

conjunction	1601 Feb 10 04:21	21°≈34'29	-1°-4'-33		1606 Mar 05 12:43	0°♁	
minimum elong	1601 Feb 10 05:00	21°≈35'47	1°04'34	retrograde	1606 Apr 21 12:25	10°♁41'58	
max. Earth dist.	1601 Feb 16 17:18	26°≈44'35	2.37053 AU	desc. node	1606 Apr 22 08:15	10°♁41'43	
	1601 Feb 20 20:18	0°♁		opposition	1606 May 25 14:39	3°♁58'00	-1°-43'-10
	1601 Mar 31 03:35	0°♁		greatest brilliancy	1606 May 26 10:15	3°♁41'27	-2.2m
morning rise	1601 Apr 21 21:41	16°♁41'00		min. Earth dist.	1606 Jun 03 02:24	1°♁06'09	0.47782 AU
	1601 May 09 14:43	0°♁			1606 Jun 06 13:21	30°♁	
	1601 Jun 19 23:26	0°♁		direct	1606 Jul 02 03:24	25°♁41'48	
asc. node	1601 Jun 30 05:26	7°♁10'50			1606 Jul 28 00:18	0°♁	
	1601 Aug 02 20:58	0°♁			1606 Sep 24 16:01	0°♁	
	1601 Sep 19 05:06	0°♁			1606 Nov 06 23:36	0°≈	
	1601 Nov 12 04:06	0°♁			1606 Dec 17 13:40	0°♁	
retrograde	1602 Jan 22 14:57	21°♁44'55			1607 Jan 27 00:16	0°♁	
opposition	1602 Mar 03 04:34	12°♁26'32	4°08'22	asc. node	1607 Feb 20 02:27	17°♁32'36	
greatest brilliancy	1602 Mar 03 15:39	12°♁15'37	-1.3m		1607 Mar 09 12:14	0°♁	
min. Earth dist.	1602 Mar 05 18:31	11°♁25'31	0.66796 AU		1607 Apr 21 15:49	0°♁	
direct	1602 Apr 13 14:20	2°♁25'55			1607 Jun 05 12:53	0°♁	
	1602 Jul 04 18:55	0°♁		evening set	1607 Jun 08 08:30	1°♁50'57	
desc. node	1602 Jul 18 10:21	7°♁35'23			1607 Jul 21 19:16	0°♁	
	1602 Aug 23 22:16	0°♁					
	1602 Oct 06 17:08	0°♁		conjunction	1607 Jul 27 03:18	3°♁25'12	1°07'01
	1602 Nov 16 04:13	0°♁		minimum elong	1607 Jul 27 02:43	3°♁24'15	1°07'01
	1602 Dec 24 19:53	0°≈		max. Earth dist.	1607 Aug 02 15:57	7°♁35'44	2.66516 AU
greatest brilliancy	1602 Dec 28 03:55	2°≈37'24	1.2m		1607 Sep 06 20:12	0°♁	
	1603 Jan 31 20:32	0°♁		morning rise	1607 Sep 10 18:27	2°♁29'40	
evening set	1603 Feb 15 21:19	11°♁48'59			1607 Oct 24 01:49	0°♁	
	1603 Mar 11 06:34	0°♁			1607 Dec 10 06:25	0°♁	
	1603 Apr 19 22:23	0°♁			1608 Jan 26 16:18	0°♁	
conjunction	1603 Apr 23 00:29	2°♁16'54	0°-16'-7	desc. node	1608 Mar 09 07:19	26°♁20'58	
minimum elong	1603 Apr 23 01:44	2°♁19'13	0°16'06		1608 Mar 15 08:56	0°♁	
asc. node	1603 May 18 05:47	20°♁37'01			1608 May 08 17:36	0°≈	
	1603 May 31 10:55	0°♁		retrograde	1608 Jul 04 10:31	16°≈09'13	
max. Earth dist.	1603 Jun 06 06:11	4°♁04'26	2.49142 AU	opposition	1608 Aug 03 11:55	11°≈11'45	-6°-49'-32
morning rise	1603 Jun 22 09:41	15°♁15'31		greatest brilliancy	1608 Aug 04 01:06	11°≈03'00	-2.9m
	1603 Jul 14 04:04	0°♁		min. Earth dist.	1608 Aug 05 03:04	10°≈45'44	0.37560 AU
	1603 Aug 29 05:25	0°♁		direct	1608 Sep 02 19:08	6°≈05'37	
	1603 Oct 16 23:56	0°♁			1608 Nov 10 09:14	0°♁	
	1603 Dec 09 17:25	0°♁		asc. node	1608 Dec 29 01:16	0°♁	
retrograde	1604 Mar 01 12:47	26°♁59'05			1609 Jan 07 02:06	5°♁52'46	
opposition	1604 Apr 08 05:59	18°♁37'07	2°18'24		1609 Feb 12 18:01	0°♁	
greatest brilliancy	1604 Apr 09 00:31	18°♁19'33	-1.6m		1609 Mar 30 12:40	0°♁	
min. Earth dist.	1604 Apr 14 13:42	16°♁13'35	0.59985 AU		1609 May 16 02:27	0°♁	
direct	1604 May 19 04:00	8°♁48'16		evening set	1609 Jul 02 08:21	0°♁	
desc. node	1604 Jun 04 09:07	10°♁24'53			1609 Jul 17 06:45	9°♁27'01	
	1604 Jul 24 22:42	0°♁		max. Earth dist.	1609 Aug 18 16:20	0°♁	
	1604 Sep 12 01:08	0°♁			1609 Aug 25 01:01	4°♁03'08	2.67216 AU
	1604 Oct 24 03:22	0°♁		conjunction	1609 Sep 01 03:15	8°♁34'50	1°04'09
	1604 Dec 02 12:28	0°≈		minimum elong	1609 Sep 01 04:01	8°♁36'03	1°04'09
	1605 Jan 10 01:17	0°♁			1609 Oct 04 10:06	0°♁	
	1605 Feb 17 23:31	0°♁		morning rise	1609 Oct 15 12:20	7°♁12'49	
	1605 Mar 30 04:39	0°♁			1609 Nov 19 02:17	0°♁	
asc. node	1605 Apr 04 04:19	3°♁37'53			1610 Jan 02 12:47	0°♁	
evening set	1605 Apr 20 15:35	15°♁28'57		desc. node	1610 Jan 25 06:57	15°♁40'49	
	1605 May 11 06:03	0°♁			1610 Feb 14 19:48	0°♁	
conjunction	1605 Jun 15 06:54	23°♁57'40	0°41'04		1610 Mar 29 06:17	0°≈	
minimum elong	1605 Jun 15 05:17	23°♁54'57	0°41'03		1610 May 10 14:34	0°♁	
	1605 Jun 24 07:29	0°♁			1610 Jun 24 00:48	0°♁	
max. Earth dist.	1605 Jul 08 14:57	9°♁28'29	2.60378 AU	retrograde	1610 Aug 23 01:05	0°♁	
morning rise	1605 Aug 04 15:53	27°♁05'01			1610 Sep 13 19:29	3°♁15'14	
	1605 Aug 09 04:35	0°♁		min. Earth dist.	1610 Oct 05 05:27	30°♁	
	1605 Sep 25 13:08	0°♁		greatest brilliancy	1610 Oct 11 03:00	28°♁11'38	0.43770 AU
	1605 Nov 13 08:18	0°♁		opposition	1610 Oct 18 05:16	25°♁48'48	-2.5m
	1606 Jan 03 17:21	0°♁		direct	1610 Oct 19 02:19	25°♁31'03	-2°-9'-24
					1610 Nov 19 23:39	19°♁13'12	

asc. node	1610 Nov 25 01:09	19° Υ 23'23		conjunction	1616 Jan 14 14:16	23° C 57'14	-1°00'-18
	1611 Jan 04 04:52	0° C		minimum elong	1616 Jan 14 12:27	23° C 53'41	1°00'18
	1611 Mar 04 08:50	0° II			1616 Jan 22 07:37	0° \approx	
	1611 Apr 24 14:37	0° C			1616 Feb 29 09:41	0° K	
	1611 Jun 13 01:17	0° Ω		morning rise	1616 Mar 22 22:02	17° K 41'05	
	1611 Jul 31 08:18	0° M			1616 Apr 07 17:59	0° Υ	
evening set	1611 Aug 23 09:55	14° M 38'21			1616 May 17 05:12	0° C	
	1611 Sep 16 04:47	0° C			1616 Jun 27 14:56	0° II	
max. Earth dist.	1611 Sep 18 02:43	1° C 14'57	2.62523 AU	asc. node	1616 Jul 16 22:44	13° II 23'48	
					1616 Aug 10 19:19	0° C	
conjunction	1611 Oct 08 07:15	14° C 33'10	0°36'25		1616 Sep 28 07:26	0° Ω	
minimum elong	1611 Oct 08 08:20	14° C 34'58	0°36'24		1616 Nov 27 19:21	0° M	
	1611 Oct 31 06:41	0° M		retrograde	1617 Jan 08 21:57	9° M 00'57	
morning rise	1611 Nov 23 18:09	16° M 08'43			1617 Feb 16 12:25	30° R Ω	
desc. node	1611 Dec 13 05:53	29° M 50'07		opposition	1617 Feb 17 21:13	29° Ω 27'28	4°26'46
	1611 Dec 13 11:28	0° K		greatest brilliancy	1617 Feb 18 01:17	29° Ω 23'25	-1.2m
	1612 Jan 23 23:23	0° C		min. Earth dist.	1617 Feb 18 22:45	29° Ω 02'07	0.67685 AU
	1612 Mar 04 03:36	0° \approx		direct	1617 Mar 31 00:11	19° Ω 32'42	
	1612 Apr 12 14:52	0° K			1617 May 16 12:27	0° M	
	1612 May 22 07:05	0° Υ			1617 Jul 15 10:26	0° C	
	1612 Jul 02 15:28	0° C		desc. node	1617 Aug 04 02:19	11° C 48'29	
	1612 Aug 17 21:52	0° II			1617 Sep 01 10:12	0° M	
asc. node	1612 Oct 11 23:19	24° II 12'36			1617 Oct 14 14:48	0° K	
retrograde	1612 Oct 30 05:20	26° II 24'57			1617 Nov 23 21:38	0° C	
min. Earth dist.	1612 Dec 01 18:49	19° II 15'46	0.56662 AU		1618 Jan 01 11:47	0° \approx	
greatest brilliancy	1612 Dec 07 10:04	17° II 04'03	-1.8m	evening set	1618 Jan 18 13:15	13° \approx 27'56	
opposition	1612 Dec 08 07:48	16° II 42'51	2°32'06		1618 Feb 08 11:05	0° K	
direct	1613 Jan 13 16:40	8° II 27'30			1618 Mar 18 19:01	0° Υ	
	1613 Mar 25 23:26	0° C					
	1613 May 21 08:26	0° Ω		conjunction	1618 Mar 27 13:19	6° Υ 45'01	0°-41'-38
	1613 Jul 11 01:08	0° M		minimum elong	1618 Mar 27 16:23	6° Υ 50'53	0°41'37
	1613 Aug 27 16:59	0° C			1618 Apr 27 07:52	0° C	
evening set	1613 Sep 30 12:34	22° C 21'49		max. Earth dist.	1618 May 17 17:03	14° C 57'37	2.43791 AU
	1613 Oct 11 18:00	0° M		morning rise	1618 Jun 01 04:25	25° C 21'39	
max. Earth dist.	1613 Oct 16 17:32	3° M 25'24	2.52831 AU	asc. node	1618 Jun 03 21:08	27° C 16'37	
desc. node	1613 Oct 30 04:39	12° M 46'58			1618 Jun 07 17:30	0° II	
					1618 Jul 21 10:09	0° C	
conjunction	1613 Nov 18 22:55	26° M 48'28	0°-11'-59		1618 Sep 05 18:20	0° Ω	
minimum elong	1613 Nov 18 22:22	26° M 47'28	0°11'59		1618 Oct 25 17:06	0° M	
behind sun begin	1613 Nov 18 07:29	26° M 20'47			1618 Dec 23 20:52	0° C	
behind sun end	1613 Nov 19 13:14	27° M 14'10		retrograde	1619 Feb 14 12:33	12° C 54'24	
	1613 Nov 23 09:20	0° K		opposition	1619 Mar 25 03:05	4° C 06'50	3°12'58
	1614 Jan 03 00:34	0° C		greatest brilliancy	1619 Mar 25 21:30	3° C 49'03	-1.4m
morning rise	1614 Jan 11 21:16	6° C 42'22		min. Earth dist.	1619 Mar 30 00:51	2° C 13'09	0.63404 AU
	1614 Feb 11 05:32	0° \approx			1619 Apr 05 00:08	30° R M	
	1614 Mar 21 17:55	0° K		direct	1619 May 05 11:31	24° M 07'36	
	1614 Apr 29 10:08	0° Υ			1619 Jun 07 05:03	0° C	
	1614 Jun 08 05:30	0° C		desc. node	1619 Jun 22 00:33	5° C 35'14	
	1614 Jul 20 09:18	0° II			1619 Aug 07 19:18	0° M	
asc. node	1614 Aug 29 23:14	26° II 20'12			1619 Sep 22 17:13	0° K	
	1614 Sep 05 01:18	0° C			1619 Nov 02 21:42	0° C	
	1614 Nov 06 06:30	0° Ω			1619 Dec 11 21:06	0° \approx	
retrograde	1614 Dec 06 11:08	5° Ω 14'12			1620 Jan 19 03:04	0° K	
	1615 Jan 03 11:35	30° R C			1620 Feb 26 18:42	0° Υ	
min. Earth dist.	1615 Jan 12 20:07	26° C 25'43	0.65343 AU	evening set	1620 Mar 28 13:38	23° Υ 14'44	
opposition	1615 Jan 15 16:02	25° C 17'44	4°19'21		1620 Apr 06 16:50	0° C	
greatest brilliancy	1615 Jan 15 01:09	25° C 32'39	-1.3m	asc. node	1620 Apr 20 20:36	10° C 19'46	
direct	1615 Feb 24 02:10	15° C 56'44			1620 May 18 11:28	0° II	
	1615 Apr 20 19:04	0° Ω					
	1615 Jun 19 02:31	0° M		conjunction	1620 May 27 04:44	6° II 04'47	0°22'16
	1615 Aug 08 02:32	0° C		minimum elong	1620 May 27 03:30	6° II 02'40	0°22'14
desc. node	1615 Sep 17 03:26	26° C 09'49		max. Earth dist.	1620 Jun 27 06:12	27° II 16'15	2.56536 AU
	1615 Sep 22 19:03	0° M			1620 Jul 01 07:59	0° C	
	1615 Nov 04 08:36	0° K		morning rise	1620 Jul 19 17:14	12° C 10'42	
evening set	1615 Nov 16 18:42	9° K 06'11			1620 Aug 16 04:28	0° Ω	
max. Earth dist.	1615 Dec 08 12:33	25° K 22'59	2.40087 AU		1620 Oct 02 21:27	0° M	
	1615 Dec 14 14:18	0° C			1620 Nov 21 21:38	0° C	

