>₹</b> 8		C	1745 Dec 10 06:36	0° <b>⊼</b> ¹	
direct	1740 Jan 21 11:04	26° <b>8</b> 31'15		retrograde	1746 Apr 01 01:39	15° <b>₹</b> '08'00	
	1740 Mar 08 09:26	$\Pi^{\circ}$		opposition	1746 Jun 01 00:46	10° <b>∡</b> 15'54	0°45'13
evening set	1740 May 26 18:36	15° <b>Ⅱ</b> 39'03		min. Earth dist.	1746 Jun 02 12:48	10° <b>₹</b> '04'26	4.30779 AU
-	•			direct	1746 Aug 02 03:36	5° <b>∡</b> 17'09	
conjunction	1740 Jun 09 12:45	18° <b>Ⅱ</b> 49'05	-0°21'24	evening set	1746 Dec 05 15:26	23° <b>∡</b> ¹26'52	
minimum elong	1740 Jun 09 12:46	18° <b>Ⅱ</b> 49'06	0°21'25	max. Earth dist.	1746 Dec 16 08:43	25° <b>₹</b> 53'42	6.23918 AU
max. Earth dist.	1740 Jun 11 17:29	19° <b>Ⅱ</b> 19′28	6.11788 AU				
morning rise	1740 Jun 23 07:54	21° <b>Ⅱ</b> 59′20		conjunction	1746 Dec 18 07:17	26° <b>₹</b> 20'22	0°13'19
	1740 Jul 29 22:52	0ංම		minimum elong	1746 Dec 18 07:18	26° <b>х</b> 20′23	0°13'19
retrograde	1740 Oct 28 14:55	10° <b>©</b> 59'02		behind sun begin	1746 Dec 18 02:34	26° <b>√</b> 17'41	
min. Earth dist.	1740 Dec 26 01:19	6° <b>©</b> 05'17	4.18875 AU	behind sun end	1746 Dec 18 12:02	26° <b>₹</b> 23'04	
opposition	1740 Dec 27 06:12	5° <b>9</b> 55'30	-0°03'08	morning rise	1746 Dec 30 22:52	29° <b>х</b> 13′57	

conjunction	1758 Dec 22 18:58	0° <b>る</b> 59'30	0°08'06	morning rise	1764 Jul 03 11:54	1° <b>©</b> 52'23	
minimum elong	1758 Dec 22 18:59	0° <b>る</b> 59'30	0°08'05	asc. node	1764 Oct 07 21:32	19° <b>©</b> 07'33	
behind sun begin	1758 Dec 22 11:52	0° <b>ಕ</b> 55'26		retrograde	1764 Nov 06 19:14	20° <b>©</b> 33'07	
behind sun end	1758 Dec 23 02:06	1°る03'35		min. Earth dist.	1765 Jan 04 09:44	15° <b>©</b> 39'03	4.22835 AU
morning rise	1759 Jan 04 10:48	3°₹54'05		opposition	1765 Jan 05 11:31	15° <b>©</b> 30'21	0°12'38
desc. node	1759 Mar 17 02:55	18° <b>る</b> 10'39		direct	1765 Mar 06 05:09	10° <b>5</b> 29'06	
retrograde	1759 May 10 12:12	22° <b>る</b> 29'32		evening set	1765 Jul 11 00:49	28°\$548'53	
opposition	1759 Jul 10 07:01	17° <b>る</b> 35'25	-0°16'28		1765 Jul 16 09:43	$0^{\circ}\Omega$	
min. Earth dist.	1759 Jul 11 09:11	17°る27'00	4.14473 AU				
direct	1759 Sep 09 00:35	12° <b>る</b> 39'27		conjunction	1765 Jul 24 15:38	1° <b>Ω</b> 49'35	0°26'44
	1760 Jan 05 14:20	0° <b>≈</b>		minimum elong	1765 Jul 24 15:36	1° <b>Ω</b> 49'34	0°26'44
evening set	1760 Jan 12 05:09	1°≈32'57		max. Earth dist.	1765 Jul 25 18:09	2° <b>Ω</b> 04'16	6.29919 AU
max. Earth dist.	1760 Jan 23 23:02	4° <b>≈</b> 19'44	6.07542 AU	morning rise	1765 Aug 07 05:12	4° <b>Ω</b> 49'22	
					1765 Sep 26 01:49	15° <b>Ω</b>	
conjunction	1760 Jan 25 00:02	4° <b>≈</b> 34'34	-0°20'41	retrograde	1765 Dec 08 05:05	22° <b>Ω</b> 26'54	
minimum elong	1760 Jan 25 00:02	4°≈34'33		opposition	1766 Feb 06 03:52	17° <b>Ω</b> 27'46	1°01'29
morning rise	1760 Feb 06 20:26	7°≈37'10	0 2941	min. Earth dist.	1766 Feb 05 19:18	17° <b>Ω</b> 30'36	4.36026 AU
morning rise		7 ≈37 10 15°≈		iiiii. Eartii tiist.			4.30020 AU
. 1	1760 Mar 10 06:48			1	1766 Feb 25 14:46	15°R <b>Ω</b>	
retrograde	1760 Jun 15 12:18	27°≈22'07	1000116	direct	1766 Apr 08 06:55	12° <b>Ω</b> 25'01	
opposition	1760 Aug 14 22:03	22° <b>≈</b> 24'43			1766 May 20 08:27	15° <b>Ω</b>	
min. Earth dist.	1760 Aug 15 03:45	22° <b>≈</b> 22'51	4.01536 AU		1766 Aug 12 01:46	0°Щ	
direct	1760 Oct 13 03:45	17°≈30'44		evening set	1766 Aug 13 03:10	0° <b>™</b> 13'41	
	1761 Jan 16 08:04	0° <b>∀</b>					
evening set	1761 Feb 15 10:31	7° <b>∺</b> 00'01		conjunction	1766 Aug 26 11:07	3°Mp06'58	0°54'33
				minimum elong	1766 Aug 26 11:05	3°Mp06'57	0°54'33
conjunction	1761 Feb 28 11:19	10° <b>)</b> 08'47	-0°58'17	max. Earth dist.	1766 Aug 26 10:39	3° Mp 06'43	6.40896 AU
minimum elong	1761 Feb 28 11:17	10° <b>)</b> €08'45	0°58'17	morning rise	1766 Sep 08 16:18	5° <b>m</b> 58′50	
max. Earth dist.	1761 Feb 28 19:20	10° <b>₩</b> 13'37	5.97209 AU	retrograde	1767 Jan 07 10:33	22° <b>m</b> 55′37	
morning rise	1761 Mar 13 14:38	13° <b>₩</b> 19'04		opposition	1767 Mar 08 18:35	18° Mp 00'06	1°30'47
	1761 Jun 03 01:14	$0$ ° $\Upsilon$		min. Earth dist.	1767 Mar 09 03:44	17° <b>m</b> ∕57'08	4.44167 AU
retrograde	1761 Jul 23 19:25	3° <b>Y</b> 53'56		direct	1767 May 09 22:42	12° <b>m</b> 57'12	
•	1761 Sep 13 06:32	30° <b>₹</b> ₩			1767 Sep 11 09:11	0∘ <b>⊽</b>	
opposition	1761 Sep 21 17:31	28° <b>¥</b> 52'37	-1°37'49	evening set	1767 Sep 13 15:42	0° <b>ჲ</b> 29'10	
min. Earth dist.	1761 Sep 21 01:26	28° <b>¥</b> 58′01	3.95041 AU	C	•		
direct	1761 Nov 18 21:04	23° <b>¥</b> 58'55		conjunction	1767 Sep 26 16:01	3° <b>₽</b> 17'33	1°06'30
	1762 Jan 20 01:47	0°Υ		minimum elong	1767 Sep 26 16:00	3° <b>₽</b> 17'33	1°06'30
evening set	1762 Mar 24 11:14	13° <b>Y</b> 44'13		max. Earth dist.	1767 Sep 25 12:29	3° <b>⊆</b> 02'40	6.45541 AU
evening set	1702 Mai 24 11.14	15   4415		morning rise	1767 Oct 09 13:35	6° <b>£</b> 04'36	0.43341710
agniumation	1762 Apr 06 19:54	16° <b>Ƴ</b> 57'35	1004:55	retrograde	1767 Get 09 15:33 1768 Feb 06 15:03	22° <b>£</b> 48′26	
conjunction minimum elong	•	16° <b>Y</b> 57'35		Č		22 <b>=</b> 48 20 17° <b>£</b> 55'30	1925120
U	1762 Apr 06 19:55	$10^{\circ}$ <b>Y</b> 21'03		opposition	1768 Apr 07 06:07		
max. Earth dist.	1762 Apr 08 10:47		5.95110 AU	min. Earth dist.	1768 Apr 08 08:30	17° <b>£</b> 47'03	4.45167 AU
morning rise	1762 Apr 20 07:47	20° <b>Y</b> 12'34		direct	1768 Jun 09 00:45	12° <b>£</b> 53'23	
	1762 Jun 02 10:45	0.8			1768 Oct 11 08:08	0°M	
retrograde	1762 Aug 30 13:41	10° <b>8</b> 49'50		evening set	1768 Oct 13 07:29	0°M25'37	
min. Earth dist.	1762 Oct 27 19:56		3.97722 AU	max. Earth dist.	1768 Oct 24 04:53	2°M48'02	6.42746 AU
opposition	1762 Oct 29 04:34	5° <b>8</b> 45'27	-1°27'22				
direct	1762 Dec 26 00:38	0° <b>8</b> 49'51		conjunction	1768 Oct 26 02:19	3°M12'53	1°00'28
	1763 Apr 07 19:04	15° <b>8</b>		minimum elong	1768 Oct 26 02:21	3°M12'53	1°00'27
evening set	1763 May 01 02:53	20° <b>8</b> 22'29		morning rise	1768 Nov 07 18:42	5°M59'05	
					1768 Dec 21 21:42	15° <b>™</b>	
conjunction	1763 May 14 18:38	23° <b>8</b> 35'48	-0°46'01	retrograde	1769 Mar 08 15:15	22°M58'47	
minimum elong	1763 May 14 18:40	23° <b>8</b> 35'50	0°46'01	opposition	1769 May 08 12:46	18° <b>™</b> 06'53	1°14'24
max. Earth dist.	1763 May 17 01:26	24° <b>8</b> 08'11	6.02231 AU	min. Earth dist.	1769 May 09 23:59	17° <b>™</b> 55'40	4.38778 AU
morning rise	1763 May 28 12:45	26° <b>8</b> 50'07			1769 Jun 03 23:26	15°RM	
	1763 Jun 11 04:57	$\Pi^{\circ}0$		direct	1769 Jul 10 03:27	13°M06'25	
retrograde	1763 Oct 05 09:26	16° <b>Ⅱ</b> 40'32			1769 Aug 15 06:31	15° <b>™</b>	
opposition	1763 Dec 03 22:39	11° <b>II</b> 35'33	-0°43'40		1769 Nov 08 18:59	0° <b>∡</b> ¹	
min. Earth dist.	1763 Dec 02 12:05	11° <b>Ⅱ</b> 47′20	4.08406 AU	evening set	1769 Nov 12 24:00	0° <b>∡</b> 55'52	
direct	1764 Jan 31 11:06	6° <b>Ⅱ</b> 36'55		max. Earth dist.	1769 Nov 23 13:46	3° <b>∡</b> 17'31	6.33219 AU
evening set	1764 Jun 05 22:53	25° <b>Ⅲ</b> 35'37					
<b>3</b>	=====			conjunction	1769 Nov 25 16:08	3° <b>∡</b> ¹45'45	0°37'37
conjunction	1764 Jun 19 17:16	28° <b>∏</b> 44'04	-0°10'42	minimum elong	1769 Nov 25 16:10	3° <b>х</b> 45'46	0°37'37
minimum elong	1764 Jun 19 17:16	28° <b>I</b> I44'05		morning rise	1769 Dec 08 06:45	6° <b>≯</b> ³35′08	/ - /
behind sun begin	1764 Jun 19 10:55	28° <b>I</b> I40'28	· <del>-</del>	retrograde	1770 Apr 10 11:58	24° <b>₹</b> 17'54	
behind sun end	1764 Jun 19 10:33	28° <b>I</b> I40'28		opposition	1770 Apr 10 11:38 1770 Jun 10 09:52	19° <b>х</b> 25'30	0°31'19
max. Earth dist.	1764 Jun 21 19:48	28 <b>H</b> 4/41 29° <b>H</b> 12'56	6.15512 AU	min. Earth dist.	1770 Jun 11 21:35	19° <b>х</b> 23′30′ 19° <b>х</b> 14′07	4.26615 AU
max. Darui Uist.	1764 Jun 25 06:15	29° <b>ш</b> 12 36	0.13312 AU	direct		19° <b>×</b> °1407 14° <b>×</b> <sup>7</sup> 27'22	7.20013 AU
	1/04 Juli 23 00.13	∨ ي		uncet	1770 Aug 11 06:04	14 X.7/27	

	1770 Dec 02 06:36	0°ಕ			1776 Jun 08 18:27	0° <b>©</b>	
evening set	1770 Dec 02 00:50	2° <b>ප්</b> 48'31		evening set	1776 Jun 10 23:57	0° <b>©</b> 30'11	
max. Earth dist.	1770 Dec 25 12:58	5°る19'00	6.19414 AU	evening sec	1770 3411 10 23.37	0 3011	
man. Darun dist.	1770 200 20 12.00	5 617 00	0.19 11 1110	conjunction	1776 Jun 24 17:56	3° <b>5</b> 37'29	-0°05'15
conjunction	1770 Dec 27 08:20	5°₹44'05	0°02'48	minimum elong	1776 Jun 24 17:57	3°537'29	0°05'15
minimum elong	1770 Dec 27 08:20	5°₹44'05	0°02'48	behind sun begin	1776 Jun 24 09:52	3°932'55	
behind sun begin	1770 Dec 27 00:22	5° <b>る</b> 39'30		behind sun end	1776 Jun 25 02:02	3°542'04	
behind sun end	1770 Dec 27 16:18	5° <b>る</b> 48'40		max. Earth dist.	1776 Jun 26 16:28	4°ഇ03'55	6.17806 AU
morning rise	1771 Jan 09 00:51	8° <b>る</b> 39'56		morning rise	1776 Jul 08 12:17	6°5944'36	
desc. node	1771 Jan 24 20:04	12° <b>る</b> 15'12		asc. node	1776 Aug 17 11:24	15° <b>©</b> 18'20	
retrograde	1771 May 15 15:16	27° <b>る</b> 26'36		retrograde	1776 Nov 11 06:54	25° <b>©</b> 14'53	
opposition	1771 Jul 15 08:42	22° <b>る</b> 32'05	-0°24'32	min. Earth dist.	1777 Jan 09 01:04	20°520'23	4.25034 AU
min. Earth dist.	1771 Jul 16 07:43	22° <b>る</b> 24'39	4.12083 AU	opposition	1777 Jan 10 00:22	20°©12'32	0°20'19
direct	1771 Sep 13 20:10	17° <b>る</b> 36'27		direct	1777 Mar 10 23:23	15° <b>©</b> 10'57	
	1771 Dec 19 04:32	0° <b>≈</b>			1777 Jun 29 23:23	$0$ $^{\circ}\Omega$	
evening set	1772 Jan 17 02:23	6° <b>≈</b> 36'52		evening set	1777 Jul 15 18:26	3° <b>Ω</b> 25′09	
conjunction	1772 Jan 29 22:08	9° <b>≈</b> 39'43	-0°34'37	conjunction	1777 Jul 29 08:33	6° <b>Ω</b> 24'41	0°31'24
minimum elong	1772 Jan 29 22:06	9°≈39'42	0°34'37	minimum elong	1777 Jul 29 08:31	6°Ω24'40	0°31'24
max. Earth dist.	1772 Jan 29 03:01	9° <b>≈</b> 28'19	6.05458 AU	max. Earth dist.	1777 Jul 30 08:18	6° <b>Ω</b> 37'48	6.31869 AU
morning rise	1772 Feb 11 19:16	12°≈43'36	0.00 100 110	morning rise	1777 Aug 11 20:52	9° <b>Ω</b> 23'09	0.51005110
	1772 Feb 21 11:23	15° <b>≈</b>			1777 Sep 07 05:49	15° <b>Ω</b>	
	1772 May 10 09:22	0° <b>)</b> €		retrograde	1777 Dec 12 11:19	26°Ω53'08	
retrograde	1772 Jun 20 23:26	2° <b>)</b> 38′20		opposition	1778 Feb 10 11:24	21° <b>Ω</b> 54'35	1°06'55
Ü	1772 Aug 01 19:56	30° <b>R</b> ≈		min. Earth dist.	1778 Feb 10 05:02	21° <b>Ω</b> 56'41	4.37601 AU
opposition	1772 Aug 20 06:41	27° <b>≈</b> 40'24	-1°15'17	direct	1778 Apr 12 18:06	16° <b>Ω</b> 51'46	
min. Earth dist.	1772 Aug 20 09:31	27° <b>≈</b> 39'28	3.99981 AU		1778 Jul 26 16:46	0° <b>m</b> )	
direct	1772 Oct 18 08:03	22° <b>≈</b> 46'37		evening set	1778 Aug 17 14:47	4° m/ 37′02	
	1772 Dec 26 17:24	0° <b>∀</b>		•	•		
evening set	1773 Feb 20 15:28	12° <b>)</b> 20′00		conjunction	1778 Aug 30 21:28	7° <b>m</b> 29'25	0°57'15
-				minimum elong	1778 Aug 30 21:26	7° <b>™</b> 29'24	0°57'15
conjunction	1773 Mar 05 17:12	15° <b>)</b> 29'37	-1°00'46	max. Earth dist.	1778 Aug 30 15:15	7° <b>m</b> 26′03	6.41970 AU
minimum elong	1773 Mar 05 17:10	15° <b>∺</b> 29'36	1°00'45	morning rise	1778 Sep 13 01:40	10° Mp 20′26	
max. Earth dist.	1773 Mar 06 05:41	15° <b>∺</b> 37'10	5.96318 AU	retrograde	1779 Jan 11 16:23	27° <b>m</b> 13'48	
morning rise	1773 Mar 18 21:51	18° <b>)</b> 40′51		opposition	1779 Mar 13 00:26	22° <b>m</b> 18'43	1°32'56
	1773 May 08 08:41	$0$ ° $\Upsilon$		min. Earth dist.	1779 Mar 13 13:08	22° Mp 14'36	4.44702 AU
retrograde	1773 Jul 29 05:44	9° <b>Ƴ</b> 19′03		direct	1779 May 14 08:02	17° <b>m</b> 15'49	
min. Earth dist.	1773 Sep 26 06:58	4° <b>Y</b> 23′58	3.94944 AU		1779 Aug 26 03:10	0∘ <b>ত</b>	
opposition	1773 Sep 27 03:19	4° <b>Ƴ</b> 17'09	-1°38'45	evening set	1779 Sep 17 23:12	4° <b>≙</b> 47'05	
	1773 Nov 05 06:57	30° <b>₹</b> ₩					
direct	1773 Nov 24 03:48	29° <b>∺</b> 23'16		conjunction	1779 Sep 30 22:48	7° <b>£</b> 35′10	1°06'43
	1773 Dec 13 01:45	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	1779 Sep 30 22:48	7° <b>£</b> 35′10	1°06'43
evening set	1774 Mar 29 20:02	19° <b>Ƴ</b> 07'48		max. Earth dist.	1779 Sep 29 16:46	7° <b>≏</b> 18'55	6.45488 AU
		••		morning rise	1779 Oct 13 19:23	10° <b>≙</b> 21'53	
conjunction	1774 Apr 12 05:46	22° <b>Y</b> 21′20		retrograde	1780 Feb 10 20:45	27° <b>≏</b> 06'41	
minimum elong	1774 Apr 12 05:48	22° <b>Y</b> 21′21		opposition	1780 Apr 11 13:37	22° <b>≙</b> 14'00	1°33'52
max. Earth dist.	1774 Apr 14 00:14	22° <b>Y</b> 46'55	5.95785 AU	min. Earth dist.	1780 Apr 12 16:57	22° <b>£</b> 05'14	4.44552 AU
morning rise	1774 Apr 25 18:39	25° <b>Y</b> 36′26		direct	1780 Jun 13 07:13	17° <b>£</b> 12'05	
	1774 May 14 11:19	0°8		. ,	1780 Sep 25 02:34	0°M	
. 1	1774 Aug 09 04:53	15° <b>8</b>		evening set	1780 Oct 17 14:22	4°M46'21	C 41 CO7 ATT
retrograde	1774 Sep 04 18:31	16° <b>8</b> 08'36		max. Earth dist.	1780 Oct 28 09:41	7° <b>M</b> 08'04	6.41607 AU
i D4h Ji.4	1774 Oct 01 03:19	15°R <b>8</b>	2 000/2 AII	· · · · · · · · · ·	1700 0-4 20 00-26	79 <b>m</b> 22140	0050110
min. Earth dist.	1774 Nov 02 00:05 1774 Nov 03 09:23	11° <b>8</b> 03'52	3.99062 AU	conjunction minimum elong	1780 Oct 30 08:36 1780 Oct 30 08:38	7°M33'49 7°M33'50	0°58'10 0°58'10
opposition direct	1774 Nov 03 09.23 1774 Dec 31 07:37	6° <b>8</b> 07'48	-1 22 44	morning rise	1780 Nov 12 00:34	10°M20'19	0 38 10
direct	1774 Dec 31 07:37 1775 Mar 19 06:51	15° <b>8</b>		morning rise	1780 Dec 03 20:17	10 1162019 15°M	
evening set	1775 May 06 09:50	25° <b>8</b> 35'28		retrograde	1780 Dec 03 20.17 1781 Mar 13 04:32	27°M25'07	
Svening set	1775 Way 00 09.50	25 055 20		opposition	1781 May 13 01:12	22°M33'20	1°09'30
conjunction	1775 May 20 02:21	28° <b>8</b> 48'15	-0°41'40	min. Earth dist.	1781 May 14 14:00	22°M21'37	4.37179 AU
minimum elong	1775 May 20 02:21	28° <b>8</b> 48'17		direct	1781 Jul 14 14:51	17°MJ33'11	1.5/1// AU
max. Earth dist.	1775 May 20 02:24 1775 May 22 11:07	_	6.04102 AU		1781 Oct 23 05:56	0°×7	
Julian William	1775 May 25 04:30	0°II		evening set	1781 Nov 17 09:29	5° <b>×7</b> 27'04	
morning rise	1775 Jun 02 20:46	2° <b>I</b> I01'48		max. Earth dist.	1781 Nov 27 22:30	7° <b>₹</b> 148'57	6.31290 AU
retrograde	1775 Oct 10 06:01	21° <b>II</b> 41'51					
min. Earth dist.	1775 Dec 07 09:04	16° <b>Ⅱ</b> 48'40	4.10588 AU	conjunction	1781 Nov 30 01:30	8° <b>҂</b> 17'40	0°33'14
opposition	1775 Dec 08 19:13	16° <b>Ⅱ</b> 37'03		minimum elong	1781 Nov 30 01:32	8° <b>∡</b> 17'41	0°33'13
direct	1776 Feb 05 11:13	11° <b>Ⅲ</b> 38'00		morning rise	1781 Dec 12 16:18	11° <b>∡</b> *07'54	
				<b>5</b> -			

retrograde	1782 Apr 15 07:25	28° <b>х</b> 59'13		retrograde	1787 Oct 14 21:18	26° <b>Ⅱ</b> 33'21	
opposition	1782 Jun 15 05:17	24°×706'39	0°23'51	min. Earth dist.	1787 Dec 12 02:37	21° <b>II</b> 40'01	4.12630 AU
min. Earth dist.	1782 Jun 16 14:57	23° <b>×</b> 55'53	4.24499 AU	opposition	1787 Dec 12 02:37	21° <b>II</b> 28'46	
direct	1782 Aug 15 20:13	19° <b>₹</b> 08'55		direct	1788 Feb 10 07:43	16° <b>Ⅱ</b> 29'19	
	1782 Nov 14 19:18	0°る			1788 May 22 23:29	0°5	
desc. node	1782 Dec 04 00:02	4° <b>る</b> 07'40		evening set	1788 Jun 15 20:58	5° <b>©</b> 15'52	
evening set	1782 Dec 19 06:47	7° <b>る</b> 35'53		asc. node	1788 Jun 28 07:09	8°904'15	
max. Earth dist.	1782 Dec 30 08:23	10° <b>ට</b> 09'41	6.17313 AU				
				conjunction	1788 Jun 29 14:51	8° <b>©</b> 22'11	0°00'08
conjunction	1782 Dec 31 23:32	10°る32'27	-0°02'45	minimum elong	1788 Jun 29 14:51	8° <b>©</b> 22'11	0°00'07
minimum elong	1782 Dec 31 23:33	10°る32'27	0°02'45	behind sun begin	1788 Jun 29 06:40	8°©17'34	
behind sun begin	1782 Dec 31 15:34	10° <b>る</b> 27'50		behind sun end	1788 Jun 29 23:02	8°\$26'47	
behind sun end	1783 Jan 01 07:31	10° <b>る</b> 37'04		max. Earth dist.	1788 Jul 01 11:10	8°547'15	6.19843 AU
morning rise	1783 Jan 13 16:26	13° <b>る</b> 29'24		morning rise	1788 Jul 13 08:29	11° <b>©</b> 28'07	
C	1783 Apr 10 16:58	0° <b>≈</b>		retrograde	1788 Nov 15 16:57	29°5649'20	
retrograde	1783 May 20 20:35	2° <b>≈</b> 26'02		opposition	1789 Jan 14 10:04	24°5947'33	0°27'36
	1783 Jun 30 07:59	30°Ŗ₹		min. Earth dist.	1789 Jan 13 13:22	24°\$54'31	4.26885 AU
opposition	1783 Jul 20 11:48	27° <b>ප</b> 31'10	-0°32'32	direct	1789 Mar 15 13:22	19° <b>©</b> 45'46	
min. Earth dist.	1783 Jul 21 08:50	27° <b>る</b> 24'22	4.10182 AU		1789 Jun 12 11:27	$0^{\circ}\Omega$	
direct	1783 Sep 18 19:00	22° <b>る</b> 35'57		evening set	1789 Jul 20 09:20	7° <b>Ω</b> 55'44	
	1783 Nov 29 07:24	0° <b>≈</b>					
evening set	1784 Jan 22 00:08	11° <b>≈</b> 41'24		conjunction	1789 Aug 02 22:29	10° <b>Ω</b> 54'16	0°35'45
				minimum elong	1789 Aug 02 22:27	10° <b>Ω</b> 54'15	0°35'44
conjunction	1784 Feb 03 20:25	14° <b>≈</b> 45'11	-0°39'19	max. Earth dist.	1789 Aug 03 17:02	11° <b>Ω</b> 04'28	6.33390 AU
minimum elong	1784 Feb 03 20:23	14° <b>≈</b> 45′10	0°39'19	morning rise	1789 Aug 16 09:56	13° <b>Ω</b> 51'43	
max. Earth dist.	1784 Feb 03 05:00	14° <b>≈</b> 35'58	6.03934 AU		1789 Aug 21 15:31	15° <b>Ω</b>	
	1784 Feb 04 21:13	15° <b>≈</b>			1789 Nov 18 07:29	0° <b>m</b>	
morning rise	1784 Feb 16 18:33	17° <b>≈</b> 50'08		retrograde	1789 Dec 16 16:34	1° <b>m</b> 15'55	
-	1784 Apr 12 10:55	0° <b>)</b> €		-	1790 Jan 13 21:53	30°₽ <b>Ω</b>	
retrograde	1784 Jun 26 06:50	7° <b>升</b> 52′21		opposition	1790 Feb 14 17:26	26° <b>Ω</b> 17'51	1°11'52
opposition	1784 Aug 25 14:06	2° <b>升</b> 53'52	-1°20'40	min. Earth dist.	1790 Feb 14 13:57	26° <b>Ω</b> 19'00	4.38719 AU
min. Earth dist.	1784 Aug 25 12:19	2° <b>) (</b> 54′27	3.99025 AU	direct	1790 Apr 17 03:35	21° <b>Ω</b> 14'56	
	1784 Sep 18 03:18	30°R <b>≈</b>			1790 Jul 08 17:52	O° Mp	
direct	1784 Oct 23 10:35	28° <b>≈</b> 00′15		evening set	1790 Aug 22 00:31	8° <b>m</b> 58'13	
	1784 Nov 27 08:40	0° <b>)</b> €					
evening set	1785 Feb 25 19:04	17° <b>) (</b> 35′41		conjunction	1790 Sep 04 06:21	11° <b>m</b> 49'57	0°59'34
				minimum elong	1790 Sep 04 06:20	11° <b>m</b> 49'56	0°59'35
conjunction	1785 Mar 10 21:47	20° <b>)</b> 45′52	-1°02'43	max. Earth dist.	1790 Sep 03 21:41	11° <b>m</b> 45'15	6.42614 AU
minimum elong	1785 Mar 10 21:46	20° <b>)</b> 45′52	1°02'43	morning rise	1790 Sep 17 09:19	14° <b>m</b> 40'15	
max. Earth dist.	1785 Mar 11 15:32	20° <b>)</b> 56'38	5.96008 AU		1790 Dec 15 08:52	0∘ <b>ত</b>	
morning rise	1785 Mar 24 03:25	23° <b>) €</b> 57'42		retrograde	1791 Jan 15 20:35	1° <b>≏</b> 31'40	
	1785 Apr 18 21:45	$0$ ° $\Upsilon$			1791 Feb 16 07:52	30°R, <b>™</b> )	
retrograde	1785 Aug 03 13:13	14° <b>Ƴ</b> 36'53		opposition	1791 Mar 17 05:57	26° № 37'01	1°34'33
min. Earth dist.	1785 Oct 01 11:30	9° <b>Ƴ</b> 41'57	3.95324 AU	min. Earth dist.	1791 Mar 17 20:22	26° Mp32′21	4.44863 AU
opposition	1785 Oct 02 09:49	9° <b>Ƴ</b> 34'26	-1°38'50	direct	1791 May 18 14:38	21°M/34'15	
direct	1785 Nov 29 09:55	4° <b>Ƴ</b> 40′21			1791 Aug 08 02:36	0∘ <b>ত</b>	
evening set	1786 Apr 04 01:28	24° <b>Ƴ</b> 22'42		evening set	1791 Sep 22 06:30	9° <b>≏</b> 05'44	
				max. Earth dist.	1791 Oct 03 19:09	11° <b>≏</b> 35'11	6.45151 AU
conjunction	1786 Apr 17 12:19	27° <b>Ƴ</b> 36′15	-1°01'55				
minimum elong	1786 Apr 17 12:21	27° <b>Ƴ</b> 36′16	1°01'54	conjunction	1791 Oct 05 05:05	11° <b>≏</b> 53'35	1°06'33
max. Earth dist.	1786 Apr 19 10:50	28° <b>Ƴ</b> 04'10	5.96803 AU	minimum elong	1791 Oct 05 05:05	11° <b>≙</b> 53'35	1°06'32
	1786 Apr 27 12:08	$9^{\circ}$ 8		morning rise	1791 Oct 18 01:02	14° <b>≙</b> 40'09	
morning rise	1786 May 01 02:05	0° <b>8</b> 51'16			1792 Jan 15 10:59	0°M	
	1786 Jul 06 07:37	15° <b>8</b>		retrograde	1792 Feb 15 05:34	1°M26'42	
retrograde	1786 Sep 09 19:36	21° <b>8</b> 17'04			1792 Mar 17 00:41	30° <b>₹</b> Ω	
min. Earth dist.	1786 Nov 06 23:48	16° <b>8</b> 23'49	4.00604 AU	opposition	1792 Apr 15 21:45	26° <b>≙</b> 34'13	1°31'53
opposition	1786 Nov 08 09:53	16° <b>8</b> 12'13	-1°17'35	min. Earth dist.	1792 Apr 17 03:26	26° <b>£</b> 24'43	4.43753 AU
	1786 Nov 17 08:16	15° <b>₹</b> 8		direct	1792 Jun 17 16:15	21° <b>≏</b> 32'28	
direct	1787 Jan 05 09:22	11° <b>8</b> 15'48			1792 Sep 07 01:18	$0^{\circ}$ M	
	1787 Feb 22 20:00	15° <b>8</b>		evening set	1792 Oct 21 21:23	9° <b>M</b> 08'57	
	1787 May 08 18:48	$\Pi^{\circ}0$		max. Earth dist.	1792 Nov 01 15:54	11°M30'39	6.40410 AU
evening set	1787 May 11 12:37	0° <b>Ⅱ</b> 38'13					
				conjunction	1792 Nov 03 15:18	11°M56'44	0°55'31
conjunction	1787 May 25 05:28	3° <b>∏</b> 50′19		minimum elong	1792 Nov 03 15:20	11°M56'45	0°55'32
minimum elong	1787 May 25 05:30			morning rise	1792 Nov 16 06:51	14°M43'34	
max. Earth dist.	1787 May 27 12:21	4° <b>Ⅱ</b> 22'25	6.05998 AU		1792 Nov 17 12:54	15° <b>M</b>	
morning rise	1787 Jun 08 00:20	7° <b>Ⅱ</b> 03'08			1793 Feb 10 07:01	0°⊀	

retrograde	1793 Mar 17 16:12	1° <b>∡</b> 753′28		min. Earth dist.	1798 Nov 11 22:34	21° <b>8</b> 30'18	4.01815 AU
ronogrado	1793 Apr 22 08:44	30°RML		opposition	1798 Nov 13 09:27	21° <b>8</b> 18'25	
opposition	1793 May 17 14:15	27°ML01'36	1°04'09	direct	1799 Jan 10 10:46	16° <b>8</b> 21'33	
min. Earth dist.	1793 May 19 02:05	26°M50'11	4.35658 AU		1799 Apr 21 15:31	0°II	
direct	1793 Jul 19 00:25	22°M01'46		evening set	1799 May 16 15:46	5° <b>Ⅱ</b> 40'16	
	1793 Oct 04 16:55	0° <b>∡</b> ″			•		
evening set	1793 Nov 21 18:57	9° <b>∡</b> 59′21		conjunction	1799 May 30 09:17	8° <b>Ⅱ</b> 51'55	-0°32'21
max. Earth dist.	1793 Dec 02 09:30	12° <b>∡</b> ¹22'41	6.29564 AU	minimum elong	1799 May 30 09:19	8° <b>Ⅱ</b> 51'56	0°32'21
				max. Earth dist.	1799 Jun 01 16:16	9° <b>Ⅱ</b> 23'57	6.07564 AU
conjunction	1793 Dec 04 10:50	12° <b>₹</b> ′50′35	0°28'38	morning rise	1799 Jun 13 04:15	12° <b>Ⅱ</b> 04'05	
minimum elong	1793 Dec 04 10:52	12° <b>∡</b> ′50′36	0°28'37		1799 Sep 19 18:39	$0$ $\circ$ $\odot$	
morning rise	1793 Dec 17 01:42	15° <b>∡</b> '41'33		retrograde	1799 Oct 19 15:34	1°525'42	
	1794 Mar 01 01:52	0°ಕ			1799 Nov 18 04:18	30° <b>Ŗ</b> Ⅱ	
retrograde	1794 Apr 20 04:24	3° <b>ප්</b> 40'38		min. Earth dist.	1799 Dec 16 21:29	26° <b>Ⅲ</b> 32′03	4.14365 AU
	1794 Jun 10 12:30	30°₽ <b>⋌</b>		opposition	1799 Dec 18 04:43	26° <b>Ⅱ</b> 21′26	-0°20'18
opposition	1794 Jun 20 00:59	28° <b>∡</b> ¹47'48	0°16'11	direct	1800 Feb 15 04:45	21° <b>Ⅱ</b> 21'37	
min. Earth dist.	1794 Jun 21 10:13	28° <b>∡</b> ³37′10	4.22647 AU		1800 May 05 01:59	$0$ $\circ$ $\odot$	
direct	1794 Aug 20 13:12	23° <b>₹</b> ′50′23		asc. node	1800 May 09 03:17	0° <b>5</b> 46'40	
desc. node	1794 Oct 13 15:32	28° <b>₹</b> 06'43		evening set	1800 Jun 21 19:26	10° <b>©</b> 03'44	
	1794 Oct 25 11:36	0°ರ					
evening set	1794 Dec 23 21:05	12° <b>る</b> 21'53		conjunction	1800 Jul 05 12:56	13° <b>©</b> 09'09	0°05'34
max. Earth dist.	1795 Jan 04 00:50	14° <b>る</b> 57'35	6.15486 AU	minimum elong	1800 Jul 05 12:56	13° <b>©</b> 09'08	0°05'35
				behind sun begin	1800 Jul 05 04:55	13° <b>©</b> 04'39	
conjunction	1795 Jan 05 14:07	15° <b>る</b> 19'20		behind sun end	1800 Jul 05 20:56	13° <b>©</b> 13'38	
minimum elong	1795 Jan 05 14:07	15° <b>る</b> 19'20	0°08'08	max. Earth dist.	1800 Jul 07 06:07	13° <b>©</b> 32'21	6.21598 AU
behind sun begin	1795 Jan 05 06:58	15° <b>⋜</b> 15'11		morning rise	1800 Jul 19 06:08	16°©14'05	
behind sun end	1795 Jan 05 21:15	15° <b>る</b> 23'29			1800 Sep 27 09:35	$0^{\circ}\Omega$	
morning rise	1795 Jan 18 07:36	18° <b>る</b> 17'16		retrograde	1800 Nov 21 02:46	4° <b>Ω</b> 27'16	
	1795 Mar 14 06:20	0° <b>≈</b>			1801 Jan 15 15:54	30° <b>₹</b> 5	
retrograde	1795 May 25 21:29	7°≈22'40		opposition	1801 Jan 19 21:30	29° <b>©</b> 25'58	0°34'51
opposition	1795 Jul 25 13:25	2° <b>≈</b> 27'19		min. Earth dist.	1801 Jan 19 02:16	29° <b>©</b> 32'26	4.28525 AU
min. Earth dist.	1795 Jul 26 06:51	2°≈21'40	4.08525 AU	direct	1801 Mar 21 04:08	24°524'00	
	1795 Aug 14 09:27	30°Ŗる			1801 May 23 09:12	0° <b>N</b>	
direct	1795 Sep 23 15:01	27°₹32'22		evening set	1801 Jul 26 02:06	12° <b>Ω</b> 30′25	
	1795 Nov 02 05:23	0° <b>≈</b>			1801 Aug 06 11:23	15° <b>Ω</b>	
	1796 Jan 19 16:04	15° <b>≈</b>			1001 4 00 14 24	1.50 000100	0020150
evening set	1796 Jan 26 20:45	16° <b>≈</b> 42'06		conjunction	1801 Aug 08 14:24	15° <b>Ω</b> 28'00	0°39'59
	1706 F 1 00 17 42	10046145	0042141	minimum elong	1801 Aug 08 14:22	15° <b>Ω</b> 27'59	0°39'59
conjunction	1796 Feb 08 17:43	19° <b>≈</b> 46'45		max. Earth dist.	1801 Aug 09 05:44	15° <b>Ω</b> 36'25	6.34813 AU
minimum elong max. Earth dist.	1796 Feb 08 17:41	19° <b>≈</b> 46'44 19° <b>≈</b> 40'15	0°43'40 6.02587 AU	morning rise	1801 Aug 22 00:40 1801 Oct 19 18:40	18° <b>Ω</b> 24'24 0° <b>m</b>	
	1796 Feb 08 06:53 1796 Feb 21 16:39	19 ≈40 13 22°≈52'40	0.02387 AU	ratra arada	1801 Dec 22 00:25	5° Mp 43'07	
morning rise	1796 Feb 21 16.39 1796 Mar 23 14:49	0° <b>\</b>		retrograde opposition	1801 Dec 22 00:23 1802 Feb 20 01:41	0° Mp 45'40	1°16'31
retrograde	1796 Mai 23 14:49 1796 Jul 01 14:39	0 <b>X</b> 13° <b>¥</b> 01'41		min. Earth dist.	1802 Feb 20 01:41 1802 Feb 20 00:38	0° Mp 46'01	4.39856 AU
opposition	1796 Aug 30 19:40	8° <b>\(\)</b> 02'37	-1°25'21	iiiii. Lartii dist.	1802 Feb 25 21:03	30°RΩ	4.57650 AC
min. Earth dist.	1796 Aug 30 15:39		3.98122 AU	direct	1802 Apr 22 15:31	25° <b>Ω</b> 42'51	
direct	1796 Oct 28 13:39	3° <b>∺</b> 09'00	3.90122710	uncer	1802 Jun 17 04:32	0° m	
evening set	1797 Mar 02 21:11	22° <b>)</b> 46'33		evening set	1802 Aug 27 12:25	13° <b>m</b> ) 23'53	
evening sec	1/5/ 1/101 02 21:11	22 /( .000		evening sec	10021148 27 12.20	15 .42505	
conjunction	1797 Mar 16 01:01	25° <b>)</b> 57′24	-1°04'10	conjunction	1802 Sep 09 17:06	16° <b>m</b> 14'53	1°01'38
minimum elong	1797 Mar 16 01:00	25° <b>)</b> 57'24		minimum elong	1802 Sep 09 17:05	16° Mp 14'52	1°01'39
max. Earth dist.	1797 Mar 16 23:38		5.95629 AU	max. Earth dist.	1802 Sep 09 04:18	16° Mp 07'57	6.43395 AU
morning rise	1797 Mar 29 07:46	29° <b>)</b> €09'54		morning rise	1802 Sep 22 19:05	19° m 04'28	
C	1797 Apr 01 19:21	$0^{\circ}$ $\Upsilon$		C	1802 Nov 17 12:24	0∘ <b>⊽</b>	
retrograde	1797 Aug 08 19:19	19° <b>Ƴ</b> 50'10		retrograde	1803 Jan 21 03:20	5° <b>£</b> 53'27	
opposition	1797 Oct 07 14:35	14° <b>Ƴ</b> 47'18	-1°38'09	opposition	1803 Mar 22 13:26	0° <b>£</b> 59'12	1°35'44
min. Earth dist.	1797 Oct 06 14:02		3.95540 AU	min. Earth dist.	1803 Mar 23 05:50	0° <b>£</b> 53'53	4.45293 AU
direct	1797 Dec 04 12:23	9° <b>Υ</b> 53'00			1803 Mar 30 05:37	30°R, Mp	
evening set	1798 Apr 09 06:19	29° <b>Ƴ</b> 34'09		direct	1803 May 24 00:16	25° m 56'34	
-	1798 Apr 11 01:41	0°8			1803 Jul 17 10:00	0∘ <del>⊽</del>	
	-			evening set	1803 Sep 27 14:39	13° <b>≏</b> 27'11	
conjunction	1798 Apr 22 18:03	2° <b>8</b> 47'47	-0°59'43	max. Earth dist.	1803 Oct 09 02:15	15° <b>≏</b> 56'06	6.45216 AU
minimum elong	1798 Apr 22 18:05	2° <b>8</b> 47'49	0°59'43				
max. Earth dist.	1798 Apr 24 17:16	3° <b>8</b> 16'04	5.97563 AU	conjunction	1803 Oct 10 12:32	16° <b>≏</b> 14'42	1°06'04
morning rise	1798 May 06 08:55	6° <b>8</b> 02'54		minimum elong	1803 Oct 10 12:32	16° <b>≏</b> 14'42	1°06'04
	1798 Jun 14 21:25	15° <b>8</b>		morning rise	1803 Oct 23 07:29	19° <b>≏</b> 00'55	
retrograde	1798 Sep 14 18:55	26° <b>8</b> 23'24			1803 Dec 18 06:57	$0^{\circ}$ M	

