retrograde opposition min. Earth dist. direct evening set	1600 Feb 06 16:13 1600 Apr 15 01:02 1600 Apr 14 23:28 1600 Jun 24 17:49 1600 Oct 07 12:45 1600 Oct 13 12:57	28° \LD 32'16 25° \LD 13'30 25° \LD 13'48 21° \LD 49'40 29° \LD 17'16 0° \LD	2°46'51 8.78434 AU	morning rise retrograde opposition min. Earth dist. direct evening set	1606 Jan 05 20:08 1606 Apr 16 13:43 1606 Jun 26 06:05 1606 Jun 26 11:16 1606 Sep 05 02:59 1606 Dec 14 21:53	0°る29'19 7°る28'23 4°る10'46 4°る09'49 0°る52'23 7°る51'36	0°46'15 9.07780 AU
conjunction	1600 Oct 24 11:07	1°M18'36	2°13'58	conjunction	1606 Dec 31 12:38	9° ප් 48'14	0°24'49
minimum elong	1600 Oct 24 11:07	1°M18'36	2°13'58	minimum elong	1606 Dec 31 12:39	9° ප 48'14	
max. Earth dist.	1600 Oct 24 12:15		10.83411 AU	max. Earth dist.	1606 Dec 31 06:30		11.06516 AU
morning rise	1600 Nov 10 05:23	3° ™ 18'45		morning rise	1607 Jan 17 03:47	11° る 45'01	
retrograde	1601 Feb 17 16:12	10°M25'18		retrograde	1607 Apr 28 12:12	18°る47'18	
opposition	1601 Apr 27 12:39	7°M07'24	2°40'06	opposition	1607 Jul 08 08:27	15° る 28'53	0°13'53
min. Earth dist.	1601 Apr 27 12:46	7°M07'23	8.88310 AU	min. Earth dist.	1607 Jul 08 13:25	15° る 27'58	9.04687 AU
direct	1601 Jul 07 12:16	3°M44'50		direct	1607 Sep 16 22:30	12° ろ 10'41	
evening set	1601 Oct 19 14:52	11°M04'56		desc. node evening set	1607 Dec 13 14:57 1607 Dec 26 05:49	17°る44'20 19°る10'00	
conjunction	1601 Nov 05 10:14	13°M04'22	2°05'56	evening set	1007 Dec 20 03.49	19 01000	
minimum elong	1601 Nov 05 10:14 1601 Nov 05 10:16	13°M04'22	2°05'55	conjunction	1608 Jan 11 21:06	21° る 07'15	-0°02'10
max. Earth dist.	1601 Nov 05 10:10		10.92536 AU	minimum elong	1608 Jan 11 21:07	21° る 07'15	0°02'11
max. Lattii dist.	1601 Nov 21 16:38	15°M	10.72330 AC	behind sun begin	1608 Jan 11 14:08	21° る 05'13	0 02 11
morning rise	1601 Nov 22 02:16	15°M02'49		behind sun end	1608 Jan 12 04:05	21°る09'17	
retrograde	1602 Mar 01 13:00	22°M04'50		max. Earth dist.	1608 Jan 11 15:24		11.02320 AU
opposition	1602 May 09 20:19	18°M47'33	2°26'51	morning rise	1608 Jan 28 13:24	23° る 04'52	11.02020110
min. Earth dist.	1602 May 09 21:20	18°M47'21	8.96580 AU	. 8	1608 Apr 24 00:06	0° ≈	
direct	1602 Jul 20 00:21	15°M26'10		retrograde	1608 May 09 14:40	0°≈11'52	
evening set	1602 Oct 31 09:41	22°M39'31		C	1608 May 25 07:24	30°Rる	
-				opposition	1608 Jul 19 12:37	26° る 52'26	-0°19'18
conjunction	1602 Nov 17 02:58	24°M37'32	1°52'51	min. Earth dist.	1608 Jul 19 17:24	26° る 51'33	8.99401 AU
minimum elong	1602 Nov 17 03:00	24°M37'33	1°52'51	direct	1608 Sep 27 17:35	23° る 34'08	
max. Earth dist.	1602 Nov 17 00:59	24°M36'57	10.99885 AU		1608 Dec 31 15:11	0° ≈	
morning rise	1602 Dec 03 17:31	26°M34'46		evening set	1609 Jan 05 16:43	0° ≈ 35'06	
	1603 Jan 04 12:22	0°⊀					
retrograde	1603 Mar 13 06:55	3° х 33′40		conjunction	1609 Jan 22 08:42	2° ≈ 33'19	-0°29'12
opposition	1603 May 22 00:49	0° ≯ 16'40	2°07'57	minimum elong	1609 Jan 22 08:41	2° ≈ 33'19	
min. Earth dist.	1603 May 22 02:18	0° ∡ 16′24	9.02886 AU	max. Earth dist.	1609 Jan 22 02:34		10.96017 AU
	1603 May 25 18:59	30°RM		morning rise	1609 Feb 08 02:34	4° ≈ 32'08	
direct	1603 Aug 01 07:09	26°M56'21		retrograde	1609 May 21 22:43	11°≈45'16	
	1603 Oct 04 00:37	0° 🗷		opposition	1609 Jul 31 20:00	8°≈24'37	
evening set	1603 Nov 11 22:43	4° ≯ 04'03		min. Earth dist.	1609 Aug 01 01:01	8°≈23'41	8.92135 AU
. ,.	1702 N 20 14 42	60 7 01106	1025126	direct	1609 Oct 09 13:48	5°≈05'59	
conjunction	1603 Nov 28 14:43		1°35'26	evening set	1610 Jan 17 07:57	12° ≈ 10′08	
minimum elong max. Earth dist.	1603 Nov 28 14:45 1603 Nov 28 12:13	6° ₹ 01'06	1°35'27 11.05114 AU	conjunction	1610 Feb 03 00:56	14° ≈ 09'37	0°55!26
morning rise	1603 Dec 15 04:27	7° 🖈 57'33	11.03114 AO	minimum elong	1610 Feb 03 00:54	14°≈09'36	
retrograde	1604 Mar 24 01:36	14° 🗷 54'53		max. Earth dist.	1610 Feb 02 18:16		10.87853 AU
opposition	1604 Jun 02 03:12	11° × ⁷ 37'58	1°44'15	max. Earth dist.	1610 Feb 10 01:00	15° ≈	10.07033710
min. Earth dist.	1604 Jun 02 05:47	11° ∡ ³37'29	9.06923 AU	morning rise	1610 Feb 19 20:48	16° ≈ 09'58	
direct	1604 Aug 12 08:49	8° ≯ 18'31		retrograde	1610 Jun 03 10:58	23° ≈ 30'34	
evening set	1604 Nov 22 08:03	15° ₹ 21'56		opposition	1610 Aug 13 07:12	20° ≈ 08'32	-1°23'31
Č				min. Earth dist.	1610 Aug 13 12:29	20° ≈ 07'33	8.83164 AU
conjunction	1604 Dec 08 23:08	17° ∡ 18′26	1°14'26	direct	1610 Oct 21 13:16	16° ≈ 49'22	
minimum elong	1604 Dec 08 23:10	17° ∡ 18′27	1°14'26	evening set	1611 Jan 29 05:17	23° ≈ 58′12	
max. Earth dist.	1604 Dec 08 19:04	17° ∡ 17'15	11.07979 AU				
morning rise	1604 Dec 25 12:46	19° ∡ 14'35		conjunction	1611 Feb 14 23:52	25° ≈ 59'18	-1°19'47
retrograde	1605 Apr 04 18:51	26° ⊀ 11'58		minimum elong	1611 Feb 14 23:49	25° ≈ 59'17	1°19'46
opposition	1605 Jun 14 04:35	22° ₹ 54'52	1°16'42	max. Earth dist.	1611 Feb 14 17:57		10.78130 AU
min. Earth dist.	1605 Jun 14 08:48	22° ₹ 54'05	9.08549 AU	morning rise	1611 Mar 03 21:55	28° ≈ 01'28	
direct	1605 Aug 24 05:37	19° ∡ °36′05			1611 Mar 21 02:12	0° ∀	
evening set	1605 Dec 03 15:17	26° ₹ 36'40		retrograde	1611 Jun 16 06:48	5°) (30'37	
	16050	200 = 2	005012	opposition	1611 Aug 25 22:48	2°) €07'08	
conjunction	1605 Dec 20 05:53	28° 🗷 33'02	0°50'36	min. Earth dist.	1611 Aug 26 03:21		8.72822 AU
minimum elong	1605 Dec 20 05:55 1605 Dec 20 00:06	28° ₹33'03	0°50'37 11.08432 AU	direct	1611 Sep 25 02:36 1611 Nov 02 18:04	30°R≈ 28°≈47'14	
max. Earth dist.		/A X'1117()	LL U0437. AU	OHECL	TOTAL INOVITED IX 104	/A 244/14	
	1606 Jan 01 14:46	0°る	11.00.02.110	ancet	1611 Dec 10 08:37	0° ∀	

evening set	1612 Feb 10 10:02	6°) €02'07	conjunction	1618 May 18 19:54	27° 8 33'38	-1°47'41
			minimum elong	1618 May 18 19:58	27° 8 33'39	1°47'41
conjunction	1612 Feb 27 06:43	8° ∺ 05'10 -1°41	'06 max. Earth dist.	1618 May 18 23:46	27° 8 34'53	10.06237 AU
minimum elong	1612 Feb 27 06:40	8° ∺ 05'10 1°41	'06 morning rise	1618 Jun 05 19:26	29° 8 53'04	
max. Earth dist.	1612 Feb 27 02:06	8° ∺ 03'45 10.67	7214 AU	1618 Jun 06 17:14	Π °0	
morning rise	1612 Mar 15 07:13	10°) €09'27	retrograde	1618 Sep 20 11:09	8° Ⅱ 14′20	
retrograde	1612 Jun 28 12:10	17°) (47′57	opposition	1618 Nov 26 23:52	4° ∏ 44'24	
opposition	1612 Sep 06 19:51	14° ∺ 23'00 -2°16		1618 Nov 26 20:14		8.03950 AU
min. Earth dist.	1612 Sep 06 23:06	14° ¥ 22′22 8.61	511 AU direct	1619 Feb 01 09:08	1° Ⅱ 17′05	
direct	1612 Nov 14 01:54	11°) €02'14	evening set	1619 May 15 21:18	9° Ⅱ 26′13	
evening set	1613 Feb 21 23:21	18° ∺ 24'18				
			conjunction	1619 Jun 02 21:44	11° Ⅱ 46′26	
conjunction	1613 Mar 10 22:36	20° ∺ 29'35 -1°58	0	1619 Jun 02 21:48	11° Ⅱ 46′27	
minimum elong	1613 Mar 10 22:33	20° ∺ 29'35 1°58		1619 Jun 03 03:04		10.02179 AU
max. Earth dist.	1613 Mar 10 18:59	20° ∺ 28′28 10.55	0	1619 Jun 21 00:17	14° Ⅱ 07'21	
morning rise	1613 Mar 28 02:05	22° 升 36′15	retrograde	1619 Oct 05 03:22	22° Ⅱ 28′23	
	1613 Jun 19 23:15	0° Ƴ	opposition	1619 Dec 11 05:51	18° ∏ 58'47	
retrograde	1613 Jul 12 00:01	0° Ƴ 24'27	min. Earth dist.	1619 Dec 11 01:18		8.01280 AU
	1613 Aug 03 02:23	30° ₹ ₩	direct	1620 Feb 15 16:25	15° Ⅱ 30′38	
opposition	1613 Sep 19 22:49	26° ¥ 58′06 -2°34	8	1620 May 29 23:53	23° Ⅱ 43'45	
min. Earth dist.	1613 Sep 20 00:55		720 AU			
direct	1613 Nov 26 16:16	23° ∺ 36′19	conjunction	1620 Jun 17 03:14	26° Ⅱ 04'59	
	1614 Feb 25 18:27	0° Ƴ	minimum elong	1620 Jun 17 03:17	26° Ⅱ 05'00	
evening set	1614 Mar 06 22:30	1° Y ′06'32	max. Earth dist.	1620 Jun 17 09:28		10.01018 AU
			morning rise	1620 Jul 05 07:32	28° Ⅱ 26'32	
conjunction	1614 Mar 24 00:52	3° Y 14'19 -2°10		1620 Jul 17 17:39	0 \circ \odot	
minimum elong	1614 Mar 24 00:51	3° Y 14'18 2°10	· ·	1620 Oct 18 18:00	6° © 44'37	
max. Earth dist.	1614 Mar 23 21:36	3° Y 13'17 10.43	3707 AU opposition	1620 Dec 24 12:04	3° © 15'41	
morning rise	1614 Apr 10 07:57	5° Y 23'35	min. Earth dist.	1620 Dec 24 07:08		8.01571 AU
retrograde	1614 Jul 25 19:29	13° Y 21'16		1621 Feb 13 21:57	30°RⅡ	
opposition	1614 Oct 03 07:44	9° Y 53'38 -2°45		1621 Mar 01 04:26	29° Ⅱ 46'51	
min. Earth dist.	1614 Oct 03 09:20		006 AU	1621 Mar 16 12:31	0_{\circ} වෙ	
direct	1614 Dec 09 14:10	6° Ƴ 30'44	evening set	1621 Jun 14 04:25	8° © 01'49	
evening set	1615 Mar 20 07:50	14° Ƴ 09'37				
		••	conjunction	1621 Jul 02 09:08	10° © 23'09	
conjunction	1615 Apr 06 14:05	16° Y 20'07 -2°15		1621 Jul 02 09:09	10° © 23'09	
minimum elong	1615 Apr 06 14:05	16° Y 20'07 2°15		1621 Jul 02 15:38		10.02814 AU
max. Earth dist.	1615 Apr 06 11:46	16° Y 19'23 10.32	0	1621 Jul 20 13:36	12° © 44'22	
morning rise	1615 Apr 24 01:11	18° Ƴ 32'08	retrograde	1621 Nov 02 03:15	20° © 57'05	
retrograde	1615 Aug 08 22:27	26° Ƴ 38′28	opposition	1622 Jan 07 16:48	17°529'04	
opposition	1615 Oct 16 22:38	23° Y 09'49 -2°48		1622 Jan 07 11:58	17° © 30'04	8.04764 AU
min. Earth dist.	1615 Oct 16 23:32		971 AU direct	1622 Mar 15 18:53	13°959'50	
direct	1615 Dec 22 19:16	19° Ƴ 45'43	asc. node	1622 Mar 26 09:44	14°506'08	
evening set	1616 Apr 02 03:24	27° Ƴ 33'21	evening set	1622 Jun 29 07:55	22° © 14'25	
	1616 4 10 14 07	2000047120 2012		1700 1 1 17 10 11	24052450	0000157
conjunction	1616 Apr 19 14:07	29° Υ 46'38 -2°13	,	1622 Jul 17 12:11	24°534'50	0°09'57
minimum elong	1616 Apr 19 14:09	29° Y 46'38 2°13 29° Y 46'28 10.21	0	1622 Jul 17 12:11	24°534'50	0°09'57
max. Earth dist.	1616 Apr 19 13:37	0° 8	2	1622 Jul 17 06:17 1622 Jul 17 18:04	24°532'57	
	1616 Apr 21 07:49	2° 8 01'23	behind sun end	1622 Jul 17 18:04 1622 Jul 17 18:14	24°536'44	10.07274 ATT
morning rise	1616 May 07 05:28	_	max. Earth dist.			10.07374 AU
retrograde	1616 Aug 22 06:59	10° 8 14'57	morning rise	1622 Aug 04 14:59	26°954'45	
opposition	1616 Oct 29 18:57 1616 Oct 29 18:33	6° 8 45'31 -2°41 6° 8 45'36 8.17		1622 Aug 30 04:23	0° Ω 5° Ω 00'18	
min. Earth dist.			Č	1622 Nov 16 05:38		0922120
direct	1617 Jan 04 09:05	3° 8 20'16	opposition	1623 Jan 21 18:27	1° Ω 33'26	
evening set	1617 Apr 16 08:59	11° 8 16'13	min. Earth dist.	1623 Jan 21 13:48 1623 Feb 10 10:47	1° № 34'23 30° №	8.10558 AU
:	1617 M 04 00-25	120 422111 2004	U25 4:			
conjunction	1617 May 04 00:35	13° 8 32'11 -2°04		1623 Mar 30 08:30	28°504'05	
minimum elong	1617 May 04 00:37	13° 8 32'12 2°04		1623 May 16 13:38	0°Ω 6°Ω16'13	
max. Earth dist.	1617 May 04 02:21	13° 8 32'46 10.12	2911 AU evening set	1623 Jul 14 07:16	6° Ω 16'13	
	1617 May 15 08:51	15° 8		1622 4 01 00 26	00 02 415 5	0042117
morning rise	1617 May 21 20:11	15° 8 49'29	conjunction	1623 Aug 01 09:26	8° Ω 34'55	0°42'16
retrograde	1617 Sep 05 19:33	24° 8 08'11	minimum elong	1623 Aug 01 09:24	8° Ω 34'54	
opposition	1617 Nov 12 19:43	20° 8 38'19 -2°25		1623 Aug 01 14:50		10.14290 AU
min. Earth dist.	1617 Nov 12 17:39	20° 8 38'44 8.09	392 AU morning rise	1623 Aug 19 08:59	10° Ω 52'44	
direct	1618 Jan 18 06:13	17° 8 11'58		1623 Sep 23 18:23	15° Ω	
evening set	1618 Apr 30 23:31	25° 8 15'15	retrograde	1623 Nov 30 01:29	18° Ω 50'06	1011112
			opposition	1624 Feb 04 16:02	15° Ω 24'30	1-11-13

min. Earth dist.	1624 Feb 04 11:28 1624 Feb 09 16:42	15° Ω 25'26 15°R Ω	8.18472 AU	min. Earth dist.	1630 Apr 22 10:46 1630 May 24 01:20	2°M11'54 30°R ≏	8.82674 AU
direct	1624 Apr 12 18:43	11° Ω 55'23		direct	1630 Jul 02 09:49	28° ≙ 48'18	
	1624 Jun 12 19:16	15° Ω		. ,	1630 Aug 10 01:56	0°M	
evening set	1624 Jul 27 23:58	20° Ω 03′22		evening set	1630 Oct 14 18:20	6°M12'13	
conjunction	1624 Aug 14 22:44	22° Ω 19'44		conjunction	1630 Oct 31 15:11	8°M12'38	2°10'06
minimum elong	1624 Aug 14 22:41	22° Ω 19'43	1°11'40	minimum elong	1630 Oct 31 15:12	8°M12'39	2°10'05
max. Earth dist.	1624 Aug 15 03:39		10.23056 AU	max. Earth dist.	1630 Oct 31 15:07		10.87099 AU
morning rise	1624 Sep 01 17:49	24° Ω 34'55		morning rise	1630 Nov 17 08:10	10°M11'58	
. 1	1624 Oct 21 08:19	0° Mp			1631 Jan 03 00:19	15°M	
retrograde	1624 Dec 12 15:18	2° m/23'37		retrograde	1631 Feb 24 19:30	17°M16'26	
annagition	1625 Feb 04 15:29	30°R Ω 28° Ω 59'24	1044157	opposition	1631 Apr 20 23:40 1631 May 04 20:57	15°RM 13°M58'25	2022127
opposition min. Earth dist.	1625 Feb 17 08:46 1625 Feb 17 04:27	28° ∂ (39°24 29° Ω 00'16	8.28012 AU	min. Earth dist.	1631 May 04 20:37	13°M58'23	2°33'27 8.91410 AU
direct	1625 Apr 26 23:57	25° Ω 30'49	8.28012 AU	direct	1631 Jul 14 23:34	10°M36'03	8.91410 AU
direct	1625 Jul 11 17:35	0° m		uncet	1631 Sep 30 12:44	15°M	
evening set	1625 Aug 11 08:32	3°m/33'14		evening set	1631 Oct 26 16:28	17°ML52'51	
-	-			_			
conjunction	1625 Aug 29 02:53	5° ™ 46'50	1°36'33	conjunction	1631 Nov 12 10:51	19° M 51'39	1°59'09
minimum elong	1625 Aug 29 02:49	5° m 46'49	1°36'33	minimum elong	1631 Nov 12 10:53	19° M 51'40	1°59'09
max. Earth dist.	1625 Aug 29 07:22	•	10.33212 AU	max. Earth dist.	1631 Nov 12 09:45	19°M51'20	10.95045 AU
morning rise	1625 Sep 15 16:46	7° m 59'02		morning rise	1631 Nov 29 01:59	21°M49'34	
retrograde	1625 Dec 25 21:05	15° Mp 38'55	2012111	retrograde	1632 Mar 07 13:43	28°M50'14	2017/55
opposition min. Earth dist.	1626 Mar 02 20:14 1626 Mar 02 16:33	12° Mp 16'06 12° Mp 16'50	2°12'11 8.38722 AU	opposition min. Earth dist.	1632 May 16 02:53	25°M32'38 25°M32'17	2°16'55 8.98472 AU
direct	1626 May 11 00:29	8° Mp 48'16	8.38722 AU	direct	1632 May 16 04:41 1632 Jul 26 07:42	23 IIL32 17 22°Ml11'17	6.96472 AU
evening set	1626 Aug 25 07:22	16° Mp 43'55		evening set	1632 Nov 06 08:14	29°M22'00	
e vening sec	1020 Hug 25 07.22	10 11/15 55		evening sec	1632 Nov 11 18:48	0° ₹	
conjunction	1626 Sep 11 20:46	18° m 54'31	1°55'49				
minimum elong	1626 Sep 11 20:43	18° m 54'31	1°55'49	conjunction	1632 Nov 23 00:46	1° √ 19'36	1°43'33
max. Earth dist.	1626 Sep 12 00:37	18° m 55'43	10.44286 AU	minimum elong	1632 Nov 23 00:48	1° ∡ 19'37	1°43'33
morning rise	1626 Sep 29 05:20	21°Mp03'41		max. Earth dist.	1632 Nov 22 21:59	1° ∡ 18'47	11.01189 AU
retrograde	1627 Jan 07 18:55	28° m 34'57		morning rise	1632 Dec 09 14:58	3° х 16′33	
opposition	1627 Mar 16 02:18	25° Mp 13'26	2°31'54	retrograde	1633 Mar 19 07:25	10° ≯ 14'54	
min. Earth dist.	1627 Mar 15 23:52	25° m 13'55	8.50093 AU	opposition	1633 May 28 06:19	6° ₹ 57'28	1°55'11
direct	1627 May 24 18:53	21°Mp46'33		min. Earth dist.	1633 May 28 09:02	6° ≯ 56'58	9.03600 AU
evening set	1627 Sep 07 19:29	29° m 34'31		direct	1633 Aug 07 12:39	3° ₹ 37'05	
	1627 Sep 11 07:30	0∘ ত		evening set	1633 Nov 17 19:03	10° ∡ 42'49	
conjunction	1627 Sep 25 03:53	1° ≏ 42'09	2°08'50	conjunction	1633 Dec 04 10:28	12° ∡ ³39'40	1°24'00
minimum elong	1627 Sep 25 03:51	1° ≏ 42'09	2°08'50	minimum elong	1633 Dec 04 10:30	12° ∡ ³39'41	1°24'00
max. Earth dist.	1627 Sep 25 06:15	1° - 42'53	10.55745 AU	max. Earth dist.	1633 Dec 04 06:59	12° ≯ 38'38	11.05307 AU
morning rise	1627 Oct 12 07:33	3° ≏ 48'22		morning rise	1633 Dec 21 00:19	14° ₰ ³36′04	
retrograde	1628 Jan 20 09:47	11° ≏ 11'32		retrograde	1634 Mar 31 00:28	21° х 33'39	
opposition	1628 Mar 28 02:39	7° £ 51'11	2°43'41	opposition	1634 Jun 09 08:06	18° ₰ 16'09	1°29'11
min. Earth dist.	1628 Mar 28 01:19	7° £ 51′26	8.61566 AU	min. Earth dist.	1634 Jun 09 10:39	18° ₹ 15'41	9.06611 AU
direct	1628 Jun 06 06:12	4° £ 25'22		direct	1634 Aug 19 12:20	14° 🖈 56'37	
evening set	1628 Sep 19 21:04	12° ≏ 05'14		evening set	1634 Nov 29 02:51	21° ≯ 58'39	
conjunction	1628 Oct 07 00:53	14° ≙ 10'07	2°15'25	conjunction	1634 Dec 15 17:49	23° ∡ 55′10	1°01'18
minimum elong	1628 Oct 07 00:52	14° ≏ 10′07	2°15'25	minimum elong	1634 Dec 15 17:51	23° х 55'10	1°01'19
max. Earth dist.	1628 Oct 07 01:37	14° ≙ 10′21	10.67036 AU	max. Earth dist.	1634 Dec 15 14:36	23° ≯ 54'13	11.07246 AU
morning rise	1628 Oct 24 00:17	16° ≙ 13'39		morning rise	1635 Jan 01 07:45	25° ₹ 51'27	
retrograde	1629 Jan 31 16:34	23° ₽ 29'29			1635 Feb 10 06:32	0°ಕ	
opposition	1629 Apr 09 21:23	20° ≙ 10'07		retrograde	1635 Apr 11 20:01	2° る 49'48	
min. Earth dist.	1629 Apr 09 20:40	20° £ 10'15	8.72590 AU	*.*	1635 Jun 15 00:38	30°₹ ⋌ 7	0050151
direct	1629 Jun 19 11:22	16° £ 45'25		opposition	1635 Jun 21 09:10	29° 🗷 32'01	0°59'51
evening set	1629 Oct 02 12:25	24° ≙ 17'11		min. Earth dist. direct	1635 Jun 21 11:55 1635 Aug 31 09:28	29° ₹31'30 26° ₹13'08	9.07399 AU
conjunction	1629 Oct 19 12:22	26° ≙ 19'38	2°15'42	unect	1635 Aug 31 09:28 1635 Nov 10 11:17	26°×13'08	
minimum elong	1629 Oct 19 12:22	26° £ 19'38	2°15'42	evening set	1635 Nov 10 11:17	0 る 3°る12'55	
max. Earth dist.	1629 Oct 19 12:22 1629 Oct 19 12:19		10.77639 AU	croming set	1030 200 10 07.24	5 1233	
morning rise	1629 Nov 05 08:10	28° ⊆ 20'51		conjunction	1635 Dec 27 00:13	5° る 09'29	0°36'16
<i>3</i>	1629 Nov 19 15:46	0°M		minimum elong	1635 Dec 27 00:14	5° る 09'29	0°36'16
retrograde	1630 Feb 12 19:41	5°M30'24		max. Earth dist.	1635 Dec 26 20:21		11.06933 AU
opposition	1630 Apr 22 11:18	2°ML11'48	2°43'56	morning rise	1636 Jan 12 14:51	7° ට 06'02	

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retrograde	1636 Apr 22 16:35	14° る 06'40		minimum elong	1642 Mar 05 15:52	15°) 12'36	
opposition	1636 Jul 02 10:49	10° る 48'24	0°28'12	max. Earth dist.	1642 Mar 05 11:44		10.63748 AU
min. Earth dist.	1636 Jul 02 14:28	10° る 47'44	9.05934 AU	morning rise	1642 Mar 22 17:56	17° ₩ 17'48	
direct	1636 Sep 11 03:19	7° る 29'58		retrograde	1642 Jul 06 06:54	25°) €00'12	
evening set	1636 Dec 20 16:24	14° る 29'02		opposition	1642 Sep 14 11:20	21°) 35′12	-2°26'45
				min. Earth dist.	1642 Sep 14 14:25	21°) 34′36	8.58085 AU
conjunction	1637 Jan 06 07:18	16° පි 25'56	0°09'47	direct	1642 Nov 21 10:52	18° ∺ 14'35	
minimum elong	1637 Jan 06 07:18	16° පි 25'56	0°09'46	evening set	1643 Mar 01 12:06	25°) 39'38	
behind sun begin	1637 Jan 06 01:33	16° පි 24'16					
behind sun end	1637 Jan 06 13:03	16° ප 27'37		conjunction	1643 Mar 18 12:48	27°) 45′50	-2°05'20
max. Earth dist.	1637 Jan 06 02:12	16° පි 24'27	11.04377 AU	minimum elong	1643 Mar 18 12:46	27°) 45′49	2°05'20
morning rise	1637 Jan 22 23:06	18° る 23'08		max. Earth dist.	1643 Mar 18 09:40	27°) 44'51	10.52150 AU
retrograde	1637 May 04 15:16	25° る 27'39		morning rise	1643 Apr 04 17:58	29°) 53′27	
desc. node	1637 May 21 19:40	25° ප 13'34			1643 Apr 05 15:30	$0^{\circ}\mathbf{\Upsilon}$	
opposition	1637 Jul 14 13:59	22° る 08'40	-0°04'44	retrograde	1643 Jul 19 21:57	7° Ƴ 45'18	
min. Earth dist.	1637 Jul 14 18:17	22° る 07'52	9.02273 AU	opposition	1643 Sep 27 16:29	4° Υ 18'58	-2°41'12
direct	1637 Sep 22 22:23	18° ප 50'26		min. Earth dist.	1643 Sep 27 18:42	4° Υ 18'32	8.46361 AU
evening set	1638 Jan 01 01:29	25° る 50'17		direct	1643 Dec 04 05:15	0° Ƴ 57'17	
C				evening set	1644 Mar 13 15:47	8° Ƴ 30'41	
conjunction	1638 Jan 17 17:00	27°る47'57	-0°17'22	C			
minimum elong	1638 Jan 17 16:59	27° る 47'56	0°17'23	conjunction	1644 Mar 30 20:05	10° Ƴ 39'29	-2°13'42
max. Earth dist.	1638 Jan 17 12:06		10.99674 AU	minimum elong	1644 Mar 30 20:05	10° Ƴ 39'29	
morning rise	1638 Feb 03 10:11	29° ♂ 46'06		max. Earth dist.	1644 Mar 30 17:56		10.40388 AU
	1638 Feb 05 10:13	0° ≈		morning rise	1644 Apr 17 04:55	12° Ƴ 49'47	
retrograde	1638 May 16 20:53	6°≈55'59		retrograde	1644 Aug 01 21:31	20° Y 50'45	
opposition	1638 Jul 26 19:34	3°≈36'03	-0°37'50	opposition	1644 Oct 10 03:43	17° Y 23'12	-2°47'49
min. Earth dist.	1638 Jul 26 23:25	3°≈35'20	8.96551 AU	min. Earth dist.	1644 Oct 10 04:43	17° Υ 23'00	
direct	1638 Oct 04 19:21	0°≈17'49	0.90331710	direct	1644 Dec 16 05:18	14° Υ 00'19	0.54700710
evening set	1639 Jan 12 14:15	7°≈19'56		evening set	1645 Mar 27 05:38	21° Υ 42'27	
evening set	1037 Jun 12 14.13	7 7017 30		evening set	1043 Will 27 03.30	21 422/	
conjunction	1639 Jan 29 06:49	9° ≈ 18'41	-0°44'03	conjunction	1645 Apr 13 14:06	23° Y 54'01	-2°15'17
minimum elong	1639 Jan 29 06:47	9° ≈ 18'41		minimum elong	1645 Apr 13 14:07	23° Y '54'02	
max. Earth dist.	1639 Jan 29 02:42		10.92983 AU	max. Earth dist.	1645 Apr 13 12:42		10.29139 AU
morning rise	1639 Feb 15 01:36	11° ≈ 18'09		morning rise	1645 May 01 03:07	26° Y 07'06	
morning rise	1639 Mar 21 08:37	15° ≈		morning rise	1645 Jun 03 12:58	0°8	
retrograde	1639 May 29 07:19	18° ≈ 34'42		retrograde	1645 Aug 16 03:25	4° 8 16'04	
opposition	1639 Aug 08 04:28	15°≈13'39	-1°09'55	opposition	1645 Oct 23 20:41	0° 8 47'30	-2°45'35
min. Earth dist.	1639 Aug 08 07:37	15°≈13'04		min. Earth dist.	1645 Oct 23 20:52		8.24061 AU
iiiii. Lattii dist.	1639 Aug 11 05:32	15°R≈	0.00702 AU	iiiii. Lattii dist.	1645 Nov 02 19:06	30°RΥ	0.24001 AC
direct	1639 Aug 11 05:32 1639 Oct 16 16:21	13 ‰ 11°≈55'12		direct	1645 Dec 29 13:35	27° Y 23′19	
direct	1639 Dec 17 20:12	11 ≈33 12 15°≈		unect	1646 Feb 22 03:54	0° 8	
avanina aat	1640 Jan 24 08:29	13 ≈ 19°≈01'07		avanina aat	1646 Apr 10 05:48	5° 8 14'04	
evening set	1040 Jan 24 08.29	19 > 0107		evening set	1040 Apr 10 03.48	3 01404	
conjunction	1640 Feb 10 02:15	21° ≈ 01'14	-1°09'18	conjunction	1646 Apr 27 18:53	7° 8 28'26	-2°09'29
minimum elong	1640 Feb 10 02:13	21° ≈ 01'14		minimum elong	1646 Apr 27 18:55	7° 8 28'27	
max. Earth dist.	1640 Feb 09 22:09		10.84541 AU	max. Earth dist.	1646 Apr 27 18:15		10.19099 AU
morning rise	1640 Feb 26 23:00	23° ≈ 02'18		morning rise	1646 May 15 12:21	9° 8 44'12	
	1640 May 17 15:34	0°) €		8	1646 Jul 01 10:16	15° 8	
retrograde	1640 Jun 10 00:23	0°) €26'41		retrograde	1646 Aug 30 13:04	17° 8 59'22	
	1640 Jul 03 13:08	30°R≈			1646 Oct 31 14:53	15°R₩	
opposition	1640 Aug 19 17:35	27°≈04'25	-1°39'42	opposition	1646 Nov 06 18:28	14° 8 30'04	-2°33'58
min. Earth dist.	1640 Aug 19 20:38		8.79784 AU	min. Earth dist.	1646 Nov 06 18:05		8.14856 AU
direct	1640 Oct 27 17:25	23°≈45'28	0.77704710	direct	1647 Jan 12 06:29	11° 8 04'33	0.14030710
ancet	1641 Jan 27 08:43	0° ∀		uncet	1647 Mar 21 03:24	15° 8	
evening set	1641 Feb 04 09:28	0° ¥ 56'35		evening set	1647 Apr 24 15:18	19° 8 03'15	
evening set	1041100 04 07.20	0 7(3033		evening set	1047 Apr 24 15.10	17 003 13	
conjunction	1641 Feb 21 04:50	2° ₩ 58'25	-1°32'02	conjunction	1647 May 12 09:11	21° 8 20'13	-1°56'11
minimum elong	1641 Feb 21 04:48	2°) 58′24		minimum elong	1647 May 12 09:14	21° 8 20'14	
max. Earth dist.	1641 Feb 21 00:17		10.74675 AU	max. Earth dist.	1647 May 12 09:37		10.10896 AU
morning rise	1641 Mar 10 04:03	5° ₩ 01'24	,. 110	morning rise	1647 May 30 06:53	23° 8 38'23	,
retrograde	1641 Jun 23 00:51	12°\(\frac{1}{3}\)34'30			1647 Jul 28 11:14	0° I	
opposition	1641 Sep 01 11:48	9° H 10'54	-2°05'47	retrograde	1647 Sep 14 02:09	1° ∏ 57'28	
min. Earth dist.	1641 Sep 01 15:04		8.69368 AU	10.001440	1647 Nov 01 10:02	30°R 8	
direct	1641 Nov 08 22:38	5°) 51'14	2.0,200110	opposition	1647 Nov 20 20:17	28° 8 27'45	-2°13'06
evening set	1642 Feb 16 18:13	13° ¥ 08'45		min. Earth dist.	1647 Nov 20 20:17		8.07751 AU
3.4	10.2100 10 10.13	15 /(00 45		direct	1648 Jan 26 06:06	25° 8 00'58	5.5,751710
conjunction	1642 Mar 05 15:54	15° ¥ 12'37	-1°51'05	411000	1648 Apr 12 18:10	0°II	
2011/411/41011	-0.2ui 00 10.0T	10 /(123)			10.011p1 12 10.10	· 	