	1621 Jan 16 07:39	0°♌			1626 May 03 01:36	0°♄		
retrograde	1621 Mar 30 10:23	22°♌12'05			1626 Jun 20 10:05	0°♌		
opposition	1621 May 05 05:18	14°♌43'23	0°10'44		1626 Aug 07 05:44	0°♍		
greatest brilliancy	1621 Apr 01 12:16	22°♌10'30	-2.2m	evening set	1626 Aug 09 01:17	1°♍08'57		
desc. node	1621 May 08 23:56	13°♌21'46		max. Earth dist.	1626 Sep 08 13:14	20°♍38'19	2.64979 AU	
min. Earth dist.	1621 May 13 07:45	11°♌49'15	0.52978 AU		1626 Sep 22 23:52	0°♎		
direct	1621 Jun 13 13:56	5°♌36'00						
	1621 Aug 22 14:39	0°♏		conjunction	1626 Sep 23 13:48	0°♎22'42	0°49'54	
	1621 Oct 07 18:12	0°♄		minimum elong	1626 Sep 23 14:56	0°♎24'34	0°49'53	
	1621 Nov 17 15:25	0°♋		morning rise	1626 Nov 07 17:48	0°♌20'08		
	1621 Dec 27 01:20	0°♋			1626 Nov 07 05:53	0°♌		
	1622 Feb 04 16:25	0°♐			1626 Dec 20 20:02	0°♏		
asc. node	1622 Mar 08 19:12	23°♐41'20		desc. node	1626 Dec 29 21:01	6°♏21'49		
	1622 Mar 17 12:36	0°♉			1627 Jan 31 21:14	0°♄		
	1622 Apr 29 03:09	0°♈			1627 Mar 13 17:05	0°♋		
evening set	1622 May 21 20:44	15°♈29'09			1627 Apr 22 21:32	0°♋		
	1622 Jun 12 14:28	0°♄			1627 Jun 02 11:53	0°♐		
					1627 Jul 15 15:50	0°♉		
conjunction	1622 Jul 11 18:23	19°♄06'03	1°00'38		1627 Sep 07 21:14	0°♈		
minimum elong	1622 Jul 11 17:13	19°♄04'10	1°00'39	retrograde	1627 Oct 14 12:43	8°♈18'53		
max. Earth dist.	1622 Jul 24 11:51	27°♄19'44	2.64757 AU	asc. node	1627 Oct 29 16:52	6°♈37'48		
	1622 Jul 28 15:26	0°♌		min. Earth dist.	1627 Nov 13 22:23	1°♈58'09	0.51801 AU	
morning rise	1622 Aug 27 18:14	19°♌14'50			1627 Nov 19 04:18	30°♈		
	1622 Sep 13 17:10	0°♍		opposition	1627 Nov 21 14:30	29°♈05'04	1°08'50	
	1622 Oct 31 09:15	0°♎		greatest brilliancy	1627 Nov 21 01:39	29°♈17'08	-2.0m	
	1622 Dec 18 16:24	0°♌		direct	1627 Dec 26 08:18	21°♈28'47		
desc. node	1623 Feb 06 14:20	0°♏			1628 Feb 04 18:23	0°♈		
	1623 Mar 26 23:56	26°♏24'34			1628 Apr 07 11:24	0°♄		
	1623 Apr 03 10:48	0°♄			1628 May 29 22:46	0°♌		
retrograde	1623 Jun 03 03:33	17°♄12'30			1628 Jul 18 10:30	0°♍		
opposition	1623 Jul 04 08:32	11°♄48'07	-5°-20'-15		1628 Sep 03 16:43	0°♎		
greatest brilliancy	1623 Jul 05 20:14	11°♄22'13	-2.7m	evening set	1628 Sep 14 18:21	7°♎14'17		
min. Earth dist.	1623 Jul 10 11:57	10°♄01'57	0.40236 AU	max. Earth dist.	1628 Oct 04 01:48	20°♎04'49	2.57162 AU	
direct	1623 Aug 06 07:55	5°♄35'06			1628 Oct 18 17:03	0°♌		
	1623 Oct 13 09:22	0°♋						
	1623 Nov 28 20:02	0°♋		conjunction	1628 Nov 01 06:58	9°♌21'26	0°08'42	
	1624 Jan 11 01:47	0°♐		minimum elong	1628 Nov 01 07:18	9°♌22'02	0°08'42	
asc. node	1624 Jan 24 17:06	9°♐30'11		behind sun begin	1628 Oct 31 13:47	8°♌51'37		
	1624 Feb 23 08:56	0°♉		behind sun end	1628 Nov 02 00:50	9°♌52'28		
	1624 Apr 07 18:34	0°♈		desc. node	1628 Nov 15 20:20	19°♌32'56		
	1624 May 23 12:16	0°♄			1628 Nov 30 12:37	0°♏		
evening set	1624 Jul 02 09:11	25°♄36'11		morning rise	1628 Dec 21 09:31	15°♏08'53		
	1624 Jul 09 06:42	0°♌			1629 Jan 10 10:35	0°♄		
max. Earth dist.	1624 Aug 16 00:08	24°♌00'06	2.67603 AU		1629 Feb 18 23:00	0°♋		
					1629 Mar 29 18:09	0°♋		
conjunction	1624 Aug 17 23:55	25°♌16'07	1°08'22		1629 May 07 16:41	0°♐		
minimum elong	1624 Aug 18 00:13	25°♌16'36	1°08'22		1629 Jun 16 20:21	0°♉		
	1624 Aug 25 10:18	0°♍			1629 Jul 29 19:03	0°♈		
morning rise	1624 Oct 01 11:52	23°♍41'43		asc. node	1629 Sep 15 15:09	29°♈03'52		
	1624 Oct 11 06:58	0°♎			1629 Sep 17 09:15	0°♄		
	1624 Nov 26 10:06	0°♌		retrograde	1629 Nov 22 15:13	21°♄15'54		
desc. node	1625 Jan 10 17:06	0°♏		min. Earth dist.	1629 Dec 28 06:23	13°♄02'12	0.62661 AU	
	1625 Feb 10 22:35	20°♏57'33		opposition	1630 Jan 01 14:16	11°♄18'39	3°52'21	
	1625 Feb 24 08:14	0°♄		greatest brilliancy	1629 Dec 31 17:54	11°♄38'59	-1.5m	
	1625 Apr 09 19:09	0°♋		direct	1630 Feb 08 23:33	2°♄18'39		
	1625 May 25 17:23	0°♋			1630 May 04 13:19	0°♌		
	1625 Jul 22 06:40	0°♐			1630 Jun 27 20:22	0°♍		
retrograde	1625 Aug 20 15:02	5°♐33'03			1630 Aug 15 15:52	0°♎		
min. Earth dist.	1625 Sep 16 03:14	1°♐04'14	0.39419 AU	desc. node	1630 Sep 30 00:23	0°♌		
	1625 Sep 19 18:46	30°♐		evening set	1630 Oct 03 18:59	2°♌35'21		
greatest brilliancy	1625 Sep 21 00:26	29°♐37'59	-2.7m		1630 Oct 27 20:42	19°♌25'43		
opposition	1625 Sep 22 05:06	29°♐16'44	-4°-48'-20		1630 Nov 11 13:48	0°♏		
direct	1625 Oct 22 08:33	23°♐54'39		max. Earth dist.	1630 Nov 11 14:30	0°♏01'18	2.45106 AU	
	1625 Nov 23 14:45	0°♐						
asc. node	1625 Dec 11 17:07	7°♐16'54		conjunction	1630 Dec 21 03:47	29°♏24'20	0°-44'-49	
	1626 Jan 24 01:45	0°♉		minimum elong	1630 Dec 21 01:40	29°♏20'19	0°44'50	
	1626 Mar 15 08:28	0°♈			1630 Dec 21 22:35	0°♄		

	1631 Jan 29 19:43	0°♁		opposition	1636 Apr 17 11:40	27°♁52'54	1°38'02
morning rise	1631 Feb 21 18:57	18°♁00'40		greatest brilliancy	1636 Apr 18 03:17	27°♁38'20	-1.7m
greatest brilliancy	1631 Feb 23 08:23	19°♁14'15	1.2m	min. Earth dist.	1636 Apr 24 12:47	25°♁15'22	0.57727 AU
	1631 Mar 09 00:48	0°♁		desc. node	1636 May 25 15:52	18°♁16'33	
	1631 Apr 16 10:52	0°♁		direct	1636 May 28 00:16	18°♁14'22	
	1631 May 25 23:18	0°♁			1636 Jul 13 19:20	0°♁	
asc. node	1631 Jul 06 12:09	0°♁			1636 Sep 05 05:09	0°♁	
	1631 Aug 03 14:12	19°♁09'38			1636 Oct 18 06:23	0°♁	
	1631 Aug 20 05:13	0°♁			1636 Nov 27 01:02	0°♁	
	1631 Oct 09 20:25	0°♁			1637 Jan 04 19:13	0°♁	
retrograde	1631 Dec 27 12:59	26°♁18'16			1637 Feb 12 21:36	0°♁	
opposition	1632 Feb 05 17:49	16°♁32'57	4°33'31	asc. node	1637 Mar 25 10:44	0°♁07'55	
min. Earth dist.	1632 Feb 05 06:53	16°♁43'52	0.67558 AU		1637 Mar 25 06:23	0°♁	
greatest brilliancy	1632 Feb 05 14:17	16°♁36'29	-1.2m	evening set	1637 May 02 14:52	27°♁19'57	
direct	1632 Mar 17 08:39	6°♁48'11			1637 May 06 10:50	0°♁	
	1632 May 31 16:28	0°♁			1637 Jun 19 14:35	0°♁	
	1632 Jul 24 13:55	0°♁					
desc. node	1632 Aug 20 17:37	17°♁02'24		conjunction	1637 Jun 25 08:31	3°♁48'57	0°49'41
	1632 Sep 09 08:38	0°♁		minimum elong	1637 Jun 25 06:58	3°♁46'22	0°49'41
	1632 Oct 22 05:05	0°♁		max. Earth dist.	1637 Jul 14 18:13	16°♁33'54	2.62175 AU
	1632 Dec 01 10:27	0°♁			1637 Aug 04 11:57	0°♁	
evening set	1632 Dec 22 11:40	16°♁15'00		morning rise	1637 Aug 13 07:42	5°♁39'44	
	1633 Jan 09 01:09	0°♁			1637 Sep 20 16:53	0°♁	
	1633 Feb 16 00:44	0°♁			1637 Nov 08 00:00	0°♁	
					1637 Dec 27 22:51	0°♁	
conjunction	1633 Feb 26 16:11	8°♁23'29	-1°00'-9		1638 Feb 20 16:22	0°♁	
minimum elong	1633 Feb 26 18:31	8°♁28'06	1°00'09	desc. node	1638 Apr 12 14:37	20°♁03'31	
	1633 Mar 26 07:53	0°♁		retrograde	1638 May 05 16:08	23°♁01'34	
max. Earth dist.	1633 Apr 11 23:43	12°♁48'30	2.38671 AU	opposition	1638 Jun 07 17:14	16°♁45'31	-2°-59'-46
	1633 May 04 18:55	0°♁		greatest brilliancy	1638 Jun 08 23:42	16°♁20'50	-2.4m
morning rise	1633 May 07 11:55	2°♁00'49		min. Earth dist.	1638 Jun 15 20:49	14°♁07'53	0.44896 AU
	1633 Jun 15 02:43	0°♁		direct	1638 Jul 13 20:06	9°♁08'10	
asc. node	1633 Jun 20 13:54	3°♁50'52			1638 Sep 13 17:55	0°♁	
	1633 Jul 28 20:45	0°♁			1638 Oct 30 07:44	0°♁	
	1633 Sep 13 16:36	0°♁			1638 Dec 11 02:05	0°♁	
	1633 Nov 04 15:08	0°♁			1639 Jan 21 04:48	0°♁	
retrograde	1634 Jan 30 16:32	29°♁35'36		asc. node	1639 Feb 10 10:23	14°♁34'47	
opposition	1634 Mar 10 23:41	20°♁27'05	3°51'50		1639 Mar 04 03:59	0°♁	
greatest brilliancy	1634 Mar 11 14:03	20°♁13'00	-1.3m		1639 Apr 16 15:26	0°♁	
min. Earth dist.	1634 Mar 14 10:01	19°♁06'29	0.65871 AU		1639 May 31 18:05	0°♁	
direct	1634 Apr 21 11:12	10°♁25'07		evening set	1639 Jun 17 18:06	11°♁04'16	
	1634 Jun 26 13:46	0°♁			1639 Jul 17 03:32	0°♁	
desc. node	1634 Jul 08 17:09	6°♁14'46					
	1634 Aug 18 01:14	0°♁		conjunction	1639 Aug 04 14:50	11°♁48'12	1°08'42
	1634 Oct 01 10:36	0°♁		minimum elong	1639 Aug 04 14:35	11°♁47'48	1°08'42
	1634 Nov 11 02:56	0°♁		max. Earth dist.	1639 Aug 08 00:39	13°♁58'37	2.67129 AU
	1634 Dec 19 20:46	0°♁			1639 Sep 02 04:41	0°♁	
	1635 Jan 26 22:32	0°♁		morning rise	1639 Sep 18 17:01	10°♁30'31	
evening set	1635 Mar 03 15:44	27°♁52'47			1639 Oct 19 06:28	0°♁	
	1635 Mar 06 09:45	0°♁			1639 Dec 05 00:27	0°♁	
	1635 Apr 15 02:57	0°♁			1640 Jan 20 12:16	0°♁	
				desc. node	1640 Feb 28 14:08	25°♁06'39	
conjunction	1635 May 06 15:34	15°♁43'14	0°-1'-11		1640 Mar 07 06:32	0°♁	
minimum elong	1635 May 06 15:40	15°♁43'24	0°01'12		1640 Apr 24 22:07	0°♁	
behind sun begin	1635 May 05 14:21	14°♁57'45			1640 Jun 25 21:28	0°♁	
behind sun end	1635 May 07 16:59	16°♁29'00		retrograde	1640 Jul 22 10:32	4°♁21'26	
asc. node	1635 May 08 11:52	17°♁02'59			1640 Aug 19 00:35	30°♁	
	1635 May 26 16:34	0°♁		min. Earth dist.	1640 Aug 20 09:35	29°♁38'00	0.37347 AU
max. Earth dist.	1635 Jun 15 00:11	13°♁26'32	2.51976 AU	opposition	1640 Aug 21 22:53	29°♁13'03	-6°-42'-11
morning rise	1635 Jul 03 06:45	25°♁53'03		greatest brilliancy	1640 Aug 21 15:43	29°♁17'51	-2.9m
	1635 Jul 09 09:50	0°♁		direct	1640 Sep 20 11:48	24°♁18'32	
	1635 Aug 24 07:50	0°♁			1640 Oct 21 02:28	0°♁	
	1635 Oct 11 14:08	0°♁			1640 Dec 19 18:09	0°♁	
	1635 Dec 02 12:26	0°♁		asc. node	1640 Dec 28 09:27	5°♁12'57	
	1636 Feb 06 08:33	0°♁			1641 Feb 05 22:32	0°♁	
retrograde	1636 Mar 11 08:31	5°♁58'04			1641 Mar 24 19:54	0°♁	
	1636 Apr 11 15:56	30°♁			1641 May 11 00:07	0°♁	