natra ana da	1804 Feb 20 12:23	5° <b>M</b> 47'59		opposition	1809 Oct 13 15:06	19° <b>Ƴ</b> 51'56	1026140
retrograde			1920/25			20° <b>Y</b> 00'53	
opposition	1804 Apr 21 06:38	0°M55'42	1°29'25	min. Earth dist.	1809 Oct 12 12:37		3.95466 AU
min. Earth dist.	1804 Apr 22 12:41	0°M46'06	4.43461 AU	direct	1809 Dec 10 11:43	14° <b>Y</b> 57′20	
	1804 Apr 28 14:02	30° <b>₹</b> Ω			1810 Mar 26 11:52	0° <b>8</b>	
direct	1804 Jun 23 00:46	25° <b>≏</b> 54'17		evening set	1810 Apr 15 08:17	4° <b>8</b> 38'50	
	1804 Aug 16 14:22	0°M₊					
evening set	1804 Oct 27 04:04	13°M31'09		conjunction	1810 Apr 28 21:19	7° <b>8</b> 52'50	-0°57'08
	1804 Nov 02 22:05	15°M		minimum elong	1810 Apr 28 21:21	7° <b>8</b> 52'52	0°57'09
max. Earth dist.	1804 Nov 06 20:33	15°M52'03	6.39780 AU	max. Earth dist.	1810 Apr 30 23:30	8° <b>8</b> 22'51	5.97979 AU
				morning rise	1810 May 12 13:01	11° <b>8</b> 08'09	
conjunction	1804 Nov 08 21:15	16°M18'55	0°52'39		1810 May 29 01:59	15° <b>8</b>	
minimum elong	1804 Nov 08 21:17	16°M18'56	0°52'38		1810 Aug 22 03:09	$\Pi^{\circ}0$	
morning rise	1804 Nov 21 12:32	19°M05'53		retrograde	1810 Sep 20 18:32	1° <b>Ⅱ</b> 24'49	
3	1805 Jan 14 20:00	0° <b>∡</b> 7			1810 Oct 20 02:21	30°R <b>∀</b>	
retrograde	1805 Mar 23 04:33	6° <b>√</b> 19'15		min. Earth dist.	1810 Nov 17 20:25		4.02662 AU
opposition	1805 May 23 02:27	1° <b>×</b> <sup>7</sup> 27'21	0°58'33	opposition	1810 Nov 19 06:47	26° <b>8</b> 19'45	
min. Earth dist.	1805 May 24 15:10	1°×2721	4.34704 AU	direct	1811 Jan 16 09:59	21° <b>8</b> 22'29	-1 03 30
iiiii. Eartii tiist.			4.34704 AU	direct		0° <b>I</b>	
11	1805 Jun 03 16:42	30°RM		. ,	1811 Apr 03 15:36		
direct	1805 Jul 24 11:57	26°M27'49		evening set	1811 May 22 17:27	10° <b>Ⅱ</b> 38'55	
	1805 Sep 12 07:20	0° <b>∡</b> ¹				• • • • • • •	
evening set	1805 Nov 27 02:24	14° <b>∡</b> 27'17		conjunction	1811 Jun 05 11:24	13° <b>Ⅱ</b> 50'14	
max. Earth dist.	1805 Dec 07 17:44	16° <b>₰</b> 751'27	6.28366 AU	minimum elong	1811 Jun 05 11:26	13° <b>Ⅱ</b> 50'15	
				max. Earth dist.	1811 Jun 07 17:59	14° <b>Ⅱ</b> 21'55	6.08772 AU
conjunction	1805 Dec 09 18:17	17° <b>∡</b> 18'58	0°24'00	morning rise	1811 Jun 19 06:45	17° <b>Ⅱ</b> 01'58	
minimum elong	1805 Dec 09 18:18	17° <b>∡</b> 18'59	0°24'01		1811 Aug 20 15:27	$0$ $\circ$ $\odot$	
morning rise	1805 Dec 22 09:09	20° <b>∡</b> 10′27		retrograde	1811 Oct 25 06:34	6°\$\$16'12	
-	1806 Feb 06 22:43	0°ප		opposition	1811 Dec 23 20:45	1°912'10	-0°12'25
retrograde	1806 Apr 25 19:26	8° <b>る</b> 15'39		min. Earth dist.	1811 Dec 22 13:30	1°522'47	4.15810 AU
opposition	1806 Jun 25 17:27	3° <b>る</b> 22'32	0°08'42		1812 Jan 01 19:40	30°R <b>Ⅱ</b>	
min. Earth dist.	1806 Jun 27 00:43	3° <b>₹</b> 12'31	4.21276 AU	direct	1812 Feb 20 23:00	26° <b>Ⅱ</b> 11'58	
min. Burur dist.	1806 Jul 24 18:51	30°R. <b>✓</b>	21270110	asc. node	1812 Mar 19 11:18	27° <b>I</b> I24'40	
direct	1806 Aug 26 01:23	28° <b>×</b> 125'28		use. Houe	1812 Apr 11 02:21	0°9	
desc. node	1806 Aug 26 12:35	28° 🖈 25'29		evening set	1812 Jun 26 17:24	14°950'28	
desc. node	-	20 x 23 29		evening set	1012 Juli 20 17.24	14 930 28	
	1806 Sep 27 03:19					_	
	100 CD 20 00 04	170 - 700112		·	1010 T 1 10 10 21		0010140
evening set	1806 Dec 29 08:04	17°る00'13	C 1 40 40 A T I	conjunction	1812 Jul 10 10:31	17°955'01	0°10'49
evening set max. Earth dist.	1806 Dec 29 08:04 1807 Jan 09 14:22	17°る00'13 19°る37'53	6.14048 AU	minimum elong	1812 Jul 10 10:30	17° <b>©</b> 55'00	0°10'49 0°10'49
max. Earth dist.	1807 Jan 09 14:22	19° <b>る</b> 37'53		minimum elong behind sun begin	1812 Jul 10 10:30 1812 Jul 10 04:15	17°©55'00 17°©51'31	
max. Earth dist.		19° පි37'53 19° පි58'21	-0°13'14	minimum elong	1812 Jul 10 10:30	17°©55'00 17°©51'31 17°©58'30	0°10'49
max. Earth dist.  conjunction  minimum elong	1807 Jan 09 14:22	19° ට 37'53 19° ට 58'21 19° ට 58'21	-0°13'14	minimum elong behind sun begin	1812 Jul 10 10:30 1812 Jul 10 04:15 1812 Jul 10 16:45 1812 Jul 12 00:50	17°©55'00 17°©51'31 17°©58'30 18°©16'32	
max. Earth dist.	1807 Jan 09 14:22 1807 Jan 11 01:20	19°ට 37'53 19°ට 58'21 19°ට 58'21 19°ට 55'33	-0°13'14	minimum elong behind sun begin behind sun end	1812 Jul 10 10:30 1812 Jul 10 04:15 1812 Jul 10 16:45	17°955'00 17°951'31 17°958'30 18°916'32 20°958'58	0°10'49
max. Earth dist.  conjunction  minimum elong	1807 Jan 09 14:22 1807 Jan 11 01:20 1807 Jan 11 01:19	19° ට 37'53 19° ට 58'21 19° ට 58'21	-0°13'14	minimum elong behind sun begin behind sun end max. Earth dist.	1812 Jul 10 10:30 1812 Jul 10 04:15 1812 Jul 10 16:45 1812 Jul 12 00:50	17°©55'00 17°©51'31 17°©58'30 18°©16'32	0°10'49
max. Earth dist.  conjunction minimum elong behind sun begin	1807 Jan 09 14:22 1807 Jan 11 01:20 1807 Jan 11 01:19 1807 Jan 10 20:31	19°ට 37'53 19°ට 58'21 19°ට 58'21 19°ට 55'33	-0°13'14	minimum elong behind sun begin behind sun end max. Earth dist.	1812 Jul 10 10:30 1812 Jul 10 04:15 1812 Jul 10 16:45 1812 Jul 12 00:50 1812 Jul 24 03:03	17°955'00 17°951'31 17°958'30 18°916'32 20°958'58	0°10'49
max. Earth dist.  conjunction minimum elong behind sun begin behind sun end	1807 Jan 09 14:22 1807 Jan 11 01:20 1807 Jan 11 01:19 1807 Jan 10 20:31 1807 Jan 11 06:07	19° ට 37'53 19° ට 58'21 19° ට 55'21 19° ට 55'33 20° ට 01'09	-0°13'14	minimum elong behind sun begin behind sun end max. Earth dist. morning rise	1812 Jul 10 10:30 1812 Jul 10 04:15 1812 Jul 10 16:45 1812 Jul 12 00:50 1812 Jul 24 03:03 1812 Sep 04 23:27	17°955'00 17°951'31 17°958'30 18°916'32 20°958'58 0°\$\$	0°10'49
max. Earth dist.  conjunction minimum elong behind sun begin behind sun end	1807 Jan 09 14:22 1807 Jan 11 01:20 1807 Jan 11 01:19 1807 Jan 10 20:31 1807 Jan 11 06:07 1807 Jan 23 19:17	19° ට 37'53 19° ට 58'21 19° ට 58'21 19° ට 55'33 20° ට 01'09 22° ට 57'07	-0°13'14	minimum elong behind sun begin behind sun end max. Earth dist. morning rise	1812 Jul 10 10:30 1812 Jul 10 04:15 1812 Jul 10 16:45 1812 Jul 12 00:50 1812 Jul 24 03:03 1812 Sep 04 23:27 1812 Nov 25 14:06	17°S55'00 17°S51'31 17°S58'30 18°S16'32 20°S58'58 0°N 9°N04'27	0°10'49 6.23177 AU
max. Earth dist.  conjunction minimum elong behind sun begin behind sun end morning rise	1807 Jan 09 14:22 1807 Jan 11 01:20 1807 Jan 11 01:19 1807 Jan 10 20:31 1807 Jan 11 06:07 1807 Jan 23 19:17 1807 Feb 24 03:40	19°る37'53  19°る58'21 19°る58'21 19°る55'33 20°る01'09 22°る57'07 0°≈ 12°≈10'15	-0°13'14 0°13'15	minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition	1812 Jul 10 10:30 1812 Jul 10 04:15 1812 Jul 10 16:45 1812 Jul 12 00:50 1812 Jul 24 03:03 1812 Sep 04 23:27 1812 Nov 25 14:06 1813 Jan 24 08:42	17°S55'00 17°S51'31 17°S58'30 18°S16'32 20°S58'58 0°N 9°N04'27 4°N03'35	0°10'49 6.23177 AU 0°41'47
max. Earth dist.  conjunction minimum elong behind sun begin behind sun end morning rise  retrograde	1807 Jan 09 14:22 1807 Jan 11 01:20 1807 Jan 11 01:19 1807 Jan 10 20:31 1807 Jan 11 06:07 1807 Jan 23 19:17 1807 Feb 24 03:40 1807 May 31 20:42 1807 Jul 31 11:00	19° る37'53  19° る58'21 19° る58'21 19° る58'21 19° る55'33 20° る01'09 22° る57'07 0° 無 12° 無10'15 7° 無14'26	-0°13'14 0°13'15	minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist.	1812 Jul 10 10:30 1812 Jul 10 04:15 1812 Jul 10 16:45 1812 Jul 12 00:50 1812 Jul 24 03:03 1812 Sep 04 23:27 1812 Nov 25 14:06 1813 Jan 24 08:42 1813 Jan 23 16:03 1813 Feb 28 23:49	17°\$55'00 17°\$51'31 17°\$58'30 18°\$16'32 20°\$58'58 0°\$\Omega\$ 9°\$\Omega\$04'27 4°\$\Omega\$03'35 4°\$\Omega\$09'09 30°\$\R\$	0°10'49 6.23177 AU 0°41'47
max. Earth dist.  conjunction minimum elong behind sun begin behind sun end morning rise  retrograde opposition min. Earth dist.	1807 Jan 09 14:22 1807 Jan 11 01:20 1807 Jan 11 01:19 1807 Jan 10 20:31 1807 Jan 11 06:07 1807 Jan 23 19:17 1807 Feb 24 03:40 1807 May 31 20:42 1807 Jul 31 11:00 1807 Aug 01 03:10	19° る37'53  19° る58'21 19° る58'21 19° る58'21 19° る55'33 20° る01'09 22° る57'07 0° ≈ 12° ≈ 10'15 7° ≈ 14'26 7° ≈ 09'11	-0°13'14 0°13'15	minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition	1812 Jul 10 10:30 1812 Jul 10 04:15 1812 Jul 10 16:45 1812 Jul 12 00:50 1812 Jul 24 03:03 1812 Sep 04 23:27 1812 Nov 25 14:06 1813 Jan 24 08:42 1813 Jan 23 16:03 1813 Feb 28 23:49 1813 Mar 25 20:37	17°\$55'00 17°\$51'31 17°\$58'30 18°\$16'32 20°\$58'58 0°\$\Omega\$ 9°\$\Omega\$04'27 4°\$\Omega\$03'35 4°\$\Omega\$09'09 30°\$\R\$\$ 29°\$\Omega\$01'21	0°10'49 6.23177 AU 0°41'47
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max. Earth dist.  conjunction minimum elong behind sun begin behind sun end morning rise  retrograde opposition min. Earth dist. direct	1807 Jan 09 14:22 1807 Jan 11 01:20 1807 Jan 11 01:19 1807 Jan 10 20:31 1807 Jan 11 06:07 1807 Jan 23 19:17 1807 Feb 24 03:40 1807 May 31 20:42 1807 Jul 31 11:00 1807 Aug 01 03:10 1807 Sep 29 09:47 1808 Jan 04 04:38	19° る37'53  19° る58'21 19° る58'21 19° る58'21 19° る55'33 20° る01'09 22° る57'07 0° ≈ 12° ≈10'15 7° ≈14'26 7° ≈09'11 2° ≈19'40 15° ≈	-0°13'14 0°13'15	minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	1812 Jul 10 10:30 1812 Jul 10 04:15 1812 Jul 10 16:45 1812 Jul 12 00:50 1812 Jul 24 03:03 1812 Sep 04 23:27 1812 Nov 25 14:06 1813 Jan 24 08:42 1813 Jan 23 16:03 1813 Feb 28 23:49 1813 Mar 25 20:37 1813 Apr 20 00:03 1813 Jul 21 04:39	17°\$55'00 17°\$51'31 17°\$58'30 18°\$16'32 20°\$58'58 0°\$\Omega\$ 9°\$\Omega\$04'27 4°\$\Omega\$03'35 4°\$\Omega\$09'09 30°\$\R\$\$ 29°\$\Omega\$01'21 0°\$\Omega\$ 15°\$\Omega\$	0°10'49 6.23177 AU 0°41'47
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max. Earth dist.  conjunction minimum elong behind sun begin behind sun end morning rise  retrograde opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct evening set	1807 Jan 09 14:22  1807 Jan 11 01:20 1807 Jan 11 01:19 1807 Jan 10 20:31 1807 Jan 11 06:07 1807 Jan 23 19:17 1807 Feb 24 03:40 1807 May 31 20:42 1807 Jul 31 11:00 1807 Aug 01 03:10 1807 Sep 29 09:47 1808 Jan 04 04:38 1808 Feb 01 13:07  1808 Feb 14 10:54 1808 Feb 14 10:51 1808 Feb 14 03:28 1808 Feb 14 03:28 1808 Feb 27 10:43 1808 Mar 07 21:43 1808 Mar 07 21:43 1808 Sep 05 20:22 1808 Sep 05 13:54 1808 Nov 03 09:49 1809 Mar 08 19:41	19° 337'53  19° 358'21  19° 358'21  19° 358'21  19° 358'21  19° 358'21  20° 301'09  22° 357'07  0° ≈  12° ≈10'15  7° ≈09'11  2° ≈19'40  15° ≈  21° ≈33'09  24° ≈38'41  24° ≈38'41  24° ≈38'41  24° ≈38'41  24° ≈38'40  24° ≈38'40  24° ≈38'41  27° ≈45'33  0° ₭  18° ₭01'03  13° ₭01'30  13° ₭03'39  8° ₭07'55  27° ₭48'13	-0°13'14 0°13'15 -0°47'24 4.07120 AU -0°47'33 6.01345 AU -1°29'15 3.97198 AU	minimum elong behind sun begin behind sun end max. Earth dist. morning rise  retrograde opposition min. Earth dist.  direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct evening set	1812 Jul 10 10:30 1812 Jul 10 04:15 1812 Jul 10 04:15 1812 Jul 12 00:50 1812 Jul 24 03:03 1812 Sep 04 23:27 1812 Nov 25 14:06 1813 Jan 24 08:42 1813 Jan 23 16:03 1813 Feb 28 23:49 1813 Mar 25 20:37 1813 Apr 20 00:03 1813 Jul 21 04:39 1813 Jul 21 04:39 1813 Jul 30 18:20  1813 Aug 13 05:43 1813 Aug 13 05:41 1813 Aug 13 18:13 1813 Aug 13 18:13 1813 Aug 26 14:52 1813 Sep 29 11:56 1813 Dec 26 05:53 1814 Feb 24 09:29 1814 Feb 24 09:56 1814 Apr 27 02:20 1814 Aug 31 23:03	17°\$55'00 17°\$51'31 17°\$58'30 18°\$16'32 20°\$58'58 0°\$\Omega\$ 9°\$\Omega\$04'27 4°\$\Omega\$03'35 4°\$\Omega\$09'09 30°\$\S\$ 29°\$\Omega\$01'21 0°\$\Omega\$ 15°\$\Omega\$01'25 20°\$\Omega\$00'35 20°\$\Omega\$00'35 20°\$\Omega\$00'34 20°\$\Omega\$07'26 22°\$\Omega\$55'56 0°\$\Omega\$11'50 5°\$\Omega\$11'50 5°\$\Omega\$11'41 0°\$\Omega\$853 17°\$\Omega\$47'10	0°10'49 6.23177 AU 0°41'47 4.30086 AU 0°43'56 0°43'56 6.36220 AU 1°20'40 4.41005 AU
max. Earth dist.  conjunction minimum elong behind sun begin behind sun end morning rise  retrograde opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct evening set  conjunction conjunction	1807 Jan 09 14:22  1807 Jan 11 01:20 1807 Jan 11 01:19 1807 Jan 10 20:31 1807 Jan 11 06:07 1807 Jan 23 19:17 1807 Feb 24 03:40 1807 May 31 20:42 1807 Jul 31 11:00 1807 Aug 01 03:10 1807 Sep 29 09:47 1808 Jan 04 04:38 1808 Feb 01 13:07  1808 Feb 14 10:54 1808 Feb 14 10:51 1808 Feb 14 03:28 1808 Feb 14 03:28 1808 Feb 27 10:43 1808 Mar 07 21:43 1808 Jul 07 17:04 1808 Sep 05 20:22 1808 Sep 05 13:54 1808 Nov 03 09:49 1809 Mar 08 19:41 1809 Mar 17 21:48	19° 337'53  19° 358'21 19° 358'21 19° 358'21 19° 358'21 19° 355'33 20° 301'09 22° 357'07 0° ≈ 12° ≈10'15 7° ≈14'26 7° ≈09'11 2° ≈19'40 15° ≈ 21° ≈33'09  24° ≈38'41 24° ≈38'41 24° ≈38'41 27° ≈45'33 0° 米 18° ₩01'03 13° ₩03'39 8° ₩07'55 27° ₩48'13 0° Ψ	-0°13'14 0°13'15 -0°47'24 4.07120 AU -0°47'33 6.01345 AU -1°29'15 3.97198 AU	minimum elong behind sun begin behind sun end max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct  evening set conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct evening set ratrograde opposition min. Earth dist. direct evening set max. Earth dist.	1812 Jul 10 10:30 1812 Jul 10 04:15 1812 Jul 10 04:15 1812 Jul 12 00:50 1812 Jul 24 03:03 1812 Sep 04 23:27 1812 Nov 25 14:06 1813 Jan 24 08:42 1813 Jan 23 16:03 1813 Feb 28 23:49 1813 Mar 25 20:37 1813 Apr 20 00:03 1813 Jul 21 04:39 1813 Jul 30 18:20  1813 Aug 13 05:43 1813 Aug 13 05:41 1813 Aug 13 05:41 1813 Aug 13 18:13 1813 Aug 26 14:52 1813 Sep 29 11:56 1813 Dec 26 05:53 1814 Feb 24 09:29 1814 Feb 24 09:20 1814 Aug 31 23:03 1814 Sep 13 11:22	17°\$55'00 17°\$51'31 17°\$58'30 18°\$16'32 20°\$58'58 0°\$\Omega\$ 9°\$\Omega\$04'27 4°\$\Omega\$03'35 4°\$\Omega\$09'09 30°\$\S\$ 29°\$\Omega\$01'21 0°\$\Omega\$15'\Omega\$17'\Omega\$03'59 20°\$\Omega\$00'35 20°\$\Omega\$00'35 20°\$\Omega\$00'34 20°\$\Omega\$07'26 22°\$\Omega\$55'56 0°\$\Omega\$11'50 5°\$\Omega\$11'41 0°\$\Omega\$853 17°\$\Omega\$47'10 20°\$\Omega\$29'08	0°10'49 6.23177 AU 0°41'47 4.30086 AU 0°43'56 0°43'56 6.36220 AU 1°20'40 4.41005 AU 6.44172 AU
max. Earth dist.  conjunction minimum elong behind sun begin behind sun end morning rise  retrograde opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set	1807 Jan 09 14:22  1807 Jan 11 01:20 1807 Jan 11 01:19 1807 Jan 10 20:31 1807 Jan 11 06:07 1807 Jan 23 19:17 1807 Feb 24 03:40 1807 May 31 20:42 1807 Jul 31 11:00 1807 Aug 01 03:10 1807 Sep 29 09:47 1808 Jan 04 04:38 1808 Feb 01 13:07  1808 Feb 14 10:54 1808 Feb 14 10:51 1808 Feb 14 03:28 1808 Feb 14 03:28 1808 Feb 27 10:43 1808 Mar 07 21:43 1808 Jul 07 17:04 1808 Sep 05 20:22 1808 Sep 05 13:54 1808 Nov 03 09:49 1809 Mar 08 19:41 1809 Mar 17 21:48  1809 Mar 22 00:29 1809 Mar 22 00:29 1809 Mar 22 00:29	19° る37'53  19° る58'21 19° る58'21 19° る58'21 19° る55'33 20° る01'09 22° る57'07 0° ≈ 12° ≈10'15 7° ≈14'26 7° ≈09'11 2° ≈19'40 15° ≈ 21° ≈33'09  24° ≈38'41 24° ≈38'41 24° ≈38'41 27° ≈45'33 0° 米 18° 米01'03 13° 米01'30 13° 米03'39 8° 米07'55 27° 米48'13 0° Υ 0° Υ59'47 0° Υ59'47	-0°13'14 0°13'15 -0°47'24 4.07120 AU -0°47'33 6.01345 AU -1°29'15 3.97198 AU	minimum elong behind sun begin behind sun end max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct evening set ratrograde opposition min. Earth dist. direct evening set max. Earth dist.	1812 Jul 10 10:30 1812 Jul 10 04:15 1812 Jul 10 04:15 1812 Jul 12 00:50 1812 Jul 24 03:03 1812 Sep 04 23:27 1812 Nov 25 14:06 1813 Jan 24 08:42 1813 Jan 23 16:03 1813 Feb 28 23:49 1813 Mar 25 20:37 1813 Apr 20 00:03 1813 Jul 21 04:39 1813 Jul 30 18:20  1813 Aug 13 05:43 1813 Aug 13 05:41 1813 Aug 13 18:13 1813 Aug 13 18:13 1813 Aug 26 14:52 1813 Sep 29 11:56 1813 Dec 26 05:53 1814 Feb 24 09:29 1814 Apr 27 02:20 1814 Aug 31 23:03 1814 Sep 14 02:40	17°\$55'00 17°\$51'31 17°\$58'30 18°\$16'32 20°\$58'58 0°\$\Omega\$ 9°\$\Omega\$04'27 4°\$\Omega\$03'35 4°\$\Omega\$09'99 30°\$\Sigma\$ 29°\$\Omega\$01'21 0°\$\Omega\$15°\$\Omega\$17'\Omega\$03'59 20°\$\Omega\$00'35 20°\$\Omega\$00'35 20°\$\Omega\$00'34 20°\$\Omega\$07'26 22°\$\Omega\$55'56 0°\$\Omega\$10'\Omega\$08'56 5°\$\Omega\$11'41 0°\$\Omega\$08'53 17°\$\Omega\$47'10 20°\$\Omega\$29'08	0°10'49 6.23177 AU 0°41'47 4.30086 AU 0°43'56 0°43'56 6.36220 AU 1°20'40 4.41005 AU 1°03'20
max. Earth dist.  conjunction minimum elong behind sun begin behind sun end morning rise  retrograde opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. direct evening set	1807 Jan 09 14:22  1807 Jan 11 01:20 1807 Jan 11 01:19 1807 Jan 10 20:31 1807 Jan 11 06:07 1807 Jan 23 19:17 1807 Feb 24 03:40 1807 May 31 20:42 1807 Jul 31 11:00 1807 Aug 01 03:10 1807 Sep 29 09:47 1808 Jan 04 04:38 1808 Feb 01 13:07  1808 Feb 14 10:54 1808 Feb 14 10:51 1808 Feb 14 03:28 1808 Feb 14 03:28 1808 Feb 27 10:43 1808 Mar 07 21:43 1808 Mar 07 21:43 1808 Jul 07 17:04 1808 Sep 05 20:22 1808 Sep 05 13:54 1808 Nov 03 09:49 1809 Mar 08 19:41 1809 Mar 17 21:48  1809 Mar 22 00:29 1809 Mar 22 00:28 1809 Mar 23 00:57	19° る37'53  19° る58'21 19° る58'21 19° る58'21 19° る55'33 20° る01'09 22° る57'07 0° ≈ 12° ≈10'15 7° ≈14'26 7° ≈09'11 2° ≈19'40 15° ≈ 21° ≈33'09  24° ≈38'41 24° ≈38'41 24° ≈38'40 24° ≈38'41 27° ≈45'33 0° 米 18° 米01'03 13° 米01'30 13° 米03'39 8° 米07'55 27° 米48'13 0° ♀	-0°13'14 0°13'15 -0°47'24 4.07120 AU -0°47'33 0°47'33 6.01345 AU -1°29'15 3.97198 AU	minimum elong behind sun begin behind sun end max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct  evening set conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct evening set ratrograde opposition min. Earth dist. direct evening set max. Earth dist.	1812 Jul 10 10:30 1812 Jul 10 04:15 1812 Jul 10 04:15 1812 Jul 12 00:50 1812 Jul 24 03:03 1812 Sep 04 23:27 1812 Nov 25 14:06 1813 Jan 24 08:42 1813 Jan 23 16:03 1813 Feb 28 23:49 1813 Mar 25 20:37 1813 Apr 20 00:03 1813 Jul 21 04:39 1813 Jul 30 18:20  1813 Aug 13 05:43 1813 Aug 13 05:41 1813 Aug 13 05:41 1813 Aug 13 18:13 1813 Aug 13 18:13 1813 Aug 26 14:52 1813 Sep 29 11:56 1813 Dec 26 05:53 1814 Feb 24 09:29 1814 Feb 24 09:29 1814 Aug 31 23:03 1814 Sep 13 11:22  1814 Sep 14 02:41 1814 Sep 14 02:40 1814 Sep 17 03:28	17°\$55'00 17°\$51'31 17°\$58'30 18°\$16'32 20°\$58'58 0°\$\Omega\$ 9°\$\Omega\$04'27 4°\$\Omega\$03'35 4°\$\Omega\$09'99 30°\$\Sigma\$ 29°\$\Omega\$01'21 0°\$\Omega\$15°\$\Omega\$17°\$\Omega\$03'59 20°\$\Omega\$00'35 20°\$\Omega\$00'35 20°\$\Omega\$00'34 20°\$\Omega\$07'26 22°\$\Omega\$55'56 0°\$\Omega\$10'\Omega\$05'56 5°\$\Omega\$11'41 0°\$\Omega\$08'53 17°\$\Omega\$47'10 20°\$\Omega\$29'08 20°\$\Omega\$37'25 20°\$\Omega\$37'24 23°\$\Omega\$26'14	0°10'49 6.23177 AU 0°41'47 4.30086 AU 0°43'56 0°43'56 6.36220 AU 1°20'40 4.41005 AU 1°03'20
max. Earth dist.  conjunction minimum elong behind sun begin behind sun end morning rise  retrograde opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set	1807 Jan 09 14:22  1807 Jan 11 01:20 1807 Jan 11 01:19 1807 Jan 10 20:31 1807 Jan 11 06:07 1807 Jan 23 19:17 1807 Feb 24 03:40 1807 May 31 20:42 1807 Jul 31 11:00 1807 Aug 01 03:10 1807 Sep 29 09:47 1808 Jan 04 04:38 1808 Feb 01 13:07  1808 Feb 14 10:54 1808 Feb 14 10:51 1808 Feb 14 03:28 1808 Feb 14 03:28 1808 Feb 27 10:43 1808 Mar 07 21:43 1808 Jul 07 17:04 1808 Sep 05 20:22 1808 Sep 05 13:54 1808 Nov 03 09:49 1809 Mar 08 19:41 1809 Mar 17 21:48  1809 Mar 22 00:29 1809 Mar 22 00:29 1809 Mar 22 00:29	19° る37'53  19° る58'21 19° る58'21 19° る58'21 19° る55'33 20° る01'09 22° る57'07 0° ≈ 12° ≈10'15 7° ≈14'26 7° ≈09'11 2° ≈19'40 15° ≈ 21° ≈33'09  24° ≈38'41 24° ≈38'41 24° ≈38'41 27° ≈45'33 0° 米 18° 米01'03 13° 米01'30 13° 米03'39 8° 米07'55 27° 米48'13 0° Υ 0° Υ59'47 0° Υ59'47	-0°13'14 0°13'15 -0°47'24 4.07120 AU -0°47'33 0°47'33 6.01345 AU -1°29'15 3.97198 AU	minimum elong behind sun begin behind sun end max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct evening set ratrograde opposition min. Earth dist. direct evening set max. Earth dist.	1812 Jul 10 10:30 1812 Jul 10 04:15 1812 Jul 10 04:15 1812 Jul 12 00:50 1812 Jul 24 03:03 1812 Sep 04 23:27 1812 Nov 25 14:06 1813 Jan 24 08:42 1813 Jan 23 16:03 1813 Feb 28 23:49 1813 Mar 25 20:37 1813 Apr 20 00:03 1813 Jul 21 04:39 1813 Jul 30 18:20  1813 Aug 13 05:43 1813 Aug 13 05:41 1813 Aug 13 18:13 1813 Aug 13 18:13 1813 Aug 26 14:52 1813 Sep 29 11:56 1813 Dec 26 05:53 1814 Feb 24 09:29 1814 Apr 27 02:20 1814 Aug 31 23:03 1814 Sep 14 02:40	17°\$55'00 17°\$51'31 17°\$58'30 18°\$16'32 20°\$58'58 0°\$\Omega\$ 9°\$\Omega\$04'27 4°\$\Omega\$03'35 4°\$\Omega\$09'99 30°\$\Sigma\$ 29°\$\Omega\$01'21 0°\$\Omega\$15°\$\Omega\$17'\Omega\$03'59 20°\$\Omega\$00'35 20°\$\Omega\$00'35 20°\$\Omega\$00'34 20°\$\Omega\$07'26 22°\$\Omega\$55'56 0°\$\Omega\$10'\Omega\$08'56 5°\$\Omega\$11'41 0°\$\Omega\$08'53 17°\$\Omega\$47'10 20°\$\Omega\$29'08	0°10'49 6.23177 AU 0°41'47 4.30086 AU 0°43'56 0°43'56 6.36220 AU 1°20'40 4.41005 AU 1°03'20

opposition	1815 Mar 26 20:20	5° <b>£</b> 18'48	1026121	minimum elong	1821 Mar 27 07:19	6° <b>Ƴ</b> 18'46	1°05'33
		5° <b>£</b> 12'45		•		6° <b>Y</b> 37'11	5.94773 AU
min. Earth dist.	1815 Mar 27 15:06		4.45622 AU	max. Earth dist.	1821 Mar 28 13:43		5.94773 AU
direct	1815 May 28 10:02	0° <b>£</b> 16'16		morning rise	1821 Apr 09 16:25	9° <b>Ƴ</b> 32'44	
evening set	1815 Oct 01 21:49	17° <b>£</b> 46'04	C 45001 ATT		1821 Aug 07 20:10	0° <b>8</b>	
max. Earth dist.	1815 Oct 13 04:43	20° <b>≏</b> 12'39	6.45031 AU	retrograde	1821 Aug 20 05:47	0° <b>8</b> 15'10	
		_			1821 Sep 01 12:32	30° <b>₹</b> Υ	
conjunction	1815 Oct 14 18:47	20° <b>≏</b> 33'19	1°05'12	opposition	1821 Oct 18 21:41	25° <b>Y</b> 11'34	
minimum elong	1815 Oct 14 18:47	20° <b>≏</b> 33'19	1°05'13	min. Earth dist.	1821 Oct 17 17:47		3.95870 AU
morning rise	1815 Oct 27 13:08	23° <b>≏</b> 19'20		direct	1821 Dec 15 18:23	20° <b>Y</b> 16'45	
	1815 Nov 28 16:12	0° <b>M</b> .			1822 Mar 07 10:47	$_{0\circ}$ 8	
retrograde	1816 Feb 24 20:22	10° <b>M</b> ₀07'50		evening set	1822 Apr 20 16:03	9° <b>8</b> 56'27	
opposition	1816 Apr 25 15:22	5°M15′39	1°26'27				
min. Earth dist.	1816 Apr 26 23:07	5°M05'30	4.42762 AU	conjunction	1822 May 04 05:57	13° <b>8</b> 10'24	-0°54'01
direct	1816 Jun 27 09:41	0°M14'22		minimum elong	1822 May 04 05:59	13° <b>8</b> 10'25	0°54'00
	1816 Oct 18 02:56	15° <b>™</b>		max. Earth dist.	1822 May 06 10:21	13° <b>8</b> 41'37	5.99070 AU
evening set	1816 Oct 31 10:36	17°ML53'00			1822 May 11 22:08	15° <b>8</b>	
max. Earth dist.	1816 Nov 11 02:56	20° <b>M</b> ₊14'12	6.38612 AU	morning rise	1822 May 17 22:36	16° <b>8</b> 25'35	
					1822 Jul 20 13:49	$\Pi^{\circ}0$	
conjunction	1816 Nov 13 03:35	20°M41'06	0°49'25	retrograde	1822 Sep 25 18:03	6° <b>Ⅱ</b> 34'55	
minimum elong	1816 Nov 13 03:37	20°M41'07	0°49'25	min. Earth dist.	1822 Nov 22 19:14	1° <b>Ⅱ</b> 42'05	4.04337 AU
morning rise	1816 Nov 25 18:26	23°M28'25		opposition	1822 Nov 24 07:06	1° <b>Ⅱ</b> 29'51	-0°59'14
5	1816 Dec 26 11:45	0° <b>∡¹</b>		rr	1822 Dec 05 11:10	30° <b>₹</b> 8	
retrograde	1817 Mar 27 16:48	10° <b>×7</b> 47'11		direct	1823 Jan 21 11:38	26° <b>8</b> 32'12	
opposition	1817 May 27 15:52	5°×755'13	0°52'29	direct	1823 Mar 09 07:27	0°Ⅱ	
min. Earth dist.	1817 May 29 04:15	5°× <b>7</b> 43'38	4.33120 AU	evening set	1823 May 27 21:49	15° <b>I</b> I43'15	
direct	1817 Jul 28 22:27	0° <b>∡</b> 756′01	4.33120 AC	evening set	1023 Way 27 21.47	13 11-313	
	1817 Jul 28 22:27 1817 Dec 01 11:51	18° 🗷 59'36		agnismation	1823 Jun 10 15:55	18° <b>Ⅱ</b> 53'42	0922114
evening set max. Earth dist.	1817 Dec 01 11.31 1817 Dec 12 03:05	21° 🗷 24'24	6.26485 AU	conjunction minimum elong	1823 Jun 10 15:57	18° <b>II</b> 53'42	
max. Earm dist.	1817 Dec 12 03.03	21 × 24 24	0.20483 AU	_		18 <b>Ⅲ</b> 33 43 19° <b>Ⅲ</b> 24'20	
	1017D 14 02 26	210 75202	0010107	max. Earth dist.	1823 Jun 12 20:58		6.10886 AU
conjunction	1817 Dec 14 03:36	21° 🖈 52'02	0°19'06	morning rise	1823 Jun 24 11:10	22° <b>I</b> 104'23	
minimum elong	1817 Dec 14 03:37	21° <b>х</b> 52'02	0°19'07		1823 Jul 30 14:21	0°50	
morning rise	1817 Dec 26 18:49	24° <b>∡</b> ⁴44'24		retrograde	1823 Oct 29 22:30	11°507'50	
	1818 Jan 19 13:26	0°₹		min. Earth dist.	1823 Dec 27 07:59	6° <b>©</b> 13'59	4.18122 AU
retrograde	1818 Apr 30 17:09	12° <b>云</b> 58'28		opposition	1823 Dec 28 13:05	6°904'07	-0°04'25
opposition	1818 Jun 30 13:53	8° <b>る</b> 05'04	0°00'50	asc. node	1824 Jan 28 11:08	2° <b>©</b> 22'17	
min. Earth dist.	1818 Jul 01 20:19	7° <b>る</b> 55'18	4.19201 AU	direct	1824 Feb 25 21:10	1° <b>©</b> 03'33	
desc. node	1818 Jul 06 10:43	7° <b>る</b> 20'01		evening set	1824 Jul 01 14:24	19° <b>©</b> 35'29	
direct	1818 Aug 30 18:21	3° <b>ප</b> 08'18					
evening set	1819 Jan 02 23:23	21° <b>る</b> 48'49		conjunction	1824 Jul 15 06:59	22° <b>5</b> 38'47	0°15'59
max. Earth dist.	1819 Jan 14 09:23	24° <b>පි</b> 29'20	6.11974 AU	minimum elong	1824 Jul 15 06:58	22° <b>5</b> 38'46	0°15'58
				max. Earth dist.	1824 Jul 16 19:19	22° <b>©</b> 59'04	6.25497 AU
conjunction	1819 Jan 15 17:14	24°₹48′03	-0°18'31	morning rise	1824 Jul 28 22:32	25° <b>©</b> 41'19	
minimum elong	1819 Jan 15 17:13	24° <b>පි</b> 48'02	0°18'32		1824 Aug 17 18:20	$0^{\circ}\Omega$	
morning rise	1819 Jan 28 11:47	27° <b>る</b> 47'59		retrograde	1824 Nov 29 20:44	13° <b>Ω</b> 37'01	
	1819 Feb 06 23:20	0° <b>≈</b>		opposition	1825 Jan 28 17:53	8° <b>£</b> 36′39	0°48'18
	1819 Apr 29 05:13	15° <b>≈</b>		min. Earth dist.	1825 Jan 28 02:40	8° <b>Ω</b> 41'44	4.32221 AU
retrograde	1819 Jun 06 01:20	17° <b>≈</b> 11'10		direct	1825 Mar 30 09:46	3° <b>Ω</b> 34'16	
•	1819 Jul 14 03:07	15°R≈			1825 Jul 04 04:10	15° <b>Ω</b>	
opposition	1819 Aug 05 14:11	12° <b>≈</b> 14'59	-0°54'39	evening set	1825 Aug 04 07:39	21° <b>Ω</b> 31'29	
min. Earth dist.	1819 Aug 06 03:24	12° <b>≈</b> 10'40	4.05240 AU	•			
direct	1819 Oct 04 07:08	7° <b>≈</b> 20'31		conjunction	1825 Aug 17 17:49	24° <b>Ω</b> 26'53	0°47'32
	1819 Dec 15 14:28	15° <b>≈</b>		minimum elong	1825 Aug 17 17:46	24° <b>Ω</b> 26'52	
evening set	1820 Feb 06 12:20	26° <b>≈</b> 39'34		max. Earth dist.	1825 Aug 18 01:09	24° <b>Ω</b> 30'53	6.37994 AU
				morning rise	1825 Aug 31 01:48	27° <b>Ω</b> 21'00	0.0777
conjunction	1820 Feb 19 10:51	29° <b>≈</b> 46'09	-0°51'19	morning rise	1825 Sep 12 10:29	0° <b>m</b> )	
minimum elong	1820 Feb 19 10:48	29°≈46'07		retrograde	1825 Dec 30 10:15	14° <b>m</b> ) 27'47	
•			5.99826 AU	•			1°24'14
max. Earth dist.	1820 Feb 19 06:39 1820 Feb 20 09:51	29° <b>≈</b> 43'37 0° <b>∺</b>	5.77040 AU	opposition min. Earth dist.	1826 Feb 28 14:31	9°M)31'12	4.42303 AU
morning rig-		0° <del>K</del> 2° <b>∺</b> 54'11			1826 Feb 28 18:46	9° Mp 29'48	4.42303 AU
morning rise	1820 Mar 03 11:49			direct	1826 May 01 12:42	4° Mp 28'12	
retrograde	1820 Jul 13 01:21	23° <b>¥</b> 17′01	1022142	evening set	1826 Sep 05 06:25	22° Mp 03'36	
opposition	1820 Sep 11 03:46	18° <b>¥</b> 16'56			1006 0 10 00 0	0.40*** 55:0-	100.425
min. Earth dist.	1820 Sep 10 17:50		3.96222 AU	conjunction	1826 Sep 18 09:04	24° Mp 53'09	1°04'37
direct	1820 Nov 08 13:23	13° <b>¥</b> 23′22		minimum elong	1826 Sep 18 09:03	24° m 53'09	1°04'37
	1821 Mar 01 00:28	0° <b>Υ</b>		max. Earth dist.	1826 Sep 17 13:40	24° m/42'40	6.44874 AU
evening set	1821 Mar 14 01:10	3° <b>Y</b> 06′27		morning rise	1826 Oct 01 08:47	27° <b>m</b> ) 41'17	
					1826 Oct 12 05:26	0∘ <b>⊽</b>	
conjunction	1821 Mar 27 07:19	6° <b>Y</b> 18'46	-1°05'34	retrograde	1827 Jan 29 10:51	14° <b>≏</b> 26′02	

opposition	1827 Mar 31 00:32	9° <b>م</b> 32'22	1°36'27	conjunction	1833 Apr 01 16:25	11° <b>Y</b> 42'29	-1°05'28
min. Earth dist.	1827 Mar 31 21:20	9° <b>£</b> 25'40	4.45709 AU	minimum elong	1833 Apr 01 16:25	11° <b>Y</b> 42'29	1°05'28
direct	1827 Jun 01 15:21	4° <b>£</b> 29'53		max. Earth dist.	1833 Apr 03 02:43	12°Υ03'14	5.94878 AU
evening set	1827 Oct 06 02:23	21° <b>♀</b> 59'57		morning rise	1833 Apr 15 02:51	14°Υ56'56	
max. Earth dist.	1827 Oct 17 06:41	24° <b>£</b> 25'21	6.44482 AU	5 6 41	1833 Jun 24 23:06	0°8	
				retrograde	1833 Aug 25 12:20	5° <b>8</b> 37'00	
conjunction	1827 Oct 18 22:41	24° <b>£</b> 47'07	1°04'01	min. Earth dist.	1833 Oct 22 21:34	0° <b>8</b> 43'28	3.96753 AU
minimum elong	1827 Oct 18 22:42	24° <b>£</b> 47'08	1°04'02	opposition	1833 Oct 24 04:31	0° <b>8</b> 32'58	-1°31'28
morning rise	1827 Oct 31 16:17	27° <b>£</b> 33'06		11	1833 Oct 28 05:54	30° <b>₹</b> Υ	
C	1827 Nov 12 02:30	o°M.		direct	1833 Dec 21 00:26	25° <b>Ƴ</b> 37'47	
retrograde	1828 Feb 29 03:01	14°M24'30			1834 Feb 11 10:20	0°8	
opposition	1828 Apr 29 22:45	9° <b>M</b> 32'27	1°23'06		1834 Apr 25 00:52	15° <b>8</b>	
min. Earth dist.	1828 May 01 08:25	9° <b>M</b> 21'44	4.41603 AU	evening set	1834 Apr 26 00:15	15° <b>8</b> 13'48	
direct	1828 Jul 01 16:59	4°M31'24					
	1828 Oct 01 08:23	15° <b>™</b>		conjunction	1834 May 09 14:59	18° <b>8</b> 27'24	-0°50'25
evening set	1828 Nov 04 16:06	22°M13'21		minimum elong	1834 May 09 15:02	18° <b>8</b> 27'25	0°50'25
max. Earth dist.	1828 Nov 15 05:21	24°M33'29	6.36911 AU	max. Earth dist.	1834 May 11 20:39	18° <b>8</b> 59'14	6.00615 AU
				morning rise	1834 May 23 08:17	21° <b>8</b> 42'07	
conjunction	1828 Nov 17 08:41	25°M01'59	0°45'59		1834 Jun 29 04:15	$\Pi^{\circ}0$	
minimum elong	1828 Nov 17 08:43	25°M02'00	0°45'58	retrograde	1834 Sep 30 17:25	11° <b>Ⅱ</b> 42'21	
morning rise	1828 Nov 29 23:36	27° <b>M</b> 49'57		min. Earth dist.	1834 Nov 27 19:42	6° <b>Ⅱ</b> 49'11	4.06327 AU
	1828 Dec 09 20:46	0°⊀		opposition	1834 Nov 29 06:38	6° <b>Ⅱ</b> 37'15	-0°52'05
retrograde	1829 Apr 01 07:13	15° <b>₰</b> 16'09		direct	1835 Jan 26 15:22	1° <b>Ⅱ</b> 39'09	
opposition	1829 Jun 01 05:39	10° <b>≯</b> 24'03	0°46'10	evening set	1835 Jun 02 00:53	20° <b>Ⅱ</b> 43'50	
min. Earth dist.	1829 Jun 02 18:14	10° <b>҂</b> 12′23	4.30974 AU				
direct	1829 Aug 02 09:18	5° <b>₹</b> 25'05		conjunction	1835 Jun 15 19:12	23° <b>∏</b> 53'19	-0°16'53
evening set	1829 Dec 05 22:01	23° <b>҂</b> 34'43		minimum elong	1835 Jun 15 19:13	23° <b>∏</b> 53′20	0°16'52
max. Earth dist.	1829 Dec 16 15:49	26° <b>≯</b> 01'43	6.24078 AU	max. Earth dist.	1835 Jun 18 00:05	24° <b>Ⅱ</b> 23'42	6.13146 AU
				morning rise	1835 Jun 29 14:08	27° <b>Ⅱ</b> 02'51	
conjunction	1829 Dec 18 14:07	26° <b>≯</b> 28'13	0°14'06		1835 Jul 12 16:49	$0_{\circ}$ වෙ	
minimum elong	1829 Dec 18 14:08	26° <b>₹</b> 28'14	0°14'06	retrograde	1835 Nov 03 12:29	15° <b>©</b> 55'23	
behind sun begin	1829 Dec 18 10:01	26° <b>₹</b> 25'53		asc. node	1835 Dec 08 00:16	14°900'54	
behind sun end	1829 Dec 18 18:14	26° <b>₹</b> 30'34		min. Earth dist.	1836 Jan 01 00:11	11° <b>©</b> 01'35	4.20424 AU
morning rise	1829 Dec 31 05:33	29° <b>₹</b> 21'43		opposition	1836 Jan 02 04:13	10°952'06	0°03'34
	1830 Jan 03 00:56	0°る		direct	1836 Mar 01 16:12	5°951'16	
retrograde	1830 May 05 16:28	17°る46'26		evening set	1836 Jul 06 10:28	24° <b>©</b> 17'01	
desc. node	1830 May 16 12:35	17° <b>る</b> 35'25	0005105		1026 7 1 20 02 10	25001010	0001100
opposition	1830 Jul 05 12:01	12°る52'46		conjunction	1836 Jul 20 02:10	27°519'03	0°21'02
min. Earth dist.	1830 Jul 06 16:38		4.16714 AU	minimum elong	1836 Jul 20 02:08	27°519'03	
direct	1830 Sep 04 11:04	7°る56'22		max. Earth dist.	1836 Jul 21 09:13		6.27657 AU
evening set max. Earth dist.	1831 Jan 07 17:21 1831 Jan 19 06:22	26°る44'05 29°る27'16	6.09623 AU	morning rise	1836 Aug 01 04:09	0° <b>Ω</b> 0° <b>Ω</b> 20'18	
max. Earm dist.	1831 Jan 19 00.22	29 02/10	0.09023 AU	morning rise	1836 Aug 02 16:56 1836 Oct 19 20:38	15° <b>Ω</b>	
conjunction	1831 Jan 20 11:37	29° <b>る</b> 44'33	0.033,44	retrograde	1836 Dec 04 05:11	13 <b>%</b> 18° <b>Ω</b> 07'18	
minimum elong	1831 Jan 20 11:36	29° <b>石</b> 44'32		retrograde	1837 Jan 18 15:51	15°RΩ	
minimum clong	1831 Jan 21 13:47	2)°≈	0 23 43	opposition	1837 Feb 02 02:47	13° <b>Ω</b> 07'30	0°54'33
morning rise	1831 Feb 02 07:07	0		min. Earth dist.	1837 Feb 01 15:08	13° <b>Ω</b> 11'23	4.34080 AU
morning rise	1831 Mar 31 04:52	15° <b>≈</b>		direct	1837 Apr 04 00:29	8° <b>Ω</b> 04'57	4.54000 710
retrograde	1831 Jun 11 09:17	22° <b>≈</b> 20'06		uncet	1837 Jun 14 17:06	15° <b>Ω</b>	
opposition	1831 Aug 10 20:26	17°≈23'21	-1°01'36	evening set	1837 Aug 08 20:38	25° <b>Ω</b> 57'56	
min. Earth dist.	1831 Aug 11 05:50		4.03251 AU			. 555750	
	1831 Aug 29 22:56	15°R≈		conjunction	1837 Aug 22 05:55	28° <b>Ω</b> 52'21	0°50'54
direct	1831 Oct 09 07:57	12° <b>≈</b> 29'05		minimum elong	1837 Aug 22 05:53	28° <b>£</b> 52′20	0°50'53
	1831 Nov 17 23:53	15° <b>≈</b>		max. Earth dist.	1837 Aug 22 10:17	28° <b>Ω</b> 54'43	6.39420 AU
	1832 Feb 03 15:33	0° <b>)</b> €			1837 Aug 27 10:12	0° m)	
evening set	1832 Feb 11 14:29	1° <b>)</b> 53′48		morning rise	1837 Sep 04 12:35	1° m 45'24	
2				retrograde	1838 Jan 03 13:45	18° <b>m</b> 47'22	
conjunction	1832 Feb 24 14:07	5° <b>)</b> €01'29	-0°54'43	opposition	1838 Mar 04 20:18	13° <b>m</b> 51'18	1°27'26
minimum elong	1832 Feb 24 14:05	5° <b>)</b> €01'27		min. Earth dist.	1838 Mar 05 02:21	13° <b>m</b> 49'19	4.43232 AU
max. Earth dist.	1832 Feb 24 16:48	5° <b>)</b> €03'05	5.98401 AU	direct	1838 May 05 20:36	8° m/48'22	
morning rise	1832 Mar 08 16:04	8° <b>¥</b> 10′37		evening set	1838 Sep 09 14:36	26° m 22'05	
retrograde	1832 Jul 18 13:49	28° <b>)</b> 39'43		ū	*	•	
opposition	1832 Sep 16 13:45	23° <b>)</b> 39′03	-1°35'24	conjunction	1838 Sep 22 16:09	29° <b>m</b> 11'05	1°05'36
min. Earth dist.	1832 Sep 16 00:59	23° <b>)(</b> 43'19	3.95545 AU	minimum elong	1838 Sep 22 16:08	29° m 11'05	1°05'36
direct	1832 Nov 13 20:37	18° <b>)</b> 45′28		max. Earth dist.	1838 Sep 21 16:33	28° <b>m</b> 58'20	6.45232 AU
	1833 Feb 10 13:50	$0$ ° $\Upsilon$			1838 Sep 26 10:38	0∘ <b>⊽</b>	
evening set	1833 Mar 19 09:15	8° <b>Y</b> 29'43		morning rise	1838 Oct 05 14:58	1° <b>≏</b> 58'43	