evening set	1648 May 08 08:34	3° II 06'23		direct evening set	1654 Apr 20 16:05 1654 Aug 04 24:00	19° Ω 22'12 27° Ω 27'38	
conjunction	1648 May 26 06:56	5° Ⅱ 25'31	1°35'40	evening set	1034 Aug 04 24.00	21 062130	
minimum elong	1648 May 26 07:00	5° Π 25'32		conjunction	1654 Aug 22 20:28	29° Ω 42'40	1°25'21
max. Earth dist.	1648 May 26 09:03		10.05050 AU	minimum elong	1654 Aug 22 20:25	29° Ω 42'39	1°25'21
morning rise	1648 Jun 13 08:13	7° ∏ 45'34	10.03030 AU	max. Earth dist.	1654 Aug 23 00:59		10.27145 AU
•	1648 Sep 27 16:44	7 Д 43 34 16° Д 05'57		max. Earm dist.	=	0° m)	10.27143 AU
retrograde	-		1042154		1654 Aug 25 03:05	-	
opposition	1648 Dec 04 00:38	12° Ⅱ 36'10		morning rise	1654 Sep 09 13:01	1° Mp 56'26	
min. Earth dist.	1648 Dec 03 22:22	12° Ⅱ 36'38	8.03200 AU	retrograde	1654 Dec 20 00:08	9° Mp 40'40	2000107
direct	1649 Feb 08 11:27	9° Ⅱ 08'16		opposition	1655 Feb 24 21:33	6° Mp 16'42	
evening set	1649 May 23 07:58	17° Ⅱ 18'46		min. Earth dist.	1655 Feb 24 17:50	6° Mp 17'26	8.32520 AU
				direct	1655 May 04 20:37	2° m 47'59	
conjunction	1649 Jun 10 10:02	19° Ⅲ 39′25		evening set	1655 Aug 19 03:14	10° m 47'05	
minimum elong	1649 Jun 10 10:05	19° ∏ 39'26	1°09'29				
max. Earth dist.	1649 Jun 10 13:51		10.01929 AU	conjunction	1655 Sep 05 18:57	12° m 59'10	1°47'22
morning rise	1649 Jun 28 13:45	22° Ⅱ 00'36		minimum elong	1655 Sep 05 18:54	12° m 59'09	1°47'22
	1649 Sep 23 12:51	0		max. Earth dist.	1655 Sep 05 22:46	-•	10.38063 AU
retrograde	1649 Oct 12 06:45	0° © 19'33		morning rise	1655 Sep 23 06:18	15° m 09'52	
	1649 Oct 31 01:31	30°Ŗ Ⅱ		retrograde	1656 Jan 02 00:47	22°Mp45'16	
opposition	1649 Dec 18 05:50	26° Ⅱ 50'04	-1°08'06	opposition	1656 Mar 09 05:47	19° m 22'43	2°23'28
min. Earth dist.	1649 Dec 18 02:21	26° Ⅱ 50'47	8.01487 AU	min. Earth dist.	1656 Mar 09 02:01	19° m 23'28	8.43903 AU
direct	1650 Feb 22 21:21	23° Ⅲ 21'15		direct	1656 May 17 18:03	15° m 55'00	
	1650 May 25 19:41	0 \circ \odot		evening set	1656 Aug 31 20:11	23° Mp 46'44	
evening set	1650 Jun 07 10:55	1° 9 34'54					
				conjunction	1656 Sep 18 07:03	25° m 55'49	2°03'22
conjunction	1650 Jun 25 15:16	3°\$56'12	-0°38'49	minimum elong	1656 Sep 18 07:01	25° m 55'48	2°03'23
minimum elong	1650 Jun 25 15:18	3° 5 56'13	0°38'49	max. Earth dist.	1656 Sep 18 10:37	25° m 56'56	10.49694 AU
max. Earth dist.	1650 Jun 25 20:23	3° © 57'52	10.01717 AU	morning rise	1656 Oct 05 13:11	28° Mp 03'28	
morning rise	1650 Jul 13 19:51	6°517'36		•	1656 Oct 22 00:04	0∘ ⊽	
retrograde	1650 Oct 26 17:31	14° © 32'39		retrograde	1657 Jan 13 19:48	5° £ 30′27	
opposition	1651 Jan 01 10:36	11° © 03'48	-0°28'06	opposition	1657 Mar 22 08:28	2° ≏ 09'16	2°39'00
min. Earth dist.	1651 Jan 01 06:11	11° © 04'43	8.02708 AU	min. Earth dist.	1657 Mar 22 05:07	2° £ 09'55	8.55687 AU
direct	1651 Mar 09 09:40	7° © 34'22			1657 Apr 21 04:59	30°R. ™)	
evening set	1651 Jun 22 14:20	15°549'00		direct	1657 May 31 07:40	28° m/42'45	
evening see	1031 Juli 22 11.20	15 🔾 15 00		ancer	1657 Jul 09 23:37	0° ⊡	
conjunction	1651 Jul 10 19:10	18° © 09'58	-0°05'54	evening set	1657 Sep 14 02:40	6° ≏ 26'31	
minimum elong	1651 Jul 10 19:11	18° © 09'58	0°05'54	evening sec	1037 Sep 11 02:10	0 =2031	
behind sun begin	1651 Jul 10 12:10	18° © 07'43	0 03 3 1	conjunction	1657 Oct 01 08:49	8° ≏ 32'44	2°13'00
behind sun end	1651 Jul 11 02:12	18°9512'14		minimum elong	1657 Oct 01 08:49		2°13'00
max. Earth dist.		10 312 17					2 13 00
	1651 Iul 11 01·14	18061115/	10 04403 ATT	•			10.61/3/ AII
morning rice	1651 Jul 11 01:14		10.04403 AU	max. Earth dist.	1657 Oct 01 12:03	8° ჲ 33'43	10.61434 AU
morning rise	1651 Jul 28 22:53	20°530'36	10.04403 AU	max. Earth dist. morning rise	1657 Oct 01 12:03 1657 Oct 18 10:08	8° £ 33'43 10° £ 37'31	10.61434 AU
asc. node	1651 Jul 28 22:53 1651 Sep 15 09:48	20°©30'36 25°©57'33	10.04403 AU	max. Earth dist. morning rise retrograde	1657 Oct 01 12:03 1657 Oct 18 10:08 1658 Jan 26 07:26	8° ⊆ 33'43 10° ⊆ 37'31 17° ⊆ 56'46	
asc. node retrograde	1651 Jul 28 22:53 1651 Sep 15 09:48 1651 Nov 09 23:25	20°S30'36 25°S57'33 28°S39'42		max. Earth dist. morning rise retrograde opposition	1657 Oct 01 12:03 1657 Oct 18 10:08 1658 Jan 26 07:26 1658 Apr 04 05:50	8° Ω 33'43 10° Ω 37'31 17° Ω 56'46 14° Ω 36'51	2°46'34
asc. node retrograde opposition	1651 Jul 28 22:53 1651 Sep 15 09:48 1651 Nov 09 23:25 1652 Jan 15 13:21	20°©30'36 25°©57'33 28°©39'42 25°©11'48	0°13'20	max. Earth dist. morning rise retrograde opposition min. Earth dist.	1657 Oct 01 12:03 1657 Oct 18 10:08 1658 Jan 26 07:26 1658 Apr 04 05:50 1658 Apr 04 03:40	8°£33'43 10°£37'31 17°£56'46 14°£36'51 14°£37'16	
asc. node retrograde opposition min. Earth dist.	1651 Jul 28 22:53 1651 Sep 15 09:48 1651 Nov 09 23:25 1652 Jan 15 13:21 1652 Jan 15 08:32	20°©30'36 25°©57'33 28°©39'42 25°©11'48 25°©12'48		max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	1657 Oct 01 12:03 1657 Oct 18 10:08 1658 Jan 26 07:26 1658 Apr 04 05:50 1658 Apr 04 03:40 1658 Jun 13 14:17	8° \$\Omega 33'43\) 10° \$\Omega 37'31\) 17° \$\Omega 56'46\) 14° \$\Omega 36'51\) 14° \$\Omega 37'16\) 11° \$\Omega 11'37\)	2°46'34
asc. node retrograde opposition min. Earth dist. direct	1651 Jul 28 22:53 1651 Sep 15 09:48 1651 Nov 09 23:25 1652 Jan 15 13:21 1652 Jan 15 08:32 1652 Mar 22 21:51	20°©30'36 25°©57'33 28°©39'42 25°©11'48 25°©12'48 21°©42'02	0°13'20	max. Earth dist. morning rise retrograde opposition min. Earth dist.	1657 Oct 01 12:03 1657 Oct 18 10:08 1658 Jan 26 07:26 1658 Apr 04 05:50 1658 Apr 04 03:40	8°£33'43 10°£37'31 17°£56'46 14°£36'51 14°£37'16	2°46'34
asc. node retrograde opposition min. Earth dist.	1651 Jul 28 22:53 1651 Sep 15 09:48 1651 Nov 09 23:25 1652 Jan 15 13:21 1652 Jan 15 08:32 1652 Mar 22 21:51 1652 Jul 06 15:27	20°S30'36 25°S57'33 28°S39'42 25°S11'48 25°S12'48 21°S42'02 29°S55'31	0°13'20	max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	1657 Oct 01 12:03 1657 Oct 18 10:08 1658 Jan 26 07:26 1658 Apr 04 05:50 1658 Apr 04 03:40 1658 Jun 13 14:17 1658 Sep 26 22:54	8° \$\infty\$33'43 10° \$\infty\$37'31 17° \$\infty\$56'46 14° \$\infty\$36'51 14° \$\infty\$37'16 11° \$\infty\$11'37 18° \$\infty\$47'15	2°46'34 8.67295 AU
asc. node retrograde opposition min. Earth dist. direct	1651 Jul 28 22:53 1651 Sep 15 09:48 1651 Nov 09 23:25 1652 Jan 15 13:21 1652 Jan 15 08:32 1652 Mar 22 21:51	20°©30'36 25°©57'33 28°©39'42 25°©11'48 25°©12'48 21°©42'02	0°13'20	max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction	1657 Oct 01 12:03 1657 Oct 18 10:08 1658 Jan 26 07:26 1658 Apr 04 05:50 1658 Apr 04 03:40 1658 Jun 13 14:17 1658 Sep 26 22:54	8° \$\Omega 33'43\) 10° \$\Omega 37'31\) 17° \$\Omega 56'46\) 14° \$\Omega 36'51\) 14° \$\Omega 37'16\) 11° \$\Omega 11'37\) 18° \$\Omega 47'15\) 20° \$\Omega 50'51\]	2°46'34 8.67295 AU 2°16'13
asc. node retrograde opposition min. Earth dist. direct evening set	1651 Jul 28 22:53 1651 Sep 15 09:48 1651 Nov 09 23:25 1652 Jan 15 13:21 1652 Jan 15 08:32 1652 Mar 22 21:51 1652 Jul 06 15:27 1652 Jul 07 05:38	20°930'36 25°957'33 28°939'42 25°911'48 25°912'48 21°942'02 29°955'31 0°\$\Omega\$	0°13'20 8.06769 AU	max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	1657 Oct 01 12:03 1657 Oct 18 10:08 1658 Jan 26 07:26 1658 Apr 04 05:50 1658 Apr 04 03:40 1658 Jun 13 14:17 1658 Sep 26 22:54 1658 Oct 14 00:44 1658 Oct 14 00:43	8° \(\Omega \) 33'43 10° \(\Omega \) 37'31 17° \(\Omega \) 56'46 14° \(\Omega \) 36'51 14° \(\Omega \) 37'16 11° \(\Omega \) 11'37 18° \(\Omega \) 47'15 20° \(\Omega \) 50'51 20° \(\Omega \) 50'51	2°46'34 8.67295 AU 2°16'13 2°16'14
asc. node retrograde opposition min. Earth dist. direct evening set	1651 Jul 28 22:53 1651 Sep 15 09:48 1651 Nov 09 23:25 1652 Jan 15 13:21 1652 Jan 15 08:32 1652 Mar 22 21:51 1652 Jul 06 15:27 1652 Jul 07 05:38	20°\$30'36 25°\$57'33 28°\$39'42 25°\$11'48 25°\$12'48 21°\$42'02 29°\$55'31 0°\$\Omega\$ 2°\$\Omega\$15'14	0°13'20 8.06769 AU 0°27'12	max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	1657 Oct 01 12:03 1657 Oct 18 10:08 1658 Jan 26 07:26 1658 Apr 04 05:50 1658 Apr 04 03:40 1658 Jun 13 14:17 1658 Sep 26 22:54 1658 Oct 14 00:44 1658 Oct 14 00:43 1658 Oct 14 02:40	8° \$\Omega 33'43\) 10° \$\Omega 37'31\) 17° \$\Omega 56'46\) 14° \$\Omega 36'51\) 14° \$\Omega 37'16\) 11° \$\Omega 11'37\) 18° \$\Omega 47'15\) 20° \$\Omega 50'51\) 20° \$\Omega 50'51\) 20° \$\Omega 50'51'26\)	2°46'34 8.67295 AU 2°16'13
asc. node retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	1651 Jul 28 22:53 1651 Sep 15 09:48 1651 Nov 09 23:25 1652 Jan 15 13:21 1652 Jan 15 08:32 1652 Mar 22 21:51 1652 Jul 06 15:27 1652 Jul 07 05:38 1652 Jul 24 19:00 1652 Jul 24 18:59	20°\$30'36 25°\$57'33 28°\$39'42 25°\$11'48 25°\$12'48 21°\$42'02 29°\$55'31 0°\$\Omega\$ 2°\$\Omega\$15'14 2°\$\Omega\$15'13	0°13'20 8.06769 AU 0°27'12 0°27'12	max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	1657 Oct 01 12:03 1657 Oct 18 10:08 1658 Jan 26 07:26 1658 Apr 04 05:50 1658 Apr 04 03:40 1658 Jun 13 14:17 1658 Sep 26 22:54 1658 Oct 14 00:43 1658 Oct 14 00:43 1658 Oct 14 02:40 1658 Oct 30 22:04	8° \(\Omega \) 33'43 10° \(\Omega \) 37'31 17° \(\Omega \) 56'46 14° \(\Omega \) 36'51 14° \(\Omega \) 37'16 11° \(\Omega \) 11'37 18° \(\Omega \) 47'15 20° \(\Omega \) 50'51 20° \(\Omega \) 50'51 20° \(\Omega \) 50'51 20° \(\Omega \) 53'08	2°46'34 8.67295 AU 2°16'13 2°16'14
asc. node retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	1651 Jul 28 22:53 1651 Sep 15 09:48 1651 Nov 09 23:25 1652 Jan 15 13:21 1652 Jan 15 08:32 1652 Mar 22 21:51 1652 Jul 06 15:27 1652 Jul 07 05:38 1652 Jul 24 19:00 1652 Jul 24 18:59 1652 Jul 25 01:12	20°\$30'36 25°\$57'33 28°\$39'42 25°\$11'48 25°\$12'48 21°\$42'02 29°\$55'31 0°\$\Omega\$ 2°\$\Omega\$15'14 2°\$\Omega\$15'13 2°\$\Omega\$17'13	0°13'20 8.06769 AU 0°27'12	max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	1657 Oct 01 12:03 1657 Oct 18 10:08 1658 Jan 26 07:26 1658 Apr 04 05:50 1658 Apr 04 03:40 1658 Jun 13 14:17 1658 Sep 26 22:54 1658 Oct 14 00:44 1658 Oct 14 00:43 1658 Oct 14 02:40 1658 Oct 30 22:04 1659 Jan 28 05:29	8° \$\Omega 33'43\) 10° \$\Omega 37'31\) 17° \$\Omega 56'46\) 14° \$\Omega 36'51\) 14° \$\Omega 37'16\) 11° \$\Omega 11'37\) 18° \$\Omega 47'15\) 20° \$\Omega 50'51\) 20° \$\Omega 50'51\) 20° \$\Omega 51'26\) 22° \$\Omega 53'08\) 0° \$\Mathreau\$	2°46'34 8.67295 AU 2°16'13 2°16'14
asc. node retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	1651 Jul 28 22:53 1651 Sep 15 09:48 1651 Nov 09 23:25 1652 Jan 15 13:21 1652 Jan 15 08:32 1652 Mar 22 21:51 1652 Jul 06 15:27 1652 Jul 07 05:38 1652 Jul 24 19:00 1652 Jul 24 18:59 1652 Jul 25 01:12 1652 Aug 11 20:12	20°530'36 25°557'33 28°539'42 25°511'48 25°512'48 21°542'02 29°555'31 0° \Omega 2° \Omega 15'14 2° \Omega 15'14 2° \Omega 15'13 2° \Omega 17'13 4° \Omega 34'12	0°13'20 8.06769 AU 0°27'12 0°27'12	max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	1657 Oct 01 12:03 1657 Oct 18 10:08 1658 Jan 26 07:26 1658 Apr 04 05:50 1658 Apr 04 03:40 1658 Jun 13 14:17 1658 Sep 26 22:54 1658 Oct 14 00:44 1658 Oct 14 00:43 1658 Oct 14 02:40 1658 Oct 30 22:04 1659 Jan 28 05:29 1659 Feb 07 12:33	8° \$\Delta 33'43 10° \$\Delta 37'31 17° \$\Delta 56'46 14° \$\Delta 36'51 14° \$\Delta 37'16 11° \$\Delta 11'37 18° \$\Delta 47'15 20° \$\Delta 50'51 20° \$\Delta 50'51 20° \$\Delta 53'08 0° \$\mathrm{M}\$.	2°46'34 8.67295 AU 2°16'13 2°16'14
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asc. node 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	1651 Jul 28 22:53 1651 Sep 15 09:48 1651 Nov 09 23:25 1652 Jan 15 13:21 1652 Jan 15 08:32 1652 Mar 22 21:51 1652 Jul 06 15:27 1652 Jul 07 05:38 1652 Jul 24 19:00 1652 Jul 24 18:59 1652 Jul 25 01:12 1652 Aug 11 20:12 1652 Aug 11 20:12 1653 Jul 28 12:40 1653 Jul 28 08:16 1653 Apr 06 08:21 1653 Jul 21 11:30 1653 Jul 30 17:48 1653 Aug 08 12:08 1653 Aug 08 12:08 1653 Aug 08 12:05 1653 Aug 08 17:33 1653 Aug 26 09:29	20°\$30'36 25°\$57'33 28°\$39'42 25°\$11'48 25°\$12'48 21°\$42'02 29°\$55'31 0°\$\Omega\$ 2°\$\Omega\$15'13 2°\$\Omega\$15'13 2°\$\Omega\$15'13 2°\$\Omega\$15'13 4°\$\Omega\$34'12 12°\$\Omega\$35'48 9°\$\Omega\$09'04 9°\$\Omega\$09'58 5°\$\Omega\$39'17 13°\$\Omega\$49'38 15°\$\Omega\$16°\$\Omega\$07'18 16°\$\Omega\$07'17 16°\$\Omega\$09'02 18°\$\Omega\$23'55	0°13'20 8.06769 AU 0°27'12 0°27'12 10.09798 AU 0°53'25 8.13396 AU 0°58'11 0°58'11 10.17540 AU	max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. direct	1657 Oct 01 12:03 1657 Oct 18 10:08 1658 Jan 26 07:26 1658 Apr 04 05:50 1658 Apr 04 03:40 1658 Jun 13 14:17 1658 Sep 26 22:54 1658 Oct 14 00:44 1658 Oct 14 00:43 1658 Oct 14 02:40 1658 Oct 14 02:40 1658 Oct 30 22:04 1659 Jan 28 05:29 1659 Feb 07 12:33 1659 Feb 17 20:52 1659 Apr 16 22:10 1659 Apr 16 21:25 1659 Jun 26 15:31 1659 Oct 02 03:51 1659 Oct 09 09:23 1659 Oct 26 07:36 1659 Oct 26 07:36 1659 Oct 26 07:44 1659 Nov 12 01:56	8° \$\textit{\Omega} 33'43 10° \$\textit{\Omega} 37'31 17° \$\textit{\Omega} 56'46 14° \$\textit{\Omega} 36'51 14° \$\textit{\Omega} 37'16 11° \$\textit{\Omega} 11'37 18° \$\textit{\Omega} 47'15 20° \$\textit{\Omega} 50'51 20° \$\textit{\Omega} 50'51 20° \$\textit{\Omega} 51'26 22° \$\textit{\Omega} 53'08 0° \$\textit{\Omega} 00'\$\textit{\Omega} 00'\$\textit{\Omega} 46'45 26° \$\textit{\Omega} 46'45 26° \$\textit{\Omega} 46'54 23° \$\textit{\Omega} 22'50 0° \$\textit{\Omega} 00'\$\textit{\Omega} 00'	2°46'34 8.67295 AU 2°16'13 2°16'14 10.72736 AU 2°46'24 8.78206 AU 2°13'20 2°13'20
asc. node 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	1651 Jul 28 22:53 1651 Sep 15 09:48 1651 Nov 09 23:25 1652 Jan 15 13:21 1652 Jan 15 08:32 1652 Mar 22 21:51 1652 Jul 06 15:27 1652 Jul 07 05:38 1652 Jul 24 19:00 1652 Jul 24 18:59 1652 Jul 24 18:59 1652 Jul 25 01:12 1652 Aug 11 20:12 1652 Aug 11 20:12 1653 Jan 28 12:40 1653 Jan 28 08:16 1653 Apr 06 08:21 1653 Jul 21 11:30 1653 Jul 30 17:48 1653 Aug 08 12:08 1653 Aug 08 12:05 1653 Aug 08 17:33 1653 Aug 26 09:29 1653 Dec 06 16:39	20°\$30'36 25°\$57'33 28°\$39'42 25°\$11'48 25°\$12'48 21°\$42'02 29°\$55'31 0°\$\Omega\$15'14 2°\$\Omega\$15'13 2°\$\Omega\$15'13 4°\$\Omega\$34'12 12°\$\Omega\$35'48 9°\$\Omega\$09'04 9°\$\Omega\$09'58 5°\$\Omega\$39'17 13°\$\Omega\$49'38 15°\$\Omega\$1 16°\$\Omega\$07'18 16°\$\Omega\$09'02 18°\$\Omega\$23'55 26°\$\Omega\$17'01	0°13'20 8.06769 AU 0°27'12 0°27'12 10.09798 AU 0°53'25 8.13396 AU 0°58'11 0°58'11 10.17540 AU	max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. direct	1657 Oct 01 12:03 1657 Oct 18 10:08 1658 Jan 26 07:26 1658 Apr 04 05:50 1658 Apr 04 03:40 1658 Jun 13 14:17 1658 Sep 26 22:54 1658 Oct 14 00:44 1658 Oct 14 00:43 1658 Oct 14 02:40 1658 Oct 30 22:04 1659 Jan 28 05:29 1659 Feb 07 12:33 1659 Feb 17 20:52 1659 Apr 16 22:10 1659 Apr 16 21:25 1659 Jun 26 15:31 1659 Oct 02 03:51 1659 Oct 09 09:23 1659 Oct 26 07:36 1659 Oct 26 07:44 1659 Nov 12 01:56 1660 Feb 19 13:02	8° \$\textit{\Omega} 33'43 10° \$\textit{\Omega} 37'31 17° \$\textit{\Omega} 56'46 14° \$\textit{\Omega} 36'51 14° \$\textit{\Omega} 37'16 11° \$\textit{\Omega} 11'37 18° \$\textit{\Omega} 47'15 20° \$\textit{\Omega} 50'51 20° \$\textit{\Omega} 50'51 20° \$\textit{\Omega} 50'51 20° \$\textit{\Omega} 53'08 0° \$\textit{\Omega} 0\$" \$\te	2°46'34 8.67295 AU 2°16'13 2°16'14 10.72736 AU 2°46'24 8.78206 AU 2°13'20 2°13'20 10.83110 AU

diract	1660 Jul 08 09:39	5°M18'12		ovening set	1666 Dec 27 04:14	20° ප් 48'13	
direct				evening set	1000 Dec 27 04.14	20 04613	
evening set	1660 Oct 20 11:30	12°M38'23			1667 1 12 10 22	220745124	0004140
	166037 06 06 74	1.40% 25152	200.4150	conjunction	1667 Jan 12 19:32	22°₹45'34	
conjunction	1660 Nov 06 06:54	14°M37'53	2°04'50	minimum elong	1667 Jan 12 19:33	22°₹45'34	0°04'48
minimum elong	1660 Nov 06 06:56	14°M37'54	2°04'49	behind sun begin	1667 Jan 12 12:44	22° る 43'35	
max. Earth dist.	1660 Nov 06 05:59		10.92111 AU	behind sun end	1667 Jan 13 02:22	22° る 47'34	
	1660 Nov 09 08:59	15°M		max. Earth dist.	1667 Jan 12 13:54		11.01772 AU
morning rise	1660 Nov 22 22:59	16°M36'25		morning rise	1667 Jan 29 11:58	24° る 43'19	
retrograde	1661 Mar 02 09:39	23°M38'44			1667 Mar 24 01:15	0° ≈	
opposition	1661 May 10 17:41	20°M21'21	2°25'15	retrograde	1667 May 11 15:43	1° ≈ 50'51	
min. Earth dist.	1661 May 10 18:06	20°M21'17	8.96098 AU		1667 Jun 30 20:04	30°R₹	
direct	1661 Jul 20 22:01	16° M 59'58		opposition	1667 Jul 21 12:21	28° る 31'25	-0°22'30
evening set	1661 Nov 01 06:27	24°M13'30		min. Earth dist.	1667 Jul 21 17:16	28° ප 30'30	8.98860 AU
C				direct	1667 Sep 29 15:58	25° る 13'09	
conjunction	1661 Nov 17 23:53	26°M11'36	1°51'19		1667 Dec 18 14:54	0° ≈	
minimum elong	1661 Nov 17 23:55	26°M11'37		evening set	1668 Jan 07 15:35	2°≈14'29	
max. Earth dist.	1661 Nov 17 22:41		10.99366 AU	evening set	1000 3411 07 13.33	2 70(142)	
			10.99300 AU	:	1669 I 24 07:24	4912147	0021146
morning rise	1661 Dec 04 14:24	28°M08'54		conjunction	1668 Jan 24 07:34	4°≈12'47	
	1661 Dec 21 01:22	0° ∡ 7		minimum elong	1668 Jan 24 07:33	4°≈12'47	
retrograde	1662 Mar 14 06:03	5° ≯ 08'11		max. Earth dist.	1668 Jan 24 01:02		10.95486 AU
opposition	1662 May 22 22:39	1° ≯ 751′09	2°05'51	morning rise	1668 Feb 10 01:40	6°≈11'44	
min. Earth dist.	1662 May 22 23:52	1° ∡ 750'55	9.02334 AU	retrograde	1668 May 22 21:38	13° ≈ 25′25	
	1662 Jun 18 11:27	30°RML		opposition	1668 Aug 01 20:04	10° ≈ 04'45	-0°55'15
direct	1662 Aug 02 04:27	28°M30'50		min. Earth dist.	1668 Aug 02 01:24	10° ≈ 03'45	8.91618 AU
	1662 Sep 14 17:43	0° ∡ ¹		direct	1668 Oct 10 12:31	6° ≈ 46'09	
evening set	1662 Nov 12 19:46	5° х 38'43		evening set	1669 Jan 18 07:15	13°≈50'41	
Č				Ç	1669 Jan 28 00:53	15° ≈	
conjunction	1662 Nov 29 11:46	7° ∡ ³35'52	1°33'32				
minimum elong	1662 Nov 29 11:48	7° × 35'53	1°33'32	conjunction	1669 Feb 04 00:21	15° ≈ 50'16	-0°57'50
max. Earth dist.	1662 Nov 29 09:29		11.04559 AU	minimum elong	1669 Feb 04 00:19	15°≈50'15	
		9° 🖈 32'25	11.04339 AU	_			
morning rise	1662 Dec 16 01:35			max. Earth dist.	1669 Feb 03 18:12		10.87352 AU
retrograde	1663 Mar 25 23:12	16° ∡ 30′08		morning rise	1669 Feb 20 20:19	17°≈50'42	
opposition	1663 Jun 04 01:31	13° ≯ 13'10	1°41'44	retrograde	1669 Jun 04 11:27	25°≈11'52	
min. Earth dist.	1663 Jun 04 04:29	13° ∡ 12'37	9.06370 AU	opposition	1669 Aug 14 07:34	21° ≈ 49'48	-1°26'18
direct	1663 Aug 14 05:16	9° ∡ 753'43		min. Earth dist.	1669 Aug 14 12:23	21° ≈ 48'54	8.82690 AU
evening set	1663 Nov 24 05:24	16° ₹ 57'21		direct	1669 Oct 22 14:16	18° ≈ 30'40	
				evening set	1670 Jan 30 05:00	25° ≈ 39'49	
conjunction	1663 Dec 10 20:26	18° ∡ ¹53'56	1°12'13				
minimum elong	1663 Dec 10 20:28	18° ∡ ¹53'57	1°12'13	conjunction	1670 Feb 15 23:45	27°≈41'01	-1°21'54
max. Earth dist.	1663 Dec 10 15:55	18° ₹ '52'36	11.07441 AU	minimum elong	1670 Feb 15 23:43	27° ≈ 41'00	1°21'53
morning rise	1663 Dec 27 10:19	20° ₹ 50'12		max. Earth dist.	1670 Feb 15 18:58		10.77679 AU
retrograde	1664 Apr 05 16:47	27°× 7 47'59		morning rise	1670 Mar 04 21:48	29°≈43'17	10.77075110
opposition	1664 Jun 15 03:06	24°× 7 30'50	1°13'51	morning risc	1670 Mar 07 06:23	0°) €	
min. Earth dist.	1664 Jun 15 07:23		9.08014 AU			7° ∺ 12'56	
		24° 🖈 30'02	9.06014 AU	retrograde	1670 Jun 17 09:12		1054120
direct	1664 Aug 25 04:33	21° ∡ 12′02		opposition	1670 Aug 26 23:29	3°) (49′24	
evening set	1664 Dec 04 12:52	28° ∡ 12'52		min. Earth dist.	1670 Aug 27 03:03		8.72415 AU
	1664 Dec 19 19:50	0°₹		direct	1670 Nov 03 17:30	0° ∺ 29'32	
				evening set	1671 Feb 11 10:14	7°) (44'41	
conjunction	1664 Dec 21 03:35	0° る 09'21	0°48'10				
minimum elong	1664 Dec 21 03:37	0° る 09'21	0°48'10	conjunction	1671 Feb 28 07:00	9° ∺ 47'48	-1°42'50
max. Earth dist.	1664 Dec 20 22:12	0° る 07'46	11.07900 AU	minimum elong	1671 Feb 28 06:58	9°) 47'48	1°42'49
morning rise	1665 Jan 06 17:57	2° る 05'44		max. Earth dist.	1671 Feb 28 02:45	9°) 46′30	10.66844 AU
retrograde	1665 Apr 17 12:41	9° ට 05'14		morning rise	1671 Mar 17 07:37	11° ¥ 52′10	
opposition	1665 Jun 27 04:52	5° る 47'35	0°43'10	retrograde	1671 Jun 30 13:15	19° ∺ 31'02	
min. Earth dist.	1665 Jun 27 09:18	5°₹46'46	9.07240 AU	opposition	1671 Sep 08 20:44	16°) €06'03	-2°17'54
direct	1665 Sep 06 01:07	2° る 29'15	9.07210710	min. Earth dist.	1671 Sep 08 23:32		8.61197 AU
	1665 Dec 15 19:48	9° පි 28'44		direct	1671 Nov 16 01:39	10 X 05 30	0.011)/ AO
evening set	1005 Dec 15 19.48	9 U 2844					
	1666 I 01 10 42	110=205100	0022114	evening set	1672 Feb 24 00:02	20° ₩ 07'36	
conjunction	1666 Jan 01 10:43	11° る 25'28	0°22'14		1772 14 22 15	2201/1217	1050/20
minimum elong	1666 Jan 01 10:44	11°る25'28	0°22'14	conjunction	1672 Mar 11 23:16	22°) 12'56	
max. Earth dist.	1666 Jan 01 05:35		11.05970 AU	minimum elong	1672 Mar 11 23:14	22° 	
morning rise	1666 Jan 18 01:51	13° る 22'21		max. Earth dist.	1672 Mar 11 19:12		10.55299 AU
retrograde	1666 Apr 29 11:52	20° る 25'10		morning rise	1672 Mar 29 02:58	24°) 1 9′40	
opposition	1666 Jul 09 07:41	17° る 06'44	0°10'42		1672 May 22 13:24	0 ° $\mathbf{\Upsilon}$	
min. Earth dist.	1666 Jul 09 11:57	17° る 05'57	9.04137 AU	retrograde	1672 Jul 13 01:15	2° Y 08'04	
direct	1666 Sep 17 20:54	13° る 48'35			1672 Sep 03 20:05	30° ₹ ₩	
desc. node	1666 Nov 08 01:57	15° る 53'09		opposition	1672 Sep 20 23:45	28°) (41'42	-2°35'34
				11	· r ·		-

min. Earth dist.	1672 Sep 21 02:08	28° ¥ 41'14	8.49520 AU	conjunction	1679 Jun 19 03:14	27° ∏ 44'34	-0°53'04
direct	1672 Nov 27 16:52	25°) 19'53	6.47320 AO	minimum elong	1679 Jun 19 03:14	27° I I44'35	
ancer	1673 Feb 11 16:46	0°Υ		max. Earth dist.	1679 Jun 19 08:25		10.01476 AU
evening set	1673 Mar 07 23:22	2° Υ 50'14		man. Barur dige.	1679 Jul 06 12:48	0.8e	10.011,0110
				morning rise	1679 Jul 07 07:39	0°506'02	
conjunction	1673 Mar 25 01:50	4° Y 58'03	-2°10'41	retrograde	1679 Oct 20 16:12	8° © 23'27	
minimum elong	1673 Mar 25 01:49		2°10'41	opposition	1679 Dec 26 10:48	4° © 54'33	-0°46'28
max. Earth dist.	1673 Mar 24 22:29	4° Ƴ 57'00	10.43573 AU	min. Earth dist.	1679 Dec 26 06:30	4° © 55'27	8.02039 AU
morning rise	1673 Apr 11 09:07	7° Ƴ 07'23		direct	1680 Mar 02 05:02	1° © 25'42	
retrograde	1673 Jul 26 20:45	15° Ƴ 05'07		evening set	1680 Jun 15 03:53	9° 5 40'19	
opposition	1673 Oct 04 08:41	11° Y 37'28	-2°45'57	C			
min. Earth dist.	1673 Oct 04 10:34	11° Y 37'06	8.37942 AU	conjunction	1680 Jul 03 08:33	12° © 01'32	-0°20'51
direct	1673 Dec 10 14:44	8° Ƴ 14'30		minimum elong	1680 Jul 03 08:34	12° © 01'33	0°20'51
evening set	1674 Mar 21 08:44	15° Ƴ 53'25		max. Earth dist.	1680 Jul 03 14:23	12° © 03'25	10.03298 AU
C				morning rise	1680 Jul 21 13:01	14° © 22'38	
conjunction	1674 Apr 07 15:13	18° Ƴ 03'56	-2°15'29	retrograde	1680 Nov 03 00:07	22° 5 34'48	
minimum elong	1674 Apr 07 15:13	18° Ƴ 03'56	2°15'29	opposition	1681 Jan 08 15:07	19° 5 06'51	-0°05'18
max. Earth dist.	1674 Apr 07 13:38	18° Ƴ 03'26	10.32238 AU	min. Earth dist.	1681 Jan 08 10:22	19° 5 07'50	8.05260 AU
morning rise	1674 Apr 25 02:28	20° Ƴ 15'59		asc. node	1681 Feb 25 23:48	15° © 57'02	
retrograde	1674 Aug 09 22:50	28° Ƴ 22'12		direct	1681 Mar 16 18:27	15° © 37'38	
opposition	1674 Oct 17 23:22	24° Ƴ 53'30	-2°47'52	evening set	1681 Jun 30 06:59	23° © 51'53	
min. Earth dist.	1674 Oct 17 23:57	24° Y 53'22	8.27042 AU				
direct	1674 Dec 23 20:53	21° Y 29'21		conjunction	1681 Jul 18 11:14	26° © 12'12	0°12'30
evening set	1675 Apr 04 04:25	29° Ƴ 16'54		minimum elong	1681 Jul 18 11:13	26°\$\$12'12	0°12'30
	1675 Apr 09 21:05	0°8		behind sun begin	1681 Jul 18 06:35	26° 5 0'43	
				behind sun end	1681 Jul 18 15:51	26°513'41	
conjunction	1675 Apr 21 15:27	1° 8 30'11	-2°13'06	max. Earth dist.	1681 Jul 18 17:18	26°\$514'09	10.07892 AU
minimum elong	1675 Apr 21 15:29	1° 8 30'12	2°13'06	morning rise	1681 Aug 05 13:53	28° © 31'58	
max. Earth dist.	1675 Apr 21 15:49	1° 8 30'19	10.21893 AU	_	1681 Aug 17 08:44	$0^{\circ}\Omega$	
morning rise	1675 May 09 06:52	3° 8 44'56		retrograde	1681 Nov 17 03:06	6° Ω 37'02	
retrograde	1675 Aug 24 06:32	11° 8 58'11		opposition	1682 Jan 22 16:21	3° Ω 10′13	0°35'43
opposition	1675 Oct 31 19:15	8° 8 28'42	-2°40'32	min. Earth dist.	1682 Jan 22 11:11	3° Ω 11'17	8.11102 AU
min. Earth dist.	1675 Oct 31 18:14	8° 8 28'55	8.17425 AU		1682 Mar 12 12:33	30° ₹ 5	
direct	1676 Jan 06 10:23	5° 8 03'24		direct	1682 Mar 31 06:50	29° © 40'55	
evening set	1676 Apr 17 09:54	12° 8 59'08			1682 Apr 19 00:03	$0^{\circ}\Omega$	
	1676 May 03 02:58	15° 8		evening set	1682 Jul 15 06:00	7° Ω 52'42	
conjunction	1676 May 05 01:44	15° 8 15'07	-2°03'11	conjunction	1682 Aug 02 08:06	10° Ω 11'17	0°44'37
minimum elong	1676 May 05 01:47	15° 8 15'08		minimum elong	1682 Aug 02 08:04	10°Ω11'16	
max. Earth dist.	1676 May 05 03:59	_	10.13155 AU	max. Earth dist.	1682 Aug 02 14:11	10°Ω13'14	10.14869 AU
morning rise	1676 May 22 21:25	17° 8 32'22		morning rise	1682 Aug 20 07:20	12° Ω 28'56	
retrograde	1676 Sep 06 19:54	25° 8 50'37		. 8	1682 Sep 10 01:56	15° Ω	
opposition	1676 Nov 13 19:43	22° 8 20'42					
min. Earth dist.		ZZ C)ZU4Z	-2°23'46	retrograde	1		
11. 4				retrograde opposition	1682 Nov 30 23:36 1683 Feb 05 13:37	20°Ω25'46 17°Ω00'14	1°13'57
direct	1676 Nov 13 17:11	22° 8 21'13	-2°23'46 8.09686 AU	opposition	1682 Nov 30 23:36 1683 Feb 05 13:37	20° Ω 25'46 17° Ω 00'14	
	1676 Nov 13 17:11 1677 Jan 19 05:45	22° 8 21'13 18° 8 54'17		•	1682 Nov 30 23:36	20° Ω 25'46 17° Ω 00'14 17° Ω 01'15	1°13'57 8.19078 AU
evening set	1676 Nov 13 17:11	22° 8 21'13		opposition min. Earth dist.	1682 Nov 30 23:36 1683 Feb 05 13:37 1683 Feb 05 08:38 1683 Mar 03 20:46	20°N25'46 17°N00'14 17°N01'15 15°RN	
evening set	1676 Nov 13 17:11 1677 Jan 19 05:45	22° 8 21'13 18° 8 54'17	8.09686 AU	opposition	1682 Nov 30 23:36 1683 Feb 05 13:37 1683 Feb 05 08:38 1683 Mar 03 20:46 1683 Apr 14 16:21	20° Ω 25'46 17° Ω 00'14 17° Ω 01'15	
evening set conjunction	1676 Nov 13 17:11 1677 Jan 19 05:45 1677 May 02 00:09 1677 May 19 20:39	22° 8 21'13 18° 8 54'17 26° 8 57'14	8.09686 AU -1°45'54	opposition min. Earth dist. direct	1682 Nov 30 23:36 1683 Feb 05 13:37 1683 Feb 05 08:38 1683 Mar 03 20:46	20° N 25'46 17° N 00'14 17° N 01'15 15° R N 13° N 31'10 15° N	
evening set	1676 Nov 13 17:11 1677 Jan 19 05:45 1677 May 02 00:09 1677 May 19 20:39 1677 May 19 20:42	22°\dagger 21'13 18°\dagger 54'17 26°\dagger 57'14 29°\dagger 15'36 29°\dagger 15'37	8.09686 AU -1°45'54	opposition min. Earth dist.	1682 Nov 30 23:36 1683 Feb 05 13:37 1683 Feb 05 08:38 1683 Mar 03 20:46 1683 Apr 14 16:21 1683 May 26 03:32	20° N 25'46 17° N 00'14 17° N 01'15 15° R N 13° N 31'10	
evening set conjunction minimum elong	1676 Nov 13 17:11 1677 Jan 19 05:45 1677 May 02 00:09 1677 May 19 20:39 1677 May 19 20:42 1677 May 20 00:16	22°\dagger 21'13 18°\dagger 54'17 26°\dagger 57'14 29°\dagger 15'36 29°\dagger 15'37	8.09686 AU -1°45'54 1°45'54	opposition min. Earth dist. direct evening set	1682 Nov 30 23:36 1683 Feb 05 13:37 1683 Feb 05 08:38 1683 Mar 03 20:46 1683 Apr 14 16:21 1683 May 26 03:32 1683 Jul 29 22:13	20°N25'46 17°N00'14 17°N01'15 15°N 13°N31'10 15°N 21°N38'44	8.19078 AU
evening set conjunction minimum elong max. Earth dist.	1676 Nov 13 17:11 1677 Jan 19 05:45 1677 May 02 00:09 1677 May 19 20:39 1677 May 19 20:42	22°821'13 18°854'17 26°857'14 29°815'36 29°815'37 29°816'46 0°II	8.09686 AU -1°45'54 1°45'54	opposition min. Earth dist. direct evening set conjunction	1682 Nov 30 23:36 1683 Feb 05 13:37 1683 Feb 05 08:38 1683 Mar 03 20:46 1683 Apr 14 16:21 1683 May 26 03:32 1683 Jul 29 22:13 1683 Aug 16 20:47	20° N 25'46 17° N 00'14 17° N 01'15 15° R N 13° N 31'10 15° N	8.19078 AU 1°13'41
evening set conjunction minimum elong max. Earth dist. morning rise	1676 Nov 13 17:11 1677 Jan 19 05:45 1677 May 02 00:09 1677 May 19 20:39 1677 May 19 20:42 1677 May 20 00:16 1677 May 25 13:18 1677 Jun 06 20:18	22°\delta21'13 18°\delta54'17 26°\delta57'14 29°\delta15'36 29°\delta15'37 29°\delta16'46 0°\pi 1°\pi34'59	8.09686 AU -1°45'54 1°45'54	opposition min. Earth dist. direct evening set	1682 Nov 30 23:36 1683 Feb 05 13:37 1683 Feb 05 08:38 1683 Mar 03 20:46 1683 Apr 14 16:21 1683 May 26 03:32 1683 Jul 29 22:13 1683 Aug 16 20:47 1683 Aug 16 20:44	20° N 25'46 17° N 00'14 17° N 01'15 15° R N 13° N 31'10 15° N 21° N 38'44 23° N 54'55 23° N 54'54	8.19078 AU 1°13'41
evening set conjunction minimum elong max. Earth dist. morning rise retrograde	1676 Nov 13 17:11 1677 Jan 19 05:45 1677 May 02 00:09 1677 May 19 20:39 1677 May 19 20:42 1677 May 20 00:16 1677 May 25 13:18 1677 Jun 06 20:18 1677 Sep 21 11:50	22°821'13 18°854'17 26°857'14 29°815'36 29°815'37 29°816'46 0°11 1°1134'59 9°1155'40	8.09686 AU -1°45'54 1°45'54 10.06578 AU	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	1682 Nov 30 23:36 1683 Feb 05 13:37 1683 Feb 05 08:38 1683 Mar 03 20:46 1683 Apr 14 16:21 1683 May 26 03:32 1683 Jul 29 22:13 1683 Aug 16 20:47 1683 Aug 16 20:44 1683 Aug 17 02:18	20° N 25'46 17° N 00'14 17° N 01'15 15° R N 13° N 31'10 15° N 21° N 38'44 23° N 54'55 23° N 54'54 23° N 56'41	8.19078 AU 1°13'41 1°13'41
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	1676 Nov 13 17:11 1677 Jan 19 05:45 1677 May 02 00:09 1677 May 19 20:39 1677 May 19 20:42 1677 May 20 00:16 1677 May 25 13:18 1677 Jun 06 20:18 1677 Sep 21 11:50 1677 Nov 27 23:29	22°821'13 18°854'17 26°857'14 29°815'36 29°815'37 29°816'46 0°11 1°1134'59 9°1155'40 6°1125'43	8.09686 AU -1°45'54 1°45'54 10.06578 AU -1°58'06	opposition min. Earth dist. direct evening set conjunction minimum elong	1682 Nov 30 23:36 1683 Feb 05 13:37 1683 Feb 05 08:38 1683 Mar 03 20:46 1683 Apr 14 16:21 1683 May 26 03:32 1683 Jul 29 22:13 1683 Aug 16 20:47 1683 Aug 16 20:44 1683 Aug 17 02:18 1683 Sep 03 15:28	20° N 25'46 17° N 00'14 17° N 01'15 15° R N 13° N 31'10 15° N 21° N 38'44 23° N 54'55 23° N 56'41 26° N 09'56	8.19078 AU 1°13'41 1°13'41
evening set conjunction minimum elong max. Earth dist. morning rise retrograde	1676 Nov 13 17:11 1677 Jan 19 05:45 1677 May 02 00:09 1677 May 19 20:39 1677 May 19 20:42 1677 May 20 00:16 1677 May 25 13:18 1677 Jun 06 20:18 1677 Sep 21 11:50	22°821'13 18°854'17 26°857'14 29°815'36 29°815'37 29°816'46 0°11 1°134'59 9°1155'40 6°1125'43 6°1126'25	8.09686 AU -1°45'54 1°45'54 10.06578 AU	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	1682 Nov 30 23:36 1683 Feb 05 13:37 1683 Feb 05 08:38 1683 Mar 03 20:46 1683 Apr 14 16:21 1683 May 26 03:32 1683 Jul 29 22:13 1683 Aug 16 20:47 1683 Aug 16 20:44 1683 Aug 17 02:18	20° N 25'46 17° N 00'14 17° N 01'15 15° R N 13° N 31'10 15° N 21° N 38'44 23° N 54'55 23° N 54'54 23° N 56'41	8.19078 AU 1°13'41 1°13'41
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	1676 Nov 13 17:11 1677 Jan 19 05:45 1677 May 02 00:09 1677 May 19 20:39 1677 May 19 20:42 1677 May 20 00:16 1677 May 25 13:18 1677 Jun 06 20:18 1677 Sep 21 11:50 1677 Nov 27 23:29 1677 Nov 27 20:02	22°821'13 18°854'17 26°857'14 29°815'36 29°815'37 29°816'46 0°11 1°1134'59 9°1155'40 6°1125'43	8.09686 AU -1°45'54 1°45'54 10.06578 AU -1°58'06	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	1682 Nov 30 23:36 1683 Feb 05 13:37 1683 Feb 05 08:38 1683 Mar 03 20:46 1683 Apr 14 16:21 1683 May 26 03:32 1683 Jul 29 22:13 1683 Aug 16 20:47 1683 Aug 16 20:44 1683 Aug 17 02:18 1683 Sep 03 15:28 1683 Oct 06 16:34	20°N25'46 17°N00'14 17°N01'15 15°RN 13°N31'10 15°N 21°N38'44 23°N54'55 23°N56'41 26°N09'56 0°M	8.19078 AU 1°13'41 1°13'41
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	1676 Nov 13 17:11 1677 Jan 19 05:45 1677 May 02 00:09 1677 May 19 20:39 1677 May 19 20:42 1677 May 20 00:16 1677 May 25 13:18 1677 Jun 06 20:18 1677 Sep 21 11:50 1677 Nov 27 23:29 1677 Nov 27 20:02 1678 Feb 02 08:07	22°821'13 18°854'17 26°857'14 29°815'36 29°815'37 29°816'46 0°11 1°134'59 9°1155'40 6°1125'43 6°1126'25 2°1158'18	8.09686 AU -1°45'54 1°45'54 10.06578 AU -1°58'06	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	1682 Nov 30 23:36 1683 Feb 05 13:37 1683 Feb 05 08:38 1683 Mar 03 20:46 1683 Apr 14 16:21 1683 May 26 03:32 1683 Jul 29 22:13 1683 Aug 16 20:47 1683 Aug 16 20:44 1683 Aug 17 02:18 1683 Sep 03 15:28 1683 Oct 06 16:34 1683 Dec 14 12:29	20°N25'46 17°N00'14 17°N01'15 15°RN 13°N31'10 15°N 21°N38'44 23°N54'55 23°N54'54 23°N56'41 26°N09'56 0°M 3°M58'07	8.19078 AU 1°13'41 1°13'41 10.23674 AU
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	1676 Nov 13 17:11 1677 Jan 19 05:45 1677 May 02 00:09 1677 May 19 20:39 1677 May 19 20:42 1677 May 20 00:16 1677 May 25 13:18 1677 Jun 06 20:18 1677 Sep 21 11:50 1677 Nov 27 23:29 1677 Nov 27 20:02 1678 Feb 02 08:07	22°821'13 18°854'17 26°857'14 29°815'36 29°815'37 29°816'46 0°11 1°134'59 9°1155'40 6°1125'43 6°1126'25 2°1158'18	8.09686 AU -1°45'54 1°45'54 10.06578 AU -1°58'06 8.04326 AU	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	1682 Nov 30 23:36 1683 Feb 05 13:37 1683 Feb 05 08:38 1683 Mar 03 20:46 1683 Apr 14 16:21 1683 May 26 03:32 1683 Jul 29 22:13 1683 Aug 16 20:47 1683 Aug 16 20:44 1683 Aug 17 02:18 1683 Sep 03 15:28 1683 Oct 06 16:34 1683 Dec 14 12:29 1684 Feb 19 06:04	20°N25'46 17°N00'14 17°N01'15 15°RN 13°N31'10 15°N 21°N38'44 23°N54'55 23°N54'54 23°N56'41 26°N09'56 0°M 3°M58'07 0°M33'59	8.19078 AU 1°13'41 1°13'41 10.23674 AU 1°47'11
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	1676 Nov 13 17:11 1677 Jan 19 05:45 1677 May 02 00:09 1677 May 19 20:39 1677 May 19 20:42 1677 May 20 00:16 1677 May 25 13:18 1677 Jun 06 20:18 1677 Sep 21 11:50 1677 Nov 27 23:29 1677 Nov 27 20:02 1678 Feb 02 08:07 1678 May 16 21:40	22°821'13 18°854'17 26°857'14 29°815'36 29°815'37 29°816'46 0°11 1°134'59 9°155'40 6°125'43 6°126'25 2°158'18 11°107'06	8.09686 AU -1°45'54 1°45'54 10.06578 AU -1°58'06 8.04326 AU	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	1682 Nov 30 23:36 1683 Feb 05 13:37 1683 Feb 05 08:38 1683 Mar 03 20:46 1683 Apr 14 16:21 1683 May 26 03:32 1683 Jul 29 22:13 1683 Aug 16 20:47 1683 Aug 16 20:44 1683 Aug 17 02:18 1683 Sep 03 15:28 1683 Oct 06 16:34 1683 Dec 14 12:29 1684 Feb 19 06:04 1684 Feb 19 02:02	20°A25'46 17°A00'14 17°A01'15 15°RA 13°A31'10 15°A 21°A38'44 23°A54'55 23°A54'54 23°A56'41 26°A09'56 0°M 3°M58'07 0°M33'59 0°M34'47	8.19078 AU 1°13'41 1°13'41 10.23674 AU 1°47'11
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction	1676 Nov 13 17:11 1677 Jan 19 05:45 1677 May 02 00:09 1677 May 19 20:39 1677 May 19 20:42 1677 May 20 00:16 1677 May 25 13:18 1677 Jun 06 20:18 1677 Sep 21 11:50 1677 Nov 27 23:29 1677 Nov 27 20:02 1678 Feb 02 08:07 1678 May 16 21:40	22°821'13 18°854'17 26°857'14 29°815'36 29°815'37 29°816'46 0°Л 1°Л34'59 9°Л55'40 6°Л25'43 6°Л26'25 2°Л58'18 11°Л07'06 13°Л27'14 13°Л27'14	8.09686 AU -1°45'54 1°45'54 10.06578 AU -1°58'06 8.04326 AU	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	1682 Nov 30 23:36 1683 Feb 05 13:37 1683 Feb 05 08:38 1683 Mar 03 20:46 1683 Apr 14 16:21 1683 May 26 03:32 1683 Jul 29 22:13 1683 Aug 16 20:47 1683 Aug 16 20:44 1683 Aug 17 02:18 1683 Oct 06 16:34 1683 Dec 14 12:29 1684 Feb 19 06:04 1684 Feb 19 02:02 1684 Feb 26 07:34	20° N 25'46 17° N 00'14 17° N 01'15 15° R N 13° N 31'10 15° N 21° N 38'44 23° N 54'55 23° N 54'54 23° N 56'41 26° N 09'56 0° M 3° M 58'07 0° M 33'59 0° M 34'47 30° R N 27° N 05'26	8.19078 AU 1°13'41 1°13'41 10.23674 AU 1°47'11
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	1676 Nov 13 17:11 1677 Jan 19 05:45 1677 May 02 00:09 1677 May 19 20:39 1677 May 19 20:42 1677 May 20 00:16 1677 May 25 13:18 1677 Jun 06 20:18 1677 Sep 21 11:50 1677 Nov 27 23:29 1677 Nov 27 23:29 1678 Feb 02 08:07 1678 May 16 21:40 1678 Jun 03 22:09 1678 Jun 03 22:09	22°821'13 18°854'17 26°857'14 29°815'36 29°815'37 29°816'46 0°Л 1°Л34'59 9°Л55'40 6°Л25'43 6°Л26'25 2°Л58'18 11°Л07'06 13°Л27'14 13°Л27'14	8.09686 AU -1°45'54 1°45'54 10.06578 AU -1°58'06 8.04326 AU -1°22'04 1°22'03	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	1682 Nov 30 23:36 1683 Feb 05 13:37 1683 Feb 05 08:38 1683 Mar 03 20:46 1683 Apr 14 16:21 1683 May 26 03:32 1683 Jul 29 22:13 1683 Aug 16 20:47 1683 Aug 16 20:44 1683 Aug 17 02:18 1683 Sep 03 15:28 1683 Oct 06 16:34 1683 Dec 14 12:29 1684 Feb 19 06:04 1684 Feb 19 02:02 1684 Feb 26 07:34 1684 Apr 27 21:48	20°N25'46 17°N00'14 17°N01'15 15°RN 13°N31'10 15°N 21°N38'44 23°N54'55 23°N54'54 23°N56'41 26°N09'56 0°M 3°M58'07 0°M33'59 0°M34'47	8.19078 AU 1°13'41 1°13'41 10.23674 AU 1°47'11
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	1676 Nov 13 17:11 1677 Jan 19 05:45 1677 May 02 00:09 1677 May 19 20:39 1677 May 19 20:42 1677 May 20 00:16 1677 May 25 13:18 1677 Jun 06 20:18 1677 Sep 21 11:50 1677 Nov 27 23:29 1678 Feb 02 08:07 1678 May 16 21:40 1678 Jun 03 22:09 1678 Jun 03 22:09 1678 Jun 03 22:13 1678 Jun 04 02:35	22°821'13 18°854'17 26°857'14 29°815'36 29°815'37 29°816'46 0°11 1°134'59 9°155'40 6°125'43 6°126'25 2°158'18 11°107'06 13°127'14 13°127'15 13°128'41	8.09686 AU -1°45'54 1°45'54 10.06578 AU -1°58'06 8.04326 AU -1°22'04 1°22'03	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	1682 Nov 30 23:36 1683 Feb 05 13:37 1683 Feb 05 08:38 1683 Mar 03 20:46 1683 Apr 14 16:21 1683 May 26 03:32 1683 Jul 29 22:13 1683 Aug 16 20:47 1683 Aug 16 20:44 1683 Aug 17 02:18 1683 Sep 03 15:28 1683 Oct 06 16:34 1683 Dec 14 12:29 1684 Feb 19 06:04 1684 Feb 19 02:02 1684 Feb 26 07:34 1684 Apr 27 21:48 1684 Jun 26 15:58	20°N25'46 17°N00'14 17°N01'15 15°N 13°N31'10 15°N 21°N38'44 23°N54'55 23°N54'54 23°N56'41 26°N09'56 0°M 3°M58'07 0°M33'59 0°M34'47 30°RN 27°N05'26 0°M	8.19078 AU 1°13'41 1°13'41 10.23674 AU 1°47'11
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	1676 Nov 13 17:11 1677 Jan 19 05:45 1677 May 02 00:09 1677 May 19 20:39 1677 May 19 20:42 1677 May 20 00:16 1677 May 25 13:18 1677 Jun 06 20:18 1677 Sep 21 11:50 1677 Nov 27 23:29 1677 Nov 27 20:02 1678 Feb 02 08:07 1678 May 16 21:40 1678 Jun 03 22:09 1678 Jun 03 22:13 1678 Jun 04 02:35 1678 Jun 02 00:52	22°821'13 18°854'17 26°857'14 29°815'36 29°815'37 29°816'46 0°11 1°134'59 9°155'40 6°125'43 6°126'25 2°158'18 11°107'06 13°127'14 13°127'15 13°128'41 15°148'06	8.09686 AU -1°45'54 1°45'54 10.06578 AU -1°58'06 8.04326 AU -1°22'04 1°22'03 10.02593 AU	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	1682 Nov 30 23:36 1683 Feb 05 13:37 1683 Feb 05 08:38 1683 Mar 03 20:46 1683 Apr 14 16:21 1683 May 26 03:32 1683 Jul 29 22:13 1683 Aug 16 20:47 1683 Aug 16 20:44 1683 Aug 17 02:18 1683 Sep 03 15:28 1683 Oct 06 16:34 1683 Dec 14 12:29 1684 Feb 19 06:04 1684 Feb 19 02:02 1684 Feb 26 07:34 1684 Apr 27 21:48 1684 Jun 26 15:58	20°N25'46 17°N00'14 17°N01'15 15°N 13°N31'10 15°N 21°N38'44 23°N54'55 23°N54'54 23°N56'41 26°N09'56 0°M 3°M58'07 0°M33'59 0°M34'47 30°RN 27°N05'26 0°M	8.19078 AU 1°13'41 1°13'41 10.23674 AU 1°47'11
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	1676 Nov 13 17:11 1677 Jan 19 05:45 1677 May 02 00:09 1677 May 19 20:39 1677 May 19 20:42 1677 May 20 00:16 1677 May 25 13:18 1677 Jun 06 20:18 1677 Sep 21 11:50 1677 Nov 27 23:29 1677 Nov 27 20:02 1678 Feb 02 08:07 1678 May 16 21:40 1678 Jun 03 22:09 1678 Jun 03 22:13 1678 Jun 04 02:35 1678 Jun 04 02:35 1678 Jun 02 00:52 1678 Oct 06 03:28	22°821'13 18°854'17 26°857'14 29°815'36 29°815'37 29°816'46 0°11 1°134'59 9°155'40 6°125'43 6°126'25 2°158'18 11°107'06 13°127'14 13°127'15 13°128'41 15°148'06 24°108'27 20°138'52	8.09686 AU -1°45'54 1°45'54 10.06578 AU -1°58'06 8.04326 AU -1°22'04 1°22'03 10.02593 AU	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction	1682 Nov 30 23:36 1683 Feb 05 13:37 1683 Feb 05 08:38 1683 Mar 03 20:46 1683 Apr 14 16:21 1683 May 26 03:32 1683 Jul 29 22:13 1683 Aug 16 20:47 1683 Aug 16 20:44 1683 Aug 17 02:18 1683 Sep 03 15:28 1683 Oct 06 16:34 1683 Dec 14 12:29 1684 Feb 19 06:04 1684 Feb 19 02:02 1684 Feb 19 02:02 1684 Feb 26 07:34 1684 Apr 27 21:48 1684 Jun 26 15:58 1684 Aug 30 00:17	20°N25'46 17°N00'14 17°N01'15 15°RN 13°N31'10 15°N 21°N38'44 23°N54'55 23°N56'41 26°N09'56 0°M 3°M58'07 0°M33'59 0°M34'47 30°RN 27°N05'26 0°M 5°M07'29	8.19078 AU 1°13'41 1°13'41 10.23674 AU 1°47'11 8.28620 AU
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	1676 Nov 13 17:11 1677 Jan 19 05:45 1677 May 02 00:09 1677 May 19 20:39 1677 May 19 20:42 1677 May 20 00:16 1677 May 25 13:18 1677 Jun 06 20:18 1677 Sep 21 11:50 1677 Nov 27 23:29 1677 Nov 27 20:02 1678 Feb 02 08:07 1678 May 16 21:40 1678 Jun 03 22:09 1678 Jun 03 22:13 1678 Jun 04 02:35 1678 Jun 04 02:35 1678 Jun 02 00:52 1678 Oct 06 03:28 1678 Dec 12 04:59	22°821'13 18°854'17 26°857'14 29°815'36 29°815'37 29°816'46 0°11 1°134'59 9°155'40 6°125'43 6°126'25 2°158'18 11°107'06 13°127'14 13°127'15 13°128'41 15°148'06 24°108'27 20°138'52 20°139'40	8.09686 AU -1°45'54 1°45'54 10.06578 AU -1°58'06 8.04326 AU -1°22'04 1°22'03 10.02593 AU -1°24'58	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	1682 Nov 30 23:36 1683 Feb 05 13:37 1683 Feb 05 08:38 1683 Mar 03 20:46 1683 Apr 14 16:21 1683 May 26 03:32 1683 Jul 29 22:13 1683 Aug 16 20:47 1683 Aug 16 20:44 1683 Aug 17 02:18 1683 Sep 03 15:28 1683 Oct 06 16:34 1683 Dec 14 12:29 1684 Feb 19 06:04 1684 Feb 19 02:02 1684 Feb 19 02:02 1684 Feb 26 07:34 1684 Apr 27 21:48 1684 Jun 26 15:58 1684 Aug 12 06:13	20° N 25'46 17° N 00'14 17° N 01'15 15° N 13° N 31'10 15° N 21° N 38'44 23° N 54'55 23° N 56'41 26° N 09'56 0° M 3° M 58'07 0° M 33'59 0° M 34'47 30° R N 27° N 05'26 0° M 5° M 07'29 7° M 20'54 7° M 20'54 7° M 20'53	8.19078 AU 1°13'41 1°13'41 10.23674 AU 1°47'11 8.28620 AU 1°38'09
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	1676 Nov 13 17:11 1677 Jan 19 05:45 1677 May 02 00:09 1677 May 19 20:39 1677 May 19 20:42 1677 May 20 00:16 1677 May 25 13:18 1677 Jun 06 20:18 1677 Sep 21 11:50 1677 Nov 27 23:29 1677 Nov 27 20:02 1678 Feb 02 08:07 1678 May 16 21:40 1678 Jun 03 22:09 1678 Jun 03 22:13 1678 Jun 04 02:35 1678 Jun 04 02:35 1678 Oct 06 03:28 1678 Dec 12 04:59 1678 Dec 12 01:10	22°821'13 18°854'17 26°857'14 29°815'36 29°815'37 29°816'46 0°11 1°134'59 9°155'40 6°125'43 6°126'25 2°158'18 11°107'06 13°127'14 13°127'15 13°128'41 15°148'06 24°108'27 20°138'52	8.09686 AU -1°45'54 1°45'54 10.06578 AU -1°58'06 8.04326 AU -1°22'04 1°22'03 10.02593 AU -1°24'58	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	1682 Nov 30 23:36 1683 Feb 05 13:37 1683 Feb 05 08:38 1683 Mar 03 20:46 1683 Apr 14 16:21 1683 May 26 03:32 1683 Jul 29 22:13 1683 Aug 16 20:47 1683 Aug 16 20:44 1683 Aug 17 02:18 1683 Sep 03 15:28 1683 Oct 06 16:34 1683 Dec 14 12:29 1684 Feb 19 06:04 1684 Feb 19 02:02 1684 Feb 19 02:02 1684 Feb 26 07:34 1684 Apr 27 21:48 1684 Jun 26 15:58 1684 Aug 30 00:17	20° N 25'46 17° N 00'14 17° N 01'15 15° N 13° N 31'10 15° N 21° N 38'44 23° N 54'55 23° N 56'41 26° N 09'56 0° M 3° M 58'07 0° M 33'59 0° M 34'47 30° R N 27° N 05'26 0° M 5° M 07'29 7° M 20'54 7° M 20'54 7° M 20'53	8.19078 AU 1°13'41 1°13'41 10.23674 AU 1°47'11 8.28620 AU 1°38'09 1°38'09