	1641 Jun 27 13:46	0°♁			1646 Apr 24 07:02	0°♃		
evening set	1641 Jul 25 15:32	17°♁42'19			1646 Jun 02 22:48	0°♄		
	1641 Aug 14 01:11	0°♅			1646 Jul 14 18:41	0°♆		
max. Earth dist.	1641 Aug 30 08:49	10°♅24'00	2.66644 AU	asc. node	1646 Aug 20 06:13	24°♆14'54		
					1646 Aug 29 10:48	0°♇		
conjunction	1641 Sep 09 06:20	16°♅44'38	0°59'56		1646 Oct 23 16:32	0°♁		
minimum elong	1641 Sep 09 07:17	16°♅46'11	0°59'56	retrograde	1646 Dec 14 05:02	13°♁20'12		
	1641 Sep 29 18:55	0°♂		min. Earth dist.	1647 Jan 21 11:40	4°♁14'05	0.66420 AU	
morning rise	1641 Oct 23 18:43	15°♂42'01		opposition	1647 Jan 23 11:01	3°♁26'42	4°28'19	
	1641 Nov 14 07:17	0°♆		greatest brilliancy	1647 Jan 23 00:00	3°♁37'44	-1.3m	
	1641 Dec 28 10:06	0°♄			1647 Feb 01 07:49	30°♁♄		
desc. node	1642 Jan 15 12:40	12°♄35'18		direct	1647 Mar 04 08:35	23°♁56'02		
	1642 Feb 09 05:10	0°♃			1647 Apr 07 18:02	0°♁		
	1642 Mar 22 23:13	0°♂			1647 Jun 12 18:56	0°♅		
	1642 May 03 07:03	0°♄			1647 Aug 02 21:44	0°♂		
	1642 Jun 14 16:16	0°♃		desc. node	1647 Sep 07 10:10	22°♂54'51		
	1642 Aug 01 20:11	0°♄			1647 Sep 17 23:01	0°♆		
retrograde	1642 Sep 25 17:23	17°♄17'57			1647 Oct 30 15:22	0°♄		
min. Earth dist.	1642 Oct 24 00:38	11°♄48'14	0.46581 AU	evening set	1647 Nov 29 03:00	21°♄50'15		
opposition	1642 Nov 01 05:30	8°♄54'18	0°-47'-17		1647 Dec 09 21:10	0°♃		
greatest brilliancy	1642 Oct 31 20:39	9°♄02'07	-2.3m	max. Earth dist.	1648 Jan 02 22:58	18°♃34'27	2.37841 AU	
asc. node	1642 Nov 15 08:16	4°♄30'04			1648 Jan 17 13:33	0°♂		
direct	1642 Dec 04 02:55	2°♄06'19						
	1643 Feb 23 23:15	0°♆		conjunction	1648 Jan 29 18:42	9°♂36'57	-1°-4'-28	
	1643 Apr 18 14:38	0°♇		minimum elong	1648 Jan 29 18:03	9°♂35'40	1°04'28	
	1643 Jun 07 21:59	0°♁			1648 Feb 24 14:16	0°♄		
	1643 Jul 26 13:57	0°♅			1648 Apr 02 21:18	0°♃		
evening set	1643 Aug 31 18:53	23°♅00'28		morning rise	1648 Apr 09 01:50	4°♃46'57		
	1643 Sep 11 13:46	0°♂			1648 May 12 07:24	0°♄		
max. Earth dist.	1643 Sep 24 01:21	8°♂10'45	2.60803 AU		1648 Jun 22 14:52	0°♆		
				asc. node	1648 Jul 07 04:54	10°♆11'10		
conjunction	1643 Oct 17 02:33	23°♂32'42	0°27'04		1648 Aug 05 13:13	0°♇		
minimum elong	1643 Oct 17 03:28	23°♂34'14	0°27'02		1648 Sep 22 05:06	0°♁		
	1643 Oct 26 15:09	0°♆			1648 Nov 16 23:05	0°♅		
morning rise	1643 Dec 03 14:41	26°♆23'06		retrograde	1649 Jan 16 17:10	16°♆45'46		
desc. node	1643 Dec 03 11:31	26°♆17'30		opposition	1649 Feb 25 12:04	7°♆20'17	4°17'19	
	1643 Dec 08 16:48	0°♄		greatest brilliancy	1649 Feb 25 20:11	7°♆12'16	-1.2m	
	1644 Jan 18 23:40	0°♃		min. Earth dist.	1649 Feb 27 10:11	6°♆34'42	0.67329 AU	
	1644 Feb 27 22:03	0°♂			1649 Mar 18 11:55	30°♁♁		
	1644 Apr 07 02:50	0°♄		direct	1649 Apr 07 19:45	27°♁21'36		
	1644 May 16 11:09	0°♃			1649 Apr 29 12:55	0°♅		
	1644 Jun 26 05:23	0°♄			1649 Jul 08 19:24	0°♂		
	1644 Aug 09 17:07	0°♆		desc. node	1649 Jul 25 08:26	9°♂32'38		
asc. node	1644 Oct 02 07:43	28°♆13'54			1649 Aug 27 00:08	0°♆		
	1644 Oct 07 02:28	0°♇			1649 Oct 09 13:59	0°♄		
retrograde	1644 Nov 08 01:04	6°♇09'30			1649 Nov 19 00:08	0°♃		
	1644 Dec 08 01:44	30°♁♁			1649 Dec 27 15:39	0°♂		
min. Earth dist.	1644 Dec 11 17:49	28°♆35'54	0.59029 AU	evening set	1650 Feb 03 11:07	29°♂51'18		
opposition	1644 Dec 17 12:39	26°♆19'10	3°07'49		1650 Feb 03 15:32	0°♄		
greatest brilliancy	1644 Dec 16 13:51	26°♆41'40	-1.6m	greatest brilliancy	1650 Feb 14 18:26	8°♄45'38	1.2m	
direct	1645 Jan 23 16:14	17°♆45'58			1650 Mar 13 23:56	0°♃		
	1645 Mar 15 10:00	0°♇						
	1645 May 15 04:11	0°♁		conjunction	1650 Apr 11 20:41	22°♃00'38	0°-27'-25	
	1645 Jul 05 21:43	0°♅		minimum elong	1650 Apr 11 22:52	22°♃04'44	0°27'25	
	1645 Aug 22 22:44	0°♂			1650 Apr 22 13:22	0°♄		
	1645 Oct 07 02:32	0°♆		asc. node	1650 May 25 04:52	23°♄46'47		
evening set	1645 Oct 09 23:56	1°♆58'58		max. Earth dist.	1650 May 29 13:48	26°♄53'36	2.46772 AU	
desc. node	1645 Oct 20 11:20	9°♆13'49			1650 Jun 02 23:04	0°♆		
max. Earth dist.	1645 Oct 24 21:51	12°♆19'55	2.50163 AU	morning rise	1650 Jun 13 14:29	7°♆27'58		
	1645 Nov 18 17:27	0°♄			1650 Jul 16 14:22	0°♇		
					1650 Aug 31 16:36	0°♁		
conjunction	1645 Nov 29 21:24	8°♄07'41	0°-24'-19		1650 Oct 19 19:55	0°♅		
minimum elong	1645 Nov 29 20:13	8°♄05'30	0°24'18		1650 Dec 14 04:19	0°♂		
	1645 Dec 29 06:22	0°♃		retrograde	1651 Feb 23 11:10	21°♂17'22		
morning rise	1646 Jan 25 14:36	20°♃54'14		opposition	1651 Apr 02 15:02	12°♂43'21	2°43'12	
	1646 Feb 06 08:25	0°♂		greatest brilliancy	1651 Apr 03 10:03	12°♂25'10	-1.5m	
	1646 Mar 16 17:45	0°♄		min. Earth dist.	1651 Apr 08 08:20	10°♂32'12	0.61634 AU	

direct	1651 May 13 19:21	2°♁48'31		evening set	1656 Jul 10 23:31	4°♁03'37	
desc. node	1651 Jun 12 07:14	7°♁44'46			1656 Aug 20 19:52	0°♁	
	1651 Jul 31 04:51	0°♁		max. Earth dist.	1656 Aug 21 05:26	0°♁15'14	2.67494 AU
	1651 Sep 16 18:23	0°♁					
	1651 Oct 28 11:04	0°♁		conjunction	1656 Aug 26 02:42	3°♁21'59	1°06'21
	1651 Dec 06 16:03	0°♁		minimum elong	1656 Aug 26 03:17	3°♁22'55	1°06'22
	1652 Jan 14 01:24	0°♁			1656 Oct 06 15:10	0°♁	
	1652 Feb 21 19:50	0°♁		morning rise	1656 Oct 09 11:47	1°♁50'59	
	1652 Apr 01 20:44	0°♁			1656 Nov 21 12:20	0°♁	
evening set	1652 Apr 10 23:28	6°♁39'12		desc. node	1657 Jan 05 07:50	0°♁	
asc. node	1652 Apr 11 03:48	6°♁47'04			1657 Feb 18 03:51	0°♁	
	1652 May 13 17:38	0°♁			1657 Apr 02 08:41	0°♁	
					1657 May 15 20:43	0°♁	
conjunction	1652 Jun 07 07:34	16°♁57'45	0°33'42		1657 Jul 02 01:33	0°♁	
minimum elong	1652 Jun 07 06:01	16°♁55'07	0°33'41		1657 Sep 03 19:48	22°♁11'57	
	1652 Jun 26 15:32	0°♁		retrograde	1657 Sep 30 13:55	17°♁27'02	0.41650 AU
max. Earth dist.	1652 Jul 03 22:41	4°♁51'34	2.58753 AU	min. Earth dist.	1657 Oct 07 23:38	15°♁05'26	-3°-17'-34
morning rise	1652 Jul 28 23:38	21°♁17'40		opposition	1657 Oct 06 20:26	15°♁27'16	-2.6m
	1652 Aug 11 10:55	0°♁		greatest brilliancy	1657 Nov 08 01:22	9°♁13'09	
	1652 Sep 27 21:49	0°♁		direct	1657 Dec 02 00:46	12°♁41'50	
	1652 Nov 16 03:11	0°♁		asc. node	1658 Jan 13 12:33	0°♁	
	1653 Jan 07 20:13	0°♁			1658 Mar 08 13:47	0°♁	
	1653 Mar 19 23:17	0°♁			1658 Apr 27 13:17	0°♁	
retrograde	1653 Apr 11 11:58	2°♁48'12			1658 Jun 15 11:25	0°♁	
desc. node	1653 Apr 29 06:25	0°♁49'07			1658 Aug 02 13:32	0°♁	
	1653 May 02 16:02	30°♁		evening set	1658 Aug 17 06:17	9°♁18'49	
opposition	1653 May 16 09:00	25°♁43'05	0°-51'-8	max. Earth dist.	1658 Sep 14 02:35	27°♁12'27	2.63725 AU
greatest brilliancy	1653 May 16 19:06	25°♁34'18	-2.1m		1658 Sep 18 09:41	0°♁	
min. Earth dist.	1653 May 24 19:01	22°♁47'16	0.50149 AU				
direct	1653 Jun 23 19:45	17°♁00'45		conjunction	1658 Oct 01 21:59	8°♁51'00	0°42'28
	1653 Aug 10 15:09	0°♁		minimum elong	1658 Oct 01 23:08	8°♁52'53	0°42'28
	1653 Sep 30 05:44	0°♁			1658 Nov 02 14:12	0°♁	
	1653 Nov 11 06:41	0°♁		morning rise	1658 Nov 16 16:57	9°♁37'15	
	1653 Dec 21 06:11	0°♁			1658 Dec 16 00:00	0°♁	
	1654 Jan 30 06:13	0°♁		desc. node	1658 Dec 20 03:56	2°♁56'33	
asc. node	1654 Feb 27 02:01	20°♁24'53			1659 Jan 26 18:10	0°♁	
	1654 Mar 12 09:31	0°♁			1659 Mar 08 05:22	0°♁	
	1654 Apr 24 05:36	0°♁			1659 Apr 16 23:25	0°♁	
evening set	1654 Jun 01 00:39	25°♁28'06			1659 May 26 23:11	0°♁	
	1654 Jun 07 21:06	0°♁			1659 Jul 07 20:49	0°♁	
					1659 Aug 25 01:08	0°♁	
conjunction	1654 Jul 20 16:07	27°♁51'29	1°04'53	asc. node	1659 Oct 19 22:42	19°♁15'50	
minimum elong	1654 Jul 20 15:16	27°♁50'08	1°04'53	retrograde	1659 Oct 24 07:19	19°♁23'53	
	1654 Jul 24 00:03	0°♁		min. Earth dist.	1659 Nov 24 21:39	12°♁35'47	0.54575 AU
max. Earth dist.	1654 Jul 29 22:59	3°♁49'20	2.65833 AU	opposition	1659 Dec 01 23:57	9°♁52'11	2°00'47
morning rise	1654 Sep 04 20:13	27°♁20'27		greatest brilliancy	1659 Dec 01 04:33	10°♁10'51	-1.9m
	1654 Sep 09 00:44	0°♁		direct	1660 Jan 06 16:33	1°♁52'58	
	1654 Oct 26 10:24	0°♁			1660 Mar 30 19:49	0°♁	
	1654 Dec 13 01:18	0°♁			1660 May 24 07:18	0°♁	
	1655 Jan 30 09:22	0°♁			1660 Jul 13 11:27	0°♁	
desc. node	1655 Mar 17 05:12	27°♁09'10			1660 Aug 30 00:05	0°♁	
	1655 Mar 22 06:43	0°♁		evening set	1660 Sep 23 15:13	16°♁11'34	
	1655 May 27 21:54	0°♁		max. Earth dist.	1660 Oct 11 01:45	27°♁56'52	2.54855 AU
retrograde	1655 Jun 21 02:33	3°♁23'40			1660 Oct 14 01:55	0°♁	
	1655 Jul 15 02:45	30°♁		desc. node	1660 Nov 06 02:50	15°♁58'11	
opposition	1655 Jul 21 09:52	28°♁19'58	-6°-23'-7	conjunction	1660 Nov 11 02:32	19°♁29'09	0°-3'-2
greatest brilliancy	1655 Jul 22 12:49	28°♁01'35	-2.8m	minimum elong	1660 Nov 11 02:22	19°♁28'51	0°03'04
min. Earth dist.	1655 Jul 25 08:52	27°♁15'16	0.38437 AU	behind sun begin	1660 Nov 10 05:34	18°♁52'08	
direct	1655 Aug 21 18:12	22°♁49'27		behind sun end	1660 Nov 11 23:10	20°♁05'37	
	1655 Sep 24 18:00	0°♁			1660 Nov 25 20:23	0°♁	
	1655 Nov 19 10:34	0°♁		morning rise	1661 Jan 02 03:34	27°♁22'52	
asc. node	1656 Jan 03 23:27	0°♁			1661 Jan 05 15:27	0°♁	
	1656 Jan 15 01:26	7°♁29'10			1661 Feb 14 00:16	0°♁	
	1656 Feb 17 09:25	0°♁			1661 Mar 24 15:39	0°♁	
	1656 Apr 02 10:41	0°♁			1661 May 02 09:51	0°♁	
	1656 May 18 14:04	0°♁					
	1656 Jul 04 13:59	0°♁					