		_					
retrograde	1839 Feb 02 17:16	18° <b>≏</b> 43'00		direct	1844 Nov 19 01:06	24° <b>₩</b> 03'26	
opposition	1839 Apr 04 07:01	13° <b>≏</b> 49'43	1°36'05		1845 Jan 19 21:21	$0$ ° $\Upsilon$	
min. Earth dist.	1839 Apr 05 06:56	13° <b>≏</b> 42'02	4.45487 AU	evening set	1845 Mar 24 14:46	13° <b>Ƴ</b> 46'52	
direct	1839 Jun 06 00:13	8° <b>£</b> 47'25					
evening set	1839 Oct 10 08:42	26° <b>£</b> 18'33		conjunction	1845 Apr 06 23:01	16° <b>Ƴ</b> 59'50	-1°04'50
max. Earth dist.	1839 Oct 21 09:17	28° <b>£</b> 42'18	6.43684 AU	minimum elong	1845 Apr 06 23:02	16° <b>Y</b> 59'51	1°04'50
max. Earth dist.	1037 001 21 07.17	20 - 12 10	0.15001710	max. Earth dist.	1845 Apr 08 13:13	17° <b>Y</b> 22'54	5.95489 AU
	1020 0 4 22 04 22	200 0 05147	1002120				3.93469 AU
conjunction	1839 Oct 23 04:23	29° <b>Ω</b> 05'47		morning rise	1845 Apr 20 10:24	20° <b>Y</b> 14′25	
minimum elong	1839 Oct 23 04:24	29° <b>≏</b> 05'48	1°02'28		1845 Jun 02 10:39	$9^{\circ}$ 8	
	1839 Oct 27 07:47	0°M₊		retrograde	1845 Aug 30 15:40	10° <b>8</b> 50'17	
morning rise	1839 Nov 04 21:28	1°M51'54		min. Earth dist.	1845 Oct 27 23:59	5° <b>8</b> 56'38	3.97975 AU
	1840 Jan 13 13:34	15° <b>™</b>		opposition	1845 Oct 29 07:35	5° <b>8</b> 45'53	-1°27'43
retrograde	1840 Mar 04 12:13	18° <b>M</b> 47′08		direct	1845 Dec 26 05:11	0° <b>8</b> 50'19	
	1840 Apr 25 19:45	15°RM			1846 Apr 07 21:55	15° <b>8</b>	
ammagitian	•	13°M55'11	1°19'12	arranina aat		20° <b>8</b> 21'40	
opposition	1840 May 04 08:51			evening set	1846 May 01 04:22	20 021 40	
min. Earth dist.	1840 May 05 19:01	13°M44'18	4.40287 AU				
direct	1840 Jul 06 01:03	8°M54'24		conjunction	1846 May 14 19:55	23° <b>8</b> 34'49	-0°46'33
	1840 Sep 11 10:04	15° <b>M</b> ₊		minimum elong	1846 May 14 19:57	23° <b>8</b> 34'51	0°46'33
evening set	1840 Nov 08 23:58	26°M40'06		max. Earth dist.	1846 May 17 03:35	24° <b>8</b> 07'42	6.02322 AU
max. Earth dist.	1840 Nov 19 14:03	29°M01'15	6.35191 AU	morning rise	1846 May 28 13:39	26° <b>8</b> 48'56	
				C	1846 Jun 11 08:00	$\Pi^{\circ}0$	
conjunction	1840 Nov 21 16:24	29°M29'21	0°42'10	retrograde	1846 Oct 05 12:19	16° <b>∏</b> 39'41	
				•		10 <b>H</b> 3941	4 00220 ATT
minimum elong	1840 Nov 21 16:26	29°M29'22	0°42'10	min. Earth dist.	1846 Dec 02 14:56		4.08329 AU
	1840 Nov 23 23:20	0°⊀		opposition	1846 Dec 04 01:39	11° <b>Ⅱ</b> 34'43	-0°44'49
morning rise	1840 Dec 04 07:07	2° <b>҂</b> 17'58		direct	1847 Jan 31 13:21	6° <b>Ⅱ</b> 36'13	
retrograde	1841 Apr 06 00:25	19° <b>∡</b> ¹51'47		evening set	1847 Jun 07 00:05	25° <b>∏</b> 34'54	
opposition	1841 Jun 05 22:26	14° <b>₹</b> 59'40	0°39'21				
min. Earth dist.	1841 Jun 07 10:54	14° <b>∡</b> °48′03	4.28950 AU	conjunction	1847 Jun 20 18:10	28° <b>∏</b> 43'22	-0°11'36
direct	1841 Aug 06 22:53	10° <b>₹</b> 01'09		minimum elong	1847 Jun 20 18:11	28° <b>∏</b> 43'23	0°11'36
evening set	1841 Dec 10 10:33	28° <b>х</b> 16'18		behind sun begin	1847 Jun 20 12:20	28° <b>I</b> I40'03	0 1130
evening set				_			
	1841 Dec 17 23:40	0° <b>ろ</b>		behind sun end	1847 Jun 21 00:02	28° <b>Ⅱ</b> 46'43	
max. Earth dist.	1841 Dec 21 05:05	0° <b>る</b> 44'30	6.21930 AU	max. Earth dist.	1847 Jun 22 19:05	29° <b>Ⅱ</b> 11'20	6.15254 AU
					1847 Jun 26 08:18	0	
conjunction	1841 Dec 23 02:42	1° <b>る</b> 10'44	0°08'52	morning rise	1847 Jul 04 12:58	1° <b>©</b> 51'51	
minimum elong	1841 Dec 23 02:42	1° <b>る</b> 10'44	0°08'51	asc. node	1847 Oct 18 19:44	19° <b>©</b> 54'51	
behind sun begin	1841 Dec 22 19:49	1° <b>る</b> 06'48		retrograde	1847 Nov 07 23:09	20° <b>©</b> 34'29	
behind sun end	1841 Dec 23 09:36	1° <b>る</b> 14'41		opposition	1848 Jan 06 15:39	15°931'36	0°11'14
morning rise	1842 Jan 04 18:42	4°る05'20		min. Earth dist.	1848 Jan 05 14:09	15° <b>©</b> 40'13	4.22442 AU
=							4.22442 AU
desc. node	1842 Mar 25 18:56	19° <b>る</b> 31'21		direct	1848 Mar 06 08:49	10° <b>©</b> 30'23	
retrograde	1842 May 10 18:00	22° <b>る</b> 40'06		evening set	1848 Jul 11 02:56	28°951'10	
opposition	1842 Jul 10 12:37	17° <b>る</b> 46'05	-0°15'13		1848 Jul 16 07:39	$0 {\circ} \Omega$	
min. Earth dist.	1842 Jul 11 14:15	17° <b>る</b> 37'50	4.14613 AU				
direct	1842 Sep 09 06:08	12°る50'05		conjunction	1848 Jul 24 18:07	1° <b>Ω</b> 52'10	0°25'49
	1843 Jan 05 03:37	0° <b>≈</b>		minimum elong	1848 Jul 24 18:05	1°Ω52'10	0°25'49
evening set	1843 Jan 12 12:39	1° <b>≈</b> 43'31		max. Earth dist.	1848 Jul 25 22:30	2° <b>Ω</b> 07'55	6.29441 AU
•			( 07707 AII				0.27441 AO
max. Earth dist.	1843 Jan 24 08:03	4° <b>≈</b> 31'04	6.07787 AU	morning rise	1848 Aug 07 07:46	4° <b>£</b> 52'14	
				_	1848 Sep 25 20:32	15° <b>Ω</b>	
conjunction	1843 Jan 25 07:37	4°≈45'02	-0°28'51	retrograde	1848 Dec 08 10:52	22° <b>Ω</b> 32'04	
minimum elong	1843 Jan 25 07:35	4° <b>≈</b> 45'01	0°28'51	opposition	1849 Feb 06 09:22	17° <b>Ω</b> 32'51	1°00'19
morning rise	1843 Feb 07 03:42	7° <b>≈</b> 47'26		min. Earth dist.	1849 Feb 05 23:51	17° <b>Ω</b> 36′00	4.35513 AU
	1843 Mar 10 19:26	15° <b>≈</b>			1849 Feb 26 13:39	15°R <b>Ω</b>	
retrograde	1843 Jun 16 17:50	27° <b>≈</b> 30'38		direct	1849 Apr 08 10:23	12° <b>Ω</b> 30'11	
opposition	1843 Aug 16 03:02	22° <b>≈</b> 33'24	-1°08'07		1849 May 19 18:07	15° <b>Ω</b>	
• •	•				•		
min. Earth dist.	1843 Aug 16 09:39		4.01881 AU		1849 Aug 11 18:04	0° m/2011.5	
direct	1843 Oct 14 10:16	17° <b>≈</b> 39'26		evening set	1849 Aug 13 07:39	0° <b>m</b> ,20′15	
	1844 Jan 17 00:06	0° <b>∀</b>					
evening set	1844 Feb 16 16:40	7° <b>)</b> €07'29		conjunction	1849 Aug 26 15:44	3° Mp 13′50	0°53'54
				minimum elong	1849 Aug 26 15:42	3° <b>m</b> 13'49	0°53'53
conjunction	1844 Feb 29 17:03	10° <b>)</b> 15′54	-0°57'41	max. Earth dist.	1849 Aug 26 14:29	3° m 13'09	6.40389 AU
minimum elong	1844 Feb 29 17:01	10° <b>)</b> 15′52		morning rise	1849 Sep 08 21:28	6° Mp 06'05	
max. Earth dist.			5.97614 AU	•	•		
	1844 Feb 29 23:41		J.7/014 AU	retrograde	1850 Jan 07 19:03	23° Mp 04'47	1020106
morning rise	1844 Mar 13 20:12	13° <b>)</b> €25'53		opposition	1850 Mar 09 01:25	18°Mp09'10	1°30'06
	1844 Jun 02 15:16	$0^{\circ}\mathbf{\Upsilon}$		min. Earth dist.	1850 Mar 09 10:52	18° Mp 06'05	4.43714 AU
retrograde	1844 Jul 23 21:24	3° <b>Y</b> 58'22		direct	1850 May 10 05:11	13°Mp06'13	
	1844 Sep 14 00:03	30° <b>₹</b> ₩			1850 Sep 10 20:19	0० <b>⊽</b>	
opposition	1844 Sep 21 21:17	28° <b>)</b> 57′08	-1°37'13	evening set	1850 Sep 13 22:04	0° <b>م</b> 39'28	
min. Earth dist.	1844 Sep 21 04:19		3.95465 AU	C	1		
dibt.		, , , , , , , , , , , , , , , , , ,					

opposition	1862 Mar 13 08:34	22° <b>m</b> 32'25	1°32'22		1867 Dec 01 03:45	0° <b>ℋ</b>	
min. Earth dist.	1862 Mar 13 19:25	22° <b>m</b> 28'54	4.44305 AU	evening set	1868 Feb 26 13:38	17° <b>∺</b> 13'47	
direct	1862 May 14 13:54	17° m 29'40					
	1862 Aug 25 06:02	0∘ <b>⊽</b>		conjunction	1868 Mar 10 16:02	20° <b>)</b> 23'42	
evening set	1862 Sep 18 07:06	5° <b>Ω</b> 01'49	C 45400 ATT	minimum elong	1868 Mar 10 16:00	20° <b>)</b> €23'42	
max. Earth dist.	1862 Sep 30 01:25	7° <b>£</b> 34'08	6.45400 AU	max. Earth dist.	1868 Mar 11 07:14		5.96234 AU
	10/2 0 4 01 0/ 40	70 0 50102	1007120	morning rise	1868 Mar 23 21:15	23° <b>升</b> 35'15 0° <b>⋎</b>	
conjunction	1862 Oct 01 06:48 1862 Oct 01 06:48	7° <b>♀</b> 50'03 7° <b>♀</b> 50'02	1°06'30 1°06'30	ratragrada	1868 Apr 20 07:31	0° γ 14° <b>Υ</b> 13'56	
minimum elong morning rise	1862 Oct 14 03:50	10° <b>£</b> 30'02	1 00 30	retrograde min. Earth dist.	1868 Aug 03 06:46 1868 Oct 01 06:23	9° <b>Υ</b> 18'45	3.95095 AU
retrograde	1863 Feb 11 06:35	27° <b>£</b> 21'41		opposition	1868 Oct 01 00.23	9° <b>Υ</b> 11'46	
opposition	1863 Apr 12 21:57	27° <b>⊆</b> 21'41 22° <b>⊆</b> 28'56	1°33'50	direct	1868 Nov 29 02:46	4° <b>Υ</b> 17'44	-1 38 30
min. Earth dist.	1863 Apr 14 00:50	22° <b>⊆</b> 20'19	4.44802 AU	evening set	1869 Apr 03 19:39	24° <b>Υ</b> 01'41	
direct	1863 Jun 14 16:07	17° <b>£</b> 27'01	1.11002710	evening sec	1007 Apr 03 17.57	21 10111	
	1863 Sep 25 06:45	0°M		conjunction	1869 Apr 17 06:05	27° <b>Ƴ</b> 15′22	-1°02'11
evening set	1863 Oct 18 22:17	5° <b>M</b> .00'07		minimum elong	1869 Apr 17 06:06	27°Υ15'23	
max. Earth dist.	1863 Oct 29 19:59	7°M22'54	6.42208 AU	max. Earth dist.	1869 Apr 19 00:55	27° <b>Ƴ</b> 41'09	5.96144 AU
					1869 Apr 28 16:24	0° <b>8</b>	
conjunction	1863 Oct 31 16:48	7° <b>M</b> 47'27	0°58'22	morning rise	1869 Apr 30 19:44	0° <b>8</b> 30'38	
minimum elong	1863 Oct 31 16:50	7° <b>M</b> 47'28	0°58'22		1869 Jul 07 20:48	15° <b>8</b>	
morning rise	1863 Nov 13 08:49	10°M33'45		retrograde	1869 Sep 09 15:58	21° <b>8</b> 00'21	
	1863 Dec 04 03:35	15°M		min. Earth dist.	1869 Nov 06 20:51	16° <b>8</b> 07'03	3.99591 AU
retrograde	1864 Mar 13 08:57	27°M35'54		opposition	1869 Nov 08 06:32	15° <b>8</b> 55'34	-1°18'37
opposition	1864 May 13 07:06	22°M44'02	1°10'05		1869 Nov 15 02:42	15° <b>₹</b> 8	
min. Earth dist.	1864 May 14 17:59	$22^{\circ}$ M $_32'55$	4.38108 AU	direct	1870 Jan 05 05:00	10° <b>8</b> 59'15	
direct	1864 Jul 14 20:26	17°M43'50			1870 Feb 24 11:14	15° <b>8</b>	
	1864 Oct 22 19:57	0° <b>∡</b> ¹			1870 May 09 13:21	$\Pi^{\circ}0$	
evening set	1864 Nov 17 15:35	5° <b>∡</b> ³34'31		evening set	1870 May 11 09:28	0° <b>Ⅱ</b> 25'42	
max. Earth dist.	1864 Nov 28 05:42	7° <b>∡</b> 56'39	6.32477 AU				
				conjunction	1870 May 25 02:28	3° <b>∏</b> 38′25	
conjunction	1864 Nov 30 07:30	8° <b>≯</b> 24'37	0°33'54	minimum elong	1870 May 25 02:31	3° <b>Ⅱ</b> 38′26	
minimum elong	1864 Nov 30 07:32	8° <b>₹</b> 24'38	0°33'53	max. Earth dist.	1870 May 27 09:56	4° <b>Ⅱ</b> 10'57	6.04756 AU
morning rise	1864 Dec 12 22:10	11° <b>х</b> 14'19		morning rise	1870 Jun 07 21:13	6° <b>Ⅱ</b> 51'49	
retrograde	1865 Apr 15 09:25	29°×700'42	0025100	retrograde	1870 Oct 15 01:04	26° <b>II</b> 27'52	4 11200 411
opposition	1865 Jun 15 07:17	24° 🖈 08'08	0°25'09	min. Earth dist.	1870 Dec 12 04:26	21° <b>II</b> 34'26	4.11289 AU
min. Earth dist.	1865 Jun 16 18:05	23° <b>尽</b> 57'02 19° <b>尽</b> 10'14	4.25840 AU	opposition	1870 Dec 13 13:15	21° <b>Ⅲ</b> 23'16 16° <b>Ⅲ</b> 23'58	-0°29'43
direct	1865 Aug 16 01:29 1865 Nov 15 00:53	19 <b>メ</b> ・10 14		direct	1871 Feb 10 07:40	10 <b>п</b> 23 38	
desc. node	1865 Dec 15 05:33	6° <b>る</b> 35'46		evening set	1871 May 24 04:17 1871 Jun 16 22:15	0 50 5°5014'57	
evening set	1865 Dec 19 09:00	7°る32'42		evening set	18/1 Juli 10 22.13	3 31437	
max. Earth dist.	1865 Dec 30 08:28	10°පි04'49	6.18680 AU	conjunction	1871 Jun 30 16:15	8° <b>5</b> 21'56	-0°00'54
max. Darm dist.	1003 Dec 30 00.20	10 00447	0.10000710	minimum elong	1871 Jun 30 16:15	8°921'56	0°00'54
conjunction	1866 Jan 01 01:34	10° <b>පි</b> 28'38	-0°01'40	behind sun begin	1871 Jun 30 07:53	8°917'13	0 00 54
minimum elong	1866 Jan 01 01:33	10° <b>る</b> 28'37		behind sun end	1871 Jul 01 00:38	8°926'40	
behind sun begin	1865 Dec 31 17:33	10° <b>る</b> 24'00		max. Earth dist.	1871 Jul 02 13:32	8°547'38	6.18513 AU
behind sun end	1866 Jan 01 09:33	10° <b>る</b> 33'13		asc. node	1871 Jul 09 17:16	10°524'53	
morning rise	1866 Jan 13 18:14	13° <b>る</b> 24'52		morning rise	1871 Jul 14 10:18	11° <b>©</b> 28'37	
	1866 Apr 12 00:17	0° <b>≈</b>		retrograde	1871 Nov 16 22:42	29° <b>©</b> 55'03	
retrograde	1866 May 20 14:46	2° <b>≈</b> 15'36		opposition	1872 Jan 15 15:59	24°953'04	0°26'17
	1866 Jun 28 14:27	30°R₹		min. Earth dist.	1872 Jan 14 17:30	25° <b>©</b> 00'38	4.25696 AU
opposition	1866 Jul 20 08:46	27° <b>る</b> 20'46	-0°30'44	direct	1872 Mar 15 16:25	19° <b>©</b> 51'21	
min. Earth dist.	1866 Jul 21 06:04		4.11447 AU		1872 Jun 12 00:32	$0^{\circ}\Omega$	
direct	1866 Sep 18 17:30	22° <b>る</b> 25'21		evening set	1872 Jul 20 14:32	8° <b>Ω</b> 04'40	
	1866 Nov 30 08:31	0° <b>≈</b>					
evening set	1867 Jan 21 22:01	11° <b>≈</b> 26'48		conjunction	1872 Aug 03 04:04	11° <b>Ω</b> 03'44	0°34'57
	10/771 02 10 00	1.40 20150	0020111	minimum elong	1872 Aug 03 04:02	11° <b>Ω</b> 03'43	0°34'57
conjunction	1867 Feb 03 18:00	14°≈29'58		max. Earth dist.	1872 Aug 04 01:12	11° <b>Ω</b> 15'23	6.32445 AU
minimum elong	1867 Feb 03 17:58	14°≈29'57		morning rise	1872 Aug 16 15:48	14° <b>Ω</b> 01'43	
max. Earth dist.	1867 Feb 03 00:45	14°≈19'41	6.04965 AU		1872 Aug 21 02:48	15° <b>Ω</b>	
morning rise	1867 Feb 05 20:21 1867 Feb 16 15:39	15° <b>≈</b> 17° <b>≈</b> 34'16		retrograde	1872 Nov 16 06:43 1872 Dec 17 02:20	0° Mp 1° Mp 29′03	
morning rise	1867 Apr 14 21:48	0° <b>\</b>		icuogiauc	1872 Dec 17 02:20 1873 Jan 16 17:08	1°11(29°03 30°R <b>Ω</b>	
retrograde	1867 Jun 27 00:32	0 <del>X</del> 7° <b>¥</b> 32'05		opposition	1873 Feb 15 02:05	30 kg2 26°Ω30'50	1°10'57
opposition	1867 Aug 26 07:36	2° <b>H</b> 33'47	-1°19'13	min. Earth dist.	1873 Feb 13 02:03	26° <b>Ω</b> 32'25	4.38064 AU
min. Earth dist.	1867 Aug 26 08:46		3.99682 AU	direct	1873 Apr 17 10:55	20° <b>Ω</b> 28'01	
	1867 Sep 15 19:26	2 7(33 2∓ 30°R≈		<del></del>	1873 Jul 07 18:57	0° m	
direct	1867 Oct 24 07:22	27° <b>≈</b> 39'59		evening set	1873 Aug 22 08:23	9° <b>m</b> ) 12'40	
				_			

conjunction	1873 Sep 04 14:26	12° Mp 04'39	0°59'04		1879 Jan 20 15:11	15° <b>≈</b>
minimum elong	1873 Sep 04 14:24	12° Mp 04'38	0°59'05	evening set	1879 Jan 26 17:57	16° <b>≈</b> 26'46
max. Earth dist.	1873 Sep 04 06:56	12° Mp 00'35	6.42289 AU			
morning rise	1873 Sep 17 17:50	14° <b>m</b> 55'14		conjunction	1879 Feb 08 14:45	19°≈31'04 -0°42'35
-	1873 Dec 13 01:54	0∘ <b>⊽</b>		minimum elong	1879 Feb 08 14:43	19°≈31'02 0°42'35
retrograde	1874 Jan 16 06:16	1° <b>≏</b> 47'22		max. Earth dist.	1879 Feb 08 01:17	19°≈23'01 6.03204 AU
retrograde	1874 Feb 19 10:15	30°R.M)		morning rise	1879 Feb 21 13:21	22°≈36'34
.,.			1024105	morning rise		
opposition	1874 Mar 17 15:09	26° m 52'33	1°34'05		1879 Mar 25 17:52	0° <b>X</b>
min. Earth dist.	1874 Mar 18 04:19	26° Mp 48'17	4.44879 AU	retrograde	1879 Jul 02 08:22	12° <b>)</b> 42′58
direct	1874 May 18 23:10	21° <b>m</b> 49'47		opposition	1879 Aug 31 13:28	7° <b>)</b> 44'12 -1°24'05
	1874 Aug 07 00:52	0∘ <b>⊽</b>		min. Earth dist.	1879 Aug 31 11:08	7° <b>光</b> 44′58 3.98364 AU
evening set	1874 Sep 22 14:49	9° <b>ჲ</b> 20'40		direct	1879 Oct 29 07:47	2° <b>升</b> 50′34
max. Earth dist.	1874 Oct 04 07:10	11° <b>≏</b> 51'56	6.45520 AU	evening set	1880 Mar 02 16:46	22° <b>升</b> 28'14
				<b>3</b>		
conjunction	1874 Oct 05 13:45	12° <b>ჲ</b> 08'30	1°06'25	conjunction	1880 Mar 15 20:09	25° <b>)</b> 38'59 -1°03'42
				·		
minimum elong	1874 Oct 05 13:45	12° <b>△</b> 08'30	1°06'24	minimum elong	1880 Mar 15 20:09	25°\(\frac{1}{38}\)'59 1°03'42
morning rise	1874 Oct 18 09:42	14° <b>≏</b> 54'58		max. Earth dist.	1880 Mar 16 14:53	25° <b>¥</b> 50′20 5.95474 AU
	1875 Jan 13 09:56	0° <b>M</b>		morning rise	1880 Mar 29 02:41	28° <b>¥</b> 51′27
retrograde	1875 Feb 15 12:06	1°M39'54			1880 Apr 02 21:04	0° <b>Ƴ</b>
	1875 Mar 20 17:07	30° <b>ŖΩ</b>		retrograde	1880 Aug 08 14:01	19° <b>Ƴ</b> 33'04
opposition	1875 Apr 17 05:21	26° <b>≏</b> 47'22	1°31'55	min. Earth dist.	1880 Oct 06 10:17	14° <b>Ƴ</b> 38'22 3.95003 AU
min. Earth dist.	1875 Apr 18 09:19	26° <b>₽</b> 38'25	4.44440 AU	opposition	1880 Oct 07 09:54	14° <b>Y</b> '30'24 -1°38'08
	-		4.44440 AU			9° <b>Υ</b> 36'12
direct	1875 Jun 18 23:31	21° <b>Ω</b> 45'39		direct	1880 Dec 04 07:45	
	1875 Sep 07 06:07	0° <b>M</b>		evening set	1881 Apr 09 02:37	29° <b>Y</b> 20′01
evening set	1875 Oct 23 04:34	9° <b>™</b> 19'43			1881 Apr 11 21:32	0° <b>8</b>
max. Earth dist.	1875 Nov 02 23:07	11° <b>M</b> 41'10	6.41361 AU			
				conjunction	1881 Apr 22 14:21	2° <b>8</b> 34'00 -1°00'04
conjunction	1875 Nov 04 22:23	12°ML07'08	0°55'49	minimum elong	1881 Apr 22 14:23	2° <b>8</b> 34'02 1°00'04
minimum elong	1875 Nov 04 22:25	12°M07'09	0°55'50	max. Earth dist.	1881 Apr 24 13:56	3° <b>8</b> 02'34 5.96758 AU
_	1875 Nov 17 14:07	14°M53'39	0 33 30		1881 May 06 04:52	5° <b>8</b> 49'24
morning rise				morning rise	•	
	1875 Nov 18 01:46	15° <b>™</b>			1881 Jun 15 16:45	15° <b>8</b>
	1876 Feb 10 09:32	0° <b>∡</b> ¹		retrograde	1881 Sep 14 20:14	26° <b>8</b> 14'10
retrograde	1876 Mar 17 21:05	1° <b>∡</b> ¹59'56		min. Earth dist.	1881 Nov 11 22:45	21° <b>8</b> 20'53 4.00854 AU
	1876 Apr 23 14:29	30°RM₊		opposition	1881 Nov 13 08:50	21° <b>8</b> 09'16 -1°13'00
opposition	1876 May 17 18:36	27°ML08'05	1°04'54	direct	1882 Jan 10 09:25	16° <b>8</b> 12'36
min. Earth dist.	1876 May 19 07:03	26°M₅56'28	4.36797 AU		1882 Apr 22 02:24	0° <b>I</b> I
direct	1876 Jul 19 07:01	22°M08'08		evening set	1882 May 16 15:05	5° <b>Ⅱ</b> 34'44
uncet				evening set	1002 Way 10 13.03	3 1134 44
	1876 Oct 04 11:10	0° <b>∡</b> 7				
evening set	1876 Nov 21 23:16	10° <b>∡</b> 02'11		conjunction	1882 May 30 08:29	8° <b>Ⅱ</b> 46'49 -0°33'15
max. Earth dist.	1876 Dec 02 13:33	12° <b>∡</b> 24′56	6.30801 AU	minimum elong	1882 May 30 08:31	8° <b>Ⅱ</b> 46'51 0°33'14
				max. Earth dist.	1882 Jun 01 16:07	9° <b>Ⅱ</b> 19'18 6.06559 AU
conjunction	1876 Dec 04 15:12	12° <b>∡</b> 52′56	0°29'25	morning rise	1882 Jun 13 03:38	11° <b>Ⅲ</b> 59'31
minimum elong	1876 Dec 04 15:14	12° <b>∡</b> 52'56	0°29'25		1882 Sep 19 23:36	0° <b>©</b>
morning rise	1876 Dec 17 05:53	15° <b>∡</b> ¹43'20		retrograde	1882 Oct 19 17:58	1°525'28
morning rise	1877 Mar 01 09:11	0°る		retrograde	1882 Nov 18 06:31	30°RⅡ
. 1				: T 4 II /		
retrograde	1877 Apr 20 02:11	3° <b>る</b> 37'30		min. Earth dist.	1882 Dec 16 22:50	26° <b>I</b> 32'19 4.13440 AU
	1877 Jun 10 02:21	30°₽ <b>⋌</b>		opposition	1882 Dec 18 07:54	26° <b>Ⅲ</b> 21'03 -0°21'47
opposition	1877 Jun 20 00:44	28° <b>∡</b> ⁴44'44	0°17'41	direct	1883 Feb 15 05:12	21° <b>Ⅱ</b> 21′21
min. Earth dist.	1877 Jun 21 09:46	28° <b>∡</b> ³34′10	4.23900 AU		1883 May 05 01:59	0ංඔ
direct	1877 Aug 20 14:00	23° <b>∡</b> ¹47'13		asc. node	1883 May 19 19:26	2° <b>©</b> 55'09
desc. node	1877 Oct 25 08:54	29° <b>∡</b> 53'47		evening set	1883 Jun 21 21:33	10°905'56
	1877 Oct 25 23:29	0°ਰ		8		
evening set	1877 Dec 23 21:52	12°る15'00		conjunction	1883 Jul 05 15:09	13°5511'42 0°04'33
•			C 1 C C 2 D A T I	•		
max. Earth dist.	1878 Jan 03 24:00	14° <b>5</b> 49'22	6.16638 AU	minimum elong	1883 Jul 05 15:09	13°511'42 0°04'34
				behind sun begin	1883 Jul 05 06:59	13° <b>©</b> 07'07
conjunction	1878 Jan 05 14:38	15° <b>る</b> 11'52		behind sun end	1883 Jul 05 23:19	13° <b>©</b> 16'18
minimum elong	1878 Jan 05 14:38	15° <b>る</b> 11'52	0°06'58	max. Earth dist.	1883 Jul 07 09:42	13°535'43 6.20840 AU
behind sun begin	1878 Jan 05 07:13	15° <b>る</b> 07'33		morning rise	1883 Jul 19 08:30	16°9517'02
behind sun end	1878 Jan 05 22:03	15° <b>ප</b> 16'10		<del>-</del>	1883 Sep 27 00:21	$0^{\circ}\Omega$
morning rise	1878 Jan 18 07:50	18° <b>ろ</b> 09'12		retrograde	1883 Nov 21 09:23	4° <b>Ω</b> 33'03
morning 1150		0°≈		ionogrado		
	1878 Mar 15 04:32				1884 Jan 16 14:13	30°RS
retrograde	1878 May 25 17:34	7° <b>≈</b> 09'51		min. Earth dist.	1884 Jan 19 07:37	29°538'06 4.27968 AU
opposition	1878 Jul 25 09:20	2° <b>≈</b> 14'39		opposition	1884 Jan 20 03:17	29°931'30 0°33'27
min. Earth dist.	1878 Jul 26 05:14	2° <b>≈</b> 08'12	4.09452 AU	direct	1884 Mar 20 09:42	24° <b>5</b> 29'32
	1878 Aug 12 09:02	30°Ŗる			1884 May 21 22:46	$0^{\circ}\Omega$
direct	1878 Sep 23 14:23	27° <b>る</b> 19'31		evening set	1884 Jul 25 05:58	12° <b>Ω</b> 36'43
	1878 Nov 03 22:41	0° <b>≈</b>		2	1884 Aug 05 03:38	15° <b>Ω</b>
	5.51.57 55 <b>22.11</b>	- · <del>-</del> ·			22.1.45 02 03.50	- ••

1907 Jul 02 14:38

evening set

19°532'24

desc. node

1901 Jul 16 03:59

6°る14'30

retrograde

1913 May 05 19:02

17°る50'22

1919 Mar 02 16:35

direct

5°9545'31

				),		, r6>
evening set	1919 Jul 07 10:01	24°513'40		behind sun begin	1924 Dec 22 23:03	1° <b>る</b> 04'35
8				behind sun end	1924 Dec 23 12:06	1° <b>る</b> 12'02
conjunction	1919 Jul 21 02:08	27°©16'12	0°20'00	morning rise	1925 Jan 04 21:11	4° <b>る</b> 02'13
minimum elong	1919 Jul 21 02:07	27°©16'11	0°19'59	desc. node	1925 Apr 06 11:27	20°₹44'44
max. Earth dist.	1919 Jul 22 11:17	27°534'40	6.26795 AU	retrograde	1925 May 10 15:30	22° <b>る</b> 31'08
	1919 Aug 02 08:38	$0^{\circ}\Omega$		opposition	1925 Jul 10 10:24	17°る37'13 -0°13'27
morning rise	1919 Aug 03 17:01	0° <b>Ω</b> 17'54		min. Earth dist.	1925 Jul 11 13:43	17°る28'26 4.15995 AU
	1919 Oct 20 21:43	15° <b>Ω</b>		direct	1925 Sep 09 07:17	12° <b>石</b> 41'04
retrograde	1919 Dec 05 09:36	18° <b>Ω</b> 08'33			1926 Jan 06 01:00	0° <b>≈</b>
•	1920 Jan 19 23:51	15°R <b>Ω</b>		evening set	1926 Jan 12 11:09	1°≈29'57
opposition	1920 Feb 03 06:30	13° <b>Ω</b> 08'39	0°53'15	max. Earth dist.	1926 Jan 24 03:02	4°≈14'59 6.09058 AU
min. Earth dist.	1920 Feb 02 17:39	13° <b>Ω</b> 12'56	4.33219 AU			
direct	1920 Apr 04 01:37	8° <b>Ω</b> 06′12		conjunction	1926 Jan 25 05:41	4°≈30'45 -0°27'38
	1920 Jun 14 14:07	15° <b>Ω</b>		minimum elong	1926 Jan 25 05:39	4°≈30'44 0°27'37
evening set	1920 Aug 08 23:32	26° <b>Ω</b> 01'39		morning rise	1926 Feb 07 01:32	7° <b>≈</b> 32'27
C	Č			Č	1926 Mar 11 23:25	15° <b>≈</b>
conjunction	1920 Aug 22 09:01	28° <b>Ω</b> 56'32	0°50'08	retrograde	1926 Jun 16 08:35	27°≈10'02
minimum elong	1920 Aug 22 08:59	28° <b>Ω</b> 56'31	0°50'08	opposition	1926 Aug 15 20:07	22°≈12'57 -1°06'22
max. Earth dist.	1920 Aug 22 13:09		6.38634 AU	min. Earth dist.	1926 Aug 16 03:31	22°≈10'31 4.02904 AU
	1920 Aug 27 05:29	0° m		direct	1926 Oct 14 04:48	17°≈18'49
morning rise	1920 Sep 04 16:18	1° m/50'07			1927 Jan 18 11:43	0° <b>\</b>
retrograde	1921 Jan 03 21:37	18° <b>m</b> 54'52		evening set	1927 Feb 16 10:49	6° <b>)</b> 43′52
opposition	1921 Mar 05 02:15	13° m 58'40	1°26'39	evening sec	1927 100 10 10.19	0 7(15 52
min. Earth dist.	1921 Mar 05 08:08	13° Mp 56'45		conjunction	1927 Mar 01 10:53	9° <b>)</b> 51'48 -0°56'49
direct	1921 May 06 01:48	8° m 55'45	20) / 110	minimum elong	1927 Mar 01 10:51	9° <b>)</b> €51'47 0°56'49
evening set	1921 Sep 09 20:08	26° mp 31'11		max. Earth dist.	1927 Mar 01 15:28	9° <b>)</b> 54'34 5.98288 AU
evening set	1921 Бер 09 20.00	20 11/3111		morning rise	1927 Mar 14 13:26	13° <b>米</b> 01′14
conjunction	1921 Sep 22 22:12	29° m 20'32	1°05'15	morning rise	1927 Jun 06 10:13	0° <b>Υ</b>
minimum elong	1921 Sep 22 22:12 1921 Sep 22 22:11	29° m 20'31	1°05'16	retrograde	1927 Jul 24 13:09	3° <b>Υ</b> 31'14
max. Earth dist.	1921 Sep 22 22:11 1921 Sep 22 01:17	29° m 09'13	6.44834 AU	renograde	1927 Sep 11 03:44	30°R <b></b> ₩
max. Lartii dist.	1921 Sep 25 23:10	0° <b>ت</b>	0.44034 AC	opposition	1927 Sep 11 03:44 1927 Sep 22 12:37	28° <b>升</b> 30′15 -1°36′32
morning rise	1921 Oct 05 21:14	ა <b>—</b> 2° <b>ჲ</b> 08'27		min. Earth dist.	1927 Sep 21 22:32	28°\(\)34'57 3.95682 AU
retrograde	1922 Feb 02 23:30	18° <b>£</b> 53'45		direct	1927 Sep 21 22:32 1927 Nov 19 18:48	23°\(\frac{1}{3}\)36'32
opposition	1922 Apr 04 13:44	14° <b>⊆</b> 00'22	1°35'54	direct	1928 Jan 23 02:54	25 <b>γ</b> (30 32 0° <b>γ</b>
min. Earth dist.	1922 Apr 04 13:44 1922 Apr 05 11:20	13° <b>£</b> 53'25	4.45390 AU	evening set	1928 Mar 24 06:46	13° <b>Υ</b> 19'57
direct	1922 Apr 05 11:20 1922 Jun 06 04:49	8° <b>⊆</b> 58'08	4.43370 AC	evening set	1)20 Wai 24 00.40	13   1737
evening set	1922 Oct 10 15:37	26° <b>£</b> 29'15		conjunction	1928 Apr 06 14:41	16° <b>Ƴ</b> 32'52 -1°04'51
max. Earth dist.	1922 Oct 10 13:37		6.43939 AU	minimum elong	1928 Apr 06 14:42	16° <b>Υ</b> 32'53 1°04'51
max. Earth dist.	1922 Oct 21 18.10	28 = 34 02	0.43939 AU	max. Earth dist.	1928 Apr 08 02:52	16° <b>Υ</b> 54'43 5.95250 AU
conjunction	1922 Oct 23 11:25	29° <b>£</b> 16′28	1°02'34	morning rise	1928 Apr 00 02:32 1928 Apr 20 01:42	19° <b>Υ</b> 47'26
minimum elong	1922 Oct 23 11:26	29° <b>⊆</b> 16′29	1°02'33	morning risc	1928 Apr 20 01:42 1928 Jun 04 04:50	0° <b>8</b>
minimum ciong	1922 Oct 26 19:16	0°M	1 02 33	retrograde	1928 Aug 30 09:19	10° <b>8</b> 25'20
morning rise	1922 Nov 05 04:43	2°M02'33		min. Earth dist.	1928 Aug 30 05:15 1928 Oct 27 17:51	5° <b>8</b> 31'38 3.97318 AU
morning rise	1923 Jan 12 16:35	15°M		opposition	1928 Oct 29 00:41	5° <b>8</b> 21'10 -1°28'29
retrograde	1923 Mar 05 18:50	18°M56'21		direct	1928 Dec 25 20:33	0° <b>8</b> 25'46
retrograde	1923 Apr 28 06:53	15°RM		direct	1929 Apr 09 07:01	15° <b>8</b>
opposition	1923 May 05 14:40	14°M04'24	1°19'38	evening set	1929 Apr 30 21:44	20° <b>8</b> 00'08
min. Earth dist.	1923 May 07 00:37	13°M53'35	4.40892 AU	evening see	1,2,11pr 30 21	20 00000
direct	1923 Jul 07 08:21	9°M03'34		conjunction	1929 May 14 12:59	23° <b>8</b> 13'40 -0°47'23
	1923 Sep 11 19:26	15°M		minimum elong	1929 May 14 12:39	23° <b>8</b> 13'41 0°47'23
evening set	1923 Nov 10 05:55	26°M47'06		max. Earth dist.	1929 May 16 17:51	23°844'58 6.01316 AU
max. Earth dist.	1923 Nov 20 20:14	29°M08'06	6.36109 AU	morning rise	1929 May 28 06:48	26° <b>8</b> 28'16
man zam ust.	1,231,01,20,20.11	27 110 00 00	0.50107110	morning 115¢	1929 Jun 12 12:20	0° <b>Ⅱ</b>
conjunction	1923 Nov 22 22:24	29°M36'00	0°42'44	retrograde	1929 Oct 05 09:56	16° <b>Ⅲ</b> 24′21
minimum elong	1923 Nov 22 22:26	29°M36'01	0°42'44	opposition	1929 Dec 03 23:02	11° <b>I</b> 19'23 -0°46'25
mmmum viong	1923 Nov 24 17:31	0° <b>∡</b> 7	0 .2	min. Earth dist.	1929 Dec 02 12:30	11° <b>Д</b> 31'11 4.07089 AU
morning rise	1923 Dec 05 13:11	2° <b>∡</b> 124'17		direct	1930 Jan 31 09:17	6° <b>Ⅲ</b> 21'01
retrograde	1924 Apr 06 01:27	19° <b>×</b> 754'06		evening set	1930 Jun 06 21:09	25° <b>I</b> [24'11
opposition	1924 Apr 00 01:27 1924 Jun 06 00:49	15°×701'55	0°40'31		-,500 am 00 21.0)	
min. Earth dist.	1924 Jun 07 12:08	14° 🖈 50'39	4.30132 AU	conjunction	1930 Jun 20 15:34	28° <b>I</b> 33'22 -0°12'45
direct	1924 Aug 07 02:11	10°×703'15		minimum elong	1930 Jun 20 15:35	28° <b>I</b> [33'23 0°12'44
evening set	1924 Dec 10 13:30	28°×14'29		behind sun begin	1930 Jun 20 10:29	28°II30'28
3.0	1924 Dec 10 15:30 1924 Dec 18 06:25	0°る		behind sun end	1930 Jun 20 20:41	28° <b>I</b> I36'17
max. Earth dist.	1924 Dec 18 00:23 1924 Dec 21 09:12		6.23273 AU	max. Earth dist.	1930 Jun 20 20:41 1930 Jun 22 18:19	29° <b>I</b> 102'28 6.13917 AU
Zurur uist.	1,2.200 21 0,.12	U 12 31	5.25275710	Durin dist.	1930 Jun 26 22:41	29 <b>H</b> 0228 0.13917 AC 0° <b>ඉ</b>
conjunction	1924 Dec 23 05:35	1° <b>る</b> 08'19	0°09'53	morning rise	1930 Jul 04 10:25	1° <b>©</b> 42'32
minimum elong	1924 Dec 23 05:35	1° <b>ප</b> 08'19		asc. node	1930 Oct 30 14:16	20°523'44
	-, 3 00 20 00.00	2 30 17				

retrograde	1930 Nov 08 03:21	20°530'55	0000100	max. Earth dist.	1936 Dec 25 20:11	5° <b>පි</b> 20'30	6.21315 AU
opposition	1931 Jan 06 17:54	15°927'58	0°09'38	. ,.	1026 D 27 1615	50745150	0004143
min. Earth dist.	1931 Jan 05 15:36	15°936'51	4.21132 AU	conjunction	1936 Dec 27 16:15	5°₹45'52	
direct	1931 Mar 07 08:40	10°926'57		minimum elong	1936 Dec 27 16:15	5° <b>る</b> 45'53	0°04'44
evening set	1931 Jul 12 04:28	28°951'41		behind sun begin	1936 Dec 27 08:27	5° <b>る</b> 41'25	
	1931 Jul 17 07:51	$0$ ° $\Omega$		behind sun end	1936 Dec 28 00:03	5°る50'21	
	1021 1 1 25 10 10	10.052110	0024140	morning rise	1937 Jan 09 08:21	8° <b>る</b> 40'47	
conjunction	1931 Jul 25 19:49	1° <b>Ω</b> 53'19	0°24'48	desc. node	1937 Feb 14 18:51	16°る40'07	
minimum elong	1931 Jul 25 19:47	1° <b>£</b> 53′18	0°24'49	retrograde	1937 May 15 13:02	27°る19'01	0001110
max. Earth dist.	1931 Jul 27 01:01	2° <b>Ω</b> 09'32	6.28256 AU	opposition	1937 Jul 15 08:15	22°る24'43	
morning rise	1931 Aug 08 10:03	4° <b>£</b> 54'04		min. Earth dist.	1937 Jul 16 08:42		4.13983 AU
	1931 Sep 26 15:11	15° <b>Ω</b>		direct	1937 Sep 13 23:18	17° <b>る</b> 28'52	
retrograde	1931 Dec 09 17:29	22° <b>Ω</b> 38'14			1937 Dec 20 04:05	0° <b>≈</b>	
opposition	1932 Feb 07 15:08	17° <b>Ω</b> 38'47		evening set	1938 Jan 17 04:11	6° <b>≈</b> 23'27	
min. Earth dist.	1932 Feb 07 04:23	17° <b>Ω</b> 42'22	4.34548 AU				
	1932 Feb 28 16:08	15°R <b>Ω</b>		conjunction	1938 Jan 29 23:22	9° <b>≈</b> 25'19	
direct	1932 Apr 08 14:10	12° <b>Ω</b> 36'10		minimum elong	1938 Jan 29 23:20	9° <b>≈</b> 25'18	0°32'30
	1932 May 18 23:19	15° <b>Ω</b>		max. Earth dist.	1938 Jan 29 00:57	9° <b>≈</b> 12'00	6.07172 AU
	1932 Aug 11 07:16	0° <b>m</b> ∕		morning rise	1938 Feb 11 19:55	12° <b>≈</b> 28′10	
evening set	1932 Aug 13 12:31	0° <b>m</b> ,28'43			1938 Feb 22 15:27	15° <b>≈</b>	
					1938 May 14 07:45	0° <b>∀</b>	
conjunction	1932 Aug 26 21:08	3° Mp 22'45	0°53'13	retrograde	1938 Jun 21 15:30	2° <b>∺</b> 15′09	
minimum elong	1932 Aug 26 21:06	3° Mp 22'44	0°53'12		1938 Jul 30 03:02	30° <b>₹</b> ≈	
max. Earth dist.	1932 Aug 26 23:30	3° Mp 24'02	6.39729 AU	opposition	1938 Aug 21 00:21	27° <b>≈</b> 17'33	-1°12'24
morning rise	1932 Sep 09 03:06	6° Mp 15′24		min. Earth dist.	1938 Aug 21 05:50	27° <b>≈</b> 15'45	4.01320 AU
retrograde	1933 Jan 08 02:22	23°M) 16'02		direct	1938 Oct 19 05:46	22° <b>≈</b> 23'34	
opposition	1933 Mar 09 08:39	18° <b>m</b> 20'16	1°29'25		1938 Dec 29 18:34	0° <b>ℋ</b>	
min. Earth dist.	1933 Mar 09 15:59	18° <b>m</b> )17'53	4.43381 AU	evening set	1939 Feb 21 11:11	11° <b>∺</b> 53'09	
direct	1933 May 10 10:21	13° <b>m</b> ) 17'25					
	1933 Sep 10 05:10	0∘ <b>ত</b>		conjunction	1939 Mar 06 12:15	15° <b>₩</b> 02'03	-0°59'25
evening set	1933 Sep 14 04:49	0° <b>£</b> 51′08		minimum elong	1939 Mar 06 12:14	15° <b>₩</b> 02'02	0°59'25
max. Earth dist.	1933 Sep 26 04:37	3° <b>≏</b> 26'20	6.45211 AU	max. Earth dist.	1939 Mar 06 21:08	15° <b>∺</b> 07'25	5.97153 AU
				morning rise	1939 Mar 19 16:01	18° <b>ℋ</b> 12'32	
conjunction	1933 Sep 27 05:43	3° <b>ഫ</b> 39'55	1°05'56		1939 May 11 14:08	$0^{\circ}\mathbf{\Upsilon}$	
minimum elong	1933 Sep 27 05:43	3° <b>£</b> 39'54	1°05'56	retrograde	1939 Jul 29 21:01	8° <b>Ƴ</b> 47'32	
morning rise	1933 Oct 10 03:56	6° <b>£</b> 27'19		opposition	1939 Sep 27 19:06	3° <b>Y</b> 46'03	-1°37'50
retrograde	1934 Feb 07 06:19	23° <b>£</b> 11'44		min. Earth dist.	1939 Sep 27 01:39	3° <b>Y</b> 51'53	3.95167 AU
opposition	1934 Apr 08 20:32	18° <b>≙</b> 18'38	1°35'05		1939 Oct 30 00:46	30° <b>₹</b> ₩	
min. Earth dist.	1934 Apr 09 20:52	18° <b>≙</b> 10'48	4.45317 AU	direct	1939 Nov 24 21:17	28° <b>¥</b> 52'16	
direct	1934 Jun 10 13:41	13° <b>≏</b> 16′28			1939 Dec 20 17:02	$0$ $^{\circ}$ $\Upsilon$	
	1934 Oct 11 04:55	0°M₊		evening set	1940 Mar 29 12:36	18° <b>Ƴ</b> 36'55	
evening set	1934 Oct 14 21:34	0°M47'50					
max. Earth dist.	1934 Oct 25 22:25	3°M11'51	6.43387 AU	conjunction	1940 Apr 11 21:35	21° <b>Y</b> 50'18	-1°03'51
				minimum elong	1940 Apr 11 21:36	21° <b>Y</b> 50'18	1°03'51
conjunction	1934 Oct 27 16:52	3°M35'01	1°00'44	max. Earth dist.	1940 Apr 13 12:26	22° <b>Ƴ</b> 13'44	5.95394 AU
minimum elong	1934 Oct 27 16:53	3°M35'02	1°00'44	morning rise	1940 Apr 25 09:50	25° <b>Y</b> 05′19	
morning rise	1934 Nov 09 09:31	6°M21′06			1940 May 16 07:54	$9^{\circ}$ 8	
	1934 Dec 21 15:03	15° <b>M</b> ₊			1940 Aug 15 04:43	15° <b>8</b>	
retrograde	1935 Mar 10 02:47	23°M17'49		retrograde	1940 Sep 04 13:00	15° <b>8</b> 40'48	
opposition	1935 May 10 00:20	18°M25'54	1°15'24		1940 Sep 24 19:17	15° <b>₹</b> 8	
min. Earth dist.	1935 May 11 10:14	18° <b>M</b> ₊15'05	4.39876 AU	min. Earth dist.	1940 Nov 01 19:51	10° <b>8</b> 47'22	3.98125 AU
	1935 Jun 08 18:44	15°RM₊		opposition	1940 Nov 03 04:19	10° <b>8</b> 36'19	-1°24'15
direct	1935 Jul 11 15:39	13°M25'20		direct	1940 Dec 31 01:20	5° <b>8</b> 40'33	
	1935 Aug 13 14:15	15° <b>M</b> ₊			1941 Mar 21 04:26	15° <b>8</b>	
	1935 Nov 09 02:55	0° <b>∡</b> ¹		evening set	1941 May 06 03:47	25° <b>8</b> 11'57	
evening set	1935 Nov 14 12:35	1° <b>∡</b> 11′24					
max. Earth dist.	1935 Nov 25 02:44	3° <b>҂</b> ³32'48	6.34692 AU	conjunction	1941 May 19 19:59	28° <b>8</b> 25'14	
				minimum elong	1941 May 19 20:01	28° <b>8</b> 25'15	0°43'14
conjunction	1935 Nov 27 04:44	4° <b>₮</b> 00'44	0°38'47	max. Earth dist.	1941 May 22 03:39	28° <b>8</b> 58'03	6.02744 AU
minimum elong	1935 Nov 27 04:46	4° <b>₰</b> 00'45	0°38'47		1941 May 26 12:48	$\Pi^{\circ}0$	
morning rise	1935 Dec 09 19:25	6° <b>∡</b> 749'32		morning rise	1941 Jun 02 14:11	1° <b>Ⅱ</b> 39′22	
retrograde	1936 Apr 10 17:49	24° <b>∡</b> ¹25'59		retrograde	1941 Oct 10 08:00	21° <b>Ⅱ</b> 26'46	
opposition	1936 Jun 10 16:02	19° <b>∡</b> ³33'41	0°33'37	min. Earth dist.	1941 Dec 07 10:04	16° <b>Ⅲ</b> 33'33	4.08980 AU
min. Earth dist.	1936 Jun 12 03:59	19° <b>∡</b> 22'13	4.28374 AU	opposition	1941 Dec 08 20:12	16° <b>Ⅱ</b> 21'55	-0°38'52
direct	1936 Aug 11 14:59	14° <b>∡</b> ³35′20		direct	1942 Feb 05 10:02	11° <b>Ⅱ</b> 23'09	
	1936 Dec 02 08:38	0°ರ			1942 Jun 10 10:36	$0$ $\circ$ $\odot$	
evening set	1936 Dec 15 00:02	2° <b>ප</b> 51'11		evening set	1942 Jun 11 22:33	0°520'23	