retrograde	1684 Dec 26 17:52	17° m y 12'27			1691 Feb 14 20:16	0° ∡ ¹	
opposition	1685 Mar 03 17:12	13° m 49'44	2°13'51	retrograde	1691 Mar 09 12:08	0° ∡ ¹25'56	
min. Earth dist.	1685 Mar 03 14:29	13° Mp 50'16	8.39234 AU		1691 Apr 01 10:53	30°RM₊	
direct	1685 May 11 21:28	10° m) 21'57		opposition	1691 May 18 01:02	27°M08'18	2°14'58
evening set	1685 Aug 26 04:39	18° m) 17'20		min. Earth dist.	1691 May 18 03:11	27°M07'54	8.97779 AU
evening sec	1003 Hug 20 01.37	10 110 17 20		direct	1691 Jul 28 06:21	23°M46'58	0.57775110
agniumation	1605 Cap 12 17:42	200 m 27140	1°56'55	direct	1691 Oct 30 18:17	23 11 0 40 38	
conjunction	1685 Sep 12 17:42	20° m) 27'49					
minimum elong	1685 Sep 12 17:40	20° m 27'48	1°56'55	evening set	1691 Nov 08 05:34	0° ≯ 58'01	
max. Earth dist.	1685 Sep 12 20:22	20° Mg 28'39	10.44713 AU				
morning rise	1685 Sep 30 02:07	22° Mp 36'52		conjunction	1691 Nov 24 22:10	2° ∡ ¹55'46	1°41'44
	1685 Dec 27 13:49	0∘ 亚		minimum elong	1691 Nov 24 22:13	2° ∡ ¹55'47	1°41'44
retrograde	1686 Jan 08 15:33	0° ≙ 07'55		max. Earth dist.	1691 Nov 24 19:12	2° ∡ ¹54'53	11.00414 AU
	1686 Jan 20 17:38	30°R, MD		morning rise	1691 Dec 11 12:31	4° ∡ ¹52'51	
opposition	1686 Mar 16 23:03	26° m/ 46'29	2°32'57	retrograde	1692 Mar 20 05:34	11° × 751'47	
min. Earth dist.	1686 Mar 16 21:26	26° m) 46'48	8.50437 AU	opposition	1692 May 29 04:52	8° ∡ ³34'15	1°52'46
direct	1686 May 25 15:39	23° m 19'40	0.50 157 110	min. Earth dist.	1692 May 29 07:03	8° × 33'51	9.02742 AU
direct	•	ე∘ <u>ഹ</u>			-	5°×713'51	7.02/42 AO
	1686 Aug 30 05:30			direct	1692 Aug 08 10:26		
evening set	1686 Sep 08 16:28	1° ≏ 07'32		evening set	1692 Nov 18 16:48	12° ∡ 19'59	
		_				_	
conjunction	1686 Sep 26 00:35	3° ≏ 15′06	2°09'26	conjunction	1692 Dec 05 08:25	14° ⋌ 16'59	1°21'50
minimum elong	1686 Sep 26 00:33	3° ≏ 15'06	2°09'26	minimum elong	1692 Dec 05 08:27	14° ⋌ 17'00	1°21'50
max. Earth dist.	1686 Sep 26 01:43	3° ₽ 15'27	10.55981 AU	max. Earth dist.	1692 Dec 05 05:40	14° ∤ 16'10	11.04378 AU
morning rise	1686 Oct 13 04:08	5° ≙ 21'15		morning rise	1692 Dec 21 22:17	16° ∡ 13'32	
retrograde	1687 Jan 21 05:12	12° - 44′24		retrograde	1693 Apr 01 00:20	23° ∡ 11'46	
opposition	1687 Mar 29 23:22	9° ≏ 24'07	2°44'05	opposition	1693 Jun 10 07:09	19° ∡ 54′08	1°26'22
min. Earth dist.	1687 Mar 29 22:04	9° ₽ 24'22	8.61702 AU	min. Earth dist.	1693 Jun 10 09:24	19° х 53'43	9.05613 AU
direct	1687 Jun 08 03:56	5° £ 58'22	0.01702 AC	direct	1693 Aug 20 11:14	16° ₹ 34'32	7.03013 AC
					=		
evening set	1687 Sep 21 17:47	13° ≏ 38'16		evening set	1693 Nov 30 01:09	23° ₹ 37'02	
		_				_	
conjunction	1687 Oct 08 21:30	15° ≏ 43'07	2°15'29	conjunction	1693 Dec 16 16:11	25° ≯ 33'42	0°58'51
minimum elong	1687 Oct 08 21:29	15° ≏ 43'07	2°15'29	minimum elong	1693 Dec 16 16:13	25° ∡ ³33'43	0°58'51
max. Earth dist.	1687 Oct 08 22:03	15° ≏ 43'17	10.67062 AU	max. Earth dist.	1693 Dec 16 12:57	25° ∡ ³32'45	11.06196 AU
morning rise	1687 Oct 25 20:45	17° ≏ 46'39		morning rise	1694 Jan 02 06:14	27° ∡ ³30′09	
retrograde	1688 Feb 02 13:57	25° ഫ 02'38			1694 Jan 24 23:15	8°0	
opposition	1688 Apr 10 18:15	21° ≏ 43'19	2°47'20	retrograde	1694 Apr 12 20:08	4° ට 29'10	
min. Earth dist.	1688 Apr 10 17:17	21° ≏ 43'30	8.72507 AU	opposition	1694 Jun 22 08:59	1°る11'15	0°56'44
direct	1688 Jun 20 09:03	18° ≏ 18'43	0.72307 AO	min. Earth dist.	1694 Jun 22 12:07	1°る1113	9.06305 AU
				iiiii. Eartii tist.			9.00303 AU
evening set	1688 Oct 03 09:05	25° ≏ 50'35			1694 Jul 08 20:44	30°₹ ৴	
		_		direct	1694 Sep 01 07:18	27° ∡ 52'17	
conjunction	1688 Oct 20 09:04	27° £ 53'05			1694 Oct 23 13:26	0°る	
minimum elong	1688 Oct 20 09:04	27° ≙ 53'05	2°15'16	evening set	1694 Dec 11 08:12	4° る 52'33	
max. Earth dist.	1688 Oct 20 09:19	27° ♀ 53'09	10.77447 AU				
morning rise	1688 Nov 06 04:42	29° ≙ 54'19		conjunction	1694 Dec 27 23:00	6° る 49'15	0°33'37
	1688 Nov 06 23:56	0° M .		minimum elong	1694 Dec 27 23:01	6° る 49'16	0°33'37
retrograde	1689 Feb 13 18:03	7° M .04'08		max. Earth dist.	1694 Dec 27 18:35	6° る 47'57	11.05810 AU
opposition	1689 Apr 23 08:27	3°M45'36	2°43'06	morning rise	1695 Jan 13 13:54	8° る 46'00	
min. Earth dist.	1689 Apr 23 08:20	3°ML45'37	8.82372 AU	retrograde	1695 Apr 24 15:43	15° る 47'23	
direct	1689 Jul 03 05:13	0°M22'09	0.02372710	opposition	1695 Jul 04 11:12	13° る 1725	0°24'54
evening set	1689 Oct 15 15:15	7°ML46'18		min. Earth dist.	1695 Jul 04 11:12 1695 Jul 04 15:07	12 32 836	9.04788 AU
evening set	1089 Oct 13 13.13	/ 11640 18					9.04/88 AU
	1.000.37		2000:10	direct	1695 Sep 13 03:11	9°る10'22	
conjunction	1689 Nov 01 12:03	9° ™ 46'48	2°09'10	evening set	1695 Dec 22 15:46	16° る 09'58	
minimum elong	1689 Nov 01 12:04	9° M 46'49	2°09'09				
max. Earth dist.	1689 Nov 01 11:35	9° ™ 46'40	10.86690 AU	conjunction	1696 Jan 08 06:49	18° る 07'03	0°07'02
morning rise	1689 Nov 18 05:00	11°M46'13		minimum elong	1696 Jan 08 06:49	18° る 07'03	0°07'02
	1689 Dec 17 14:20	15° M ₊		behind sun begin	1696 Jan 08 00:21	18° පි 05'10	
retrograde	1690 Feb 25 16:06	18°M51'03		behind sun end	1696 Jan 08 13:17	18° පි 08'56	
opposition	1690 May 05 18:33	15°M33'04	2°32'02	max. Earth dist.	1696 Jan 08 02:02		11.03218 AU
min. Earth dist.	1690 May 05 19:53	15°M32'49	8.90901 AU	morning rise	1696 Jan 24 22:47	20° පි 04'25	2.22210110
mm. Latin dist.	•		5.70701 AU	desc. node		20 ප 04 23 26° පි 47'36	
J: 4	1690 May 13 03:20	15°RM			1696 Apr 14 09:43		
direct	1690 Jul 15 20:15	12°M10'43		retrograde	1696 May 05 16:50	27°る09'41	0000:07
	1690 Sep 14 17:14	15° M ₊		opposition	1696 Jul 15 14:44	23° ろ 50'30	
evening set	1690 Oct 27 13:38	19° M 27′51		min. Earth dist.	1696 Jul 15 18:26	23° る 49'49	9.01108 AU
				direct	1696 Sep 23 23:35	20° る 32'09	
conjunction	1690 Nov 13 07:55	21°M26'45	1°57'45	evening set	1697 Jan 02 01:27	27° る 32'33	
minimum elong	1690 Nov 13 07:58	21°M26'45	1°57'45				
max. Earth dist.	1690 Nov 13 05:46	21°M26'06	10.94442 AU	conjunction	1697 Jan 18 17:10	29° る 30'22	-0°20'07
morning rise	1690 Nov 29 23:13	23°M24'47		minimum elong	1697 Jan 18 17:10	29° る 30'22	0°20'08
<i>5</i>		,		<i>G</i>			

D d F	1607 1 10 12 16	200-720112	10.00507 411		1702 4 02 22 25	1200020140	201.4102
max. Earth dist.	1697 Jan 18 13:16		10.98507 AU	minimum elong	1703 Apr 02 23:35	12° Y 28'49	
	1697 Jan 22 20:53 1697 Feb 04 10:24	0°≈ 1°≈ •2°!42		max. Earth dist.	1703 Apr 02 21:38	12°° Y ′28°13	10.40251 AU
morning rise retrograde	1697 May 17 22:30	1°≈28'43 8°≈39'21		morning rise retrograde	1703 Apr 20 08:40 1703 Aug 05 01:36	14 γ 39 12 22° γ '40'11	
opposition	1697 Jul 27 20:54	5°≈19'13	0041110	opposition	1703 Aug 03 01:30 1703 Oct 13 07:02	19° Υ 12'39	2017117
min. Earth dist.	1697 Jul 27 23:52	5°≈18'40	8.95398 AU	min. Earth dist.	1703 Oct 13 07:02 1703 Oct 13 07:47	19 γ 12 39 19° γ 12'30	8.34788 AU
direct	1697 Oct 05 19:09	2°≈00'53	6.93396 AU	direct	1703 Oct 13 07:47 1703 Dec 19 08:03	15° Υ 49'46	6.34766 AU
evening set	1698 Jan 13 14:53	2 ≈00 33 9°≈03'34		evening set	1703 Dec 19 08:03 1704 Mar 29 09:10	23° Y '31'57	
evening set	1096 Jan 13 14.33	9 ~ 03 34		evening set	1704 Wai 29 09.10	23 3137	
conjunction	1698 Jan 30 07:30	11° ≈ 02'28	-0°46'41	conjunction	1704 Apr 15 17:45	25° Y '43'33	-2°14'54
minimum elong	1698 Jan 30 07:29	11° ≈ 02'27	0°46'41	minimum elong	1704 Apr 15 17:46	25° Y '43'33	
max. Earth dist.	1698 Jan 30 03:42		10.91851 AU	max. Earth dist.	1704 Apr 15 16:04		10.29263 AU
morning rise	1698 Feb 16 02:25	13° ≈ 02'06		morning rise	1704 May 03 07:03	27° Y ′56'39	
8	1698 Mar 05 10:42	15° ≈		3	1704 May 20 06:32	0°8	
retrograde	1698 May 30 10:10	20°≈19'25		retrograde	1704 Aug 18 06:09	6° 8 05'27	
opposition	1698 Aug 09 06:28	16°≈58'12	-1°13'03	opposition	1704 Oct 25 23:51	2° 8 36'57	-2°44'40
min. Earth dist.	1698 Aug 09 09:22	16° ≈ 57'39	8.87870 AU	min. Earth dist.	1704 Oct 26 00:19	2° 8 36'51	8.24299 AU
	1698 Sep 06 10:28	15°R≈			1704 Dec 02 03:22	30° ₹ Υ	
direct	1698 Oct 17 17:21	13° ≈ 39'37		direct	1704 Dec 31 17:10	29° Y 12'47	
	1698 Nov 26 20:00	15° ≈			1705 Jan 29 23:13	0°8	
evening set	1699 Jan 25 09:48	20°≈46′05		evening set	1705 Apr 12 09:17	7° 8 03'27	
conjunction	1699 Feb 11 03:36	22° ≈ 46′22	-1°11'42	conjunction	1705 Apr 29 22:34	9° 8 17'49	-2°08'24
minimum elong	1699 Feb 11 03:34	22° ≈ 46′22	1°11'42	minimum elong	1705 Apr 29 22:37	9° 8 17'50	2°08'25
max. Earth dist.	1699 Feb 10 23:11	22° ≈ 45′02	10.83500 AU	max. Earth dist.	1705 Apr 29 21:58	9° 8 17'37	10.19444 AU
morning rise	1699 Feb 28 00:39	24° ≈ 47'38		morning rise	1705 May 17 16:17	11° 8 33'35	
	1699 Apr 19 23:19	0° ∀			1705 Jun 15 15:03	15° 8	
retrograde	1699 Jun 12 03:15	2°) 12'43		retrograde	1705 Sep 01 16:02	19° 8 48'23	
	1699 Aug 06 03:11	30° R ≈		opposition	1705 Nov 08 21:22	16° 8 19'11	-2°32'12
opposition	1699 Aug 21 20:03	28° ≈ 50′18	-1°42'28	min. Earth dist.	1705 Nov 08 21:09	16° 8 19'14	8.15297 AU
min. Earth dist.	1699 Aug 21 23:20	28° ≈ 49'40	8.78808 AU		1705 Nov 25 13:07	15°₹ ႘	
direct	1699 Oct 29 18:24	25° ≈ 31'14		direct	1706 Jan 14 09:20	12° 8 53'43	
	1700 Jan 13 12:20	0° ∀			1706 Mar 03 22:03	15° 8	
evening set	1700 Feb 06 11:21	2°) 42'54			1707 A 27 10 20	200 🖵 52111	
Č	1700100 00 11.21	2 /(1231		evening set	1706 Apr 26 18:38	20° 8 52'11	
				-	•		
conjunction	1700 Feb 23 06:54	4°) 44′53		conjunction	1706 May 14 12:48	23° 8 09'08	
conjunction minimum elong	1700 Feb 23 06:54 1700 Feb 23 06:51	4°) 44'53 4°) 44'52	1°34'04	conjunction minimum elong	1706 May 14 12:48 1706 May 14 12:51	23° 8 09'08 23° 8 09'09	1°54'28
conjunction minimum elong max. Earth dist.	1700 Feb 23 06:54 1700 Feb 23 06:51 1700 Feb 23 02:53	4°¥44′53 4°¥44′52 4°¥43′40		conjunction minimum elong max. Earth dist.	1706 May 14 12:48 1706 May 14 12:51 1706 May 14 13:47	23°809'08 23°809'09 23°809'26	
conjunction minimum elong max. Earth dist. morning rise	1700 Feb 23 06:54 1700 Feb 23 06:51 1700 Feb 23 02:53 1700 Mar 12 06:18	4°¥44'53 4°¥44'52 4°¥43'40 6°¥48'02	1°34'04	conjunction minimum elong	1706 May 14 12:48 1706 May 14 12:51 1706 May 14 13:47 1706 Jun 01 10:41	23°809'08 23°809'09 23°809'26 25°827'16	1°54'28
conjunction minimum elong max. Earth dist. morning rise retrograde	1700 Feb 23 06:54 1700 Feb 23 06:51 1700 Feb 23 02:53 1700 Mar 12 06:18 1700 Jun 25 02:35	4°\tau4'53 4°\tau4'52 4°\tau43'40 6°\tau48'02 14°\tau21'47	1°34'04 10.73772 AU	conjunction minimum elong max. Earth dist. morning rise	1706 May 14 12:48 1706 May 14 12:51 1706 May 14 13:47 1706 Jun 01 10:41 1706 Jul 10 13:33	23°809'08 23°809'09 23°809'26 25°827'16 0°II	1°54'28
conjunction minimum elong max. Earth dist. morning rise retrograde opposition	1700 Feb 23 06:54 1700 Feb 23 06:51 1700 Feb 23 02:53 1700 Mar 12 06:18 1700 Jun 25 02:35 1700 Sep 03 14:37	4°\;\;44'53 4°\;\;\;44'52 4°\;\;43'40 6°\;\;48'02 14°\;\;\;21'47 10°\;\;58'03	1°34'04 10.73772 AU -2°08'03	conjunction minimum elong max. Earth dist. morning rise retrograde	1706 May 14 12:48 1706 May 14 12:51 1706 May 14 13:47 1706 Jun 01 10:41 1706 Jul 10 13:33 1706 Sep 16 04:52	23°809'08 23°809'09 23°809'26 25°827'16 0°II 3°II45'47	1°54'28 10.11427 AU
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	1700 Feb 23 06:54 1700 Feb 23 06:51 1700 Feb 23 02:53 1700 Mar 12 06:18 1700 Jun 25 02:35 1700 Sep 03 14:37 1700 Sep 03 17:31	4°\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;	1°34'04 10.73772 AU -2°08'03	conjunction minimum elong max. Earth dist. morning rise retrograde opposition	1706 May 14 12:48 1706 May 14 12:51 1706 May 14 13:47 1706 Jun 01 10:41 1706 Jul 10 13:33 1706 Sep 16 04:52 1706 Nov 22 22:42	23°႘09'08 23°႘09'09 23°႘09'26 25°႘27'16 0°Ⅲ 3°Ⅲ45'47 0°Ⅲ16'12	1°54'28 10.11427 AU -2°10'35
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	1700 Feb 23 06:54 1700 Feb 23 06:51 1700 Feb 23 02:53 1700 Mar 12 06:18 1700 Jun 25 02:35 1700 Sep 03 14:37 1700 Sep 03 17:31 1700 Nov 11 01:26	4°\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;	1°34'04 10.73772 AU -2°08'03	conjunction minimum elong max. Earth dist. morning rise retrograde	1706 May 14 12:48 1706 May 14 12:51 1706 May 14 13:47 1706 Jun 01 10:41 1706 Jul 10 13:33 1706 Sep 16 04:52 1706 Nov 22 22:42 1706 Nov 22 21:21	23°႘09'08 23°႘09'09 23°႘09'26 25°႘27'16 0°Ⅲ 3°Ⅲ45'47 0°Ⅲ16'12 0°Ⅲ16'28	1°54'28 10.11427 AU
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	1700 Feb 23 06:54 1700 Feb 23 06:51 1700 Feb 23 02:53 1700 Mar 12 06:18 1700 Jun 25 02:35 1700 Sep 03 14:37 1700 Sep 03 17:31	4°\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;\;	1°34'04 10.73772 AU -2°08'03	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	1706 May 14 12:48 1706 May 14 12:51 1706 May 14 13:47 1706 Jun 01 10:41 1706 Jul 10 13:33 1706 Sep 16 04:52 1706 Nov 22 22:42 1706 Nov 22 21:21 1706 Nov 26 05:46	23°႘09'08 23°႘09'09 23°႘09'26 25°႘27'16 0°Ⅲ 3°Ⅲ45'47 0°Ⅲ16'12 0°Ⅲ16'28 30°ℝ႘	1°54'28 10.11427 AU -2°10'35
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	1700 Feb 23 06:54 1700 Feb 23 06:51 1700 Feb 23 02:53 1700 Mar 12 06:18 1700 Jun 25 02:35 1700 Sep 03 14:37 1700 Sep 03 17:31 1700 Nov 11 01:26 1701 Feb 18 20:38	4°\text{\tint{\text{\tint{\text{\tint{\text{\te}\text{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\texi{\text{\texi}\text{\text{\texit{\texi{\texi{\text{\texi}\text{\text{\text{\text{\text{\tex{	1°34'04 10.73772 AU -2°08'03 8.68559 AU	conjunction minimum elong max. Earth dist. morning rise retrograde opposition	1706 May 14 12:48 1706 May 14 12:51 1706 May 14 13:47 1706 Jun 01 10:41 1706 Jul 10 13:33 1706 Sep 16 04:52 1706 Nov 22 22:42 1706 Nov 22 21:21 1706 Nov 26 05:46 1707 Jan 28 09:10	23°809'08 23°809'09 23°809'26 25°827'16 0°II 3°II45'47 0°II16'12 0°II16'28 30°R8 26°849'29	1°54'28 10.11427 AU -2°10'35
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction	1700 Feb 23 06:54 1700 Feb 23 06:51 1700 Feb 23 02:53 1700 Mar 12 06:18 1700 Jun 25 02:35 1700 Sep 03 14:37 1700 Sep 03 17:31 1700 Nov 11 01:26 1701 Feb 18 20:38	4°\text{\tint{\text{\tint{\text{\tint{\text{\te}\text{\texi{\text{\texi}\text{\text{\text{\text{\text{\text{\text{\texi{\text{\texi}\text{\texit{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\text{\texi{\tex{	1°34'04 10.73772 AU -2°08'03 8.68559 AU -1°52'39	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	1706 May 14 12:48 1706 May 14 12:51 1706 May 14 13:47 1706 Jun 01 10:41 1706 Jul 10 13:33 1706 Sep 16 04:52 1706 Nov 22 22:42 1706 Nov 22 21:21 1706 Nov 26 05:46 1707 Jan 28 09:10 1707 Mar 29 18:29	23°809'08 23°809'26 25°827'16 0°II 3°II45'47 0°II16'12 0°II16'28 30°R8 26°849'29 0°II	1°54'28 10.11427 AU -2°10'35
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	1700 Feb 23 06:54 1700 Feb 23 06:51 1700 Feb 23 02:53 1700 Mar 12 06:18 1700 Jun 25 02:35 1700 Sep 03 14:37 1700 Sep 03 17:31 1700 Nov 11 01:26 1701 Feb 18 20:38 1701 Mar 07 18:34 1701 Mar 07 18:32	4°\text{\tint{\text{\tint{\text{\tint{\text{\te}\text{\texi}\text{\text{\text{\text{\text{\text{\text{\texi{\text{\texi}\text{\text{\texit{\texi{\text{\texi}\text{\text{\text{\text{\text{\text{\tex{	1°34'04 10.73772 AU -2°08'03 8.68559 AU -1°52'39 1°52'39	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	1706 May 14 12:48 1706 May 14 12:51 1706 May 14 13:47 1706 Jun 01 10:41 1706 Jul 10 13:33 1706 Sep 16 04:52 1706 Nov 22 22:42 1706 Nov 22 21:21 1706 Nov 26 05:46 1707 Jan 28 09:10	23°809'08 23°809'09 23°809'26 25°827'16 0°II 3°II45'47 0°II16'12 0°II16'28 30°R8 26°849'29	1°54'28 10.11427 AU -2°10'35
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	1700 Feb 23 06:54 1700 Feb 23 06:51 1700 Feb 23 02:53 1700 Mar 12 06:18 1700 Jun 25 02:35 1700 Sep 03 14:37 1700 Sep 03 17:31 1700 Nov 11 01:26 1701 Feb 18 20:38 1701 Mar 07 18:34 1701 Mar 07 18:32 1701 Mar 07 15:50	4°\text{\tint{\text{\tint{\text{\te}\text{\texi{\text{\texi}\text{\text{\texit{\text{\texi}\text{\text{\text{\text{\text{\text{\text{\tex{	1°34'04 10.73772 AU -2°08'03 8.68559 AU -1°52'39	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	1706 May 14 12:48 1706 May 14 12:51 1706 May 14 13:47 1706 Jun 01 10:41 1706 Jul 10 13:33 1706 Sep 16 04:52 1706 Nov 22 22:42 1706 Nov 22 21:21 1706 Nov 26 05:46 1707 Jan 28 09:10 1707 Mar 29 18:29 1707 May 11 11:46	23°႘09'08 23°႘09'09 23°႘09'26 25°႘27'16 0°Ⅲ 3°Ⅲ45'47 0°Ⅲ16'12 0°Ⅲ16'28 30°ℝ႘ 26°႘49'29 0°Ⅲ 4°Ⅲ54'34	1°54'28 10.11427 AU -2°10'35 8.08358 AU
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	1700 Feb 23 06:54 1700 Feb 23 06:51 1700 Feb 23 02:53 1700 Mar 12 06:18 1700 Jun 25 02:35 1700 Sep 03 14:37 1700 Sep 03 17:31 1700 Nov 11 01:26 1701 Feb 18 20:38 1701 Mar 07 18:34 1701 Mar 07 18:32 1701 Mar 07 15:50 1701 Mar 24 20:40	4°\text{\tiny{\text{\tinx}\text{\tin\text{\texi{\text{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\texit{\tex{	1°34'04 10.73772 AU -2°08'03 8.68559 AU -1°52'39 1°52'39	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction	1706 May 14 12:48 1706 May 14 12:51 1706 May 14 13:47 1706 Jun 01 10:41 1706 Jul 10 13:33 1706 Sep 16 04:52 1706 Nov 22 22:42 1706 Nov 22 21:21 1706 Nov 26 05:46 1707 Jan 28 09:10 1707 Mar 29 18:29 1707 May 11 11:46	23°809'08 23°809'26 25°827'16 0°II 3°II45'47 0°II16'12 0°II16'28 30°R8 26°849'29 0°II 4°II54'34	1°54'28 10.11427 AU -2°10'35 8.08358 AU
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conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. direct evening set	1700 Feb 23 06:54 1700 Feb 23 06:51 1700 Feb 23 02:53 1700 Mar 12 06:18 1700 Jun 25 02:35 1700 Sep 03 14:37 1700 Sep 03 17:31 1700 Nov 11 01:26 1701 Feb 18 20:38 1701 Mar 07 18:34 1701 Mar 07 18:32 1701 Mar 07 15:50 1701 Mar 07 15:50 1701 Jul 08 10:51 1701 Sep 16 14:29 1701 Sep 16 16:23 1701 Nov 23 13:54 1702 Mar 03 15:02 1702 Mar 20 15:55 1702 Mar 20 15:55 1702 Mar 20 14:03 1702 Mar 24 01:38 1702 Apr 06 21:14 1702 Jul 22 03:00	4°\tau4'53 4°\tau4'52 4°\tau4'52 4°\tau4'52 14°\tau4'52 14°\tau4'147 10°\tau58'03 10°\tau57'30 7°\tau8'19 14°\tau56'20 17°\tau0'20 16°\tau59'30 19°\tau0'20 16°\tau5'39 26°\tau48'37 23°\tau23'31 23°\tau23'08 20°\tau0'253 27°\tau28'16 29°\tau3'35 29°\tau3'35 29°\tau3'35 0°\tau1'\tau4'218 9°\tau3'29	1°34'04 10.73772 AU -2°08'03 8.68559 AU -1°52'39 1°52'39 10.63038 AU -2°28'22 8.57511 AU -2°06'19 2°06'19 10.51711 AU	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction min. Earth dist. direct evening set	1706 May 14 12:48 1706 May 14 12:51 1706 May 14 13:47 1706 Jun 01 10:41 1706 Jul 10 13:33 1706 Sep 16 04:52 1706 Nov 22 22:42 1706 Nov 22 21:21 1706 Nov 26 05:46 1707 Jan 28 09:10 1707 Mar 29 18:29 1707 May 11 11:46 1707 May 29 10:25 1707 May 29 10:28 1707 May 29 13:19 1707 Jun 16 11:42 1707 Sep 30 18:43 1707 Dec 07 02:28 1707 Dec 06 23:38 1708 Feb 11 14:26 1708 Jun 12 13:00 1708 Jun 12 13:03 1708 Jun 12 13:03 1708 Jun 12 13:03	23°809'08 23°809'26 25°827'16 0° II 3° II 45'47 0° II 16'12 0° II 16'28 30° R8 26°849'29 0° II 4° II 54'34 7° II 13'38 7° II 14'34 9° II 33'36 17° II 53'17 14° II 23'38 14° II 24'13 10° II 55'50 19° II 05'53 21° II 26'26 21° II 26'26 21° II 27'51	1°54'28 10.11427 AU -2°10'35 8.08358 AU -1°33'35 10.05726 AU -1°40'49 8.03932 AU -1°06'51 1°06'52
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. direct evening set	1700 Feb 23 06:54 1700 Feb 23 06:51 1700 Feb 23 02:53 1700 Mar 12 06:18 1700 Jun 25 02:35 1700 Sep 03 14:37 1700 Sep 03 17:31 1700 Nov 11 01:26 1701 Feb 18 20:38 1701 Mar 07 18:34 1701 Mar 07 18:32 1701 Mar 07 15:50 1701 Mar 24 20:40 1701 Jul 08 10:51 1701 Sep 16 14:29 1701 Sep 16 16:23 1701 Nov 23 13:54 1702 Mar 03 15:02 1702 Mar 20 15:55 1702 Mar 20 15:55 1702 Mar 24 01:38 1702 Mar 24 01:38 1702 Apr 06 21:14 1702 Jul 22 03:00 1702 Sep 29 19:48	4°\text{\te}\text{	1°34'04 10.73772 AU -2°08'03 8.68559 AU -1°52'39 1°52'39 10.63038 AU -2°28'22 8.57511 AU -2°06'19 2°06'19 10.51711 AU	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction min. Earth dist. direct evening set	1706 May 14 12:48 1706 May 14 12:51 1706 May 14 13:47 1706 Jun 01 10:41 1706 Jul 10 13:33 1706 Sep 16 04:52 1706 Nov 22 22:42 1706 Nov 22 21:21 1706 Nov 26 05:46 1707 Jan 28 09:10 1707 Mar 29 18:29 1707 May 11 11:46 1707 May 29 10:25 1707 May 29 10:28 1707 May 29 10:28 1707 Jun 16 11:42 1707 Sep 30 18:43 1707 Dec 07 02:28 1707 Dec 06 23:38 1708 Feb 11 14:26 1708 Jun 12 13:00 1708 Jun 12 13:03 1708 Jun 12 13:03 1708 Jun 12 17:23 1708 Jun 30 16:38	23°809'08 23°809'26 25°827'16 0°II 3°II45'47 0°II16'12 0°II16'28 30°R8 26°849'29 0°II 4°II54'34 7°II13'38 7°II14'34 9°II33'36 17°II53'17 14°II23'38 14°II24'13 10°II55'50 19°II05'53 21°II26'26 21°II26'26 21°II27'51 23°II47'28	1°54'28 10.11427 AU -2°10'35 8.08358 AU -1°33'35 10.05726 AU -1°40'49 8.03932 AU -1°06'51 1°06'52
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. direct evening set	1700 Feb 23 06:54 1700 Feb 23 06:51 1700 Feb 23 02:53 1700 Mar 12 06:18 1700 Jun 25 02:35 1700 Sep 03 14:37 1700 Sep 03 17:31 1700 Nov 11 01:26 1701 Feb 18 20:38 1701 Mar 07 18:34 1701 Mar 07 18:32 1701 Mar 07 15:50 1701 Mar 24 20:40 1701 Jul 08 10:51 1701 Sep 16 14:29 1701 Sep 16 16:23 1701 Nov 23 13:54 1702 Mar 03 15:02 1702 Mar 20 15:55 1702 Mar 20 15:55 1702 Mar 24 01:38 1702 Mar 24 01:38 1702 Apr 06 21:14 1702 Jul 22 03:00 1702 Sep 29 19:48 1702 Sep 29 20:55	4°\text{\te}\text{	1°34'04 10.73772 AU -2°08'03 8.68559 AU -1°52'39 1°52'39 10.63038 AU -2°28'22 8.57511 AU -2°06'19 2°06'19 10.51711 AU	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction min. Earth dist. direct evening set	1706 May 14 12:48 1706 May 14 12:51 1706 May 14 13:47 1706 Jun 01 10:41 1706 Jul 10 13:33 1706 Sep 16 04:52 1706 Nov 22 22:42 1706 Nov 22 21:21 1706 Nov 26 05:46 1707 Jan 28 09:10 1707 Mar 29 18:29 1707 May 11 11:46 1707 May 29 10:25 1707 May 29 10:28 1707 May 29 13:19 1707 Jun 16 11:42 1707 Sep 30 18:43 1707 Dec 07 02:28 1707 Dec 06 23:38 1708 Feb 11 14:26 1708 Jun 12 13:00 1708 Jun 12 13:03 1708 Jun 12 17:23 1708 Jun 30 16:38 1708 Aug 26 13:29	23°809'08 23°809'26 25°827'16 0°II 3°II45'47 0°II16'12 0°II16'28 30°R8 26°849'29 0°II 4°II54'34 7°II13'38 7°II14'34 9°II33'36 17°II53'17 14°II23'38 14°II24'13 10°II55'50 19°II05'53 21°II26'26 21°II27'51 23°II47'28 0°©	1°54'28 10.11427 AU -2°10'35 8.08358 AU -1°33'35 10.05726 AU -1°40'49 8.03932 AU -1°06'51 1°06'52
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min. Earth dist. direct evening set	1721 May 24 23:40 1721 Aug 04 01:38 1721 Nov 14 18:14	3° ₹ 28'33 0° ₹ 08'34 7° ₹ 16'47	9.01710 AU	opposition min. Earth dist.	1727 Jun 09 12:18 1727 Aug 04 21:54 1727 Aug 05 02:47	15°R≈ 11°≈49'26 11°≈48'31	-0°58'30 8.90921 AU
conjunction	1721 Dec 01 10:10	9° ∡ 14'01	1°31'28	direct	1727 Oct 13 15:07 1728 Jan 16 05:26	8°≈30'51 15°≈	
minimum elong	1721 Dec 01 10:12	9° ∡ 14′02	1°31'28	evening set	1728 Jan 21 08:19	15° ≈ 35'49	
max. Earth dist.	1721 Dec 01 07:14	9° ∡ 13'09	11.03905 AU	-			
morning rise	1721 Dec 18 00:10	11° ∡ 10′42		conjunction	1728 Feb 07 01:37	17° ≈ 35'32	-1°00'22
retrograde	1722 Mar 27 22:20	18° ∡ 08'56		minimum elong	1728 Feb 07 01:35	17° ≈ 35'32	1°00'22
opposition	1722 Jun 06 01:09	14° ₹ 51'55	1°39'01	max. Earth dist.	1728 Feb 06 20:29	17° ≈ 34′00	10.86658 AU
min. Earth dist.	1722 Jun 06 04:17	14° ₹ 51'20	9.05697 AU	morning rise	1728 Feb 23 21:36	19° ≈ 36′07	
direct	1722 Aug 16 05:15	11° ∡ 32′27		retrograde	1728 Jun 06 14:58	26° ≈ 57'54	
evening set	1722 Nov 26 04:05	18° ∡ ³36′25		opposition	1728 Aug 16 09:43	23°≈35'48	
	1700 5 10 10 10	200 722107	1000140	min. Earth dist.	1728 Aug 16 13:37	23°≈35'04	8.82016 AU
conjunction	1722 Dec 12 19:12	20° 🖈 33'07	1°09'49	direct	1728 Oct 24 14:52	20°≈16'40	
minimum elong max. Earth dist.	1722 Dec 12 19:14 1722 Dec 12 14:59	20° ₹33'07	1°09'50 11.06768 AU	evening set	1729 Feb 01 06:43	27°≈26′16	
morning rise	1722 Dec 12 14.39 1722 Dec 29 09:14	20 x ·31 32 22° x ² 29'30	11.00/08 AU	conjunction	1729 Feb 18 01:33	29° ≈ 27'35	1024100
retrograde	1722 Dec 29 09:14 1723 Apr 08 16:57	22 x 29 30 29° x 27'49		minimum elong	1729 Feb 18 01:33	29 ≈27 33 29°≈27'34	
opposition	1723 Apr 08 10:37 1723 Jun 18 03:06	26°×10'35	1°10'48	max. Earth dist.	1729 Feb 17 21:04		10.77021 AU
min. Earth dist.	1723 Jun 18 06:38	26°× 7 09'56	9.07338 AU	max. Lartii dist.	1729 Feb 22 12:25	0° ∀	10.77021710
direct	1723 Aug 28 04:11	22° х 51'48	7.07550110	morning rise	1729 Mar 06 23:42	1° ¥ 29'58	
evening set	1723 Dec 07 11:49	29° 🖈 52'57		retrograde	1729 Jun 19 12:07	9° \ 00'12	
	1723 Dec 08 12:17	0°ਰ		opposition	1729 Aug 29 02:11	5°) €36'37	-1°56'50
				min. Earth dist.	1729 Aug 29 05:21		8.71793 AU
conjunction	1723 Dec 24 02:45	1° る 49'33	0°45'33	direct	1729 Nov 05 18:54	2°) 16'44	
minimum elong	1723 Dec 24 02:46	1° る 49'33	0°45'33	evening set	1730 Feb 13 12:30	9°) 32′18	
max. Earth dist.	1723 Dec 23 22:22	1° る 48'15	11.07220 AU				
morning rise	1724 Jan 09 17:08	3° ප 46'03		conjunction	1730 Mar 02 09:17	11°) 35′32	-1°44'38
retrograde	1724 Apr 19 13:44	10° ප් 46'08		minimum elong	1730 Mar 02 09:14	11° ∺ 35'31	1°44'38
opposition	1724 Jun 29 05:13	7° る 28'25	0°39'52	max. Earth dist.	1730 Mar 02 04:40		10.66260 AU
min. Earth dist.	1724 Jun 29 08:59	7° る 27'43	9.06551 AU	morning rise	1730 Mar 19 10:08	13°) (40′01	
direct	1724 Sep 08 00:53	4° る 10'05		retrograde	1730 Jul 02 17:08	21° 米 19′23	
evening set	1724 Dec 17 19:17	11° る 09'56		opposition	1730 Sep 10 23:51	17°) 54′20	
				min. Earth dist.	1730 Sep 11 02:55		8.60661 AU
conjunction	1725 Jan 03 10:16	13° ⋜ 06'48	0°19'28	direct	1730 Nov 18 04:11	14°) (33'31	
minimum elong max. Earth dist.	1725 Jan 03 10:16	13° る 06'48	0°19'28	evening set	1731 Feb 26 02:51	21° ¥ 56′11	
max. Earth dist.	1725 Jan 03 05:20 1725 Jan 20 01:30	13°る03'22 15°る03'49	11.05271 AU	conjunction	1731 Mar 15 02:14	24°) €01'38	2000/44
retrograde	1725 May 01 13:49	13 00349 22°る07'12		minimum elong	1731 Mar 15 02:14	24° X 01'38	
opposition	1725 Jul 11 08:32	18°る48'45	0°07'17	max. Earth dist.	1731 Mar 14 22:09		10.54817 AU
min. Earth dist.	1725 Jul 11 12:57	18° る 47'57	9.03431 AU	morning rise	1731 Apr 01 06:12	26° H 08'29	10.5 1017 110
direct	1725 Sep 19 20:08	15° る 30'37	7.05.51110	morning not	1731 May 05 12:46	0°Υ	
desc. node	1725 Oct 02 05:00	15° る 38'10		retrograde	1731 Jul 16 04:50	3° Y 57'14	
evening set	1725 Dec 29 04:14	22° る 30'40		opposition	1731 Sep 24 02:59	0° Υ 30'48	-2°36'46
				min. Earth dist.	1731 Sep 24 05:36	0° Ƴ 30'17	8.49099 AU
conjunction	1726 Jan 14 19:30	24° පි 28'08	-0°07'35		1731 Sep 30 17:01	30° ₹ ₩	
minimum elong	1726 Jan 14 19:30	24° る 28'08	0°07'35	direct	1731 Nov 30 19:22	27° ₩ 08'55	
behind sun begin	1726 Jan 14 13:09	24° る 26'17			1732 Jan 27 18:51	0 ° $\mathbf{\Upsilon}$	
behind sun end	1726 Jan 15 01:51	24° පි 30'00		evening set	1732 Mar 10 02:34	4° Ƴ 39'34	
max. Earth dist.	1726 Jan 14 13:20		11.01062 AU			••	
morning rise	1726 Jan 31 12:09	26° පි 26'02		conjunction	1732 Mar 27 05:19	6° Y 47'29	
	1726 Mar 05 18:23	0° ≈		minimum elong	1732 Mar 27 05:18	6° Y 47'29	
retrograde	1726 May 13 15:45	3°≈34'13	0925154	max. Earth dist.	1732 Mar 27 02:47		10.43210 AU
opposition min. Earth dist.	1726 Jul 23 13:48 1726 Jul 23 19:01	0°≈14'44 0°≈13'46	-0°25'54 8.98152 AU	morning rise retrograde	1732 Apr 13 12:45 1732 Jul 28 23:28	8° Υ 56'53 16° Υ 54'50	
iiiii. Eartii tiist.	1726 Jul 26 21:24	0 ≈13 40 30°Rる	6.96132 AU	opposition	1732 Jul 28 23:28 1732 Oct 06 12:01	13° Υ 27'07	-2°46'19
direct	1726 Oct 01 15:42	30 KO 26°る56'30		min. Earth dist.	1732 Oct 06 12:01 1732 Oct 06 13:27	13° Y 26'50	8.37649 AU
311000	1726 Oct 01 13:42 1726 Dec 03 04:32	20 3 0 30 30 0 ∞		direct	1732 Dec 12 18:48	13 γ 20 30 10° γ 04'05	5.5 , 07 / AU
evening set	1727 Jan 09 16:01	3°≈58'17		evening set	1732 Mar 23 12:11	17° Υ 43'10	
5		22-7		5			
conjunction	1727 Jan 26 08:07	5° ≈ 56'42		conjunction	1733 Apr 09 18:59	19° Ƴ 53'47	
minimum elong	1727 Jan 26 08:05	5° ≈ 56'42		minimum elong	1733 Apr 09 19:00	19° Ƴ 53'47	
max. Earth dist.	1727 Jan 26 01:58		10.94781 AU	max. Earth dist.	1733 Apr 09 18:25		10.32009 AU
morning rise	1727 Feb 12 02:22	7°≈55'47		morning rise	1733 Apr 27 06:21	22°\bar{05'53}	
	1727 May 11 14:49	15° ≈			1733 Jul 27 21:16	0° 8	
retrograde	1727 May 26 00:05	15°≈10′09		retrograde	1733 Aug 12 02:00	0° 8 12'10	