	1661 Jun 11 07:19	0°♄			1666 Aug 11 17:00	0°♆		
	1661 Jul 23 15:52	0°♁			1666 Sep 25 23:23	0°♁		
asc. node	1661 Sep 05 22:22	28°♁08'08			1666 Nov 05 23:14	0°♁		
	1661 Sep 09 03:32	0°♁			1666 Dec 14 20:34	0°♁		
retrograde	1661 Nov 30 16:02	29°♁51'27			1667 Jan 22 00:29	0°♁		
min. Earth dist.	1662 Jan 06 07:05	21°♁17'35	0.64267 AU		1667 Mar 01 13:17	0°♁		
opposition	1662 Jan 09 18:45	19°♁53'54	4°10'09	evening set	1667 Mar 18 14:42	13°♁00'37		
greatest brilliancy	1662 Jan 09 01:08	20°♁11'32	-1.4m		1667 Apr 10 08:03	0°♁		
direct	1662 Feb 17 18:16	10°♁41'30		asc. node	1667 Apr 28 19:36	13°♁30'10		
	1662 Apr 26 05:54	0°♁						
	1662 Jun 22 03:16	0°♁		conjunction	1667 May 19 05:01	28°♁03'46	0°12'47	
	1662 Aug 10 15:53	0°♁		minimum elong	1667 May 19 04:13	28°♁02'21	0°12'48	
desc. node	1662 Sep 24 01:19	29°♁10'49		behind sun begin	1667 May 18 13:39	27°♁36'40		
	1662 Sep 25 06:12	0°♁		behind sun end	1667 May 19 18:46	28°♁28'00		
	1662 Nov 06 21:03	0°♁			1667 May 21 23:01	0°♁		
evening set	1662 Nov 07 20:35	0°♁42'44		max. Earth dist.	1667 Jun 22 20:28	22°♁01'20	2.54577 AU	
max. Earth dist.	1662 Nov 24 21:53	13°♁14'17	2.42264 AU		1667 Jul 04 16:36	0°♁		
	1662 Dec 17 04:58	0°♁		morning rise	1667 Jul 13 10:43	5°♁50'11		
					1667 Aug 19 12:15	0°♁		
conjunction	1663 Jan 03 12:43	13°♁16'48	0°-54'-37		1667 Oct 06 09:15	0°♁		
minimum elong	1663 Jan 03 10:31	13°♁12'34	0°54'38		1667 Nov 26 00:54	0°♁		
	1663 Jan 25 00:34	0°♁			1668 Jan 23 05:39	0°♁		
	1663 Mar 04 04:03	0°♁		retrograde	1668 Mar 21 22:08	15°♁27'07		
morning rise	1663 Mar 10 13:02	5°♁01'00		opposition	1668 Apr 27 07:57	7°♁41'15	0°50'31	
	1663 Apr 11 12:36	0°♁		greatest brilliancy	1668 Apr 27 17:28	7°♁32'33	-1.8m	
	1663 May 20 23:22	0°♁		min. Earth dist.	1668 May 05 00:11	4°♁52'51	0.55177 AU	
asc. node	1663 Jul 01 08:43	0°♁		desc. node	1668 May 15 21:44	1°♁20'52		
	1663 Jul 24 22:16	16°♁15'27			1668 May 21 09:25	30°♁		
	1663 Aug 14 15:41	0°♁		direct	1668 Jun 06 06:44	28°♁17'40		
	1663 Oct 02 18:18	0°♁			1668 Jun 22 14:46	0°♁		
	1663 Dec 08 03:30	0°♁			1668 Aug 28 08:47	0°♁		
retrograde	1664 Jan 04 05:00	4°♁05'10			1668 Oct 11 22:33	0°♁		
	1664 Jan 29 06:42	30°♁			1668 Nov 21 07:01	0°♁		
opposition	1664 Feb 13 07:22	24°♁26'04	4°30'55		1668 Dec 30 09:15	0°♁		
greatest brilliancy	1664 Feb 13 08:08	24°♁25'19	-1.2m		1669 Feb 07 17:31	0°♁		
min. Earth dist.	1664 Feb 13 17:01	24°♁16'28	0.67755 AU	asc. node	1669 Mar 15 18:44	26°♁42'56		
direct	1664 Mar 25 05:31	14°♁35'09			1669 Mar 20 07:18	0°♁		
	1664 May 22 18:41	0°♁			1669 May 01 15:53	0°♁		
	1664 Jul 18 17:21	0°♁		evening set	1669 May 13 19:24	8°♁21'30		
desc. node	1664 Aug 11 00:03	14°♁15'22			1669 Jun 14 22:28	0°♁		
	1664 Sep 04 05:32	0°♁						
	1664 Oct 17 08:03	0°♁		conjunction	1669 Jul 04 21:01	13°♁08'27	0°56'36	
	1664 Nov 26 15:07	0°♁		minimum elong	1669 Jul 04 19:40	13°♁06'14	0°56'36	
	1665 Jan 04 05:58	0°♁		max. Earth dist.	1669 Jul 20 13:21	23°♁20'38	2.63708 AU	
evening set	1665 Jan 06 10:51	1°♁44'02			1669 Jul 30 20:44	0°♁		
	1665 Feb 11 05:17	0°♁		morning rise	1669 Aug 21 16:05	13°♁57'46		
					1669 Sep 15 23:09	0°♁		
conjunction	1665 Mar 15 02:59	25°♁02'43	0°-50'-59		1669 Nov 02 20:47	0°♁		
minimum elong	1665 Mar 15 06:10	25°♁08'55	0°50'59		1669 Dec 21 18:44	0°♁		
	1665 Mar 21 12:09	0°♁			1670 Feb 11 07:06	0°♁		
	1665 Apr 29 23:10	0°♁		desc. node	1670 Apr 02 21:35	25°♁03'45		
max. Earth dist.	1665 May 05 19:08	4°♁19'40	2.41381 AU		1670 Apr 16 00:53	0°♁		
morning rise	1665 May 21 22:13	16°♁08'31		retrograde	1670 May 21 02:30	6°♁32'55		
asc. node	1665 Jun 10 20:29	0°♁24'37		opposition	1670 Jun 22 03:24	0°♁46'14	-4°-20'-28	
	1665 Jun 10 06:34	0°♁		greatest brilliancy	1670 Jun 23 15:57	0°♁18'17	-2.5m	
	1665 Jul 23 22:02	0°♁			1670 Jun 24 15:51	30°♁		
	1665 Sep 08 08:46	0°♁		min. Earth dist.	1670 Jun 29 11:44	28°♁32'29	0.42157 AU	
	1665 Oct 28 22:18	0°♁		direct	1670 Jul 26 13:29	23°♁54'43		
	1665 Dec 31 05:43	0°♁			1670 Aug 26 10:48	0°♁		
retrograde	1666 Feb 08 01:28	7°♁36'55			1670 Oct 21 03:45	0°♁		
	1666 Mar 15 12:48	30°♁			1670 Dec 03 22:03	0°♁		
opposition	1666 Mar 19 00:16	28°♁39'35	3°30'41		1671 Jan 15 00:30	0°♁		
greatest brilliancy	1666 Mar 19 17:11	28°♁23'08	-1.3m	asc. node	1671 Jan 31 16:38	11°♁49'44		
min. Earth dist.	1666 Mar 23 06:48	26°♁59'57	0.64628 AU		1671 Feb 26 14:45	0°♁		
direct	1666 Apr 29 11:12	18°♁38'12			1671 Apr 11 12:45	0°♁		
	1666 Jun 16 02:26	0°♁			1671 May 26 22:27	0°♁		
desc. node	1666 Jun 28 22:42	5°♁45'28		evening set	1671 Jun 26 19:36	19°♁57'17		

	1671 Jul 12 12:02	0°♁				1676 Jun 20 04:30	0°♄		
						1676 Aug 02 13:47	0°♁		
conjunction	1671 Aug 12 21:47	20°♁00'59	1°08'59	asc. node		1676 Sep 22 14:43	29°♁40'46		
minimum elong	1671 Aug 12 21:52	20°♁01'07	1°08'59			1676 Sep 23 06:32	0°♄		
max. Earth dist.	1671 Aug 13 06:15	20°♁14'27	2.67499 AU	retrograde		1676 Nov 16 13:06	15°♄25'34		
	1671 Aug 28 14:18	0°♁		min. Earth dist.		1676 Dec 21 08:02	7°♄28'44	0.61152 AU	
morning rise	1671 Sep 26 14:27	18°♁30'04		greatest brilliancy		1676 Dec 25 09:14	5°♄52'14	-1.5m	
	1671 Oct 14 13:07	0°♁		opposition		1676 Dec 26 07:15	5°♄30'20	3°36'14	
	1671 Nov 29 22:44	0°♁				1677 Jan 10 16:36	30°♁		
desc. node	1672 Jan 14 17:47	0°♁		direct		1677 Feb 02 03:41	26°♁41'25		
	1672 Feb 18 20:32	23°♁10'35				1677 Feb 26 14:10	0°♄		
	1672 Feb 29 04:28	0°♁				1677 May 08 10:21	0°♁		
	1672 Apr 15 01:24	0°♁				1677 Jun 30 13:32	0°♁		
	1672 Jun 03 07:22	0°♁				1677 Aug 18 01:59	0°♁		
retrograde	1672 Aug 08 12:37	22°♁35'24				1677 Oct 02 09:48	0°♁		
min. Earth dist.	1672 Sep 04 14:41	18°♁08'23	0.38121 AU	desc. node		1677 Oct 10 17:08	5°♁42'26		
opposition	1672 Sep 08 22:58	16°♁55'46	-5°-49'-42	evening set		1677 Oct 19 22:44	12°♁07'44		
greatest brilliancy	1672 Sep 08 00:25	17°♁11'31	-2.8m	max. Earth dist.		1677 Nov 03 06:55	22°♁15'59	2.47407 AU	
direct	1672 Oct 08 12:57	11°♁52'23				1677 Nov 14 01:16	0°♁		
	1672 Dec 07 08:55	0°♁							
asc. node	1672 Dec 18 16:11	5°♁53'04		conjunction		1677 Dec 11 13:50	20°♁14'59	0°-36'-22	
	1673 Jan 29 07:48	0°♁		minimum elong		1677 Dec 11 12:04	20°♁11'40	0°36'21	
	1673 Mar 18 19:56	0°♁				1677 Dec 24 12:50	0°♁		
	1673 May 05 18:34	0°♁				1678 Feb 01 12:38	0°♁		
	1673 Jun 22 17:57	0°♁		morning rise		1678 Feb 09 10:33	6°♁10'31		
evening set	1673 Aug 02 22:20	25°♁53'25				1678 Mar 11 19:39	0°♁		
	1673 Aug 09 10:06	0°♁		greatest brilliancy		1678 Apr 16 12:11	27°♁51'47	1.2m	
max. Earth dist.	1673 Sep 04 17:22	16°♁46'41	2.65833 AU			1678 Apr 19 06:29	0°♁		
						1678 May 28 19:06	0°♁		
conjunction	1673 Sep 17 10:13	24°♁57'59	0°54'31			1678 Jul 09 09:02	0°♁		
minimum elong	1673 Sep 17 11:19	24°♁59'45	0°54'31	asc. node		1678 Aug 10 13:36	21°♁47'00		
	1673 Sep 25 04:30	0°♁				1678 Aug 23 07:56	0°♁		
morning rise	1673 Nov 01 05:25	24°♁24'01				1678 Oct 14 05:35	0°♁		
	1673 Nov 09 13:57	0°♁		retrograde		1678 Dec 21 21:34	21°♁17'53		
	1673 Dec 23 10:18	0°♁		min. Earth dist.		1679 Jan 30 00:28	11°♁55'20	0.67173 AU	
desc. node	1674 Jan 05 19:05	9°♁21'25		opposition		1679 Jan 31 03:16	11°♁28'32	4°32'53	
	1674 Feb 03 19:35	0°♁		greatest brilliancy		1679 Jan 30 20:23	11°♁35'25	-1.2m	
	1674 Mar 17 00:53	0°♁		direct		1679 Mar 12 10:46	1°♁49'27		
	1674 Apr 26 15:58	0°♁				1679 Jun 05 19:37	0°♁		
	1674 Jun 06 20:31	0°♁				1679 Jul 28 11:14	0°♁		
	1674 Jul 21 09:19	0°♁		desc. node		1679 Aug 28 15:30	19°♁47'38		
retrograde	1674 Oct 03 09:26	0°♁				1679 Sep 12 23:39	0°♁		
	1674 Oct 06 17:43	0°♁				1679 Oct 25 19:45	0°♁		
	1674 Oct 10 01:31	30°♁				1679 Dec 05 02:19	0°♁		
min. Earth dist.	1674 Nov 05 03:28	24°♁07'23	0.49480 AU	evening set		1679 Dec 12 12:16	5°♁40'46		
asc. node	1674 Nov 05 16:13	23°♁55'57				1680 Jan 12 18:20	0°♁		
opposition	1674 Nov 13 04:17	21°♁10'34	0°23'47						
greatest brilliancy	1674 Nov 12 23:19	21°♁15'07	-2.2m	conjunction		1680 Feb 14 20:50	26°♁07'34	-1°-3'-58	
direct	1674 Dec 17 03:15	13°♁54'43		minimum elong		1680 Feb 14 21:55	26°♁09'41	1°03'59	
	1675 Feb 13 12:32	0°♁				1680 Feb 19 18:34	0°♁		
	1675 Apr 12 04:11	0°♁		max. Earth dist.		1680 Mar 04 00:27	10°♁26'34	2.37192 AU	
	1675 Jun 02 14:54	0°♁				1680 Mar 29 01:09	0°♁		
	1675 Jul 21 18:13	0°♁		morning rise		1680 Apr 25 12:09	21°♁01'56		
	1675 Sep 06 22:28	0°♁				1680 May 07 10:43	0°♁		
evening set	1675 Sep 09 06:46	1°♁31'35				1680 Jun 17 16:56	0°♁		
max. Earth dist.	1675 Sep 30 07:10	15°♁22'10	2.58886 AU	asc. node		1680 Jun 27 13:26	6°♁55'35		
	1675 Oct 22 00:20	0°♁				1680 Jul 31 10:41	0°♁		
						1680 Sep 16 11:52	0°♁		
conjunction	1675 Oct 26 04:20	2°♁50'50	0°16'46			1680 Nov 08 13:31	0°♁		
minimum elong	1675 Oct 26 04:58	2°♁51'55	0°16'45	retrograde		1681 Jan 24 15:25	24°♁32'44		
desc. node	1675 Nov 23 18:19	22°♁44'09		opposition		1681 Mar 05 04:34	15°♁16'14	4°03'46	
	1675 Dec 03 23:39	0°♁		greatest brilliancy		1681 Mar 05 16:22	15°♁04'37	-1.3m	
morning rise	1675 Dec 13 23:43	7°♁11'10		min. Earth dist.		1681 Mar 07 23:09	14°♁10'43	0.66650 AU	
	1676 Jan 14 02:16	0°♁		direct		1681 Apr 15 15:09	5°♁14'54		
	1676 Feb 22 19:24	0°♁				1681 Jul 01 08:53	0°♁		
	1676 Apr 01 18:43	0°♁		desc. node		1681 Jul 15 15:07	7°♁45'19		
	1676 May 10 20:35	0°♁				1681 Aug 21 07:53	0°♁		