	1040 Y 05 16 42	20520120	0007122	1:	1040 4 16 00 40	100 70001	
conjunction	1942 Jun 25 16:43	3°528'30		direct	1948 Aug 16 00:40	19° <b>₹</b> 06'01	
minimum elong	1942 Jun 25 16:44	3° <b>5</b> 28'31	0°07'23		1948 Nov 15 10:38	0° <b>ろ</b>	
behind sun begin	1942 Jun 25 09:06	3° <b>©</b> 24'11		evening set	1948 Dec 19 11:04	7° <b>る</b> 28'34	
behind sun end	1942 Jun 26 00:21	3° <b>©</b> 32'50		desc. node	1948 Dec 26 14:41	9° <b>る</b> 07'27	
max. Earth dist.	1942 Jun 27 17:27	3° <b>©</b> 56'18	6.16106 AU	max. Earth dist.	1948 Dec 30 09:44	10° <b>ろ</b> 00'10	6.18828 AU
morning rise	1942 Jul 09 11:20	6° <b>ॐ</b> 36'31					
asc. node	1942 Sep 09 17:44	19° <b>©</b> 18'30		conjunction	1949 Jan 01 03:36	10° <b>る</b> 24'25	-0°00'33
retrograde	1942 Nov 12 14:25	25° <b>©</b> 14'19		minimum elong	1949 Jan 01 03:34	10° <b>る</b> 24'24	0°00'32
min. Earth dist.	1943 Jan 10 05:56	20° <b>©</b> 20'13	4.23413 AU	behind sun begin	1948 Dec 31 19:36	10° <b>る</b> 19'48	
opposition	1943 Jan 11 07:12	20°©11'41	0°17'15	behind sun end	1949 Jan 01 11:33	10° <b>る</b> 29'00	
direct	1943 Mar 12 02:11	15° <b>©</b> 10'19		morning rise	1949 Jan 13 20:11	13° <b>る</b> 20'34	
	1943 Jun 30 21:45	$0^{\circ}\Omega$		8 3	1949 Apr 12 19:17	0° <b>≈</b>	
evening set	1943 Jul 16 22:20	3° <b>Ω</b> 28'43		retrograde	1949 May 20 15:34	2°≈10'21	
evening see	1713341 10 22.20	3 0020 13		rearograde	1949 Jun 27 18:30	30°Rる	
conjunction	1943 Jul 30 12:54	6° <b>Ω</b> 29'03	0°29'28	opposition	1949 Jul 20 08:07	27°る15'42	0°20'05
minimum elong	1943 Jul 30 12:52	6° <b>Ω</b> 29'02	0°29'28	min. Earth dist.	1949 Jul 21 07:12	27°る1342 27°る08'14	4.11501 AU
max. Earth dist.							4.11301 AU
	1943 Jul 31 15:11	6° <b>Ω</b> 43'36	6.30455 AU	direct	1949 Sep 18 18:47	22° <b>る</b> 20'12	
morning rise	1943 Aug 13 01:54	9° <b>Ω</b> 28'23			1949 Nov 30 20:07	0° <b>≈</b>	
	1943 Sep 07 22:51	15° <b>Ω</b>		evening set	1950 Jan 21 23:43	11° <b>≈</b> 22′13	
retrograde	1943 Dec 13 23:25	27° <b>Ω</b> 03'43					
opposition	1944 Feb 11 22:12	22° <b>Ω</b> 04'46	1°04'33	conjunction	1950 Feb 03 19:41	14° <b>≈</b> 25′24	-0°37'09
min. Earth dist.	1944 Feb 11 14:09	22° <b>Ω</b> 07′26	4.36486 AU	minimum elong	1950 Feb 03 19:39	14° <b>≈</b> 25′22	0°37'09
direct	1944 Apr 13 02:11	17° <b>Ω</b> 02'02		max. Earth dist.	1950 Feb 03 01:06	14° <b>≈</b> 14'19	6.04932 AU
	1944 Jul 26 01:03	0° <b>™</b>			1950 Feb 06 05:43	15° <b>≈</b>	
evening set	1944 Aug 17 22:58	4° <b>₯</b> 49'40		morning rise	1950 Feb 16 17:14	17° <b>≈</b> 29'40	
	•			•	1950 Apr 15 08:58	0° <b>∀</b>	
conjunction	1944 Aug 31 06:22	7° m 42'36	0°55'56	retrograde	1950 Jun 27 00:14	7° <b>)</b> €27'07	
minimum elong	1944 Aug 31 06:20	7° mp 42'35	0°55'55	opposition	1950 Aug 26 07:13	2° <b>)</b> (29'03	-1°17'57
max. Earth dist.	1944 Aug 31 03:36	7° Mp 41'06	6.41236 AU	min. Earth dist.	1950 Aug 26 08:31		3.99578 AU
morning rise	1944 Sep 13 11:16	10° Mp 34'11	0.41230710	mm. Earth dist.	1950 Sep 15 02:23	30°R≈	3.77376710
•	1944 Sep 13 11:10 1945 Jan 12 04:51	27° Mp 29'49		direct	1950 Sep 13 02:23 1950 Oct 24 06:34	27°≈35'19	
retrograde		•	1021126	direct		27 <b>≈</b> 33 19 0° <b>)</b> €	
opposition	1945 Mar 13 12:32	22°M)34'25	1°31'36	. ,	1950 Dec 01 19:56		
min. Earth dist.	1945 Mar 13 22:51	22° Tp 31'03	4.44374 AU	evening set	1951 Feb 26 15:19	17° <b>) (</b> 10′03	
direct	1945 May 14 17:27	17° <b>m</b> 31'30					
	1945 Aug 25 06:05	0∘ <b>⊽</b>		conjunction	1951 Mar 11 17:24	20° <b>)</b> 19′57	
evening set	1945 Sep 18 09:46	0° <b>ჲ</b> 5° <b>ჲ</b> 02'57		conjunction minimum elong	1951 Mar 11 17:24 1951 Mar 11 17:23	20° <b>)</b> 19′56	
evening set max. Earth dist.	•		6.45604 AU	·			
•	1945 Sep 18 09:46	5° <b>ჲ</b> 02'57	6.45604 AU	minimum elong	1951 Mar 11 17:23	20° <b>)</b> 19′56	1°01'33
•	1945 Sep 18 09:46	5° <b>ჲ</b> 02'57		minimum elong max. Earth dist.	1951 Mar 11 17:23 1951 Mar 12 06:56	20°¥19'56 20°¥28'09	1°01'33
max. Earth dist.	1945 Sep 18 09:46 1945 Sep 30 06:38	5° <b>£</b> 02'57 7° <b>£</b> 36'28		minimum elong max. Earth dist.	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27	20°¥19'56 20°¥28'09 23°¥31'29	1°01'33
max. Earth dist.  conjunction  minimum elong	1945 Sep 18 09:46 1945 Sep 30 06:38 1945 Oct 01 09:53 1945 Oct 01 09:53	5° <b>£</b> 02'57 7° <b>£</b> 36'28 7° <b>£</b> 51'12 7° <b>£</b> 51'12	1°06'14	minimum elong max. Earth dist. morning rise	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54	20° <del>X</del> 19'56 20° <del>X</del> 28'09 23° <del>X</del> 31'29 0° <b>Υ</b> 14° <b>Υ</b> 10'46	1°01'33 5.96066 AU
max. Earth dist.  conjunction minimum elong morning rise	1945 Sep 18 09:46 1945 Sep 30 06:38 1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59	5°\$\Omega\$02'57 7°\$\Omega\$36'28 7°\$\Omega\$51'12 7°\$\Omega\$51'12 10°\$\Omega\$38'04	1°06'14	minimum elong max. Earth dist. morning rise retrograde min. Earth dist.	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23	20° χ 19'56 20° χ 28'09 23° χ 31'29 0° γ 14° γ 10'46 9° γ 15'41	1°01'33 5.96066 AU 3.94871 AU
max. Earth dist.  conjunction minimum elong morning rise retrograde	1945 Sep 18 09:46 1945 Sep 30 06:38 1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59 1946 Feb 11 08:26	5° \( \Omega\) 02'57 7° \( \Omega\) 36'28 7° \( \Omega\) 51'12 7° \( \Omega\) 51'12 10° \( \Omega\) 38'04 27° \( \Omega\) 22'00	1°06'14 1°06'13	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23 1951 Oct 03 04:07	20° <del>X</del> 19'56 20° <del>X</del> 28'09 23° <del>X</del> 31'29 0° Υ 14° Υ 10'46 9° Υ 15'41 9° Υ 08'42	1°01'33 5.96066 AU 3.94871 AU
max. Earth dist.  conjunction minimum elong morning rise retrograde opposition	1945 Sep 18 09:46 1945 Sep 30 06:38 1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59 1946 Feb 11 08:26 1946 Apr 13 00:33	5° \( \Omega\) 02'57 7° \( \Omega\) 36'28 7° \( \Omega\) 51'12 7° \( \Omega\) 51'12 10° \( \Omega\) 38'04 27° \( \Omega\) 22'00 22° \( \Omega\) 29'07	1°06'14 1°06'13 1°33'47	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition direct	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23 1951 Oct 03 04:07 1951 Nov 30 04:08	20° <del>X</del> 19'56 20° <del>X</del> 28'09 23° <del>X</del> 31'29 0° Υ 14° Υ 10'46 9° Υ 15'41 9° Υ 08'42 4° Υ 14'46	1°01'33 5.96066 AU 3.94871 AU
max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist.	1945 Sep 18 09:46 1945 Sep 30 06:38 1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59 1946 Feb 11 08:26 1946 Apr 13 00:33 1946 Apr 14 02:36	5° \( \Omega\) 02'57 7° \( \Omega\) 36'28 7° \( \Omega\) 51'12 7° \( \Omega\) 51'12 10° \( \Omega\) 38'04 27° \( \Omega\) 22'00 22° \( \Omega\) 29'07 22° \( \Omega\) 20'46	1°06'14 1°06'13	minimum elong max. Earth dist. morning rise retrograde min. Earth dist. opposition	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23 1951 Oct 03 04:07	20° <del>X</del> 19'56 20° <del>X</del> 28'09 23° <del>X</del> 31'29 0° Υ 14° Υ 10'46 9° Υ 15'41 9° Υ 08'42	1°01'33 5.96066 AU 3.94871 AU
max. Earth dist.  conjunction minimum elong morning rise retrograde opposition	1945 Sep 18 09:46 1945 Sep 30 06:38 1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59 1946 Feb 11 08:26 1946 Apr 13 00:33 1946 Apr 14 02:36 1946 Jun 14 18:05	5° \omega 02'57 7° \omega 36'28 7° \omega 51'12 7° \omega 51'12 10° \omega 38'04 27° \omega 22'00 22° \omega 29'07 22° \omega 20'46 17° \omega 27'07	1°06'14 1°06'13 1°33'47	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23 1951 Oct 03 04:07 1951 Nov 30 04:08 1952 Apr 03 21:02	20°\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\	1°01'33 5.96066 AU 3.94871 AU -1°38'16
max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct	1945 Sep 18 09:46 1945 Sep 30 06:38 1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59 1946 Feb 11 08:26 1946 Apr 13 00:33 1946 Apr 14 02:36 1946 Jun 14 18:05 1946 Sep 25 10:19	5° \( \Omega\) 02'57 7° \( \Omega\) 36'28 7° \( \Omega\) 51'12 7° \( \Omega\) 51'12 10° \( \Omega\) 38'04 27° \( \Omega\) 22'00 22° \( \Omega\) 29'07 22° \( \Omega\) 20'46 17° \( \Omega\) 27'07 0° \( \mathbb{M}\).	1°06'14 1°06'13 1°33'47	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23 1951 Oct 03 04:07 1951 Nov 30 04:08 1952 Apr 03 21:02	20°\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\	1°01'33 5.96066 AU 3.94871 AU -1°38'16
max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct  evening set	1945 Sep 18 09:46 1945 Sep 30 06:38 1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59 1946 Feb 11 08:26 1946 Apr 13 00:33 1946 Apr 14 02:36 1946 Jun 14 18:05 1946 Sep 25 10:19 1946 Oct 19 00:54	5° \$\Omega 02'57 7° \$\Omega 36'28  7° \$\Omega 51'12 7° \$\Omega 51'12 10° \$\Omega 38'04 27° \$\Omega 22'00 22° \$\Omega 29'07 22° \$\Omega 20'46 17° \$\Omega 27'07 0° \$\Omega 4\$^ \$\Omega 59'21	1°06'14 1°06'13 1°33'47 4.45085 AU	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23 1951 Oct 03 04:07 1951 Nov 30 04:08 1952 Apr 03 21:02 1952 Apr 17 07:21 1952 Apr 17 07:22	20°\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\	1°01'33 5.96066 AU 3.94871 AU -1°38'16 -1°02'17 1°02'16
max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct	1945 Sep 18 09:46 1945 Sep 30 06:38 1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59 1946 Feb 11 08:26 1946 Apr 13 00:33 1946 Apr 14 02:36 1946 Jun 14 18:05 1946 Sep 25 10:19	5° \( \Omega\) 02'57 7° \( \Omega\) 36'28 7° \( \Omega\) 51'12 7° \( \Omega\) 51'12 10° \( \Omega\) 38'04 27° \( \Omega\) 22'00 22° \( \Omega\) 29'07 22° \( \Omega\) 20'46 17° \( \Omega\) 27'07 0° \( \mathbb{M}\).	1°06'14 1°06'13 1°33'47	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23 1951 Oct 03 04:07 1951 Nov 30 04:08 1952 Apr 03 21:02 1952 Apr 17 07:21 1952 Apr 17 07:22 1952 Apr 19 03:53	20°\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\	1°01'33 5.96066 AU 3.94871 AU -1°38'16
max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct  evening set max. Earth dist.	1945 Sep 18 09:46 1945 Sep 30 06:38 1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59 1946 Feb 11 08:26 1946 Apr 13 00:33 1946 Apr 14 02:36 1946 Jun 14 18:05 1946 Sep 25 10:19 1946 Oct 19 00:54 1946 Oct 29 21:34	5° \$\textit{\Omega}_02'57 7° \$\textit{\Omega}_36'28 7° \$\textit{\Omega}_51'12 7° \$\textit{\Omega}_51'12 10° \$\textit{\Omega}_38'04 27° \$\textit{\Omega}_22'00 22° \$\textit{\Omega}_29'07 22° \$\textit{\Omega}_20'46 17° \$\textit{\Omega}_27'07 0° \$\textit{\Omega}_4\$ \$\textit{\Omega}_59'21 7° \$\textit{\Omega}_21'29	1°06'14 1°06'13 1°33'47 4.45085 AU	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist.	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23 1951 Oct 03 04:07 1951 Nov 30 04:08 1952 Apr 03 21:02 1952 Apr 17 07:21 1952 Apr 17 07:22 1952 Apr 19 03:53 1952 Apr 28 20:50	20°\(\)\(\)\(19'56\) 20°\(\)\(\)\(28'09\) 23°\(\)\(\)\(31'29\) 0°\(\)\(10'46\) 9°\(\)\(15'41\) 9°\(\)\(08'42\) 4°\(\)\(14'46\) 23°\(\)\(59'34\) 27°\(\)\(13'18\) 27°\(\)\(13'19\) 27°\(\)\(40'06\) 0°\(\)\(\)	1°01'33 5.96066 AU 3.94871 AU -1°38'16 -1°02'17 1°02'16
max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction	1945 Sep 18 09:46 1945 Sep 30 06:38 1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59 1946 Feb 11 08:26 1946 Apr 13 00:33 1946 Apr 14 02:36 1946 Jun 14 18:05 1946 Sep 25 10:19 1946 Oct 19 00:54 1946 Oct 29 21:34	5° \$\overline{D}\$02'57 7° \$\overline{D}\$36'28 7° \$\overline{D}\$51'12 7° \$\overline{D}\$51'12 10° \$\overline{D}\$38'04 27° \$\overline{D}\$22'00 22° \$\overline{D}\$29'07 22° \$\overline{D}\$20'46 17° \$\overline{D}\$27'07 0° \$\overline{M}\$.4° \$\overline{M}\$.59'21 7° \$\overline{M}\$.21'29 7° \$\overline{M}\$.46'37	1°06'14 1°06'13 1°33'47 4.45085 AU 6.42527 AU 0°58'38	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23 1951 Oct 03 04:07 1951 Nov 30 04:08 1952 Apr 03 21:02 1952 Apr 17 07:21 1952 Apr 17 07:22 1952 Apr 19 03:53 1952 Apr 28 20:50 1952 Apr 30 20:33	20°\( \)19'56 20°\( \)28'09 23°\( \)31'29 0°\( \) 14°\( \)10'46 9°\( \)15'41 9°\( \)08'42 4°\( \)14'46 23°\( \)59'34 27°\( \)13'18 27°\( \)13'19 27°\( \)40'06 0°\( \)8'28'31	1°01'33 5.96066 AU 3.94871 AU -1°38'16 -1°02'17 1°02'16
max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong	1945 Sep 18 09:46 1945 Sep 30 06:38 1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59 1946 Feb 11 08:26 1946 Apr 13 00:33 1946 Apr 14 02:36 1946 Jun 14 18:05 1946 Sep 25 10:19 1946 Oct 19 00:54 1946 Oct 29 21:34	5° \$\omega 02'57 7° \$\omega 36'28  7° \$\omega 51'12 7° \$\omega 51'12 10° \$\omega 38'04 27° \$\omega 22'00 22° \$\omega 29'07 22° \$\omega 20'46 17° \$\omega 27'07 0° \$\omega 4\$^ \$\omega 59'21 7° \$\omega 21'29  7° \$\omega 46'37 7° \$\omega 46'37	1°06'14 1°06'13 1°33'47 4.45085 AU	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23 1951 Oct 03 04:07 1951 Nov 30 04:08 1952 Apr 03 21:02 1952 Apr 17 07:21 1952 Apr 17 07:22 1952 Apr 19 03:53 1952 Apr 28 20:50 1952 Apr 30 20:33 1952 Jul 08 01:08	20°\( \)19'56 20°\( \)28'09 23°\( \)31'29 0°\( \) 14°\( \)10'46 9°\( \)15'41 9°\( \)08'42 4°\( \)14'46 23°\( \)5'34 27°\( \)13'18 27°\( \)13'19 27°\( \)40'06 0°\( \)8 0°\( \)28'31 15°\( \)8	1°01'33 5.96066 AU 3.94871 AU -1°38'16 -1°02'17 1°02'16
max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction	1945 Sep 18 09:46 1945 Sep 30 06:38 1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59 1946 Feb 11 08:26 1946 Apr 13 00:33 1946 Apr 14 02:36 1946 Jun 14 18:05 1946 Sep 25 10:19 1946 Oct 19 00:54 1946 Oct 29 21:34	5° \$\overline{D}\$02'57 7° \$\overline{D}\$36'28 7° \$\overline{D}\$51'12 7° \$\overline{D}\$51'12 10° \$\overline{D}\$38'04 27° \$\overline{D}\$22'00 22° \$\overline{D}\$29'07 22° \$\overline{D}\$20'46 17° \$\overline{D}\$27'07 0° \$\overline{M}\$.4° \$\overline{M}\$.59'21 7° \$\overline{M}\$.21'29 7° \$\overline{M}\$.46'37	1°06'14 1°06'13 1°33'47 4.45085 AU 6.42527 AU 0°58'38	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist.	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23 1951 Oct 03 04:07 1951 Nov 30 04:08 1952 Apr 03 21:02 1952 Apr 17 07:21 1952 Apr 17 07:22 1952 Apr 19 03:53 1952 Apr 28 20:50 1952 Apr 30 20:33	20°\( \)19'56 20°\( \)28'09 23°\( \)31'29 0°\( \) 14°\( \)10'46 9°\( \)15'41 9°\( \)08'42 4°\( \)14'46 23°\( \)59'34 27°\( \)13'18 27°\( \)13'19 27°\( \)40'06 0°\( \)8'28'31	1°01'33 5.96066 AU 3.94871 AU -1°38'16 -1°02'17 1°02'16
max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong	1945 Sep 18 09:46 1945 Sep 30 06:38 1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59 1946 Feb 11 08:26 1946 Apr 13 00:33 1946 Apr 14 02:36 1946 Jun 14 18:05 1946 Sep 25 10:19 1946 Oct 19 00:54 1946 Oct 29 21:34	5° \$\omega 02'57 7° \$\omega 36'28  7° \$\omega 51'12 7° \$\omega 51'12 10° \$\omega 38'04 27° \$\omega 22'00 22° \$\omega 29'07 22° \$\omega 20'46 17° \$\omega 27'07 0° \$\omega 4\$^ \$\omega 59'21 7° \$\omega 21'29  7° \$\omega 46'37 7° \$\omega 46'37	1°06'14 1°06'13 1°33'47 4.45085 AU 6.42527 AU 0°58'38	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23 1951 Oct 03 04:07 1951 Nov 30 04:08 1952 Apr 03 21:02 1952 Apr 17 07:21 1952 Apr 17 07:22 1952 Apr 19 03:53 1952 Apr 28 20:50 1952 Apr 30 20:33 1952 Jul 08 01:08	20°\( \)19'56 20°\( \)28'09 23°\( \)31'29 0°\( \) 14°\( \)10'46 9°\( \)15'41 9°\( \)08'42 4°\( \)14'46 23°\( \)59'34  27°\( \)13'18 27°\( \)13'19 27°\( \)40'06 0°\( \)8 0°\( \)828'31 15°\( \)8 20°\( \)59'26	1°01'33 5.96066 AU 3.94871 AU -1°38'16 -1°02'17 1°02'16
max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong	1945 Sep 18 09:46 1945 Sep 30 06:38 1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59 1946 Feb 11 08:26 1946 Apr 13 00:33 1946 Apr 14 02:36 1946 Jun 14 18:05 1946 Oct 19 00:54 1946 Oct 29 21:34 1946 Oct 31 19:28 1946 Oct 31 19:29 1946 Nov 13 11:49	5° \$\omega 02'57 7° \$\omega 36'28  7° \$\omega 51'12 7° \$\omega 51'12 10° \$\omega 38'04 27° \$\omega 22'00 22° \$\omega 29'07 22° \$\omega 20'46 17° \$\omega 27'07 0° \$\omega 4\$^ \$\omega 59'21 7° \$\omega 21'29  7° \$\omega 46'37 7° \$\omega 46'37 10° \$\omega 32'53	1°06'14 1°06'13 1°33'47 4.45085 AU 6.42527 AU 0°58'38	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist.  morning rise  retrograde	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23 1951 Oct 03 04:07 1951 Nov 30 04:08 1952 Apr 03 21:02 1952 Apr 17 07:21 1952 Apr 17 07:22 1952 Apr 19 03:53 1952 Apr 28 20:50 1952 Apr 30 20:33 1952 Jul 08 01:08 1952 Sep 09 19:40	20°\( \)19'56 20°\( \)28'09 23°\( \)31'29 0°\( \) 14°\( \)10'46 9°\( \)15'41 9°\( \)08'42 4°\( \)14'46 23°\( \)59'34  27°\( \)13'18 27°\( \)13'19 27°\( \)40'06 0°\( \)8 0°\( \)828'31 15°\( \)8 20°\( \)59'26	1°01'33 5.96066 AU 3.94871 AU -1°38'16 -1°02'17 1°02'16 5.95911 AU
max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise	1945 Sep 18 09:46 1945 Sep 30 06:38 1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59 1946 Feb 11 08:26 1946 Apr 13 00:33 1946 Apr 14 02:36 1946 Jun 14 18:05 1946 Sep 25 10:19 1946 Oct 19 00:54 1946 Oct 29 21:34 1946 Oct 31 19:28 1946 Oct 31 19:29 1946 Nov 13 11:49 1946 Dec 04 08:38	5° \$\overline{D}\$02'57 7° \$\overline{D}\$36'28 7° \$\overline{D}\$51'12 7° \$\overline{D}\$51'12 10° \$\overline{D}\$38'04 27° \$\overline{D}\$22'00 22° \$\overline{D}\$29'07 22° \$\overline{D}\$20'46 17° \$\overline{D}\$27'07 0° \$\overline{D}\$4" \$\overline{D}\$59'21 7° \$\overline{D}\$21'29 7° \$\overline{D}\$46'37 7° \$\overline{D}\$46'37 10° \$\overline{D}\$32'53 15° \$\overline{D}\$4.	1°06'14 1°06'13 1°33'47 4.45085 AU 6.42527 AU 0°58'38	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist.  morning rise  retrograde min. Earth dist.	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23 1951 Oct 03 04:07 1951 Nov 30 04:08 1952 Apr 03 21:02 1952 Apr 17 07:21 1952 Apr 17 07:22 1952 Apr 19 03:53 1952 Apr 28 20:50 1952 Apr 30 20:33 1952 Jul 08 01:08 1952 Sep 09 19:40 1952 Nov 06 23:46	20°\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot	1°01'33 5.96066 AU 3.94871 AU -1°38'16 -1°02'17 1°02'16 5.95911 AU
max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde	1945 Sep 18 09:46 1945 Sep 30 06:38 1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59 1946 Feb 11 08:26 1946 Apr 13 00:33 1946 Apr 14 02:36 1946 Jun 14 18:05 1946 Oct 19 00:54 1946 Oct 29 21:34 1946 Oct 31 19:28 1946 Oct 31 19:29 1946 Nov 13 11:49 1946 Dec 04 08:38 1947 Mar 14 11:36	5° \$\overline{D}\overline{2}\sigma 02'57 7° \$\overline{D}\overline{2}\sigma 06'28 7° \$\overline{D}\overline{2}\sigma 051'12 10° \$\overline{D}\overline{2}\sigma 02'00 22° \$\overline{D}\overline{2}\ov	1°06'14 1°06'13 1°33'47 4.45085 AU 6.42527 AU 0°58'38 0°58'38	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist.  morning rise  retrograde min. Earth dist.	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23 1951 Oct 03 04:07 1951 Nov 30 04:08 1952 Apr 03 21:02  1952 Apr 17 07:21 1952 Apr 17 07:22 1952 Apr 19 03:53 1952 Apr 28 20:50 1952 Apr 30 20:33 1952 Jul 08 01:08 1952 Nov 06 23:46 1952 Nov 08 09:09	20°\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot	1°01'33 5.96066 AU 3.94871 AU -1°38'16 -1°02'17 1°02'16 5.95911 AU
max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition min. Earth dist.	1945 Sep 18 09:46 1945 Sep 30 06:38  1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59 1946 Feb 11 08:26 1946 Apr 13 00:33 1946 Apr 14 02:36 1946 Sep 25 10:19 1946 Oct 19 00:54 1946 Oct 29 21:34  1946 Oct 31 19:28 1946 Oct 31 19:28 1946 Oct 31 19:29 1946 Nov 13 11:49 1946 Dec 04 08:38 1947 Mar 14 11:36 1947 May 14 08:16 1947 May 15 20:26	5° \$\textit{\Omega}_02'57 7° \$\textit{\Omega}_36'28 7° \$\textit{\Omega}_51'12 7° \$\textit{\Omega}_51'12 10° \$\textit{\Omega}_38'04 27° \$\textit{\Omega}_22'00 22° \$\textit{\Omega}_29'07 22° \$\textit{\Omega}_20'46 17° \$\textit{\Omega}_27'07 0° \$\textit{\Omega}_4\$ \$\textit{\Omega}_59'21 7° \$\textit{\Omega}_21'29 7° \$\textit{\Omega}_46'37 7° \$\textit{\Omega}_46'37 10° \$\textit{\Omega}_32'53 15° \$\textit{\Omega}_27\$ \$\textit{\Omega}_33'47 22° \$\textit{\Omega}_41'55 22° \$\textit{\Omega}_30'23	1°06'14 1°06'13 1°33'47 4.45085 AU 6.42527 AU 0°58'38 0°58'38	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist.  morning rise  retrograde min. Earth dist. opposition	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23 1951 Oct 03 04:07 1951 Nov 30 04:08 1952 Apr 03 21:02  1952 Apr 17 07:21 1952 Apr 17 07:22 1952 Apr 19 03:53 1952 Apr 28 20:50 1952 Apr 30 20:33 1952 Jul 08 01:08 1952 Nov 06 23:46 1952 Nov 08 09:09 1952 Nov 15 02:45 1953 Jan 05 07:52	20°\text{19'56} 20°\text{28'09} 23°\text{13'129} 0°\text{10'46} 9°\text{15'41} 9°\text{08'42} 4°\text{14'46} 23°\text{59'34}  27°\text{13'18} 27°\text{13'19} 27°\text{40'06} 0°\text{8} 20°\text{859'26} 16°\text{806'05} 15°\text{85'4'43} 15°\text{8} 10°\text{858'34}	1°01'33 5.96066 AU 3.94871 AU -1°38'16 -1°02'17 1°02'16 5.95911 AU
max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition	1945 Sep 18 09:46 1945 Sep 30 06:38  1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59 1946 Feb 11 08:26 1946 Apr 13 00:33 1946 Apr 14 02:36 1946 Sep 25 10:19 1946 Oct 19 00:54 1946 Oct 29 21:34  1946 Oct 31 19:28 1946 Oct 31 19:29 1946 Nov 13 11:49 1946 Dec 04 08:38 1947 Mar 14 11:36 1947 May 14 08:16 1947 May 15 20:26 1947 Jul 15 22:53	5° \$\textit{\Omega}_02'57 7° \$\textit{\Omega}_36'28 7° \$\textit{\Omega}_51'12 7° \$\textit{\Omega}_51'12 10° \$\textit{\Omega}_38'04 27° \$\textit{\Omega}_29'07 22° \$\textit{\Omega}_29'07 0° \$\textit{\Omega}_4'07 0° \$\textit{\Omega}_4'21 7° \$\textit{\Omega}_27'07 0° \$\textit{\Omega}_4'37 7° \$\textit{\Omega}_46'37 7° \$\textit{\Omega}_46'37 10° \$\textit{\Omega}_32'53 15° \$\textit{\Omega}_4'20' \$\textit{\Omega}_441'55 22° \$\textit{\Omega}_30'23 17° \$\textit{\Omega}_441'32	1°06'14 1°06'13 1°33'47 4.45085 AU 6.42527 AU 0°58'38 0°58'38	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist.  morning rise  retrograde min. Earth dist. opposition	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23 1951 Oct 03 04:07 1951 Nov 30 04:08 1952 Apr 03 21:02  1952 Apr 17 07:21 1952 Apr 17 07:22 1952 Apr 19 03:53 1952 Apr 28 20:50 1952 Apr 30 20:33 1952 Jul 08 01:08 1952 Nov 06 23:46 1952 Nov 08 09:09 1952 Nov 15 02:45 1953 Jan 05 07:52 1953 Feb 24 15:00	20°\text{19'56} 20°\text{28'09} 23°\text{13'129} 0°\text{10'46} 9°\text{15'41} 9°\text{08'42} 4°\text{14'46} 23°\text{759'34}  27°\text{13'18} 27°\text{13'19} 27°\text{40'06} 0°\text{8} 20°\text{859'26} 16°\text{806'05} 15°\text{85'4'43} 15°\text{8} 10°\text{858'34} 15°\text{8}	1°01'33 5.96066 AU 3.94871 AU -1°38'16 -1°02'17 1°02'16 5.95911 AU
max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition min. Earth dist. direct	1945 Sep 18 09:46 1945 Sep 30 06:38  1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59 1946 Feb 11 08:26 1946 Apr 13 00:33 1946 Apr 14 02:36 1946 Sep 25 10:19 1946 Oct 19 00:54 1946 Oct 29 21:34  1946 Oct 31 19:28 1946 Oct 31 19:29 1946 Nov 13 11:49 1946 Dec 04 08:38 1947 Mar 14 11:36 1947 May 14 08:16 1947 May 15 20:26 1947 Jul 15 22:53 1947 Oct 24 02:59	5° \$\omega 02'57 7° \$\omega 36'28  7° \$\omega 51'12 7° \$\omega 51'12 10° \$\omega 38'04 27° \$\omega 22'00 22° \$\omega 29'07 22° \$\omega 20'46 17° \$\omega 27'07 0° \$\omega 4\$  \text{M.59'21} 7° \$\omega 46'37 7° \$\omega 46'37 7° \$\omega 46'37 10° \$\omega 32'53 15° \$\omega 22" \$\omega 34'47 22° \$\omega 41'55 22° \$\omega 30'23 17° \$\omega 41'32 0° \$\omega 4\$	1°06'14 1°06'13 1°33'47 4.45085 AU 6.42527 AU 0°58'38 0°58'38	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23 1951 Oct 03 04:07 1951 Nov 30 04:08 1952 Apr 03 21:02  1952 Apr 17 07:21 1952 Apr 17 07:22 1952 Apr 19 03:53 1952 Apr 28 20:50 1952 Apr 30 20:33 1952 Jul 08 01:08 1952 Nov 06 23:46 1952 Nov 06 23:46 1952 Nov 15 02:45 1953 Jan 05 07:52 1953 Feb 24 15:00 1953 May 09 15:33	20°\text{19'56} 20°\text{28'09} 23°\text{13'29} 0°\tau 14°\tau10'46 9°\tau15'41 9°\tau08'42 4°\tau14'46 23°\tau59'34  27°\tau13'18 27°\tau13'19 27°\tau40'06 0°\tau 0°\tau28'31 15°\tau 20°\tau59'26 16°\tau06'05 15°\tau58'443 15°\tau5'\tau 10°\tau58'34 15°\tau 0°\tau	1°01'33 5.96066 AU 3.94871 AU -1°38'16 -1°02'17 1°02'16 5.95911 AU
max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition min. Earth dist. direct	1945 Sep 18 09:46 1945 Sep 30 06:38  1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59 1946 Feb 11 08:26 1946 Apr 13 00:33 1946 Apr 14 02:36 1946 Sep 25 10:19 1946 Oct 19 00:54 1946 Oct 29 21:34  1946 Oct 31 19:28 1946 Oct 31 19:29 1946 Nov 13 11:49 1946 Dec 04 08:38 1947 May 14 08:16 1947 May 15 20:26 1947 Jul 15 22:53 1947 Oct 24 02:59 1947 Nov 18 17:47	5° \$\omega 02'57 7° \$\omega 36'28  7° \$\omega 51'12 7° \$\omega 51'12 10° \$\omega 38'04 27° \$\omega 22'00 22° \$\omega 29'07 22° \$\omega 20'46 17° \$\omega 27'07 0° \$\omega 4" \$\omega 59'21 7° \$\omega 21'29  7° \$\omega 46'37 7° \$\omega 46'37 7° \$\omega 46'37 10° \$\omega 32'53 15° \$\omega 40'25 22° \$\omega 30'23 17° \$\omega 41'55 22° \$\omega 31'45	1°06'14 1°06'13 1°33'47 4.45085 AU 6.42527 AU 0°58'38 0°58'38 1°10'51 4.38419 AU	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist.  morning rise  retrograde min. Earth dist. opposition	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23 1951 Oct 03 04:07 1951 Nov 30 04:08 1952 Apr 03 21:02  1952 Apr 17 07:21 1952 Apr 17 07:22 1952 Apr 19 03:53 1952 Apr 28 20:50 1952 Apr 30 20:33 1952 Jul 08 01:08 1952 Nov 06 23:46 1952 Nov 08 09:09 1952 Nov 15 02:45 1953 Jan 05 07:52 1953 Feb 24 15:00	20°\text{19'56} 20°\text{28'09} 23°\text{13'129} 0°\text{10'46} 9°\text{15'41} 9°\text{08'42} 4°\text{14'46} 23°\text{759'34}  27°\text{13'18} 27°\text{13'19} 27°\text{40'06} 0°\text{8} 20°\text{859'26} 16°\text{806'05} 15°\text{85'4'43} 15°\text{8} 10°\text{858'34} 15°\text{8}	1°01'33 5.96066 AU 3.94871 AU -1°38'16 -1°02'17 1°02'16 5.95911 AU
max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition min. Earth dist. direct	1945 Sep 18 09:46 1945 Sep 30 06:38  1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59 1946 Feb 11 08:26 1946 Apr 13 00:33 1946 Apr 14 02:36 1946 Sep 25 10:19 1946 Oct 19 00:54 1946 Oct 29 21:34  1946 Oct 31 19:28 1946 Oct 31 19:29 1946 Nov 13 11:49 1946 Dec 04 08:38 1947 Mar 14 11:36 1947 May 14 08:16 1947 May 15 20:26 1947 Jul 15 22:53 1947 Oct 24 02:59	5° \$\omega 02'57 7° \$\omega 36'28  7° \$\omega 51'12 7° \$\omega 51'12 10° \$\omega 38'04 27° \$\omega 22'00 22° \$\omega 29'07 22° \$\omega 20'46 17° \$\omega 27'07 0° \$\omega 4\$  \text{M.59'21} 7° \$\omega 46'37 7° \$\omega 46'37 7° \$\omega 46'37 10° \$\omega 32'53 15° \$\omega 22" \$\omega 34'47 22° \$\omega 41'55 22° \$\omega 30'23 17° \$\omega 41'32 0° \$\omega 4"	1°06'14 1°06'13 1°33'47 4.45085 AU 6.42527 AU 0°58'38 0°58'38	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist.  morning rise  retrograde min. Earth dist. opposition  direct	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23 1951 Oct 03 04:07 1951 Nov 30 04:08 1952 Apr 03 21:02  1952 Apr 17 07:21 1952 Apr 17 07:22 1952 Apr 19 03:53 1952 Apr 28 20:50 1952 Apr 30 20:33 1952 Jul 08 01:08 1952 Sep 09 19:40 1952 Nov 06 23:46 1952 Nov 06 23:46 1952 Nov 08 09:09 1952 Nov 15 02:45 1953 Jan 05 07:52 1953 Feb 24 15:00 1953 May 09 15:33 1953 May 11 10:58	20°\text{19'56} 20°\text{28'09} 23°\text{13'29} 0°\text{10'46} 9°\text{15'41} 9°\text{08'42} 4°\text{14'46} 23°\text{59'34}  27°\text{13'18} 27°\text{13'19} 27°\text{40'06} 0°\text{28'31} 15°\text{20} 20°\text{55'26} 16°\text{506'05} 15°\text{55'4'43} 15°\text{R} 10°\text{55'8'34} 15°\text{B} 0°\text{II} 0°\text{II25'20}	1°01'33 5.96066 AU 3.94871 AU -1°38'16 -1°02'17 1°02'16 5.95911 AU 3.99374 AU -1°19'15
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max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist. conjunction	1945 Sep 18 09:46 1945 Sep 30 06:38  1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59 1946 Feb 11 08:26 1946 Apr 13 00:33 1946 Apr 14 02:36 1946 Jun 14 18:05 1946 Sep 25 10:19 1946 Oct 19 00:54 1946 Oct 29 21:34  1946 Oct 31 19:28 1946 Oct 31 19:29 1946 Nov 13 11:49 1946 Dec 04 08:38 1947 Mar 14 11:36 1947 May 14 08:16 1947 May 15 20:26 1947 Jul 15 22:53 1947 Oct 24 02:59 1947 Nov 18 17:47 1947 Nov 29 07:16	5° \$\overline{D}\$02'57 7° \$\overline{D}\$36'28 7° \$\overline{D}\$51'12 7° \$\overline{D}\$51'12 10° \$\overline{D}\$38'04 27° \$\overline{D}\$22'00 22° \$\overline{D}\$29'07 22° \$\overline{D}\$20'46 17° \$\overline{D}\$27'07 0° \$\mathred{M}\$.46'37 7° \$\mathred{M}\$.46'37 7° \$\mathred{M}\$.46'37 10° \$\mathred{M}\$.32'53 15° \$\mathred{M}\$.22° \$\mathred{M}\$.31'47 22° \$\mathred{M}\$.41'55 22° \$\mathred{M}\$.31'45 7° \$\sqrt{S}\$.31'45 7° \$\sqrt{S}\$.32'3 8° \$\sqrt{2}\$21'50	1°06'14 1°06'13 1°33'47 4.45085 AU 6.42527 AU 0°58'38 0°58'38 1°10'51 4.38419 AU 6.32749 AU 0°34'41	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist.  morning rise  retrograde min. Earth dist. opposition direct  evening set  conjunction minimum elong	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23 1951 Oct 03 04:07 1951 Nov 30 04:08 1952 Apr 03 21:02  1952 Apr 17 07:21 1952 Apr 17 07:22 1952 Apr 19 03:53 1952 Apr 28 20:50 1952 Apr 30 20:33 1952 Apr 30 20:33 1952 Jul 08 01:08 1952 Sep 09 19:40 1952 Nov 06 23:46 1952 Nov 08 09:09 1952 Nov 15 02:45 1953 Jan 05 07:52 1953 Feb 24 15:00 1953 May 09 15:33 1953 May 11 10:58	20°\tau28'09 23°\tau28'09 23°\tau29'0°\tau29 0°\tau29'15'41 9°\tau29'15'41 9°\tau29'13'18 27°\tau21'19 27°\tau21'19 27°\tau20'06 0°\tau28'31 15°\tau20'05'59'26 16°\tau20'05 15°\tau5'59'26 16°\tau20'05 15°\tau5'59'26 16°\tau20'05 15°\tau5'59'26 10°\tau5'59'26 10°\tau5'59'34	1°01'33 5.96066 AU 3.94871 AU -1°38'16 -1°02'17 1°02'16 5.95911 AU 3.99374 AU -1°19'15
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max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition min. Earth dist. direct  evening set retrograde opposition min. Earth dist. direct  evening set max. Earth dist.	1945 Sep 18 09:46 1945 Sep 30 06:38  1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59 1946 Feb 11 08:26 1946 Apr 13 00:33 1946 Apr 14 02:36 1946 Jun 14 18:05 1946 Sep 25 10:19 1946 Oct 19 00:54 1946 Oct 29 21:34  1946 Oct 31 19:28 1946 Oct 31 19:29 1946 Nov 13 11:49 1946 Dec 04 08:38 1947 Mar 14 11:36 1947 May 14 08:16 1947 May 15 20:26 1947 Jul 15 22:53 1947 Oct 24 02:59 1947 Nov 18 17:47 1947 Nov 29 07:16  1947 Dec 01 09:59 1947 Dec 01 10:01 1947 Dec 14 00:41	5° \$\textit{\Omega}02'57 7° \$\textit{\Omega}36'28 7° \$\textit{\Omega}51'12 7° \$\textit{\Omega}51'12 10° \$\textit{\Omega}38'04 27° \$\textit{\Omega}29'07 22° \$\textit{\Omega}29'07 22° \$\textit{\Omega}20'46 17° \$\textit{\Omega}27'07 0° \$\textit{\Omega}4' \textit{\Omega}5'21 7° \$\textit{\Omega}21'29 7° \$\textit{\M}46'37 7° \$\textit{\M}46'37 10° \$\textit{\M}32'53 15° \$\textit{\M}22' \$\textit{\M}41'55 22° \$\textit{\M}30'23 17° \$\textit{\M}41'32 0° \$\textit{\S}^2\$ 22° \$\textit{\S}3'23 8° \$\textit{\S}21'50 8° \$\textit{\S}21'51 11° \$\textit{\S}11'27	1°06'14 1°06'13 1°33'47 4.45085 AU 6.42527 AU 0°58'38 0°58'38 1°10'51 4.38419 AU 6.32749 AU 0°34'41	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist.  morning rise  retrograde min. Earth dist. opposition direct  evening set  conjunction minimum elong max. Earth dist. opposition	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23 1951 Oct 03 04:07 1951 Nov 30 04:08 1952 Apr 03 21:02  1952 Apr 17 07:21 1952 Apr 17 07:22 1952 Apr 19 03:53 1952 Apr 28 20:50 1952 Apr 30 20:33 1952 Apr 30 20:33 1952 Jul 08 01:08 1952 Sep 09 19:40 1952 Nov 06 23:46 1952 Nov 08 09:09 1952 Nov 15 02:45 1953 Jan 05 07:52 1953 Feb 24 15:00 1953 May 09 15:33 1953 May 11 10:58  1953 May 25 03:38 1953 May 25 03:40 1953 May 27 11:23 1953 Jun 07 22:22	20°\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot	1°01'33 5.96066 AU 3.94871 AU -1°38'16 -1°02'17 1°02'16 5.95911 AU 3.99374 AU -1°19'15
max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition min. Earth dist. direct  evening set retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise retrograde	1945 Sep 18 09:46 1945 Sep 30 06:38  1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59 1946 Feb 11 08:26 1946 Apr 13 00:33 1946 Apr 14 02:36 1946 Jun 14 18:05 1946 Sep 25 10:19 1946 Oct 19 00:54 1946 Oct 29 21:34  1946 Oct 31 19:28 1946 Oct 31 19:29 1946 Nov 13 11:49 1946 Dec 04 08:38 1947 Mar 14 11:36 1947 May 14 08:16 1947 May 15 20:26 1947 Jul 15 22:53 1947 Oct 24 02:59 1947 Nov 18 17:47 1947 Nov 29 07:16  1947 Dec 01 09:59 1947 Dec 01 10:01 1947 Dec 14 00:41 1948 Apr 15 08:34	5° \$\overline{D}_02'57 7° \$\overline{D}_36'28 7° \$\overline{D}_51'12 7° \$\overline{D}_51'12 10° \$\overline{D}_38'04 27° \$\overline{D}_22'00 22° \$\overline{D}_22'07 22° \$\overline{D}_22'07 0° \$\overline{M}_4\$'05'21 7° \$\overline{M}_21'29 7° \$\overline{M}_46'37 7° \$\overline{M}_46'37 7° \$\overline{M}_46'37 10° \$\overline{M}_32'53 15° \$\overline{M}_32'53 15° \$\overline{M}_41'32 0° \$\overline{A}_1'32 0° \$\overline{A}_1	1°06'14 1°06'13 1°33'47 4.45085 AU 6.42527 AU 0°58'38 0°58'38 1°10'51 4.38419 AU 6.32749 AU 0°34'41 0°34'40	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist.  morning rise  retrograde min. Earth dist. opposition direct  evening set  conjunction minimum elong max. Earth dist.	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23 1951 Oct 03 04:07 1951 Nov 30 04:08 1952 Apr 03 21:02  1952 Apr 17 07:21 1952 Apr 17 07:22 1952 Apr 19 03:53 1952 Apr 28 20:50 1952 Apr 30 20:33 1952 Apr 30 20:33 1952 Jul 08 01:08 1952 Sep 09 19:40 1952 Nov 06 23:46 1952 Nov 08 09:09 1952 Nov 15 02:45 1953 Jan 05 07:52 1953 Feb 24 15:00 1953 May 09 15:33 1953 May 11 10:58  1953 May 25 03:38 1953 May 25 03:40 1953 May 27 11:23	20°\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot	1°01'33 5.96066 AU 3.94871 AU -1°38'16 -1°02'17 1°02'16 5.95911 AU 3.99374 AU -1°19'15 -0°38'43 0°38'42 6.04561 AU
max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition min. Earth dist. direct  evening set retrograde opposition min. Earth dist. direct  evening set max. Earth dist.	1945 Sep 18 09:46 1945 Sep 30 06:38  1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59 1946 Feb 11 08:26 1946 Apr 13 00:33 1946 Apr 14 02:36 1946 Jun 14 18:05 1946 Sep 25 10:19 1946 Oct 19 00:54 1946 Oct 29 21:34  1946 Oct 31 19:28 1946 Oct 31 19:29 1946 Nov 13 11:49 1946 Dec 04 08:38 1947 Mar 14 11:36 1947 May 14 08:16 1947 May 15 20:26 1947 Jul 15 22:53 1947 Oct 24 02:59 1947 Nov 18 17:47 1947 Nov 29 07:16  1947 Dec 01 09:59 1947 Dec 01 10:01 1947 Dec 14 00:41	5° \$\textit{\Omega}02'57 7° \$\textit{\Omega}36'28 7° \$\textit{\Omega}51'12 7° \$\textit{\Omega}51'12 10° \$\textit{\Omega}38'04 27° \$\textit{\Omega}29'07 22° \$\textit{\Omega}29'07 22° \$\textit{\Omega}20'46 17° \$\textit{\Omega}27'07 0° \$\textit{\Omega}4' \textit{\Omega}5'21 7° \$\textit{\Omega}21'29 7° \$\textit{\M}46'37 7° \$\textit{\M}46'37 10° \$\textit{\M}32'53 15° \$\textit{\M}22' \$\textit{\M}41'55 22° \$\textit{\M}30'23 17° \$\textit{\M}41'32 0° \$\textit{\S}^2\$ 22° \$\textit{\S}3'23 8° \$\textit{\S}21'50 8° \$\textit{\S}21'51 11° \$\textit{\S}11'27	1°06'14 1°06'13 1°33'47 4.45085 AU 6.42527 AU 0°58'38 0°58'38 1°10'51 4.38419 AU 6.32749 AU 0°34'41	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist.  morning rise  retrograde min. Earth dist. opposition direct  evening set  conjunction minimum elong max. Earth dist. opposition	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23 1951 Oct 03 04:07 1951 Nov 30 04:08 1952 Apr 03 21:02  1952 Apr 17 07:21 1952 Apr 17 07:22 1952 Apr 19 03:53 1952 Apr 28 20:50 1952 Apr 30 20:33 1952 Apr 30 20:33 1952 Jul 08 01:08 1952 Sep 09 19:40 1952 Nov 06 23:46 1952 Nov 08 09:09 1952 Nov 15 02:45 1953 Jan 05 07:52 1953 Feb 24 15:00 1953 May 09 15:33 1953 May 11 10:58  1953 May 25 03:38 1953 May 25 03:40 1953 May 27 11:23 1953 Jun 07 22:22	20°\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot	1°01'33 5.96066 AU 3.94871 AU -1°38'16 -1°02'17 1°02'16 5.95911 AU 3.99374 AU -1°19'15
max. Earth dist.  conjunction minimum elong morning rise retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition min. Earth dist. direct  evening set retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise retrograde	1945 Sep 18 09:46 1945 Sep 30 06:38  1945 Oct 01 09:53 1945 Oct 01 09:53 1945 Oct 14 06:59 1946 Feb 11 08:26 1946 Apr 13 00:33 1946 Apr 14 02:36 1946 Jun 14 18:05 1946 Sep 25 10:19 1946 Oct 19 00:54 1946 Oct 29 21:34  1946 Oct 31 19:28 1946 Oct 31 19:29 1946 Nov 13 11:49 1946 Dec 04 08:38 1947 Mar 14 11:36 1947 May 14 08:16 1947 May 15 20:26 1947 Jul 15 22:53 1947 Oct 24 02:59 1947 Nov 18 17:47 1947 Nov 29 07:16  1947 Dec 01 09:59 1947 Dec 01 10:01 1947 Dec 14 00:41 1948 Apr 15 08:34	5° \$\overline{D}_02'57 7° \$\overline{D}_36'28 7° \$\overline{D}_51'12 10° \$\overline{D}_38'04 27° \$\overline{D}_22'00 22° \$\overline{D}_22'07 22° \$\overline{D}_22'07 0° \$\overline{M}_4\$'0.59'21 7° \$\overline{M}_46'37 10° \$\overline{M}_32'53 15° \$\overline{M}_46'37 10° \$\overline{M}_32'53 15° \$\overline{M}_42'32 20° \$\overline{M}_41'55 22° \$\overline{M}_30'23 17° \$\overline{M}_41'32 0° \$\overline{M}_5''32'3 8° \$\overline{M}_21'50 8° \$\overline{M}_21'51 11° \$\overline{M}_11'27 28° \$\overline{S}_56'29	1°06'14 1°06'13 1°33'47 4.45085 AU 6.42527 AU 0°58'38 0°58'38 1°10'51 4.38419 AU 6.32749 AU 0°34'41 0°34'40	minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct evening set  conjunction minimum elong max. Earth dist.  morning rise  retrograde min. Earth dist. opposition direct  evening set  conjunction minimum elong max. Earth dist. opposition	1951 Mar 11 17:23 1951 Mar 12 06:56 1951 Mar 24 22:27 1951 Apr 21 14:57 1951 Aug 04 06:54 1951 Oct 02 07:23 1951 Oct 03 04:07 1951 Nov 30 04:08 1952 Apr 03 21:02  1952 Apr 17 07:21 1952 Apr 17 07:22 1952 Apr 19 03:53 1952 Apr 28 20:50 1952 Apr 30 20:33 1952 Jul 08 01:08 1952 Sep 09 19:40 1952 Nov 06 23:46 1952 Nov 06 23:46 1952 Nov 08 09:09 1952 Nov 15 02:45 1953 Jan 05 07:52 1953 Feb 24 15:00 1953 May 09 15:33 1953 May 11 10:58  1953 May 25 03:38 1953 May 25 03:40 1953 May 27 11:23 1953 Jun 07 22:22 1953 Oct 15 02:56	20°\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot	1°01'33 5.96066 AU 3.94871 AU -1°38'16 -1°02'17 1°02'16 5.95911 AU 3.99374 AU -1°19'15 -0°38'43 0°38'42 6.04561 AU 4.11143 AU