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	1733 Aug 27 08:42	30° Ŗ ♈		asc. node	1740 Jan 26 23:17	19° © 38'26	
opposition	1733 Oct 20 02:40	26° Y '43'22	2047121	direct	1740 Mar 18 20:18	17°923'13	
min. Earth dist.	1733 Oct 20 02:26		8.26888 AU	evening set	1740 Jul 02 09:19	25° © 37'11	
direct	1733 Dec 26 00:28	23° Y 19′10					
	1734 Mar 28 08:17	9° 8		conjunction	1740 Jul 20 13:31	27° © 57'23	0°15'21
evening set	1734 Apr 06 08:08	1° 8 06'45		minimum elong	1740 Jul 20 13:30	27° © 57'23	0°15'21
· ·	•			behind sun begin	1740 Jul 20 11:47	27° © 56'50	
conjunction	1734 Apr 23 19:27	3° 8 20'07	-2°12'20	behind sun end	1740 Jul 20 15:14	27° © 57'56	
minimum elong	1734 Apr 23 19:28	3° 8 20'08		max. Earth dist.	1740 Jul 20 20:19		10.08402 AU
C	*			max. Lartii dist.			10.00402 AC
max. Earth dist.	1734 Apr 23 20:11		10.21810 AU		1740 Aug 05 10:16	0°N	
morning rise	1734 May 11 11:04	5° 8 34'55		morning rise	1740 Aug 07 15:53	0° Ω 17'01	
retrograde	1734 Aug 26 11:14	13° 8 48'01		retrograde	1740 Nov 19 04:27	8° Ω 21'34	
opposition	1734 Nov 02 22:24	10° 8 18'28	-2°39'09	opposition	1741 Jan 24 17:20	4° Ω 54'51	0°39'09
min. Earth dist.	1734 Nov 02 20:59	10° 8 18'45	8.17413 AU	min. Earth dist.	1741 Jan 24 11:51	4° Ω 55'58	8.11647 AU
direct	1735 Jan 08 12:10	6° 8 53'04		direct	1741 Apr 02 08:24	1° Ω 25'36	
evening set	1735 Apr 20 13:46	14° 8 48'45		evening set	1741 Jul 17 07:56	9° Ω 37'06	
evening set	_	15° 8		evening set	1741341 17 07.50) 01 3700	
	1735 Apr 22 01:17	13 0			1741 4 04 00 52	110055100	0045145
		4.		conjunction	1741 Aug 04 09:53	11° Ω 55'32	0°47'15
conjunction	1735 May 08 05:47	17° 8 04'46		minimum elong	1741 Aug 04 09:51	11° Ω 55'31	0°47'15
minimum elong	1735 May 08 05:50	17° 8 04'47	2°01'45	max. Earth dist.	1741 Aug 04 16:31	11° Ω 57'39	10.15457 AU
max. Earth dist.	1735 May 08 07:34	17° 8 05'21	10.13214 AU	morning rise	1741 Aug 22 08:46	14° Ω 13′01	
morning rise	1735 May 26 01:44	19° 8 22'05			1741 Aug 28 15:40	15° Ω	
retrograde	1735 Sep 10 00:16	27° 8 39'56		retrograde	1741 Dec 03 00:07	22°Ω09'20	
opposition	1735 Nov 16 22:39	24° 8 10'00	2021/3/	opposition	1742 Feb 07 14:18	18°Ω43'55	1°17'00
**				**			8.19719 AU
min. Earth dist.	1735 Nov 16 20:24		8.09806 AU	min. Earth dist.	1742 Feb 07 09:33		8.19/19 AU
direct	1736 Jan 22 08:39	20° 8 43'28		direct	1742 Apr 16 17:38	15° Ω 14'53	
evening set	1736 May 04 03:49	28° 8 46'19		evening set	1742 Jul 31 23:46	23° Ω 22'06	
	1736 May 13 17:15	$\Pi^{\circ}0$					
				conjunction	1742 Aug 18 21:59	25° Ω 38′05	1°15'56
conjunction	1736 May 22 00:27	1° Ⅱ 04'39	-1°43'52	minimum elong	1742 Aug 18 21:56	25° Ω 38'05	1°15'57
minimum elong	1736 May 22 00:31	1° Ⅱ 04'40		max. Earth dist.	1742 Aug 19 03:21		10.24362 AU
Č	•				-		10.24302 AU
max. Earth dist.	1736 May 22 03:13		10.06766 AU	morning rise	1742 Sep 05 16:20	27° Ω 52'53	
morning rise	1736 Jun 09 00:23	3° Ⅱ 24'03			1742 Sep 23 05:05	0° ™	
retrograde	1736 Sep 23 14:27	11° Ⅱ 44'13		retrograde	1742 Dec 16 12:39	5° Mp 40'31	
opposition	1736 Nov 30 02:08	8° Ⅱ 14'16	-1°55'15	opposition	1743 Feb 21 06:23	2° Mp 16'28	1°49'41
min. Earth dist.	1736 Nov 29 23:21	8° Ⅱ 14'51	8.04568 AU	min. Earth dist.	1743 Feb 21 03:00	2° m/ 17'09	8.29350 AU
direct	1737 Feb 04 12:01	4° Ⅱ 46'45			1743 Mar 24 04:23	30° ₽ Ω	
evening set	1737 May 19 01:04	12° Ⅱ 55'21		direct	1743 Apr 30 22:10	28° Ω 47'58	
evening set	1757 May 17 01.04	12 1133 21		direct	1743 Jun 07 11:32	0° my	
	1727 1 06 01 42	150 T 15127	1010124				
conjunction	1737 Jun 06 01:43	15° Ⅱ 15'27		evening set	1743 Aug 15 07:05	6° Mp 49'33	
minimum elong	1737 Jun 06 01:46	15° Ⅱ 15'28					
max. Earth dist.	1737 Jun 06 05:30	15° Ⅱ 16'41	10.02896 AU	conjunction	1743 Sep 02 00:42	9° ™ 02'46	1°39'54
morning rise	1737 Jun 24 04:39	17° Ⅱ 36′17		minimum elong	1743 Sep 02 00:39	9° ™ 02'45	1°39'55
retrograde	1737 Oct 08 04:36	25° Ⅱ 56′03		max. Earth dist.	1743 Sep 02 04:07	9° mg 03'50	10.34511 AU
opposition	1737 Dec 14 07:12	22° II 26'30	-1°21'37	morning rise	1743 Sep 19 14:01	11° m) 14'37	
min. Earth dist.	1737 Dec 14 03:47		8.02060 AU	retrograde	1743 Dec 29 17:23	18° m 53'35	
direct	1738 Feb 18 20:13	18° I 58'10	0.02000 AC	opposition	1743 Dec 25 17:25 1744 Mar 05 17:06	15° Mp 30'56	2°15'41
						=	
evening set	1738 Jun 03 03:00	27° Ⅱ 10'42		min. Earth dist.	1744 Mar 05 14:52	15° Tp 31'23	8.39960 AU
				direct	1744 May 13 22:01	12°Mp03'12	
conjunction	1738 Jun 21 06:30	29° Ⅲ 31'47	-0°50'16	evening set	1744 Aug 28 04:44	19° m 58'09	
minimum elong	1738 Jun 21 06:32	29° Ⅱ 31'48	0°50'16				
max. Earth dist.	1738 Jun 21 11:30	29° Ⅲ 33'25	10.01867 AU	conjunction	1744 Sep 14 17:27	22°Mp08'27	1°58'08
	1738 Jun 24 20:58	0°©		minimum elong	1744 Sep 14 17:24	22° m/08'26	1°58'08
morning rise	1738 Jul 09 10:59	1°953'11		max. Earth dist.	1744 Sep 14 19:14	-•	10.45389 AU
=							10.43369 AU
retrograde	1738 Oct 22 16:58	10°509'59	00.40:	morning rise	1744 Oct 02 01:39	24° TD 17'21	
opposition	1738 Dec 28 12:32	6° 9 41'08			1744 Nov 26 03:39	0∘ ত	
min. Earth dist.	1738 Dec 28 08:09	6° ≤ 42'02	8.02460 AU	retrograde	1745 Jan 10 13:19	1° ≏ 47'59	
direct	1739 Mar 05 07:24	3° © 12'15			1745 Feb 26 08:05	30°R.Mp	
evening set	1739 Jun 18 06:39	11° © 26'35		opposition	1745 Mar 18 22:32	28° m/26'38	2°34'05
S				min. Earth dist.	1745 Mar 18 20:47	28° m) 26'59	
conjunction	1739 Jul 06 11:23	13°947'43	-0°17'56	direct	1745 May 27 17:02	24° m 59'53	5.51057 AU
·				direct	•		
minimum elong	1739 Jul 06 11:24	13° © 47'44			1745 Aug 17 11:16	0∘ ⊽	
max. Earth dist.	1739 Jul 06 17:33		10.03750 AU	evening set	1745 Sep 10 16:03	2° ≏ 47'24	
morning rise	1739 Jul 24 15:42	16° 5 08'42					
retrograde	1739 Nov 06 01:49	24° 5 20'18		conjunction	1745 Sep 27 23:58	4° £ 54'50	2°10'03
opposition	1740 Jan 11 16:27	20°952'24	-0°01'40	minimum elong	1745 Sep 27 23:56	4° Ω 54'49	2°10'04
min. Earth dist.	1740 Jan 11 11:13		8.05738 AU	max. Earth dist.	1745 Sep 28 00:58		10.56513 AU
mm. Darm dist.	1,10,0011 11 11.13	20 -33 29	5.05/50 AU	man. Durin dist.	1710 00p 20 00.00	. —33 08	10.50515 AU

				-),		, p	
morning rise	1745 Oct 15 03:15	7° ჲ 00'51		morning rise	1751 Dec 24 21:49	17° ∡ °54'39	
retrograde	1746 Jan 23 04:23	14° £ 23'45		retrograde	1752 Apr 03 01:31	24° ₹ ′53'23	
opposition	1746 Mar 31 22:38	11° ჲ 03'32	2°44'30	opposition	1752 Jun 12 07:52	21° × ⁷ 35'40	1°23'20
min. Earth dist.	1746 Mar 31 21:06		8.62141 AU	min. Earth dist.	1752 Jun 12 10:45	21° х 35′08	9.04746 AU
direct	1746 Jun 10 04:10	7° ≏ 37'54		direct	1752 Aug 22 10:13	18° ≯ 16'00	
evening set	1746 Sep 23 16:59	15° ≏ 17'32		evening set	1752 Dec 02 01:00	25° ₹ 18'52	
•	·			-			
conjunction	1746 Oct 10 20:36	17° ≏ 22'19	2°15'32	conjunction	1752 Dec 18 16:00	27° ∡ 15'40	0°56'14
minimum elong	1746 Oct 10 20:35	17° ≏ 22'18	2°15'32	minimum elong	1752 Dec 18 16:02	27° ∡ 15'41	0°56'14
max. Earth dist.	1746 Oct 10 21:28	17° ≏ 22'35	10.67399 AU	max. Earth dist.	1752 Dec 18 11:52	27° ₰ 14'27	11.05244 AU
morning rise	1746 Oct 27 19:32	19° ≏ 25'44		morning rise	1753 Jan 04 06:18	29° ₰ 12'17	
retrograde	1747 Feb 04 14:10	26° ≏ 41'38			1753 Jan 11 05:33	0°ප	
opposition	1747 Apr 13 17:38	23° ჲ 22'23	2°47'02	retrograde	1753 Apr 14 19:48	6° ප 11'56	
min. Earth dist.	1747 Apr 13 17:04	23° ഫ 22'30	8.72739 AU	opposition	1753 Jun 24 10:14	2° る 53'53	
direct	1747 Jun 23 06:41	19° ≏ 57'53		min. Earth dist.	1753 Jun 24 13:57	2° る 53'11	9.05269 AU
evening set	1747 Oct 06 08:01	27° ≏ 29'35			1753 Aug 11 08:09	30°₹⊀	
		_		direct	1753 Sep 03 07:49	29° ∡ ³34'48	
conjunction	1747 Oct 23 07:50	29° £ 32'03			1753 Sep 26 02:26	0° ろ	
minimum elong	1747 Oct 23 07:51	29° £ 32'03		evening set	1753 Dec 13 08:27	6° る 35'33	
max. Earth dist.	1747 Oct 23 07:47		10.77568 AU				
	1747 Oct 27 04:16	0°M		conjunction	1753 Dec 29 23:20		0°30'48
morning rise	1747 Nov 09 03:21	1°M33'17		minimum elong	1753 Dec 29 23:21	8°る32'25	0°30'48
retrograde	1748 Feb 16 16:26	8°M43'08	2042107	max. Earth dist.	1753 Dec 29 18:48		11.04704 AU
opposition	1748 Apr 25 07:56	5°M24'39		morning rise	1754 Jan 15 14:24	10°る29'19	
min. Earth dist.	1748 Apr 25 08:47	5°M24'30 2°M01'15	8.82385 AU	retrograde	1754 Apr 26 18:06	17°る31'27 14°る12'50	0°21'22
direct	1748 Jul 05 04:37	9°M25'25		opposition min. Earth dist.	1754 Jul 06 13:01 1754 Jul 06 16:35	14°る12'30	9.03615 AU
evening set	1748 Oct 17 14:11	9-11623/23		direct	1754 Sep 15 05:14	14° る 12'11	9.03613 AU
conjunction	1748 Nov 03 10:49	11°M25'54	2°08'06	evening set	1754 Dec 24 16:34	10 83410 17° 8 54'17	
minimum elong	1748 Nov 03 10:49	11°M25'55	2°08'05	evening set	1/34 DCC 24 10.34	17 03417	
max. Earth dist.	1748 Nov 03 10:31		10.86588 AU	conjunction	1755 Jan 10 07:50	19° る 51'33	0°04'08
morning rise	1748 Nov 20 03:51	13°M25'20	10.00300710	minimum elong	1755 Jan 10 07:50	19° る 51'33	0°04'08
morning rise	1748 Dec 03 22:17	15°M		behind sun begin	1755 Jan 10 00:57	19° る 49'33	0 0100
retrograde	1749 Feb 27 15:24	20°M30'21		behind sun end	1755 Jan 10 14:42	19° る 53'34	
opposition	1749 May 07 18:06	17°M12'24	2°30'27	max. Earth dist.	1755 Jan 10 03:55		11.01989 AU
min. Earth dist.	1749 May 07 19:57	17°M12'03		morning rise	1755 Jan 26 23:52	21° る 49'07	
	1749 Jun 08 20:38	15°RM		desc. node	1755 Mar 07 20:30	25° る 59'01	
direct	1749 Jul 17 20:25	13°M50'04		retrograde	1755 May 08 19:34	28° る 55'13	
	1749 Aug 25 03:44	15°M		opposition	1755 Jul 18 17:05	25° る 35'50	-0°11'42
evening set	1749 Oct 29 12:35	21°ML07'19		min. Earth dist.	1755 Jul 18 20:03	25° る 35'17	8.99831 AU
				direct	1755 Sep 27 00:36	22° る 17'23	
conjunction	1749 Nov 15 06:51	23°M06'16	1°56'13	evening set	1756 Jan 05 02:59	29° る 18'23	
minimum elong	1749 Nov 15 06:54	23°M06'17	1°56'12		1756 Jan 11 01:05	0° ≈	
max. Earth dist.	1749 Nov 15 04:10	23°M05'28	10.94113 AU				
morning rise	1749 Dec 01 22:13	25°M04'22		conjunction	1756 Jan 21 18:49	1°≈16′25	-0°23'02
	1750 Jan 19 14:47	0°⊀		minimum elong	1756 Jan 21 18:48	1°≈16′25	
retrograde	1750 Mar 11 11:13	2° ≯ 05'51		max. Earth dist.	1756 Jan 21 15:02		10.97189 AU
	1750 May 03 14:25	30°RM		morning rise	1756 Feb 07 12:11	3°≈14'57	
opposition	1750 May 20 00:54	28°M48'10		retrograde	1756 May 20 02:32	10° ≈ 26′29	
min. Earth dist.	1750 May 20 02:45	28°M47'49	8.97330 AU	opposition	1756 Jul 29 23:53	7°≈06'10	
direct	1750 Jul 30 05:47	25°M26'51		min. Earth dist.	1756 Jul 30 02:53	7°≈05'37	8.94053 AU
. ,	1750 Oct 17 07:22	0° 🔏 20. ₹2010.4		direct	1756 Oct 07 21:08	3°≈47'42	
evening set	1750 Nov 10 04:33	2° ∡ 38'04		evening set	1757 Jan 15 17:10	10° ≈ 51′05	
conjunction	1750 Nov 26 21:18	4° ∡ ³35'55	1020145	conjunction	1757 Feb 01 09:47	12° ≈ 50'11	0040120
minimum elong	1750 Nov 26 21:18 1750 Nov 26 21:20	4 x ·33 33 4° x ⁷ 35'55		minimum elong	1757 Feb 01 09:47 1757 Feb 01 09:46	12 ≈50 11 12°≈50'11	0°49'27
max. Earth dist.	1750 Nov 26 21:20 1750 Nov 26 18:48		10.99858 AU	max. Earth dist.	1757 Feb 01 05:40 1757 Feb 01 05:27		10.90490 AU
morning rise	1750 Dec 13 11:37	6° ₹ 33'06	10.99636 AU	morning rise	1757 Feb 18 04:58	12 ≈ 48 33	10.90490 AU
retrograde	1750 Dec 13 11.37 1751 Mar 23 06:49	13° ∡ '33'06		morning 1150	1757 Feb 18 04.38 1757 Feb 19 15:00	14 ≈30 03 15°≈	
opposition	1751 Jun 01 05:10	10° ₹ 14'52	1°50'08	retrograde	1757 Jun 01 14:00	22°≈08'18	
min. Earth dist.	1751 Jun 01 05:10	10 × 1432 10° × 14'30	9.02072 AU	opposition	1757 Aug 11 10:10	18°≈46'55	-1°16'20
direct	1751 Aug 11 10:56	6° ₹ 54'27).020/2110	min. Earth dist.	1757 Aug 11 10:10	18° ≈ 46'18	8.86508 AU
evening set	1751 Nov 21 16:11	14° × 00'50		direct	1757 Aug 11 15:27 1757 Oct 19 19:03	15°≈28'12	5.55500 110
· · · · · · · · · · · · · · · · · · ·		. 3000		evening set	1758 Jan 27 12:46	22°≈35'27	
conjunction	1751 Dec 08 07:53	15° ₹ 57'58	1°19'30	<i>5</i>			
minimum elong	1751 Dec 08 07:55	15° ₹ 57'59		conjunction	1758 Feb 13 06:42	24° ≈ 35'56	-1°14'14
max. Earth dist.	1751 Dec 08 05:06		11.03610 AU	minimum elong	1758 Feb 13 06:40	24° ≈ 35'55	
				٤			

min. Earth dist.

1770 Jan 18 14:32

28°9549'19

8.08641 AU

morning rise

1764 May 18 23:58

13°832'00

opposition

direct

min. Earth dist.

1776 Apr 07 05:30

1776 Apr 07 04:31

1776 Jun 16 15:23

17°**£**56'59

17°**≏**57'11

14°**£**31'43

2°46'45

8.67739 AU

retrograde

opposition

1782 Apr 09 19:18

1782 May 19 19:43

1782 Jun 19 05:26

1°**る**13'19

27°**∡**756′00 1°07′27

30°R*x*7

1788 Feb 20 06:17

minimum elong

1°¥21'26 1°26'32

conjunction	1794 May 09 14:13	19° 8 04'57	-2°00'02	minimum elong	1800 Aug 06 15:06	13° Ω 48'39	0°50'11
minimum elong	1794 May 09 14:16	19° 8 04'57	2°00'03	max. Earth dist.	1800 Aug 06 21:14		10.16298 AU
max. Earth dist.	1794 May 09 14:10	_	10.13205 AU	max. Lartii dist.	1800 Aug 15 21:48	15° Ω	10.10270710
morning rise	1794 May 27 10:34	21° 8 22'19	10.13203 110	morning rise	1800 Aug 24 13:45	16° Ω 05'55	
retrograde	1794 Sep 11 07:01	29° 8 39'51		retrograde	1800 Dec 05 04:29	24°Ω01'30	
opposition	1794 Nov 18 05:51	26°809'54	-2°19'00	opposition	1801 Feb 09 18:19	20°Ω36'13	1°20'22
min. Earth dist.	1794 Nov 18 04:02	. •	8.09906 AU	min. Earth dist.	1801 Feb 09 14:15	20°Ω37'03	8.20604 AU
direct	1795 Jan 23 16:44	22° 8 43'17	0.07700710	direct	1801 Apr 18 21:53	17° Ω 07'15	0.20004710
direct	1795 Apr 30 09:49	0°Ⅱ		evening set	1801 Aug 03 04:45	25°Ω13'56	
evening set	1795 May 06 12:00	0° П 46'03		evening sec	10017148 05 01.15	23 0013 30	
evening sec	1755 May 00 12.00	0 12 10 03		conjunction	1801 Aug 21 02:32	27° Ω 29'42	1°18'25
conjunction	1795 May 24 08:54	3° Ⅱ 04'26	-1°41'30	minimum elong	1801 Aug 21 02:29	27° Ω 29'41	1°18'26
minimum elong	1795 May 24 08:58	3° Ⅱ 04'27		max. Earth dist.	1801 Aug 21 07:01		10.25285 AU
max. Earth dist.	1795 May 24 00:36		10.06979 AU	morning rise	1801 Sep 07 20:37	29° Ω 44'15	10.23203710
morning rise	1795 Jun 11 09:05	5° Ⅱ 23'49	10.00777710	morning rise	1801 Sep 09 23:22	0° m	
retrograde	1795 Sep 25 20:50	13° Ⅱ 43'27		retrograde	1801 Dec 18 15:21	7° m)31'06	
opposition	1795 Dec 02 08:54	10° Ⅱ 13'31	-1°51'56	opposition	1802 Feb 23 09:49	4°Mp07'11	1°52'25
min. Earth dist.	1795 Dec 02 06:13	10° I 13'31		min. Earth dist.	1802 Feb 23 06:38	4° MD 07'49	8.30318 AU
direct	1796 Feb 06 19:32	6° I I45'55	6.04660 AU	direct	1802 Neb 23 00:38	0° Mp 38'44	6.30316 AU
evening set	1796 May 20 08:55	14° ∏ 54'16		evening set	1802 May 03 03:10	8° Mp 39'41	
evening set	1/90 May 20 08.33	14 1134 10		evening set	1802 Aug 17 11.13	8 11/3941	
conjunction	1796 Jun 07 09:49	17° Ⅱ 14'21	-1°16'40	conjunction	1802 Sep 04 04:26	10° m 52'38	1°41'50
minimum elong	1796 Jun 07 09:52	17° Ⅱ 14'22		minimum elong	1802 Sep 04 04:23	10° m 52'37	1°41'51
max. Earth dist.	1796 Jun 07 07:32		10.03307 AU	max. Earth dist.	1802 Sep 04 07:18		10.35497 AU
morning rise	1796 Jun 25 12:51	19° Ⅱ 35'07	10.03307 AC	morning rise	1802 Sep 04 07:18	13° m 04'15	10.55477 AC
retrograde	1796 Oct 09 10:53	27° I 54'12		retrograde	1802 Dec 31 18:05	20° m/ 42'28	
opposition	1796 Oct 09 10:33 1796 Dec 15 13:27	24° ∏ 24'39	1017146	opposition	1802 Dec 31 18:03 1803 Mar 08 20:01	17° Mp 19'54	2°17'40
min. Earth dist.	1796 Dec 15 13:27 1796 Dec 15 09:38		8.02555 AU	min. Earth dist.	1803 Mar 08 17:28	17° Mg 20'25	8.40945 AU
direct	1790 Dec 13 09:38 1797 Feb 20 03:14	24 H 2327 20° H 56'17	6.02555 AU	direct	1803 May 17 03:30	17 m/2023 13° m/52'16	6.40943 AU
		20 H3617 29°H08'26			•		
evening set	1797 Jun 04 10:23 1797 Jun 11 02:57	0°95		evening set	1803 Aug 31 07:48	21°Mp46'30	
	1/9/ Juli 11 02.3/	0 39		conjunction	1803 Sep 17 20:14	23° m 56'34	1°59'26
conjunction	1797 Jun 22 14:05	1° 5 29'27	0°47'04	minimum elong	1803 Sep 17 20:14 1803 Sep 17 20:11	23° m/ 56'33	1°59'26
minimum elong	1797 Jun 22 14:03	1° 5 2927		max. Earth dist.	1803 Sep 17 20:11 1803 Sep 17 22:09		10.46336 AU
max. Earth dist.	1797 Jun 22 14:07		10.02442 AU	morning rise	1803 Sep 17 22:09 1803 Oct 05 04:04	26° m 05'12	10.40330 AU
morning rise	1797 Jul 10 18:30	3°950'43	10.02442 AU	morning rise	1803 Oct 03 04:04 1803 Nov 08 22:01	0° ⊡	
retrograde	1797 Oct 23 22:57	12° 9 06'44		retrograde	1804 Jan 13 15:51	0 == 3° £ 35'15	
•			0920146	•			2°35'16
opposition	1797 Dec 29 18:08	8°937'55	8.03095 AU	opposition	1804 Mar 21 00:55	0° £ 13'58	8.51940 AU
min. Earth dist.	1797 Dec 29 13:16		8.03093 AU	min. Earth dist.	1804 Mar 20 22:54		6.51940 AU
direct	1798 Mar 06 14:10	5°909'01		J:4	1804 Mar 24 00:09	30°R Mp	
evening set	1798 Jun 19 13:37	13° © 22'55		direct	1804 May 29 19:43	26° Mp 47'19 0° Ω	
agnismation	1798 Jul 07 18:22	1500342155	0014127	avanina aat	1804 Aug 01 21:01	0° 22 4° 2 34'11	
conjunction	1798 Jul 07 18:23	15°943'55		evening set	1804 Sep 12 18:22	4 = 34 11	
minimum elong behind sun begin	1798 Jul 07 15:33	15°543'55 15°543'00	0 1437	conjunction	1804 Sep 30 02:06	6° £ 41'27	2010/42
behind sun end	1798 Jul 07 13:33	15°944'50		•	1804 Sep 30 02:04		2°10'42 2°10'42
max. Earth dist.	1798 Jul 07 21:14 1798 Jul 08 01:00		10.04441 AU	minimum elong max. Earth dist.	1804 Sep 30 02:04		10.57314 AU
morning rise	1798 Jul 25 22:27	13 \$340 03 18° \$304'43	10.04441 AU	morning rise	1804 Sep 30 03:20 1804 Oct 17 05:00	8° £ 47'16	10.57514 AU
retrograde	1798 Nov 07 06:41	26°915'30		retrograde	1804 Oct 17 05:00 1805 Jan 25 06:45	16° £ 09'42	
asc. node	1798 Nov 07 00:41 1798 Dec 21 14:46	20 \$313 30 24° \$32'41		opposition		10 = 0942 12° £ 49'34	2°44'52
opposition	1798 Dec 21 14.46 1799 Jan 12 21:26	24 \$32 41 22°\$47'41	0°02'26	min. Earth dist.	1805 Apr 03 00:37 1805 Apr 02 23:38	12 ≗ 49 34 12° ≗ 49'45	8.62842 AU
* *	1799 Jan 12 16:09		8.06471 AU	direct	1805 Apr 02 25:38 1805 Jun 12 05:18	9° £ 24'01	6.02642 AU
min. Earth dist.	1799 Jan 12 16:09 1799 Mar 21 02:08	22°5548'47 19°5518'31	8.004/1 AU			9 ≗ 2401 17° ≗ 03'10	
direct evening set	1799 Mai 21 02:08 1799 Jul 04 15:40	27°932'01		evening set	1805 Sep 25 18:47	1/ ==03 10	
evening set	1/99 Jul 04 13.40	27 93201		conjunction	1805 Oct 12 22:08	19° ≏ 07'49	2°15'32
conjunction	1799 Jul 22 19:40	29°952'02	0°18'33	minimum elong	1805 Oct 12 22:08	19 = 07 49 19° ⊆ 07'49	2°15'31
minimum elong	1799 Jul 22 19:40	29° 9 52'02	0°18'34	max. Earth dist.	1805 Oct 12 22:34		10.67984 AU
max. Earth dist.	1799 Jul 22 19:40 1799 Jul 23 02:29		10.09173 AU	morning rise	1805 Oct 12 22.34 1805 Oct 29 20:50	19 2 0/3/ 21° 2 11'08	10.07304 AU
man. Laith uist.	1799 Jul 23 02:29 1799 Jul 23 20:18	29°≌54°14 0° Ω	10.071/3 AU	•	1805 Oct 29 20:50 1806 Feb 06 14:38	21° 2 211'08 28° 2 26'44	
morning rise		0°8ι 2°Ω11'27		retrograde			2016120
morning rise	1799 Aug 09 21:44			opposition	1806 Apr 15 19:33	25° Ω 07'34	
retrograde	1799 Nov 21 09:04	10° Ω 15'14	0042100	min. Earth dist.	1806 Apr 15 19:59	25° £ 07'29	8.73207 AU
opposition	1800 Jan 26 21:52	6° Ω 48'38	0°43'00	direct	1806 Jun 25 09:11	21° Ω 43'08	
min. Earth dist.	1800 Jan 26 16:52	6° Ω 49'40	8.12455 AU	evening set	1806 Oct 08 09:22	29° Ω 14'32	
direct	1800 Apr 04 12:48	3° Ω 19'25			1806 Oct 14 17:57	0° M	
evening set	1800 Jul 19 13:32	11° Ω 30′26		aaniumatian	1806 Oct 25 08:55	1° M .16'54	2014/07
conjunction	1800 Aug 06 15:08	13° Ω 48'39	0°50'10	conjunction minimum elong	1806 Oct 25 08:55	1°M16'54	
conjunction	1000 Aug 00 13.08	10 06+039	0 50 10	mminum ciong	1000 001 23 00.33	1 11610 34	2 1700