	1681 Oct 04 09:44	0°♁		conjunction	1686 Jul 29 07:52	6°♁22'52	1°07'37
	1681 Nov 14 00:08	0°♁		minimum elong	1686 Jul 29 07:21	6°♁22'03	1°07'37
greatest brilliancy	1681 Nov 28 02:53	10°♁49'16	1.2m	max. Earth dist.	1686 Aug 04 09:11	10°♁15'05	2.66655 AU
	1681 Dec 22 17:15	0°♁			1686 Sep 04 09:22	0°♁	
evening set	1682 Jan 29 18:05	0°♁		morning rise	1686 Sep 12 19:55	5°♁21'47	
	1682 Feb 19 13:07	16°♁19'54			1686 Oct 21 14:17	0°♁	
	1682 Mar 09 03:23	0°♁			1686 Dec 07 16:55	0°♁	
	1682 Apr 17 17:52	0°♁			1687 Jan 23 21:49	0°♁	
conjunction	1682 Apr 26 07:31	6°♁19'26	0°-12'-17	desc. node	1687 Mar 07 11:56	26°♁35'09	
minimum elong	1682 Apr 26 08:28	6°♁21'09	0°12'18		1687 Mar 13 02:02	0°♁	
behind sun begin	1682 Apr 25 15:23	5°♁49'48			1687 May 04 12:19	0°♁	
behind sun end	1682 Apr 27 01:32	6°♁52'29		retrograde	1687 Jul 09 09:17	20°♁54'27	
asc. node	1682 May 15 11:18	20°♁14'09		opposition	1687 Aug 08 12:59	15°♁56'29	-6°-51'-55
	1682 May 29 04:33	0°♁		greatest brilliancy	1687 Aug 08 22:12	15°♁50'22	-2.9m
max. Earth dist.	1682 Jun 08 09:36	7°♁09'50	2.49726 AU	min. Earth dist.	1687 Aug 09 12:41	15°♁40'44	0.37434 AU
morning rise	1682 Jun 25 02:47	18°♁42'02		direct	1687 Sep 07 15:25	10°♁54'12	
	1682 Jul 11 19:26	0°♁			1687 Nov 06 15:20	0°♁	
	1682 Aug 26 17:41	0°♁			1687 Dec 26 20:51	0°♁	
	1682 Oct 14 06:27	0°♁		asc. node	1688 Jan 05 09:00	6°♁06'18	
	1682 Dec 06 06:52	0°♁			1688 Feb 10 23:53	0°♁	
retrograde	1683 Mar 04 20:43	29°♁57'45			1688 Mar 27 22:29	0°♁	
opposition	1683 Apr 11 11:41	21°♁38'55	2°07'40		1688 May 13 13:52	0°♁	
greatest brilliancy	1683 Apr 12 05:31	21°♁22'05	-1.6m	evening set	1688 Jun 29 20:38	0°♁	
min. Earth dist.	1683 Apr 17 23:12	19°♁12'09	0.59591 AU		1688 Jul 19 10:35	12°♁22'57	
direct	1683 May 22 08:42	11°♁51'22		max. Earth dist.	1688 Aug 16 05:28	0°♁	
desc. node	1683 Jun 02 14:10	12°♁39'11			1688 Aug 26 12:48	6°♁33'50	2.67131 AU
	1683 Jul 22 02:05	0°♁		conjunction	1688 Sep 03 05:32	11°♁28'51	1°03'02
	1683 Sep 10 09:14	0°♁		minimum elong	1688 Sep 03 06:21	11°♁30'09	1°03'03
	1683 Oct 22 19:33	0°♁			1688 Oct 02 00:07	0°♁	
	1683 Dec 01 07:51	0°♁		morning rise	1688 Oct 17 14:58	10°♁09'44	
	1684 Jan 08 21:35	0°♁			1688 Nov 16 16:56	0°♁	
	1684 Feb 16 19:23	0°♁			1688 Dec 31 03:21	0°♁	
	1684 Mar 27 23:15	0°♁		desc. node	1689 Jan 22 10:54	15°♁23'09	
asc. node	1684 Apr 01 09:58	3°♁14'38			1689 Feb 12 09:14	0°♁	
evening set	1684 Apr 23 14:27	19°♁11'40			1689 Mar 26 17:02	0°♁	
	1684 May 08 22:59	0°♁			1689 May 07 19:27	0°♁	
conjunction	1684 Jun 17 20:05	27°♁15'10	0°43'35		1689 Jun 20 13:45	0°♁	
minimum elong	1684 Jun 17 18:28	27°♁12'28	0°43'33	retrograde	1689 Aug 13 23:00	0°♁	
	1684 Jun 21 22:42	0°♁		min. Earth dist.	1689 Sep 16 15:41	7°♁21'41	
max. Earth dist.	1684 Jul 10 08:02	12°♁10'22	2.60754 AU		1689 Oct 14 03:10	2°♁14'15	0.44271 AU
morning rise	1684 Aug 06 21:28	0°♁05'22		greatest brilliancy	1689 Oct 20 17:42	30°♁R♁	
	1684 Aug 06 18:08	0°♁		opposition	1689 Oct 21 10:59	29°♁45'15	-2.5m
	1684 Sep 23 00:37	0°♁		asc. node	1689 Oct 22 05:23	29°♁29'36	-1°-48'-28
	1684 Nov 10 15:40	0°♁		direct	1689 Nov 22 07:37	23°♁06'33	
	1684 Dec 31 13:40	0°♁			1689 Nov 23 06:13	23°♁06'12	
desc. node	1685 Feb 28 01:38	0°♁			1689 Dec 28 10:27	0°♁	
retrograde	1685 Apr 19 12:36	14°♁06'58			1690 Feb 28 23:53	0°♁	
opposition	1685 Apr 24 15:35	14°♁16'30			1690 Apr 21 18:37	0°♁	
greatest brilliancy	1685 May 28 12:47	7°♁37'26	-2°-1'-30		1690 Jun 10 10:19	0°♁	
min. Earth dist.	1685 May 29 11:18	7°♁18'29	-2.2m	evening set	1690 Jul 28 20:18	0°♁	
	1685 Jun 05 22:51	4°♁48'04	0.47240 AU		1690 Aug 25 13:29	17°♁34'51	
	1685 Jun 26 01:35	30°♁R♁		max. Earth dist.	1690 Sep 13 19:02	0°♁	
direct	1685 Jul 04 18:47	29°♁27'48			1690 Sep 19 21:11	3°♁58'24	2.62199 AU
	1685 Jul 13 14:07	0°♁		conjunction	1690 Oct 10 12:23	17°♁36'06	0°33'53
	1685 Sep 21 06:52	0°♁		minimum elong	1690 Oct 10 13:26	17°♁37'51	0°33'53
	1685 Nov 04 07:30	0°♁			1690 Oct 28 22:44	0°♁	
	1685 Dec 15 03:14	0°♁		morning rise	1690 Nov 26 03:40	19°♁25'01	
	1686 Jan 24 15:49	0°♁		desc. node	1690 Dec 10 09:27	29°♁25'47	
asc. node	1686 Feb 17 09:58	17°♁17'34			1690 Dec 11 04:46	0°♁	
	1686 Mar 07 04:03	0°♁			1691 Jan 21 17:22	0°♁	
	1686 Apr 19 07:00	0°♁			1691 Mar 02 21:38	0°♁	
	1686 Jun 03 03:12	0°♁			1691 Apr 11 08:06	0°♁	
evening set	1686 Jun 10 17:56	4°♁59'34			1691 May 20 21:58	0°♁	
	1686 Jul 19 08:53	0°♁			1691 Jul 01 00:34	0°♁	
					1691 Aug 15 13:00	0°♁	

asc. node	1691 Oct 10 07:03	26°II11'37		1696 Aug 29 22:18	0°ML	
retrograde	1691 Nov 02 12:02	29°II38'41		1696 Oct 12 08:33	0°Z	
min. Earth dist.	1691 Dec 05 06:26	22°II24'34	0.57124 AU	1696 Nov 21 18:28	0°Z	
opposition	1691 Dec 11 15:35	19°II55'04	2°42'52	1696 Dec 30 10:08	0°Z	
greatest brilliancy	1691 Dec 10 17:11	20°II16'59	-1.7m	evening set	1697 Jan 22 01:18	17°Z51'48
direct	1692 Jan 17 03:59	11°II36'01			1697 Feb 06 09:41	0°K
	1692 Mar 21 20:04	0°E			1697 Mar 16 16:45	0°Y
	1692 May 18 09:03	0°Q				
	1692 Jul 08 10:04	0°P		conjunction	1697 Mar 31 01:51	11°Y03'59 0°-38'-21
	1692 Aug 25 06:29	0°U		minimum elong	1697 Mar 31 04:47	11°Y09'34 0°38'19
evening set	1692 Oct 02 19:35	25°U29'22			1697 Apr 25 03:51	0°B
	1692 Oct 09 10:40	0°ML		max. Earth dist.	1697 May 20 13:40	18°B38'14 2.44340 AU
max. Earth dist.	1692 Oct 18 15:27	6°ML19'28	2.52316 AU	asc. node	1697 Jun 01 03:51	26°B56'53
desc. node	1692 Oct 27 09:07	12°ML23'49		morning rise	1697 Jun 04 04:55	29°B06'39
					1697 Jun 05 11:03	0°II
conjunction	1692 Nov 21 12:34	0°Z15'08	0°-15'-11		1697 Jul 19 00:35	0°E
minimum elong	1692 Nov 21 11:51	0°Z13'50	0°15'13		1697 Sep 03 04:23	0°Q
behind sun begin	1692 Nov 21 04:03	29°ML59'48			1697 Oct 22 18:08	0°P
behind sun end	1692 Nov 21 19:38	0°Z27'52			1697 Dec 19 06:56	0°U
	1692 Nov 21 04:10	0°Z		retrograde	1698 Feb 16 17:23	15°U49'10
	1692 Dec 31 20:39	0°Z		opposition	1698 Mar 27 06:25	7°U04'14 3°04'44
morning rise	1693 Jan 14 23:32	10°Z41'57		greatest brilliancy	1698 Mar 28 00:55	6°U46'23 -1.4m
	1693 Feb 09 02:02	0°Z		min. Earth dist.	1698 Apr 01 08:36	5°U06'29 0.63094 AU
	1693 Mar 19 14:03	0°K			1698 Apr 16 10:52	30°RP
	1693 Apr 27 05:01	0°Y		direct	1698 May 07 14:44	27°P05'18
	1693 Jun 05 21:55	0°B			1698 May 29 23:34	0°U
	1693 Jul 17 20:55	0°II		desc. node	1698 Jun 19 05:11	6°U34'23
asc. node	1693 Aug 27 05:54	26°II27'15			1698 Aug 04 17:31	0°ML
	1693 Sep 02 01:08	0°E			1698 Sep 20 05:34	0°Z
	1693 Oct 30 21:27	0°Q			1698 Oct 31 15:30	0°Z
retrograde	1693 Dec 08 12:26	8°Q08'05			1698 Dec 09 17:15	0°Z
	1694 Jan 13 05:08	30°RE			1699 Jan 16 23:57	0°K
min. Earth dist.	1694 Jan 15 01:46	29°E15'36	0.65586 AU		1699 Feb 24 15:12	0°Y
opposition	1694 Jan 17 17:00	28°E12'16	4°22'30	evening set	1699 Apr 01 17:42	27°Y13'02
greatest brilliancy	1694 Jan 17 02:53	28°E26'24	-1.3m		1699 Apr 05 12:08	0°B
direct	1694 Feb 26 04:50	18°E49'09		asc. node	1699 Apr 19 03:11	9°B57'42
	1694 Apr 15 21:41	0°Q			1699 May 17 05:03	0°II
	1694 Jun 16 02:17	0°P				
	1694 Aug 05 13:01	0°U		conjunction	1699 May 30 22:20	9°II33'34 0°25'24
desc. node	1694 Sep 14 08:01	25°U51'36		minimum elong	1699 May 30 21:00	9°II31'15 0°25'24
	1694 Sep 20 11:01	0°ML			1699 Jun 29 23:29	0°E
	1694 Nov 02 04:01	0°Z		max. Earth dist.	1699 Jun 29 23:06	29°II59'21 2.56971 AU
evening set	1694 Nov 19 12:56	12°Z44'32		morning rise	1699 Jul 23 01:54	15°E17'58
	1694 Dec 12 11:45	0°Z			1699 Aug 14 17:38	0°Q
max. Earth dist.	1694 Dec 12 21:42	0°Z18'57	2.39603 AU		1699 Oct 01 07:17	0°P
					1699 Nov 20 00:27	0°U
conjunction	1695 Jan 17 22:09	28°Z10'46	-1°-1'-40		1700 Jan 13 10:40	0°ML
minimum elong	1695 Jan 17 20:32	28°Z07'37	1°01'41	retrograde	1700 Apr 03 05:36	25°ML29'26
	1695 Jan 20 05:54	0°Z		desc. node	1700 May 07 04:19	18°ML39'46
	1695 Feb 27 07:46	0°K		opposition	1700 May 08 19:36	18°ML04'55 0°-4'-41
morning rise	1695 Mar 27 19:41	22°K22'44		greatest brilliancy	1698 Oct 21 04:29	22°Z12'23 -7.9m
	1695 Apr 06 14:52	0°Y		min. Earth dist.	1700 May 16 23:07	15°ML10'17 0.52467 AU
	1695 May 16 00:03	0°B		direct	1700 Jun 17 00:17	9°ML01'14
	1695 Jun 26 06:44	0°II			1700 Aug 19 20:03	0°Z
asc. node	1695 Jul 15 04:10	13°II09'10			1700 Oct 06 01:15	0°Z
	1695 Aug 09 06:17	0°E			1700 Nov 16 05:45	0°Z
	1695 Sep 26 08:05	0°Q			1700 Dec 25 18:18	0°K
	1695 Nov 23 15:27	0°P			1701 Feb 03 09:59	0°Y
retrograde	1696 Jan 11 22:33	11°P50'15		asc. node	1701 Mar 07 01:33	23°Y21'36
opposition	1696 Feb 20 21:14	2°P18'24	4°24'13		1701 Mar 16 05:38	0°B
greatest brilliancy	1696 Feb 21 02:12	2°P13'28	-1.2m		1701 Apr 27 19:09	0°II
min. Earth dist.	1696 Feb 22 03:22	1°P48'30	0.67653 AU	evening set	1701 May 25 09:47	18°II47'06
	1696 Feb 26 17:50	30°RQ			1701 Jun 11 05:19	0°E
direct	1696 Apr 02 01:04	22°Q22'34				
	1696 May 10 21:25	0°P		conjunction	1701 Jul 15 01:09	22°E08'33 1°01'58
	1696 Jul 12 10:21	0°U		minimum elong	1701 Jul 15 00:04	22°E06'49 1°01'57
desc. node	1696 Aug 01 06:18	11°U45'12		max. Earth dist.	1701 Jul 27 03:43	29°E57'28 2.64989 AU