direct	1954 Feb 10 09:27	16° <b>Ⅱ</b> 24'47		min. Earth dist.	1959 May 20 08:10	26°M56'01	4.36830 AU
direct	1954 May 24 04:43	0°95		direct	1959 Jul 20 07:59	22°M07'29	4.50050710
evening set	1954 Jun 16 23:41	5° <b>©</b> 15'37			1959 Oct 05 14:39	0° <b>%</b>	
<i>Ş</i>				evening set	1959 Nov 23 02:33	10° <b>∡</b> *01'59	
conjunction	1954 Jun 30 17:38	8° <b>5</b> 22'36	-0°01'55	max. Earth dist.	1959 Dec 03 15:26	12° <b>∡</b> ²23'59	6.30811 AU
minimum elong	1954 Jun 30 17:39	8° <b>5</b> 22'36	0°01'55				
behind sun begin	1954 Jun 30 09:16	8° <b>5</b> 17'52		conjunction	1959 Dec 05 18:30	12° <b>∡</b> 52'47	0°30'13
behind sun end	1954 Jul 01 02:01	8° <b>5</b> 27'20		minimum elong	1959 Dec 05 18:32	12° <b>∡</b> 52'47	0°30'13
max. Earth dist.	1954 Jul 02 15:36	8°9548'42	6.18427 AU	morning rise	1959 Dec 18 09:25	15° <b>∡</b> ¹43'15	
morning rise	1954 Jul 14 11:39	11° <b>5</b> 29'19			1960 Mar 01 13:10	0°ප	
asc. node	1954 Jul 20 03:03	12° <b>5</b> 45'08		retrograde	1960 Apr 20 04:55	3° <b>⋜</b> 36'56	
retrograde	1954 Nov 17 03:02	29° <b>©</b> 56'35			1960 Jun 10 01:53	30°₽ <b>⋌</b>	
opposition	1955 Jan 15 20:01	24° <b>©</b> 54'27	0°24'48	opposition	1960 Jun 20 01:57	28° <b>∡</b> ⁴44'15	0°19'05
min. Earth dist.	1955 Jan 14 21:41	25° <b>©</b> 01'58	4.25661 AU	min. Earth dist.	1960 Jun 21 12:09	28° <b>₹</b> 33'18	4.23894 AU
direct	1955 Mar 16 20:38	19° <b>©</b> 52'50		direct	1960 Aug 20 16:40	23° <b>х</b> 46′34	
	1955 Jun 13 00:06	$0^{\circ}\Omega$			1960 Oct 26 03:00	0°రె	
evening set	1955 Jul 21 15:49	8° <b>Ω</b> 05′29		desc. node	1960 Nov 05 00:35	1° <b>පි</b> 46'25	
				evening set	1960 Dec 24 01:28	12° <b>る</b> 15'04	
conjunction	1955 Aug 04 05:31	11° <b>Ω</b> 04'36	0°33'59	max. Earth dist.	1961 Jan 04 03:25	14° <b>る</b> 49'18	6.16640 AU
minimum elong	1955 Aug 04 05:29	11° <b>Ω</b> 04'35	0°33'58				
max. Earth dist.	1955 Aug 05 03:53	11° <b>Ω</b> 16'56	6.32449 AU	conjunction	1961 Jan 05 18:24	15° <b>る</b> 11'59	
morning rise	1955 Aug 17 17:29	14° <b>Ω</b> 02'40		minimum elong	1961 Jan 05 18:24	15° <b>る</b> 11'59	0°05'57
	1955 Aug 22 02:42	15° <b>Ω</b>		behind sun begin	1961 Jan 05 10:46	15° <b>る</b> 07'34	
. 1	1955 Nov 17 03:58	0°M)		behind sun end	1961 Jan 06 02:03	15°る16'24	
retrograde	1955 Dec 18 04:30	1° Mp 30'24		morning rise	1961 Jan 18 11:31	18° <b>る</b> 09'18	
	1956 Jan 18 02:04	30°R <b>Ω</b>	1°09'42		1961 Mar 15 08:01	0°≈ 7°≈ •0011.4	
opposition min. Earth dist.	1956 Feb 16 05:38 1956 Feb 15 23:44	26° <b>\O</b> 31'58 26° <b>\O</b> 33'55	4.38107 AU	retrograde	1961 May 25 18:35 1961 Jul 25 10:37	7°≈09'14 2°≈14'12	0026154
direct	1956 Apr 17 12:59	20° <b>δ</b> (33°33°33°21° <b>Ω</b> 29'09	4.3810/ AU	opposition min. Earth dist.	1961 Jul 25 10:37 1961 Jul 26 06:15		4.09506 AU
direct	1956 Jul 07 19:01	0°m		iiiii. Eartii tist.	1961 Aug 12 08:54	2 ≈0731 30°Rる	4.09300 AU
evening set	1956 Aug 22 09:58	9° <b>m</b> y13'11		direct	1961 Sep 23 15:27	30 KO 27° <b>ろ</b> 19'04	
evening set	1930 Aug 22 09.36	9 IJ 13 11		direct	1961 Nov 04 02:49	27 <b>⊙</b> 1904	
conjunction	1956 Sep 04 16:18	12° Mp 05'14	0°58'24		1962 Jan 20 19:04	0 <b>~</b> 15° <b>≈</b>	
minimum elong	1956 Sep 04 16:16	12° my 05'13	0°58'24	evening set	1962 Jan 26 21:35	16°≈26'34	
max. Earth dist.	1956 Sep 04 10:10	12° mp 01'45	6.42369 AU	evening set	1702 3411 20 21.33	10 /0/2034	
morning rise	1956 Sep 17 19:56	14° m 55'53	0.12307110	conjunction	1962 Feb 08 18:08	19° <b>≈</b> 30'44	-0°41'40
	1956 Dec 13 02:17	0∘ <b>⊽</b>		minimum elong	1962 Feb 08 18:05	19° <b>≈</b> 30'43	
retrograde	1957 Jan 16 09:22	1° <b>≙</b> 47'59		max. Earth dist.	1962 Feb 08 03:44	19° <b>≈</b> 22'07	6.03318 AU
	1957 Feb 19 15:38	30°R ₩		morning rise	1962 Feb 21 16:38	22° <b>≈</b> 36'07	
opposition	1957 Mar 17 18:01	26° m 53'03	1°33'25	Č	1962 Mar 25 22:07	0° <b>)</b> €	
min. Earth dist.	1957 Mar 18 07:15	26° Mp 48'45	4.44968 AU	retrograde	1962 Jul 02 08:58	12° <b>)</b> 41'24	
direct	1957 May 19 02:20	21° m 50'14		opposition	1962 Aug 31 14:48	7° <b>)</b> 42'42	-1°22'57
	1957 Aug 07 02:11	0° <b>ت</b>		min. Earth dist.	1962 Aug 31 12:30		3.98533 AU
evening set	1957 Sep 22 16:53	9° <b>£</b> 20'43		direct	1962 Oct 29 10:32	2° <b>)</b> (49′01	
max. Earth dist.	1957 Oct 04 08:07	11° <b>≏</b> 51'21	6.45598 AU	evening set	1963 Mar 03 19:08	22° <b>∺</b> 26′03	
conjunction	1957 Oct 05 16:00	12° <b>≏</b> 08'36	1°06'13	conjunction	1963 Mar 16 22:23	25° <b>)</b> ₹36′36	-1°03'13
minimum elong	1957 Oct 05 16:00	12° <b>≏</b> 08'36	1°06'12	minimum elong	1963 Mar 16 22:22	25° <b>)</b> 36′36′	1°03'13
morning rise	1957 Oct 18 12:25	14° <b>£</b> 55'11		max. Earth dist.	1963 Mar 17 18:26	25° <b>)</b> 48'45	5.95695 AU
	1958 Jan 13 12:51	0° <b>M</b> ₊		morning rise	1963 Mar 30 04:24	28° <b>)</b> 48'46	
retrograde	1958 Feb 15 14:59	1°M39'54			1963 Apr 04 03:19	0°Υ	
	1958 Mar 20 19:14	30° <b>R</b> <u> </u>		retrograde	1963 Aug 09 15:26	19° <b>Y</b> 28'57	
opposition	1958 Apr 17 07:32	26° <b>£</b> 47'13	1°32'01	opposition	1963 Oct 08 10:59	14° <b>Y</b> 26′24	
min. Earth dist.	1958 Apr 18 11:51	26° <b>≏</b> 38'08	4.44504 AU	min. Earth dist.	1963 Oct 07 12:07	14° <b>Y</b> 34'06	3.95245 AU
direct	1958 Jun 19 01:44	21° <b>Ω</b> 45'20		direct	1963 Dec 05 10:10	9° <b>Υ</b> 32'16	
	1958 Sep 07 08:52	0°M,		evening set	1964 Apr 09 03:10	29° <b>Y</b> 14'46	
evening set	1958 Oct 23 06:58	9°M19'25	C 41 407 111		1964 Apr 12 06:52	0° <b>8</b>	
max. Earth dist.	1958 Nov 03 02:44	11° <b>M</b> 41'26	6.41407 AU		1064 4 22 14 22	200000	1000115
aanius -ti	1050 N 05 01 12	120M 04/57	0056110	conjunction	1964 Apr 22 14:20	2° <b>8</b> 28'25	
conjunction	1958 Nov 05 01:13	12°M06'57	0°56'10	minimum elong	1964 Apr 22 14:21	2° <b>と</b> 28'27 2° <b>と</b> 56'19	
minimum elong	1958 Nov 05 01:14	12°M06'57	0°56'10	max. Earth dist.	1964 Apr 24 12:50	_	5.96956 AU
morning rise	1958 Nov 17 17:01	14°M53'29 15°M		morning rise	1964 May 06 04:38 1964 Jun 16 03:50	5° <b>と</b> 43'35 15° <b>と</b>	
	1958 Nov 18 04:57 1959 Feb 10 13:45	15°IIL 0°⊀7		retrograde	1964 Jun 16 03:50 1964 Sep 14 19:01	26° <b>8</b> 07'44	
retrograde	1959 Feb 10 13:45 1959 Mar 18 22:10	0° <b>x</b> ¹ 1° <b>x</b> ¹59'24		min. Earth dist.	1964 Nov 11 22:38		4.00972 AU
renograde	1959 Mar 18 22:10 1959 Apr 24 14:11	30°RM		opposition	1964 Nov 11 22:38 1964 Nov 13 09:35	21° <b>8</b> 02'49	
opposition	1959 May 18 20:00	27°ML07'32	1°05'45	direct	1965 Jan 10 09:33	16° <b>8</b> 06'13	1 13 70
оррошнон	2757 111ay 10 20.00	21 HOUT 32	1 00 70	anoci	1700 9411 10 07.33	10 00013	

	1065 Amr 22 14:22	0° <b>I</b> I			1970 Apr 30 06:44	200p <b>O</b>	
	1965 Apr 22 14:32	0°П 5°П27'32		11	=	30° <b>₹</b> Ω	
evening set	1965 May 16 14:02	3° <b>Ц</b> 2/32		direct	1970 Jun 23 09:44	26° <b>£</b> 04'15 0° <b>™</b>	
aaniumatian	1065 May 20, 07:12	8° <b>Ⅱ</b> 39'30	0924102	avanina aat	1970 Aug 15 17:57	13°M40'58	
conjunction minimum elong	1965 May 30 07:12	8° <b>П</b> 39'31	0°34'03	evening set	1970 Oct 27 13:40	15 11640 38 15°M	
max. Earth dist.	1965 May 30 07:14 1965 Jun 01 14:14	о <b>П</b> 3931 9° <b>П</b> 11'39	6.06559 AU	max. Earth dist.	1970 Nov 02 13:58 1970 Nov 07 06:30	15 IIL 16°ML01'55	6.40096 AU
max. Earth dist.	1965 Jun 01 14:14 1965 Jun 13 02:05	9° <b>Д</b> 11'39 11° <b>Д</b> 52'05	6.06559 AU	max. Earth dist.	1970 NOV 07 06:30	10,1101,22	6.40096 AU
morning rise		0°95		aaniumatian	1970 Nov 09 07:21	16°M28'49	0°53'22
retrograde	1965 Sep 21 04:39 1965 Oct 19 19:32	1° <b>©</b> 18'59		conjunction minimum elong	1970 Nov 09 07:21 1970 Nov 09 07:23	16°M28'50	0°53'22
renograde	1965 Nov 17 03:08	1 <b>20</b> 18.39 30°R <b>I</b> I			1970 Nov 21 23:00	10 IIC28 30	0 33 22
min. Earth dist.	1965 Dec 17 01:06	•	4.13301 AU	morning rise	1970 Nov 21 23:00 1971 Jan 14 08:49	19 IIC1349 0° <b>√</b> 7	
	1965 Dec 17 01:06 1965 Dec 18 09:08	26° <b>I</b> I14'31		ratragrada	1971 Mar 23 11:33	6° <b>₹</b> ¹27'25	
opposition direct	1965 Feb 15 06:57	20 II 14 31 21°II 14'56	-0 23 13	retrograde		1°×735'32	1°00'14
direct		0°95		opposition	1971 May 23 08:59		
1-	1966 May 05 14:52			min. Earth dist.	1971 May 24 21:23	1° <b>∡</b> 723'56	4.35176 AU
asc. node	1966 May 30 20:25	5°908'38		1:4	1971 Jun 05 02:12	30°RM	
evening set	1966 Jun 21 20:24	9° <b>©</b> 59'38		direct	1971 Jul 24 19:09	26°M35'48 0°⊀	
aaniumatian	1966 Jul 05 14:05	1200005122	0°03'29	avanina aat	1971 Sep 11 15:33 1971 Nov 27 12:05	0 <b>x</b> . 14° <b>x</b> 34'40	
conjunction		13°905'33		evening set			6 20062 ATT
minimum elong	1966 Jul 05 14:05	13°505'33	0°03'29	max. Earth dist.	1971 Dec 08 03:24	16° <b>≯</b> 58'37	6.28963 AU
behind sun begin	1966 Jul 05 05:48	13°900'53			1071 D 10 04 10	170 70/112	0005122
behind sun end	1966 Jul 05 22:23	13°5510'13	6 <b>2</b> 0 <b>5</b> 6 <b>5</b> 1 <b>X</b> X	conjunction	1971 Dec 10 04:10	17° <b>₹</b> 26'13	0°25'33
max. Earth dist.	1966 Jul 07 09:49	13°930'15	6.20565 AU	minimum elong	1971 Dec 10 04:11	17° <b>₹</b> 26'14	0°25'33
morning rise	1966 Jul 19 07:29	16°511'03		morning rise	1971 Dec 22 19:04	20° <b>∡</b> 17'29	
	1966 Sep 27 13:19	$0$ $\circ$ $\Omega$			1972 Feb 06 19:36	0° <b>ろ</b>	
retrograde	1966 Nov 21 10:22	4° <b>Ω</b> 28'57		retrograde	1972 Apr 25 00:18	8° <b>る</b> 19'24	
	1967 Jan 16 03:50	30° <b>₹</b> 5		opposition	1972 Jun 24 21:43	3° <b>る</b> 26'31	0°11'24
min. Earth dist.	1967 Jan 19 08:30	29° <b>©</b> 34'19	4.27604 AU	min. Earth dist.	1972 Jun 26 06:03	3° <b>ප</b> 16'10	4.21971 AU
opposition	1967 Jan 20 05:17	29° <b>5</b> 27'20	0°31'55		1972 Jul 24 16:43	30°Ŗ <b>⋌</b> 7	
direct	1967 Mar 21 09:15	24° <b>©</b> 25'31		direct	1972 Aug 25 08:01	28° <b>×</b> <sup>7</sup> 29'16	
	1967 May 23 08:20	$0 {\circ} \Omega$		desc. node	1972 Sep 14 15:49	29° <b>₰</b> 07'48	
evening set	1967 Jul 26 06:07	12° <b>Ω</b> 33'39			1972 Sep 25 18:19	0°ප	
	1967 Aug 06 09:06	15° <b>Ω</b>		evening set	1972 Dec 28 16:13	17° <b>る</b> 02'41	
				max. Earth dist.	1973 Jan 08 20:38	19° <b>る</b> 39'03	6.14794 AU
conjunction	1967 Aug 08 18:49	15° <b>Ω</b> 31'43	0°38'10				
minimum elong	1967 Aug 08 18:47	15° <b>Ω</b> 31'42	0°38'09	conjunction	1973 Jan 10 09:19	20° <b>ろ</b> 00'29	-0°11'16
max. Earth dist.	1967 Aug 09 11:58	15° <b>Ω</b> 41'09	6.34053 AU	minimum elong	1973 Jan 10 09:18	20° <b>ろ</b> 00'28	0°11'17
morning rise	1967 Aug 22 05:46	18° <b>Ω</b> 28'41		behind sun begin	1973 Jan 10 03:21	19° <b>る</b> 57'00	
	1967 Oct 19 10:51	0° <b>m</b> )		behind sun end	1973 Jan 10 15:15	20° <b>る</b> 03'56	
retrograde	1967 Dec 22 10:02	5° m 50'28		morning rise	1973 Jan 23 03:05	22°る58'50	
opposition	1968 Feb 20 11:02	0° <b>m</b> 52'38	1°14'20		1973 Feb 23 09:28	0° <b>≈</b>	
min. Earth dist.	1968 Feb 20 08:53	0° m/53′21	4.39277 AU	retrograde	1973 May 30 22:10	12° <b>≈</b> 07'47	
	1968 Feb 27 03:33	30°R <b>Ω</b>		opposition	1973 Jul 30 12:49	7°≈12'15	-0°44'27
direct	1968 Apr 21 23:26	25° <b>Ω</b> 49'46		min. Earth dist.	1973 Jul 31 05:35	7°≈06'48	4.07870 AU
	1968 Jun 15 14:43	0°m		direct	1973 Sep 28 13:26	2°≈17'22	
evening set	1968 Aug 26 19:02	13° <b>m</b> ) 31'43			1974 Jan 03 16:24	15° <b>≈</b>	
C	C	•		evening set	1974 Jan 31 18:29	21° <b>≈</b> 29'03	
conjunction	1968 Sep 09 00:26	16° m 23'08	1°00'30	C			
minimum elong	1968 Sep 09 00:25	16° m 23'07	1°00'30	conjunction	1974 Feb 13 15:53	24° <b>≈</b> 34'07	-0°45'49
max. Earth dist.	1968 Sep 08 14:05	16° m) 17'32	6.43014 AU	minimum elong	1974 Feb 13 15:51	24° <b>≈</b> 34'06	0°45'49
morning rise	1968 Sep 22 03:02	19° m 13'08		max. Earth dist.	1974 Feb 13 07:04	24°≈28'50	6.02042 AU
5	1968 Nov 15 22:44	0∘ <del>⊽</del>		morning rise	1974 Feb 26 15:07	27° <b>≈</b> 40'25	
retrograde	1969 Jan 20 12:29	6° <b>₽</b> 03'25			1974 Mar 08 11:11	0° <b>∀</b>	
opposition	1969 Mar 21 22:53	1° <b>⊆</b> 08'54	1°34'43	retrograde	1974 Jul 07 16:13	17° <b>¥</b> 52'01	
min. Earth dist.	1969 Mar 22 13:57	1° <b>⊆</b> 04'01	4.45092 AU	opposition	1974 Sep 05 20:18	12° <b>)</b> 52'48	-1°27'14
iiiii. Lattii dist.	1969 Mar 30 21:36	30°RM)	4.430)2 AO	min. Earth dist.	1974 Sep 05 25:18		3.97761 AU
direct	1969 May 23 08:20	26° Mp 06'12		direct	1974 Nov 03 12:13	7° <b>H</b> 59'13	3.77701 AC
ancei	1969 Jul 15 13:30	ე∘ <u>ი</u>		evening set	1974 Nov 03 12:13 1975 Mar 08 21:34	27° <b>H</b> 37'55	
evening set	1969 Sep 26 23:15	0 <b>==</b> 13° <b>⊆</b> 37'09		Croning oct	1975 Mar 18 16:47	27 <b>χ</b> 3733	
max. Earth dist.	1969 Sep 26 23:13 1969 Oct 08 11:59	15 <b>≗</b> 37 09 16° <b>₽</b> 06'39	6.45198 AU		17/3 IVIAI 10 10.4/	v I	
man. Darth uist.	1303 001 08 11:39	10 ==00'39	0.43178 AU	conjugation	1075 Mar 22 01:41	0° <b>Υ</b> 49'00	1904:22
conjunction	1060 Oat 00 21:20	1600 24152	1005150	conjunction	1975 Mar 22 01:41		
conjunction	1969 Oct 09 21:38	16° <b>£</b> 24'53		minimum elong	1975 Mar 22 01:40	0°Υ48'59	
minimum elong	1969 Oct 09 21:38	16° <b>£</b> 24'53	1°05'50	max. Earth dist.	1975 Mar 23 00:25	1°Υ02'46	5.95475 AU
morning rise	1969 Oct 22 17:11	19° <b>£</b> 11'20		morning rise	1975 Apr 04 08:59	4° <b>Υ</b> 01'47	
	1969 Dec 16 15:55	0°M		retrograde	1975 Aug 14 19:32	24° <b>Y</b> 42'13	1027145
retrograde	1970 Feb 19 21:58	5°M58'12	1020145	opposition	1975 Oct 13 14:59	19° <b>Υ</b> 39'13	
opposition	1970 Apr 21 15:14	1°M05'49	1°29'45	min. Earth dist.	1975 Oct 12 13:07	19° <b>Y</b> 47'57	3.95623 AU
min. Earth dist.	1970 Apr 22 21:10	บ~แ⊾56'15	4.43615 AU	direct	1975 Dec 10 12:39	14° <b>Ƴ</b> 44'48	