may Earth dist	1906 Oat 25 07:41	10 m 16122	10.77908 AU	ratra ara da	1012 Apr. 20 22:10	19° る 20'58	
max. Earth dist. morning rise	1806 Oct 25 07:41	3°ML18'04	10.77908 AU	retrograde opposition	1813 Apr 28 22:18 1813 Jul 08 17:05	19 3 2038	0°17'33
retrograde	1806 Nov 11 04:22 1807 Feb 18 17:57	10°M27'51		min. Earth dist.	1813 Jul 08 17:03 1813 Jul 08 20:05	16 30211 16° る 01'37	9.02392 AU
opposition	1807 Apr 28 09:50	7°ML09'25	2°40'59	direct	1813 Sep 17 08:00	10 30137 12° 3 43'26	9.02392 AU
min. Earth dist.	1807 Apr 28 09:30	7°11L0923	8.82599 AU	evening set	=	12 343 20 19° 3 44'09	
direct	1807 Apr 28 11.16 1807 Jul 08 06:52	3°ML46'05	8.82399 AU	evening set	1813 Dec 26 19:36	19 044 09	
	1807 Oct 20 15:16	11°ML10'04		agniumation	1014 Ion 12 10:50	21° る 41'37	0°00'56
evening set	180/ Oct 20 15:16	11-11610'04		conjunction minimum elong	1814 Jan 12 10:59 1814 Jan 12 10:58	21°る41'37 21°る41'37	0°00'56
agniumation	1907 Nov. 06, 11,40	129 M 10122	2906154			21° る 39'35	0 00 36
conjunction	1807 Nov 06 11:48	13°M 10'33	2°06'54	behind sun begin	1814 Jan 12 04:00		
minimum elong	1807 Nov 06 11:50	13°M10'33	2°06'53	behind sun end	1814 Jan 12 17:57	21° る 43'39	11.00600 411
max. Earth dist.	1807 Nov 06 09:22	13°M09'49	10.86671 AU	max. Earth dist.	1814 Jan 12 07:19		11.00689 AU
	1807 Nov 21 18:55	15°M		desc. node	1814 Jan 24 21:57	23°る09'54	
morning rise	1807 Nov 23 04:51	15°M09'59		morning rise	1814 Jan 29 03:06	23° る 39'23	
retrograde	1808 Mar 01 16:22	22°M15'05			1814 Apr 10 01:02	0° ≈	
opposition	1808 May 09 19:57	18°M57'08	2°28'39	retrograde	1814 May 11 01:36	0°≈46'25	
min. Earth dist.	1808 May 09 21:36	18°M56'49	8.90630 AU		1814 Jun 11 13:15	30°Rる	
direct	1808 Jul 19 22:16	15°M34'52		opposition	1814 Jul 20 21:54	27° る 26'52	
evening set	1808 Oct 31 13:37	22°M52'05		min. Earth dist.	1814 Jul 21 00:53	27° る 26'19	8.98469 AU
				direct	1814 Sep 29 04:14	24° る 08'18	
conjunction	1808 Nov 17 07:58	24°M51'04	1°54'29		1814 Dec 28 02:00	0° ≈	
minimum elong	1808 Nov 17 08:00	24°M51'05	1°54'28	evening set	1815 Jan 07 06:43	1°≈10'01	
max. Earth dist.	1808 Nov 17 05:33	24°M50'21	10.93924 AU				
morning rise	1808 Dec 03 23:16	26°M49'12		conjunction	1815 Jan 23 22:35	3° ≈ 08'15	-0°26'10
	1809 Jan 02 01:59	0° ∡ 7		minimum elong	1815 Jan 23 22:34	3° ≈ 08'14	0°26'10
retrograde	1809 Mar 13 13:46	3° ∡ 750'58		max. Earth dist.	1815 Jan 23 18:10	3° ≈ 06'56	10.95774 AU
opposition	1809 May 22 03:03	0° ∡ ³33′16	2°10'25	morning rise	1815 Feb 09 16:14	5° ≈ 07'02	
min. Earth dist.	1809 May 22 04:50	0° ∡ ³32'56	8.96996 AU	retrograde	1815 May 23 08:07	12° ≈ 19'33	
	1809 May 29 14:26	30°RM		opposition	1815 Aug 02 05:22	8° ≈ 59'04	-0°48'28
direct	1809 Aug 01 08:20	27°M11'59		min. Earth dist.	1815 Aug 02 08:54	8° ≈ 58'24	8.92598 AU
	1809 Sep 30 22:57	0° ∡ ¹		direct	1815 Oct 11 00:31	5° ≈ 40'28	
evening set	1809 Nov 12 05:48	4° ∡ ¹23'19		evening set	1816 Jan 18 21:42	12° ≈ 44'40	
conjunction	1809 Nov 28 22:35	6° ₹ 21'14	1°37'3/	conjunction	1816 Feb 04 14:26	14° ≈ 43'59	-0°52'27
minimum elong	1809 Nov 28 22:37		1°37'34	minimum elong	1816 Feb 04 14:24	14°≈43'58	
max. Earth dist.	1809 Nov 28 20:05		10.99395 AU	max. Earth dist.	1816 Feb 04 10:02		10.89001 AU
morning rise	1809 Nov 28 20:03	8° 🖈 18'30	10.99393 AU	max. Earth dist.	1816 Feb 06 19:52	14 ≈42 39 15°≈	10.89001 AU
retrograde	1810 Mar 25 09:41	15° 🖈 18'17		morning rise	1816 Feb 21 09:50	15 ≈ 16° ≈ 44'05	
Č .	1810 Jun 03 07:50	13 x 1817 12° x 00'38	1°47'13	retrograde	1816 Jun 03 19:22	10 ≈44 03 24°≈03'26	
opposition min. Earth dist.	1810 Jun 03 10:28	12 × 00 38 12° × 00'09	9.01476 AU	opposition	1816 Aug 13 16:17	24 ≈03 20 20°≈41'50	1910/52
direct	1810 Aug 13 11:38	8° ∡ 740'13	9.01470 AU	min. Earth dist.	1816 Aug 13 19:32	20 ≈41 30 20°≈41'13	8.85001 AU
evening set	1810 Nov 23 17:44	15° × 46'50		direct	1816 Oct 22 01:01	20 ≈41 13 17°≈22'59	8.83001 AU
evening set	1810 NOV 23 17.44	13 × 40 30					
	1010 D 10 00 22	170 7 4404	1017155	evening set	1817 Jan 29 18:07	24° ≈ 31′06	
conjunction	1810 Dec 10 09:23	17° × 44'04	1°16'55		1017 E-L 15 12.10	26921150	101(15)
minimum elong	1810 Dec 10 09:25	17° 🗷 44'05	1°16'55	conjunction	1817 Feb 15 12:18	26°≈31'50	
max. Earth dist.	1810 Dec 10 05:44		11.02899 AU	minimum elong	1817 Feb 15 12:15	26°≈31'50	
morning rise	1810 Dec 26 23:32	19° ₹ 40'54		max. Earth dist.	1817 Feb 15 09:02	26°≈30'51 28°≈33'33	10.80628 AU
retrograde	1811 Apr 06 03:23	26° ₹ 40'11	1920100	morning rise	1817 Mar 04 09:39	28° ≈ 33'33	
opposition	1811 Jun 15 10:58	23° 🗷 22'23	1°20'00		1817 Mar 16 19:58		
min. Earth dist.	1811 Jun 15 14:37	23° 🗷 21'42	9.03919 AU	retrograde	1817 Jun 16 15:28	6°¥00'48	1040120
direct	1811 Aug 25 12:42	20° ₹ 02'39		opposition	1817 Aug 26 07:18	2° 	
evening set	1811 Dec 05 02:55	27° ₹ 05'55		min. Earth dist.	1817 Aug 26 09:31		8.75977 AU
	1011 D 21 17 50	200 70251	0053131	T'	1817 Oct 05 09:45	30°R≈	
conjunction	1811 Dec 21 17:59	29°×702'51	0°53'21	direct	1817 Nov 03 04:33	29°≈18'40	
minimum elong	1811 Dec 21 18:01	29° ₹ 02'52	0°53'21		1817 Dec 01 10:30	0° ∀	
max. Earth dist.	1811 Dec 21 13:25		11.04311 AU	evening set	1818 Feb 10 21:21	6°) 32′01	
	1811 Dec 29 19:53	0°る			1010 5 1 05 15 05	001/04/00	1020120
morning rise	1812 Jan 07 08:29	0° る 59'38		conjunction	1818 Feb 27 17:25	8° ★ 34'28	
retrograde	1812 Apr 16 23:44	7° る 59'58	0040146	minimum elong	1818 Feb 27 17:22	8°) (34'27	
opposition	1812 Jun 26 13:44	4°る41'47	0°49'46	max. Earth dist.	1818 Feb 27 15:18		10.70986 AU
min. Earth dist.	1812 Jun 26 17:20	4°₹41'07	9.04230 AU	morning rise	1818 Mar 16 17:06	10°) € 38'06	
direct	1812 Sep 05 11:43	1°る22'38		retrograde	1818 Jun 29 17:54	18° ¥ 13'58	2012:
evening set	1812 Dec 15 10:50	8° る 23'53		opposition	1818 Sep 08 03:08	14°) (49'52	
	1010 1 01 01 0	100-71	0000:::	min. Earth dist.	1818 Sep 08 04:18	14°) (49'39	8.65878 AU
conjunction	1813 Jan 01 01:55	10°る20'55		direct	1818 Nov 15 11:22	11° ¥ 29'55	
minimum elong	1813 Jan 01 01:55	10°る20'55		evening set	1819 Feb 23 08:42	18°) 49′39	
max. Earth dist.	1812 Dec 31 21:57		11.03569 AU		101037 17	0001/5:::	1055:50
morning rise	1813 Jan 17 17:01	12° る 18'01		conjunction	1819 Mar 12 07:00	20° 升 54′07	-1°55'59

1825 Jun 02 05:17

minimum elong

11°II18'38 1°28'02

1831 Jan 27 10:34

30°R€

opposition min. Earth dist. direct evening set	1831 Feb 17 17:07 1831 Feb 17 13:08 1831 Apr 27 05:30 1831 Jul 17 18:21 1831 Aug 11 11:38	28° N 21'01 28° N 21'50 24° N 51'48 0° M 2° M 55'20	1°38'50 8.25006 AU	opposition min. Earth dist. direct evening set	1837 May 04 13:52 1837 May 04 14:30 1837 Jul 14 12:52 1837 Oct 01 06:43 1837 Oct 26 13:13	13°M50'46 13°M50'38 10°M28'11 15°M 17°M48'08	2°34'57 8.87733 AU
conjunction minimum elong max. Earth dist. morning rise retrograde opposition	1831 Aug 29 07:14 1831 Aug 29 07:11 1831 Aug 29 11:46 1831 Sep 15 22:32 1831 Dec 26 06:55 1832 Mar 02 05:20	5° Mg 09'39 5° Mg 09'38 5° Mg 11'05 7° Mg 22'40 15° Mg 04'47 11° Mg 41'02	1°32'00 1°32'00 10.29885 AU 2°07'15	conjunction minimum elong max. Earth dist. morning rise retrograde opposition	1837 Nov 12 08:29 1837 Nov 12 08:31 1837 Nov 12 07:05 1837 Nov 29 00:27 1838 Mar 08 13:29 1838 May 16 22:10	19°M47'41 19°M47'42 19°M47'16 21°M46'17 28°M49'08 25°M31'39	2°00'40 2°00'40 10.91584 AU 2°19'16
min. Earth dist. direct evening set	1832 Mar 02 02:20 1832 May 10 06:30 1832 Aug 24 12:36	11° my 41'38 8° my 12'27 16° my 09'46	8.35128 AU	min. Earth dist. direct evening set	1838 May 17 00:02 1838 Jul 27 01:21 1838 Nov 07 07:59 1838 Nov 12 11:24	25°M31'19 22°M10'16 29°M23'58 0°×7	8.95256 AU
conjunction minimum elong max. Earth dist. morning rise retrograde opposition	1832 Sep 11 03:21 1832 Sep 11 03:18 1832 Sep 11 06:33 1832 Sep 28 13:30 1833 Jan 07 07:00 1833 Mar 15 12:22	20° m 31'13 28° m 04'50 24° m 42'27	1°52'17 10.40475 AU 2°28'20	conjunction minimum elong max. Earth dist. morning rise retrograde	1838 Nov 24 01:17 1838 Nov 24 01:20 1838 Nov 23 22:34 1838 Dec 10 16:07 1839 Mar 20 09:23	3° х 19'46 10° х 20'00	1°45'42 1°45'42 10.98242 AU
min. Earth dist. direct evening set	1833 Mar 15 10:22 1833 May 24 01:26 1833 Sep 07 03:24 1833 Sep 14 15:33	24° m 42'51 21° m 14'48 29° m 04'56 0° <u>a</u>	8.46114 AU	opposition min. Earth dist. direct evening set	1839 May 29 03:42 1839 May 29 05:49 1839 Aug 08 07:55 1839 Nov 18 21:43	7° × 02'49 7° × 02'26 3° × 42'30 10° × 50'57	1°58'13 9.00939 AU
conjunction minimum elong max. Earth dist. morning rise retrograde	1833 Sep 24 13:10 1833 Sep 24 13:08 1833 Sep 24 14:55 1833 Oct 11 18:22 1834 Jan 19 22:32	1° \omega 13'28 1° \omega 13'27 1° \omega 14'00 3° \omega 20'34 10° \omega 46'10	2°06'24 2°06'25 10.51645 AU	conjunction minimum elong max. Earth dist. morning rise retrograde	1839 Dec 05 13:49 1839 Dec 05 13:51 1839 Dec 05 10:59 1839 Dec 22 03:59 1840 Mar 31 04:22	12° \$\times^448'21 12° \$\times^448'21 12° \$\times^447'30 14° \$\times^445'14 21° \$\times^444'17	1°26'40 1°26'40 11.02942 AU
opposition min. Earth dist. direct evening set	1834 Mar 28 14:01 1834 Mar 28 12:36 1834 Jun 06 15:11 1834 Sep 20 07:51	7°£25'05 7°£25'21 3°£25'21 3°£41'01	2°41'31 8.57392 AU	opposition min. Earth dist. direct evening set	1840 Mar 31 04.22 1840 Jun 09 07:22 1840 Jun 09 09:36 1840 Aug 19 10:47 1840 Nov 29 08:02	18° \$\frac{1}{2}7'08 18° \$\frac{1}{2}26'43 15° \$\frac{1}{2}07'42 22° \$\frac{1}{2}12'05	1°32'43 9.04550 AU
conjunction minimum elong max. Earth dist. morning rise retrograde opposition	1834 Oct 07 13:03 1834 Oct 07 13:02 1834 Oct 07 13:47 1834 Oct 24 13:47 1835 Feb 01 08:40 1835 Apr 10 10:23	13° ഫ 46'48 13° ഫ 46'47 13° ഫ 47'01 15° ഫ 51'13 23° ഫ 09'33 19° ഫ 49'38	2°14'07 2°14'07 10.62840 AU 2°46'45	conjunction minimum elong max. Earth dist. morning rise retrograde	1840 Dec 15 23:24 1840 Dec 15 23:26 1840 Dec 15 20:23 1841 Jan 01 13:29 1841 Feb 07 17:33 1841 Apr 12 01:12	24° 🖈 09'01 24° 🖈 09'02 24° 🖈 08'08 26° 🖈 05'38 0° 云 3° 云 05'01	1°04'20 1°04'20 11.05484 AU
min. Earth dist. direct evening set conjunction	1835 Apr 10 09:03 1835 Jun 19 22:06 1835 Oct 03 02:17 1835 Oct 20 03:37	19° Ω 49'53 16° Ω 24'24 23° Ω 59'02 26° Ω 02'22	8.68414 AU 2°15'28	opposition min. Earth dist. direct	1841 Jun 18 15:07 1841 Jun 21 10:22 1841 Jun 21 13:23 1841 Aug 31 09:43 1841 Nov 07 18:39	30°R.✓ 29°.✓47'38 29°.✓47'04 26°.✓28'51 0°♂	1°03'46 9.05929 AU
minimum elong max. Earth dist. morning rise	1835 Oct 20 03:37 1835 Oct 20 04:13 1835 Nov 06 00:32 1835 Nov 22 17:37	26° Ω 02'22 26° Ω 02'33 28° Ω 04'25 0° M .		evening set conjunction minimum elong	1841 Dec 10 16:28 1841 Dec 27 07:26 1841 Dec 27 07:28	3° ප 30'32 5° ප 27'22 5° ප 27'23	0°39'34 0°39'33
retrograde opposition min. Earth dist.	1836 Feb 13 15:38 1836 Apr 22 02:08 1836 Apr 22 01:30 1836 May 19 13:24	5°M.16'26 1°M.57'32 1°M.57'39 30°R.Ω	2°44'22 8.78670 AU	max. Earth dist. morning rise retrograde opposition	1841 Dec 27 02:54 1842 Jan 12 22:08 1842 Apr 23 21:24 1842 Jul 03 13:28	7°824'10 14°825'25 11°807'31	11.05724 AU 0°32'22
evening set	1836 Jul 01 20:46 1836 Aug 13 09:18 1836 Oct 14 11:43	28° ♀ 33'40 0° M 6° M 00'40	001040	min. Earth dist. direct evening set	1842 Jul 03 17:50 1842 Sep 12 05:58 1842 Dec 22 00:56	11°る06'43 7°る49'09 14°る49'44	9.04964 AU
conjunction minimum elong max. Earth dist. morning rise	1836 Oct 31 09:42 1836 Oct 31 09:43 1836 Oct 31 09:44 1836 Nov 17 03:38	10°ML02'01		conjunction minimum elong behind sun begin behind sun end	1843 Jan 07 15:56 1843 Jan 07 15:57 1843 Jan 07 11:44 1843 Jan 07 20:09	16°546'50 16°546'50 16°545'37 16°548'04	0°13'13 0°13'13
retrograde	1837 Jan 04 14:29 1837 Feb 24 15:58 1837 Apr 18 22:20	15°M 17°M08'49 15°RM		max. Earth dist. morning rise retrograde	1843 Jan 07 10:15 1843 Jan 24 07:38 1843 May 05 21:46	16°545'10 18°544'09 25°548'55	11.03600 AU

	1055 1 10 00 10	100 1100	1010100		10/1 1 10 10 11	100 00 10100	
conjunction	1855 Jun 10 22:12	19° Ⅱ 23'38		evening set	1861 Aug 18 19:31	10° m 40'00	
minimum elong	1855 Jun 10 22:16		1°13'23				
max. Earth dist.	1855 Jun 11 03:15		10.03471 AU	conjunction	1861 Sep 05 12:24	12° m 52'39	1°44'00
morning rise	1855 Jun 29 01:16	21° Ⅱ 44'23		minimum elong	1861 Sep 05 12:21	12° m 52'38	1°44'00
	1855 Oct 05 15:34	0ං වෙ		max. Earth dist.	1861 Sep 05 15:51	12° m 53'44	10.36650 AU
retrograde	1855 Oct 12 21:11	0°\$02'56		morning rise	1861 Sep 23 00:55	15° m 03'57	
	1855 Oct 20 03:19	30°R Ⅱ		retrograde	1862 Jan 02 00:57	22° m/41'16	
opposition	1855 Dec 18 23:38	26° Ⅲ 33'23	-1°13'24	opposition	1862 Mar 10 02:53	19° m) 18'47	2°19'53
min. Earth dist.	1855 Dec 18 19:11		8.02836 AU	min. Earth dist.	1862 Mar 09 23:49	19° m 19'24	8.42139 AU
direct	1856 Feb 23 14:25	23° I I04'57	0.02030710	direct	1862 May 18 10:44	15° m) 51'14	0.12137110
direct		0°95			,	-	
	1856 May 27 17:13			evening set	1862 Sep 01 14:59	23° m 44'33	
evening set	1856 Jun 06 22:10	1° © 16'55					
				conjunction	1862 Sep 19 03:05	25° m 54'20	2°00'53
conjunction	1856 Jun 25 02:00	3° © 37'53	-0°43'24	minimum elong	1862 Sep 19 03:02	25° m 54'19	2°00'53
minimum elong	1856 Jun 25 02:02	3° © 37'54	0°43'24	max. Earth dist.	1862 Sep 19 05:39	25° m 55'08	10.47545 AU
max. Earth dist.	1856 Jun 25 08:10	3° © 39'54	10.02840 AU	morning rise	1862 Oct 06 10:22	28° Mp 02'40	
morning rise	1856 Jul 13 06:22	5° © 59'03			1862 Oct 22 23:06	0∘ ⊽	
retrograde	1856 Oct 26 08:43	14° © 14'23		retrograde	1863 Jan 14 21:47	5° ≏ 31'49	
opposition	1857 Jan 01 03:55	10°\$45'36	-0°34'05	opposition	1863 Mar 23 07:10	2° ♀ 10'37	2°36'33
min. Earth dist.	1856 Dec 31 22:59	10°946'37	8.03597 AU	min. Earth dist.	1863 Mar 23 05:25	2° ₽ 10'58	8.53135 AU
direct	1857 Mar 09 00:22	7°916'37	0.03371 AU	mm. Latin dist.	1863 Apr 22 10:54	30°R.M)	6.55155 AC
				T' 4	1		
evening set	1857 Jun 22 01:07	15° © 30'13		direct	1863 Jun 01 02:00	28° m/44'03	
		_			1863 Jul 10 08:32	0∘ ⊽	
conjunction	1857 Jul 10 05:48	17° 9 51'05	-0°10'51	evening set	1863 Sep 15 00:30	6° ≏ 30'02	
minimum elong	1857 Jul 10 05:48	17° © 51'05	0°10'51				
behind sun begin	1857 Jul 10 00:17	17° 5 49'19		conjunction	1863 Oct 02 07:51	8° ≏ 37'01	2°11'24
behind sun end	1857 Jul 10 11:20	17° © 52'52		minimum elong	1863 Oct 02 07:49	8° ≏ 37'01	2°11'24
max. Earth dist.	1857 Jul 10 12:11	17°553'08	10.05043 AU	max. Earth dist.	1863 Oct 02 09:01	23′72 م °8	10.58461 AU
morning rise	1857 Jul 28 09:44	20°©11'43		morning rise	1863 Oct 19 10:22	10° ≏ 42'35	
retrograde	1857 Nov 09 16:22	28°521'40		retrograde	1864 Jan 27 10:55	18° Ω 04'15	
asc. node	1857 Nov 11 03:10	28°921'32		opposition	1864 Apr 04 06:14	14° Ω 44'13	2°45'15
			0°07'05			14° 2 44'14	8.63923 AU
opposition	1858 Jan 15 06:40	24°953'55		min. Earth dist.	1864 Apr 04 06:11		8.03923 AU
min. Earth dist.	1858 Jan 15 01:55	24°954'54	8.07159 AU	direct	1864 Jun 13 11:58	11° ≏ 18'44	
direct	1858 Mar 23 11:18	21° © 24'41		evening set	1864 Sep 27 00:02	18° ≏ 57'08	
evening set	1858 Jul 07 02:37	29° © 37'47					
	1858 Jul 10 00:37	$0 {\circ} \Omega$		conjunction	1864 Oct 14 03:00	21° ≏ 01'34	2°15'30
				minimum elong	1864 Oct 14 03:00	21° ≏ 01'33	2°15'29
conjunction	1858 Jul 25 06:21	1° Ω 57'37	0°22'12	max. Earth dist.	1864 Oct 14 02:16	21° ≏ 01'20	10.68967 AU
minimum elong	1858 Jul 25 06:20	1° Ω 57'37	0°22'13	morning rise	1864 Oct 31 01:32	23° ٩ 04'40	
max. Earth dist.	1858 Jul 25 12:23	1°Ω.59'34	10.09939 AU	C	1865 Jan 19 10:40	0°M	
morning rise	1858 Aug 12 08:12	4° Ω 16'49		retrograde	1865 Feb 07 18:49	0° ™ 19'42	
retrograde	1858 Nov 23 18:23	12° Ω 19'43		readgrade	1865 Feb 27 07:18	30°R Ω	
opposition	1859 Jan 29 06:38	8° Ω 53'13	0°47'21	opposition	1865 Apr 17 00:39	27° £ 00'38	2°46'08
	1859 Jan 29 02:13	8° Ω 54'07	8.13293 AU	* *			
min. Earth dist.			8.13293 AU	min. Earth dist.	1865 Apr 17 01:42	27° Ω 00'26	8.74083 AU
direct	1859 Apr 06 22:49	5° Ω 24'00		direct	1865 Jun 26 15:13	23° △ 36'17	
evening set	1859 Jul 21 23:38	13° Ω 34'30			1865 Sep 29 23:27	0° M	
	1859 Aug 02 05:05	15° Ω		evening set	1865 Oct 09 13:54	1° M 07'04	
conjunction	1859 Aug 09 00:50	15° Ω 52′28	0°53'29	conjunction	1865 Oct 26 13:11	3° M 09'17	2°13'23
minimum elong	1859 Aug 09 00:47	15° Ω 52'27	0°53'29	minimum elong	1865 Oct 26 13:12	3°M09'17	2°13'23
max. Earth dist.	1859 Aug 09 06:09	15° Ω 54'11	10.17198 AU	max. Earth dist.	1865 Oct 26 11:07	3° ™ 08'39	10.78655 AU
morning rise	1859 Aug 26 23:10	18° Ω 09'30		morning rise	1865 Nov 12 08:32	5° M ₊10'19	
retrograde	=	26° Ω 04'12		retrograde	1066 F 1 10 21 11	12° M ₊19'45	
opposition	1039 Dec 0/ 11.20				1866 Feb 19 21:11		
**	1859 Dec 07 11:20		1°24'10	•	1866 Feb 19 21:11		2°39'41
min Forth digt	1860 Feb 12 02:29	22° Ω 39'03	1°24'10 8 21571 AU	opposition	1866 Apr 29 14:39	9° ™ 01′23	2°39'41
min. Earth dist.	1860 Feb 12 02:29 1860 Feb 11 22:29	22°N39'03 22°N39'51	1°24'10 8.21571 AU	opposition min. Earth dist.	1866 Apr 29 14:39 1866 Apr 29 15:59	9° M 01'23 9° M 01'07	2°39'41 8.83209 AU
direct	1860 Feb 12 02:29 1860 Feb 11 22:29 1860 Apr 20 08:28	22°\Omega39'03 22°\Omega39'51 19°\Omega10'07		opposition min. Earth dist. direct	1866 Apr 29 14:39 1866 Apr 29 15:59 1866 Jul 09 12:18	9°M01'23 9°M01'07 5°M38'10	
	1860 Feb 12 02:29 1860 Feb 11 22:29	22°N39'03 22°N39'51		opposition min. Earth dist.	1866 Apr 29 14:39 1866 Apr 29 15:59	9° M 01'23 9° M 01'07	
direct evening set	1860 Feb 12 02:29 1860 Feb 11 22:29 1860 Apr 20 08:28 1860 Aug 04 13:59	22° \mathcal{Q} 39'03 22° \mathcal{Q} 39'51 19° \mathcal{Q} 10'07 27° \mathcal{Q} 16'13	8.21571 AU	opposition min. Earth dist. direct evening set	1866 Apr 29 14:39 1866 Apr 29 15:59 1866 Jul 09 12:18 1866 Oct 21 19:13	9°M01'23 9°M01'07 5°M38'10 13°M01'41	8.83209 AU
direct evening set conjunction	1860 Feb 12 02:29 1860 Feb 11 22:29 1860 Apr 20 08:28 1860 Aug 04 13:59 1860 Aug 22 11:24	22°\dagga39'03 22°\dagga39'51 19°\dagga10'07 27°\dagga16'13 29°\dagga31'41	8.21571 AU 1°21'13	opposition min. Earth dist. direct evening set conjunction	1866 Apr 29 14:39 1866 Apr 29 15:59 1866 Jul 09 12:18 1866 Oct 21 19:13 1866 Nov 07 15:42	9°M01'23 9°M01'07 5°M38'10 13°M01'41	8.83209 AU 2°05'32
direct evening set conjunction minimum elong	1860 Feb 12 02:29 1860 Feb 11 22:29 1860 Apr 20 08:28 1860 Aug 04 13:59 1860 Aug 22 11:24 1860 Aug 22 11:21	22°\d39'03 22°\d39'51 19°\d10'07 27°\d16'13 29°\d31'41 29°\d31'40	8.21571 AU 1°21'13 1°21'14	opposition min. Earth dist. direct evening set	1866 Apr 29 14:39 1866 Apr 29 15:59 1866 Jul 09 12:18 1866 Oct 21 19:13	9°M01'23 9°M01'07 5°M38'10 13°M01'41 15°M02'04 15°M02'05	8.83209 AU 2°05'32
direct evening set conjunction	1860 Feb 12 02:29 1860 Feb 11 22:29 1860 Apr 20 08:28 1860 Aug 04 13:59 1860 Aug 22 11:24	22°\d39'03 22°\d39'51 19°\d10'07 27°\d16'13 29°\d31'41 29°\d31'40	8.21571 AU 1°21'13	opposition min. Earth dist. direct evening set conjunction	1866 Apr 29 14:39 1866 Apr 29 15:59 1866 Jul 09 12:18 1866 Oct 21 19:13 1866 Nov 07 15:42	9°M01'23 9°M01'07 5°M38'10 13°M01'41	8.83209 AU 2°05'32
direct evening set conjunction minimum elong	1860 Feb 12 02:29 1860 Feb 11 22:29 1860 Apr 20 08:28 1860 Aug 04 13:59 1860 Aug 22 11:24 1860 Aug 22 11:21	22°\d39'03 22°\d39'51 19°\d10'07 27°\d16'13 29°\d31'41 29°\d31'40	8.21571 AU 1°21'13 1°21'14	opposition min. Earth dist. direct evening set conjunction	1866 Apr 29 14:39 1866 Apr 29 15:59 1866 Jul 09 12:18 1866 Oct 21 19:13 1866 Nov 07 15:42 1866 Nov 07 15:44	9°M01'23 9°M01'07 5°M38'10 13°M01'41 15°M02'04 15°M02'05 15°M	8.83209 AU 2°05'32
direct evening set conjunction minimum elong	1860 Feb 12 02:29 1860 Feb 11 22:29 1860 Apr 20 08:28 1860 Aug 04 13:59 1860 Aug 22 11:24 1860 Aug 22 11:21 1860 Aug 22 15:40	22°\d39'03 22°\d39'51 19°\d10'07 27°\d16'13 29°\d31'41 29°\d33'40 29°\d33'03	8.21571 AU 1°21'13 1°21'14	opposition min. Earth dist. direct evening set conjunction minimum elong	1866 Apr 29 14:39 1866 Apr 29 15:59 1866 Jul 09 12:18 1866 Oct 21 19:13 1866 Nov 07 15:42 1866 Nov 07 15:44 1866 Nov 07 08:48	9°M01'23 9°M01'07 5°M38'10 13°M01'41 15°M02'04 15°M02'05 15°M	8.83209 AU 2°05'32 2°05'32
direct evening set conjunction minimum elong max. Earth dist.	1860 Feb 12 02:29 1860 Feb 11 22:29 1860 Apr 20 08:28 1860 Aug 04 13:59 1860 Aug 22 11:24 1860 Aug 22 11:21 1860 Aug 22 15:40 1860 Aug 26 04:30	22°N39'03 22°N39'51 19°N10'07 27°N16'13 29°N31'41 29°N31'40 29°N33'03 0°M	8.21571 AU 1°21'13 1°21'14	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	1866 Apr 29 14:39 1866 Apr 29 15:59 1866 Jul 09 12:18 1866 Oct 21 19:13 1866 Nov 07 15:42 1866 Nov 07 08:48 1866 Nov 07 13:24	9°M01'23 9°M01'07 5°M38'10 13°M01'41 15°M02'04 15°M02'05 15°M 15°M01'23	8.83209 AU 2°05'32 2°05'32
direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	1860 Feb 12 02:29 1860 Feb 11 22:29 1860 Apr 20 08:28 1860 Aug 04 13:59 1860 Aug 22 11:24 1860 Aug 22 11:21 1860 Aug 22 15:40 1860 Aug 26 04:30 1860 Sep 09 05:08 1860 Dec 19 21:05	22° A 39'03 22° A 39'51 19° A 10'07 27° A 16'13 29° A 31'41 29° A 33'03 0° M 1° M 45'59 9° M 31'58	8.21571 AU 1°21'13 1°21'14	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	1866 Apr 29 14:39 1866 Apr 29 15:59 1866 Jul 09 12:18 1866 Oct 21 19:13 1866 Nov 07 15:42 1866 Nov 07 15:44 1866 Nov 07 08:48 1866 Nov 07 13:24 1866 Nov 24 08:37 1867 Mar 03 21:23	9°M01'23 9°M01'07 5°M38'10 13°M01'41 15°M02'04 15°M02'05 15°M 15°M01'23 17°M01'26 24°M06'26	8.83209 AU 2°05'32 2°05'32
direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	1860 Feb 12 02:29 1860 Feb 11 22:29 1860 Apr 20 08:28 1860 Aug 04 13:59 1860 Aug 22 11:24 1860 Aug 22 11:21 1860 Aug 22 15:40 1860 Aug 26 04:30 1860 Sep 09 05:08 1860 Dec 19 21:05 1861 Feb 24 17:17	22° \(\alpha 39'03\) 22° \(\alpha 39'51\) 19° \(\alpha 10'07\) 27° \(\alpha 16'13\) 29° \(\alpha 31'41\) 29° \(\alpha 31'40\) 29° \(\alpha 33'03\) 0° \(\mathred{m}\) 1° \(\mathred{m} 45'59\) 9° \(\mathred{m} 31'58\) 6° \(\mathred{m} 08'10\)	8.21571 AU 1°21'13 1°21'14 10.26312 AU 1°55'29	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	1866 Apr 29 14:39 1866 Apr 29 15:59 1866 Jul 09 12:18 1866 Oct 21 19:13 1866 Nov 07 15:42 1866 Nov 07 15:44 1866 Nov 07 08:48 1866 Nov 07 08:48 1866 Nov 24 08:37 1867 Mar 03 21:23 1867 May 12 00:40	9°M01'23 9°M01'07 5°M38'10 13°M01'41 15°M02'04 15°M02'05 15°M 15°M01'23 17°M01'26 24°M06'26 20°M48'31	8.83209 AU 2°05'32 2°05'32 10.87137 AU 2°26'37
direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	1860 Feb 12 02:29 1860 Feb 11 22:29 1860 Apr 20 08:28 1860 Aug 04 13:59 1860 Aug 22 11:24 1860 Aug 22 11:21 1860 Aug 22 15:40 1860 Aug 26 04:30 1860 Sep 09 05:08 1860 Dec 19 21:05	22° A 39'03 22° A 39'51 19° A 10'07 27° A 16'13 29° A 31'41 29° A 33'03 0° M 1° M 45'59 9° M 31'58	8.21571 AU 1°21'13 1°21'14 10.26312 AU	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	1866 Apr 29 14:39 1866 Apr 29 15:59 1866 Jul 09 12:18 1866 Oct 21 19:13 1866 Nov 07 15:42 1866 Nov 07 15:44 1866 Nov 07 08:48 1866 Nov 07 13:24 1866 Nov 24 08:37 1867 Mar 03 21:23	9°M01'23 9°M01'07 5°M38'10 13°M01'41 15°M02'04 15°M02'05 15°M 15°M01'23 17°M01'26 24°M06'26	8.83209 AU 2°05'32 2°05'32 10.87137 AU

direct evening set	1879 Dec 12 07:42 1880 Mar 21 23:08	8° Υ 57'57 16° Υ 33'57		conjunction minimum elong max. Earth dist.	1886 Jul 04 02:21 1886 Jul 04 02:22 1886 Jul 04 06:37	11°959'15 11°959'15	
conjunction	1880 Apr 08 04:37	18° Ƴ 43'31	-2°14'40	morning rise	1886 Jul 22 06:42	14°\$20'00	10.04902 AU
minimum elong	1880 Apr 08 04:37	18° Y 43'31	2°14'40	retrograde	1886 Nov 03 20:37	22° © 31'36	
max. Earth dist.	1880 Apr 08 05:02	18° Y 43'38	10.37310 AU	opposition	1887 Jan 09 14:03	19° © 03'23	-0°10'40
morning rise	1880 Apr 25 14:43	20° Y 54'34		min. Earth dist.	1887 Jan 09 10:11	19° 5 04'11	8.06209 AU
retrograde	1880 Aug 10 07:42	28° Y 57'30		direct	1887 Mar 17 16:39	15° © 34'10	
opposition	1880 Oct 18 11:57	25° Y 29'40	-2°47'04	asc. node	1887 Apr 17 19:09	16° 5 26'47	
min. Earth dist.	1880 Oct 18 11:17	25° Y 29'48	8.32361 AU	evening set	1887 Jun 30 23:24	23° © 46'47	
direct	1880 Dec 24 12:22	22°Υ06'30			1005 1 10 02 16	260006150	0000104
evening set	1881 Apr 04 15:36	29° Y 50′27		conjunction	1887 Jul 19 03:46	26°506'59	0°08'04
	1881 Apr 05 22:10	0°8		minimum elong	1887 Jul 19 03:45	26°506'59	0°08'04
conjunction	1881 Apr 22 01:29	2° 8 02'40	2°12'50	behind sun begin behind sun end	1887 Jul 18 21:14 1887 Jul 19 10:16	26°504'53 26°509'04	
minimum elong	1881 Apr 22 01:30	2° 8 02'40		max. Earth dist.	1887 Jul 19 08:48		10.08186 AU
max. Earth dist.	1881 Apr 22 02:59		10.27344 AU	morning rise	1887 Aug 06 06:42	28°926'44	10.00100710
morning rise	1881 May 09 15:43	4° 8 16'18			1887 Aug 18 19:05	0°N	
retrograde	1881 Aug 24 13:41	12° 8 26'01		retrograde	1887 Nov 17 23:59	6° Ω 32'08	
opposition	1881 Nov 01 05:21	8° 8 57'21	-2°40'41	opposition	1888 Jan 23 14:23	3° Ω 04'52	0°30'11
min. Earth dist.	1881 Nov 01 03:48	8° 8 57'40	8.22891 AU	min. Earth dist.	1888 Jan 23 10:05	3° Ω 05'44	8.10771 AU
direct	1882 Jan 06 22:06	5° 8 32'58			1888 Mar 09 20:01	30° ₹ 5	
evening set	1882 Apr 18 17:29	13° 8 24'47		direct	1888 Mar 31 03:16	29° © 35'22	
	1882 May 01 04:41	15° 8			1888 Apr 21 10:01	$0^{\circ}\Omega$	
				evening set	1888 Jul 14 21:50	7° Ω 46′28	
conjunction	1882 May 06 08:02	15° 8 39'37					
minimum elong	1882 May 06 08:05	15° 8 39'38		conjunction	1888 Aug 02 00:29	10°Ω05'14	0°40'13
max. Earth dist.	1882 May 06 09:54	15° 8 40'13	10.18511 AU	minimum elong	1888 Aug 02 00:27	10° Ω 05'13	0°40'13
morning rise	1882 May 24 02:36	17° 8 55'46		max. Earth dist.	1888 Aug 02 05:42		10.13958 AU
retrograde opposition	1882 Sep 08 00:28 1882 Nov 15 03:12	26° 8 10'35 22° 8 41'23	2°25'04	morning rise	1888 Aug 20 00:26 1888 Sep 10 14:54	12° Ω 23'10 15° Ω	
min. Earth dist.	1882 Nov 15 03:12 1882 Nov 15 01:11	22° 8 41'48	8.14824 AU	retrograde	1888 Nov 30 20:37	20° Ω 21'02	
direct	1883 Jan 20 14:35	19° 8 15'48	6.14624 AU	opposition	1889 Feb 05 11:19	16°Ω54'55	1°08'41
evening set	1883 May 03 03:50	27° 8 14'50		min. Earth dist.	1889 Feb 05 07:14	16° Ω 55'45	8.17658 AU
e venning see	1005 1114) 05 05.50	27 01100		mm. Burur dist.	1889 Mar 02 08:48	15°RΩ	0.17000110
conjunction	1883 May 20 23:02	29° 8 32'04	-1°47'35	direct	1889 Apr 14 12:12	13° Ω 25′28	
minimum elong	1883 May 20 23:05	29° 8 32'05	1°47'35		1889 May 27 06:15	15° Ω	
max. Earth dist.	1883 May 21 01:18	29° 8 32'48	10.11405 AU	evening set	1889 Jul 29 14:39	21° Ω 33′10	
	1883 May 24 13:24	Π °0					
morning rise	1883 Jun 07 21:41	1° Ⅱ 50′26		conjunction	1889 Aug 16 13:59	23° Ω 49'46	1°09'38
retrograde	1883 Sep 22 13:32	10° Ⅱ 08'09		minimum elong	1889 Aug 16 13:56	23° Ω 49'45	1°09'38
opposition	1883 Nov 29 04:27	6° Ⅲ 38'43		max. Earth dist.	1889 Aug 16 18:48		10.21825 AU
min. Earth dist.	1883 Nov 29 02:09		8.08761 AU	morning rise	1889 Sep 03 09:42	26° Ω 05'15	
direct	1884 Feb 03 14:49	3° Ⅱ 11'58		. 1	1889 Oct 07 03:33	0°Mp 30Mr.54151	
evening set	1884 May 16 21:34	11° Ⅱ 17'04		retrograde	1889 Dec 14 10:19	3° Mp 54'51	1042122
conjunction	1884 Jun 03 20:58	13° ∏ 36'14	102442	opposition min. Earth dist.	1890 Feb 19 03:53 1890 Feb 19 00:38	0° Mp 30'00 0° Mp 30'39	1°42'33 8.26425 AU
minimum elong	1884 Jun 03 21:01	13° Ⅱ 36'15		iiiii. Earui dist.	1890 Feb 25 08:41	0 11/3039 30°RΩ	6.20423 AU
max. Earth dist.	1884 Jun 03 23:46		10.06565 AU	direct	1890 Apr 28 17:09	27° Ω 00'53	
morning rise	1884 Jun 21 22:57	15° Ⅱ 56'13			1890 Jun 28 04:53	0° m)	
retrograde	1884 Oct 06 01:48	24° Ⅱ 14'18		evening set	1890 Aug 12 23:38	5° m 03'35	
opposition	1884 Dec 12 07:34	20° Ⅱ 44′58	-1°28'44	C	Č	•	
min. Earth dist.	1884 Dec 12 05:01	20° Ⅱ 45'30	8.05165 AU	conjunction	1890 Aug 30 18:39	7° m 17'32	1°34'40
direct	1885 Feb 16 20:42	17° Ⅱ 17'10		minimum elong	1890 Aug 30 18:35	7° m 17'31	1°34'41
evening set	1885 May 31 20:32	25° ∏ 26'44		max. Earth dist.	1890 Aug 30 22:19	7° m) 18'42	10.31309 AU
				morning rise	1890 Sep 17 09:28	9° m 30'11	
conjunction	1885 Jun 18 23:08	27° ∏ 47'09		retrograde	1890 Dec 27 16:31	17° m 11'14	
minimum elong	1885 Jun 18 23:11	27° Ⅱ 47'10		opposition	1891 Mar 04 15:23	13° m 47'41	2°10'05
max. Earth dist.	1885 Jun 19 02:32		10.04348 AU	min. Earth dist.	1891 Mar 04 13:06	13° Mp 48'09	8.36554 AU
	1885 Jul 06 02:09	0°©		direct	1891 May 12 17:21	10° Mp 19'14	
morning rise	1885 Jul 07 03:09	0°907'58		evening set	1891 Aug 26 23:15	18° Mp 15'37	
retrograde opposition	1885 Oct 20 12:39 1885 Dec 26 11:18	8°\$23'55 4°\$55'01	_0°51'13	conjunction	1891 Sep 13 13:26	20° m 26'43	1°54'12
min. Earth dist.	1885 Dec 26 08:17		8.04295 AU	minimum elong	1891 Sep 13 13:26 1891 Sep 13 13:23	20° m) 26'42	1°54'12 1°54'12
direct	1886 Mar 03 05:53	1°926'22	5.07273 AU	max. Earth dist.	1891 Sep 13 15:35		10.41866 AU
evening set	1886 Jun 15 22:02	9°938'29		morning rise	1891 Sep 30 23:12	20° my 36'25	101000 /10
		. = 3027			1891 Dec 27 17:42	ე∘ ი	
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retrograde	1892 Jan 09 14:20	0° £ 09'03		max. Earth dist.	1897 Nov 25 04:13		10.98285 AU
opposition	1892 Jan 22 12:49 1892 Mar 16 21:34	30°R M) 26° M) 46'49	2°30'12	morning rise retrograde	1897 Dec 11 21:34 1898 Mar 21 15:14	5° ₹ 16'16 12° ₹ 16'35	
min. Earth dist.	1892 Mar 16 19:43	26° Mp 47'11	8.47465 AU	opposition	1898 May 30 10:30	8° × 759'20	1°55'06
direct	1892 May 25 12:42	23°M ₀ 19'16	0.47403 AU	min. Earth dist.	1898 May 30 12:18	8° × 59'00	9.00831 AU
uncet	1892 Aug 29 23:07	0° <u>م</u>		direct	1898 Aug 09 14:56	5°×739'02	2.00031710
evening set	1892 Sep 08 12:51	1° ≏ 08'31		evening set	1898 Nov 20 03:04	12° × ⁷ 47'19	
evening sec	10,2 5 c p 00 12.01	1 —0051		evening sec	10,0110, 20 03.01	12 7. 1, 1,	
conjunction	1892 Sep 25 22:13	3° Ω 16'44	2°07'33	conjunction	1898 Dec 06 19:16	14° √ 44'45	1°23'54
minimum elong	1892 Sep 25 22:11	3° ≏ 16'43	2°07'33	minimum elong	1898 Dec 06 19:18	14° ∡ °44'46	1°23'54
max. Earth dist.	1892 Sep 25 23:28	3° ≏ 17'07	10.52923 AU	max. Earth dist.	1898 Dec 06 16:42	14° ₹ ¹44'00	11.02704 AU
morning rise	1892 Oct 13 03:01	5° ჲ 23'33		morning rise	1898 Dec 23 09:26	16° ∤ 741'41	
retrograde	1893 Jan 21 05:42	12° ≏ 48'18		retrograde	1899 Apr 02 12:15	23° х 40′59	
opposition	1893 Mar 29 22:25	9° ≏ 27'19	2°42'24	opposition	1899 Jun 11 14:18	20° х 23′46	1°29'07
min. Earth dist.	1893 Mar 29 20:46	9° ჲ 27'38	8.58591 AU	min. Earth dist.	1899 Jun 11 16:52	20° ₹ 23′18	9.04179 AU
direct	1893 Jun 08 01:42	6° ჲ 00'54		direct	1899 Aug 21 16:55	17° ∡ °04′20	
evening set	1893 Sep 21 16:09	13° ≏ 42'29		evening set	1899 Dec 01 13:34	24° 尽 08'45	
		_				_	
conjunction	1893 Oct 08 21:06	15° Ω 48'01	2°14'28	conjunction	1899 Dec 18 04:55	26° ₹ 05'45	1°01'13
minimum elong	1893 Oct 08 21:05	15° Ω 48'01	2°14'28	minimum elong	1899 Dec 18 04:57	26° ₹ 05'46	1°01'13
max. Earth dist.	1893 Oct 08 22:04		10.63939 AU	max. Earth dist.	1899 Dec 18 01:14	26° ₹ 04'40	11.05001 AU
morning rise	1893 Oct 25 21:24	17° £ 52'10		morning rise	1900 Jan 03 19:11	28° 🗷 02'29	
retrograde	1894 Feb 02 16:55	25° Ω 09'50	2046141		1900 Jan 21 08:09	0°る	
opposition	1894 Apr 11 18:17	21° Ω 49'58	2°46'41 8.69403 AU	retrograde	1900 Apr 14 06:59	5°る02'15 1°る44'47	0950147
min. Earth dist.	1894 Apr 11 17:07	21° Ω 50'12	8.09403 AU	opposition	1900 Jun 23 17:36	1° 5 44'47	0°59'47
direct	1894 Jun 21 05:53 1894 Oct 04 09:32	18° £ 24'51 25° £ 58'39		min. Earth dist.	1900 Jun 23 21:21 1900 Jul 18 17:34	30°R ∕ ⁷	9.05342 AU
evening set	1894 Oct 04 09.32	23 == 36 39		direct	1900 Jul 18 17.34 1900 Sep 02 15:16	30 KX. 28° ₹ 25'59	
conjunction	1894 Oct 21 10:36	28° ≏ 01'48	2°15'03	direct	1900 Sep 02 15:10 1900 Oct 17 05:01	26 x 23 39	
minimum elong	1894 Oct 21 10:37	28° ⊆ 01'48	2°15'03	evening set	1900 Dec 12 22:16	5° る 27'53	
max. Earth dist.	1894 Oct 21 11:11		10.74401 AU	evening set	1)00 Dec 12 22.10	3 02/33	
max. Earth dist.	1894 Nov 06 18:50	0°M	10.74401710	conjunction	1900 Dec 29 13:14	7° る 24'48	0°36'11
morning rise	1894 Nov 07 07:13	0°M03'40		minimum elong	1900 Dec 29 13:15	7° る 24'49	0°36'11
retrograde	1895 Feb 14 21:42	7°M15'10		max. Earth dist.	1900 Dec 29 08:16		11.05057 AU
opposition	1895 Apr 24 09:37	3°M56'18	2°43'24	morning rise	1901 Jan 15 04:09	9° ට 21'43	
min. Earth dist.	1895 Apr 24 09:49	3°M56'16	8.79416 AU	retrograde	1901 Apr 26 04:34	16° る 23'32	
direct	1895 Jul 04 03:44	0°M32'29		opposition	1901 Jul 05 21:05	13° る 05'32	0°28'08
evening set	1895 Oct 16 18:14	7° M 58'51		min. Earth dist.	1901 Jul 06 01:23	13° る 04'44	9.04222 AU
				direct	1901 Sep 14 14:09	9° る 47'07	
conjunction	1895 Nov 02 15:57	9°M59'57	2°09'41	evening set	1901 Dec 24 07:02	16° る 47'59	
minimum elong	1895 Nov 02 15:58	9° M 59'57	2°09'40				
max. Earth dist.	1895 Nov 02 14:58	9° ™ 59'39	10.83852 AU	conjunction	1902 Jan 09 22:13	18° る 45'13	0°09'43
morning rise	1895 Nov 19 09:48	11° M 59'57		minimum elong	1902 Jan 09 22:13	18° る 45'14	0°09'43
	1895 Dec 16 10:27	15° ™		behind sun begin	1902 Jan 09 16:27	18° る 43'32	
retrograde	1896 Feb 26 21:56	19° ™ 06′24		behind sun end	1902 Jan 10 03:59	18° る 46'55	
opposition	1896 May 05 20:52	15°M48'21	2°33'10	max. Earth dist.	1902 Jan 09 17:15		11.02794 AU
min. Earth dist.	1896 May 05 22:20	15°M48'04	8.88208 AU	morning rise	1902 Jan 26 14:00	20°る42'41	
direct	1896 May 16 16:03	15°RM 12°M 25147		retrograde	1902 May 08 06:18	27° る 48'07	
direct	1896 Jul 15 21:09	12°M25'47 15°M		desc. node opposition	1902 May 24 18:36 1902 Jul 18 01:33	27°る34'59 24°る29'20	0004146
evening set	1896 Sep 11 17:17 1896 Oct 27 19:08	19°M45'16		min. Earth dist.	1902 Jul 18 01:33	24 8 29 20 24° 8 28'34	9.00794 AU
evening set	1890 Oct 27 19.08	19 11643 10		direct	1902 Sep 26 10:54	24 3 28 34 21° 3 11'06	9.00794 AU
conjunction	1896 Nov 13 14:14	21°M44'44	1°58'55	evening set	1902 Sep 20 10:34 1903 Jan 04 17:36	28° ප 12'30	
minimum elong	1896 Nov 13 14:14		1°58'54	evening set	1903 Jan 19 22:14	0°≈	
max. Earth dist.	1896 Nov 13 11:52		10.91917 AU		1703 3411 17 22.11	0 / 0 .	
morning rise	1896 Nov 30 06:14	23°M43'17		conjunction	1903 Jan 21 09:20	0° ≈ 10'26	-0°17'24
<i>3</i> - ,	1897 Feb 07 14:32	0° √		minimum elong	1903 Jan 21 09:19	0°≈10'25	
retrograde	1897 Mar 09 19:19	0° ∡ ¹45'59		max. Earth dist.	1903 Jan 21 04:29		10.98259 AU
-	1897 Apr 09 14:28	30°RM		morning rise	1903 Feb 07 02:17	2° ≈ 08'48	
opposition	1897 May 18 04:58	27°M28'28	2°16'46	retrograde	1903 May 20 12:08	9° ≈ 19'22	
min. Earth dist.	1897 May 18 06:49	27°M28'08	8.95439 AU	opposition	1903 Jul 30 08:27	5° ≈ 59'35	-0°37'50
direct	1897 Jul 28 08:15	24°M07'07		min. Earth dist.	1903 Jul 30 12:21	5° ≈ 58'51	8.95194 AU
	1897 Oct 27 18:33	0° ≯		direct	1903 Oct 08 08:06	2° ≈ 41'17	
evening set	1897 Nov 08 13:27	1° ≯ 20′28		evening set	1904 Jan 16 07:32	9° ≈ 44'44	
conjunction	1897 Nov 25 06:47	3° √ 18'44	1°43'24	conjunction	1904 Feb 01 23:57	11° ≈ 43'40	
minimum elong	1897 Nov 25 06:50	3° ≯ 18'44	1°43'24	minimum elong	1904 Feb 01 23:55	11° ≈ 43'40	0°44'00