	1701 Jul 27 05:17	0°♁		min. Earth dist.	1706 Nov 17 15:37	5°♁26'43	0.52369 AU
morning rise	1701 Aug 30 20:52	22°♁08'49		opposition	1706 Nov 25 05:32	2°♁35'02	1°23'57
	1701 Sep 12 05:57	0°♁		greatest brilliancy	1706 Nov 24 14:27	2°♁49'18	-2.0m
	1701 Oct 29 20:09	0°♁			1706 Dec 02 07:41	30°♁	
	1701 Dec 16 23:02	0°♁		direct	1706 Dec 30 04:43	24°♁53'41	
	1702 Feb 04 10:08	0°♁			1707 Jan 29 12:30	0°♁	
desc. node	1702 Mar 25 02:49	27°♁13'30			1707 Apr 06 03:18	0°♁	
	1702 Mar 30 14:10	0°♁			1707 May 29 03:52	0°♁	
retrograde	1702 Jun 08 02:05	21°♁30'34			1707 Jul 17 21:09	0°♁	
opposition	1702 Jul 09 00:58	16°♁10'51	-5°-36'-33		1707 Sep 03 06:55	0°♁	
greatest brilliancy	1702 Jul 10 12:17	15°♁45'38	-2.7m	evening set	1707 Sep 18 22:38	10°♁14'06	
min. Earth dist.	1702 Jul 14 21:01	14°♁31'15	0.39859 AU	max. Earth dist.	1707 Oct 07 21:57	22°♁52'57	2.56752 AU
direct	1702 Aug 10 17:37	10°♁06'26			1707 Oct 18 09:59	0°♁	
	1702 Oct 09 22:19	0°♁					
	1702 Nov 26 18:38	0°♁		conjunction	1707 Nov 05 14:45	12°♁32'43	0°05'39
	1703 Jan 09 09:52	0°♁		minimum elong	1707 Nov 05 14:59	12°♁33'08	0°05'40
asc. node	1703 Jan 23 00:41	9°♁26'41		behind sun begin	1707 Nov 04 19:28	11°♁59'11	
	1703 Feb 21 20:36	0°♁		behind sun end	1707 Nov 06 10:31	13°♁07'07	
	1703 Apr 07 07:29	0°♁		desc. node	1707 Nov 15 00:48	19°♁08'27	
	1703 May 23 01:29	0°♁			1707 Nov 30 07:38	0°♁	
evening set	1703 Jul 06 14:08	28°♁34'05		morning rise	1707 Dec 26 01:21	18°♁42'03	
	1703 Jul 08 20:04	0°♁			1708 Jan 10 06:58	0°♁	
max. Earth dist.	1703 Aug 19 11:11	26°♁28'41	2.67597 AU		1708 Feb 18 19:53	0°♁	
					1708 Mar 28 14:36	0°♁	
conjunction	1703 Aug 22 02:03	28°♁08'41	1°07'55		1708 May 06 11:28	0°♁	
minimum elong	1703 Aug 22 02:26	28°♁09'18	1°07'54		1708 Jun 15 11:36	0°♁	
	1703 Aug 25 00:01	0°♁			1708 Jul 28 02:51	0°♁	
morning rise	1703 Oct 05 13:04	26°♁34'05		asc. node	1708 Sep 13 21:32	29°♁32'02	
	1703 Oct 10 20:57	0°♁			1708 Sep 14 17:50	0°♁	
	1703 Nov 25 23:43	0°♁		retrograde	1708 Nov 25 18:32	24°♁17'33	
	1704 Jan 10 05:04	0°♁		min. Earth dist.	1708 Dec 31 14:18	15°♁59'16	0.62996 AU
desc. node	1704 Feb 10 02:30	20°♁47'46		opposition	1709 Jan 04 17:35	14°♁20'04	3°58'18
	1704 Feb 23 16:35	0°♁		greatest brilliancy	1709 Jan 03 21:36	14°♁40'04	-1.4m
	1704 Apr 07 20:24	0°♁		direct	1709 Feb 12 05:11	5°♁17'25	
	1704 May 23 01:27	0°♁			1709 May 01 21:40	0°♁	
	1704 Jul 15 03:20	0°♁			1709 Jun 26 00:46	0°♁	
retrograde	1704 Aug 24 23:15	10°♁12'35			1709 Aug 14 03:46	0°♁	
min. Earth dist.	1704 Sep 20 13:25	5°♁40'39	0.39814 AU		1709 Sep 28 16:41	0°♁	
opposition	1704 Sep 26 21:51	3°♁46'09	-4°-27'-24	desc. node	1709 Oct 01 23:17	2°♁14'18	
greatest brilliancy	1704 Sep 25 17:07	4°♁07'52	-2.7m	evening set	1709 Oct 31 10:08	22°♁50'38	
	1704 Oct 11 03:55	30°♁			1709 Nov 10 08:57	0°♁	
direct	1704 Oct 27 06:13	28°♁18'17		max. Earth dist.	1709 Nov 15 11:16	3°♁42'03	2.44554 AU
	1704 Nov 12 13:27	0°♁			1709 Dec 20 19:30	0°♁	
asc. node	1704 Dec 10 00:10	8°♁46'37					
	1705 Jan 21 10:14	0°♁		conjunction	1709 Dec 25 03:24	3°♁17'26	0°-47'-27
	1705 Mar 13 10:52	0°♁		minimum elong	1709 Dec 25 01:15	3°♁13'20	0°47'26
	1705 May 01 09:56	0°♁			1710 Jan 28 17:27	0°♁	
	1705 Jun 18 21:14	0°♁		greatest brilliancy	1710 Feb 10 12:52	10°♁01'43	1.2m
	1705 Aug 05 18:55	0°♁		morning rise	1710 Feb 26 10:39	22°♁31'51	
evening set	1705 Aug 12 03:07	4°♁00'52			1710 Mar 07 22:30	0°♁	
max. Earth dist.	1705 Sep 11 04:08	23°♁13'48	2.64775 AU		1710 Apr 15 07:38	0°♁	
	1705 Sep 21 14:50	0°♁			1710 May 24 18:05	0°♁	
					1710 Jul 05 03:31	0°♁	
conjunction	1705 Sep 26 15:37	3°♁16'47	0°47'55	asc. node	1710 Aug 01 21:44	19°♁02'28	
minimum elong	1705 Sep 26 16:46	3°♁18'39	0°47'55		1710 Aug 18 14:08	0°♁	
	1705 Nov 05 22:23	0°♁			1710 Oct 07 11:55	0°♁	
morning rise	1705 Nov 10 22:06	3°♁22'21		retrograde	1710 Dec 30 13:33	29°♁08'27	
	1705 Dec 19 13:25	0°♁		opposition	1711 Feb 08 17:32	19°♁24'26	4°33'08
desc. node	1705 Dec 28 02:05	5°♁59'55		min. Earth dist.	1711 Feb 08 11:10	19°♁30'48	0.67620 AU
	1706 Jan 30 14:40	0°♁		greatest brilliancy	1711 Feb 08 14:56	19°♁27'03	-1.2m
	1706 Mar 12 09:34	0°♁		direct	1711 Mar 21 09:15	9°♁38'17	
	1706 Apr 21 11:49	0°♁			1711 May 29 21:02	0°♁	
	1706 May 31 21:28	0°♁			1711 Jul 23 19:25	0°♁	
	1706 Jul 13 13:36	0°♁		desc. node	1711 Aug 19 22:05	16°♁51'48	
	1706 Sep 03 03:05	0°♁			1711 Sep 08 22:39	0°♁	
retrograde	1706 Oct 18 01:06	11°♁52'48			1711 Oct 21 23:37	0°♁	
asc. node	1706 Oct 27 22:13	11°♁09'56			1711 Dec 01 07:30	0°♁	

evening set	1711 Dec 27 18:32	20°☾26'28		max. Earth dist.	1716 Jul 17 08:18	19°☾09'23	2.62485 AU
	1712 Jan 08 23:16	0°≈			1716 Aug 03 02:01	0°♁	
	1712 Feb 15 22:50	0°✕		morning rise	1716 Aug 16 10:32	8°♁34'22	
					1716 Sep 19 05:15	0°♃	
conjunction	1712 Mar 03 08:29	12°♃55'42	0°-58'-21		1716 Nov 06 09:22	0°♄	
minimum elong	1712 Mar 03 11:05	13°♃00'50	0°58'21		1716 Dec 26 00:45	0°♅	
	1712 Mar 25 05:03	0°♃			1717 Feb 17 16:29	0°♆	
max. Earth dist.	1712 Apr 19 10:46	19°♃21'32	2.39133 AU	desc. node	1717 Apr 10 19:23	22°♆11'05	
	1712 May 03 14:21	0°♃		retrograde	1717 May 09 23:29	26°♆48'51	
morning rise	1712 May 11 21:33	6°♃09'54		opposition	1717 Jun 11 21:03	20°♆38'25	-3°-19'-1
	1712 Jun 13 19:44	0°♃		greatest brilliancy	1717 Jun 13 05:34	20°♆12'20	-2.4m
asc. node	1712 Jun 18 20:05	3°♃32'27		min. Earth dist.	1717 Jun 19 22:53	18°♆04'12	0.44337 AU
	1712 Jul 27 10:22	0°♃		direct	1717 Jul 17 15:09	13°♆09'46	
	1712 Sep 12 00:31	0°♃			1717 Sep 10 04:57	0°♆	
	1712 Nov 02 08:08	0°♃			1717 Oct 28 07:10	0°≈	
retrograde	1713 Jan 12 21:03	0°♄			1717 Dec 09 10:58	0°✕	
	1713 Feb 02 19:40	2°♄27'33			1718 Jan 19 17:23	0°♃	
	1713 Feb 22 10:52	30°♃		asc. node	1718 Feb 08 16:37	14°♃21'53	
opposition	1713 Mar 14 01:14	23°♃21'18	3°45'50		1718 Mar 02 17:58	0°♃	
greatest brilliancy	1713 Mar 14 16:07	23°♃06'44	-1.3m		1718 Apr 15 05:44	0°♃	
min. Earth dist.	1713 Mar 17 15:56	21°♃56'31	0.65659 AU		1718 May 30 08:11	0°☾	
direct	1713 Apr 24 12:30	13°♃19'06		evening set	1718 Jun 21 01:26	14°☾07'40	
	1713 Jun 23 12:13	0°♄			1718 Jul 15 17:25	0°♁	
desc. node	1713 Jul 06 20:57	6°♄37'41					
	1713 Aug 16 07:00	0°♅		conjunction	1718 Aug 07 17:44	14°♁42'04	1°08'54
	1713 Sep 30 01:38	0°♆		minimum elong	1718 Aug 07 17:34	14°♁41'49	1°08'53
	1713 Nov 09 22:21	0°♆		max. Earth dist.	1718 Aug 10 15:19	16°♁32'55	2.67229 AU
	1713 Dec 18 18:12	0°≈			1718 Aug 31 18:25	0°♃	
	1714 Jan 25 20:28	0°✕		morning rise	1718 Sep 21 17:22	13°♃20'24	
	1714 Mar 05 07:00	0°♃			1718 Oct 17 19:55	0°♄	
evening set	1714 Mar 08 01:50	2°♃08'38			1718 Dec 03 12:44	0°♅	
	1714 Apr 13 22:38	0°♃			1719 Jan 18 21:26	0°♆	
asc. node	1714 May 06 18:42	16°♃41'48		desc. node	1719 Feb 26 18:34	25°♆07'57	
					1719 Mar 06 08:32	0°♆	
conjunction	1714 May 10 15:38	19°♃29'01	0°02'30		1719 Apr 23 05:20	0°≈	
minimum elong	1714 May 10 15:28	19°♃28'43	0°02'30		1719 Jun 18 16:04	0°✕	
behind sun begin	1714 May 09 14:30	18°♃43'52		retrograde	1719 Jul 28 09:18	9°♃08'06	
behind sun end	1714 May 11 16:27	20°♃13'31		min. Earth dist.	1719 Aug 25 19:50	4°♃29'41	0.37401 AU
	1714 May 25 10:14	0°♃		opposition	1719 Aug 27 22:35	3°♃55'45	-6°-33'-52
max. Earth dist.	1714 Jun 18 00:55	16°♃25'33	2.52480 AU	greatest brilliancy	1719 Aug 27 12:12	4°♃02'42	-2.9m
morning rise	1714 Jul 06 19:38	29°♃10'26			1719 Sep 14 04:10	30°♃	
	1714 Jul 08 01:10	0°☾		direct	1719 Sep 26 08:55	29°≈01'19	
	1714 Aug 22 20:19	0°♁			1719 Oct 08 16:10	0°✕	
	1714 Oct 09 21:57	0°♃			1719 Dec 17 23:07	0°♃	
	1714 Nov 30 08:18	0°♄		asc. node	1719 Dec 27 15:21	5°♃41'43	
	1715 Jan 31 19:40	0°♅			1720 Feb 04 23:27	0°♆	
retrograde	1715 Mar 15 21:46	9°♅04'53			1720 Mar 23 03:28	0°♃	
opposition	1715 Apr 21 20:55	1°♅03'30	1°25'35		1720 May 09 10:31	0°☾	
greatest brilliancy	1715 Apr 22 11:06	0°♅50'19	-1.7m		1720 Jun 26 01:51	0°♁	
	1715 Apr 24 17:00	30°♃		evening set	1720 Jul 28 18:46	20°♁36'30	
min. Earth dist.	1715 Apr 29 00:55	28°♄23'36	0.57242 AU		1720 Aug 12 14:40	0°♃	
desc. node	1715 May 24 19:38	21°♄49'51		max. Earth dist.	1720 Sep 01 20:01	12°♃53'04	2.66525 AU
direct	1715 Jun 01 06:46	21°♄27'17					
	1715 Jul 10 07:11	0°♅		conjunction	1720 Sep 12 08:18	19°♃37'43	0°58'30
	1715 Sep 04 05:56	0°♆		minimum elong	1720 Sep 12 09:18	19°♃39'19	0°58'29
	1715 Oct 17 18:54	0°♆			1720 Sep 28 09:40	0°♄	
	1715 Nov 26 18:08	0°≈		morning rise	1720 Oct 26 21:24	18°♄39'13	
	1716 Jan 04 14:11	0°✕			1720 Nov 12 22:56	0°♅	
	1716 Feb 12 16:53	0°♃			1720 Dec 27 01:58	0°♆	
asc. node	1716 Mar 23 18:27	29°♃48'10		desc. node	1721 Jan 13 17:15	12°♆15'48	
	1716 Mar 24 00:56	0°♃			1721 Feb 07 20:24	0°♆	
	1716 May 05 04:02	0°♃			1721 Mar 21 12:46	0°≈	
evening set	1716 May 06 08:25	0°♃49'20			1721 May 01 17:01	0°✕	
	1716 Jun 18 06:11	0°☾			1721 Jun 12 17:33	0°♃	
					1721 Jul 29 12:19	0°♃	
conjunction	1716 Jun 28 17:26	6°☾56'46	0°51'42	retrograde	1721 Sep 29 10:20	21°♃07'43	
minimum elong	1716 Jun 28 15:56	6°☾54'16	0°51'41	min. Earth dist.	1721 Oct 27 20:57	15°♃33'42	0.47117 AU