Compunction   1976 Apr 21 1972.0   PCE2331   max. Earth dist   1981 Cat 1 2 1643   207 24507   PC900		1976 Mar 26 10:25	0°₩		evening set	1981 Oct 01 07:10	17° <b>≙</b> 57'35	
miniman along man. Earth dist of 1976 Any 2 1902 2 8750724 8 19790 AU         miniman meling min 1916 Act 2 2016 20 220 220 210 210 210 210 210 210 210	evening set	1976 Apr 14 07:20	4° <b>8</b> 25'31		max. Earth dist.	1981 Oct 12 16:43	20° <b>£</b> 25'33	6.44940 AU
Max. Furth disk	conjunction	1976 Apr 27 19:35	7° <b>8</b> 39'13	-0°57'49	conjunction	1981 Oct 14 04:46	20° <b>≏</b> 45'07	1°05'08
Port	minimum elong	1976 Apr 27 19:37	7° <b>8</b> 39'15	0°57'49	minimum elong	1981 Oct 14 04:47	20° <b>≙</b> 45′07	1°05'08
1975   1976   1977   1977   1976   1976   1977   1976   1976   1977   1977   1976   1977	max. Earth dist.	1976 Apr 29 20:22	8° <b>8</b> 08'24	5.97890 AU	morning rise	1981 Oct 26 23:36	23° <b>ഫ</b> 31′23	
1976   1977   1977   1976   1976   1977	morning rise	1976 May 11 10:41	10° <b>8</b> 54'18			1981 Nov 27 02:19	0°M₊	
Part		1976 May 28 23:27	15° <b>8</b>		retrograde	1982 Feb 24 05:42	10° <b>M</b> 19'47	
1976 No. 18   2022   20   20   20   20   20   20		1976 Aug 23 10:24	$\Pi^{\circ}0$		opposition	1982 Apr 26 00:28	5°M27'31	1°27'01
ame fact dist         1976 Now 16 2-201         2eVeH 1977         40:356 AU         40:750 evening set         1982 Oct 17 15:31         15 15.05         69:754 oct 18 10:05         69:758 AU         70:758 AU         69:758 AU         70:758 AU <th< td=""><td>retrograde</td><td>1976 Sep 19 18:39</td><td>1°<b>Ⅱ</b>12'29</td><td></td><td>min. Earth dist.</td><td>1982 Apr 27 06:41</td><td>5°M17'51</td><td>4.42999 AU</td></th<>	retrograde	1976 Sep 19 18:39	1° <b>Ⅱ</b> 12'29		min. Earth dist.	1982 Apr 27 06:41	5°M17'51	4.42999 AU
Population   1978 Now   18 08.16   20°B 0776 - 19775   1978 1978 1978   1978 1978 1978 1978 1978   1978 1978 1978 1978 1978 1978 1978 1978		1976 Oct 16 20:24	30°₽ <b>႘</b>		direct	1982 Jun 27 18:16	0°M26'11	
1906   1907   1907   180   180   180   180   180   190   1907   180   180   180   190   1907   180	min. Earth dist.	1976 Nov 16 22:01	26° <b>8</b> 19'07	4.02336 AU		1982 Oct 17 15:31	15° <b>™</b>	
1977 May   1   1542   1978 May   1   1542   1   1542   1   1542   1   1542   1   1542   1   1542   1   1542   1   1542   1   1542   1   1542   1   1542   1   1   1542   1   1   1542   1   1   1   1   1   1   1   1   1	opposition	1976 Nov 18 08:16	26° <b>8</b> 07'26	-1°07'54	evening set	1982 Oct 31 20:57	18° <b>M</b> 04'17	
Post	direct	1977 Jan 15 10:56	21° <b>8</b> 10'24		max. Earth dist.	1982 Nov 11 14:34	20°M25'59	6.39185 AU
Conjunction   1977 Jun   04   09.05   13   13   13   13   18   18   18   19   19   19   19   19		1977 Apr 03 15:42	$\Pi^{\circ}0$					
	evening set	1977 May 21 15:56	10° <b>Ⅲ</b> 27′22		conjunction	1982 Nov 13 14:15	20°M52'19	0°50'18
minumal color					minimum elong	1982 Nov 13 14:16	20°M52'20	0°50'18
max. Earth dist.   1977 Jun   16   6151   4" 1105   6   68231 AU   retrograde   1983 Mar 27   22:56   6" 27831   0" 54" 24   10" 13   10" 54" 24   10" 13   10" 54" 24   10" 13   10" 54" 24   10" 13   10" 54" 24   10" 13   10" 54" 24   10" 13   10" 54" 24   10" 13   10" 54" 24   10" 13   10" 54" 24   10" 13   10" 54" 24   10" 13   10" 54" 24   10" 13   10" 54" 24   10" 13   10" 54" 24   10" 13   10" 54" 24   10" 13   10" 54" 24   10" 13   10" 54" 24   10" 13   10" 54" 24   10" 13   10" 54" 24   10" 13   10" 54" 24" 24" 24" 24" 24" 24" 24" 24" 24" 2	conjunction	1977 Jun 04 09:35	13° <b>Ⅲ</b> 38'47	-0°29'12	morning rise	1982 Nov 26 05:26	23°M39'31	
Maniming rise   1977 Jun   18   04.38   16°ES039   05°ES041   1973 Aug   21   1242   07°ES   1973 Aug   10   124   10   130	minimum elong	1977 Jun 04 09:37	13° <b>Ⅲ</b> 38'48	0°29'12		1982 Dec 26 01:57	0° <b>∡</b> ¹	
Part	max. Earth dist.	1977 Jun 06 16:51	14° <b>Ⅱ</b> 10'55	6.08231 AU	retrograde	1983 Mar 27 23:56	10° <b>₹</b> 55'25	
Periograde   1977 Oral   24   10.13   6°\$20831   1°\$21503   41.5107 AU   vering set   1983 Dec   12   20.07   19°\$-7082   1°\$-7082	morning rise	1977 Jun 18 04:38	16° <b>Ⅱ</b> 50'39		opposition	1983 May 27 22:29	6° <b>₹</b> 103'31	0°54'24
Personage   1977 Oct   24   10.13   6°\$\times   2500   31   1507 AU   20   1983 Dec   10   2508   19°\times   2508   19°\time	-	1977 Aug 20 12:42	0°ಅ		min. Earth dist.	1983 May 29 10:51	5° <b>∡</b> ¹51'57	4.34017 AU
min Earth dist.         1977 Dec 21 17.09         19%109/32 4 1.5107 AU         evening set         1983 Dec 12 12.09         19%209/32 5 2.782945         6.2645 AU           opposition         1977 Dec 30 03.00         19%2042 1 -0°1524         max. Earth dist.         1983 Dec 12 12.09         21 %2945         6.2645 AU           direct         1978 Feb 20 0124         26°TI0423         conjunction         1983 Dec 14 12.48         21 %25723         0°205           asc. node         1978 Apr 12 00:12         0°29         minimum clone         1983 Dec 27 03:58         24°24916         0°205           cvening set         1978 Jul 20 10:12         14°254/12         minimum clone         1984 Jun 19 15:00         22°5744         0°205           conjunction         1978 Jul 10 10:38         17°254/92         0°0843         minimum clone         1984 Jun 29 16:12         8°50431         10°35	retrograde	=	6° <b>©</b> 08'31		direct	1983 Jul 29 07:04	1° <b>₹</b> 04'09	
direct         1977 Dec 30 23:50         30°RT         conjunction         1983 Dec 14 12:48         21°R5723         0°20°S           direct         1978 Apr 10 05:29         20°T14457         minimum clong         1983 Dec 14 12:49         21°R5724         0°20°S           evening set         1978 Apr 12 00:12         0°20°S         morning rise         1983 Dec 14 12:49         21°R5724         0°20°S           conjunction         1978 Jul 10 10:37         1°20°4920         0°83         minimum clong         1984 Jun 12 10:16         25°744         4°05°S           behinds un begin         1978 Jul 10 10:37         1°20°4920         0°0843         minimum clong         1984 Jun 20 20:41         7°55443         4°05°S121           behind sun begin         1978 Jul 10 10:37         1°20°4920         0°0843         minimum clong         1984 Jun 20 20:44         7°55443         4°20°S121           behind sun end         1978 Jul 21 0:148         8°20°12         6°23         evening set         1984 Jun 20 20:44         7°55443         4°20°S12           1978 Spo 50 63:03         0°42         0°32         0°42         0°42         0°42         0°42         0°42         0°42         0°42         0°42         0°42         0°42         0°42         0°42         0°42	min. Earth dist.	1977 Dec 21 17:09	1° <b>©</b> 15'03	4.15107 AU	evening set	1983 Dec 01 20:59	19° <b>√</b> 05'24	
direct         1977 Dec 30 23:50         30°RT         conjunction         1983 Dec 14 12:48         21°R5723         0°20°S           direct         1978 Apr 10 05:29         20°T14457         minimum clong         1983 Dec 14 12:49         21°R5724         0°20°S           evening set         1978 Apr 12 00:12         0°20°S         morning rise         1983 Dec 14 12:49         21°R5724         0°20°S           conjunction         1978 Jul 10 10:37         1°20°4920         0°83         minimum clong         1984 Jun 12 10:16         25°744         4°05°S           behinds un begin         1978 Jul 10 10:37         1°20°4920         0°0843         minimum clong         1984 Jun 20 20:41         7°55443         4°05°S121           behind sun begin         1978 Jul 10 10:37         1°20°4920         0°0843         minimum clong         1984 Jun 20 20:44         7°55443         4°20°S121           behind sun end         1978 Jul 21 0:148         8°20°12         6°23         evening set         1984 Jun 20 20:44         7°55443         4°20°S12           1978 Spo 50 63:03         0°42         0°32         0°42         0°42         0°42         0°42         0°42         0°42         0°42         0°42         0°42         0°42         0°42         0°42         0°42	opposition	1977 Dec 23 00:40	1° <b>©</b> 04'21	-0°15'24	max. Earth dist.	1983 Dec 12 12:07	21° <b>×2</b> 9'45	6.27645 AU
Griect   1978 Feb   20   10.52   26° IIM 23   20   20° IIM 25° IIM 2	11	1977 Dec 30 23:50	30°R <b>Ⅱ</b>					
1978 Apr   10 52.9   29 T4457   minimum clong   1983 Dec   14   12.49   21   27   27   47   47   47   47   47   47	direct		•		conjunction	1983 Dec 14 12:48	21° <b>х</b> 57'23	0°20'50
cvening set         1978 Apr 12 0:12         0°B         moming rise         1983 Dec 27 03:58         24°Z49'16         O°B           cvening set         1978 Jun 26 17:27         14°B44472         retrograde         1984 Apr 29 18:37         12°B5744         O°B           conjunction         1978 Jul 10 10:33         17°B4920         0°843         opposition         1984 Jun 29 16:12         8°B0431         0°350           behind sun begin         1978 Jul 10 10:37         17°E34920         0°843         min. Earth dist.         1984 Jun 20 22:41         7°E3445         420569 AU           behind sun end         1978 Jul 10 10:47         17°E34920         cec. node         1984 Jun 20 21:41         4°B51123         622353 AU         cecinode         1984 Jul 20 144         4°B5121         622353 AU         cecinig set         1985 Jun 14 22:19         24°E4479         4°B5121         6245409         cecinig set         1985 Jun 14 22:19         24°E4479         1°1621         1978 Jul 24         4°20820         0°28534         minimum elong         1985 Jun 14 22:19         24°E4233         0°1621         1979 Jul 24         15°84         4°20820         0°3853         max. Earth dist.         1985 Jun 14 22:19         24°E4233         0°1621         1979 Jul 24         15°24         0°221         1985 Jun 14 22:19 <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td> <td></td>					•			
Conjunction   1978 Jun   26 17:27   14°54472   18°54472   18'15   1984 Jun   19 15:04   12°55774   12°65774   18'15   1984 Jun   19 15:04   12°55744   18'15   1984 Jun   19 16:12   18'56445   18'15   18'15   1984 Jun   19 16:12   18'56445   18'15		-			_			
conjunction         1978 Jul 10 10.38         17° 549′20         0°08′43         retrograde opposition         1988 Jun 20 16.12         8° 36′43         0°03′50           minimum clong minimum clong behind sun edgi behind sun edgi max. Earth dist.         1978 Jul 10 03.28         17° 545′45         0°08′43         direct         1984 Jun 27 01.47         4° 551′21         4° 551′21         20° 54′45         4° 20569 AU         4° 551′21         4° 551	evening set	=						
conjunction         1978 Jul 10 10:38         17° Ξ49′20         0°08′43         opposition         1984 Jun 29 16:12         8° Ξ60′431         0°03′50           minimam clong         1978 Jul 10 10:328         17° Ξ49′20         0°08′43         minimath dist         1984 Jun 30 22:41         7° Ξ54′45         4.2056 PAU           behind sun begin         1978 Jul 10 17:47         17° Ξ49′20         o°08′45         direct         1984 Jul 29 23:02         3° 30′734         -           max. Earth dist         1978 Jul 12 01:48         18° Ξ21′123         6.2353 AU         evening set         1985 Jan 02 04:47         21° Ξ44′00         -           morning rise         1978 Jul 24 03:33         0° Ω          conjunction         1985 Jan 12 22:19         24° Ξ4238         0°16′21           retrograde         1978 Nov 25 20:30         9° Ω0335          conjunction         1985 Jan 14 22:19         24° Ξ4233         0°16′21           grips from 10         1979 Jan 24 15:18         4° Ω08°20         0°35°3         max. Earth dist.         1985 Jan 13 13:43         24° Ξ42373         0°16′21           direct         1979 Jan 23 06:11         15° Ω          max. Earth dist.         1985 Jan 10 21:26         22° № 333         0°76°2          retrograde	evening sec	17/03411 20 17.27	11 0 1121		retrograde			
minimum elong   1978 Jul   10 10:37   17°\$04920   0°08'43   min. Earth dist.   1984 Jul   20 12:41   7°\$5445   4.20569 AU   behind sun begin   1978 Jul   10 10:47   17°\$5520   direct   1984 Jul   27 01:47   4°\$5127   4°\$51	conjunction	1978 Jul 10 10:38	17°9649'20	0°08'43	•	•		0°03'50
behind sun begin   1978 Jul   10 03:28   17°\$45!9   desc. node   1984 Jul   27 01:47   4°\$5!21   3°\$60734   max. Earth dist.   1978 Jul   12 01:48   18°\$21!23   6.22333 AU   evening set   1984 Jul   27 01:47   21°\$44'09   3°\$60'73   max. Earth dist.   1978 Jul   24 03:30   0°\$\$2.   conjunction   1985 Jul   12 12:148   18°\$21!23   6.22333 AU   evening set   1985 Jul   12 12:148   18°\$21!23   6.22333 AU   evening set   1985 Jul   12 12:19   24°\$42'37   0°\$16'21   opposition   1978 Nov   25 20:30   0°\$\$2.   conjunction   1985 Jul   12 2:19   24°\$42'37   0°\$16'21   opposition   1979 Jul   24 15:18   4°\$\$00'20   0°38'53   max. Earth dist.   1985 Jul   12 13:43   24°\$52'31   6.13438 AU   minimum elong   1979 Jul   24 15:18   4°\$\$00'20   0°\$\$12"   moming rise   1985 Jul   10 13:34   24°\$52'31   6.13438 AU   moming rise   1985 Jul   10 12:36   15°\$\$2.   conjunction   1985 Jul   10 12:36   15°\$\$2.   conjunction   1979 Jul   21 06:11   15°\$\$2.   retrograde   1985 Jul   10 12:36   15°\$\$4   conjunction   1979 Jul   21 06:11   15°\$\$4.   conjunction   1979 Jul   21 06:11   15°\$\$4.   conjunction   1979 Jul   21 08:11   15°\$\$4.   conjunction   1985 Jul   10 12:36   15°\$\$4.   conjunction   1979 Jul   21 08:12   20°\$\$40'25   0°\$\$4.   conjunction   1985 Jul   10 12:36   15°\$\$4.   conjunction   1979 Jul   21 08:13   22°\$\$45'80'2   conjunction   1985 Jul   10 12:36   15°\$\$4.   conjunction   1979 Jul   21 08'\$\$4.   conjunction   1985 Jul   10 12:36   15°\$\$4.   conjunction   1985 Jul   10 12:36   15°\$\$4.   conjunction   1985 Jul   10 12:36   15°\$\$4.   conjunction   1979 Jul   21 08'\$\$4.   conjunction   1985 Jul   10 12:36   15°\$\$4.   conjunction   1980 Jul   10 12:36   15°\$\$4.   conjunction   1980 Jul   10 12:36   1	·				**			
Debind sun end max. Earth dist.   1978 Jul   10 17:47   17*@53*20   cevening set   1984 Aug 29 23:02   3°\$G7734   cevening set   1985 Jan   02 04:47   21°\$G4409   cevening set   1978 Jul   2 10:48   8°\$G11'23   cevening set   1985 Jan   10 2 04:47   21°\$G4409   cevening set   1978 Nov 25 20:30   20°\$G53'47   cevening set   1985 Jan   14 22:19   24°\$G42'38   o°16'21   cevening set   1978 Nov 25 20:30   o°\$Q\$U3735   minimum elong   1985 Jan   14 22:19   24°\$G42'37   o°16'21   cevening set   1979 Jan   23 21:42   4°\$Q08'20   249221 AU   morning rise   1985 Jan   14 22:19   24°\$G42'37   o°16'21   cevening set   1979 Jan   23 21:42   4°\$Q\$08'20   249221 AU   morning rise   1985 Jan   13 13:43   24°\$G23'31   6.13438 AU   minimum elong   1985 Jan   20 01:33   15°\$≈   cevening set   1979 Jul   21 06:11   15°\$Q\$   certograde   1985 Jun   04 22:24   16°\$≈5750   cevening set   1979 Jul   21 06:11   15°\$Q\$   certograde   1985 Jun   04 22:24   16°\$≈5750   cevening set   1979 Jul   21 06:11   15°\$Q\$   cevening set   1985 Jul   10 21:36   15°\$≈   cevening set   1979 Jul   23 021:13   17°\$Q04'54   cevening set   1985 Jul   10 21:36   15°\$≈   cevening set   1979 Jul   23 09:09   20°\$Q02'04   o°42'11   cevening set   1985 Dec   15 22:57   15°\$≈   cevening set   1985 Dec   15 22:57   15°\$≈   cevening set   1985 Dec   15 22:57   15°\$≈   cevening set   1980 Dec   26 14:59   0°\$\$\text{000}\$   o°\$\text{000}\$   o°\$\text{0000}\$   o°\$\text{000}\$   o°\$\text{000}\$   o°\$\text{000}\$   o°\$\text{0000}\$   o°\$\text{000}\$	•			0 00 43				4.2030) 110
max. Earth dist.         1978 Jul 12 01:48 03:30 20°253'34'         evening set         1985 Jan 02 04:47 02 0:47         21°54/409	=							
morning rise   1978 Jul   24 03:30   20°\$5347   conjunction   1985 Jan   14 22:19   24°\$42'38   -0°16'21   conjunction   1978 Nov   25 20:30   9°\$03'35   main minum elong   1985 Jan   14 22:19   24°\$42'37   0°16'21   conjunction   1979 Jan   24 15:18   4°\$00'226   0°38'53   max Earth dist.   1979 Jan   23 21:42   4°\$08'20   4.2921 AU   morning rise   1985 Jan   13 13:43   24°\$23'31   6.13438 AU   min. Earth dist.   1979 Jan   23 21:42   4°\$00'20   4.2921 AU   morning rise   1985 Jan   13 13:43   24°\$23'31   6.13438 AU   min. Earth dist.   1979 Mar   26 00:55   29°\$60'20   retrograde   1985 Jan   04 22:24   16°\$5.50   1979 Jan   21 06:11   15°\$0.   retrograde   1985 Jan   04 22:24   16°\$5.50   16°\$5.50   1979 Jan   21 06:11   15°\$0.   retrograde   1985 Jan   04 22:24   16°\$5.50   16°\$5.50   1985 Jan   14 22:19   24°\$4.144   16°\$5.50   1979 Jan   21 06:11   15°\$0.   retrograde   1985 Jan   04 22:24   16°\$5.50   16°\$5.50   1979 Jan   21 06:11   15°\$0.   retrograde   1985 Jan   04 22:24   16°\$5.50   16°\$5.50   1979 Jan   21 06:11   15°\$0.   retrograde   1985 Jan   04 22:24   16°\$5.50   10°\$5.50   11°\$5.50				6 22353 ATT		•		
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retrograde   1978 Nov 25 20:30   9°\$03'35   minimum elong   1985 Jan 14 22:19   24°\$\frac{3}{2}37\$   0°16'21   opposition   1979 Jan 24 15:18   4°\$\frac{3}{0}02'26   0°38'53   max. Earth dist.   1985 Jan 13 13:43   24°\$\frac{2}{2}3'31   6.13438 AU   morning rise   1985 Jan 27 16:24   27°\$\frac{3}{2}41'44   4°\$\frac{3}{0}02'3   4°\$\frac{3}{0}02'3   5°\$\frac{3}{0}02'3   1985 Feb 06 15:35   0°\sigma   1979 Jan 24 08:25   29°\$\frac{3}{0}00'20   1985 Apr 30 01:53   15°\sigma   1979 Jan 21 06:11   15°\$\frac{3}{0}\$   1979 Jul 30 21:13   17°\$\frac{3}{0}45   1985 Jul 10 21:36   15°\sigma   1979 Jul 30 21:13   17°\$\frac{3}{0}45   1985 Jul 10 21:36   15°\sigma   1979 Jul 30 21:13   17°\$\frac{3}{0}45   1985 Jul 10 21:36   15°\sigma   10°\$\frac{3}{0}4   11.41   12°\sigma   12°\sigma   10°\$\frac{3}{0}4   11.41   12°\sigma   10°\$\sigma	morning risc				agniunation	1005 Ion 14 22:10	240至42120	0016/21
opposition         1979 Jan 24 15:18         4°Ω02'26         0°38'53         max. Earth dist.         1985 Jan 13 13:43         24°€23'31         6.13438 AU           min. Earth dist.         1979 Jan 23 21:42         4°Ω08'20         4.29221 AU         morning rise         1985 Jan 27 16:24         27°₹41'44         27°₹41'44           direct         1979 Mar 26 0.055         29°₹00'20         -         1985 Feb 06 15:35         0°∞         -         -         1985 Feb 06 15:35         0°∞         -         -         -         1985 Feb 06 15:35         0°∞         -         -         -         1985 Jan 04 15:31         15°%         -         -         -         1985 Jan 04 15:31         15°%         -	retrograde	1			=			
min. Earth dist.	•			0038153	_			
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direct   1979 Mar 26 00.55   29°\$00'20   retrograde   1985 Apr 30 01:53   15°\$   retrograde   1985 Jun 04 22:24   16°\$ 57° 5   retrograde   1985 Jun 04 22:24   12° 57° 5   retrograde   1985 Jun 04 22:24   12° 57° 6   retrograde   1985 Jun 04 22:34   12° 57° 12′ 4   retrograde   1985 Jun 04 22:37   11° 57° 2   4.06678 AU   retrograde   1979 Aug 13 09:12   20° \$02'04   0°42'11   1985 Dec 15 22:57   15° 5   retrograde   1979 Aug 26 18:57   22° \$05'802   retrograde   1979 Aug 26 18:57   22° \$05'802   retrograde   1979 Dec 26 14:59   10° \$\bar{\text{morning rise}}\$   1986 Feb 18 10:06   29°\$ 2734   -0° 49′ 29	iiiii. Lattii dist.			4.2)221 AU	morning risc			
1979 Apr 20 08:29   0°\$\( \rightarrow{\cap{0}}{1979 Jul 21 06:11} \) 15°\$\( \rightarrow{\cap{0}}{1} \) 15°\$\( \rightarrow{\cap{0}}{1} \) 1979 Jul 21 06:11   15°\$\( \rightarrow{\cap{0}}{1} \) 17°\$\( \rightarrow{\cap{0}}{1} \) 1979 Jul 30 21:13   17°\$\( \rightarrow{\cap{0}}{1} \) 17°\$\( \rightarrow{\cap{0}}{1} \) 1985 Jul 10 21:36   15°\$\( \rightarrow{\cap{0}}{1} \) 10°\$\( \ri	direct							
evening set	direct				ratrograda	•		
evening set   1979 Jul   30   21:13   17° Ω04′54   min. Earth dist.   1985 Aug 04   11:41   12°≈01′54   -0°51′24   min. Earth dist.   1985 Aug 05   02:39   11°≈57′02   4.06678 AU   0°01/10   0°02′10   0°0		•			retrograde			
min. Earth dist.   min. Earth dist.   1985 Aug 05 02:39   11°≈57'02   4.06678 AU     minimum elong   1979 Aug 13 09:12   20°Ω02'04   0°42'11   1985 Oct 03 08:17   7°≈07'16     max. Earth dist.   1979 Aug 13 23:49   20°Ω02'04   0°42'11   1985 Dec 15 22:57   15°≈     max. Earth dist.   1979 Aug 26 18:57   22°Ω58'02     max. Earth dist.   1979 Aug 26 18:57   22°Ω58'02     morning rise   1979 Sep 29 10:23   0°™	ovening set				onnosition			0051124
Conjunction   1979 Aug   13   09:12   20° Ω02'05   0°42'10   direct   1985 Oct   03   08:17   7°≈07'16   minimum elong   1979 Aug   13   09:09   20° Ω02'04   0°42'11   1985 Dec   15   22:57   15°≈	evening set	1979 Jul 30 21.13	17 000434					
minimum elong         1979 Aug 13 09:09         20°Ω02'04         0°42'11         1985 Dec 15 22:57         15°≈           max. Earth dist.         1979 Aug 13 23:49         20°Ω10'06         6.35382 AU         evening set         1986 Feb 05 12:11         26°≈21'50           morning rise         1979 Aug 26 18:57         22°Ω58'02         conjunction         1986 Feb 18 10:06         29°≈27'34         -0°49'29           retrograde         1979 Dec 26 14:59         10° № 14'41         minimum elong         1986 Feb 18 10:04         29°≈27'33         0°49'29           opposition         1980 Feb 24 18:02         5° № 17'20         1°18'39         max. Earth dist.         1986 Feb 18 10:05         0° №         0° №           direct         1980 Apr 26 08:47         0° № 14'28         morning rise         1986 Mar 03 10:23         2° № 34'43         0° №           evening set         1980 Apr 26 08:47         0° № 14'28         morning rise         1986 Mar 03 10:23         2° № 34'43         0° №           conjunction         1980 Sep 13 09:55         20° № 45'23         1°02'19         min. Earth dist.         1986 Sep 10 13:06         17° № 54'24         3.97190 AU           minimum elong         1980 Sep 13 09:55         20° № 45'22         1°02'19         direct         1986 Nov 08 09:27 <th< td=""><td>conjunction</td><td>1070 Aug 13 00:12</td><td>200 002'05</td><td>0°42'10</td><td></td><td>=</td><td></td><td>4.00078 AU</td></th<>	conjunction	1070 Aug 13 00:12	200 002'05	0°42'10		=		4.00078 AU
max. Earth dist. 1979 Aug 13 23:49 20° \$\Omega 10'06 6.35382 AU morning rise 1979 Aug 26 18:57 22° \$\Omega 58'02 \\ 1979 Sep 29 10:23 0° \omega \\ 1979 Dec 26 14:59 10° \omega 14'41 \\ 1980 Feb 24 18:02 5° \omega 17'20 1° 18'39 \\ 1980 Feb 24 17:18 5° \omega 17'35 4.40254 AU \\ 1980 Feb 24 17:18 5° \omega 17'35 4.40254 AU \\ 1980 Feb 24 17:18 5° \omega 17'35 4.40254 AU \\ 1980 Feb 24 17:18 5° \omega 17'35 4.40254 AU \\ 1980 Feb 24 17:18 5° \omega 17'35 4.40254 AU \\ 1980 Feb 24 17:18 5° \omega 17'35 4.40254 AU \\ 1980 Feb 24 17:18 5° \omega 17'35 4.40254 AU \\ 1980 Feb 24 17:18 5° \omega 17'35 4.40254 AU \\ 1980 Feb 24 17:18 5° \omega 17'35 4.40254 AU \\ 1980 Feb 24 17:18 5° \omega 17'35 4.40254 AU \\ 1980 Feb 24 17:18 5° \omega 17'35 4.40254 AU \\ 1980 Feb 24 17:18 5° \omega 17'35 4.40254 AU \\ 1980 Feb 24 17:18 5° \omega 17'35 4.40254 AU \\ 1980 Feb 24 17:18 5° \omega 17'35 4.40254 AU \\ 1980 Feb 24 17:18 5° \omega 17'35 4.40254 AU \\ 1980 Feb 24 17:18 5° \omega 17'35 4.40254 AU \\ 1980 Feb 25 10 17:01 22° \omega 34'43 \\ 1980 Feb 26 10 17:01 22° \omega 34'43 \\ 1980 Feb 27 10 10 10 10° \omega 1980 Feb 27 10 10:10 10° \omega 1980 Feb 28 10 10 10:10 10° \omega 1980 Feb 29 10 10:10 10° \omega 10° \omeg		•			direct			
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1979 Sep 29 10:23   0° m   conjunction   1986 Feb 18 10:06   29°≈27'34   -0°49'29     retrograde   1979 Dec 26 14:59   10° m   14'41   minimum elong   1986 Feb 18 10:04   29°≈27'33   0°49'29     opposition   1980 Feb 24 18:02   5° m   17'20   1°18'39   max. Earth dist.   1986 Feb 18 03:25   29°≈23'33   6.01102 AU     min. Earth dist.   1980 Feb 24 17:18   5° m   17'35   4.40254 AU   morning rise   1986 Mar 03 10:23   2° m   34'43     evening set   1980 Aug 31 05:40   17° m   54'38   retrograde   1986 Jul 12 17:01   22° m   51'26     conjunction   1980 Sep 13 09:55   20° m   45'23   1°02'19   min. Earth dist.   1986 Sep 10 13:06   17° m   54'38     max. Earth dist.   1980 Sep 13 09:55   20° m   45'22   1°02'19   direct   1986 Nov 08 09:27   12° m   58'06     max. Earth dist.   1980 Sep 12 19:41   20° m   37'41   6.43578 AU   evening set   1987 Mar 02 18:41   0° m     retrograde   1981 Jan 24 19:23   10° Ω 23'21   conjunction   1987 Mar 27 00:55   5° M 49'46   -1°04'59     opposition   1981 Mar 26 05:54   5° Ω 29'14   1°35'34   minimum elong   1987 Mar 27 00:55   5° M 49'46   1°04'59     min. Earth dist.   1981 Mar 26 23:42   5° Ω 23'30   4.45245 AU   max. Earth dist.   1987 Mar 28 03:45   6° M 06'01   5.95325 AU		-		0.55562 AU	evening set	1700100 03 12.11	20 ~21 30	
Pretrograde   1979 Dec 26 14:59   10° mp 14'41   minimum elong   1986 Feb 18 10:04   29°≈27'33   0°49'29     Opposition   1980 Feb 24 18:02   5° mp 17'20   1°18'39   max. Earth dist.   1986 Feb 18 03:25   29°≈23'33   6.01102 AU     min. Earth dist.   1980 Feb 24 17:18   5° mp 17'35   4.40254 AU   morning rise   1986 Feb 20 16:05   0° H     direct   1980 Apr 26 08:47   0° mp 14'28   morning rise   1986 Mar 03 10:23   2° H 34'43     evening set   1980 Aug 31 05:40   17° mp 54'38   retrograde   1986 Jul 12 17:01   22° H 51'26     conjunction   1980 Sep 13 09:55   20° mp 45'23   1°02'19   min. Earth dist.   1986 Sep 10 13:06   17° H 54'24   3.97190 AU     minimum elong   1980 Sep 13 09:54   20° mp 45'22   1°02'19   direct   1986 Nov 08 09:27   12° H 58'06     max. Earth dist.   1980 Sep 12 19:41   20° mp 37'41   6.43578 AU   evening set   1987 Mar 02 18:41   0° morning rise   1980 Oct 27 10:10   0° Ω     retrograde   1981 Jan 24 19:23   10° Ω 23'21   conjunction   1987 Mar 27 00:55   5° M 49'46   -1°04'59     opposition   1981 Mar 26 05:54   5° Ω 29'14   1°35'34   minimum elong   1987 Mar 27 00:55   5° M 49'46   1°04'59     min. Earth dist.   1981 Mar 26 23:42   5° Ω 23'30   4.45245 AU   max. Earth dist.   1987 Mar 28 03:45   6° M 6'0'0   5.95325 AU	morning risc	-			conjunction	1086 Fab. 18 10:06	20°~~27'34	0.040,50
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conjunction         1980 Sep 13 09:55         20° m/45'23         1°02'19         min. Earth dist.         1986 Sep 10 21:15         17° ★51'42 -1°30'42           minimum elong         1980 Sep 13 09:55         20° m/45'22         1°02'19         direct         1986 Nov 08 09:27         12° ★58'06           max. Earth dist.         1980 Sep 12 19:41         20° m/37'41         6.43578 AU         1987 Mar 02 18:41         0° ↑           morning rise         1980 Sep 26 11:30         23° m/34'45         evening set         1987 Mar 13 19:39         2° ↑38'07           retrograde         1981 Jan 24 19:23         10° Ω         Conjunction         1987 Mar 27 00:55         5° ↑49'46 -1° 04'59           opposition         1981 Mar 26 05:54         5° Ω 29'14         1°35'34         minimum elong         1987 Mar 27 00:55         5° ↑49'46 1° 04'59           min. Earth dist.         1981 Mar 26 23:42         5° Ω 23'30         4.45245 AU         max. Earth dist.         1987 Mar 28 03:45         6° ↑06'01         5.95325 AU		-			•			
conjunction       1980 Sep 13 09:55       20°mp45'23       1°02'19       min. Earth dist.       1986 Sep 10 13:06       17°¥54'24       3.97190 AU         minimum elong       1980 Sep 13 09:54       20°mp45'22       1°02'19       direct       1986 Nov 08 09:27       12°¥58'06       12°¥58'06         max. Earth dist.       1980 Sep 12 19:41       20°mp37'41       6.43578 AU       1987 Mar 02 18:41       0°°       0°°         morning rise       1980 Sep 26 11:30       23°mp34'45       evening set       1987 Mar 13 19:39       2°°√38'07         retrograde       1981 Jan 24 19:23       10°Ω       23'21       conjunction       1987 Mar 27 00:55       5°°√49'46 -1°04'59         opposition       1981 Mar 26 05:54       5°Ω29'14       1°35'34       minimum elong       1987 Mar 27 00:55       5°°√49'46 1°04'59         min. Earth dist.       1981 Mar 26 23:42       5°Ω23'30       4.45245 AU       max. Earth dist.       1987 Mar 28 03:45       6°°°06'01       5.95325 AU	evening set	1700 Aug 31 03:40	1 / III 34 38					1020142
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morning rise 1980 Sep 26 11:30 23° № 34'45 evening set 1987 Mar 13 19:39 2° № 38'07  1980 Oct 27 10:10 0° ♀  retrograde 1981 Jan 24 19:23 10° ♀ 23'21 conjunction 1987 Mar 27 00:55 5° № 49'46 -1° 04'59  opposition 1981 Mar 26 05:54 5° ♀ 29'14 1° 35'34 minimum elong 1987 Mar 27 00:55 5° № 49'46 1° 04'59  min. Earth dist. 1981 Mar 26 23:42 5° ♀ 23'30 4.45245 AU max. Earth dist. 1987 Mar 28 03:45 6° № 06'01 5.95325 AU		*			анест			
1980 Oct 27 10:10 0° \(\Omega\)  retrograde 1981 Jan 24 19:23 10° \(\Omega\)23'21 conjunction 1987 Mar 27 00:55 5° \(\Varphi\)49'46 -1° 04'59 opposition 1981 Mar 26 05:54 5° \(\Omega\)29'14 1° 35'34 minimum elong 1987 Mar 27 00:55 5° \(\Varphi\)49'46 1° 04'59 min. Earth dist. 1981 Mar 26 23:42 5° \(\Omega\)23'30 4.45245 AU max. Earth dist. 1987 Mar 28 03:45 6° \(\Varphi\)06'01 5.95325 AU		•	-	0.433/8 AU				
retrograde 1981 Jan 24 19:23 10° \(\Omega\)23'21 conjunction 1987 Mar 27 00:55 5° \(\cdot\)49'46 -1° 04'59 opposition 1981 Mar 26 05:54 5° \(\Omega\)29'14 1° 35'34 minimum elong 1987 Mar 27 00:55 5° \(\cdot\)49'46 1° 04'59 min. Earth dist. 1981 Mar 26 23:42 5° \(\Omega\)23'30 4.45245 AU max. Earth dist. 1987 Mar 28 03:45 6° \(\cdot\)06'01 5.95325 AU	morning rise	•			evening set	198 / Mar 13 19:39	2°°¥′38'07	
opposition 1981 Mar 26 05:54 5°№29'14 1°35'34 minimum elong 1987 Mar 27 00:55 5° <b>Y</b> 49'46 1°04'59 min. Earth dist. 1981 Mar 26 23:42 5° <b>£</b> 23'30 4.45245 AU max. Earth dist. 1987 Mar 28 03:45 6° <b>Y</b> 06'01 5.95325 AU						100734 07 00 5	E000	100450
min. Earth dist. 1981 Mar 26 23:42 5° № 23'30 4.45245 AU max. Earth dist. 1987 Mar 28 03:45 6° № 06'01 5.95325 AU	•			100512				
	* *				_			
direct 1981 May 27 18:26 0°±26'42 morning rise 1987 Apr 09 09:09 9°Υ'03'05				4.45245 AU				5.95325 AU
	direct	1981 May 27 18:26	0° <b>£</b> 26'42		morning rise	1987 Apr 09 09:09	9°° <b>Y</b> ′03'05	

. 1	1007 4 10 21 07	2000042151		. ,	1002 0 + 05 12 22	220 0 15155	
retrograde	1987 Aug 19 21:07	29° <b>Y</b> 43'51		evening set	1993 Oct 05 13:32	22° <b>Ω</b> 15'55	
opposition	1987 Oct 18 14:32	24° <b>Y</b> 40'30		max. Earth dist.	1993 Oct 16 20:07	24° <b>≏</b> 42'29	6.44678 AU
min. Earth dist.	1987 Oct 17 12:16	24° <b>Ƴ</b> 49'23	3.95915 AU				
direct	1987 Dec 15 12:22	19° <b>Ƴ</b> 45'50		conjunction	1993 Oct 18 10:16	25° <b>≏</b> 03'13	1°04'03
	1988 Mar 08 15:44	$9^{\circ}$ 8		minimum elong	1993 Oct 18 10:17	25° <b>≏</b> 03'14	1°04'03
evening set	1988 Apr 19 07:42	9° <b>8</b> 25'33		morning rise	1993 Oct 31 04:26	27° <b>≏</b> 49'19	
					1993 Nov 10 08:15	0°M	
conjunction	1988 May 02 20:59	12° <b>8</b> 39'25	-0°55'04	retrograde	1994 Feb 28 13:50	14°M39'22	
minimum elong	1988 May 02 21:02	12° <b>8</b> 39'26	0°55'03	opposition	1994 Apr 30 08:55	9° <b>M</b> 47'14	1°23'47
max. Earth dist.	1988 May 04 23:42	13° <b>8</b> 09'40	5.98600 AU	min. Earth dist.	1994 May 01 17:17	9°M36'55	4.42273 AU
max. Lattii dist.	1988 May 12 16:57	15° <b>8</b>	3.76000 AC	direct	1994 Jul 02 03:33	4°M46'05	4.42273 AO
	•	_		direct			
morning rise	1988 May 16 13:00	15° <b>8</b> 54'34			1994 Sep 30 15:19	15°M	
	1988 Jul 21 24:00	$\Pi^{\circ 0}$		evening set	1994 Nov 05 02:54	22°M25'51	
retrograde	1988 Sep 24 13:58	6° <b>Ⅱ</b> 07'48		max. Earth dist.	1994 Nov 15 18:19	24°M46'46	6.38024 AU
min. Earth dist.	1988 Nov 21 16:12		4.03397 AU				
opposition	1988 Nov 23 03:04	1° <b>Ⅱ</b> 02'49	-1°01'47	conjunction	1994 Nov 17 19:48	25° <b>™</b> 14'11	0°46'57
	1988 Nov 30 20:53	30° <b>₹</b> 8		minimum elong	1994 Nov 17 19:50	25°M14'12	0°46'57
direct	1989 Jan 20 06:12	26° <b>8</b> 05'28		morning rise	1994 Nov 30 10:50	28°M01'46	
	1989 Mar 11 03:26	$\Pi^{\circ}0$			1994 Dec 09 10:54	0° <b>∡</b> ¹	
evening set	1989 May 26 15:14	15° <b>Ⅱ</b> 19'44		retrograde	1995 Apr 01 12:03	15° <b>∡</b> ¹23'01	
<b>8</b>				opposition	1995 Jun 01 11:22	10° <b>∡</b> ³30'57	0°48'13
conjunction	1989 Jun 09 09:10	18° <b>Ⅲ</b> 30'43	0°24'10	min. Earth dist.	1995 Jun 02 23:08	10° <b>₹</b> 19'33	4.32471 AU
minimum elong	1989 Jun 09 09:11	18° <b>Ⅱ</b> 30'43				5° <b>×</b> <sup>7</sup> 31'49	4.324/1 AU
Č				direct	1995 Aug 02 16:44		
max. Earth dist.	1989 Jun 11 13:49	19° <b>Ⅱ</b> 01'13	6.09553 AU	evening set	1995 Dec 06 05:45	23°×37'00	
morning rise	1989 Jun 23 04:30	21° <b>∏</b> 42'04		max. Earth dist.	1995 Dec 16 23:15	26° <b>₹</b> 03'14	6.25839 AU
	1989 Jul 30 23:50	0					
retrograde	1989 Oct 29 00:03	10° <b>©</b> 52'38		conjunction	1995 Dec 18 21:43	26° <b>₹</b> 29'44	0°15'55
min. Earth dist.	1989 Dec 26 08:31	5° <b>©</b> 58'53	4.16549 AU	minimum elong	1995 Dec 18 21:44	26° <b>₹</b> 29'45	0°15'55
opposition	1989 Dec 27 14:16	5°5948'46	-0°07'44	behind sun begin	1995 Dec 18 20:02	26° <b>∡</b> ¹28'47	
asc. node	1990 Feb 19 20:20	0° <b>©</b> 50'57		behind sun end	1995 Dec 18 23:26	26° <b>∡</b> ³30'43	
direct	1990 Feb 24 19:14	0°5548'29		morning rise	1995 Dec 31 12:57	29° <b>∡</b> ¹22'25	
evening set	1990 Jul 01 12:33	19° <b>©</b> 25'09			1996 Jan 03 07:22	8°0	
•				retrograde	1996 May 04 15:37	17° <b>る</b> 39'19	
conjunction	1990 Jul 15 05:32	22° <b>©</b> 29'20	0°13'46	desc. node	1996 Jun 06 12:18	16° <b>る</b> 01'32	
minimum elong	1990 Jul 15 05:31	22° <b>©</b> 29'19	0°13'46	opposition	1996 Jul 04 11:41	12°る45'50	-0°03'56
behind sun begin	1990 Jul 15 01:19	22° <b>©</b> 26'59	0 15 .0	min. Earth dist.	1996 Jul 05 17:33	12° <b>る</b> 36'15	4.18609 AU
behind sun end	1990 Jul 15 09:42	22° <b>©</b> 31'40		direct	1996 Sep 03 14:37	7° <b>る</b> 49'12	4.10007710
			( 22020 ATT			7 34912 26° <b>る</b> 31'03	
max. Earth dist.	1990 Jul 16 19:36	22°950'41	6.23828 AU	evening set	1997 Jan 06 19:16		C 11407 ATT
morning rise	1990 Jul 28 21:36	25° <b>©</b> 32'50		max. Earth dist.	1997 Jan 18 05:49	29° <b>る</b> 12'06	6.11487 AU
_	1990 Aug 18 07:30	$0^{\circ}\Omega$				<del></del>	
retrograde	1990 Nov 30 05:03	13° <b>Ω</b> 35'46		conjunction	1997 Jan 19 13:07	29° <b>る</b> 30'31	
min. Earth dist.	1991 Jan 28 08:00	8° <b>Ω</b> 40'38	4.30609 AU	minimum elong	1997 Jan 19 13:06	29° <b>る</b> 30'31	0°21'28
opposition	1991 Jan 29 00:26	8° <b>Ω</b> 35'09	0°45'27		1997 Jan 21 15:13	0° <b>≈</b>	
direct	1991 Mar 30 13:15	3° <b>Ω</b> 32'57		morning rise	1997 Feb 01 08:03	2° <b>≈</b> 30'46	
	1991 Jul 04 04:26	15° <b>Ω</b>			1997 Mar 31 22:31	15° <b>≈</b>	
evening set	1991 Aug 04 11:32	21° <b>Ω</b> 34'31		retrograde	1997 Jun 10 00:24	21° <b>≈</b> 56′27	
•				opposition	1997 Aug 09 13:39	16° <b>≈</b> 59'59	-0°58'17
conjunction	1991 Aug 17 22:24	24° <b>Ω</b> 30'48	0°45'51	min. Earth dist.	1997 Aug 10 01:05	16°≈56'15	4.04909 AU
minimum elong	1991 Aug 17 22:22	24° <b>Ω</b> 30'46	0°45'51		1997 Aug 25 08:48	15°R <b>≈</b>	
max. Earth dist.	1991 Aug 18 08:24	24° <b>Ω</b> 36'15	6.36575 AU	direct	1997 Oct 08 04:37	12°≈05'32	
morning rise	e e	27° <b>Ω</b> 25'50	0.30373 AC	direct	1997 Nov 20 02:33	12 <b>≈</b> 03 32	
morning risc		21 <b>06</b> 2330				15 ~	
	1991 Aug 31 07:15					00M	
. 1	1991 Sep 12 06:00	0° <b>m</b>		. ,	1998 Feb 04 10:52	0° <b>∀</b>	
retrograde	1991 Sep 12 06:00 1991 Dec 30 21:33	0° <b>ዀ</b> 14° <b>ዀ</b> 37'45		evening set		0° <b>米</b> 1° <b>米</b> 25′10	
opposition	1991 Sep 12 06:00 1991 Dec 30 21:33 1992 Feb 29 00:37	0° Mp 14° Mp 37'45 9° Mp 40'51	1°22'25	•	1998 Feb 04 10:52 1998 Feb 10 09:56	1° <b>∺</b> 25'10	0077
opposition min. Earth dist.	1991 Sep 12 06:00 1991 Dec 30 21:33 1992 Feb 29 00:37 1992 Feb 29 02:46	0° m/ 14° m/37'45 9° m/40'51 9° m/40'09	1°22'25 4.41180 AU	conjunction	1998 Feb 04 10:52 1998 Feb 10 09:56 1998 Feb 23 08:51	1°¥25'10 4°¥31'56	
opposition min. Earth dist. direct	1991 Sep 12 06:00 1991 Dec 30 21:33 1992 Feb 29 00:37 1992 Feb 29 02:46 1992 Apr 30 19:39	0° m) 14° m) 37'45 9° m) 40'51 9° m) 40'09 4° m) 37'55		conjunction minimum elong	1998 Feb 04 10:52 1998 Feb 10 09:56 1998 Feb 23 08:51 1998 Feb 23 08:49	1°¥25'10 4°¥31'56 4°¥31'55	0°52'57
opposition min. Earth dist.	1991 Sep 12 06:00 1991 Dec 30 21:33 1992 Feb 29 00:37 1992 Feb 29 02:46	0° m/ 14° m/37'45 9° m/40'51 9° m/40'09		conjunction	1998 Feb 04 10:52 1998 Feb 10 09:56 1998 Feb 23 08:51	1°¥25'10 4°¥31'56 4°¥31'55 4°¥31'07	
opposition min. Earth dist. direct	1991 Sep 12 06:00 1991 Dec 30 21:33 1992 Feb 29 00:37 1992 Feb 29 02:46 1992 Apr 30 19:39	0° m) 14° m) 37'45 9° m) 40'51 9° m) 40'09 4° m) 37'55		conjunction minimum elong	1998 Feb 04 10:52 1998 Feb 10 09:56 1998 Feb 23 08:51 1998 Feb 23 08:49	1°¥25'10 4°¥31'56 4°¥31'55	0°52'57
opposition min. Earth dist. direct	1991 Sep 12 06:00 1991 Dec 30 21:33 1992 Feb 29 00:37 1992 Feb 29 02:46 1992 Apr 30 19:39	0° m) 14° m) 37'45 9° m) 40'51 9° m) 40'09 4° m) 37'55		conjunction minimum elong max. Earth dist.	1998 Feb 04 10:52 1998 Feb 10 09:56 1998 Feb 23 08:51 1998 Feb 23 08:49 1998 Feb 23 07:30	1°¥25'10 4°¥31'56 4°¥31'55 4°¥31'07	0°52'57
opposition min. Earth dist. direct evening set	1991 Sep 12 06:00 1991 Dec 30 21:33 1992 Feb 29 00:37 1992 Feb 29 02:46 1992 Apr 30 19:39 1992 Sep 04 15:06	0° m 14° m 37'45 9° m 40'51 9° m 40'09 4° m 37'55 22° m 16'07	4.41180 AU	conjunction minimum elong max. Earth dist. morning rise	1998 Feb 04 10:52 1998 Feb 10 09:56 1998 Feb 23 08:51 1998 Feb 23 08:49 1998 Feb 23 07:30 1998 Mar 08 10:00	1°\£25'10 4°\£31'56 4°\£31'55 4°\£31'07 7°\£40'08	0°52'57 5.99686 AU
opposition min. Earth dist. direct evening set conjunction	1991 Sep 12 06:00 1991 Dec 30 21:33 1992 Feb 29 00:37 1992 Feb 29 02:46 1992 Apr 30 19:39 1992 Sep 04 15:06	0° m 14° m 37'45 9° m 40'51 9° m 40'09 4° m 37'55 22° m 16'07 25° m 06'16	4.41180 AU 1°03'45	conjunction minimum elong max. Earth dist. morning rise retrograde	1998 Feb 04 10:52 1998 Feb 10 09:56 1998 Feb 23 08:51 1998 Feb 23 07:30 1998 Feb 23 07:30 1998 Mar 08 10:00 1998 Jul 18 01:48	1°\£25'10 4°\£31'56 4°\£31'55 4°\£31'07 7°\£40'08 28°\£03'35	0°52'57 5.99686 AU
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	1991 Sep 12 06:00 1991 Dec 30 21:33 1992 Feb 29 00:37 1992 Feb 29 02:46 1992 Apr 30 19:39 1992 Sep 04 15:06 1992 Sep 17 18:31 1992 Sep 17 18:30 1992 Sep 17 02:28	0° my 14° my 37'45 9° my 40'51 9° my 40'09 4° my 37'55 22° my 16'07 25° my 06'16 25° my 06'15	4.41180 AU 1°03'45 1°03'44	conjunction minimum elong max. Earth dist. morning rise retrograde opposition	1998 Feb 04 10:52 1998 Feb 10 09:56 1998 Feb 23 08:51 1998 Feb 23 08:49 1998 Feb 23 07:30 1998 Mar 08 10:00 1998 Jul 18 01:48 1998 Sep 16 03:02	1°\(\frac{1}{2}5'\)10  4°\(\frac{1}{3}1'\)56  4°\(\frac{1}{3}1'\)55  4°\(\frac{1}{3}1'\)07  7°\(\frac{1}{4}0'\)08  28°\(\frac{1}{3}0'\)35  23°\(\frac{1}{3}0'\)19	0°52'57 5.99686 AU -1°33'39
opposition min. Earth dist. direct evening set  conjunction minimum elong	1991 Sep 12 06:00 1991 Dec 30 21:33 1992 Feb 29 00:37 1992 Feb 29 02:46 1992 Apr 30 19:39 1992 Sep 04 15:06 1992 Sep 17 18:31 1992 Sep 17 18:30 1992 Sep 17 02:28 1992 Sep 30 18:55	0° my 14° my 37'45 9° my 40'51 9° my 40'09 4° my 37'55 22° my 16'07 25° my 06'16 25° my 06'15 24° my 57'35 27° my 54'58	4.41180 AU 1°03'45 1°03'44	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	1998 Feb 04 10:52 1998 Feb 10 09:56 1998 Feb 23 08:51 1998 Feb 23 08:49 1998 Feb 23 07:30 1998 Mar 08 10:00 1998 Jul 18 01:48 1998 Sep 16 03:02 1998 Sep 15 16:58 1998 Nov 13 13:02	1°\(\)25'\\10  4°\(\)3\\1'\56  4°\(\)3\\1'\55  4°\(\)3\\1'\57  7°\(\)4\\0'\08  28°\(\)6\\3'\\19  23°\(\)4\\06\\40  18°\(\)6\\40	0°52'57 5.99686 AU -1°33'39
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise	1991 Sep 12 06:00 1991 Dec 30 21:33 1992 Feb 29 00:37 1992 Feb 29 02:46 1992 Apr 30 19:39 1992 Sep 04 15:06 1992 Sep 17 18:31 1992 Sep 17 18:30 1992 Sep 17 02:28 1992 Sep 30 18:55 1992 Oct 10 13:26	0° ነው 14° ነው 37'45 9° ነው 40'51 9° ነው 40'09 4° ነው 37'55 22° ነው 16'07 25° ነው 06'16 25° ነው 06'15 24° ነው 57'35 27° ነው 54'58 0° Ω	4.41180 AU 1°03'45 1°03'44	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	1998 Feb 04 10:52 1998 Feb 10 09:56 1998 Feb 23 08:51 1998 Feb 23 08:49 1998 Feb 23 07:30 1998 Mar 08 10:00 1998 Jul 18 01:48 1998 Sep 16 03:02 1998 Sep 15 16:58 1998 Nov 13 13:02 1999 Feb 13 01:23	1°\(\)25'\\10  4°\(\)3\\1'\56  4°\(\)\3\\1'\55  4°\(\)\3\\1'\07  7°\(\)\40'\08  28°\(\)\03'\\3  23°\(\)\03'\\19  23°\(\)\06'\40  18°\(\)\09'\40  0°\(\)	0°52'57 5.99686 AU -1°33'39
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde	1991 Sep 12 06:00 1991 Dec 30 21:33 1992 Feb 29 00:37 1992 Feb 29 02:46 1992 Apr 30 19:39 1992 Sep 04 15:06 1992 Sep 17 18:31 1992 Sep 17 18:30 1992 Sep 17 02:28 1992 Sep 30 18:55 1992 Oct 10 13:26 1993 Jan 28 23:09	0° m 14° m 37'45 9° m 40'51 9° m 40'09 4° m 37'55 22° m 16'07 25° m 06'16 25° m 06'15 24° m 57'35 27° m 54'58 0° Ω 14° Ω 41'45	4.41180 AU 1°03'45 1°03'44 6.44150 AU	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	1998 Feb 04 10:52 1998 Feb 10 09:56 1998 Feb 23 08:51 1998 Feb 23 08:49 1998 Feb 23 07:30 1998 Mar 08 10:00 1998 Jul 18 01:48 1998 Sep 16 03:02 1998 Sep 15 16:58 1998 Nov 13 13:02	1°\(\)25'\\10  4°\(\)3\\1'\56  4°\(\)3\\1'\55  4°\(\)3\\1'\57  7°\(\)4\\0'\08  28°\(\)6\\3'\\19  23°\(\)4\\06\\40  18°\(\)6\\40	0°52'57 5.99686 AU -1°33'39
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition	1991 Sep 12 06:00 1991 Dec 30 21:33 1992 Feb 29 00:37 1992 Feb 29 02:46 1992 Apr 30 19:39 1992 Sep 04 15:06  1992 Sep 17 18:31 1992 Sep 17 18:30 1992 Sep 17 02:28 1992 Sep 30 18:55 1992 Oct 10 13:26 1993 Jan 28 23:09 1993 Mar 30 12:01	0° ነው 14° ነው 37'45 9° ነው 40'51 9° ነው 40'09 4° ነው 37'55 22° ነው 16'07 25° ነው 06'16 25° ነው 06'15 24° ነው 57'35 27° ነው 54'58 0° Ω 14° Ω 41'45 9° Ω 47'54	4.41180 AU 1°03'45 1°03'44 6.44150 AU	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	1998 Feb 04 10:52 1998 Feb 10 09:56 1998 Feb 23 08:51 1998 Feb 23 08:49 1998 Feb 23 07:30 1998 Mar 08 10:00 1998 Jul 18 01:48 1998 Sep 16 03:02 1998 Sep 15 16:58 1998 Nov 13 13:02 1999 Feb 13 01:23 1999 Mar 18 23:45	1°\(\)25'\\10  4°\(\)\3\\1'\56  4°\(\)\3\\1'\55  4°\(\)\3\\1'\07  7°\(\)\4\0'\08  28°\(\)\03'\35  23°\(\)\03'\19  23°\(\)\06'\40  18°\(\)\09'\40  0°\(\)\7°\\752'\08	0°52'57 5.99686 AU -1°33'39 3.96289 AU
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde	1991 Sep 12 06:00 1991 Dec 30 21:33 1992 Feb 29 00:37 1992 Feb 29 02:46 1992 Apr 30 19:39 1992 Sep 04 15:06 1992 Sep 17 18:31 1992 Sep 17 18:30 1992 Sep 17 02:28 1992 Sep 30 18:55 1992 Oct 10 13:26 1993 Jan 28 23:09	0° ነው 14° ነው 37'45 9° ነው 40'51 9° ነው 40'09 4° ነው 37'55 22° ነው 16'07 25° ነው 06'16 25° ነው 06'15 24° ነው 57'35 27° ነው 54'58 0° Ω 14° Ω 41'45 9° Ω 47'54	4.41180 AU 1°03'45 1°03'44 6.44150 AU	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	1998 Feb 04 10:52 1998 Feb 10 09:56 1998 Feb 23 08:51 1998 Feb 23 08:49 1998 Feb 23 07:30 1998 Mar 08 10:00 1998 Jul 18 01:48 1998 Sep 16 03:02 1998 Sep 15 16:58 1998 Nov 13 13:02 1999 Feb 13 01:23	1°\(\)25'\\10  4°\(\)3\\1'\56  4°\(\)\3\\1'\55  4°\(\)\3\\1'\07  7°\(\)\40'\08  28°\(\)\03'\\3  23°\(\)\03'\\19  23°\(\)\06'\40  18°\(\)\09'\40  0°\(\)	0°52'57 5.99686 AU -1°33'39 3.96289 AU -1°05'09

may Earth dist	1999 Apr 02 13:03	11° <b>Y</b> 23'09	5.95024 AU	min Earth diat	2005 Ame 04 12:29	120 0 51107	1 15665 ATT
max. Earth dist.	•		5.95024 AU	min. Earth dist.	2005 Apr 04 13:38		4.45665 AU
morning rise	1999 Apr 14 15:43	14° <b>Y</b> 18′29		direct	2005 Jun 05 07:21	8° <b>£</b> 55'50	
	1999 Jun 28 09:29	0° <b>8</b>		evening set	2005 Oct 09 16:43	26° <b>£</b> 26'00	
retrograde	1999 Aug 25 02:38	4° <b>8</b> 59'12		max. Earth dist.	2005 Oct 20 20:25	28° <b>≏</b> 51'10	6.44285 AU
opposition	1999 Oct 23 19:04	29° <b>Y</b> 55'30					
min. Earth dist.	1999 Oct 22 14:07	0° <b>8</b> 05'19	3.96287 AU	conjunction	2005 Oct 22 12:54	29° <b>≏</b> 13'12	1°02'40
	1999 Oct 23 05:48	30° <b>ŖƳ</b>		minimum elong	2005 Oct 22 12:55	29° <b>₽</b> 13'12	1°02'39
direct	1999 Dec 20 14:48	25° <b>Y</b> 00′35			2005 Oct 26 02:52	$0^{\circ}$ M.	
	2000 Feb 14 21:40	$B_{\circ O}$		morning rise	2005 Nov 04 06:20	1°M59'12	
evening set	2000 Apr 24 13:59	14° <b>8</b> 38'47		•	2006 Jan 12 06:04	15° <b>™</b>	
8	2000 Apr 26 01:49	15° <b>8</b>		retrograde	2006 Mar 04 18:02	18° <b>M</b> ⋅51'42	
	2000 ripi 20 01:17	13 🔾		retrograde	2006 Apr 26 15:57	15°RM	
agniumation	2000 May 09 04:09	17° <b>8</b> 52'37	0051144	amnagition	•	13°M59'40	1°20'12
conjunction	2000 May 08 04:08	_		opposition	2006 May 04 14:36		
minimum elong	2000 May 08 04:11	17° <b>8</b> 52'38		min. Earth dist.	2006 May 05 23:44	13°M49'06	4.41270 AU
max. Earth dist.	2000 May 10 07:40	18° <b>8</b> 23'17	5.99610 AU	direct	2006 Jul 06 07:19	8°M58'43	
morning rise	2000 May 21 21:05	21° <b>8</b> 07'40			2006 Sep 11 08:21	15° <b>M</b>	
	2000 Jun 30 07:35	$\Pi$ $\circ 0$		evening set	2006 Nov 09 06:39	26° <b>™</b> 41'27	
retrograde	2000 Sep 29 12:52	11° <b>Ⅱ</b> 14′05		max. Earth dist.	2006 Nov 19 20:53	29°M02'14	6.36473 AU
min. Earth dist.	2000 Nov 26 15:07	6° <b>Ⅲ</b> 21'02	4.04935 AU				
opposition	2000 Nov 28 02:12	6° <b>Ⅱ</b> 09'03	-0°54'56	conjunction	2006 Nov 21 23:15	29°M30'15	0°43'25
direct	2001 Jan 25 08:38	1° <b>I</b> I1'16		minimum elong	2006 Nov 21 23:17	29°M30'16	0°43'25
evening set	2001 May 31 18:20	20° <b>Ⅲ</b> 20'38		mmmum erong	2006 Nov 24 04:43	0° <b>⊼</b> ¹	0 .5 20
evening set	2001 May 31 10.20	20 112030		morning rise	2006 Nov 24 04:43 2006 Dec 04 14:10	2° <b>×</b> <sup>7</sup> 18'26	
	2001 1 14 12 20	220 <b>T</b> 20150	0010106	morning rise			
conjunction	2001 Jun 14 12:38	23° <b>II</b> 30'50		retrograde	2007 Apr 06 01:22	19° 🖈 46'44	0044150
minimum elong	2001 Jun 14 12:39	23° <b>Ⅱ</b> 30'51		opposition	2007 Jun 05 23:13	14° <b>≯</b> 54'38	0°41'52
max. Earth dist.	2001 Jun 16 18:10	24° <b>Ⅱ</b> 01'42	6.11521 AU	min. Earth dist.	2007 Jun 07 12:16	14° <b>≯</b> 42'50	4.30438 AU
morning rise	2001 Jun 28 07:42	26° <b>Ⅱ</b> 41'12		direct	2007 Aug 07 02:05	9° <b>∡</b> ¹55'48	
	2001 Jul 13 00:03	$0$ $\circ$ $\odot$		evening set	2007 Dec 10 13:49	28° <b>₰</b> 06'49	
retrograde	2001 Nov 02 15:35	15° <b>©</b> 41'30			2007 Dec 18 20:11	0°ರ	
asc. node	2001 Dec 30 23:32	10°5948'17		max. Earth dist.	2007 Dec 21 07:01	0°る33'42	6.23484 AU
min. Earth dist.	2001 Dec 31 01:04	10°547'46	4.18746 AU				
opposition	2002 Jan 01 05:53	10°538'01	0°00'11	conjunction	2007 Dec 23 05:56	1° <b>る</b> 00'35	0°10'59
direct	2002 Mar 01 15:15	5°937'24	0 0011	minimum elong	2007 Dec 23 05:56	1°る00'35	0°10'58
evening set	2002 Jul 06 09:10	24°907'50		behind sun begin	2007 Dec 22 23:52	0°る57'08	0 10 50
evening set	2002 Jul 00 09.10	24 907 30				1°る04'03	
	2002 1 1 20 01 10	270510144	0010140	behind sun end	2007 Dec 23 12:01		
conjunction	2002 Jul 20 01:19	27°510'44	0°18'48	morning rise	2008 Jan 04 21:40	3° <b>る</b> 54'25	
minimum elong	2002 Jul 20 01:17	27° <b>©</b> 10'44	0°18'48	desc. node	2008 Apr 17 16:02	21° <b>る</b> 37'34	
max. Earth dist.	2002 Jul 21 11:20	27° <b>5</b> 29'44	6.26068 AU	retrograde	2008 May 09 12:11	22° <b>る</b> 22'06	
	2002 Aug 01 17:20	$0$ $\circ$ $\Omega$		opposition	2008 Jul 09 07:39	17° <b>る</b> 28'18	-0°11'40
morning rise	2002 Aug 02 16:39	0° <b>Ω</b> 12'54		min. Earth dist.	2008 Jul 10 10:59	17° <b>る</b> 19'30	4.16102 AU
	2002 Oct 20 08:09	15° <b>Ω</b>		direct	2008 Sep 08 04:16	12° <b>る</b> 32'01	
retrograde	2002 Dec 04 12:22	18° <b>Ω</b> 06'16			2009 Jan 05 15:41	0° <b>≈</b>	
· ·	2003 Jan 18 18:29	15°R <b>Ω</b>		evening set	2009 Jan 11 11:11	1° <b>≈</b> 21'27	
opposition	2003 Feb 02 09:12	13° <b>Ω</b> 06'06	0°51'42	max. Earth dist.	2009 Jan 23 02:42		6.09056 AU
min. Earth dist.	2003 Feb 01 19:11	13° <b>Ω</b> 10'46	4.32714 AU	max. Dartif dist.	2007 Juli 25 02.12	170.0015	0.07030710
direct	2003 Apr 04 03:04	8° <b>Ω</b> 03'39	4.52/14/10	conjunction	2009 Jan 24 05:44	4°≈22'14	0026120
direct	-			3			
	2003 Jun 14 19:56	15° <b>Ω</b>		minimum elong	2009 Jan 24 05:43	4°≈22'13	0-26-27
evening set	2003 Aug 09 00:11	25° <b>Ω</b> 59'49		morning rise	2009 Feb 06 01:21	7°≈23'52	
		_			2009 Mar 11 15:11	15° <b>≈</b>	
conjunction	2003 Aug 22 10:08	28° <b>Ω</b> 54'56		retrograde	2009 Jun 15 07:50	27° <b>≈</b> 01'03	
minimum elong	2003 Aug 22 10:06	28° <b>Ω</b> 54'55	0°49'13	opposition	2009 Aug 14 17:53	22° <b>≈</b> 04'09	-1°04'49
max. Earth dist.	2003 Aug 22 17:36	28° <b>Ω</b> 59'00	6.38381 AU	min. Earth dist.	2009 Aug 15 03:13	22° <b>≈</b> 01'06	4.02783 AU
	2003 Aug 27 09:26	0° <b>m</b>		direct	2009 Oct 13 04:34	17° <b>≈</b> 09'59	
morning rise	2003 Sep 04 17:34	1° Mp 48'43			2010 Jan 18 02:10	0° <b>∀</b>	
retrograde	2004 Jan 03 23:57	18° <b>m</b> 54'13		evening set	2010 Feb 15 10:49	6° <b>ℋ</b> 36'06	
opposition	2004 Mar 04 05:05	13° m) 57'48	1°25'38	8			
min. Earth dist.	2004 Mar 04 09:17	13° My 56'26	4.42565 AU	conjunction	2010 Feb 28 10:44	9° <b>)</b> 44′05	-0°56'02
direct	2004 May 05 03:07	8° Mp 54'53	1. 12303 110	minimum elong	2010 Feb 28 10:42	9° <b>)</b> (44'04	0°56'01
	-			Č		9° <b>X</b> 44'04	
evening set	2004 Sep 08 21:37	26° <b>m</b> 29'46		max. Earth dist.	2010 Feb 28 13:56		5.98065 AU
	20046	200= :::	1004:-	morning rise	2010 Mar 13 13:11	12° <b>)</b> 53'34	
conjunction	2004 Sep 21 23:48	29° <b>m</b> 19'08	1°04'47		2010 Jun 06 06:28	0° <b>Υ</b>	
minimum elong	2004 Sep 21 23:47	29° <b>m</b> 19'08	1°04'48	retrograde	2010 Jul 23 12:03	3° <b>Y</b> 24′07	
max. Earth dist.	2004 Sep 21 02:34	29° <b>m</b> 07'39	6.44986 AU		2010 Sep 09 04:49	30° <b>₹</b> ₩	
	2004 Sep 25 03:23	0∘ <b>⊽</b>		opposition	2010 Sep 21 11:36	28° <b>∺</b> 23′19	-1°35'50
morning rise	2004 Oct 04 23:18	2° <b>≏</b> 07'07		min. Earth dist.	2010 Sep 20 21:19	28° <b>¥</b> 28′05	3.95393 AU
retrograde	2005 Feb 02 02:26	18° <b>≏</b> 51'45		direct	2010 Nov 18 16:54	23° <b>)</b> 29'41	
opposition	2005 Apr 03 15:30	13° <b>≏</b> 58'15	1°35'36		2011 Jan 22 17:11	$0^{\circ}\mathbf{\Upsilon}$	
* *	•						