max. Earth dist.	1904 Feb 01 18:34	11° ≈ 42′04	10.91671 AU	max. Earth dist.	1910 Apr 17 02:42		10.29773 AU
morning rise	1904 Feb 18 18:33	13° ≈ 43'17		morning rise	1910 May 04 15:58	28° Ƴ 27'24	
	1904 Feb 29 21:35	15° ≈			1910 May 17 07:29	9° 8	
retrograde	1904 May 31 23:27	21° ≈ 00′21		retrograde	1910 Aug 19 12:50	6° 8 35'01	
opposition	1904 Aug 10 18:38	17° ≈ 39'21	-1°09'50	opposition	1910 Oct 27 09:48	3° 8 06'05	-2°44'51
min. Earth dist.	1904 Aug 10 22:51	17° ≈ 38'34	8.87700 AU	min. Earth dist.	1910 Oct 27 09:37	_	8.24967 AU
mm. Latin dist.	•	17 ≈ 3034	0.07700710	mm. Earth dist.	1910 Dec 14 23:13	30°RY	0.24707 710
	1904 Sep 20 23:16	•		11			
direct	1904 Oct 19 06:57	14° ≈ 20'42		direct	1911 Jan 02 05:19	29° Y 41'35	
	1904 Nov 16 03:49	15° ≈			1911 Jan 20 09:18	9° 8	
evening set	1905 Jan 27 02:24	21° ≈ 27'40		evening set	1911 Apr 13 17:30	7° 8 30'44	
conjunction	1905 Feb 12 19:56	23° ≈ 27'55	-1°09'10	conjunction	1911 May 01 05:52	9° 8 44'38	-2°08'58
minimum elong	1905 Feb 12 19:54	23° ≈ 27'55	1°09'10	minimum elong	1911 May 01 05:54	9° 8 44'39	2°08'58
max. Earth dist.	1905 Feb 12 14:19		10.83340 AU	max. Earth dist.	1911 May 01 06:42	_	10.20238 AU
morning rise	1905 Nar 01 16:34	25°≈29'07	10.05540710	morning rise	1911 May 18 22:41	11° 8 59'58	10.20230710
morning risc				morning risc	•		
	1905 Apr 13 08:38	0°) (1911 Jun 12 23:23	15° 8	
retrograde	1905 Jun 13 15:09	2°) 53′46		retrograde	1911 Sep 02 20:57	20° 8 13'37	
	1905 Aug 17 00:43	30° Ŗ ≈		opposition	1911 Nov 10 06:11	16° 8 43'58	
opposition	1905 Aug 23 08:37	29° ≈ 31'24	-1°39'29	min. Earth dist.	1911 Nov 10 04:55	16° 8 44'13	8.16199 AU
min. Earth dist.	1905 Aug 23 12:49	29° ≈ 30'36	8.78646 AU		1911 Dec 02 14:31	15° ₹႘	
direct	1905 Oct 31 09:03	26°≈12'08		direct	1912 Jan 15 20:23	13° 8 18'16	
	1906 Jan 08 12:46	0° ∀			1912 Feb 28 03:41	15° 8	
evening set	1906 Feb 08 03:25	3° ¥ 23'59		evening set	1912 Apr 27 00:18	21° 8 15'00	
evening set	1700100 00 03.23	3 /(233)		evening set	1712 Apr 27 00.16	21 013 00	
. ,.	1006 E 1 24 22 41	501/05154	1021147		1010) (14 17 24	220 421126	1055151
conjunction	1906 Feb 24 22:41	5°) €25'54		conjunction	1912 May 14 17:34	23° 8 31'26	
minimum elong	1906 Feb 24 22:39	5° ∺ 25'53		minimum elong	1912 May 14 17:37	23° 8 31'27	
max. Earth dist.	1906 Feb 24 18:08	5°) 24'31	10.73615 AU	max. Earth dist.	1912 May 14 20:21	23° 8 32'20	10.12385 AU
morning rise	1906 Mar 13 21:35	7° ∺ 28'55		morning rise	1912 Jun 01 14:34	25° 8 49'07	
retrograde	1906 Jun 26 14:37	15°) 02'06			1912 Jul 07 06:11	$\Pi^{\circ}0$	
opposition	1906 Sep 05 03:06	11°) 38'14	-2°05'26	retrograde	1912 Sep 16 08:36	4° Ⅱ 06'42	
min. Earth dist.	1906 Sep 05 06:22		8.68400 AU	opposition	1912 Nov 23 06:19	0°∏36'42	-2°12'47
direct	1906 Nov 12 17:09	8°) 18'11	0.00100710	min. Earth dist.	1912 Nov 23 03:37		8.09348 AU
				mm. Earth dist.			6.09346 AU
evening set	1907 Feb 20 11:56	15°) (36′07			1912 Nov 30 18:20	30°R₩	
				direct	1913 Jan 28 18:13	27° 8 09'53	
conjunction	1907 Mar 09 09:26	17° ∺ 39'59			1913 Mar 26 13:05	Π $^{\circ}0$	
minimum elong	1907 Mar 09 09:24	17°) 39'58	1°50'43	evening set	1913 May 11 15:16	5° Ⅱ 13'11	
max. Earth dist.	1907 Mar 09 06:29	17°) 39'04	10.62894 AU				
morning rise	1907 Mar 26 10:52	19°) 45'07		conjunction	1913 May 29 13:06	7° Ⅱ 31'49	-1°35'46
retrograde	1907 Jul 09 22:15	27° ¥ 27′21		minimum elong	1913 May 29 13:09	7° Ⅱ 31'50	1°35'46
opposition	1907 Sep 18 02:39	24°) (02'00	-2°26'14	max. Earth dist.	1913 May 29 17:19		10.06694 AU
min. Earth dist.	1907 Sep 18 04:27		8.57395 AU	morning rise	1913 Jun 16 13:41	9° П 51'22	10.00071710
	-		6.57595 AU	•			
direct	1907 Nov 25 04:06	20°) (41'01		retrograde	1913 Sep 30 21:49	18° Ⅱ 10′25	
evening set	1908 Mar 04 05:06	28° ∺ 06'02		opposition	1913 Dec 07 08:59	14° ∏ 40′28	
	1908 Mar 19 14:22	$0^{\circ}\mathbf{\Upsilon}$		min. Earth dist.	1913 Dec 07 05:12		8.04855 AU
				direct	1914 Feb 11 20:52	11° Ⅱ 12'41	
conjunction	1908 Mar 21 05:20	0° Y 12'07	-2°04'51	evening set	1914 May 26 12:29	19° Ⅱ 21′09	
minimum elong	1908 Mar 21 05:19	0° Ƴ 12'07	2°04'51				
max. Earth dist.	1908 Mar 21 03:14		10.51661 AU	conjunction	1914 Jun 13 13:59	21° Ⅱ 41′20	-1°09'45
morning rise	1908 Apr 07 09:56	2° Υ 19'38		minimum elong	1914 Jun 13 14:02		1°09'45
retrograde	1908 Jul 22 12:46	10° Y 10'59		max. Earth dist.	1914 Jun 13 19:14		10.03549 AU
opposition	1908 Sep 30 07:40	6° Υ 44'14	-2°40'33	morning rise	1914 Jul 01 17:10	24° I I02'05	10.03377 AU
* *	1908 Sep 30 07.40			morning risc	1714 Jul 01 1/.10	24 H02 03	
min. Earth dist.	1000 0 20 00.21	COM 4 410 4				000	
	1908 Sep 30 08:31	6° Y 44'04	8.46131 AU		1914 Aug 24 17:26	0ංම	
direct	1908 Dec 06 21:04	3° Y 22'10	8.46131 AU	retrograde	1914 Aug 24 17:26 1914 Oct 15 11:41	2° © 20'05	
evening set	-		8.46131 AU	retrograde	1914 Aug 24 17:26	2°©20′05 30°R∏	
	1908 Dec 06 21:04	3° Y 22'10	8.46131 AU	retrograde opposition	1914 Aug 24 17:26 1914 Oct 15 11:41	2° © 20'05	-1°08'36
	1908 Dec 06 21:04	3° Y 22'10		-	1914 Aug 24 17:26 1914 Oct 15 11:41 1914 Dec 07 06:50	2°€20'05 30°R∏ 28°∏50'34	-1°08'36 8.03042 AU
evening set	1908 Dec 06 21:04 1909 Mar 17 07:32	3° Y 22'10 10° Y 55'00	-2°13'08	opposition	1914 Aug 24 17:26 1914 Oct 15 11:41 1914 Dec 07 06:50 1914 Dec 21 13:07	2°€20'05 30°R∏ 28°∏50'34	
evening set conjunction minimum elong	1908 Dec 06 21:04 1909 Mar 17 07:32 1909 Apr 03 11:10 1909 Apr 03 11:09	3°Y22'10 10°Y55'00 13°Y03'35 13°Y03'34	-2°13'08 2°13'08	opposition min. Earth dist.	1914 Aug 24 17:26 1914 Oct 15 11:41 1914 Dec 07 06:50 1914 Dec 21 13:07 1914 Dec 21 08:39 1915 Feb 26 03:25	2°\$20'05 30°R¶ 28°¶50'34 28°¶51'29	
evening set conjunction minimum elong max. Earth dist.	1908 Dec 06 21:04 1909 Mar 17 07:32 1909 Apr 03 11:10 1909 Apr 03 11:09 1909 Apr 03 09:35	3°Y22'10 10°Y55'00 13°Y03'35 13°Y03'34 13°Y03'05	-2°13'08	opposition min. Earth dist. direct	1914 Aug 24 17:26 1914 Oct 15 11:41 1914 Dec 07 06:50 1914 Dec 21 13:07 1914 Dec 21 08:39 1915 Feb 26 03:25 1915 May 11 21:22	2°\$20'05 30°R∏ 28°∏50'34 28°∏51'29 25°∏22'01 0°\$	
evening set conjunction minimum elong max. Earth dist. morning rise	1908 Dec 06 21:04 1909 Mar 17 07:32 1909 Apr 03 11:10 1909 Apr 03 11:09 1909 Apr 03 09:35 1909 Apr 20 19:33	3°Υ22'10 10°Υ55'00 13°Υ03'35 13°Υ03'34 13°Υ03'05 15°Υ13'39	-2°13'08 2°13'08	opposition min. Earth dist.	1914 Aug 24 17:26 1914 Oct 15 11:41 1914 Dec 07 06:50 1914 Dec 21 13:07 1914 Dec 21 08:39 1915 Feb 26 03:25	2°\$20'05 30°RII 28°II50'34 28°II51'29 25°II22'01	
evening set conjunction minimum elong max. Earth dist. morning rise retrograde	1908 Dec 06 21:04 1909 Mar 17 07:32 1909 Apr 03 11:10 1909 Apr 03 09:35 1909 Apr 03 09:35 1909 Apr 20 19:33 1909 Aug 05 09:32	3°Y22'10 10°Y55'00 13°Y03'35 13°Y03'34 13°Y03'05 15°Y13'39 23°Y13'39	-2°13'08 2°13'08 10.40440 AU	opposition min. Earth dist. direct evening set	1914 Aug 24 17:26 1914 Oct 15 11:41 1914 Dec 07 06:50 1914 Dec 21 13:07 1914 Dec 21 08:39 1915 Feb 26 03:25 1915 May 11 21:22 1915 Jun 10 13:29	2°\$20'05 30°RII 28°II 50'34 28°II 51'29 25°II 22'01 0°\$ 3°\$33'52	8.03042 AU
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	1908 Dec 06 21:04 1909 Mar 17 07:32 1909 Apr 03 11:10 1909 Apr 03 11:09 1909 Apr 03 09:35 1909 Apr 20 19:33 1909 Aug 05 09:32 1909 Oct 13 18:10	3°Y22'10 10°Y55'00 13°Y03'35 13°Y03'34 13°Y03'05 15°Y13'39 23°Y13'39 19°Y45'41	-2°13'08 2°13'08 10.40440 AU -2°47'04	opposition min. Earth dist. direct evening set conjunction	1914 Aug 24 17:26 1914 Oct 15 11:41 1914 Dec 07 06:50 1914 Dec 21 13:07 1914 Dec 21 08:39 1915 Feb 26 03:25 1915 May 11 21:22 1915 Jun 10 13:29	2°\$20'05 30°RII 28°II50'34 28°II51'29 25°II22'01 0°\$ 3°\$33'52 5°\$54'48	8.03042 AU -0°39'24
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	1908 Dec 06 21:04 1909 Mar 17 07:32 1909 Apr 03 11:10 1909 Apr 03 11:09 1909 Apr 03 09:35 1909 Apr 20 19:33 1909 Aug 05 09:32 1909 Oct 13 18:10 1909 Oct 13 18:33	3°Y22'10 10°Y55'00 13°Y03'35 13°Y03'34 13°Y03'05 15°Y13'39 23°Y13'39 19°Y45'41 19°Y45'37	-2°13'08 2°13'08 10.40440 AU	opposition min. Earth dist. direct evening set conjunction minimum elong	1914 Aug 24 17:26 1914 Oct 15 11:41 1914 Dec 07 06:50 1914 Dec 21 13:07 1914 Dec 21 08:39 1915 Feb 26 03:25 1915 May 11 21:22 1915 Jun 10 13:29 1915 Jun 28 17:21 1915 Jun 28 17:23	2°\$20'05 30°RII 28°II50'34 28°II51'29 25°II22'01 0°\$ 3°\$33'52 5°\$54'48 5°\$54'48	8.03042 AU -0°39'24 0°39'24
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	1908 Dec 06 21:04 1909 Mar 17 07:32 1909 Apr 03 11:10 1909 Apr 03 11:09 1909 Apr 03 09:35 1909 Apr 20 19:33 1909 Aug 05 09:32 1909 Oct 13 18:10	3°Y22'10 10°Y55'00 13°Y03'35 13°Y03'34 13°Y03'05 15°Y13'39 23°Y13'39 19°Y45'41 19°Y45'37 16°Y22'25	-2°13'08 2°13'08 10.40440 AU -2°47'04	opposition min. Earth dist. direct evening set conjunction	1914 Aug 24 17:26 1914 Oct 15 11:41 1914 Dec 07 06:50 1914 Dec 21 13:07 1914 Dec 21 08:39 1915 Feb 26 03:25 1915 May 11 21:22 1915 Jun 10 13:29	2°\$20'05 30°RII 28°II50'34 28°II51'29 25°II22'01 0°\$ 3°\$33'52 5°\$54'48 5°\$54'48 5°\$56'40	8.03042 AU -0°39'24
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	1908 Dec 06 21:04 1909 Mar 17 07:32 1909 Apr 03 11:10 1909 Apr 03 11:09 1909 Apr 03 09:35 1909 Apr 20 19:33 1909 Aug 05 09:32 1909 Oct 13 18:10 1909 Oct 13 18:33	3°Y22'10 10°Y55'00 13°Y03'35 13°Y03'34 13°Y03'05 15°Y13'39 23°Y13'39 19°Y45'41 19°Y45'37	-2°13'08 2°13'08 10.40440 AU -2°47'04	opposition min. Earth dist. direct evening set conjunction minimum elong	1914 Aug 24 17:26 1914 Oct 15 11:41 1914 Dec 07 06:50 1914 Dec 21 13:07 1914 Dec 21 08:39 1915 Feb 26 03:25 1915 May 11 21:22 1915 Jun 10 13:29 1915 Jun 28 17:21 1915 Jun 28 17:23	2°\$20'05 30°RII 28°II50'34 28°II51'29 25°II22'01 0°\$ 3°\$33'52 5°\$54'48 5°\$54'48	8.03042 AU -0°39'24 0°39'24
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	1908 Dec 06 21:04 1909 Mar 17 07:32 1909 Apr 03 11:10 1909 Apr 03 11:09 1909 Apr 03 09:35 1909 Apr 20 19:33 1909 Aug 05 09:32 1909 Oct 13 18:10 1909 Oct 13 18:33 1909 Dec 19 21:51	3°Y22'10 10°Y55'00 13°Y03'35 13°Y03'34 13°Y03'05 15°Y13'39 23°Y13'39 19°Y45'41 19°Y45'37 16°Y22'25	-2°13'08 2°13'08 10.40440 AU -2°47'04	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	1914 Aug 24 17:26 1914 Oct 15 11:41 1914 Dec 07 06:50 1914 Dec 21 13:07 1914 Dec 21 08:39 1915 Feb 26 03:25 1915 May 11 21:22 1915 Jun 10 13:29 1915 Jun 28 17:21 1915 Jun 28 17:23 1915 Jun 28 23:08	2°\$20'05 30°RII 28°II50'34 28°II51'29 25°II22'01 0°\$ 3°\$33'52 5°\$54'48 5°\$54'48 5°\$56'40	8.03042 AU -0°39'24 0°39'24
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	1908 Dec 06 21:04 1909 Mar 17 07:32 1909 Apr 03 11:10 1909 Apr 03 09:35 1909 Apr 03 09:35 1909 Apr 20 19:33 1909 Aug 05 09:32 1909 Oct 13 18:33 1909 Dec 19 21:51 1910 Mar 30 19:45	3°Y22'10 10°Y55'00 13°Y03'35 13°Y03'34 13°Y03'05 15°Y13'39 23°Y13'39 19°Y45'41 19°Y45'37 16°Y22'25	-2°13'08 2°13'08 10.40440 AU -2°47'04 8.35135 AU	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	1914 Aug 24 17:26 1914 Oct 15 11:41 1914 Dec 07 06:50 1914 Dec 21 13:07 1914 Dec 21 08:39 1915 Feb 26 03:25 1915 May 11 21:22 1915 Jun 10 13:29 1915 Jun 28 17:21 1915 Jun 28 17:23 1915 Jun 28 23:08 1915 Jul 16 21:44	2°\$20'05 30°RII 28°II50'34 28°II51'29 25°II22'01 0°\$ 3°\$33'52 5°\$54'48 5°\$56'40 8°\$15'53	8.03042 AU -0°39'24 0°39'24 10.03178 AU
evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	1908 Dec 06 21:04 1909 Mar 17 07:32 1909 Apr 03 11:10 1909 Apr 03 11:09 1909 Apr 03 09:35 1909 Apr 20 19:33 1909 Aug 05 09:32 1909 Oct 13 18:10 1909 Oct 13 18:33 1909 Dec 19 21:51	3°Y22'10 10°Y55'00 13°Y03'35 13°Y03'34 13°Y03'05 15°Y13'39 23°Y13'39 19°Y45'41 19°Y45'37 16°Y22'25 24°Y03'27	-2°13'08 2°13'08 10.40440 AU -2°47'04 8.35135 AU	opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	1914 Aug 24 17:26 1914 Oct 15 11:41 1914 Dec 07 06:50 1914 Dec 21 13:07 1914 Dec 21 08:39 1915 Feb 26 03:25 1915 May 11 21:22 1915 Jun 10 13:29 1915 Jun 28 17:21 1915 Jun 28 17:23 1915 Jun 28 23:08 1915 Jul 16 21:44 1915 Oct 29 22:58	2°\$20'05 30°RII 28°II.50'34 28°II.51'29 25°II.22'01 0°\$ 3°\$33'52 5°\$54'48 5°\$56'40 8°\$15'53 16°\$30'28 13°\$01'43	8.03042 AU -0°39'24 0°39'24 10.03178 AU

direct	1916 Mar 11 13:51	9° © 32'38		opposition	1922 Mar 25 16:47	4° £ 15'17	2027154
evening set	1916 Jun 24 16:01	9 \$32 36 17°\$45'56		min. Earth dist.	1922 Mar 25 15:37	4° ⊆ 15'17	8.54425 AU
evening set	1910 Juli 24 10.01	17 2943 30		direct	1922 Mai 23 13:37 1922 Jun 03 13:07	4 ≗ 1331 0° ჲ 48'48	6.34423 AU
:	1016 I-1 12 20-24	20° © 06'40	0006146	evening set			
conjunction	1916 Jul 12 20:34			evening set	1922 Sep 17 10:08	8° £ 33'51	
minimum elong	1916 Jul 12 20:34	20°506'41	0°06'45		1000 0 + 04 16 56	100 0 40121	2012107
behind sun begin	1916 Jul 12 13:43	20°504'28		conjunction	1922 Oct 04 16:56	10° £ 40'31	
behind sun end	1916 Jul 13 03:25	20°508'53		minimum elong	1922 Oct 04 16:55	10° £ 40'31	2°12'07
max. Earth dist.	1916 Jul 13 02:10	20°508'28	10.05616 AU	max. Earth dist.	1922 Oct 04 17:23		10.59740 AU
morning rise	1916 Jul 31 00:27	22° © 27'10		morning rise	1922 Oct 21 19:08	12° ≏ 45'48	
asc. node	1916 Sep 27 18:34	28° © 45'40		retrograde	1923 Jan 29 18:45	20° Ω 06'36	
	1916 Oct 17 15:33	0 $^{\circ}\Omega$		opposition	1923 Apr 07 15:09	16° ≙ 46'41	2°45'35
retrograde	1916 Nov 12 05:10	0° Ω 36'13		min. Earth dist.	1923 Apr 07 15:28	16° ≙ 46'37	8.65175 AU
	1916 Dec 07 19:24	30° ₹ 5		direct	1923 Jun 16 21:41	13° ≏ 21'19	
opposition	1917 Jan 17 19:15	27° © 08'32	0°12'09	evening set	1923 Sep 30 08:30	20° ≏ 58'48	
min. Earth dist.	1917 Jan 17 15:00	27° © 09'25	8.07833 AU				
direct	1917 Mar 26 01:54	23° © 39'14		conjunction	1923 Oct 17 11:05	23° ഫ 02'59	2°15'24
	1917 Jun 24 13:52	$0 {\circ} \Omega$		minimum elong	1923 Oct 17 11:05	23° ഫ 02'59	2°15'24
evening set	1917 Jul 09 16:56	1° Ω 51'55		max. Earth dist.	1923 Oct 17 09:40	23° ഫ 02'33	10.70153 AU
				morning rise	1923 Nov 03 09:23	25° ≏ 05'52	
conjunction	1917 Jul 27 20:26	4° Ω 11'31	0°26'10		1923 Dec 20 04:24	0° M	
minimum elong	1917 Jul 27 20:24	4° Ω 11'31	0°26'10	retrograde	1924 Feb 11 01:16	2°M20'12	
max. Earth dist.	1917 Jul 28 01:46	4° Ω 13'15	10.10704 AU		1924 Apr 06 08:37	30° ₹ Ω	
morning rise	1917 Aug 14 22:04	6° £ 30′31		opposition	1924 Apr 19 08:52	29° ഫ 01'13	2°45'31
retrograde	1917 Nov 26 04:38	14° £ 32′28		min. Earth dist.	1924 Apr 19 09:42	29° ≙ 01'04	8.75185 AU
opposition	1918 Jan 31 18:37	11° Ω 06′03	0°52'04	direct	1924 Jun 29 00:44	25° ≏ 37'01	
min. Earth dist.	1918 Jan 31 14:15	11° Ω 06'57	8.14137 AU		1924 Sep 13 21:58	0°M	
direct	1918 Apr 09 13:34	7° Ω 36'49		evening set	1924 Oct 11 21:28	3°M07'02	
	1918 Jul 18 06:35	15° Ω		•			
evening set	1918 Jul 24 13:10	15° Ω 46'47		conjunction	1924 Oct 28 20:35	5°M09'03	2°12'33
•				minimum elong	1924 Oct 28 20:35	5°M09'03	2°12'32
conjunction	1918 Aug 11 14:02	18° Ω 04'29	0°57'04	max. Earth dist.	1924 Oct 28 18:38	5°M08'28	10.79652 AU
minimum elong	1918 Aug 11 13:59	18° Ω 04'28	0°57'04	morning rise	1924 Nov 14 15:39	7° ጤ 09'54	
max. Earth dist.	1918 Aug 11 19:15	18° Ω 06'09	10.18109 AU	retrograde	1925 Feb 22 04:52	14°M18'52	
morning rise	1918 Aug 29 11:57	20°Ω21'13		opposition	1925 May 01 22:26	11°M00'35	2°38'12
retrograde	1918 Dec 09 21:31	28° Ω 15'03		min. Earth dist.	1925 May 01 22:28	11°ML00'21	8.84083 AU
opposition	1919 Feb 14 13:52	24° Ω 49'59	1°28'16	direct	1925 Jul 11 21:18	7°M37'32	0.04003710
min. Earth dist.	1919 Feb 14 09:21	24° Ω 50'54	8.22546 AU	evening set	1925 Oct 24 02:06	15°M00'25	
direct	1919 Apr 23 21:10	21° Ω 21'06	0.22340 AC	evening set	1925 Oct 24 02:00 1925 Oct 24 00:40	15°M	
evening set	1919 Aug 08 02:34	21° 0 21'00' 29° Ω 26'32			1923 Oct 24 00.40	15 116	
evening set	1919 Aug 08 02:34 1919 Aug 12 13:51	0° m)		conjunction	1925 Nov 09 22:29	17° M .00'42	2°04'01
	1919 Aug 12 13.31	V III		minimum elong	1925 Nov 09 22:29 1925 Nov 09 22:31	17 11600 42 17° 11600 42	2°04'01
:	1010 A 25 22-29	10 m , 41144	1024114	_			
conjunction	1919 Aug 25 23:38	1° Mp 41'44		max. Earth dist.	1925 Nov 09 20:19		10.87882 AU
minimum elong	1919 Aug 25 23:35	1° Mp 41'43	1°24'14	morning rise	1925 Nov 26 15:09	18°M59'56	
max. Earth dist.	1919 Aug 26 04:34	-	10.27346 AU	retrograde	1926 Mar 06 04:53	26°M04'38	2024121
morning rise	1919 Sep 12 16:49	3° Mp 55'42		opposition	1926 May 14 08:20	22°M46'50	2°24'21
retrograde	1919 Dec 23 08:08	11° Mp 40'51	1050146	min. Earth dist.	1926 May 14 10:33	22°M46'25	8.91544 AU
opposition	1920 Feb 28 04:04	8° Mp 17'08	1°58'46	direct	1926 Jul 24 09:37	19°M24'49	
min. Earth dist.	1920 Feb 27 23:50	8° Mp 17'59	8.32505 AU	evening set	1926 Nov 04 23:39	26°M41'18	
direct	1920 May 07 00:04	4° Mp 48'51		. ,.	1026 N 21 17 52	200 m 40112	1050126
evening set	1920 Aug 21 07:13	12° m) 48'18		conjunction	1926 Nov 21 17:52	28°M40'13	1°50'26
	1020 9 07 22 42	150 m 00140	1046!10	minimum elong	1926 Nov 21 17:54	28°M40'14	
conjunction	1920 Sep 07 23:43	15° Mp 00'40	1°46'18	max. Earth dist.	1926 Nov 21 14:38		10.94537 AU
minimum elong	1920 Sep 07 23:40	15° Mp 00'39	1°46'18		1926 Dec 02 22:34	0° √	
max. Earth dist.	1920 Sep 08 04:00	15° mp 02'01	10.37804 AU	morning rise	1926 Dec 08 09:07	0° ₹ 38'19	
morning rise	1920 Sep 25 11:38	17° mp 11'39		retrograde	1927 Mar 18 00:48	7°× 7 40'02	
retrograde	1921 Jan 04 10:52	24° m/48'04		opposition	1927 May 26 15:24	4° ₹ 22'28	2°04'50
opposition	1921 Mar 12 13:06	21° m/ 25'41	2°22'13	min. Earth dist.	1927 May 26 18:56	4°×21'48	8.97290 AU
min. Earth dist.	1921 Mar 12 10:10	21° m/26'17	8.43355 AU	direct	1927 Aug 05 18:58	1° ∡ 01'21	
direct	1921 May 20 21:37	17° mp 58'13		evening set	1927 Nov 16 15:39	8° ≯ 12'24	
evening set	1921 Sep 04 01:47	25° m 50'41		_		=	
_				conjunction	1927 Dec 03 08:15	10° ∡ 10′20	1°32'31
conjunction	1921 Sep 21 13:21	28° Mp 00'08	2°02'24	minimum elong	1927 Dec 03 08:18	10° ∡ 10′20	1°32'32
minimum elong	1921 Sep 21 13:18	28° Mp 00'07	2°02'24	max. Earth dist.	1927 Dec 03 03:38	10° ∡ 08'57	10.99372 AU
max. Earth dist.	1921 Sep 21 16:01		10.48804 AU	morning rise	1927 Dec 19 22:50	12° ∡ 07'40	
	1921 Oct 07 17:21	0∘ ⊽		retrograde	1928 Mar 28 20:37	19° ∡ 07'52	
morning rise	1921 Oct 08 20:07	0° 亞 08'09		opposition	1928 Jun 06 20:18	15° ₹ 50'15	1°40'33
retrograde	1922 Jan 17 05:56	7° £ 36'22		min. Earth dist.	1928 Jun 07 00:11	15° х 49′32	9.01121 AU

max. Earth dist.	1940 Apr 24 19:33	4°₩22'07	10.26045 AU		1946 Aug 02 14:41	0°N	
morning rise	1940 May 12 08:19	6° 8 36'28	10.20043 AU	morning rise	1946 Aug 09 00:13	0° Ω 48'54	
retrograde	1940 Aug 27 07:43	14° 8 46'57		retrograde	1946 Nov 20 15:21	8° Ω 53'24	
opposition	1940 Nov 03 21:01	11° 8 18'10	-2°38'56	opposition	1947 Jan 26 05:49	5° Ω 26'21	0°35'30
min. Earth dist.	1940 Nov 03 18:59		8.21789 AU	min. Earth dist.	1947 Jan 26 01:31	5°Ω27'14	8.11767 AU
direct	1941 Jan 09 12:20	7° 8 53'38	0.21707110	direct	1947 Apr 03 19:38	1°Ω56'58	0.11,0,110
	1941 Apr 15 05:48	15° 8		evening set	1947 Jul 18 15:09	10° Ω 07'34	
evening set	1941 Apr 21 10:12	15° 8 46'17		ovening sec	1917 001 10 10.09	10 00075.	
				conjunction	1947 Aug 05 17:24	12° Ω 26′04	0°44'19
conjunction	1941 May 09 01:11	18° 8 01'23	-2°01'59	minimum elong	1947 Aug 05 17:22	12° Ω 26′03	0°44'20
minimum elong	1941 May 09 01:13	18° 8 01'24		max. Earth dist.	1947 Aug 05 22:37	12° Ω 27'44	10.15075 AU
max. Earth dist.	1941 May 09 03:00	18° 8 01'58	10.17616 AU	morning rise	1947 Aug 23 16:55	14° Ω 43'42	
morning rise	1941 May 26 20:17	20° 8 17'48			1947 Aug 25 20:56	15° Ω	
retrograde	1941 Sep 10 17:39	28° 8 32'59		retrograde	1947 Dec 04 11:34	22° Ω 40'35	
opposition	1941 Nov 17 19:19	25° 8 03'44	-2°22'06	opposition	1948 Feb 09 02:13	19° Ω 14'42	1°13'28
min. Earth dist.	1941 Nov 17 17:24	25° 8 04'08	8.14126 AU	min. Earth dist.	1948 Feb 08 22:35	19° Ω 15′26	8.18887 AU
direct	1942 Jan 23 07:01	21° 8 38'01		direct	1948 Apr 17 03:19	15° Ω 45'21	
evening set	1942 May 05 21:26	29° 8 37'42		evening set	1948 Aug 01 07:08	23° Ω 52′23	
	1942 May 08 19:39	$\Pi^{\circ}0$					
				conjunction	1948 Aug 19 05:56	26° Ω 08'39	1°13'12
conjunction	1942 May 23 17:03	1° Ⅱ 55'08	-1°44'44	minimum elong	1948 Aug 19 05:53	26° Ω 08'38	1°13'12
minimum elong	1942 May 23 17:06	1° Ⅱ 55'09	1°44'44	max. Earth dist.	1948 Aug 19 10:05	26° Ω 09'59	10.23141 AU
max. Earth dist.	1942 May 23 19:14		10.10903 AU	morning rise	1948 Sep 06 01:12	28° Ω 23'48	
morning rise	1942 Jun 10 16:08	4° Ⅱ 13'40			1948 Sep 19 04:35	0° т р	
retrograde	1942 Sep 25 05:38	12° ∏ 31′24		retrograde	1948 Dec 17 00:20	6° Mp 12′19	
opposition	1942 Dec 01 20:43	9° Ⅱ 02'01		opposition	1949 Feb 21 18:01	2° m 47'41	1°46'32
min. Earth dist.	1942 Dec 01 18:32	9° Ⅱ 02'28	8.08442 AU	min. Earth dist.	1949 Feb 21 15:14	2°m/48'15	8.27819 AU
direct	1943 Feb 06 07:52	5° Ⅱ 35'11			1949 Apr 03 03:41	30°R Ω	
evening set	1943 May 20 15:36	13° Ⅱ 40'41		direct	1949 May 01 08:34	29° Ω 18'42	
					1949 May 29 12:57	0° т р	
conjunction	1943 Jun 07 15:23	15° Ⅱ 59'59		evening set	1949 Aug 15 15:03	7° ™ 20'35	
minimum elong	1943 Jun 07 15:27	16° I I00'00	1°21'06		1040 0 00 00 00	0070.24111	1027122
max. Earth dist.	1943 Jun 07 18:33		10.06434 AU	conjunction	1949 Sep 02 09:28	9° Mp 34'11	1°37'32
morning rise	1943 Jun 25 17:38	18° Ⅲ 20'04 26° Ⅲ 37'54		minimum elong	1949 Sep 02 09:25	9° Mp 34'10	1°37'33
retrograde	1943 Oct 09 18:17	20° II 37'34 23° II 08'40	1922151	max. Earth dist.	1949 Sep 02 12:22	9°11/33'03 11°11/46'28	10.32749 AU
opposition min. Earth dist.	1943 Dec 15 23:52 1943 Dec 15 20:59	23° I I08'40	8.05211 AU	morning rise retrograde	1949 Sep 19 23:49 1949 Dec 30 04:04	11 11/46 28 19° Mp 26'26	
direct	1944 Feb 20 13:18	19° ∏ 40′50	8.03211 AU	opposition	1950 Mar 07 04:49	16° Mb 03'05	2°13'06
evening set	1944 Jun 03 14:44	27° I I50'34		min. Earth dist.	1950 Mar 07 04:49	16° Mp 03'34	8.38030 AU
evening set	1944 Jun 20 07:47	27 H 30 34		direct	1950 May 15 09:23	10 m/03 34 12° m/34'46	6.36030 AC
	1744 Juli 20 07.47	0 3		evening set	1950 Aug 29 13:18	20° m 30'12	
conjunction	1944 Jun 21 17:39	0°ឡ11'01	-0°52'25	evening set	1930 Aug 29 13.10	20 11/2012	
minimum elong	1944 Jun 21 17:42	0°911'02		conjunction	1950 Sep 16 02:58	22° m 40'55	1°56'15
max. Earth dist.	1944 Jun 21 21:52		10.04574 AU	minimum elong	1950 Sep 16 02:55	22° m/40'54	1°56'15
morning rise	1944 Jul 09 21:44	2°931'50		max. Earth dist.	1950 Sep 16 05:01		10.43349 AU
retrograde	1944 Oct 23 05:37	10°947'18		morning rise	1950 Oct 03 12:12	24° m 50'16	
opposition	1944 Dec 29 03:25	7°©18'31	-0°45'50	C	1950 Nov 20 15:49	0° ٽ	
min. Earth dist.	1944 Dec 28 23:40	7° 5 19'17	8.04688 AU	retrograde	1951 Jan 12 01:18	2° £ 21'54	
direct	1945 Mar 05 22:43	3° 5 49'54			1951 Mar 07 12:14	30°R Mp	
evening set	1945 Jun 18 16:20	12° ഇ 01'58		opposition	1951 Mar 20 10:11	28° m 59'48	2°32'09
				min. Earth dist.	1951 Mar 20 07:53	29° Mp 00'15	8.48942 AU
conjunction	1945 Jul 06 20:47	14° 5 22'40	-0°20'33	direct	1951 May 29 03:37	25° Mp 32'24	
minimum elong	1945 Jul 06 20:48	14° 9 522'40	0°20'33		1951 Aug 13 16:43	0。 ত	
max. Earth dist.	1945 Jul 07 01:57	14° 5 24'20	10.05463 AU	evening set	1951 Sep 12 01:35	3° £ 20'35	
morning rise	1945 Jul 25 00:57	16°ණ43'18					
retrograde	1945 Nov 06 13:02	24°954'10		conjunction	1951 Sep 29 10:33	5° ഫ 28'28	2°08'43
opposition	1946 Jan 12 05:49	21° 5 26'07		minimum elong	1951 Sep 29 10:31	5° ≏ 28'27	2°08'43
min. Earth dist.	1946 Jan 12 01:24	21°527'02	8.06922 AU	max. Earth dist.	1951 Sep 29 12:17	5° £ 29'00	10.54372 AU
asc. node	1946 Feb 28 12:37	18°5518'41		morning rise	1951 Oct 16 14:48	7° Ω 34'55	
direct	1946 Mar 20 09:29	17°956'59		retrograde	1952 Jan 24 17:55	14° £ 58'43	20.4211.7
evening set	1946 Jul 03 17:26	26°509'20		opposition	1952 Apr 01 10:11	11° £ 37'50	
	1046 1-1 21 21 22	200520122	001227	min. Earth dist.	1952 Apr 01 08:32	11° £ 38'09	8.59993 AU
conjunction	1946 Jul 21 21:39	28°529'22	0°12'27	direct	1952 Jun 10 13:19	8° £ 11'33	
minimum elong	1946 Jul 21 21:38	28°529'21	0°12'28	evening set	1952 Sep 24 03:43	15° ≏ 52'04	
behind sun begin	1946 Jul 21 16:59	28°527'52		conjunction	1052 Oat 11 00:17	170 0 57110	2014147
behind sun end max. Earth dist.	1946 Jul 22 02:18 1946 Jul 22 03:16	28°530'51	10.09046 AU	minimum elong	1952 Oct 11 08:17 1952 Oct 11 08:16	17° £ 57'18 17° £ 57'18	2°14'47 2°14'46
max. Darui Uist.	1770 Jul 22 03.10	10 الرحد 10	10.07040 AU	minimum ciong	1752 001 11 00.10	1/ ==3/10	2 1740