opposition	1721 Nov 05 02:34	12°♄38'09	0°-28'-24			1726 Dec 08 17:47	0°♁	
greatest brilliancy	1721 Nov 04 21:11	12°♄42'57	-2.3m	max. Earth dist.		1727 Jan 13 05:35	27°♁27'26	2.37548 AU
asc. node	1721 Nov 13 15:28	9°♄45'34				1727 Jan 16 11:25	0°♁	
direct	1721 Dec 08 05:39	5°♄44'46						
	1722 Feb 21 02:31	0°♁		conjunction		1727 Feb 03 08:31	14°♁04'36	-1°-4'-48
	1722 Apr 16 15:45	0°♁		minimum elong		1727 Feb 03 08:15	14°♁04'06	1°04'50
	1722 Jun 06 06:06	0°♁				1727 Feb 23 12:24	0°♁	
	1722 Jul 25 01:53	0°♁				1727 Apr 02 18:44	0°♁	
evening set	1722 Sep 03 22:35	25°♁57'02		morning rise		1727 Apr 14 20:08	9°♁18'34	
	1722 Sep 10 04:33	0°♁				1727 May 12 03:09	0°♁	
max. Earth dist.	1722 Sep 26 20:56	10°♁55'39	2.60466 AU			1727 Jun 22 07:54	0°♁	
				asc. node		1727 Jul 06 12:37	9°♁57'07	
conjunction	1722 Oct 20 08:02	26°♁36'21	0°24'19			1727 Aug 05 02:00	0°♁	
minimum elong	1722 Oct 20 08:53	26°♁37'46	0°24'19			1727 Sep 21 09:44	0°♁	
	1722 Oct 25 08:13	0°♁				1727 Nov 14 22:50	0°♁	
desc. node	1722 Dec 01 16:10	25°♁53'04		retrograde		1728 Jan 20 18:19	19°♁34'33	
morning rise	1722 Dec 07 01:02	29°♁41'34		opposition		1728 Feb 29 11:57	10°♁10'51	4°13'35
	1722 Dec 07 11:24	0°♁		greatest brilliancy		1728 Feb 29 20:53	10°♁02'01	-1.2m
	1723 Jan 17 19:04	0°♁		min. Earth dist.		1728 Mar 02 14:31	9°♁20'52	0.67220 AU
	1723 Feb 26 17:28	0°♁		direct		1728 Apr 10 19:42	0°♁	
	1723 Apr 06 21:24	0°♁				1728 Jul 06 13:35	0°♁	
	1723 May 16 03:37	0°♁		desc. node		1728 Jul 23 12:43	9°♁36'52	
	1723 Jun 25 17:15	0°♁				1728 Aug 25 10:14	0°♁	
	1723 Aug 08 17:12	0°♁				1728 Oct 08 06:23	0°♁	
asc. node	1723 Oct 01 14:29	29°♁25'28				1728 Nov 17 19:44	0°♁	
	1723 Oct 02 23:45	0°♁				1728 Dec 26 12:41	0°♁	
retrograde	1723 Nov 12 06:57	9°♁18'15				1729 Feb 02 12:47	0°♁	
min. Earth dist.	1723 Dec 16 04:33	1°♁39'23	0.59454 AU	greatest brilliancy		1729 Feb 05 06:20	2°♁09'19	1.2m
	1723 Dec 20 09:14	30°♁		evening set		1729 Feb 08 04:08	4°♁26'55	
opposition	1723 Dec 21 18:44	29°♁26'48	3°16'44			1729 Mar 12 20:31	0°♁	
greatest brilliancy	1723 Dec 20 19:45	29°♁49'34	-1.6m					
direct	1724 Jan 28 01:02	20°♁50'22		conjunction		1729 Apr 16 07:37	26°♁14'27	0°-23'-39
	1724 Mar 10 22:54	0°♁		minimum elong		1729 Apr 16 09:30	26°♁17'58	0°23'39
	1724 May 13 00:27	0°♁				1729 Apr 21 08:33	0°♁	
	1724 Jul 04 05:02	0°♁		asc. node		1729 May 23 10:52	23°♁25'54	
	1724 Aug 21 11:32	0°♁				1729 Jun 01 16:17	0°♁	
	1724 Oct 05 19:06	0°♁		max. Earth dist.		1729 Jun 01 23:51	0°♁13'23	2.47368 AU
evening set	1724 Oct 13 09:16	5°♁12'21		morning rise		1729 Jun 17 10:35	11°♁02'50	
desc. node	1724 Oct 18 14:59	8°♁49'49				1729 Jul 15 05:05	0°♁	
max. Earth dist.	1724 Oct 28 02:51	15°♁27'47	2.49664 AU			1729 Aug 30 03:45	0°♁	
	1724 Nov 17 12:43	0°♁				1729 Oct 18 00:11	0°♁	
						1729 Dec 11 09:48	0°♁	
conjunction	1724 Dec 03 13:48	11°♁41'18	0°-27'-27	retrograde		1730 Feb 26 18:23	24°♁14'31	
minimum elong	1724 Dec 03 12:27	11°♁38'50	0°27'27	opposition		1730 Apr 05 19:32	15°♁43'24	2°33'31
	1724 Dec 28 03:24	0°♁		greatest brilliancy		1730 Apr 06 14:12	15°♁25'35	-1.5m
morning rise	1725 Jan 29 20:16	25°♁01'29		min. Earth dist.		1730 Apr 11 16:27	13°♁28'55	0.61273 AU
	1725 Feb 05 06:13	0°♁		direct		1730 May 16 22:19	5°♁49'21	
	1725 Mar 15 15:20	0°♁		desc. node		1730 Jun 10 12:07	9°♁20'48	
	1725 Apr 23 03:23	0°♁				1730 Jul 28 17:59	0°♁	
	1725 Jun 01 16:41	0°♁				1730 Sep 15 04:15	0°♁	
	1725 Jul 13 08:13	0°♁				1730 Oct 27 03:44	0°♁	
asc. node	1725 Aug 18 12:53	24°♁14'35				1730 Dec 05 11:27	0°♁	
	1725 Aug 27 15:10	0°♁				1731 Jan 12 21:30	0°♁	
	1725 Oct 20 08:05	0°♁				1731 Feb 20 15:25	0°♁	
retrograde	1725 Dec 17 06:29	16°♁13'01				1731 Apr 01 15:00	0°♁	
min. Earth dist.	1726 Jan 24 16:52	7°♁03'08	0.66587 AU	asc. node		1731 Apr 10 09:16	6°♁24'28	
opposition	1726 Jan 26 11:40	6°♁20'14	4°30'13	evening set		1731 Apr 16 01:41	10°♁31'52	
greatest brilliancy	1726 Jan 26 01:29	6°♁30'27	-1.3m			1731 May 13 10:11	0°♁	
	1726 Feb 13 03:11	30°♁						
direct	1726 Mar 07 10:24	26°♁47'44		conjunction		1731 Jun 11 23:23	20°♁22'24	0°36'32
	1726 Mar 31 17:23	0°♁		minimum elong		1731 Jun 11 21:47	20°♁19'40	0°36'31
	1726 Jun 10 13:20	0°♁				1731 Jun 26 06:18	0°♁	
	1726 Aug 01 06:01	0°♁		max. Earth dist.		1731 Jul 07 16:03	7°♁35'38	2.59172 AU
desc. node	1726 Sep 05 13:15	22°♁37'49		morning rise		1731 Aug 02 06:50	24°♁22'21	
	1726 Sep 16 13:32	0°♁				1731 Aug 10 23:51	0°♁	
	1726 Oct 29 09:38	0°♁				1731 Sep 27 08:15	0°♁	
evening set	1726 Dec 03 03:59	25°♁45'59				1731 Nov 15 08:34	0°♁	

	1732 Jan 06 10:46	0°♁		1737 Jan 09 19:47	0°♄	
	1732 Mar 11 16:13	0°♂		1737 Mar 06 10:29	0°♁	
retrograde	1732 Apr 15 11:26	6°♂15'34		1737 Apr 25 19:18	0°♄	
desc. node	1732 Apr 27 10:21	5°♂21'09		1737 Jun 13 21:26	0°♁	
	1732 May 17 23:11	30°♁♁		1737 Aug 01 02:02	0°♁	
opposition	1732 May 20 03:39	29°♁14'55	-1°-8'-15	evening set	1737 Aug 20 09:18	12°♁13'32
greatest brilliancy	1732 May 20 16:55	29°♁03'25	-2.1m	max. Earth dist.	1737 Sep 16 19:33	29°♁52'27 2.63449 AU
min. Earth dist.	1732 May 28 13:06	26°♁20'27	0.49615 AU		1737 Sep 17 00:12	0°♁
direct	1732 Jun 27 08:19	20°♁38'00				
	1732 Aug 06 02:20	0°♂		conjunction	1737 Oct 05 02:06	11°♁50'37 0°40'09
	1732 Sep 28 05:08	0°♄		minimum elong	1737 Oct 05 03:13	11°♁52'28 0°40'08
	1732 Nov 09 17:43	0°♁			1737 Nov 01 06:22	0°♁
	1732 Dec 19 21:19	0°♂		morning rise	1737 Nov 20 00:31	12°♁47'49
	1733 Jan 28 22:39	0°♁			1737 Dec 14 17:19	0°♂
asc. node	1733 Feb 25 09:15	20°♁08'14		desc. node	1737 Dec 18 07:30	2°♂32'04
	1733 Mar 11 01:46	0°♄			1738 Jan 25 12:03	0°♄
	1733 Apr 22 20:56	0°♁			1738 Mar 06 23:06	0°♁
evening set	1733 Jun 04 12:01	28°♁41'48			1738 Apr 15 16:03	0°♂
	1733 Jun 06 11:21	0°♄			1738 May 25 12:56	0°♁
	1733 Jul 22 13:27	0°♁			1738 Jul 06 03:12	0°♄
					1738 Aug 22 05:01	0°♁
conjunction	1733 Jul 23 22:06	0°♁52'27	1°05'47	asc. node	1738 Oct 18 06:18	22°♁07'04
minimum elong	1733 Jul 23 21:21	0°♁51'16	1°05'47	retrograde	1738 Oct 27 16:18	22°♁43'41
max. Earth dist.	1733 Aug 01 16:28	6°♁29'50	2.66021 AU	min. Earth dist.	1738 Nov 28 11:38	15°♁49'58 0.55074 AU
morning rise	1733 Sep 07 22:27	0°♁14'11		opposition	1738 Dec 05 10:01	13°♁09'26 2°13'13
	1733 Sep 07 13:31	0°♁		greatest brilliancy	1738 Dec 04 13:23	13°♁29'25 -1.8m
	1733 Oct 24 22:09	0°♁		direct	1739 Jan 10 06:10	5°♁06'05
	1733 Dec 11 10:20	0°♁			1739 Mar 29 03:05	0°♄
desc. node	1734 Jan 28 11:33	0°♂			1739 May 23 10:25	0°♁
	1734 Mar 15 09:22	27°♂35'27			1739 Jul 12 21:30	0°♁
	1734 Mar 19 13:44	0°♄			1739 Aug 29 14:13	0°♁
	1734 May 18 20:05	0°♁		evening set	1739 Sep 27 21:08	19°♁15'13
retrograde	1734 Jun 26 02:31	7°♁59'43			1739 Oct 13 18:56	0°♁
opposition	1734 Jul 26 08:37	2°♁58'23	-6°-33'-12	max. Earth dist.	1739 Oct 15 00:22	0°♁50'13 2.54367 AU
greatest brilliancy	1734 Jul 27 08:46	2°♁41'58	-2.8m	desc. node	1739 Nov 05 06:39	15°♁33'00
min. Earth dist.	1734 Jul 29 18:05	2°♁03'04	0.38169 AU			
	1734 Aug 06 20:17	30°♁♄		conjunction	1739 Nov 15 14:08	22°♁49'24 0°-6'-15
direct	1734 Aug 26 11:24	27°♄34'31		minimum elong	1739 Nov 15 13:51	22°♁48'54 0°06'15
	1734 Sep 14 13:43	0°♁		behind sun begin	1739 Nov 14 18:00	22°♁13'42
	1734 Nov 16 17:03	0°♂		behind sun end	1739 Nov 16 09:43	23°♁24'08
	1735 Jan 02 01:18	0°♁			1739 Nov 25 15:24	0°♂
asc. node	1735 Jan 13 08:21	7°♁33'46			1740 Jan 05 11:38	0°♄
	1735 Feb 15 18:01	0°♄		morning rise	1740 Jan 07 02:07	1°♄12'11
	1735 Apr 01 21:54	0°♁			1740 Feb 13 20:52	0°♁
	1735 May 18 02:17	0°♄			1740 Mar 23 11:52	0°♂
	1735 Jul 04 02:43	0°♁			1740 May 01 04:49	0°♁
evening set	1735 Jul 15 04:15	7°♁01'07			1740 Jun 09 23:39	0°♄
	1735 Aug 20 09:10	0°♁			1740 Jul 22 02:46	0°♁
max. Earth dist.	1735 Aug 24 17:50	2°♁46'34	2.67441 AU	asc. node	1740 Sep 04 05:32	28°♁22'01
					1740 Sep 06 23:47	0°♄
conjunction	1735 Aug 30 05:18	6°♁15'59	1°05'31		1740 Nov 12 07:44	0°♁
minimum elong	1735 Aug 30 05:57	6°♁17'02	1°05'30	retrograde	1740 Dec 03 18:06	2°♁46'33
	1735 Oct 06 05:07	0°♁			1740 Dec 23 19:44	30°♁♄
morning rise	1735 Oct 13 13:48	4°♁45'57		min. Earth dist.	1741 Jan 09 12:53	24°♁08'40 0.64551 AU
	1735 Nov 21 02:38	0°♁		opposition	1741 Jan 12 20:08	22°♁49'15 4°14'23
	1736 Jan 04 21:37	0°♂		greatest brilliancy	1741 Jan 12 03:07	23°♁06'18 -1.4m
desc. node	1736 Jan 31 08:56	18°♂04'20		direct	1741 Feb 20 21:04	13°♁34'43
	1736 Feb 17 15:48	0°♄			1741 Apr 23 01:32	0°♁
	1736 Mar 31 16:39	0°♁			1741 Jun 20 05:45	0°♁
	1736 May 13 19:55	0°♂			1741 Aug 09 03:31	0°♁
	1736 Jun 28 20:28	0°♁		desc. node	1741 Sep 22 05:58	28°♁50'43
retrograde	1736 Sep 07 20:42	26°♁32'28			1741 Sep 23 22:50	0°♁
min. Earth dist.	1736 Oct 04 17:43	21°♁44'32	0.42104 AU		1741 Nov 05 16:51	0°♂
greatest brilliancy	1736 Oct 11 06:56	19°♁37'46	-2.6m	evening set	1741 Nov 11 12:12	4°♂13'09
opposition	1736 Oct 12 08:37	19°♁16'59	-2°-55'-36	max. Earth dist.	1741 Nov 29 11:03	17°♂27'45 2.41724 AU
direct	1736 Nov 12 13:18	13°♁19'05			1741 Dec 16 02:38	0°♄
asc. node	1736 Nov 30 06:51	15°♁15'56				