evening set	2011 Mar 24 07:07	13° <b>Y</b> 14′25		minimum elong	2016 Sep 26 06:59	3° <b>£</b> 37'06	1°05'33
				morning rise	2016 Oct 09 05:20	6° <b>£</b> 24'32	
conjunction	2011 Apr 06 14:40	16° <b>Y</b> 27'21		retrograde	2017 Feb 06 06:52	23° <b>£</b> 08'25	1024155
minimum elong	2011 Apr 06 14:41	16° <b>Y</b> 27'21	1°04'43	opposition	2017 Apr 07 21:39		1°34'55
max. Earth dist.	2011 Apr 08 01:39	16° <b>Y</b> 48'30	5.94919 AU	min. Earth dist.	2017 Apr 08 21:23	18° <b>Ω</b> 07'35	4.45490 AU
morning rise	2011 Apr 20 01:29	19° <b>Y</b> 41'57		direct	2017 Jun 09 14:03	13° <b>£</b> 12'58	
	2011 Jun 04 13:56	0° <b>8</b>			2017 Oct 10 13:20	0°M	
retrograde	2011 Aug 30 09:17	10° <b>8</b> 21'20	2.06075.433	evening set	2017 Oct 13 22:46	0°M43'54	6 10 50 6 1 XX
min. Earth dist.	2011 Oct 27 18:41	_	3.96975 AU	max. Earth dist.	2017 Oct 24 22:20	3°ML07'11	6.43536 AU
opposition	2011 Oct 29 01:42	5° <b>8</b> 17'10	-1°28'51		2017.0 . 26 10 00	2011 21106	1000156
direct	2011 Dec 25 22:08	0° <b>8</b> 21'52		conjunction	2017 Oct 26 18:09	3°M31'06	1°00'56
	2012 Apr 08 13:26	15° <b>8</b>		minimum elong	2017 Oct 26 18:11	3°M31'07	1°00'55
evening set	2012 Apr 29 22:12	19° <b>8</b> 57'04		morning rise	2017 Nov 08 11:12	6°M17'14	
		4.			2017 Dec 21 01:33	15° <b>M</b> ₊	
conjunction	2012 May 13 13:23	23° <b>8</b> 10'41		retrograde	2018 Mar 09 04:45	23°M13'21	
minimum elong	2012 May 13 13:25	23° <b>8</b> 10'42		opposition	2018 May 09 00:39	18°M21'24	1°16'04
max. Earth dist.	2012 May 15 20:29	23° <b>8</b> 43'20	6.01014 AU	min. Earth dist.	2018 May 10 11:53	18°MJ0'10	4.39983 AU
morning rise	2012 May 27 06:49	26° <b>8</b> 25'18			2018 Jun 06 23:14	15°RM	
	2012 Jun 11 17:22	$\Pi$ $^{\circ}0$		direct	2018 Jul 10 17:02	13°M20'40	
retrograde	2012 Oct 04 13:18	16° <b>Ⅱ</b> 22'53			2018 Aug 13 10:38	15° <b>M</b> ₊	
min. Earth dist.	2012 Dec 01 14:50	11° <b>Ⅱ</b> 29'47	4.06853 AU		2018 Nov 08 12:39	0° <b>∡</b> ¹	
opposition	2012 Dec 03 01:45	11° <b>Ⅱ</b> 17'52	-0°47'36	evening set	2018 Nov 13 14:03	1° <b>∡¹</b> 06'53	
direct	2013 Jan 30 11:37	6° <b>Ⅱ</b> 19'38		max. Earth dist.	2018 Nov 24 03:39	3° <b>҂</b> 27'54	6.34749 AU
evening set	2013 Jun 05 22:01	25° <b>Ⅲ</b> 22'51					
				conjunction	2018 Nov 26 06:33	3° <b>渘</b> ¹56'19	0°39'30
conjunction	2013 Jun 19 16:11	28° <b>II</b> 32'01	-0°13'42	minimum elong	2018 Nov 26 06:35	3° <b>҂</b> 756′20	0°39'30
minimum elong	2013 Jun 19 16:12	28° <b>Ⅲ</b> 32′02	0°13'42	morning rise	2018 Dec 08 21:21	6° <b>∡</b> ¹45′09	
behind sun begin	2013 Jun 19 11:55	28° <b>Ⅲ</b> 29'35		retrograde	2019 Apr 10 17:01	24° <b>₹</b> ¹21'01	
behind sun end	2013 Jun 19 20:29	28° <b>Ⅱ</b> 34'29		opposition	2019 Jun 10 15:28	19° <b>∡</b> ¹28'46	0°34'59
max. Earth dist.	2013 Jun 21 19:20	29° <b>Ⅱ</b> 01'22	6.13746 AU	min. Earth dist.	2019 Jun 12 03:04	19° <b>∡</b> 17'25	4.28391 AU
	2013 Jun 26 01:40	0ංම		direct	2019 Aug 11 13:37	14° <b>₹</b> ³30′18	
morning rise	2013 Jul 03 11:11	1°941'17			2019 Dec 02 18:20	0°⋜	
retrograde	2013 Nov 07 05:03	20°530'39		evening set	2019 Dec 15 02:09	2°る46'57	
asc. node	2013 Nov 09 05:45	20°\$30'14		max. Earth dist.	2019 Dec 25 21:56	5° <b>ರ</b> 16'03	6.21293 AU
opposition	2014 Jan 05 21:11	15°527'29	0°08'06				
min. Earth dist.	2014 Jan 04 17:38	15° <b>©</b> 36'49	4.21043 AU	conjunction	2019 Dec 27 18:25	5° <b>⋜</b> 41'41	0°05'46
direct	2014 Mar 06 10:42	10°526'31	210.0110	minimum elong	2019 Dec 27 18:26	5° <b>る</b> 41'41	0°05'46
evening set	2014 Jul 11 05:13	28°950'41		behind sun begin	2019 Dec 27 10:20 2019 Dec 27 10:47	5° <b>る</b> 37'18	0 03 10
evening set	2014 Jul 16 10:31	0°Ω		behind sun end	2019 Dec 28 02:04	5° <b>ප</b> 46'04	
	2014 341 10 10.51	<b>○ 0</b> C		morning rise	2020 Jan 09 10:31	8° <b>ප</b> 36'36	
conjunction	2014 Jul 24 20:44	1° <b>Ω</b> 52'20	0°23'46	desc. node	2020 Feb 26 02:46	18° <b>る</b> 49'05	
minimum elong	2014 Jul 24 20:42	1° <b>Ω</b> 52'19	0°23'46	retrograde	2020 May 14 14:32	18 <b>3</b> 4905 27° <b>る</b> 14'25	
max. Earth dist.	2014 Jul 26 03:40	2° <b>Ω</b> 09'32	6.28258 AU	opposition	2020 Jul 14 07:58	27 ප1423 22°ප20'18	0°10'40
		4° <b>Ω</b> 53'07	0.28238 AU	min. Earth dist.	2020 Jul 14 07:38 2020 Jul 15 09:57		4.13933 AU
morning rise	2014 Aug 07 10:57					22 311 33 17° <b>る</b> 24'24	4.13933 AU
. 1	2014 Sep 25 18:26	15° <b>Ω</b>		direct	2020 Sep 13 00:41		
retrograde	2014 Dec 08 20:41	22° <b>Ω</b> 37'37	0055142		2020 Dec 19 13:07	0° <b>≈</b>	
opposition	2015 Feb 06 18:20	17° <b>Ω</b> 38'00	0°57'43	evening set	2021 Jan 16 06:30	6°≈19'52	6 07126 ATT
min. Earth dist.	2015 Feb 06 07:06	17° <b>Ω</b> 41'44	4.34620 AU	max. Earth dist.	2021 Jan 28 02:16	9° <b>≈</b> 07'52	6.07126 AU
T'	2015 Feb 27 16:10	15°R <b>Ω</b>			2021 1 20 21 12	000111-	0021127
direct	2015 Apr 08 16:57	12° <b>Ω</b> 35'26		conjunction	2021 Jan 29 01:40	9°≈21'45	
	2015 May 19 04:29	15° <b>Ω</b>		minimum elong	2021 Jan 29 01:38	9°≈21'44	0°31'27
_	2015 Aug 11 11:11	0° <b>m</b> )		morning rise	2021 Feb 10 22:08	12° <b>≈</b> 24'36	
evening set	2015 Aug 13 13:17	0° Mp 27'01			2021 Feb 21 23:41	15° <b>≈</b>	
					2021 May 13 22:36	0° <b>∺</b>	
conjunction	2015 Aug 26 22:02	3° Mg 21'04	0°52'24	retrograde	2021 Jun 20 15:05	2° <b>)</b> 11′04	
minimum elong	2015 Aug 26 22:00	3°m/21'03	0°52'23		2021 Jul 28 12:42	30° <b>R</b> ≈	
max. Earth dist.	2015 Aug 27 00:08	3° Mp 22'12	6.39850 AU	opposition	2021 Aug 20 00:29	27° <b>≈</b> 13'41	-1°11'02
morning rise	2015 Sep 09 04:25	6° Mp 13′48		min. Earth dist.	2021 Aug 20 05:26		4.01320 AU
retrograde	2016 Jan 08 04:40	23° <b>m</b> ) 14'17		direct	2021 Oct 18 05:30	22° <b>≈</b> 19'46	
opposition	2016 Mar 08 10:57	18° <b>m</b> ) 18'17	1°28'30		2021 Dec 29 04:10	0° <b>∀</b>	
min. Earth dist.	2016 Mar 08 18:12	18° <b>m</b> 15'55	4.43535 AU	evening set	2022 Feb 20 13:21	11° <b>)</b> 49′40	
direct	2016 May 09 12:14	13° <b>m</b> 15'19					
	2016 Sep 09 11:18	0∘ <b>亚</b>		conjunction	2022 Mar 05 14:06	14° <b>¥</b> 58′27	-0°58'44
evening set	2016 Sep 13 05:38	0° <b>ჲ</b> 48'16		minimum elong	2022 Mar 05 14:05	14° <b>¥</b> 58′25	0°58'44
max. Earth dist.	2016 Sep 25 07:32	3° <b>₽</b> 24'25	6.45387 AU	max. Earth dist.	2022 Mar 05 22:11	15° <b>∺</b> 03′20	5.97207 AU
				morning rise	2022 Mar 18 17:37	18° <b>₩</b> 08'47	
conjunction	2016 Sep 26 07:00	3° <b>₽</b> 37'06	1°05'33		2022 May 10 23:22	$0^{\circ}\mathbf{\Upsilon}$	

min. Earth dist.

2028 Mar 13 01:46

22° m/31'58 4.44032 AU

evening set

2034 Feb 25 14:26

16°**¥**59'58

conjunction	2034 Mar 10 16:18	20° <b>₩</b> 09'27	-1°00'57	max. Earth dist.	2039 Sep 04 12:51	12° Mp 01'52	6.41659 AU
minimum elong	2034 Mar 10 16:16	20° <b>米</b> 09′26	1°00'58	morning rise	2039 Sep 17 22:10	14° m 55'49	
max. Earth dist.	2034 Mar 11 06:02	20° <b>)</b> 17'46	5.96639 AU		2039 Dec 12 22:05	0∘ <b>⊽</b>	
morning rise	2034 Mar 23 20:47	23° <b>¥</b> 20′30		retrograde	2040 Jan 16 13:18	1° <b>£</b> 50′27	
	2034 Apr 21 09:40	$0^{\circ}$ Y			2040 Feb 20 05:35	30°R, Mp	
retrograde	2034 Aug 03 03:42	13° <b>Y</b> 57′03		opposition	2040 Mar 16 21:58	26° <b>m</b> 55'24	1°32'49
min. Earth dist.	2034 Oct 01 05:31	9° <b>℃</b> 01'40	3.95305 AU	min. Earth dist.	2040 Mar 17 09:43	26° m 51'36	4.44399 AU
opposition	2034 Oct 02 00:58	8° <b>℃</b> 55'09	-1°37'52	direct	2040 May 18 03:57	21° m 52'39	
direct	2034 Nov 29 02:24	4° <b>Υ</b> 01'15 23° <b>Υ</b> 44'22			2040 Aug 05 22:03	0° <b>ჲ</b> 9° <b>ჲ</b> 24'52	
evening set	2035 Apr 03 17:32	23   44 22		evening set	2040 Sep 21 20:51	9 == 24 32	
conjunction	2035 Apr 17 03:13	26° <b>Ƴ</b> 57'43	-1°02'26	conjunction	2040 Oct 04 20:24	12° <b>≙</b> 13'03	1°06'01
minimum elong	2035 Apr 17 03:14	26° <b>Ƴ</b> 57'44	1°02'25	minimum elong	2040 Oct 04 20:24	12° <b>≙</b> 13'03	1°06'01
max. Earth dist.	2035 Apr 18 21:18	27° <b>Y</b> °23′02	5.96142 AU	max. Earth dist.	2040 Oct 03 14:50	11° <b>≏</b> 57'03	6.45253 AU
	2035 Apr 29 18:57	0° <b>8</b>		morning rise	2040 Oct 17 17:04	14° <b>£</b> 59'54	
morning rise	2035 Apr 30 16:09	0° <b>8</b> 12'39			2041 Jan 11 19:33	0°M	
	2035 Jul 09 10:50	15° <b>8</b>		retrograde	2041 Feb 14 20:22	1°M45'34	
retrograde	2035 Sep 09 14:14	20° <b>8</b> 43'05	3.99381 AU	:	2041 Mar 21 00:01	30° <b>R</b>	1922105
min. Earth dist. opposition	2035 Nov 06 20:01 2035 Nov 08 05:43	15° <b>8</b> 38'25		opposition min. Earth dist.	2041 Apr 16 12:21 2041 Apr 17 15:39	26° <b>£</b> 32'36 26° <b>£</b> 44'11	1°32'05 4.44426 AU
opposition	2035 Nov 12 22:58	15°R <b>8</b>	-1 2004	direct	2041 Apr 17 13.39 2041 Jun 18 06:14	20 <del>= 44</del> 11 21° <b>£</b> 51'11	4.44420 AU
direct	2036 Jan 05 03:59	10° <b>8</b> 42'20		direct	2041 Sep 06 00:12	0°M	
direct	2036 Feb 26 06:47	15°8		evening set	2041 Oct 22 12:14	9°M25'27	
	2036 May 09 14:52	0°II		max. Earth dist.	2041 Nov 02 08:11	11°M47'32	6.41639 AU
evening set	2036 May 10 06:07	0°Ⅲ08'54					
				conjunction	2041 Nov 04 06:33	12°ML12'58	0°56'27
conjunction	2036 May 23 22:33	3° <b>Ⅱ</b> 21'33	-0°39'35	minimum elong	2041 Nov 04 06:35	12°M12'59	0°56'27
minimum elong	2036 May 23 22:36	3° <b>Ⅱ</b> 21'34	0°39'34	morning rise	2041 Nov 16 22:42	14°M59'32	
max. Earth dist.	2036 May 26 05:38	3° <b>Ⅱ</b> 53'54	6.04347 AU		2041 Nov 16 23:33	15°ML	
morning rise	2036 Jun 06 16:59	6° <b>Ⅱ</b> 34'59			2042 Feb 08 23:53	0° <b>∡</b>	
retrograde	2036 Oct 14 01:38	26° <b>Ⅱ</b> 14'08		retrograde	2042 Mar 18 02:47	2° <b>≯</b> 04'13	
min. Earth dist.	2036 Dec 11 05:38	21° <b>II</b> 20'39	4.10717 AU	•,•	2042 Apr 24 12:41	30°RM	1007120
opposition	2036 Dec 12 14:42	21° <b>Ⅱ</b> 09'23 16° <b>Ⅱ</b> 10'17	-0°32′37	opposition min. Earth dist.	2042 May 17 23:55	27°M12'21	1°06'30
direct	2037 Feb 09 07:42 2037 May 24 02:13	16°Щ10'17		direct	2042 May 19 11:16 2042 Jul 19 12:48	27°M01'05 22°M12'17	4.37386 AU
evening set	2037 Jun 15 19:41	5° <b>©</b> 02'18		direct	2042 Oct 04 09:59	0°×7	
evening sec	2037 3411 13 17.11	3 302 10		evening set	2042 Nov 22 06:56	10° <b>х</b> 104′59	
conjunction	2037 Jun 29 13:43	8° <b>©</b> 09'35	-0°03'06	max. Earth dist.	2042 Dec 02 22:10	12° <b>∡</b> 27'59	6.31674 AU
minimum elong	2037 Jun 29 13:44	8°909'35	0°03'06				
behind sun begin	2037 Jun 29 05:23	8° <b>©</b> 04'52		conjunction	2042 Dec 04 23:05	12° <b>₹</b> ′55'30	0°30'59
behind sun end	2037 Jun 29 22:04	8° <b>5</b> 014'18		minimum elong	2042 Dec 04 23:07	12° <b>≯</b> 55'30	0°30'59
max. Earth dist.	2037 Jul 01 12:36	8° <b>©</b> 36'13	6.17818 AU	morning rise	2042 Dec 17 13:49	15° <b>∡</b> ¹45'35	
morning rise	2037 Jul 13 07:51	11° <b>©</b> 16'38			2043 Mar 01 17:06	0°₹	
asc. node	2037 Jul 31 08:05	15°5516'06		retrograde	2043 Apr 20 04:02	3° <b>る</b> 35'24	
retrograde	2037 Nov 16 02:17	29°547'02	0000107		2043 Jun 09 21:42	30°R. <b>₹</b>	0000100
opposition	2038 Jan 14 19:58	24°5544'48	0°23'07	opposition	2043 Jun 20 02:36 2043 Jun 21 12:11	28° <b>₹</b> 42'47 28° <b>₹</b> 32'04	0°20'32
min. Earth dist. direct	2038 Jan 13 20:31 2038 Mar 15 17:52	24°©52'41 19°©43'17	4.24936 AU	min. Earth dist. direct	2043 Jun 21 12:11 2043 Aug 20 18:35	23° <b>x</b> '32'04	4.25019 AU
direct	2038 Jun 12 15:26	0°Ω		direct	2043 Oct 26 11:31	0°る	
evening set	2038 Jul 20 14:14	7° <b>Ω</b> 58'02		desc. node	2043 Nov 16 20:02	ა ජ 4° <b>ප</b> 00'16	
evening see	2030 vai 20 1	, 000002		evening set	2043 Dec 24 03:03	12°る09'56	
conjunction	2038 Aug 03 04:07	10° <b>Ω</b> 57'35	0°32'56	max. Earth dist.	2044 Jan 04 03:42	14° <b>る</b> 43'01	6.17914 AU
minimum elong	2038 Aug 03 04:05	10° <b>Ω</b> 57'34	0°32'55				
max. Earth dist.	2038 Aug 04 02:20	11° <b>Ω</b> 09'51	6.31668 AU	conjunction	2044 Jan 05 19:38	15° <b>ට</b> 06'12	-0°04'49
morning rise	2038 Aug 16 16:29	13° <b>Q</b> 56′08		minimum elong	2044 Jan 05 19:38	15° <b>පි</b> 06'12	0°04'49
	2038 Aug 21 13:36	15° <b>Ω</b>		behind sun begin	2044 Jan 05 11:50	15° <b>ට</b> 01'42	
	2038 Nov 16 21:21	0° <b>m</b> )		behind sun end	2044 Jan 06 03:26	15° <b>⋜</b> 10'42	
retrograde	2038 Dec 17 08:40	1° Mp 27'11		morning rise	2044 Jan 18 12:36	18° <b>る</b> 02'53	
•.•	2039 Jan 16 14:55	30°R€	1000100		2044 Mar 15 04:27	0° <b>≈</b>	
opposition	2039 Feb 15 08:02	26° <b>Ω</b> 28'39	1°08'28	retrograde	2044 May 24 14:03	6°≈57'12	0025101
min. Earth dist.	2039 Feb 15 02:27	26° <b>Ω</b> 30'30	4.37328 AU	opposition	2044 Jul 24 06:55	2°≈02'16	
direct	2039 Apr 17 14:51	21° <b>Ω</b> 25'54		min. Earth dist.	2044 Jul 25 03:24	1°≈55'38	4.10799 AU
evening set	2039 Jul 08 00:24 2039 Aug 22 11:15	0° <b>m)</b> 9° <b>m)</b> 12'09		direct	2044 Aug 09 12:42 2044 Sep 22 14:53	30°Rる 27°る06'57	
evening set	2037 Aug 22 11.13	9 HV 12 U9		uncei	2044 Sep 22 14:33 2044 Nov 04 17:33	2/° <b>⊘</b> 063/	
conjunction	2039 Sep 04 18:04	12° m/04'41	0°57'44		2045 Jan 20 19:29	0 <b>~</b> 15° <b>≈</b>	
minimum elong	2039 Sep 04 18:02	12° Mp 04'40	0°57'44	evening set	2045 Jan 25 18:23	16°≈10'09	
	r						

minimum elong behind sun begin	2056 Jan 10 08:17 2056 Jan 10 01:47	19° <b>ප්</b> 47'58 19° <b>ප්</b> 44'12	0°10'01	max. Earth dist. morning rise	2061 Jul 11 02:57 2061 Jul 23 01:22	18°\$04'32 20°\$45'28	6.21497 AU
behind sun end	2056 Jan 10 14:47	19° <b>る</b> 51'44			2061 Sep 04 21:41	$0^{\circ}\Omega$	
morning rise	2056 Jan 23 01:36	22° <b>る</b> 45'40		retrograde	2061 Nov 24 22:06	8° <b>Ω</b> 58'40	
	2056 Feb 24 10:59	0° <b>≈</b>		opposition	2062 Jan 23 16:51	3° <b>Ω</b> 57'24	0°37'11
retrograde	2056 May 29 15:44	11° <b>≈</b> 49′21		min. Earth dist.	2062 Jan 22 21:11	4° <b>Ω</b> 03'59	4.28558 AU
opposition	2056 Jul 29 06:47	6° <b>≈</b> 54'00	-0°42'28		2062 Feb 26 23:35	30° <b>₹ॐ</b>	
min. Earth dist.	2056 Jul 30 01:24	6° <b>≈</b> 47'59	4.08938 AU	direct	2062 Mar 25 00:12	28° <b>©</b> 55'28	
direct	2056 Sep 27 09:48	1° <b>≈</b> 58'59			2062 Apr 20 08:57	$0^{\circ}\Omega$	
	2057 Jan 04 01:25	15° <b>≈</b>			2062 Jul 20 12:46	15° <b>Ω</b>	
evening set	2057 Jan 30 13:43	21°≈07'25		evening set	2062 Jul 29 21:03	17° <b>Ω</b> 01'19	
conjunction	2057 Feb 12 10:36	24°≈11'55		conjunction	2062 Aug 12 09:06	19° <b>Ω</b> 58'46	0°41'07
minimum elong max. Earth dist.	2057 Feb 12 10:34 2057 Feb 11 22:06	24°≈11'54 24°≈04'26	0°44'38 6.02881 AU	minimum elong max. Earth dist.	2062 Aug 12 09:04	19° <b>Ω</b> 58'45 20° <b>Ω</b> 07'09	0°41'07 6.34957 AU
morning rise	2057 Feb 11 22:00 2057 Feb 25 09:37	24 ≈04 20 27°≈17'43	0.02881 AU	morning rise	2062 Aug 13 00:24 2062 Aug 25 19:22	20° <b>Ω</b> 55'03	0.34937 AU
morning risc	2057 Mar 08 20:52	2/ <b>∞</b> 1/43		morning risc	2062 Sep 28 16:17	0° <b>m</b> )	
retrograde	2057 Jul 06 05:36	17° <b>¥</b> 25'41		retrograde	2062 Dec 25 18:29	10° <b>m</b> ) 13'09	
opposition	2057 Sep 04 11:29	12° <b>H</b> 26'39	-1°25'53	opposition	2063 Feb 23 20:35	5° m) 15'35	1°17'23
min. Earth dist.	2057 Sep 04 07:32		3.98269 AU	min. Earth dist.	2063 Feb 23 19:24	5° m) 15'58	4.40071 AU
direct	2057 Nov 02 04:27	7° <b>)</b> 32'59	3.90209110	direct	2063 Apr 26 11:21	0° m/ 12'40	
evening set	2058 Mar 07 13:51	27° <b>¥</b> 10'35		evening set	2063 Aug 31 06:17	17° m) 52'37	
	2058 Mar 19 06:18	0° <b>Υ</b>					
				conjunction	2063 Sep 13 11:01	20° <b>m</b> 43'29	1°01'41
conjunction	2058 Mar 20 17:43	0° <b>Y</b> ′21′27		minimum elong	2063 Sep 13 11:00	20° Mp 43'29	1°01'40
minimum elong	2058 Mar 20 17:43	0° <b>Υ</b> 21'27		max. Earth dist.	2063 Sep 12 23:23	20° <b>m</b> 37'12	6.43630 AU
max. Earth dist.	2058 Mar 21 14:59	0° <b>Υ</b> '34'20	5.95615 AU	morning rise	2063 Sep 26 12:48	23° m/32'56	
morning rise	2058 Apr 03 00:26	3° <b>Y</b> 33'58			2063 Oct 27 15:33	0∘ <b>⊽</b>	
retrograde	2058 Aug 13 12:05	24° <b>Y</b> °14'31		retrograde	2064 Jan 24 19:38	10° <b>≏</b> 21'09	
min. Earth dist.	2058 Oct 11 07:11	19° <b>℃</b> 19'40	3.95360 AU	opposition	2064 Mar 25 07:21	5° <b>Ω</b> 26'50	1°34'59
opposition	2058 Oct 12 06:38	19° <b>Υ</b> 11'45	-1°36'48	min. Earth dist.	2064 Mar 25 23:26	5° <b>£</b> 21'38	4.45484 AU
direct	2058 Dec 09 05:35	14° <b>Y</b> 17′28		direct	2064 May 26 18:28	0° <b>2</b> 24'11	
. ,	2059 Mar 27 23:46	0°8		evening set	2064 Sep 30 07:51	17° <b>£</b> 53'59	C 45217 ATT
evening set	2059 Apr 13 23:20	3° <b>8</b> 59'47		max. Earth dist.	2064 Oct 11 17:58	20° <b>£</b> 22'06	6.45317 AU
conjunction	2059 Apr 27 11:17	7° <b>8</b> 13'39	-0°58'18	conjunction	2064 Oct 13 05:37	20° <b>≏</b> 41'26	1°05'02
conjunction minimum elong	2059 Apr 27 11:17 2059 Apr 27 11:19	7° <b>と</b> 13'39 7° <b>と</b> 13'41	-0°58'18 0°58'17	conjunction minimum elong	2064 Oct 13 05:37 2064 Oct 13 05:37	20° <b>£</b> 41'26 20° <b>£</b> 41'27	1°05'02 1°05'03
•	•			•			
minimum elong	2059 Apr 27 11:19	7° <b>8</b> 13'41	0°58'17	minimum elong	2064 Oct 13 05:37	20° <b>≏</b> 41'27	
minimum elong max. Earth dist.	2059 Apr 27 11:19 2059 Apr 29 11:01	7°813'41 7°842'15 10°828'57 15°8	0°58'17	minimum elong	2064 Oct 13 05:37 2064 Oct 26 00:43	20° <b>£</b> 41'27 23° <b>£</b> 27'39	
minimum elong max. Earth dist.	2059 Apr 27 11:19 2059 Apr 29 11:01 2059 May 11 02:10 2059 May 30 10:27 2059 Aug 27 19:03	7°813'41 7°842'15 10°828'57 15°8 0°耳	0°58'17	minimum elong morning rise	2064 Oct 13 05:37 2064 Oct 26 00:43 2064 Nov 26 12:00	20° <b>£</b> 41'27 23° <b>£</b> 27'39 0° <b>M</b>	
minimum elong max. Earth dist.	2059 Apr 27 11:19 2059 Apr 29 11:01 2059 May 11 02:10 2059 May 30 10:27 2059 Aug 27 19:03 2059 Sep 19 13:33	7°႘313'41 7°႘42'15 10°႘28'57 15°႘ 0°Ⅱ 0°Ⅲ50'47	0°58'17	minimum elong morning rise retrograde	2064 Oct 13 05:37 2064 Oct 26 00:43 2064 Nov 26 12:00 2065 Feb 23 06:14 2065 Apr 25 00:17 2065 Apr 26 07:24	20° \$\overline{\Omega}41'27 23° \$\overline{\Omega}27'39 0° \$\overline{\Omega}\$ 10° \$\overline{\Omega}14'34 5° \$\overline{\Omega}22'14 5° \$\overline{\Omega}12'18	1°05'03
minimum elong max. Earth dist. morning rise	2059 Apr 27 11:19 2059 Apr 29 11:01 2059 May 11 02:10 2059 May 30 10:27 2059 Aug 27 19:03 2059 Sep 19 13:33 2059 Oct 12 03:33	7°813'41 7°842'15 10°828'57 15°8 0°Ⅲ 0°Ⅲ50'47 30°88	0°58'17 5.97277 AU	minimum elong morning rise retrograde opposition	2064 Oct 13 05:37 2064 Oct 26 00:43 2064 Nov 26 12:00 2065 Feb 23 06:14 2065 Apr 25 00:17 2065 Apr 26 07:24 2065 Jun 26 19:30	20° \( \Omega 41'27\) 23° \( \Omega 27'39\) 0° \( \Omega 10^\) 10° \( \Omega 14'34\) 5° \( \Omega 22'14\) 5° \( \Omega 12'18\) 0° \( \Omega 20'45\)	1°05'03 1°27'17
minimum elong max. Earth dist. morning rise  retrograde min. Earth dist.	2059 Apr 27 11:19 2059 Apr 29 11:01 2059 May 11 02:10 2059 May 30 10:27 2059 Aug 27 19:03 2059 Sep 19 13:33 2059 Oct 12 03:33 2059 Nov 16 16:13	7°813'41 7°842'15 10°828'57 15°8 0°II 0°II50'47 30°R8 25°857'47	0°58'17 5.97277 AU 4.01486 AU	minimum elong morning rise retrograde opposition min. Earth dist. direct	2064 Oct 13 05:37 2064 Oct 26 00:43 2064 Nov 26 12:00 2065 Feb 23 06:14 2065 Apr 25 00:17 2065 Apr 26 07:24 2065 Jun 26 19:30 2065 Oct 17 03:38	20° \$\Omega 41'27 \\ 23° \$\Omega 27'39 \\ 0° \$\mathbb{M}\$. \\ 10° \$\mathbb{M}\$. \\ 14'34 \\ 5° \$\mathbb{M}\$. \\ 22'14 \\ 5° \$\mathbb{M}\$. \\ 0° \$\mathbb{M}\$. \\ 20'45 \\ 15° \$\mathbb{M}\$.	1°05'03 1°27'17
minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition	2059 Apr 27 11:19 2059 Apr 29 11:01 2059 May 11 02:10 2059 May 30 10:27 2059 Aug 27 19:03 2059 Sep 19 13:33 2059 Oct 12 03:33 2059 Nov 16 16:13 2059 Nov 18 03:01	7°813'41 7°842'15 10°828'57 15°8 0°II 0°II50'47 30°R8 25°857'47 25°845'56	0°58'17 5.97277 AU 4.01486 AU	minimum elong morning rise retrograde opposition min. Earth dist. direct	2064 Oct 13 05:37 2064 Oct 26 00:43 2064 Nov 26 12:00 2065 Feb 23 06:14 2065 Apr 25 00:17 2065 Apr 26 07:24 2065 Jun 26 19:30 2065 Oct 17 03:38 2065 Oct 30 20:53	20° \( \Omega \) 41'27 23° \( \Omega \) 27'39 0° \( \mathred \) 10° \( \mathred \) 12'14 5° \( \mathred \) 12'18 0° \( \mathred \) 20'45 15° \( \mathred \) 17° \( \mathred \) 57'35	1°05'03 1°27'17 4.43439 AU
minimum elong max. Earth dist. morning rise  retrograde min. Earth dist.	2059 Apr 27 11:19 2059 Apr 29 11:01 2059 May 11 02:10 2059 May 30 10:27 2059 Aug 27 19:03 2059 Sep 19 13:33 2059 Oct 12 03:33 2059 Nov 16 16:13 2059 Nov 18 03:01 2060 Jan 15 03:10	7°813'41 7°842'15 10°828'57 15°8 0°II 0°II50'47 30°R8 25°857'47 25°845'56 20°849'11	0°58'17 5.97277 AU 4.01486 AU	minimum elong morning rise retrograde opposition min. Earth dist. direct	2064 Oct 13 05:37 2064 Oct 26 00:43 2064 Nov 26 12:00 2065 Feb 23 06:14 2065 Apr 25 00:17 2065 Apr 26 07:24 2065 Jun 26 19:30 2065 Oct 17 03:38	20° \$\Omega 41'27 \\ 23° \$\Omega 27'39 \\ 0° \$\mathbb{M}\$. \\ 10° \$\mathbb{M}\$. \\ 14'34 \\ 5° \$\mathbb{M}\$. \\ 22'14 \\ 5° \$\mathbb{M}\$. \\ 0° \$\mathbb{M}\$. \\ 20'45 \\ 15° \$\mathbb{M}\$.	1°05'03 1°27'17
minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition direct	2059 Apr 27 11:19 2059 Apr 29 11:01 2059 May 11 02:10 2059 May 30 10:27 2059 Aug 27 19:03 2059 Sep 19 13:33 2059 Oct 12 03:33 2059 Nov 16 16:13 2059 Nov 18 03:01 2060 Jan 15 03:10 2060 Apr 04 01:53	7°813'41 7°842'15 10°828'57 15°8 0°11 0°150'47 30°88 25°857'47 25°845'56 20°849'11 0°11	0°58'17 5.97277 AU 4.01486 AU	minimum elong morning rise retrograde opposition min. Earth dist. direct evening set max. Earth dist.	2064 Oct 13 05:37 2064 Oct 26 00:43 2064 Nov 26 12:00 2065 Feb 23 06:14 2065 Apr 25 00:17 2065 Apr 26 07:24 2065 Jun 26 19:30 2065 Oct 17 03:38 2065 Oct 30 20:53 2065 Nov 10 13:10	20° \( \Omega 41'27\) 23° \( \Omega 27'39\) 0° \( \mathred{m}\) 10° \( \mathred{m} 14'34\) 5° \( \mathred{m} 12'14\) 5° \( \mathred{m} 12'18\) 0° \( \mathred{m} 20'45\) 15° \( \mathred{m} \) 17° \( \mathred{m} 57'35\) 20° \( \mathred{m} 18'24\)	1°05'03 1°27'17 4.43439 AU 6.39626 AU
minimum elong max. Earth dist. morning rise  retrograde min. Earth dist. opposition	2059 Apr 27 11:19 2059 Apr 29 11:01 2059 May 11 02:10 2059 May 30 10:27 2059 Aug 27 19:03 2059 Sep 19 13:33 2059 Oct 12 03:33 2059 Nov 16 16:13 2059 Nov 18 03:01 2060 Jan 15 03:10	7°813'41 7°842'15 10°828'57 15°8 0°II 0°II50'47 30°R8 25°857'47 25°845'56 20°849'11	0°58'17 5.97277 AU 4.01486 AU	minimum elong morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist. conjunction	2064 Oct 13 05:37 2064 Oct 26 00:43 2064 Nov 26 12:00 2065 Feb 23 06:14 2065 Apr 25 00:17 2065 Apr 26 07:24 2065 Jun 26 19:30 2065 Oct 17 03:38 2065 Oct 30 20:53 2065 Nov 10 13:10	20° \( \Omega 41'27\) 23° \( \Omega 27'39\) 0° \( \mathred{m}\) 10° \( \mathred{m} 14'34\) 5° \( \mathred{m} 12'14\) 5° \( \mathred{m} 12'18\) 0° \( \mathred{m} 20'45\) 15° \( \mathred{m} \) 17° \( \mathred{m} 57'35\) 20° \( \mathred{m} 18'24\) 20° \( \mathred{m} 45'31\)	1°05'03 1°27'17 4.43439 AU 6.39626 AU 0°50'50
minimum elong max. Earth dist. morning rise  retrograde  min. Earth dist. opposition direct  evening set	2059 Apr 27 11:19 2059 Apr 29 11:01 2059 May 11 02:10 2059 May 30 10:27 2059 Aug 27 19:03 2059 Sep 19 13:33 2059 Oct 12 03:33 2059 Nov 16 16:13 2059 Nov 18 03:01 2060 Jan 15 03:10 2060 Apr 04 01:53 2060 May 20 10:18	7°813'41 7°842'15 10°828'57 15°8 0°川 0°川50'47 30°88 25°857'47 25°845'56 20°849'11 0°川 10°川09'23	0°58'17 5.97277 AU 4.01486 AU -1°09'13	minimum elong morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong	2064 Oct 13 05:37 2064 Oct 26 00:43 2064 Nov 26 12:00 2065 Feb 23 06:14 2065 Apr 25 00:17 2065 Apr 26 07:24 2065 Jun 26 19:30 2065 Oct 17 03:38 2065 Oct 30 20:53 2065 Nov 10 13:10 2065 Nov 12 14:21 2065 Nov 12 14:23	20° \( \Omega 41'27\) 23° \( \Omega 27'39\) 0° \( \mathbb{m}\) 10° \( \mathbb{m}\).14'34 5° \( \mathbb{m}\).22'14 5° \( \mathbb{m}\).12'18 0° \( \mathbb{m}\).20'45 15° \( \mathbb{m}\). 17° \( \mathbb{m}\).57'35 20° \( \mathbb{m}\).45'31 20° \( \mathbb{m}\).45'32	1°05'03 1°27'17 4.43439 AU 6.39626 AU
minimum elong max. Earth dist. morning rise  retrograde  min. Earth dist. opposition direct  evening set  conjunction	2059 Apr 27 11:19 2059 Apr 29 11:01 2059 May 11 02:10 2059 May 30 10:27 2059 Aug 27 19:03 2059 Sep 19 13:33 2059 Oct 12 03:33 2059 Nov 16 16:13 2059 Nov 18 03:01 2060 Jan 15 03:10 2060 Apr 04 01:53 2060 May 20 10:18	7°813'41 7°842'15 10°828'57 15°8 0°用 0°用50'47 30°88 25°857'47 25°845'56 20°849'11 0°用 10°用09'23	0°58'17 5.97277 AU 4.01486 AU -1°09'13	minimum elong morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist. conjunction	2064 Oct 13 05:37 2064 Oct 26 00:43 2064 Nov 26 12:00 2065 Feb 23 06:14 2065 Apr 25 00:17 2065 Apr 26 07:24 2065 Jun 26 19:30 2065 Oct 17 03:38 2065 Oct 30 20:53 2065 Nov 10 13:10 2065 Nov 12 14:21 2065 Nov 12 14:23 2065 Nov 25 05:46	20° \( \Omega 41'27\) 23° \( \Omega 27'39\) 0° \( \mathbb{m}\) 10° \( \mathbb{m}\).14'34 5° \( \mathbb{m}\).22'14 5° \( \mathbb{m}\).12'18 0° \( \mathbb{m}\).20'45 15° \( \mathbb{m}\). 17° \( \mathbb{m}\).57'35 20° \( \mathbb{m}\).45'31 20° \( \mathbb{m}\).45'32 23° \( \mathbb{m}\).32'37	1°05'03 1°27'17 4.43439 AU 6.39626 AU 0°50'50
minimum elong max. Earth dist. morning rise  retrograde  min. Earth dist. opposition direct  evening set  conjunction minimum elong	2059 Apr 27 11:19 2059 Apr 29 11:01 2059 May 11 02:10 2059 May 30 10:27 2059 Aug 27 19:03 2059 Sep 19 13:33 2059 Oct 12 03:33 2059 Nov 16 16:13 2059 Nov 18 03:01 2060 Jan 15 03:10 2060 Apr 04 01:53 2060 May 20 10:18 2060 Jun 03 03:47 2060 Jun 03 03:49	7°813'41 7°842'15 10°828'57 15°8 0°Ⅲ 0°Ⅲ50'47 30°88 25°857'47 25°845'56 20°849'11 0°Ⅲ 10°Ⅲ09'23 13°Ⅲ21'13 13°Ⅲ21'14	0°58'17 5.97277 AU 4.01486 AU -1°09'13 -0°30'19 0°30'19	minimum elong morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise	2064 Oct 13 05:37 2064 Oct 26 00:43 2064 Nov 26 12:00 2065 Feb 23 06:14 2065 Apr 25 00:17 2065 Apr 26 07:24 2065 Jun 26 19:30 2065 Oct 17 03:38 2065 Oct 30 20:53 2065 Nov 10 13:10 2065 Nov 12 14:21 2065 Nov 12 14:23 2065 Nov 25 05:46 2065 Dec 25 16:54	20° \$\Overline{	1°05'03 1°27'17 4.43439 AU 6.39626 AU 0°50'50
minimum elong max. Earth dist. morning rise  retrograde  min. Earth dist. opposition direct  evening set  conjunction minimum elong max. Earth dist.	2059 Apr 27 11:19 2059 Apr 29 11:01 2059 May 11 02:10 2059 May 30 10:27 2059 Aug 27 19:03 2059 Sep 19 13:33 2059 Oct 12 03:33 2059 Nov 16 16:13 2059 Nov 18 03:01 2060 Jan 15 03:10 2060 Apr 04 01:53 2060 May 20 10:18 2060 Jun 03 03:47 2060 Jun 03 03:49 2060 Jun 05 09:59	7°813'41 7°842'15 10°828'57 15°8 0°Ⅲ 0°Ⅲ50'47 30°88 25°857'47 25°845'56 20°849'11 0°Ⅲ 10°Ⅲ09'23 13°Ⅲ21'13 13°Ⅲ21'14	0°58'17 5.97277 AU 4.01486 AU -1°09'13 -0°30'19 0°30'19	minimum elong morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde	2064 Oct 13 05:37 2064 Oct 26 00:43 2064 Nov 26 12:00 2065 Feb 23 06:14 2065 Apr 25 00:17 2065 Apr 26 07:24 2065 Jun 26 19:30 2065 Oct 17 03:38 2065 Oct 30 20:53 2065 Nov 10 13:10 2065 Nov 12 14:21 2065 Nov 12 14:23 2065 Nov 25 05:46 2065 Dec 25 16:54 2066 Mar 26 21:28	20° \$\textit{\Omega} 41'27 23° \$\textit{\Omega} 27'39 0° \$\textit{\mathbb{m}}.14'34 5° \$\textit{\mathbb{m}}.12'18 0° \$\textit{\mathbb{m}}.20'45 15° \$\textit{\mathbb{m}}. 17° \$\textit{\mathbb{m}}.57'35 20° \$\textit{\mathbb{m}}.18'24 20° \$\textit{\mathbb{m}}.45'31 20° \$\textit{\mathbb{m}}.45'32 23° \$\textit{\mathbb{m}}.32'37 0° \$\textit{\sigma}\$ 10° \$\textit{\sigma}\$46'43	1°05'03 1°27'17 4.43439 AU 6.39626 AU 0°50'50 0°50'49
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minimum elong max. Earth dist. morning rise  retrograde  min. Earth dist. opposition direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct	2059 Apr 27 11:19 2059 Apr 29 11:01 2059 May 11 02:10 2059 May 30 10:27 2059 Aug 27 19:03 2059 Sep 19 13:33 2059 Oct 12 03:33 2059 Nov 16 16:13 2059 Nov 18 03:01 2060 Jun 15 03:10 2060 Apr 04 01:53 2060 May 20 10:18  2060 Jun 03 03:47 2060 Jun 03 03:47 2060 Jun 03 03:49 2060 Jun 05 09:59 2060 Jun 16 22:58 2060 Aug 20 18:13 2060 Oct 23 09:32 2060 Dec 21 23:27 2060 Dec 28 09:15 2061 Feb 18 23:14 2061 Apr 12 05:05	7°813'41 7°842'15 10°828'57 15°8 0°Ⅲ 0°Ⅲ50'47 30°88 25°857'47 25°845'56 20°849'11 0°Ⅲ 10°Ⅲ09'23  13°Ⅲ21'14 13°Ⅲ52'49 16°Ⅲ33'36 0°9 5°956'15 0°952'00 1°902'48 30°8Ⅲ 25°Ⅲ52'14	0°58'17 5.97277 AU 4.01486 AU -1°09'13 -0°30'19 0°30'19 6.07254 AU	minimum elong morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction min. Earth dist.	2064 Oct 13 05:37 2064 Oct 26 00:43 2064 Nov 26 12:00 2065 Feb 23 06:14 2065 Apr 25 00:17 2065 Apr 26 07:24 2065 Jun 26 19:30 2065 Oct 17 03:38 2065 Oct 30 20:53 2065 Nov 10 13:10  2065 Nov 12 14:21 2065 Nov 12 14:23 2065 Nov 25 05:46 2065 Dec 25 16:54 2066 Mar 26 21:28 2066 May 26 20:10 2066 May 28 08:32 2066 Jul 28 04:47 2066 Nov 30 20:17 2066 Dec 11 11:39  2066 Dec 13 12:19 2066 Dec 13 12:20	20° \$\textit{\Omega}\$41'27 23° \$\textit{\Omega}\$27'39 0° \$\textit{\mathbb{m}}\$14'34 5° \$\textit{\mathbb{m}}\$12'18 0° \$\textit{\mathbb{m}}\$20'45 15° \$\textit{\mathbb{m}}\$17° \$\textit{\mathbb{m}}\$57'35 20° \$\textit{\mathbb{m}}\$45'31 20° \$\textit{\mathbb{m}}\$45'32 23° \$\textit{\mathbb{m}}\$45'32 23° \$\textit{\mathbb{m}}\$45'34 23° \$\textit{\mathbb{m}}\$46'43 5° \$\textit{\mathbb{m}}\$46'43 5° \$\textit{\mathbb{m}}\$44'44 10° \$\textit{\mathbb{m}}\$55'44 21° \$\textit{\mathbb{m}}\$47'40 21° \$\textit{\mathbb{m}}\$47'40	1°05'03 1°27'17 4.43439 AU 6.39626 AU 0°50'50 0°50'49 0°55'34 4.34419 AU 6.27963 AU
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minimum elong max. Earth dist. morning rise  retrograde  min. Earth dist. opposition direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct	2059 Apr 27 11:19 2059 Apr 29 11:01 2059 May 11 02:10 2059 May 30 10:27 2059 Aug 27 19:03 2059 Sep 19 13:33 2059 Oct 12 03:33 2059 Nov 16 16:13 2059 Nov 18 03:01 2060 Jun 15 03:10 2060 Apr 04 01:53 2060 May 20 10:18  2060 Jun 03 03:47 2060 Jun 03 03:47 2060 Jun 03 03:49 2060 Jun 05 09:59 2060 Jun 16 22:58 2060 Aug 20 18:13 2060 Oct 23 09:32 2060 Dec 21 23:27 2060 Dec 28 09:15 2061 Feb 18 23:14 2061 Apr 12 05:05	7°813'41 7°842'15 10°828'57 15°8 0°Ⅲ 0°Ⅲ50'47 30°88 25°857'47 25°845'56 20°849'11 0°Ⅲ 10°Ⅲ09'23  13°Ⅲ21'14 13°Ⅲ52'49 16°Ⅲ33'36 0°9 5°956'15 0°952'00 1°902'48 30°8Ⅲ 25°Ⅲ52'14	0°58'17 5.97277 AU 4.01486 AU -1°09'13 -0°30'19 0°30'19 6.07254 AU	minimum elong morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction min. Earth dist. conjunction minimum elong morning rise	2064 Oct 13 05:37 2064 Oct 26 00:43 2064 Nov 26 12:00 2065 Feb 23 06:14 2065 Apr 25 00:17 2065 Apr 26 07:24 2065 Jun 26 19:30 2065 Oct 17 03:38 2065 Oct 30 20:53 2065 Nov 10 13:10  2065 Nov 12 14:21 2065 Nov 12 14:23 2065 Nov 25 05:46 2065 Dec 25 16:54 2066 Mar 26 21:28 2066 May 26 20:10 2066 May 28 08:32 2066 Jul 28 04:47 2066 Nov 30 20:17 2066 Dec 13 12:19 2066 Dec 13 12:20 2066 Dec 26 03:20 2067 Jan 19 09:28	20° \$\textit{\Omega} 41'27 23° \$\textit{\Omega} 27'39 0° \$\textit{\Omega} 10° \$\textit{\mathbb{n}} 12'18 0° \$\textit{\mathbb{n}} 20'45 15° \$\textit{\mathbb{n}} 17° \$\textit{\mathbb{n}} 57'35 20° \$\textit{\mathbb{n}} 18'24 20° \$\textit{\mathbb{n}} 45'31 20° \$\textit{\mathbb{n}} 45'31 20° \$\textit{\mathbb{n}} 45'32 23° \$\textit{\mathbb{n}} 43'32 23° \$\textit{\mathbb{n}} 45'34 23° \$\textit{\mathbb{n}} 46'43 5° \$\textit{\mathbb{n}} 46'43 5° \$\textit{\mathbb{n}} 44'41 10° \$\textit{\mathbb{n}} 55'10 18° \$\textit{\mathbb{n}} 55'44 21° \$\textit{\mathbb{n}} 47'40 21° \$\textit{\mathbb{n}} 47'40 24° \$\textit{\mathbb{n}} 39'23 0° \$\textit{\mathbb{n}} 39'23 0° \$\textit{\mathbb{n}} 47'40	1°05'03 1°27'17 4.43439 AU 6.39626 AU 0°50'50 0°50'49 0°55'34 4.34419 AU 6.27963 AU 0°21'52
minimum elong max. Earth dist. morning rise  retrograde  min. Earth dist. opposition direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct  asc. node evening set	2059 Apr 27 11:19 2059 Apr 29 11:01 2059 May 11 02:10 2059 May 30 10:27 2059 Aug 27 19:03 2059 Sep 19 13:33 2059 Oct 12 03:33 2059 Nov 16 16:13 2059 Nov 18 03:01 2060 Jun 15 03:10 2060 Apr 04 01:53 2060 Jun 03 03:47 2060 Jun 03 03:47 2060 Jun 03 03:49 2060 Jun 05 09:59 2060 Jun 16 22:58 2060 Aug 20 18:13 2060 Oct 23 09:32 2060 Dec 21 23:27 2060 Dec 20 15:43 2060 Dec 28 09:15 2061 Feb 18 23:14 2061 Apr 12 05:05 2061 Jun 25 14:52	7°813'41 7°842'15 10°828'57 15°8 0°11 0°1150'47 30°88 25°857'47 25°845'56 20°849'11 0°11 10°1109'23 13°1121'14 13°152'49 16°133'36 0°9 5°956'15 0°952'00 1°902'48 30°811 25°1152'14 0°9 1°933'12 14°933'06	0°58'17 5.97277 AU 4.01486 AU -1°09'13 -0°30'19 0°30'19 6.07254 AU	minimum elong morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde	2064 Oct 13 05:37 2064 Oct 26 00:43 2064 Nov 26 12:00 2065 Feb 23 06:14 2065 Apr 25 00:17 2065 Apr 26 07:24 2065 Jun 26 19:30 2065 Oct 17 03:38 2065 Oct 30 20:53 2065 Nov 10 13:10  2065 Nov 12 14:21 2065 Nov 12 14:23 2065 Nov 25 05:46 2065 Dec 25 16:54 2066 Mar 26 21:28 2066 May 26 20:10 2066 May 28 08:32 2066 Jul 28 04:47 2066 Nov 30 20:17 2066 Dec 13 12:19 2066 Dec 13 12:20 2066 Dec 26 03:20 2067 Jan 19 09:28 2067 Apr 29 16:00	20° \$\textit{\Omega}\$41'27 23° \$\textit{\Omega}\$27'39 0° \$\textit{\Omega}\$10° \$\textit{\Upsilon}\$12'14 5° \$\textit{\Upsilon}\$12'18 0° \$\textit{\Upsilon}\$20'45 15° \$\textit{\Upsilon}\$17° \$\textit{\Upsilon}\$57'35 20° \$\textit{\Upsilon}\$18'24 20° \$\textit{\Upsilon}\$45'31 20° \$\textit{\Upsilon}\$45'31 20° \$\textit{\Upsilon}\$46'43 5° \$\textit{\Upsilon}\$46'43 5° \$\textit{\Upsilon}\$46'43 5° \$\textit{\Upsilon}\$46'44 10° \$\textit{\Upsilon}\$55'10 18° \$\textit{\Upsilon}\$55'44 21° \$\textit{\Upsilon}\$20'03 21° \$\textit{\Upsilon}\$47'40 21° \$\textit{\Upsilon}\$47'40 24° \$\textit{\Upsilon}\$39'23	1°05'03  1°27'17 4.43439 AU  6.39626 AU 0°50'50 0°50'49  0°55'34 4.34419 AU  6.27963 AU 0°21'52 0°21'52
minimum elong max. Earth dist. morning rise  retrograde  min. Earth dist. opposition direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct  asc. node	2059 Apr 27 11:19 2059 Apr 29 11:01 2059 May 11 02:10 2059 May 30 10:27 2059 Aug 27 19:03 2059 Sep 19 13:33 2059 Oct 12 03:33 2059 Nov 16 16:13 2059 Nov 18 03:01 2060 Jun 15 03:10 2060 Apr 04 01:53 2060 May 20 10:18  2060 Jun 03 03:47 2060 Jun 03 03:47 2060 Jun 03 03:49 2060 Jun 05 09:59 2060 Jun 16 22:58 2060 Aug 20 18:13 2060 Oct 23 09:32 2060 Dec 21 23:27 2060 Dec 28 09:15 2061 Apr 12 05:05 2061 Apr 22 04:56	7°813'41 7°842'15 10°828'57 15°8 0°11 0°150'47 30°88 25°857'47 25°845'56 20°849'11 0°11 10°109'23 13°1121'14 13°152'49 16°133'36 0°9 5°956'15 0°952'00 1°902'48 30°811 25°1152'14 0°9 1°9333'12	0°58'17 5.97277 AU 4.01486 AU -1°09'13 -0°30'19 0°30'19 6.07254 AU -0°17'14 4.14131 AU	minimum elong morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction min. Earth dist. conjunction minimum elong morning rise	2064 Oct 13 05:37 2064 Oct 26 00:43 2064 Nov 26 12:00 2065 Feb 23 06:14 2065 Apr 25 00:17 2065 Apr 26 07:24 2065 Jun 26 19:30 2065 Oct 17 03:38 2065 Oct 30 20:53 2065 Nov 10 13:10  2065 Nov 12 14:21 2065 Nov 12 14:23 2065 Nov 25 05:46 2065 Dec 25 16:54 2066 Mar 26 21:28 2066 May 26 20:10 2066 May 28 08:32 2066 Jul 28 04:47 2066 Nov 30 20:17 2066 Dec 13 12:19 2066 Dec 13 12:20 2066 Dec 26 03:20 2067 Jan 19 09:28	20° \$\textit{\Omega} 41'27 23° \$\textit{\Omega} 27'39 0° \$\textit{\Omega} 10° \$\textit{\mathbb{M}} 14'34 5° \$\textit{\mathbb{M}} 12'18 0° \$\textit{\mathbb{M}} 20'45 15° \$\textit{\mathbb{M}} 17° \$\textit{\mathbb{M}} 57'35 20° \$\textit{\mathbb{M}} 18'24 20° \$\textit{\mathbb{M}} 45'31 20° \$\textit{\mathbb{M}} 45'32 23° \$\textit{\mathbb{M}} 45'32 23° \$\textit{\mathbb{M}} 45'32 23° \$\textit{\mathbb{M}} 45'34 5° \$\textit{\mathbb{M}} 46'43 5° \$\textit{\mathbb{M}} 46'43 5° \$\textit{\mathbb{M}} 45'411 0° \$\textit{\mathbb{M}} 55'44 21° \$\textit{\mathbb{M}} 47'40 21° \$\textit{\mathbb{M}} 47'40 24° \$\textit{\mathbb{M}} 39'23 0° \$\textit{\mathbb{M}} 12" \$\textit{\mathbb{M}} 46'11	1°05'03 1°27'17 4.43439 AU 6.39626 AU 0°50'50 0°50'49 0°55'34 4.34419 AU 6.27963 AU 0°21'52
minimum elong max. Earth dist. morning rise  retrograde  min. Earth dist. opposition direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct  asc. node evening set  conjunction	2059 Apr 27 11:19 2059 Apr 29 11:01 2059 May 11 02:10 2059 May 30 10:27 2059 Aug 27 19:03 2059 Sep 19 13:33 2059 Oct 12 03:33 2059 Nov 16 16:13 2059 Nov 18 03:01 2060 Jan 15 03:10 2060 Apr 04 01:53 2060 May 20 10:18  2060 Jun 03 03:47 2060 Jun 03 03:47 2060 Jun 05 09:59 2060 Jun 05 09:59 2060 Jun 16 22:58 2060 Aug 20 18:13 2060 Oct 23 09:32 2060 Dec 21 23:27 2060 Dec 20 15:43 2060 Dec 28 09:15 2061 Apr 12 05:05 2061 Apr 22 04:56 2061 Jun 25 14:52	7°813'41 7°842'15 10°828'57 15°8 0°11 0°1150'47 30°88 25°857'47 25°845'56 20°849'11 0°11 10°1109'23 13°1121'14 13°152'49 16°133'36 0°9 5°956'15 0°952'00 1°902'48 30°811 25°1152'14 0°9 1°933'12 14°935'06	0°58'17 5.97277 AU  4.01486 AU -1°09'13  -0°30'19 0°30'19 6.07254 AU  -0°17'14 4.14131 AU	minimum elong morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction min. Earth dist. direct evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition	2064 Oct 13 05:37 2064 Oct 26 00:43 2064 Nov 26 12:00 2065 Feb 23 06:14 2065 Apr 25 00:17 2065 Apr 26 07:24 2065 Jun 26 19:30 2065 Oct 17 03:38 2065 Oct 30 20:53 2065 Nov 10 13:10  2065 Nov 12 14:21 2065 Nov 12 14:23 2065 Nov 25 05:46 2065 Dec 25 16:54 2066 Mar 26 21:28 2066 May 26 20:10 2066 May 28 08:32 2066 Jul 28 04:47 2066 Nov 30 20:17 2066 Dec 13 12:19 2066 Dec 13 12:20 2066 Dec 26 03:20 2067 Jan 19 09:28 2067 Jun 29 12:23	20° \$\times 41'27 23° \$\times 27'39 0° \$\times 10° \$\times 12'14 5° \$\times 12'18 0° \$\times 20'45 15° \$\times 17° \$\times 57'35 20° \$\times 18'24 20° \$\times 45'31 20° \$\times 45'32 23° \$\times 23'37 0° \$\times 10° \$\times 46'43 5° \$\times 55'446 5° \$\times 43'11 0° \$\times 55'10 18° \$\times 55'44 21° \$\times 20'03 21° \$\times 47'40 24° \$\times 39'23 0° \$\times 12° \$\times 46'11 7° \$\times 55'07	1°05'03  1°27'17 4.43439 AU  6.39626 AU 0°50'50 0°50'49  0°55'34 4.34419 AU  6.27963 AU 0°21'52 0°21'52
minimum elong max. Earth dist. morning rise  retrograde  min. Earth dist. opposition direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist.  direct  asc. node evening set  conjunction minimum elong	2059 Apr 27 11:19 2059 Apr 29 11:01 2059 May 11 02:10 2059 May 30 10:27 2059 Aug 27 19:03 2059 Sep 19 13:33 2059 Oct 12 03:33 2059 Nov 16 16:13 2059 Nov 18 03:01 2060 Jun 15 03:10 2060 Apr 04 01:53 2060 Jun 03 03:47 2060 Jun 03 03:49 2060 Jun 03 03:49 2060 Jun 05 09:59 2060 Jun 16 22:58 2060 Aug 20 18:13 2060 Oct 23 09:32 2060 Dec 21 23:27 2060 Dec 21 23:27 2060 Dec 20 15:43 2060 Dec 28 09:15 2061 Feb 18 23:14 2061 Apr 12 05:05 2061 Jun 25 14:52 2061 Jul 09 08:25 2061 Jul 09 08:25 2061 Jul 09 08:25	7°813'41 7°842'15 10°828'57 15°8 0°11 0°1150'47 30°88 25°857'47 25°845'56 20°849'11 0°11 10°1109'23 13°1121'14 13°152'49 16°133'36 0°9 5°956'15 0°952'00 1°902'48 30°811 25°1152'14 0°9 1°933'12 14°935'06	0°58'17 5.97277 AU  4.01486 AU -1°09'13  -0°30'19 0°30'19 6.07254 AU  -0°17'14 4.14131 AU	minimum elong morning rise  retrograde opposition min. Earth dist. direct  evening set max. Earth dist.  conjunction minimum elong morning rise  retrograde opposition min. Earth dist. direct evening set max. Earth dist. conjunction minimum elong morning rise  retrograde opposition minimum elong morning rise  retrograde opposition minimum elong morning rise	2064 Oct 13 05:37 2064 Oct 26 00:43 2064 Nov 26 12:00 2065 Feb 23 06:14 2065 Apr 25 00:17 2065 Apr 26 07:24 2065 Jun 26 19:30 2065 Oct 17 03:38 2065 Oct 30 20:53 2065 Nov 10 13:10  2065 Nov 12 14:21 2065 Nov 12 14:23 2065 Nov 25 05:46 2065 Dec 25 16:54 2066 Mar 26 21:28 2066 May 26 20:10 2066 May 28 08:32 2066 Jul 28 04:47 2066 Nov 30 20:17 2066 Dec 13 12:19 2066 Dec 13 12:19 2066 Dec 13 12:20 2066 Dec 13 12:20 2066 Dec 13 12:20 2066 Dec 14 10:20 2067 Jun 19 09:28 2067 Jun 29 12:23 2067 Jun 30 20:46	20° \$\textit{\Omega} 41'27 23° \$\textit{\Omega} 27'39 0° \$\textit{\Omega} 10° \$\textit{\mathbb{M}} 14'34 5° \$\textit{\mathbb{M}} 12'18 0° \$\textit{\mathbb{M}} 20'45 15° \$\textit{\mathbb{M}} 17° \$\textit{\mathbb{M}} 57'35 20° \$\textit{\mathbb{M}} 18'24 20° \$\textit{\mathbb{M}} 45'31 20° \$\textit{\mathbb{M}} 45'31 20° \$\textit{\mathbb{M}} 46'43 5° \$\textit{\mathbb{M}} 46'43 5° \$\textit{\mathbb{M}} 46'43 5° \$\textit{\mathbb{M}} 45'31 10° \$\textit{\mathbb{M}} 46'43 5° \$\textit{\mathbb{M}} 45'11 0° \$\textit{\mathbb{M}} 55'10 18° \$\textit{\mathbb{M}} 55'44 21° \$\textit{\mathbb{M}} 47'40 21° \$\textit{\mathbb{M}} 47'40 24° \$\textit{\mathbb{M}} 39'23 0° \$\textit{\mathbb{M}} 12' \$\textit{\mathbb{M}} 46'11 7° \$\textit{\mathbb{M}} 53'07 7° \$\textit{\mathbb{M}} 42'45	1°05'03  1°27'17 4.43439 AU  6.39626 AU 0°50'50 0°50'49  0°55'34 4.34419 AU  6.27963 AU 0°21'52 0°21'52