max. Earth dist.	1952 Oct 11 09:25	17° £ 57'39	10.65276 AU	max. Earth dist.	1958 Dec 20 07:45	28° ∡ 705'42	11.04794 AU
morning rise	1952 Oct 28 08:07	20° ⊆ 01'10	10.03270110	max. Bartii dist.	1959 Jan 05 13:32	0°중	11.01/71/10
retrograde	1953 Feb 05 02:31	27° Ω 17'55		morning rise	1959 Jan 06 02:47	。 0° ろ 03'50	
opposition	1953 Apr 14 05:25	23° Ω 58'09	2°46'31	retrograde	1959 Apr 16 15:32	7° る 03'52	
min. Earth dist.	1953 Apr 14 05:00	23° £ 58'13	8.70663 AU	opposition	1959 Jun 26 02:46	3°₹46'19	0°55'34
direct	1953 Jun 23 17:26	20° £ 33'06		min. Earth dist.	1959 Jun 26 06:49	3° ප 45'34	9.04994 AU
evening set	1953 Oct 06 20:00	28° Ω 05'55		direct	1959 Sep 05 01:01	0° る 27'30	
Z .	1953 Oct 22 15:35	0°M		evening set	1959 Dec 15 05:45	7° る 29'27	
	1052 0 . 22 20 20	00,000	201.4122		1050 5 21 20 51	0070405	0000105
conjunction	1953 Oct 23 20:38	0°M08'48		conjunction	1959 Dec 31 20:51	9°る26'27	
minimum elong	1953 Oct 23 20:39	0°M08'48	2°14'32	minimum elong	1959 Dec 31 20:52	9° る 26'27	0°32'37
max. Earth dist.	1953 Oct 23 20:27		10.75567 AU	max. Earth dist.	1959 Dec 31 16:07		11.04583 AU
morning rise	1953 Nov 09 16:59	2°M10'26		morning rise	1960 Jan 17 11:51 1960 Apr 27 14:06	11°る23'27 18°る25'45	
retrograde opposition	1954 Feb 17 06:16 1954 Apr 26 20:07	9°M21'11 6°M02'22	2°42'16	retrograde opposition	1960 Apr 27 14.06 1960 Jul 07 06:25	18 3 23 43	0°23'41
min. Earth dist.	1954 Apr 26 21:03	6°M02'11	8.80483 AU	min. Earth dist.	1960 Jul 07 00:23	15° る 06'57	9.03631 AU
direct	1954 Jul 06 15:53	2°M38'35	6.60463 AU	direct	1960 Sep 15 22:48	13 3 0037	9.03031 AU
evening set	1954 Oct 19 03:37	10°M04'03		evening set	1960 Dec 25 14:51	11 84914 18° る 50'18	
evening set	1934 Oct 19 03.37	10 1160403		evening set	1900 Dec 23 14.31	18 03018	
conjunction	1954 Nov 05 01:02	12°M04'57	2°08'25	conjunction	1961 Jan 11 06:10	20° ප් 47'39	0°06'03
minimum elong	1954 Nov 05 01:03	12°M04'57	2°08'25	minimum elong	1961 Jan 11 06:10	20° る 47'39	0°06'03
max. Earth dist.	1954 Nov 04 23:08	12°M04'23	10.84805 AU	behind sun begin	1961 Jan 10 23:31	20° る 45'42	
morning rise	1954 Nov 21 18:49	14°M04'46		behind sun end	1961 Jan 11 12:48	20° る 49'35	
	1954 Nov 29 17:03	15°M		max. Earth dist.	1961 Jan 11 01:46		11.02101 AU
retrograde	1955 Mar 01 06:19	21°M10'38		morning rise	1961 Jan 27 22:00	22° る 45'14	
opposition	1955 May 09 06:40	17°M52'34	2°31'10	desc. node	1961 Apr 04 18:56	28° る 52'44	
min. Earth dist.	1955 May 09 08:10	17°M52'17	8.89035 AU	retrograde	1961 May 09 16:21	29° る 51'19	
	1955 Jun 24 05:47	15°RM		opposition	1961 Jul 19 11:24	26° る 32'24	
direct	1955 Jul 19 07:29	14°M30'03		min. Earth dist.	1961 Jul 19 15:12		9.00006 AU
	1955 Aug 13 04:21	15° ™		direct	1961 Sep 27 19:31	23° る 14'10	
evening set	1955 Oct 31 03:38	21°M48'46			1962 Jan 03 19:01	0° ≈	
	105531 16 22 40	220 m 4010.6	1056150	evening set	1962 Jan 06 01:55	0°≈15'55	
conjunction	1955 Nov 16 22:40	23°M48'06	1°56'59		10/2 1 22 17 20	20: 12150	0021102
minimum elong	1955 Nov 16 22:42		1°56'59	conjunction	1962 Jan 22 17:39	2°≈13'59	
max. Earth dist.	1955 Nov 16 20:14		10.92610 AU	minimum elong max. Earth dist.	1962 Jan 22 17:38 1962 Jan 22 12:25	2°≈13'59	
morning rise	1955 Dec 03 14:33	25°M46'32					10.97378 AU
	1956 Jan 12 18:45	0° 🗷 2° ⋅ 7 49/50		morning rise	1962 Feb 08 10:49	4°≈12'31	
retrograde	1956 Mar 12 03:29	2° ∡ 748'50		retrograde	1962 May 21 23:22	11°≈23'53	0942115
opposition	1956 May 14 03:46 1956 May 20 14:16	30°Rጤ 29°ጤ31'17	2014/02	opposition min. Earth dist.	1962 Jul 31 18:49 1962 Jul 31 23:14	8°≈04'00 8°≈03'11	-0 42 13 8.94221 AU
min. Earth dist.	1956 May 20 15:52	29°M30'59	8.95980 AU	direct	1962 Oct 09 16:25	6 ≈03 11 4°≈45'40	6.94221 AU
direct	1956 Jul 30 18:36	26°M09'57	6.93960 AU	evening set	1963 Jan 17 16:36	11°≈49'42	
direct	1956 Oct 10 15:10	20 11€0937 0° √ 1		evening set	1903 Jan 17 10.30	11 2049 42	
evening set	1956 Nov 10 21:22	3° ∡ 22'43		conjunction	1963 Feb 03 09:03	13° ≈ 48'48	-0°47'31
evening set	1730 1107 10 21.22	3 × 22 43		minimum elong	1963 Feb 03 09:01	13° ≈ 48'47	
conjunction	1956 Nov 27 14:43	5° х 20'54	1°40'54	max. Earth dist.	1963 Feb 03 02:59		10.90602 AU
minimum elong	1956 Nov 27 14:45	5° ₹ 20'55		man. Bartir dist.	1963 Feb 13 07:19	15° ≈	10.90002110
max. Earth dist.	1956 Nov 27 12:25		10.98677 AU	morning rise	1963 Feb 20 03:55	15° ≈ 48'37	
morning rise	1956 Dec 14 05:23	7° ∡ 18'22		retrograde	1963 Jun 03 09:39	23° ≈ 06'39	
retrograde	1957 Mar 24 00:45	14° ∡ °18'30		opposition	1963 Aug 13 05:32	19° ≈ 45'34	-1°13'59
opposition	1957 Jun 01 19:40	11° ₹ 01'12	1°51'45	min. Earth dist.	1963 Aug 13 10:17		8.86544 AU
min. Earth dist.	1957 Jun 01 21:50	11° ∡ 00'48	9.01065 AU	direct	1963 Oct 21 16:22	16° ≈ 26'52	
direct	1957 Aug 11 23:57	7° ∡ ¹40'55		evening set	1964 Jan 29 12:16	23° ≈ 34'39	
evening set	1957 Nov 22 10:40	14° ∤ 748'48					
				conjunction	1964 Feb 15 06:00	25° ≈ 35'07	
conjunction	1957 Dec 09 02:46	16° ⊀ 46′13	1°20'56	minimum elong	1964 Feb 15 05:58	25° ≈ 35′06	1°12'22
minimum elong	1957 Dec 09 02:49	16° ∡ °46′14	1°20'56	max. Earth dist.	1964 Feb 15 00:40	25° ≈ 33'30	10.82097 AU
max. Earth dist.	1957 Dec 08 23:35		11.02789 AU	morning rise	1964 Mar 03 02:48	27° ≈ 36'31	
morning rise	1957 Dec 25 17:02	18° ∡ ′43′09			1964 Mar 24 04:17	0° ∀	
retrograde	1958 Apr 04 19:38	25° ₹ 42'29		retrograde	1964 Jun 15 03:26	5°) €02'21	
opposition	1958 Jun 13 23:27	22° ₹ 25'12		opposition	1964 Aug 24 20:18	1°) (39′52	
min. Earth dist.	1958 Jun 14 02:53	22° ₹ 24'34	9.04113 AU	min. Earth dist.	1964 Aug 25 00:13		8.77332 AU
direct	1958 Aug 24 00:31	19° ₹ 05'45			1964 Sep 16 21:04	30°R≈	
evening set	1958 Dec 03 20:58	26° ₰ 10'01		direct	1964 Nov 01 20:44	28°≈20'35	
	1050 D 20 12 15	200 30505	0057153		1964 Dec 16 05:38	0°) {	
conjunction	1958 Dec 20 12:17		0°57'53	evening set	1965 Feb 09 14:16	5° ∺ 33'21	
minimum elong	1958 Dec 20 12:19	28° ₹ 07'03	0°57'53				

conjunction	1965 Feb 26 09:49	7° ∺ 35'32	-1°34'31		1971 Jun 18 16:08	$\Pi^{\circ}0$	
minimum elong	1965 Feb 26 09:47	7° ∺ 35'31	1°34'31	retrograde	1971 Sep 19 02:17	6° Ⅱ 31'43	
max. Earth dist.	1965 Feb 26 05:54	7°) 34′20	10.72231 AU	opposition	1971 Nov 25 23:05	3° Ⅱ 01'40	-2°09'10
morning rise	1965 Mar 15 08:51	9°) 38'49		min. Earth dist.	1971 Nov 25 19:44	3° Ⅲ 02'21	8.08795 AU
retrograde	1965 Jun 28 05:32	17° ₩ 13'16			1972 Jan 10 03:44	30°R₩	
opposition	1965 Sep 06 15:39	13° ¥ 49'18	-2°08'29	direct	1972 Jan 31 10:22	29° 8 34'44	
min. Earth dist.	1965 Sep 06 18:18	13° ¥ 48'48	8.66975 AU		1972 Feb 21 14:51	0° I I	
direct	1965 Nov 14 03:17	10°) 29'14		evening set	1972 May 13 09:42	7° Ⅱ 38'30	
evening set	1966 Feb 22 00:07	17°) (48'12		evening see	15,72 11tay 15 05.12	, 23030	
evening sec	1900100 22 00.07	17 70 10 12		conjunction	1972 May 31 07:55	9° ∏ 57'18	-1°32'27
conjunction	1966 Mar 10 21:51	19° ¥ 52'21	105251	minimum elong	1972 May 31 07:58	9° П 57'19	
minimum elong	1966 Mar 10 21:49	19° X 52'20		max. Earth dist.	1972 May 31 07:38		10.06317 AU
max. Earth dist.			10.61433 AU		1972 May 31 12.22 1972 Jun 18 08:51	12° ∏ 17′00	10.00317 AU
	1966 Mar 10 18:47		10.01433 AU	morning rise			
morning rise	1966 Mar 27 23:35	21°) 57'47		retrograde	1972 Oct 02 16:26	20° Ⅱ 35'54	1020124
retrograde	1966 Jul 11 13:02	29°) (41'17	2020127	opposition	1972 Dec 09 01:52	17° Ⅱ 05'55	
opposition	1966 Sep 19 16:02	26° ¥ 15'51		min. Earth dist.	1972 Dec 08 22:01		8.04649 AU
min. Earth dist.	1966 Sep 19 17:44		8.55924 AU	direct	1973 Feb 13 12:49	13° ∏ 37'59	
direct	1966 Nov 26 15:34	22°) 54'48		evening set	1973 May 28 07:16	21° Ⅱ 46'40	
	1967 Mar 03 21:31	$\mathbf{\gamma}_{0}$					
evening set	1967 Mar 06 18:33	0° Y 20′58		conjunction	1973 Jun 15 09:00	24° Ⅱ 06'56	-1°05'47
				minimum elong	1973 Jun 15 09:03	24° Ⅱ 06'56	1°05'47
conjunction	1967 Mar 23 19:01	2° Y 27'22	-2°06'13	max. Earth dist.	1973 Jun 15 13:55	24° Ⅲ 08'31	10.03524 AU
minimum elong	1967 Mar 23 19:00	2° Y 27'21	2°06'13	morning rise	1973 Jul 03 12:27	26° Ⅲ 27'44	
max. Earth dist.	1967 Mar 23 16:17	2° Y 26'30	10.50195 AU		1973 Aug 01 22:20	0°€	
morning rise	1967 Apr 10 00:05	4° Υ 35'12		retrograde	1973 Oct 17 05:50	4° © 45'13	
retrograde	1967 Jul 25 04:08	12° Ƴ 27'45		opposition	1973 Dec 23 05:51	1° © 15'42	-1°03'22
opposition	1967 Oct 02 22:03	9° Υ '00'56	-2°41'45	min. Earth dist.	1973 Dec 23 01:47		8.03186 AU
min. Earth dist.	1967 Oct 02 23:17	9° Υ '00'42		mm. Earth dist.	1974 Jan 07 20:27	30°R∏	0.03100710
direct	1967 Dec 09 10:27	5° Υ 38'47	0.44071 AU	direct	1974 Feb 27 21:13	27° ∏ 47'00	
	1968 Mar 18 22:07	13° Υ 12'44		direct		0°95	
evening set	1908 Mai 18 22.07	13 1244			1974 Apr 18 22:33		
	1000 4 05 02 00	1.50002.112.0	2012127	evening set	1974 Jun 12 08:17	5° © 58'49	
conjunction	1968 Apr 05 02:08	15° Y 21'38			10741 20 10 11	00610142	0025104
minimum elong	1968 Apr 05 02:08	15° Y 21'38		conjunction	1974 Jun 30 12:11	8°519'42	
max. Earth dist.	1968 Apr 05 00:28		10.39050 AU	minimum elong	1974 Jun 30 12:13	8° © 19'42	
morning rise	1968 Apr 22 11:00	17° Ƴ 32'03		max. Earth dist.	1974 Jun 30 17:25		10.03493 AU
retrograde	1968 Aug 07 02:23	25° Ƴ 33'09		morning rise	1974 Jul 18 16:38	10°5940'43	
opposition	1968 Oct 15 09:25	22° Y 05′06		retrograde	1974 Oct 31 14:56	18° © 54'30	
min. Earth dist.	1968 Oct 15 10:01	22° Y ′04'59	8.33814 AU	opposition	1975 Jan 06 09:25	15° © 25'47	-0°23'28
direct	1968 Dec 21 11:38	18° Ƴ 41'44		min. Earth dist.	1975 Jan 06 05:12	15° 5 26'39	8.04528 AU
evening set	1969 Apr 01 11:30	26° Y 23′50		direct	1975 Mar 14 08:32	11° © 56'36	
				evening set	1975 Jun 27 10:19	20° © 09'36	
conjunction	1969 Apr 18 19:48	28° Y 35'23	-2°14'12				
minimum elong	1969 Apr 18 19:48	28° Y '35'23	2°14'12	conjunction	1975 Jul 15 14:46	22° © 30'10	-0°02'20
max. Earth dist.	1969 Apr 18 19:46	28° Ƴ 35′22	10.28543 AU	minimum elong	1975 Jul 15 14:46	22°530'10	0°02'20
	1969 Apr 29 22:23	0°B		behind sun begin	1975 Jul 15 07:25	22°527'48	
morning rise	1969 May 06 08:46	0° 8 48'25		behind sun end	1975 Jul 15 22:08	22°532'32	
retrograde	1969 Aug 21 05:43	8° 8 56'54		max. Earth dist.	1975 Jul 15 20:10	22° © 31'53	10.06244 AU
opposition	1969 Oct 29 01:42	5° 8 27'53	-2°43'39	morning rise	1975 Aug 02 18:31	24°950'28	10.00211110
min. Earth dist.	1969 Oct 29 01:09		8.23844 AU	asc. node	1975 Aug 10 15:41	25°5049'50	
direct	1970 Jan 03 21:07	2° 8 03'16	0.23044710	use. Hode	1975 Sep 17 04:56	0°Ω	
evening set	1970 Jan 03 21:07 1970 Apr 15 10:25	9° 8 53'22		retrograde	1975 Nov 14 19:25	2° Ω 58'33	
evening set	1970 Apr 13 10.23	9 033 22		retrograde			
	1070 M 02 22 25	120007125	2007/20	• • •	1976 Jan 14 13:17	30°₹©	0017126
conjunction	1970 May 02 23:25	12° 8 07'35		opposition	1976 Jan 20 11:00	29°530'56	
minimum elong	1970 May 02 23:27	12° 8 07'35		min. Earth dist.	1976 Jan 20 06:31	29° © 31'52	8.08602 AU
max. Earth dist.	1970 May 03 01:20		10.19237 AU	direct	1976 Mar 27 19:58	26° © 01'34	
morning rise	1970 May 20 16:37	14° 8 23'10			1976 Jun 05 05:08	$0^{\circ}\Omega$	
	1970 May 25 14:35	15° 8		evening set	1976 Jul 11 10:30	4° Ω 13'42	
retrograde	1970 Sep 04 13:57	22° 8 37'23					
opposition	1970 Nov 11 22:34	19° 8 07'40	-2°30'55	conjunction	1976 Jul 29 13:49	6° Ω 33'05	
min. Earth dist.	1970 Nov 11 20:30	19° 8 08'06	8.15334 AU	minimum elong	1976 Jul 29 13:47	6° Ω 33'05	0°30'25
direct	1971 Jan 17 13:01	15° 8 41'52		max. Earth dist.	1976 Jul 29 19:25	6° Ω 34'53	10.11598 AU
evening set	1971 Apr 29 18:05	23° 8 39'18		morning rise	1976 Aug 16 15:05	8° Ω 51'47	
-	•			-	1976 Oct 12 22:32	15° Ω	
conjunction	1971 May 17 11:53	25° 8 56'01	-1°53'23	retrograde	1976 Nov 27 18:46	16° Ω 52'42	
minimum elong	1971 May 17 11:56	25° 8 56'02			1977 Jan 13 13:46	15°R Ω	
max. Earth dist.	1971 May 17 11:30		10.11672 AU	opposition	1977 Feb 02 09:36	13° Ω 26'20	0°57'06
morning rise	1971 Jun 04 09:14	28° 8 13'54	10.110/2 AU	min. Earth dist.	1977 Feb 02 04:42	$13^{\circ} \Omega 2020$	8.15140 AU
morning 1150	17/1 Jun 04 07.14	20 013 34		mm. Bartii uist.	17//100 02 04.42	15 062/20	0.13140 AU

min. Earth dist. direct	1989 Jul 02 17:26 1989 Sep 11 07:10	10°පි36'27 7°පි18'05	9.02116 AU	morning rise retrograde	1995 Mar 23 02:12 1995 Jul 06 07:46	17° 米 05'15 24° 米 45'07	
evening set	1989 Dec 21 05:49	14° る 20'14		opposition min. Earth dist.	1995 Sep 14 15:19 1995 Sep 14 17:02	21° \(\) 20'18	-2°20'53 8.60387 AU
conjunction	1990 Jan 06 21:02	16° ට 17'39	0°17'14	direct	1995 Nov 21 19:48	17°) 59'43	0.00307710
minimum elong	1990 Jan 06 21:03	16° る 17'39	0°17'14	evening set	1996 Feb 29 19:47	25° ¥ 22'56	
max. Earth dist.	1990 Jan 06 15:26		11.01003 AU			>/	
morning rise	1990 Jan 23 12:42	18°る15'14		conjunction minimum elong	1996 Mar 17 19:04	27° 	
retrograde opposition	1990 May 04 22:43 1990 Jul 14 17:44	25°る20'20 22°る01'12	0°04'32	minimum elong max. Earth dist.	1996 Mar 17 19:02 1996 Mar 17 17:59		2°01′18 10.54999 AU
min. Earth dist.	1990 Jul 14 17:44 1990 Jul 14 22:27	22°る01'12	8.99385 AU	morning rise	1996 Apr 03 22:38	29° H 35'10	10.34999 AU
desc. node	1990 Sep 04 05:12	18° る 59'49	0.55500 110	morning not	1996 Apr 07 08:49	0°Υ	
direct	1990 Sep 23 05:10	18° ප් 42'15		retrograde	1996 Jul 18 20:29	7° Y 24'02	
evening set	1991 Jan 01 16:10	25° る 44'28		opposition	1996 Sep 26 19:11	3° Y 57'58	-2°37'02
		_		min. Earth dist.	1996 Sep 26 19:27	3° Y 57'54	8.49762 AU
conjunction	1991 Jan 18 07:45	27°₹42'26		direct	1996 Dec 03 12:39	0° Υ 36'32	
minimum elong behind sun begin	1991 Jan 18 07:44 1991 Jan 18 02:00	27°る42'26 27°る40'45	0°09'50	evening set	1997 Mar 13 19:46	8° Ƴ 07'08	
behind sun end	1991 Jan 18 13:28	27°る40'43		conjunction	1997 Mar 30 22:20	10° Ƴ 14'56	-2°11'14
max. Earth dist.	1991 Jan 18 02:31		10.97273 AU	minimum elong	1997 Mar 30 22:19	10°Υ14'55	
morning rise	1991 Feb 04 00:32	29° ⋜ 40'47		max. Earth dist.	1997 Mar 30 22:49		10.44330 AU
	1991 Feb 06 18:51	0° ≈		morning rise	1997 Apr 17 05:21	12° Y 24'10	
retrograde	1991 May 17 04:05	6° ≈ 50'32		retrograde	1997 Aug 01 16:57	20° Y 21'39	
opposition	1991 Jul 27 00:21	3°≈30′28		opposition	1997 Oct 10 04:26	16° Y 54'27	
min. Earth dist.	1991 Jul 27 04:19	3°≈29'44	8.94665 AU	min. Earth dist.	1997 Oct 10 03:19	16° Υ 54'40	8.39240 AU
direct evening set	1991 Oct 05 03:57 1992 Jan 13 05:14	0°≈11'35 7°≈15'16		direct evening set	1997 Dec 16 10:29 1998 Mar 27 05:20	13° Υ 32'03 21° Υ 10'28	
evening set	1992 Jan 13 03.14	/ 2015 10		evening set	1998 Widi 27 03.20	21 11026	
conjunction	1992 Jan 29 21:33	9° ≈ 14'08	-0°36'40	conjunction	1998 Apr 13 11:41	23° Y 20'46	-2°14'40
minimum elong	1992 Jan 29 21:31	9° ≈ 14'07	0°36'39	minimum elong	1998 Apr 13 11:41	23° Y 20'46	
max. Earth dist.	1992 Jan 29 17:25		10.91612 AU	max. Earth dist.	1998 Apr 13 12:56		10.34038 AU
morning rise	1992 Feb 15 15:39	11°≈13'35		morning rise	1998 Apr 30 22:38	25° Y 32'33	
retrograde	1992 Mar 21 16:50 1992 May 28 13:35	15° ≈ 18° ≈ 29'20		retrograde	1998 Jun 09 06:07 1998 Aug 15 19:09	0° と 3° と 37'42	
opposition	1992 Aug 07 09:53	15°≈08'12	-1°01'04	opposition	1998 Oct 23 18:49	0° 8 09'34	-2°45'55
min. Earth dist.	1992 Aug 07 12:50	15° ≈ 07'39	8.88120 AU	min. Earth dist.	1998 Oct 23 17:03	0° 8 09'55	8.29344 AU
	1992 Aug 09 05:43	15° R ≈			1998 Oct 25 18:41	30° ₹Ƴ	
direct	1992 Oct 16 02:06	11° ≈ 49′12		direct	1998 Dec 29 15:45	26° Y 46'04	
	1992 Dec 18 09:54	15° ≈			1999 Mar 01 01:26	0° 8	
evening set	1993 Jan 23 22:52	18°≈55'50		evening set	1999 Apr 10 00:21	4° 8 32'18	
conjunction	1993 Feb 09 16:10	20°≈55'52	-1°02'20	conjunction	1999 Apr 27 11:04	6° 8 45'11	-2°10'58
minimum elong	1993 Feb 09 16:08	20°≈55'51		minimum elong	1999 Apr 27 11:05	6° 8 45'12	
max. Earth dist.	1993 Feb 09 12:26	20° ≈ 54'44	10.84228 AU	max. Earth dist.	1999 Apr 27 12:50	6° 8 45'45	10.24647 AU
morning rise	1993 Feb 26 12:04	22° ≈ 56'44		morning rise	1999 May 15 02:21	8° 8 59'30	
	1993 May 21 04:58	0° ∀		_	1999 Jul 10 00:42	15° 8	
retrograde	1993 Jun 10 05:28	0°) 19'40		retrograde	1999 Aug 30 01:23	17° 8 10'51	
opposition	1993 Jun 30 08:29 1993 Aug 19 23:01	30°R≈ 26°≈57'21	-1°31'30	opposition	1999 Oct 21 01:43 1999 Nov 06 13:53	15°R と 13° と 42'00	-2°37'00
min. Earth dist.	1993 Aug 20 01:36		8.79998 AU	min. Earth dist.	1999 Nov 06 11:53	_	8.20572 AU
direct	1993 Oct 28 03:40	23° ≈ 38'00		direct	2000 Jan 12 04:59	10° 8 17'18	
	1994 Jan 28 23:43	0°) €			2000 Mar 27 13:22	15° 8	
evening set	1994 Feb 04 22:24	0°) 49′00		evening set	2000 Apr 23 04:16	18° 8 10'57	
conjunction	1994 Feb 21 17:03	2°) 50′32	-1°25'45	conjunction	2000 May 10 19:45	20° 8 26'22	-1°50'54
minimum elong	1994 Feb 21 17:00	2° ∺ 50'31		minimum elong	2000 May 10 19:48 2000 May 10 19:48	20° 8 26'23	
max. Earth dist.	1994 Feb 21 13:07		10.75413 AU	max. Earth dist.	2000 May 10 19:48 2000 May 10 21:56		10.16612 AU
morning rise	1994 Mar 10 15:11	4°) 53′08		morning rise	2000 May 28 15:24	22° 8 43'04	
retrograde	1994 Jun 23 03:57	12°) 24′11		-	2000 Aug 10 02:26	$\Pi^{\circ}0$	
opposition	1994 Sep 01 16:40	9° ₩ 00'39		retrograde	2000 Sep 12 11:34	0° Ⅱ 58'43	
min. Earth dist.	1994 Sep 01 19:13	9°) €00'09	8.70621 AU		2000 Oct 16 00:45	30°R₩	
direct	1994 Nov 09 08:36	5°) (40'45		opposition	2000 Nov 19 12:41	27° 8 29'26	
evening set	1995 Feb 17 04:56	12° ¥ 57′21		min. Earth dist.	2000 Nov 19 10:39		8.13335 AU
conjunction	1995 Mar 06 01:32	15° ₩ 00'41	-1°45'46	direct	2001 Jan 25 00:24 2001 Apr 20 21:59	24° ႘ 03'34 0° 川	
minimum elong	1995 Mar 06 01:30	15° X 00'41		evening set	2001 Apr 20 21:39 2001 May 07 16:22	2° I I03'57	
max. Earth dist.	1995 Mar 05 22:36		10.65523 AU			_35.57	

agniumation	2001 May 25, 12-22	4° Ⅱ 21'38	1941!42		2007 Cap 02 12:49	0° m)	
conjunction	2001 May 25 12:33				2007 Sep 02 13:48	-•	
minimum elong	2001 May 25 12:37	4° Ⅱ 21'39		morning rise	2007 Sep 08 18:17	0° Mp 46'33	
max. Earth dist.	2001 May 25 15:29		10.10326 AU	retrograde	2007 Dec 19 14:09	8° Mp 34'04	1050124
morning rise	2001 Jun 12 12:03	6° Ⅱ 40'22		opposition	2008 Feb 24 09:48	5° m 09'38	1°50'34
retrograde	2001 Sep 27 00:05	14° ∏ 58'11		min. Earth dist.	2008 Feb 24 06:49	5° m 10'14	8.29140 AU
opposition	2001 Dec 03 14:13	11° Ⅱ 28'48		direct	2008 May 03 03:07	1° m 40'48	
min. Earth dist.	2001 Dec 03 11:35	11° Ⅱ 29'21	8.08060 AU	evening set	2008 Aug 17 08:04	9° ™ 41'53	
direct	2002 Feb 08 01:32	8° Ⅱ 01'53					
evening set	2002 May 22 11:07	16° Ⅱ 07'52		conjunction	2008 Sep 04 02:00	11° m 55'07	1°40'25
				minimum elong	2008 Sep 04 01:56	11° m 55'06	1°40'25
conjunction	2002 Jun 09 11:24	18° Ⅲ 27'19	-1°17'18	max. Earth dist.	2008 Sep 04 04:55	11° m 56'03	10.34125 AU
minimum elong	2002 Jun 09 11:27	18° Ⅲ 27′20	1°17'18	morning rise	2008 Sep 21 15:47	14° m 07'04	
max. Earth dist.	2002 Jun 09 15:29	18° Ⅱ 28'39	10.06242 AU	retrograde	2008 Dec 31 18:08	21°Mp46'01	
morning rise	2002 Jun 27 13:50	20° Ⅱ 47'30		opposition	2009 Mar 08 19:53	18° m 22'51	2°16'07
retrograde	2002 Oct 11 13:01	29° Ⅱ 05'07		min. Earth dist.	2009 Mar 08 16:59	18° m 23'25	8.39445 AU
opposition	2002 Dec 17 17:28	25° Ⅱ 35'57	-1°18'46	direct	2009 May 17 02:06	14° m 54'41	
min. Earth dist.	2002 Dec 17 13:50	25° Ⅱ 36'42	8.05195 AU	evening set	2009 Aug 31 05:10	22° m 49'11	
direct	2003 Feb 22 07:41	22° I 108'07		Č	Č	•	
	2003 Jun 04 01:28	0ංම 		conjunction	2009 Sep 17 18:22	24° m 59'33	1°58'16
evening set	2003 Jun 06 10:27	0°918'05		minimum elong	2009 Sep 17 18:19	24° m 59'32	1°58'17
evening sec	2005 Juli 00 10.27	0 -10 03		max. Earth dist.	2009 Sep 17 10:19 2009 Sep 17 21:03		10.44783 AU
conjunction	2003 Jun 24 13:39	2° © 38'35	0°48'06	morning rise	2009 Sep 17 21:05 2009 Oct 05 02:56	27° m 08'30	10.44703710
•	2003 Jun 24 13:39 2003 Jun 24 13:42		0°48'06	morning rise		0° ∿	
minimum elong max. Earth dist.		2°538'35			2009 Oct 29 17:09		
	2003 Jun 24 18:45		10.04735 AU	retrograde	2010 Jan 13 15:57	4° Ω 39'09	2024104
morning rise	2003 Jul 12 17:43	4°959'23		opposition	2010 Mar 22 00:37	1° Ω 17'12	2°34'04
retrograde	2003 Oct 25 23:42	13°9514'24		min. Earth dist.	2010 Mar 21 22:13	1° Ω 17'40	8.50381 AU
opposition	2003 Dec 31 20:57	9° © 45'45			2010 Apr 07 18:52	30°R, Mp	
min. Earth dist.	2003 Dec 31 16:40	9° © 46'38	8.05013 AU	direct	2010 May 30 18:08	27° m 49'57	
direct	2004 Mar 07 16:51	6° © 17'10			2010 Jul 21 15:10	0∘ ⊽	
evening set	2004 Jun 20 12:07	14° © 29'14		evening set	2010 Sep 13 16:12	5° ≏ 37'05	
conjunction	2004 Jul 08 16:38	16°©49'53		conjunction	2010 Oct 01 00:42	7° ≏ 44'38	2°09'51
minimum elong	2004 Jul 08 16:39	16°©49'53	0°15'59	minimum elong	2010 Oct 01 00:40	7° ≏ 44'38	2°09'51
max. Earth dist.	2004 Jul 08 22:12	16° © 51'41	10.05952 AU	max. Earth dist.	2010 Oct 01 02:50	7° ≏ 45'18	10.55796 AU
morning rise	2004 Jul 26 20:39	19° © 10'24		morning rise	2010 Oct 18 04:22	9° ჲ 50'46	
retrograde	2004 Nov 08 06:54	27° © 20'36		retrograde	2011 Jan 26 06:09	17° ≏ 13'36	
asc. node	2005 Jan 08 17:08	24°©18'39		opposition	2011 Apr 03 23:56	13° ≏ 52'49	2°44'04
opposition	2005 Jan 13 23:06	23° © 52'45	0°00'34	min. Earth dist.	2011 Apr 03 22:51	13° ♀ 53'02	8.61393 AU
min. Earth dist.	2005 Jan 13 18:45	23° © 53'39	8.07562 AU	direct	2011 Jun 13 03:52	10° ≏ 26'39	
direct	2005 Mar 22 02:54	20°523'39		evening set	2011 Sep 26 17:09	18° ≏ 06'07	
evening set	2005 Jul 05 13:01	28° © 35'49		•	•		
Č	2005 Jul 16 12:30	$0^{\circ}\Omega$		conjunction	2011 Oct 13 21:13	20° £ 11′02	2°15'00
				minimum elong	2011 Oct 13 21:12	20° £ 11'02	
conjunction	2005 Jul 23 17:01	0° Ω 55'41	0°16'57	max. Earth dist.	2011 Oct 13 21:48		10.66628 AU
minimum elong	2005 Jul 23 17:00	0°Ω55'41	0°16'58	morning rise	2011 Oct 30 20:41	22° ♀ 14'37	
max. Earth dist.	2005 Jul 23 22:24		10.09830 AU	retrograde	2012 Feb 07 14:04	29° ₽ 30'29	
morning rise	2005 Aug 10 19:19	3°Ω15'00	10.07030710	opposition	2012 Feb 07 14:04 2012 Apr 15 18:26	26° ⊆ 10'47	2°46'14
retrograde	2005 Nov 22 09:01	11° Ω 18'40		min. Earth dist.	2012 Apr 15 18:42	26° ⊆ 10'44	8.71961 AU
opposition	2006 Jan 27 22:48	7° Ω 51'50	0°40'57	direct	2012 Jun 25 08:00	22° Ω 45'49	0.71701710
min. Earth dist.	2006 Jan 27 18:59	7° Ω 52'37	8.12684 AU	uncet	2012 Juli 25 08:00 2012 Oct 05 20:34	0°M	
direct	2006 Apr 05 12:54	4°Ω22'32	6.12064 AU	avanina aat	2012 Oct 03 20:34 2012 Oct 08 08:20	0°IL 0°IL17'37	
	2006 Apr 03 12.34 2006 Jul 20 10:06	12°Ω32'43		evening set	2012 Oct 08 08.20	0 1161/3/	
evening set	2006 Jul 20 10:06	12 663243			2012 0-4 25 00-22	20 m 20114	2012155
	2006 4 07 11 54	1 40 0 50155	00.4010.0	conjunction	2012 Oct 25 08:32	2°M20'14	
conjunction	2006 Aug 07 11:54	14° £ 50'57	0°48'30	minimum elong	2012 Oct 25 08:33	2°M20'14	
minimum elong	2006 Aug 07 11:52	14° Ω 50'57	0°48'30	max. Earth dist.	2012 Oct 25 07:27		10.76788 AU
max. Earth dist.	2006 Aug 07 16:28		10.16111 AU	morning rise	2012 Nov 11 04:40	4° ™ 21'37	
	2006 Aug 08 16:06	15° Ω		retrograde	2013 Feb 18 17:02	11°M31'35	
morning rise	2006 Aug 25 11:02	17° Ω 08'19		opposition	2013 Apr 28 08:27	8° ™ 12'48	2°40'59
retrograde	2006 Dec 06 04:07	25° Ω 04'16		min. Earth dist.	2013 Apr 28 09:22	8°M12'37	8.81619 AU
opposition	2007 Feb 10 18:42	21° Ω 38'35		direct	2013 Jul 08 05:12	4°M49'06	
min. Earth dist.	2007 Feb 10 15:23	21° Ω 39'16	8.20036 AU	evening set	2013 Oct 20 14:50	12°M13'35	
direct	2007 Apr 19 21:24	18° Ω 09'21					
evening set	2007 Aug 04 01:11	26° Ω 15'47		conjunction	2013 Nov 06 12:01	14° M 14'17	2°07'01
				minimum elong	2013 Nov 06 12:02	14°ML14'17	2°07'01
conjunction	2007 Aug 21 23:28	28° Ω 31'43	1°16'49	max. Earth dist.	2013 Nov 06 10:06	14°ML13'42	10.85846 AU
minimum elong	2007 Aug 21 23:25	28° Ω 31'42	1°16'49		2013 Nov 12 20:30	15°M	
max. Earth dist.	2007 Aug 22 03:05	28° Ω 32'52	10.24381 AU	morning rise	2013 Nov 23 05:35	16°M13'55	
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morning rise	2026 Apr 11 14:24	6° Ƴ 51'24		min. Earth dist.	2032 Dec 24 19:04	3°5542'18	8.03160 AU
retrograde	2026 Jul 26 19:56	14° Ƴ 45'00		direct	2033 Mar 01 16:03	0°9512'40	
opposition	2026 Oct 04 12:29	11° Ƴ 18′07	-2°42'49	evening set	2033 Jun 14 03:35	8° 5 24'38	
min. Earth dist.	2026 Oct 04 14:10	11° Ƴ 17'47	8.43425 AU	C			
direct	2026 Dec 10 23:31	7° Ƴ 55'52		conjunction	2033 Jul 02 07:39	10° © 45'30	-0°30'38
evening set	2027 Mar 21 12:49	15° Ƴ 30'51		minimum elong	2033 Jul 02 07:40	10° © 45'30	0°30'38
C				max. Earth dist.	2033 Jul 02 12:50	10° © 47'11	10.03623 AU
conjunction	2027 Apr 07 17:18	17° Ƴ 40'03	-2°13'59	morning rise	2033 Jul 20 12:08	13° © 06'28	
minimum elong	2027 Apr 07 17:18	17° Ƴ 40'03		retrograde	2033 Nov 02 07:04	21° © 19'39	
max. Earth dist.	2027 Apr 07 16:09	17° Ƴ 39'41	10.37798 AU	opposition	2034 Jan 08 02:12	17° © 50'58	-0°17'51
morning rise	2027 Apr 25 02:31	19° Ƴ 50'45		min. Earth dist.	2034 Jan 07 21:44	17° © 51'54	8.04806 AU
retrograde	2027 Aug 09 18:06	27° Ƴ 52'49		direct	2034 Mar 16 02:30	14° © 21'41	
opposition	2027 Oct 18 00:36	24° Ƴ 24'42	-2°47'01	asc. node	2034 Jun 21 15:38	21° © 37'32	
min. Earth dist.	2027 Oct 18 00:55		8.32600 AU	evening set	2034 Jun 29 05:22	22° © 34'33	
direct	2027 Dec 24 02:47	21° Y 01'14		Ü			
evening set	2028 Apr 03 03:20	28° Ƴ 44'19		conjunction	2034 Jul 17 09:49	24° © 55'02	0°02'18
S	2028 Apr 13 03:40	0°8		minimum elong	2034 Jul 17 09:49	24° © 55'02	0°02'18
	1	_		behind sun begin	2034 Jul 17 02:27	24°952'41	
conjunction	2028 Apr 20 12:10	0° 8 56'11	-2°13'35	behind sun end	2034 Jul 17 17:10	24° © 57'24	
minimum elong	2028 Apr 20 12:11	0° 8 56'11		max. Earth dist.	2034 Jul 17 15:41	24° © 56'55	10.06667 AU
max. Earth dist.	2028 Apr 20 12:59		10.27382 AU	morning rise	2034 Aug 04 13:18	27° © 15'11	
morning rise	2028 May 08 01:29	3° 8 09'31			2034 Aug 27 02:46	$0^{\circ}\Omega$	
retrograde	2028 Aug 22 22:17	11° 8 18'49		retrograde	2034 Nov 16 12:01	5°Ω22'31	
opposition	2028 Oct 30 17:34	7° 8 49'42	-2°42'17	opposition	2035 Jan 22 03:25	1°Ω54'55	0°23'07
min. Earth dist.	2028 Oct 30 16:21		8.22757 AU	min. Earth dist.	2035 Jan 21 22:16	1° Ω 55'58	8.09161 AU
direct	2029 Jan 05 12:39	4° 8 25'00	0.22707110	Time Darvir Gibt.	2035 Feb 15 19:35	30°Rூ	0.09101110
evening set	2029 Apr 17 03:24	12° 8 15'58		direct	2035 Mar 30 13:13	28°\$25'29	
evening set	2027 Apr 17 03.24	12 01330		direct	2035 May 11 20:45	0°Ω	
conjunction	2029 May 04 16:57	14° 8 30'30	-2°05'51	evening set	2035 Jul 14 04:54	6° Ω 37'16	
minimum elong	2029 May 04 16:59	14° 8 30'31		evening sec	2033 341 11 01.31	0 0037 10	
max. Earth dist.	2029 May 04 19:16		10.18241 AU	conjunction	2035 Aug 01 08:04	8° Ω 56'28	0°34'42
max. Earth dist.	2029 May 04 15:16 2029 May 08 12:45	15° 8	10.10241710	minimum elong	2035 Aug 01 08:02	8°Ω56'28	0°34'43
morning rise	2029 May 22 10:35	16° 8 46'23		max. Earth dist.	2035 Aug 01 06:02 2035 Aug 01 14:29		10.12283 AU
retrograde	2029 Sep 06 08:35	25° 8 01'09		morning rise	2035 Aug 19 08:53	11° Ω 14'57	10.12203 110
opposition	2029 Nov 13 15:00	21° 8 31'22	2028:10	morning risc	2035 Sep 20 04:01	11 0 14 37	
min. Earth dist.	2029 Nov 13 12:32	_	8.14441 AU	retrograde	2035 Nov 30 11:07	19° Ω 14'59	
direct	2030 Jan 19 03:54	18° 8 05'25	6.14441 AU	opposition	2036 Feb 05 01:32	15° Ω 48'41	1°02'11
evening set	2030 May 01 12:09	26° 8 03'38		min. Earth dist.	2036 Feb 04 20:14		8.15939 AU
evening set	2030 Way 01 12.09	20 003 38		iiiii. Lattii dist.	2036 Feb 15 02:11	15° ₹ Ω	6.13939 AU
conjunction	2030 May 19 06:22	28° 8 20'36	-1°50'48	direct	2036 Apr 12 22:37	13° Ω 19'26	
minimum elong	2030 May 19 06:25	28° 8 20'37		direct	2036 Jun 08 09:19	15° Ω	
max. Earth dist.	2030 May 19 00:23 2030 May 19 09:43	_	10.10901 AU	evening set	2036 Jul 27 23:41	20° Ω 28'12	
max. Latin dist.	2030 Jun 01 02:34	0°II	10.10701 AC	evening set	2030 Jul 27 23.41	20 6620 12	
morning rise	2030 Jun 06 04:09	0° Ⅱ 38'44		conjunction	2036 Aug 14 23:53	22° Ω 45'21	1°04'42
retrograde	2030 Sep 20 21:30	8° I I56'47		minimum elong	2036 Aug 14 23:50	22° Ω 45'20	1°04'43
opposition	2030 Nov 27 15:56	5° Ⅱ 26'42	-2°05'25	max. Earth dist.	2036 Aug 15 06:12		10.20105 AU
min. Earth dist.	2030 Nov 27 12:43		8.08153 AU	morning rise	2036 Sep 01 20:40	25° Ω 01'27	10.20103 710
direct	2031 Feb 02 02:25	1° I I59'37	0.00133710	morning rise	2036 Oct 16 07:34	0° m	
evening set	2031 May 16 04:26	10° Ⅱ 03'59		retrograde	2036 Dec 13 02:58	2° mp 53'16	
e renning see	2001 11149 10 0 1.20	10 203 67		renograde	2037 Feb 11 06:46	30°R Ω	
conjunction	2031 Jun 03 02:59	12° Ⅱ 22'58	-1°29'02	opposition	2037 Feb 17 19:27	29° Ω 28'24	1°36'57
minimum elong	2031 Jun 03 03:02	12° Ⅱ 22'59		min. Earth dist.	2037 Feb 17 14:50	29° Ω 29'20	8.24715 AU
max. Earth dist.	2031 Jun 03 06:53		10.05826 AU	direct	2037 Apr 27 04:57	25° Ω 59'36	0.24/13/10
morning rise	2031 Jun 21 04:19	14° I I42'50	10.03020710	ancet	2037 Jul 07 02:31	0° m)	
retrograde	2031 Oct 05 10:50	23° I 01'40		evening set	2037 Aug 11 11:08	بران 4° ا س 03'37	
opposition	2031 Dec 11 19:00	19° ∏ 31'40	-1°34'43	evening sec	2037 Hug 11 11.00	1 110 03 37	
min. Earth dist.	2031 Dec 11 15:34		8.04307 AU	conjunction	2037 Aug 29 07:12	6° Mp 18'11	1°30'34
direct	2032 Feb 16 07:00	16° Ⅱ 03'36	2.2 .20, 110	minimum elong	2037 Aug 29 07:09	6°Mp18'10	1°30'35
evening set	2032 New 30 02:23	24° I 12'40		max. Earth dist.	2037 Aug 29 12:34	-	10.29657 AU
	_002iuj 50 02.25	12 70		morning rise	2037 Sep 15 23:10	8° my 31'28	-0.27007710
conjunction	2032 Jun 17 04:23	26° Ⅲ 33'00	-1°01'44	retrograde	2037 Dec 26 11:36	16° Mp 14'39	
minimum elong	2032 Jun 17 04:26	26° I 33'01	1°01'44	opposition	2038 Mar 03 08:33	12° My 51'13	2°05'37
max. Earth dist.	2032 Jun 17 04:20 2032 Jun 17 08:53		10.03344 AU	min. Earth dist.	2038 Mar 03 04:59	12° m 51' 56	8.34959 AU
morning rise	2032 Jul 05 08:07	28° I 53'53	-0.05511710	direct	2038 May 11 06:22	9° m 23'07	5.5 .757 110
	2032 Jul 14 02:16	0°9		evening set	2038 Aug 25 13:24	17° Mp 20'56	
retrograde	2032 Oct 18 22:27	7°911'00		3.0	_0001146 20 10.24	1, my 2000	
opposition	2032 Dec 24 22:55	3°941'30	-0°58'03	conjunction	2038 Sep 12 04:43	19° m 32'38	1°51'04
- F. F	2. 2. 22.33	1150					

minimum elong	2038 Sep 12 04:40	19° m 32'37	1°51'04	evening set	2044 Nov 07 16:53	0° ҂ ¹49'26	
max. Earth dist.	2038 Sep 12 08:31	19° m 33'49	10.40370 AU				
morning rise	2038 Sep 29 15:37	21°Mp42'56		conjunction	2044 Nov 24 10:46	2° ҂ ¹48'05	1°45'46
retrograde	2039 Jan 08 11:55	29° Mp 17'27		minimum elong	2044 Nov 24 10:48	2° ҂ ¹48'05	1°45'46
opposition	2039 Mar 16 16:13	25° m 55'25	2°26'59	max. Earth dist.	2044 Nov 24 06:13	2° х 46′43	10.96274 AU
min. Earth dist.	2039 Mar 16 13:48	25° m 55'53	8.46053 AU	morning rise	2044 Dec 11 02:00	4° ∡¹ 45'57	
direct	2039 May 25 03:06	22° m 28'12		retrograde	2045 Mar 20 18:13	11° ∡ ¹47'04	
	2039 Sep 05 15:15	0∘ ⊽		opposition	2045 May 29 10:58	8° ҂ ¹29'39	1°58'26
evening set	2039 Sep 08 05:43	0° £ 18'52		min. Earth dist.	2045 May 29 14:29	8° ₹ ¹29'00	8.98720 AU
evening see	2003 Sep 00 00.13	0 —1002		direct	2045 Aug 08 15:01	5° х 08'53	0.50720110
agniunation	2039 Sep 25 16:08	2° £ 27'38	2005126	evening set	2045 Nov 19 07:50	12°×18'48	
conjunction	•			evening set	2043 NOV 19 07.30	12 × 10 40	
minimum elong	2039 Sep 25 16:06	2° £ 27'37			2045 D 06 00 20	140 7160	1006150
max. Earth dist.	2039 Sep 25 18:01		10.51607 AU	conjunction	2045 Dec 06 00:30	14° ⊀ 16'36	1°26'50
morning rise	2039 Oct 12 22:04	4° ≏ 34'59		minimum elong	2045 Dec 06 00:32	14° ≯ 16'36	1°26'51
retrograde	2040 Jan 21 04:13	12° ≏ 01'17		max. Earth dist.	2045 Dec 05 20:06	14° ₹ 15'18	11.00495 AU
opposition	2040 Mar 28 18:15	8° ≏ 40'29	2°40'29	morning rise	2045 Dec 22 15:00	16° ∡ 13'50	
min. Earth dist.	2040 Mar 28 16:34	8° £ 40'49	8.57333 AU	retrograde	2046 Apr 01 14:46	23° х 13′49	
direct	2040 Jun 06 17:55	5° £ 14'19		opposition	2046 Jun 10 15:22	19° ∡ ¹56'17	1°33'03
evening set	2040 Sep 20 11:32	12° ≏ 57'18		min. Earth dist.	2046 Jun 10 19:03	19° ∡ 755'36	9.01900 AU
8				direct	2046 Aug 20 19:12	16° ∡ ³36'14	
conjunction	2040 Oct 07 17:26	15° ჲ 03'19	2°13'24	evening set	2046 Nov 30 19:17	23° × ⁷ 42'12	
•				evening set	20401101 30 17.17	23 🗡 72 12	
minimum elong	2040 Oct 07 17:25	15° Ω 03'18	2°13'23		2046 D 17 11 07	250 720122	100 412 5
max. Earth dist.	2040 Oct 07 18:05		10.62712 AU	conjunction	2046 Dec 17 11:07	25° 🖈 39'33	1°04'35
morning rise	2040 Oct 24 18:47	17° ≏ 07'57		minimum elong	2046 Dec 17 11:09	25° ≯ 39'33	1°04'35
retrograde	2041 Feb 01 16:02	24° £ 26'53		max. Earth dist.	2046 Dec 17 06:22	25° ≯ 38'08	11.02668 AU
opposition	2041 Apr 10 15:12	21° ≏ 07'12	2°46'01	morning rise	2047 Jan 03 01:32	27° ҂ ³36'32	
min. Earth dist.	2041 Apr 10 14:25	21° ≏ 07'21	8.68160 AU		2047 Jan 24 15:41	0°ප	
direct	2041 Jun 20 01:10	17° ≏ 42'11		retrograde	2047 Apr 13 11:47	4° る 36'50	
evening set	2041 Oct 03 07:09	25° £ 17'27		opposition	2047 Jun 22 19:09	1°る18'58	1°04'10
-				min. Earth dist.	2047 Jun 22 23:42	1°る18'08	9.02995 AU
conjunction	2041 Oct 20 09:07	27° ₽ 21'02	2°14'59		2047 Jul 11 02:59	30°R. ✓	
minimum elong	2041 Oct 20 09:07	27° ₽ 21'02		direct	2047 Sep 01 18:30	27° х 59'28	
max. Earth dist.	2041 Oct 20 08:50		10.73095 AU	direct	2047 Oct 22 11:10	0°る	
		27 = 2037 29° = 23'20	10.73093 AU		2047 Oct 22 11:10 2047 Dec 12 04:46	5° る 02'46	
morning rise	2041 Nov 06 06:36			evening set	204 / Dec 12 04:46	3 002 46	
	2041 Nov 11 10:58	0°M			2015 20 20 00	5 0 7 0000	0000150
retrograde	2042 Feb 13 22:50	6°M35'58		conjunction	2047 Dec 28 20:03	7° ろ 00'00	0°39'52
opposition	2042 Apr 23 07:28	3°M17'14	2°43'55	minimum elong	2047 Dec 28 20:04	7° る 00'00	
min. Earth dist.	2042 Apr 23 08:05	3°M17'07	8.78021 AU	max. Earth dist.	2047 Dec 28 14:18		11.02735 AU
	2042 Jun 21 10:26	30° ₹ Ω		morning rise	2048 Jan 14 10:59	8° る 57'09	
direct	2042 Jul 02 23:48	29° £ 53'25		retrograde	2048 Apr 24 07:54	15° る 59'18	
	2042 Jul 14 13:59	0°M₊		opposition	2048 Jul 03 23:05	12° る 40'51	0°32'47
evening set	2042 Oct 15 17:56	7°M21'19		min. Earth dist.	2048 Jul 04 04:09	12° る 39'55	9.01986 AU
· ·				direct	2048 Sep 12 16:56	9° ට 21'41	
conjunction	2042 Nov 01 16:31	9°M22'52	2°10'32	evening set	2048 Dec 22 14:00	16° る 23'48	
minimum elong	2042 Nov 01 16:33	9°M22'53	2°10'31				
max. Earth dist.	2042 Nov 01 14:49		10.82340 AU	conjunction	2049 Jan 08 05:17	18° ට 21'16	0013133
morning rise	2042 Nov 18 11:02	11°M23'16	10.02540 AC	minimum elong	2049 Jan 08 05:17 2049 Jan 08 05:17	18° පි 21'16	
morning rise				Č			0 13 32
	2042 Dec 21 13:50	15°M		behind sun begin	2049 Jan 08 01:17	18°る20'06	
retrograde	2043 Feb 25 23:40	18°M30'46		behind sun end	2049 Jan 08 09:17	18° る 22'26	
opposition	2043 May 05 19:38	15°M12'46		max. Earth dist.	2049 Jan 07 23:23		11.00702 AU
min. Earth dist.	2043 May 05 22:06	15°M12'18	8.86577 AU	morning rise	2049 Jan 24 21:04	20° る 18'54	
	2043 May 08 15:18	15°RM		retrograde	2049 May 06 09:12	27° る 24'26	
direct	2043 Jul 15 18:07	11°M50'04		desc. node	2049 Jul 15 20:32	24° る 06'32	
	2043 Sep 18 09:46	15° M ₊		opposition	2049 Jul 16 03:51	24° ප 05'11	-0°00'02
evening set	2043 Oct 27 20:50	19° M .11'11		min. Earth dist.	2049 Jul 16 08:31	24° る 04'19	8.98910 AU
				direct	2049 Sep 24 15:34	20° ප් 46'13	
conjunction	2043 Nov 13 16:40	21°MJ11'04	2°00'34	evening set	2050 Jan 03 00:34	27° る 48'32	
minimum elong	2043 Nov 13 16:42	21°ML11'05				002	
max. Earth dist.	2043 Nov 13 10:42 2043 Nov 13 12:55		10.90151 AU	conjunction	2050 Jan 19 16:18	29° ප් 46'37	-0°13'32
		21 1160937 23°M09'59	10.70131 AU		2050 Jan 19 16:18	29 3 4637 29° 3 46'37	
morning rise	2043 Nov 30 09:11			minimum elong			0 13 32
	2044 Feb 21 14:21	0° ∡ ¹		behind sun begin	2050 Jan 19 12:18	29° る 45'26	
retrograde	2044 Mar 08 22:26	0° ≯ 13'38		behind sun end	2050 Jan 19 20:18	29° る 47'47	
	2044 Mar 25 10:02	30°RM₊		max. Earth dist.	2050 Jan 19 11:27		10.96626 AU
opposition	2044 May 17 04:37	26°M56'04			2050 Jan 21 13:16	0° ≈	
min. Earth dist.	2044 May 17 08:02	26°M55'26	8.93555 AU	morning rise	2050 Feb 05 09:09	1° ≈ 45′05	
direct	2044 Jul 27 07:28	23°M34'24		retrograde	2050 May 18 14:28	8° ≈ 55'26	
	2044 Oct 31 12:52	0° ∡ ¹		opposition	2050 Jul 28 10:43	5° ≈ 35'13	-0°33'08

min. Earth dist.	2050 Jul 28 14:27	5°∞34'31	8.93853 AU	min. Earth dist.	2056 Oct 11 18:20	19° Ƴ 12'39	8.37394 AU
direct	2050 Oct 06 12:43	2°≈16'17	6.93633 AU	direct	2056 Dec 17 23:54	15° Υ 49'51	8.37394 AU
evening set	2051 Jan 14 14:15	9°≈20'20		evening set	2057 Mar 28 20:48	23° Y 29'38	
evening set	2031 3411 14 14.13	7 7012020		evening set	2037 Will 20 20.40	23 12730	
conjunction	2051 Jan 31 06:37	11° ≈ 19'19	-0°40'15	conjunction	2057 Apr 15 03:34	25° Ƴ 40′20	-2°14'29
minimum elong	2051 Jan 31 06:36	11°≈19'18	0°40'15	minimum elong	2057 Apr 15 03:35	25°Υ40'20	
max. Earth dist.	2051 Jan 31 02:02		10.90637 AU	max. Earth dist.	2057 Apr 15 04:15		10.32244 AU
morning rise	2051 Feb 17 00:52	13°≈18'55	10.90037110	morning rise	2057 May 02 15:08	27° Y 52'32	10.5221110
	2051 Mar 03 19:14	15° ≈			2057 May 20 06:00	0°8	
retrograde	2051 May 31 01:17	20° ≈ 35'28		retrograde	2057 Aug 17 11:51	5° 8 58'56	
opposition	2051 Aug 09 20:41	17°≈14'10	-1°05'21	opposition	2057 Oct 25 10:40	2° 8 30'40	-2°45'08
min. Earth dist.	2051 Aug 10 00:07	17°≈13'31	8.86996 AU	min. Earth dist.	2057 Oct 25 09:18		8.27625 AU
	2051 Sep 11 14:35	15°R≈			2057 Nov 29 18:50	30°RY	0.2.020
direct	2051 Oct 18 11:52	13°≈55'03		direct	2057 Dec 31 06:59	29° Y 06′59	
ancet	2051 Nov 23 11:44	15° ≈		direct	2058 Jan 31 09:16	0°8	
evening set	2052 Jan 26 08:35	21°≈02'16		evening set	2058 Apr 11 17:13	6° 8 54'35	
e venning see	2002 3411 20 00.55	21 /0/02 10		evening sec	2000 ripi 11 17.13	0 03133	
conjunction	2052 Feb 12 01:53	23°≈02'30	-1°05'39	conjunction	2058 Apr 29 04:29	9° 8 07'52	-2°09'46
minimum elong	2052 Feb 12 01:51	23°≈02'29	1°05'39	minimum elong	2058 Apr 29 04:31	9° 8 07'53	
max. Earth dist.	2052 Feb 11 21:04		10.82964 AU	max. Earth dist.	2058 Apr 29 06:22	_	10.23043 AU
morning rise	2052 Feb 28 22:03	25°≈03'35	10.02901110	morning rise	2058 May 16 20:21	11° 8 22'36	10.230 13 110
morning 1130	2052 Apr 16 13:54	0° ∀		morning rise	2058 Jun 16 14:28	15° 8	
retrograde	2052 Jun 11 17:22	2°)(27'30		retrograde	2058 Aug 31 19:38	19° 8 35'00	
retrograde	2052 Juli 11 17:22 2052 Aug 09 03:35	2 / (2/30 30°R≈		opposition	2058 Nov 08 06:38	16° 8 06'04	2024155
omnosition	-	29°≈05'00	1025122	min. Earth dist.	2058 Nov 08 00:38 2058 Nov 08 04:35		8.19111 AU
opposition	2052 Aug 21 10:32			min. Earth dist.		_	8.19111 AU
min. Earth dist.	2052 Aug 21 13:58	29°≈04'21	8.78608 AU	J:4	2058 Nov 22 03:00	15°R 8	
direct	2052 Oct 29 13:19	25°≈45'29		direct	2059 Jan 13 20:42	12° 8 41'14	
. ,	2053 Jan 11 02:52	0°) (57117		. ,	2059 Mar 05 22:57	15° 8	
evening set	2053 Feb 06 08:51	2° 升 57′17		evening set	2059 Apr 25 22:21	20° 8 36'05	
· · · · · · · · · · · ·	2052 E-k 22 02.41	40 W 50102	192920		2050 M 12 14-20	220051152	1057141
conjunction	2053 Feb 23 03:41	4° ¥ 59'02		conjunction	2059 May 13 14:28	22° 8 51'52	
minimum elong	2053 Feb 23 03:39	4° ¥ 59'02		minimum elong	2059 May 13 14:31	22° 8 51'53	
max. Earth dist.	2053 Feb 22 23:30		10.73906 AU	max. Earth dist.	2059 May 13 17:43	_	10.15338 AU
morning rise	2053 Mar 12 02:05	7° H 01'53		morning rise	2059 May 31 10:34	25° 8 08'56	
retrograde	2053 Jun 24 15:28	14°) (34'09	2001152		2059 Jul 12 19:58	0°II	
opposition	2053 Sep 03 04:53	11°) 10′21		retrograde	2059 Sep 15 06:28	3° Ⅱ 25'18	
min. Earth dist.	2053 Sep 03 07:41	11°) (09'49	8.69015 AU		2059 Nov 21 10:20	30° ₹ 8	
direct	2053 Nov 10 20:13	7°) € 50'17		opposition	2059 Nov 22 06:10	29° 8 55'57	
evening set	2054 Feb 18 16:30	15°) €07'53		min. Earth dist.	2059 Nov 22 03:22		8.12273 AU
				direct	2060 Jan 27 17:51	26° 8 29'59	
conjunction	2054 Mar 07 13:27	17° ∺ 11'31			2060 Mar 31 11:50	0°II	
minimum elong	2054 Mar 07 13:24	17° ∺ 11'30		evening set	2060 May 09 11:33	4° Ⅱ 31'16	
max. Earth dist.	2054 Mar 07 10:56		10.63822 AU				
morning rise	2054 Mar 24 14:18	19° 米 16′23		conjunction	2060 May 27 08:21	6° ∏ 49'14	
retrograde	2054 Jul 07 22:05	26° ∺ 57'33		minimum elong	2060 May 27 08:24	6° Ⅱ 49'15	
opposition	2054 Sep 16 04:11	23° ∺ 32'29		max. Earth dist.	2060 May 27 12:41		10.09495 AU
min. Earth dist.	2054 Sep 16 05:32		8.58620 AU	morning rise	2060 Jun 14 08:11	9° Ⅱ 08'13	
direct	2054 Nov 23 08:06	20° ∺ 11'43		retrograde	2060 Sep 28 18:55	17° Ⅱ 26'18	
evening set	2055 Mar 03 08:34	27°) ₹36′05		opposition	2060 Dec 05 08:05	13° I I56'54	
				min. Earth dist.	2060 Dec 05 04:29	13° Ⅱ 57'39	8.07449 AU
conjunction	2055 Mar 20 08:11	29°) 41′52		direct	2061 Feb 09 19:58	10° Ⅱ 29'54	
minimum elong	2055 Mar 20 08:09	29°) 41′52	2°02'56	evening set	2061 May 24 07:09	18° Ⅲ 36'30	
max. Earth dist.	2055 Mar 20 07:17	29°) 41′35	10.53170 AU				
	2055 Mar 22 18:30	0 ° Υ		conjunction	2061 Jun 11 07:52	20° Ⅱ 56′09	-1°13'25
morning rise	2055 Apr 06 12:01	1° Y 49'01		minimum elong	2061 Jun 11 07:55	20° Ⅲ 56′10	1°13'25
retrograde	2055 Jul 21 12:50	9° Ƴ 39'14		max. Earth dist.	2061 Jun 11 12:54	20° Ⅲ 57'47	10.05847 AU
opposition	2055 Sep 29 09:02	6° Ƴ 12'56	-2°38'35	morning rise	2061 Jun 29 10:30	23° Ⅱ 16′27	
min. Earth dist.	2055 Sep 29 08:54	6° Ƴ 12'58	8.47906 AU		2061 Sep 01 07:39	0ಂತ	
direct	2055 Dec 06 00:06	2° Y 51'20		retrograde	2061 Oct 13 07:46	1° © 33'59	
evening set	2056 Mar 15 09:49	10° Ƴ 23'13			2061 Nov 24 19:04	30° Ŗ Ⅱ	
-				opposition	2061 Dec 19 11:35	28° Ⅱ 04'52	-1°13'33
conjunction	2056 Apr 01 12:41	12° Y 31'22	-2°12'01	min. Earth dist.	2061 Dec 19 07:25	28° Ⅱ 05'43	8.04996 AU
minimum elong	2056 Apr 01 12:41	12° Ƴ 31′22		direct	2062 Feb 24 01:55	24° Ⅱ 36'59	
max. Earth dist.	2056 Apr 01 12:44		10.42465 AU		2062 May 16 10:50	0ಂತಾ	
morning rise	2056 Apr 18 20:10	14° Y 40′59	-	evening set	2062 Jun 08 06:56	2°5947'18	
retrograde	2056 Aug 03 09:26	22° Ƴ 39'50					
opposition	2056 Oct 11 19:20	19° Υ 12'27	-2°46'10	conjunction	2062 Jun 26 10:18	5° © 07'52	-0°43'42
* *		,		•			

minimum elong max. Earth dist.	2062 Jun 26 10:20 2062 Jun 26 15:43 2062 Jul 14 14:24	5° 5 07'53 5° 5 09'38 7° 5 28'41	0°43'42 10.04735 AU	max. Earth dist. morning rise	2068 Sep 19 13:41 2068 Oct 06 18:29 2068 Oct 11 02:56	27° Mp 20'47 29° Mp 28'24 0° <u>a</u>	10.46298 AU
morning rise retrograde	2062 Jul 14 14.24 2062 Oct 27 18:58	15°943'20		retrograde	2068 Oct 11 02.36 2069 Jan 15 06:00	0 <u>₽</u> 6° ₽ 57'57	
opposition	2063 Jan 02 15:08	13° 9 14'47	-0°34'35	opposition	2069 Mar 23 15:48	3° ⊆ 36'10	2°35'53
min. Earth dist.	2063 Jan 02 10:52	12°915'40	8.05199 AU	min. Earth dist.	2069 Mar 23 13:52	3° ⊆ 36'33	8.51920 AU
direct	2063 Mar 10 10:20	8°946'11	0.03177110	direct	2069 Jun 01 10:30	0° ⊆ 09'04	0.51720710
evening set	2063 Jun 23 08:41	16°\$58'22		evening set	2069 Sep 15 07:40	7° ≙ 55'08	
conjunction	2063 Jul 11 13:06	19°©18'58	-0°11'22	conjunction	2069 Oct 02 15:34	10° ≏ 02'19	2°10'53
minimum elong	2063 Jul 11 13:07	19° © 18'58	0°11'23	minimum elong	2069 Oct 02 15:32	10° ≙ 02'19	2°10'53
behind sun begin	2063 Jul 11 07:51	19° © 17'17		max. Earth dist.	2069 Oct 02 17:19		10.57334 AU
behind sun end	2063 Jul 11 18:23	19°520'40	10.06224 ATT	morning rise	2069 Oct 19 18:45	12° £ 08'06	
max. Earth dist. morning rise	2063 Jul 11 18:26 2063 Jul 29 17:03	19° © 20'41 21° © 39'24	10.06324 AU	retrograde opposition	2070 Jan 27 19:01 2070 Apr 05 14:27	19° ≙ 29'54 16° ≙ 09'16	2°44'45
retrograde	2063 Nov 11 02:17	21 3 3924 29° 9 48'58		min. Earth dist.	2070 Apr 05 13:55	16° ⊆ 09'10	8.62925 AU
asc. node	2063 Nov 19 04:09	29°545'16		direct	2070 Jun 14 20:01	12° Ω 43'13	0.02)23 110
opposition	2064 Jan 16 17:08	26°521'16	0°06'20	evening set	2070 Sep 28 07:11	20° £ 21'33	
min. Earth dist.	2064 Jan 16 13:11	26°9522'05	8.08109 AU	<i>8</i>	1		
direct	2064 Mar 23 21:33	22° © 52'11		conjunction	2070 Oct 15 10:44	22° ჲ 26′09	2°15'08
	2064 Jun 28 19:27	$0^{\circ}\Omega$		minimum elong	2070 Oct 15 10:44	22° ≏ 26′09	2°15'08
evening set	2064 Jul 07 09:22	1° Ω 04'13		max. Earth dist.	2070 Oct 15 10:35	22° ≏ 26′06	10.68124 AU
				morning rise	2070 Nov 01 09:56	24° ≏ 29'25	
conjunction	2064 Jul 25 13:06	3° Ω 23'55	0°21'30		2070 Dec 25 20:46	0° M ₊	
minimum elong	2064 Jul 25 13:05	3° Ω 23'55	0°21'31	retrograde	2071 Feb 09 01:59	1° M 44'19	
max. Earth dist.	2064 Jul 25 17:53		10.10542 AU		2071 Mar 27 18:16	30° ₹ Ω	
morning rise	2064 Aug 12 15:11	5° Ω 43'04		opposition	2071 Apr 18 08:06	28° £ 24'43	2°45'49
retrograde	2064 Nov 24 02:33	13° Ω 45'53	0046126	min. Earth dist.	2071 Apr 18 08:19	28° £ 24'40	8.73413 AU
opposition min. Earth dist.	2065 Jan 29 16:28 2065 Jan 29 12:51	10° Ω 19'15 10° Ω 19'59	0°46'26 8.13552 AU	direct	2071 Jun 27 22:35	24° ≏ 59'52 0° ™	
direct	2065 Apr 07 08:46	6° Ω 49'59	6.13332 AU	evening set	2071 Sep 18 17:23 2071 Oct 10 21:08	2°M30'33	
evening set	2065 Jul 22 05:57	14° Ω 59'49		evening set	20/1 Oct 10 21.08	2 1163033	
evening sec	2065 Jul 22 06:31	15° Ω		conjunction	2071 Oct 27 21:01	4°MJ32'53	2°13'12
				minimum elong	2071 Oct 27 21:02	4°M32'53	2°13'11
conjunction	2065 Aug 09 07:20	17° Ω 17'47	0°52'42	max. Earth dist.	2071 Oct 27 19:48	4°MJ32'31	10.78173 AU
minimum elong	2065 Aug 09 07:17	17° Ω 17'46	0°52'42	morning rise	2071 Nov 13 16:53	6°M34'01	
max. Earth dist.	2065 Aug 09 11:34	17° Ω 19′09	10.17115 AU	retrograde	2072 Feb 21 04:08	13°ML43'08	
morning rise	2065 Aug 27 06:03	19° Ω 34'52		opposition	2072 Apr 29 21:15	10°M24'23	2°39'34
retrograde	2065 Dec 07 19:33	27° Ω 29'52		min. Earth dist.	2072 Apr 29 21:42	10°M24'18	8.82922 AU
opposition	2066 Feb 12 11:51	24° Ω 04'23	1°23'11	direct	2072 Jul 09 19:46	7°M00'48	
min. Earth dist.	2066 Feb 12 08:11	24° Ω 05'08	8.21172 AU	evening set	2072 Oct 22 02:28	14°M24'15	
direct	2066 Apr 21 17:23	20° Ω 35'16 28° Ω 41'04			2072 Oct 27 03:48	15° M ₊	
evening set	2066 Aug 05 20:05 2066 Aug 16 07:25	0° Mp		conjunction	2072 Nov 07 23:30	16°M24'42	2°05'31
	2000 Aug 10 07.23	עווי ∪		minimum elong	2072 Nov 07 23:30 2072 Nov 07 23:32	16°M24'43	2°05'31
conjunction	2066 Aug 23 17:55	0° m 56'41	1°20'25	max. Earth dist.	2072 Nov 07 22:08		10.87059 AU
minimum elong	2066 Aug 23 17:52	0° m 56'40	1°20'26	morning rise	2072 Nov 24 16:46	18°ML24'07	10.0,000,110
max. Earth dist.	2066 Aug 23 21:52		10.25625 AU	retrograde	2073 Mar 04 04:31	25°M28'41	
morning rise	2066 Sep 10 12:10	3°M/11'09		opposition	2073 May 12 06:46	22°M10'38	2°26'42
retrograde	2066 Dec 21 05:57	10° m 57'40		min. Earth dist.	2073 May 12 07:52	22°M10'25	8.91070 AU
opposition	2067 Feb 26 02:20	7° Mp 33′25	1°54'33	direct	2073 Jul 22 09:21	18°M48'18	
min. Earth dist.	2067 Feb 25 22:43	7° ™ 34'08	8.30484 AU	evening set	2073 Nov 03 00:29	26°M05'09	
direct	2067 May 05 20:43	4° m 04'43					
evening set	2067 Aug 20 01:50	12° m 04'57		conjunction	2073 Nov 19 19:18	28°M04'10	1°52'43
. ,.	2077 0 07 10 20	1.40 m. 1.71.7.1	1042015	minimum elong	2073 Nov 19 19:20	28°M04'11	1°52'43
conjunction	2067 Sep 06 19:20	14° Mp 17'51	1°43'15 1°43'16	max. Earth dist.	2073 Nov 19 17:16	28°M03'34 0° ₹02'19	10.94423 AU
minimum elong max. Earth dist.	2067 Sep 06 19:17 2067 Sep 06 22:59	14° Mp 17'50 14° Mp 19'00	1 43 10 10.35544 AU	morning rise	2073 Dec 06 10:53 2073 Dec 06 02:56	0° ⊼ ¹	
morning rise	2067 Sep 06 22:39 2067 Sep 24 08:28	14 m/1900 16° m/29'24	10.55577 AU	retrograde	2074 Mar 16 00:57	0 x ⁴ 7° x ¹03'37	
retrograde	2068 Jan 03 10:21	24° Mp 07'18		opposition	2074 May 24 13:21	3° ₹ 146'04	2°08'03
opposition	2068 Mar 10 11:45	20° mp 44'18	2°19'03	min. Earth dist.	2074 May 24 15:48	3° ∡ 745'36	8.97543 AU
min. Earth dist.	2068 Mar 10 08:37	20° m/44'55	8.40924 AU	direct	2074 Aug 03 16:33	0° ∡ 724'52	
direct	2068 May 18 18:17	17° m) 16'17		evening set	2074 Nov 14 16:58	7° ∡ ³36′09	
evening set	2068 Sep 01 21:53	25° m 09'48					
				conjunction	2074 Dec 01 10:00	9° ₰ ³34'06	1°35'29
conjunction minimum elong	2068 Sep 19 10:34 2068 Sep 19 10:32	27° Mp 19'49 27° Mp 19'48	2°00'14 2°00'14	conjunction minimum elong max. Earth dist.	2074 Dec 01 10:00 2074 Dec 01 10:02 2074 Dec 01 06:24	9° ∡ ³34'07	1°35'29 1°35'29 10.99988 AU

conjunction minimum elong max. Earth dist.	2087 Apr 23 03:56 2087 Apr 23 03:57 2087 Apr 23 04:53	3°815'17 3°815'17 3°815'35 5°828'54		behind sun end max. Earth dist. morning rise	2093 Jul 19 11:07 2093 Jul 19 10:49 2093 Aug 06 07:27	27° © 20'36 27° © 20'30 29° © 38'24 0° Ω	10.07056 AU
morning rise retrograde	2087 May 10 17:38 2087 Aug 25 16:04	13° 8 38'56		retrograde	2093 Aug 09 03:52 2093 Nov 18 04:14	7°Ω45'02	
opposition	2087 Nov 02 08:49	10° 8 09'45	-2°40'49	opposition	2094 Jan 23 19:18	4°Ω17'30	0°28'31
min. Earth dist.	2087 Nov 02 07:17		8.21749 AU	min. Earth dist.	2094 Jan 23 13:51	4°Ω18'37	8.09671 AU
direct	2088 Jan 08 01:47	6° 8 44'56		direct	2094 Apr 01 06:14	0° Ω 48′02	
evening set	2088 Apr 18 19:45	14° 8 36'46		evening set	2094 Jul 15 22:50	8° Ω 59'33	
	2088 Apr 21 21:18	15° 8					
				conjunction	2094 Aug 03 01:43	11° Ω 18'34	0°38'53
conjunction	2088 May 06 09:42	16° 8 51'34		minimum elong	2094 Aug 03 01:41	11°Ω18'34	0°38'54
minimum elong	2088 May 06 09:45	16° 8 51'34		max. Earth dist.	2094 Aug 03 08:28		10.12907 AU
max. Earth dist.	2088 May 06 11:37		10.17319 AU	morning rise	2094 Aug 21 02:05	13° Ω 36'49	
morning rise retrograde	2088 May 24 03:51 2088 Sep 08 02:33	19° 8 07'43 27° 8 22'59		retrograde	2094 Sep 01 06:52 2094 Dec 02 02:23	15° Ω 21° Ω 36'05	
opposition	2088 Sep 08 02.33 2088 Nov 15 06:50	27 8 22 39	-2°25'37	opposition	2094 Dec 02 02:23 2095 Feb 06 17:00	$18^{\circ}\Omega 09'52$	1°07'07
min. Earth dist.	2088 Nov 15 04:36		8.13615 AU	min. Earth dist.	2095 Feb 06 11:59	18° Ω 10'54	8.16669 AU
direct	2089 Jan 20 19:10	20° 8 27'06	0.13013710	mm. Dartii dist.	2095 Mar 27 15:22	15°RΩ	0.10007 110
evening set	2089 May 03 05:31	28° 8 26'05		direct	2095 Apr 15 15:02	14° Ω 40'36	
	2089 May 15 10:24	$\Pi^{\circ}0$			2095 May 04 15:23	15° Ω	
				evening set	2095 Jul 30 16:54	22° Ω 48′57	
conjunction	2089 May 21 00:09	0° Ⅱ 43'17	-1°48'09				
minimum elong	2089 May 21 00:12	0° Ⅱ 43'18		conjunction	2095 Aug 17 16:39	25° Ω 05'51	1°08'25
max. Earth dist.	2089 May 21 02:50		10.10195 AU	minimum elong	2095 Aug 17 16:36	25° Ω 05'50	1°08'25
morning rise	2089 Jun 07 22:26	3° Ⅱ 01'39		max. Earth dist.	2095 Aug 17 22:38		10.20926 AU
retrograde	2089 Sep 22 14:19	11° I I19'53	2001127	morning rise	2095 Sep 04 12:59	27° Ω 21'40	
opposition min. Earth dist.	2089 Nov 29 08:04 2089 Nov 29 05:23	7° ∏ 49'49	-2°01'37 8.07565 AU	retrograde	2095 Sep 26 12:46 2095 Dec 15 17:45	0° Т р 5° Тр 12'39	
direct	2090 Feb 03 19:23	4° Π 22'35	8.07303 AU	opposition	2095 Dec 15 17:45 2096 Feb 20 10:22	1° Mp 47'54	1°41'09
evening set	2090 May 17 22:28	12° I 127'35		min. Earth dist.	2096 Feb 20 10:22 2096 Feb 20 06:18	1° Mp 48'43	8.25624 AU
evening sec	2000 May 17 22.20	12 127 33		mm. Dartii dist.	2096 Mar 14 20:20	30°R Ω	0.23021710
conjunction	2090 Jun 04 21:24	14° Ⅱ 46'45	-1°25'35	direct	2096 Apr 28 20:27	28° Ω 19'07	
minimum elong	2090 Jun 04 21:27	14° Ⅱ 46'46	1°25'35		2096 Jun 12 10:22	0° m	
max. Earth dist.	2090 Jun 05 01:01	14° Ⅱ 47'55	10.05378 AU	evening set	2096 Aug 13 03:29	6° Mp 22′35	
morning rise	2090 Jun 22 23:06	17° Ⅱ 06'46					
retrograde	2090 Oct 07 02:59	25° Ⅱ 25'32		conjunction	2096 Aug 30 22:59	8° Mp 36'52	1°33'36
opposition	2090 Dec 13 11:21	21° Ⅲ 55'34		minimum elong	2096 Aug 30 22:56	8° TQ 36'51	1°33'37
min. Earth dist.	2090 Dec 13 08:04		8.03995 AU	max. Earth dist.	2096 Aug 31 03:36	-•	10.30629 AU
direct	2091 Feb 18 00:26 2091 Jun 01 20:43	18°Ⅲ27'22 26°Ⅲ36'48		morning rise	2096 Sep 17 14:30 2096 Dec 28 01:15	10° Mp 49'52	
evening set	2091 Juli 01 20.43	20 Д3048		retrograde opposition	2096 Dec 28 01:13 2097 Mar 04 22:53	18° Mp 32'11 15° Mp 08'53	2°08'53
conjunction	2091 Jun 19 23:03	28° Ⅱ 57'16	-0°57'42	min. Earth dist.	2097 Mar 04 22:33 2097 Mar 04 19:31	15° Mp 09'34	8.35995 AU
minimum elong	2091 Jun 19 23:06	28° I 57'17		direct	2097 May 12 22:12	11° m) 40'51	0.55775710
max. Earth dist.	2091 Jun 20 03:52		10.03181 AU	evening set	2097 Aug 27 04:40	19° m) 38'03	
	2091 Jun 27 23:57	0ಂತ			•	•	
morning rise	2091 Jul 08 02:57	1° © 18'12		conjunction	2097 Sep 13 19:25	21°M/49'26	1°53'18
retrograde	2091 Oct 21 14:49	9° © 35'01		minimum elong	2097 Sep 13 19:22	21° m 49'25	1°53'19
opposition	2091 Dec 27 15:15	6° © 05'32		max. Earth dist.	2097 Sep 13 22:50	-•	10.41451 AU
min. Earth dist.	2091 Dec 27 11:02		8.03138 AU	morning rise	2097 Oct 01 05:52	23° m 59'27	
direct	2092 Mar 03 08:55	2°936'37			2097 Nov 29 00:37	0° ⊽	
evening set	2092 Jun 15 22:08	10°548'43		retrograde	2098 Jan 09 23:37 2098 Feb 21 23:52	1° £ 33'10 30°R m)	
conjunction	2092 Jul 04 02:25	13° © 09'37	-0°26'16	opposition	2098 Mar 18 05:58	-	2°29'12
minimum elong	2092 Jul 04 02:26	13°909'37		min. Earth dist.	2098 Mar 18 03:01	28° mg 11'50	8.47182 AU
max. Earth dist.	2092 Jul 04 08:15		10.03747 AU	direct	2098 May 26 19:17	24° mp 44'10	0.1,102110
morning rise	2092 Jul 22 06:49	15° © 30'33			2098 Aug 18 17:55	0∘ ⊽	
retrograde	2092 Nov 04 00:03	23°5643'11		evening set	2098 Sep 09 19:48	2° △ 34'05	
opposition	2093 Jan 09 18:17	20°514'32	-0°12'20				
min. Earth dist.	2093 Jan 09 13:15		8.05064 AU	conjunction	2098 Sep 27 05:49	4° ≙ 42'33	2°06'49
direct	2093 Mar 17 19:31	16°5945'10		minimum elong	2098 Sep 27 05:47	4° Ω 42'32	
asc. node	2093 May 03 09:04	18°939'58		max. Earth dist.	2098 Sep 27 08:15		10.52778 AU
evening set	2093 Jun 30 23:50	24°958'00		morning rise	2098 Oct 14 11:15	6° Ω 49'37	
conjunction	2093 Jul 19 04:17	27° © 18'24	0°06'43	retrograde opposition	2099 Jan 22 16:52 2099 Mar 31 07:22	14° £ 15'10 10° £ 54'30	2°41'36
minimum elong	2093 Jul 19 04:17 2093 Jul 19 04:16	27 9 18 24 27 9 18 24		min. Earth dist.	2099 Mar 31 04:59	10 ≥ 34 30 10° ♀ 54'57	8.58547 AU
behind sun begin	2093 Jul 19 04:10 2093 Jul 18 21:25	27°516'12	3 00 13	direct	2099 Jun 09 08:09	7° £ 28'30	5.565T/ AU
	10 21.20	012				. —2000	

evening set	2099 Sep 23 00:34	15° ≙ 10'37	
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	2099 Oct 10 06:09 2099 Oct 10 06:08 2099 Oct 10 07:49 2099 Oct 27 07:00 2100 Feb 04 04:29 2100 Apr 13 03:46 2100 Apr 13 02:54	17° \$\oldsymbol{\Omega}\$16'21 17° \$\oldsymbol{\Omega}\$16'52 19° \$\oldsymbol{\Omega}\$20'42 26° \$\oldsymbol{\Omega}\$38'49 23° \$\oldsymbol{\Omega}\$19'16 23° \$\oldsymbol{\Omega}\$19'26	2°13'53 2°13'53 10.63972 AU 2°46'04 8 69458 AU
direct	2100 Apr 13 02.34 2100 Jun 22 13:01	23 1 920 19° Ω 54'25	8.09438 AU
evening set	2100 Juli 22 13:01 2100 Oct 05 19:12	19 = 34 23 27° Ω 28'42	
evening set	2100 Oct 03 19.12	27 == 28 42	
conjunction	2100 Oct 22 20:47	29° ≏ 32'01	2°14'38
minimum elong	2100 Oct 22 20:47	29° ჲ 32'01	2°14'37
max. Earth dist.	2100 Oct 22 20:46	29° ჲ 32'00	10.74423 AU
	2100 Oct 26 17:04	0° M	
morning rise	2100 Nov 08 17:53	1° M 34'03	
retrograde	2101 Feb 16 08:45	8° M 45'51	
opposition	2101 Apr 25 19:28	5°M27'15	2°42'57
min. Earth dist.	2101 Apr 25 20:32	5° M 27′02	8.79357 AU
direct	2101 Jul 05 12:53	2°M03'33	
evening set	2101 Oct 18 04:53	9° ™ 30′27	
conjunction minimum elong max. Earth dist. morning rise	2101 Nov 04 03:05 2101 Nov 04 03:06 2101 Nov 04 00:48 2101 Nov 20 21:27	11°M31'44 11°M31'44 11°M31'03 13°M31'54	2°09'23 2°09'23 10.83659 AU
	2101 Dec 03 15:28	15°M	