evening set max. Earth dist.	2068 Jan 02 03:46 2068 Jan 13 09:22	21°832'45 24°810'13	6.13492 AU	conjunction minimum elong behind sun begin	2073 Jul 14 06:35 2073 Jul 14 06:34 2073 Jul 14 01:30	22°\$28'26 22°\$28'25 22°\$25'35	0°12'45 0°12'44
conjunction	2068 Jan 14 21:09	24° <b>る</b> 31'11		behind sun end	2073 Jul 14 11:38	22° <b>©</b> 31'15	
minimum elong	2068 Jan 14 21:09	24° <b>පි</b> 31'11	0°15'07	max. Earth dist.	2073 Jul 15 20:47	22°549'51	6.23763 AU
behind sun begin	2068 Jan 14 18:05	24° <b>る</b> 29'23		morning rise	2073 Jul 27 22:55	25° <b>©</b> 32'01	
behind sun end	2068 Jan 15 00:13	24° <b>ろ</b> 32'58			2073 Aug 17 10:19	$0^{\circ}\Omega$	
morning rise	2068 Jan 27 15:20	27° <b>る</b> 30'16		retrograde	2073 Nov 29 07:53	13° <b>Ω</b> 35′27	
	2068 Feb 07 10:27	0° <b>≈</b>		min. Earth dist.	2074 Jan 27 10:54	8° <b>Ω</b> 40'17	4.30652 AU
	2068 Apr 30 22:07	15° <b>≈</b>		opposition	2074 Jan 28 03:54	8° <b>Ω</b> 34'36	0°43'59
retrograde	2068 Jun 03 17:40	16° <b>≈</b> 45'36		direct	2074 Mar 29 16:22	3° <b>Ω</b> 32′23	
	2068 Jul 07 17:10	15°R <b>≈</b>			2074 Jul 03 07:58	15° <b>Ω</b>	
opposition	2068 Aug 03 07:45	11° <b>≈</b> 49'47		evening set	2074 Aug 03 12:25	21° <b>Ω</b> 33'01	
min. Earth dist.	2068 Aug 03 23:00	11° <b>≈</b> 44'49	4.06576 AU				
direct	2068 Oct 02 04:27	6° <b>≈</b> 55'01		conjunction	2074 Aug 16 23:36	24° <b>Ω</b> 29'19	0°44'56
	2068 Dec 15 21:45	15° <b>≈</b>		minimum elong	2074 Aug 16 23:34	24° <b>Ω</b> 29'18	0°44'56
evening set	2069 Feb 04 11:00	26° <b>≈</b> 10'44		max. Earth dist.	2074 Aug 17 12:05	24° <b>Ω</b> 36′08	6.36724 AU
				morning rise	2074 Aug 30 08:28	27° <b>Ω</b> 24'21	
conjunction	2069 Feb 17 08:57	29° <b>≈</b> 16′33			2074 Sep 11 10:20	0° <b>m</b>	
minimum elong	2069 Feb 17 08:54	29° <b>≈</b> 16'32	0°48'30	retrograde	2074 Dec 29 23:20	14° Mp 36'00	
max. Earth dist.	2069 Feb 17 02:12	29° <b>≈</b> 12'30	6.00866 AU	opposition	2075 Feb 28 03:11	9° <b>™</b> 38'57	1°21'18
	2069 Feb 20 09:12	0° <b>∀</b>		min. Earth dist.	2075 Feb 28 04:12	9° <b>™</b> 38'37	4.41405 AU
morning rise	2069 Mar 02 08:53	2° <b>∺</b> 23'41		direct	2075 Apr 30 21:01	4° Mp 36′02	
retrograde	2069 Jul 11 16:19	22° <b>)</b> 41′01		evening set	2075 Sep 04 15:54	22° Mp 13'04	
opposition	2069 Sep 09 18:52	17° <b>¥</b> 41'27					
min. Earth dist.	2069 Sep 09 12:27		3.96830 AU	conjunction	2075 Sep 17 19:24	25° <b>m</b> 03'11	1°03'12
direct	2069 Nov 07 08:42	12° <b>)</b> 47′50		minimum elong	2075 Sep 17 19:23	25° Mp 03'10	1°03'12
	2070 Mar 02 08:59	0° <b>Υ</b>		max. Earth dist.	2075 Sep 17 02:25	24° <b>m</b> 54'00	6.44422 AU
evening set	2070 Mar 12 19:10	2° <b>Y</b> 29'33		morning rise	2075 Sep 30 20:16	27° <b>m</b> 51'55	
					2075 Oct 10 20:42	0∘ <b>ಹ</b>	
conjunction	2070 Mar 26 00:11	5° <b>Y</b> 41'19		retrograde	2076 Jan 29 01:37	14° <b>≏</b> 37'58	
minimum elong	2070 Mar 26 00:10	5° <b>Y</b> 41'19	1°04'37	opposition	2076 Mar 29 13:21	9° <b>≏</b> 44'01	1°35'24
max. Earth dist.	2070 Mar 27 02:12	5° <b>℃</b> 57'05	5.94881 AU	min. Earth dist.	2076 Mar 30 08:54	9° <b>≏</b> 37'43	4.45707 AU
morning rise	2070 Apr 08 08:17	8° <b>Y</b> 54'46		direct	2076 May 31 03:14	4° <b>≏</b> 41'26	
retrograde	2070 Aug 18 20:34	29° <b>Ƴ</b> 37'09		evening set	2076 Oct 04 14:06	22° <b>≏</b> 11'04	
min. Earth dist.	2070 Oct 16 11:14	24° <b>Y</b> '43'03	3.95447 AU	max. Earth dist.	2076 Oct 15 21:28	24° <b>≏</b> 37'52	6.44945 AU
opposition	2070 Oct 17 14:18	24° <b>Ƴ</b> 33'54	-1°35'01				
direct	2070 Dec 14 10:40	19° <b>Ƴ</b> 39'20		conjunction	2076 Oct 17 11:15	24° <b>≏</b> 58'23	1°04'03
	2071 Mar 09 02:50	0° <b>8</b>		minimum elong	2076 Oct 17 11:16	24° <b>≏</b> 58'24	1°04'03
evening set	2071 Apr 19 08:03	9° <b>8</b> 20'38		morning rise	2076 Oct 30 05:34	27° <b>≏</b> 44'28	
					2076 Nov 09 18:46	0°M₊	
conjunction	2071 May 02 20:58	12° <b>8</b> 34'34		retrograde	2077 Feb 27 13:00	14°ML33'37	
minimum elong	2071 May 02 21:00	12° <b>8</b> 34'35		opposition	2077 Apr 29 08:41	9°M41'26	1°24'12
max. Earth dist.	2071 May 04 22:53		5.98149 AU	min. Earth dist.	2077 Apr 30 16:25	9° <b>M</b> 31′18	4.42508 AU
	2071 May 13 00:49	15° <b>8</b>		direct	2077 Jul 01 02:15	4°M40'10	
morning rise	2071 May 16 12:49	15° <b>8</b> 49'50			2077 Sep 30 04:05	15° <b>M</b> ₊	
	2071 Jul 22 08:27	0°II		evening set	2077 Nov 04 03:39	22°M19'42	
retrograde	2071 Sep 24 15:23	6°Ⅱ05'06	4.02002 477	max. Earth dist.	2077 Nov 14 18:52	24°M40'25	6.38204 AU
min. Earth dist.	2071 Nov 21 18:00		4.03002 AU				
opposition	2071 Nov 23 05:15	1° <b>I</b> I00'00	-1°02'44	conjunction	2077 Nov 16 20:42	25°ML08'01	0°47'31
	2071 Nov 30 14:28	30° <b>₹</b> 8		minimum elong	2077 Nov 16 20:43	25°M08'02	0°47'32
direct	2072 Jan 20 08:44	26° <b>8</b> 02'43		morning rise	2077 Nov 29 11:52	27°M55'36	
	2072 Mar 10 11:52	0°Щ		_	2077 Dec 08 23:30	0° <b>∡</b>	
evening set	2072 May 25 15:57	15° <b>Ⅱ</b> 17'39		retrograde	2078 Mar 31 12:35	15° <b>∡</b> 16′02	
				opposition	2078 May 31 10:15	10° <b>∡</b> 24′05	0°49'25
conjunction	2072 Jun 08 09:56	18° <b>Ⅲ</b> 28'44		min. Earth dist.	2078 Jun 01 23:44	10° <b>₹</b> 12'09	4.32575 AU
minimum elong	2072 Jun 08 09:57	18° <b>Ⅱ</b> 28'45		direct	2078 Aug 01 16:51	5° <b>∡</b> 124'49	
max. Earth dist.	2072 Jun 10 17:23	19° <b>Ⅱ</b> 00'53	6.09260 AU	evening set	2078 Dec 05 06:44	23° 🖈 30'29	( 05051 : **
morning rise	2072 Jun 22 05:01	21° <b>Ⅱ</b> 40′09		max. Earth dist.	2078 Dec 15 21:52	25° <b>₹</b> 55′24	6.25851 AU
, 1	2072 Jul 30 03:33	0°95			2070 D 17 22 10	260 72215	001755
retrograde	2072 Oct 28 03:34	10°952'04	4460=6	conjunction	2078 Dec 17 22:48	26° <b>×</b> 23'17	0°16'55
min. Earth dist.	2072 Dec 25 10:51	5°958'33	4.16376 AU	minimum elong	2078 Dec 17 22:49	26° 🖈 23'18	0°16'55
opposition	2072 Dec 26 17:41	5°9548'06	-0°09'09	morning rise	2078 Dec 30 14:13	29° <b>⊀</b> 16′01	
direct	2073 Feb 23 21:46	0°9647'55			2079 Jan 02 19:56	0°る	
asc. node	2073 Mar 01 06:58	0°950'47		retrograde	2079 May 04 14:06	17° <b>る</b> 32'29	
evening set	2073 Jun 30 13:47	19° <b>©</b> 24'15		desc. node	2079 Jun 18 04:17	14°る40'12	000011
				opposition	2079 Jul 04 10:06	12° <b>る</b> 39'07	-0~02'16

min. Earth dist. direct evening set	2079 Jul 05 15:51 2079 Sep 03 12:26 2080 Jan 06 20:41	12°පි29'34 7°පි42'24 26°පි25'29	4.18544 AU	conjunction minimum elong max. Earth dist.	2085 Jul 19 00:53 2085 Jul 19 00:52 2085 Jul 20 11:57	27°\$07'03 27°\$07'02 27°\$26'38	0°17'45 0°17'45 6.25863 AU
max. Earth dist.	2080 Jan 18 07:28	29° <b>ප්</b> 06'41	6.11366 AU	morning rise	2085 Jul 31 23:22 2085 Aug 01 16:14	0°Ω 0°Ω09'20	0.23003710
conjunction minimum elong	2080 Jan 19 14:38 2080 Jan 19 14:37	29° <b>ප්</b> 25'02 29° <b>ප්</b> 25'01		retrograde	2085 Oct 19 16:51 2085 Dec 03 15:24	15° <b>Ω</b> 18° <b>Ω</b> 04'09	
morning rise	2080 Jan 22 02:00 2080 Feb 01 09:21 2080 Mar 31 11:23	0°≈ 2°≈25'18 15°≈		opposition min. Earth dist.	2086 Jan 17 13:54 2086 Feb 01 11:41 2086 Jan 31 21:31	15°RN 13°N03'53 13°N08'36	0°50'17 4.32454 AU
retrograde	2080 Jun 09 01:23	21° <b>≈</b> 50′58		direct	2086 Apr 03 04:30	8° <b>Ω</b> 01'32	
opposition	2080 Aug 08 12:58	16° <b>≈</b> 54'44			2086 Jun 14 01:11	15° <b>Ω</b>	
min. Earth dist.	2080 Aug 09 01:57 2080 Aug 23 14:25	16°≈50'30 15°R≈	4.04758 AU	evening set	2086 Aug 08 00:37	25° <b>Ω</b> 58′08	
direct	2080 Oct 07 05:26	13 k∞ 12°≈00'20		conjunction	2086 Aug 21 10:43	28° <b>Ω</b> 53'28	0°48'23
	2080 Nov 19 18:36	15° <b>≈</b>		minimum elong	2086 Aug 21 10:41	28° <b>Ω</b> 53′26	0°48'23
	2081 Feb 03 19:34	0° <b>∀</b>		max. Earth dist.	2086 Aug 21 17:39	28° <b>Ω</b> 57'14	6.38081 AU
evening set	2081 Feb 09 11:39	1° <b>∺</b> 21′05			2086 Aug 26 12:45	0° M)	
conjunction	2081 Feb 22 10:23	4° <b>)</b> €27'53	-0°52'06	morning rise retrograde	2086 Sep 03 18:39 2087 Jan 03 03:33	1° Mp 47'32 18° Mp 54'31	
minimum elong	2081 Feb 22 10:23	4° <b>)</b> €27'52		opposition	2087 Mar 04 08:08	13° <b>m</b> ) 57'56	1°24'43
max. Earth dist.	2081 Feb 22 07:55	4° <b>)</b> € 26′24	5.99543 AU	min. Earth dist.	2087 Mar 04 12:14	13° <b>m</b> 56'36	4.42262 AU
morning rise	2081 Mar 07 11:27	7° <b>¥</b> 36′06		direct	2087 May 05 04:54	8° <b>m</b> 54'58	
retrograde	2081 Jul 17 01:35	27° <b>)</b> € 59'33	1000115	evening set	2087 Sep 08 23:32	26° m 30'39	6 1 1 TO 0 1 XX
opposition min. Earth dist.	2081 Sep 15 03:14	22° <b>升</b> 59′28	-1°32'47 3.96195 AU	max. Earth dist.	2087 Sep 21 06:58	29° <b>m</b> 09'52	6.44720 AU
direct	2081 Sep 14 16:25 2081 Nov 12 12:39	23 ★05 05 18°¥05'55	3.90193 AU	conjunction	2087 Sep 22 02:15	29° <b>m</b> 20'18	1°04'22
uncer	2082 Feb 12 09:08	0° <b>Υ</b>		minimum elong	2087 Sep 22 02:14	29° m) 20'17	1°04'22
evening set	2082 Mar 18 01:10	7° <b>Y</b> 48'46			2087 Sep 25 03:40	0∘ <b>⊽</b>	
				morning rise	2087 Oct 05 01:57	2° <b>ჲ</b> 08'30	
conjunction	2082 Mar 31 07:13	11° <b>Υ</b> 00'59		retrograde	2088 Feb 02 05:42	18° <b>≏</b> 54'05	1025120
minimum elong max. Earth dist.	2082 Mar 31 07:13 2082 Apr 01 13:32	11° <b>Y</b> '00'59 11° <b>Y</b> '19'21	1°04'53 5.94982 AU	opposition min. Earth dist.	2088 Apr 02 18:45 2088 Apr 03 15:52	14° <b>£</b> 00'30 13° <b>£</b> 53'42	1°35'20 4.45458 AU
morning rise	2082 Apr 01 13.32 2082 Apr 13 16:27	11 <b>γ</b> 1921 14° <b>Υ</b> 14'53	3.94982 AU	direct	2088 Jun 04 09:07	8° <b>£</b> 58'05	4.43436 AU
morning rise	2082 Jun 27 18:49	0°8		evening set	2088 Oct 08 20:21	26° <b>≏</b> 28'57	
retrograde	2082 Aug 24 02:28	4° <b>8</b> 55'35		max. Earth dist.	2088 Oct 19 23:31	28° <b>ჲ</b> 53'53	6.44164 AU
	2082 Oct 21 20:09	30° <b>ŖƳ</b>					
opposition	2082 Oct 22 20:05	29° <b>Υ</b> '51'53		conjunction	2088 Oct 21 16:41	29° <b>2</b> 16'18	1°02'44
min. Earth dist. direct	2082 Oct 21 15:12 2082 Dec 19 16:52	0° <b>8</b> 01'41 24° <b>Y</b> 57'02	3.96274 AU	minimum elong	2088 Oct 21 16:42 2088 Oct 25 00:57	29° <b>£</b> 16′18 0° <b>I</b> L	1°02'43
direct	2082 Dec 19 10.32 2083 Feb 14 07:51	0° <b>8</b>		morning rise	2088 Nov 03 10:33	2°M02'30	
evening set	2083 Apr 24 14:08	14° <b>8</b> 34'45		morning rise	2089 Jan 11 00:33	15°M	
C	2083 Apr 26 08:46	15° <b>8</b>		retrograde	2089 Mar 03 23:19	18°M55'10	
					2089 Apr 26 06:22	15°RM	
conjunction	2083 May 08 04:06	17° <b>8</b> 48'27		opposition	2089 May 03 18:05	14°M03'06	1°20'38
minimum elong max. Earth dist.	2083 May 08 04:09 2083 May 10 09:34	17° <b>8</b> 48'28 18° <b>8</b> 20'16		min. Earth dist. direct	2089 May 05 03:50 2089 Jul 05 11:27	13°M52'20 9°M02'03	4.41251 AU
morning rise	2083 May 21 20:33	21° <b>8</b> 03'18	3.99010 AU	direct	2089 Sep 10 03:28	15°M	
	2083 Jun 30 15:22	0°Щ		evening set	2089 Nov 08 10:58	26°M45'02	
retrograde	2083 Sep 29 14:38	11° <b>Ⅱ</b> 09'59		max. Earth dist.	2089 Nov 19 01:46	29°M06'05	6.36571 AU
min. Earth dist.	2083 Nov 26 16:32	6° <b>Ⅱ</b> 16'54	4.04928 AU				
opposition	2083 Nov 28 03:43	6°Ⅱ04'55	-0°55'59	conjunction	2089 Nov 21 03:53	29°M33'55	0°43'56
direct evening set	2084 Jan 25 10:03 2084 May 30 17:43	1° <b>Ⅱ</b> 07'15 20° <b>Ⅱ</b> 15'58		minimum elong	2089 Nov 21 03:55 2089 Nov 23 02:48	29°M33'56 0°⊀	0°43'56
evening set	2004 May 30 17.43	20 113 36		morning rise	2089 Dec 03 18:54	2° <b>×</b> <sup>7</sup> 22'07	
conjunction	2084 Jun 13 11:40	23° <b>Ⅱ</b> 26′05	-0°20'01	retrograde	2090 Apr 05 03:24	19° <b>∡</b> ′49'33	
minimum elong	2084 Jun 13 11:41	23° <b>Ⅱ</b> 26′06	0°20'00	opposition	2090 Jun 05 01:52	14° <b>∡</b> °57′26	0°42'54
max. Earth dist.	2084 Jun 15 16:27	23° <b>∏</b> 56'32	6.11448 AU	min. Earth dist.	2090 Jun 06 13:42	14° <b>∡</b> °46′01	4.30679 AU
morning rise	2084 Jun 27 06:49	26° <b>Ⅱ</b> 36'29		direct	2090 Aug 06 03:59	9° 🖈 58'32	
retrograde	2084 Jul 12 07:28 2084 Nov 01 16:04	0°ഇ 15° <b>ഇ</b> 37'46		evening set	2090 Dec 09 18:15 2090 Dec 17 20:51	28° <b>メ</b> 09'05 0°る	
min. Earth dist.	2084 Nov 01 16.04 2084 Dec 30 02:13	13 93746 10°9544'06	4.18603 AU	max. Earth dist.	2090 Dec 20 12:07		6.23852 AU
opposition	2084 Dec 31 07:37	10°934'07				5017	
asc. node	2085 Jan 09 18:29	9° <b>©</b> 18'12		conjunction	2090 Dec 22 10:23	1° <b>る</b> 02'44	0°11'51
direct	2085 Feb 28 15:47	5°933'34		minimum elong	2090 Dec 22 10:23	1°る02'44	0°11'50
evening set	2085 Jul 05 08:33	24°904'00		behind sun begin	2090 Dec 22 04:45	0°る59'31	
				behind sun end	2090 Dec 22 16:02	1° <b>る</b> 05'57	

	2001 I 04 02:02	2075(1)2		i. E	2007 I 02 10:04	15963(10)	4 20490 ATT
morning rise	2091 Jan 04 02:03	3° <b>る</b> 56'23		min. Earth dist.	2097 Jan 03 18:04	15°526'06	4.20489 AU
desc. node	2091 Apr 27 15:30 2091 May 09 14:32	22°る08'32 22°る21'57		direct	2097 Mar 05 09:48 2097 Jul 10 02:55	10°©16'10 28°©41'55	
retrograde opposition	2091 May 09 14.32 2091 Jul 09 09:04	22 <b>3</b> 2137 17° <b>3</b> 28'15	0°10'14	evening set	2097 Jul 10 02:33 2097 Jul 15 23:44	28 941 33 0°Ω	
min. Earth dist.	2091 Jul 10 13:32	17 <b>3</b> 2813			2097 Jul 13 23.44	0 00	
direct	2091 Jul 10 13:32 2091 Sep 08 08:02	17 <b>3</b> 1900 12° <b>3</b> 31'52	4.10370 AU	conjunction	2097 Jul 23 18:36	1° <b>Ω</b> 43'57	0°22'39
uncet	2092 Jan 05 21:14	0°≈		minimum elong	2097 Jul 23 18:35	1° <b>Ω</b> 43'56	0°22'39
evening set	2092 Jan 11 14:17	1°≈19'58		max. Earth dist.	2097 Jul 25 01:58	2°Ω01'24	6.27587 AU
max. Earth dist.	2092 Jan 23 04:40	4°≈03'54	6.09602 AU	morning rise	2097 Aug 06 09:11	4°Ω45'10	
					2097 Sep 25 08:10	15° <b>Ω</b>	
conjunction	2092 Jan 24 08:42	4° <b>≈</b> 20′28	-0°25'29	retrograde	2097 Dec 07 21:48	22° <b>Ω</b> 32'48	
minimum elong	2092 Jan 24 08:40	4° <b>≈</b> 20'27		opposition	2098 Feb 05 19:51	17° <b>Ω</b> 33'02	0°56'19
morning rise	2092 Feb 06 04:10	7° <b>≈</b> 21'47		min. Earth dist.	2098 Feb 05 07:42	17° <b>Ω</b> 37'04	4.33902 AU
-	2092 Mar 10 22:55	15° <b>≈</b>			2098 Feb 25 23:54	15°R <b>Ω</b>	
retrograde	2092 Jun 14 05:46	26° <b>≈</b> 55'55		direct	2098 Apr 07 15:46	12° <b>Ω</b> 30'32	
opposition	2092 Aug 13 17:27	21° <b>≈</b> 59′09	-1°03'25		2098 May 18 20:09	15° <b>Ω</b>	
min. Earth dist.	2092 Aug 14 02:17	21° <b>≈</b> 56′16	4.03373 AU		2098 Aug 10 16:36	0° <b>m</b>	
direct	2092 Oct 12 04:36	17° <b>≈</b> 04'57		evening set	2098 Aug 12 13:30	0° Mp 24'14	
	2093 Jan 17 14:38	0° <b>∀</b>					
evening set	2093 Feb 14 11:33	6° <b>∺</b> 29'05		conjunction	2098 Aug 25 22:40	3° Mp 18′44	0°51'36
				minimum elong	2098 Aug 25 22:38	3° Mp 18'43	0°51'35
conjunction	2093 Feb 27 11:05	9° <b>∺</b> 36'39	-0°55'17	max. Earth dist.	2098 Aug 26 02:12	3° Mp 20'40	6.39152 AU
minimum elong	2093 Feb 27 11:03	9° <b>∺</b> 36'38	0°55'17	morning rise	2098 Sep 08 05:23	6° Mp 11′55	
max. Earth dist.	2093 Feb 27 13:16	9° <b>∺</b> 37'58	5.98639 AU	retrograde	2099 Jan 07 09:22	23° Mp 15'07	
morning rise	2093 Mar 12 13:08	12° <b>)</b> 45′42		opposition	2099 Mar 08 14:17	18° <b>m</b> 19'05	1°27'42
	2093 Jun 06 10:42	$0^{\circ}\Upsilon$		min. Earth dist.	2099 Mar 08 21:05	18° Mp 16′52	4.42906 AU
retrograde	2093 Jul 22 08:59	3° <b>Y</b> 13'30		direct	2099 May 09 14:23	13°Mp 16'14	
	2093 Sep 06 16:50	30° <b>₹</b>			2099 Sep 09 09:05	0∘ <b>⊽</b>	
opposition	2093 Sep 20 09:38	28° <b> ★</b> 12'46		evening set	2099 Sep 13 08:35	0° <b>£</b> 51'05	
min. Earth dist.	2093 Sep 19 20:16		3.95873 AU	max. Earth dist.	2099 Sep 25 10:39	3° <b>≏</b> 27'31	6.44883 AU
direct	2093 Nov 17 17:08	23° <b>¥</b> 19′07			2000 0 26 10 15	20.0.4011.7	1005112
. ,	2094 Jan 22 16:49	0° <b>Υ</b>		conjunction	2099 Sep 26 10:15	3° <b>Ω</b> 40'17	1°05'12
evening set	2094 Mar 23 05:04	13° <b>Y</b> 02'04		minimum elong	2099 Sep 26 10:14	3° <b>£</b> 40'17	1°05'12
agniumation	2094 Apr 05 12:20	16° <b>Ƴ</b> 14'40	1904!27	morning rise	2099 Oct 09 09:10	6° <b>£</b> 28'07	
conjunction minimum elong	2094 Apr 05 12:20 2094 Apr 05 12:21	16° <b>Y</b> 14'40 16° <b>Y</b> 14'40		retrograde opposition	2100 Feb 06 12:46 2100 Apr 08 02:08	23° <b>£</b> 13'41 18° <b>£</b> 20'25	1°34'47
max. Earth dist.	2094 Apr 06 23:41	16° <b>Y</b> 36'01	5.95266 AU	min. Earth dist.	2100 Apr 08 02:08 2100 Apr 09 01:16	18° <b>2</b> 023	4.45172 AU
morning rise	2094 Apr 18 22:34	10 <b>↑</b> 30 01 19° <b>↑</b> 28'52	3.93200 AU	direct	2100 Apr 09 01:10 2100 Jun 09 17:32	13° <b>£</b> 12'38	4.43172 AU
morning risc	2094 Apri 18 22:34 2094 Jun 04 13:21	0° <b>8</b>		direct	2100 Juli 09 17:32 2100 Oct 10 06:25	0°M	
retrograde	2094 Aug 29 06:55	10° <b>8</b> 07'01		evening set	2100 Oct 10 00:23 2100 Oct 14 03:37	0°M50'14	
opposition	2094 Oct 27 23:04	5° <b>8</b> 03'00	-1°29'17	max. Earth dist.	2100 Oct 25 06:12	3°M15'07	6.43470 AU
min. Earth dist.	2094 Oct 26 16:58		3.97152 AU	man. Barm digt.	2100 000 20 00.12	3 110/13/07	0.131,0110
direct	2094 Dec 24 20:03	0° <b>8</b> 07'50	3.57102110	conjunction	2100 Oct 26 23:27	3°M37'37	1°01'03
	2095 Apr 09 11:55	15° <b>8</b>		minimum elong	2100 Oct 26 23:28	3°M37'38	1°01'03
evening set	2095 Apr 29 18:25	19° <b>8</b> 42'14		morning rise	2100 Nov 08 16:35	6°M23'52	
-	•			•	2100 Dec 20 16:49	15°M	
conjunction	2095 May 13 09:02	22° <b>8</b> 55'38	-0°48'34	retrograde	2101 Mar 09 08:40	23°M19'49	
minimum elong	2095 May 13 09:05	22° <b>8</b> 55'39	0°48'35	opposition	2101 May 09 04:58	18° <b>M</b> 27'54	1°16'35
max. Earth dist.	2095 May 15 14:18	23° <b>8</b> 27'12	6.00978 AU	min. Earth dist.	2101 May 10 14:28	18°M17'14	4.40213 AU
morning rise	2095 May 27 02:20	26° <b>8</b> 10'11			2101 Jun 08 07:47	15°RM₊	
	2095 Jun 12 15:12	$\Pi^{\circ}0$		direct	2101 Jul 10 20:21	13°M27'16	
retrograde	2095 Oct 04 09:44	16° <b>Ⅱ</b> 08'49			2101 Aug 12 11:00	15° <b>™</b>	
opposition	2095 Dec 02 23:44	11° <b>Ⅱ</b> 03'48			2101 Nov 08 06:55	0°⊀	
min. Earth dist.	2095 Dec 01 12:24	11° <b>Ⅱ</b> 15'51	4.06622 AU	evening set	2101 Nov 13 19:20	1° <b>≯</b> 12'48	
direct	2096 Jan 30 08:35	6° <b>Ⅱ</b> 05'40		max. Earth dist.	2101 Nov 24 09:30	3° <b>≯</b> 34'00	6.35284 AU
evening set	2096 Jun 04 17:58	25° <b>Ⅱ</b> 09'27			210137 25	40 = 0 = 0	00.40**
	2006 X 10 15 5		001.47.10	conjunction	2101 Nov 26 11:47	4°×702'03	0°40'06
conjunction	2096 Jun 18 12:09	28° <b>Ⅱ</b> 18'48		minimum elong	2101 Nov 26 11:48	4°×702'04	0°40'06
minimum elong	2096 Jun 18 12:10	28° <b>Ⅱ</b> 18'48	0°14'48	morning rise	2101 Dec 09 02:45	6° <b>₹</b> 50'44	
behind sun begin	2096 Jun 18 09:12	28° <b>Ⅱ</b> 17'06					
behind sun end	2096 Jun 18 15:08	28° <b>∏</b> 20'30	6 12220 ATT				
max. Earth dist.	2096 Jun 20 15:23	28° <b>∏</b> 48'14 0° <b>©</b>	6.13338 AU				
morning rise	2096 Jun 25 20:30 2096 Jul 02 07:02	1° <b>9</b> 28'13					
retrograde	2096 Jul 02 07:02 2096 Nov 06 05:57	20°920'15					
asc. node	2096 Nov 20 06:10	20°9500'32					
opposition	2097 Jan 04 20:53	20 \$000 32 15° \$517'01	0°06'24				
opposition.	20,, van 0, 20.55	1/01	5 5521				