conjunction	1742 Jan 07 16:56	17°☾20'41	0°-56'-38			1747 Jan 19 18:55	0°♈	
minimum elong	1742 Jan 07 14:51	17°☾16'38	0°56'38	retrograde		1747 Mar 26 13:33	18°♈38'16	
	1742 Jan 23 22:55	0°≈		opposition		1747 May 01 18:58	10°♈56'12	0°36'30
	1742 Mar 03 02:04	0°☿		greatest brilliancy		1747 May 02 02:07	10°♈49'41	-1.8m
morning rise	1742 Mar 15 09:43	9°☿41'50		min. Earth dist.		1747 May 09 12:44	8°♈06'42	0.54689 AU
	1742 Apr 10 09:23	0°♃		desc. node		1747 May 15 02:15	6°♈12'20	
	1742 May 19 18:05	0°♄		direct		1747 Jun 10 13:58	1°♈35'33	
	1742 Jun 30 00:17	0°♅				1747 Aug 27 01:23	0°♁	
asc. node	1742 Jul 23 03:34	16°♅02'07				1747 Oct 11 08:31	0°♁	
	1742 Aug 13 02:02	0°♆				1747 Nov 20 22:42	0°≈	
	1742 Sep 30 16:25	0°♁				1747 Dec 30 02:59	0°♁	
	1742 Dec 02 02:09	0°♂				1748 Feb 07 11:33	0°♃	
retrograde	1743 Jan 07 06:03	6°♂53'57		asc. node		1748 Mar 14 01:23	26°♃23'16	
	1743 Feb 09 07:54	30°♂♂				1748 Mar 19 00:39	0°♄	
opposition	1743 Feb 16 07:10	27°♂16'20	4°29'15			1748 Apr 30 08:00	0°♅	
greatest brilliancy	1743 Feb 16 08:50	27°♂14'40	-1.2m	evening set		1748 May 17 10:28	11°♅45'11	
min. Earth dist.	1743 Feb 16 21:05	27°♂02'28	0.67771 AU			1748 Jun 13 13:15	0°♆	
direct	1743 Mar 29 05:36	17°♂24'19						
	1743 May 20 05:03	0°♁		conjunction		1748 Jul 08 04:53	16°♆14'11	0°58'14
	1743 Jul 17 20:05	0°♂		minimum elong		1748 Jul 08 03:35	16°♆12'05	0°58'13
desc. node	1743 Aug 10 04:33	14°♂08'44		max. Earth dist.		1748 Jul 23 02:32	25°♆55'05	2.63973 AU
	1743 Sep 03 18:38	0°♈				1748 Jul 29 10:14	0°♁	
	1743 Oct 17 02:17	0°♁		morning rise		1748 Aug 24 18:52	16°♁52'53	
	1743 Nov 26 12:15	0°♂				1748 Sep 14 11:15	0°♂	
	1744 Jan 04 04:32	0°≈				1748 Nov 01 06:32	0°♃	
evening set	1744 Jan 11 20:07	6°≈01'24				1748 Dec 19 23:02	0°♈	
	1744 Feb 11 03:59	0°☿				1749 Feb 08 20:25	0°♁	
				desc. node		1749 Apr 01 00:50	26°♁19'20	
conjunction	1744 Mar 19 17:31	29°☿28'10	0°-48'-13			1749 Apr 09 18:10	0°♂	
minimum elong	1744 Mar 19 20:44	29°☿34'25	0°48'13	retrograde		1749 May 25 18:15	10°♂36'24	
	1744 Mar 20 09:56	0°♃		opposition		1749 Jun 26 13:45	4°♂55'09	-4°-38'-58
	1744 Apr 28 19:07	0°♄		greatest brilliancy		1749 Jun 28 03:19	4°♂26'53	-2.6m
max. Earth dist.	1744 May 10 10:54	8°♄38'32	2.41911 AU	min. Earth dist.		1749 Jul 03 18:07	2°♂46'16	0.41700 AU
morning rise	1744 May 26 02:51	20°♄03'54				1749 Jul 14 11:17	30°♂♂	
	1744 Jun 08 23:58	0°♅		direct		1749 Jul 30 16:32	28°♂12'39	
asc. node	1744 Jun 09 03:03	0°♅05'28				1749 Aug 15 23:48	0°♂	
	1744 Jul 22 12:09	0°♆				1749 Oct 18 14:29	0°≈	
	1744 Sep 06 18:00	0°♁				1749 Dec 02 02:37	0°☿	
	1744 Oct 26 20:45	0°♂				1750 Jan 13 11:04	0°♃	
	1744 Dec 26 13:59	0°♃		asc. node		1750 Jan 30 00:15	11°♃42'26	
retrograde	1745 Feb 11 05:45	10°♃29'45				1750 Feb 25 03:34	0°♄	
opposition	1745 Mar 22 02:30	1°♃34'48	3°23'26			1750 Apr 10 02:05	0°♅	
greatest brilliancy	1745 Mar 22 19:44	1°♃18'04	-1.4m			1750 May 25 11:44	0°♆	
	1745 Mar 26 04:03	30°♂♂		evening set		1750 Jun 30 01:02	22°♆57'15	
min. Earth dist.	1745 Mar 26 12:56	29°♂51'25	0.64367 AU			1750 Jul 11 01:15	0°♁	
direct	1745 May 02 12:33	21°♂33'25						
	1745 Jun 11 17:38	0°♂		conjunction		1750 Aug 16 00:11	22°♁54'34	1°08'47
desc. node	1745 Jun 27 03:12	6°♂26'16		minimum elong		1750 Aug 16 00:22	22°♁54'51	1°08'47
	1745 Aug 09 18:51	0°♈		max. Earth dist.		1750 Aug 15 20:14	22°♁48'16	2.67534 AU
	1745 Sep 24 12:49	0°♁				1750 Aug 27 03:37	0°♂	
	1745 Nov 04 17:31	0°♂		morning rise		1750 Sep 29 15:22	21°♂22'05	
	1745 Dec 13 17:05	0°≈				1750 Oct 13 02:28	0°♃	
	1746 Jan 20 21:38	0°☿				1750 Nov 28 11:18	0°♈	
	1746 Feb 28 10:01	0°♃				1751 Jan 13 04:02	0°♁	
evening set	1746 Mar 22 21:19	17°♃06'53		desc. node		1751 Feb 17 00:18	23°♂05'37	
	1746 Apr 09 03:31	0°♄				1751 Feb 27 09:47	0°♂	
asc. node	1746 Apr 27 02:44	13°♄09'14				1751 Apr 13 20:17	0°≈	
	1746 May 20 16:38	0°♅				1751 May 31 18:48	0°☿	
				retrograde		1751 Aug 14 03:05	27°☿23'38	
conjunction	1746 May 23 01:22	1°♅39'50	0°16'11	min. Earth dist.		1751 Sep 10 02:39	22°☿55'43	0.38402 AU
minimum elong	1746 May 23 00:24	1°♅38'07	0°16'10	opposition		1751 Sep 14 20:19	21°☿35'13	-5°-32'-26
max. Earth dist.	1746 Jun 25 17:18	24°♅52'16	2.55041 AU	greatest brilliancy		1751 Sep 13 20:13	21°☿52'22	-2.8m
	1746 Jul 03 08:00	0°♆		direct		1751 Oct 14 15:07	16°☿27'30	
morning rise	1746 Jul 16 21:14	9°♆01'59				1751 Dec 03 23:14	0°♃	
	1746 Aug 18 01:00	0°♁		asc. node		1751 Dec 17 23:36	6°♃50'58	
	1746 Oct 04 18:08	0°♂				1752 Jan 28 01:30	0°♄	
	1746 Nov 24 01:12	0°♃				1752 Mar 17 01:09	0°♅	

	1752 May 04 04:04	0°☉		minimum elong	1756 Dec 15 07:49	23°♁54'18	0°39'16
	1752 Jun 21 05:35	0°♁			1756 Dec 23 09:59	0°☉	
evening set	1752 Aug 06 00:04	28°♁45'07			1757 Jan 31 10:41	0°≈	
	1752 Aug 07 23:23	0°♍		morning rise	1757 Feb 13 22:00	10°≈31'18	
max. Earth dist.	1752 Sep 07 04:48	19°♍16'19	2.65664 AU		1757 Mar 10 17:41	0°♁	
				greatest brilliancy	1757 Apr 05 13:13	20°♁12'49	1.2m
conjunction	1752 Sep 20 11:44	27°♍50'50	0°52'45		1757 Apr 18 03:34	0°♍	
minimum elong	1752 Sep 20 12:51	27°♍52'38	0°52'45		1757 May 27 14:07	0°♁	
	1752 Sep 23 19:24	0°♁			1757 Jul 08 00:18	0°♁	
morning rise	1752 Nov 04 08:45	27°♁23'22		asc. node	1757 Aug 08 20:59	21°♁41'47	
	1752 Nov 08 06:10	0°♁			1757 Aug 21 15:52	0°☉	
	1752 Dec 22 03:08	0°♁			1757 Oct 11 15:09	0°♁	
desc. node	1753 Jan 04 00:10	9°♁00'43		retrograde	1757 Dec 24 22:54	24°♁08'52	
	1753 Feb 02 12:06	0°☉		min. Earth dist.	1758 Feb 02 04:40	14°♁43'07	0.67284 AU
	1753 Mar 15 16:04	0°≈		opposition	1758 Feb 03 03:20	14°♁20'25	4°33'27
	1753 Apr 25 04:18	0°♁		greatest brilliancy	1758 Feb 02 21:18	14°♁26'28	-1.2m
	1753 Jun 05 02:50	0°♍		direct	1758 Mar 15 11:25	4°♁39'52	
	1753 Jul 18 22:47	0°♁			1758 Jun 03 07:25	0°♍	
	1753 Sep 16 12:46	0°♁			1758 Jul 26 18:30	0°♁	
retrograde	1753 Oct 10 08:47	3°♁47'11		desc. node	1758 Aug 26 19:53	19°♁33'59	
	1753 Nov 02 06:32	30°♁			1758 Sep 11 14:26	0°♁	
asc. node	1753 Nov 03 21:53	29°♁28'33			1758 Oct 24 14:42	0°♁	
min. Earth dist.	1753 Nov 08 23:19	27°♁43'53	0.50062 AU		1758 Dec 03 23:37	0°☉	
opposition	1753 Nov 16 22:20	24°♁47'41	0°40'42	evening set	1758 Dec 16 16:10	9°☉43'43	
greatest brilliancy	1753 Nov 16 14:10	24°♁55'14	-2.1m		1759 Jan 11 16:42	0°≈	
direct	1753 Dec 21 03:04	17°♁26'14			1759 Feb 18 16:57	0°♁	
	1754 Feb 09 12:00	0°♁					
	1754 Apr 10 00:49	0°☉		conjunction	1759 Feb 19 12:56	0°♁39'28	-1°3'-4
	1754 May 31 21:40	0°♁		minimum elong	1759 Feb 19 14:26	0°♁42'27	1°03'05
	1754 Jul 20 05:42	0°♍		max. Earth dist.	1759 Mar 21 01:59	23°♁52'50	2.37411 AU
	1754 Sep 05 13:09	0°♁			1759 Mar 28 22:39	0°♍	
evening set	1754 Sep 12 10:24	4°♁28'47		morning rise	1759 May 01 02:40	25°♍22'40	
max. Earth dist.	1754 Oct 03 04:08	18°♁10'09	2.58510 AU		1759 May 07 06:33	0°♁	
	1754 Oct 20 17:32	0°♁			1759 Jun 17 10:17	0°♁	
				asc. node	1759 Jun 26 19:35	6°♁37'14	
conjunction	1754 Oct 29 10:39	5°♁57'22	0°13'50		1759 Jul 31 00:21	0°☉	
minimum elong	1754 Oct 29 11:11	5°♁58'17	0°13'50		1759 Sep 15 18:58	0°♁	
behind sun begin	1754 Oct 29 00:36	5°♁40'07			1759 Nov 07 01:43	0°♍	
behind sun end	1754 Oct 29 21:47	6°♁16'28		retrograde	1760 Jan 28 18:37	27°♍23'38	
desc. node	1754 Nov 21 22:39	22°♁18'46		opposition	1760 Mar 08 05:36	18°♍09'12	3°58'43
	1754 Dec 02 18:47	0°♁		greatest brilliancy	1760 Mar 08 18:01	17°♍56'59	-1.3m
morning rise	1754 Dec 17 12:24	10°♁35'50		min. Earth dist.	1760 Mar 11 04:04	16°♍59'52	0.66482 AU
	1755 Jan 12 22:35	0°☉		direct	1760 Apr 18 15:22	8°♍07'31	
	1755 Feb 21 16:06	0°≈			1760 Jun 28 17:20	0°♁	
	1755 Apr 01 14:49	0°♁		desc. node	1760 Jul 13 18:51	7°♁58'37	
	1755 May 10 14:49	0°♍			1760 Aug 19 15:46	0°♁	
	1755 Jun 19 18:48	0°♁			1760 Oct 03 01:45	0°♁	
	1755 Aug 01 19:13	0°♁			1760 Nov 12 20:08	0°☉	
asc. node	1755 Sep 21 20:57	0°☉23'02			1760 Dec 21 15:07	0°≈	
	1755 Sep 21 02:53	0°☉			1761 Jan 28 16:18	0°♁	
retrograde	1755 Nov 20 17:41	18°☉30'50		evening set	1761 Feb 24 01:57	20°♁43'13	
min. Earth dist.	1755 Dec 25 17:07	10°☉29'18	0.61530 AU		1761 Mar 08 00:49	0°♍	
opposition	1755 Dec 30 12:06	8°☉34'46	3°43'29		1761 Apr 16 13:40	0°♁	
greatest brilliancy	1755 Dec 29 14:10	8°☉56'39	-1.5m				
	1756 Jan 30 20:29	30°♁		conjunction	1761 Apr 30 11:27	10°♁15'11	0°-8'-32
direct	1756 Feb 06 10:40	29°♁43'04		minimum elong	1761 Apr 30 12:05	10°♁16'21	0°08'33
	1756 Feb 13 05:40	0°☉		behind sun begin	1761 Apr 29 13:38	9°♁35'18	
	1756 May 06 00:48	0°♁		behind sun end	1761 May 01 10:32	10°♁57'22	
	1756 Jun 28 19:37	0°♍		asc. node	1761 May 13 18:01	19°♁53'08	
	1756 Aug 16 14:38	0°♁			1761 May 27 22:13	0°♁	
	1756 Oct 01 02:27	0°♁		max. Earth dist.	1761 Jun 11 17:11	10°♁22'20	2.50252 AU
desc. node	1756 Oct 08 21:05	5°♁19'30		morning rise	1761 Jun 28 18:21	22°♁06'00	
evening set	1756 Oct 23 09:49	15°♁25'56			1761 Jul 10 10:35	0°☉	
max. Earth dist.	1756 Nov 06 21:55	25°♁43'24	2.46870 AU		1761 Aug 25 05:39	0°♁	
	1756 Nov 12 20:40	0°♁			1761 Oct 12 12:55	0°♍	
					1761 Dec 03 22:02	0°♁	
conjunction	1756 Dec 15 09:42	23°♁57'50	0°-39'-16		1762 Feb 12 18:42	0°♁	

retrograde	1762 Mar 08 08:27	3°♁01'44			1767 Jun 29 08:33	0°♁		
	1762 Mar 30 06:10	30°♁		evening set	1767 Jul 23 14:29	15°♁19'16		
opposition	1762 Apr 14 19:28	24°♁46'22	1°56'20		1767 Aug 15 18:29	0°♁		
greatest brilliancy	1762 Apr 15 12:20	24°♁30'27	-1.6m	max. Earth dist.	1767 Aug 29 23:43	9°♁03'12	2.67044 AU	
min. Earth dist.	1762 Apr 21 09:39	22°♁17'14	0.59142 AU					
direct	1762 May 25 13:31	15°♁00'41		conjunction	1767 Sep 07 07:33	14°♁22'30	1°01'51	
desc. node	1762 May 31 17:17	15°♁15'26		minimum elong	1767 Sep 07 08:26	14°♁23'55	1°01'50	
	1762 Jul 18 18:32	0°♁			1767 Oct 01 14:08	0°♁		
	1762 Sep 08 13:48	0°♁		morning rise	1767 Oct 21 16:50	13°♁05'39		
	1762 Oct 21 09:34	0°♁			1767 Nov 16 07:35	0°♁		
	1762 Nov 30 01:51	0°♁			1767 Dec 30 17:58	0°♁		
	1763 Jan 07 17:09	0°♁		desc. node	1768 Jan 21 15:14	15°♁06'01		
	1763 Feb 15 15:02	0°♁			1768 Feb 11 22:47	0°♁		
	1763 Mar 27 18:00	0°♁			1768 Mar 25 04:12	0°♁		
asc. node	1763 Mar 31 17:56	2°♁55'15			1768 May 06 01:34	0°♁		
evening set	1763 Apr 28 10:43	22°♁48'42			1768 Jun 18 06:40	0°♁		
	1763 May 08 16:10	0°♁			1768 Aug 08 10:44	0°♁		
	1763 Jun 21 14:08	0°♁		retrograde	1768 Sep 20 13:07	11°♁25'12		
				min. Earth dist.	1768 Oct 18 02:53	6°♁13'47	0.44784 AU	
conjunction	1763 Jun 22 07:09	0°♁28'26	0°45'54	opposition	1768 Oct 26 07:32	3°♁25'54	-1°-27'-44	
minimum elong	1763 Jun 22 05:32	0°♁25'43	0°45'54	greatest brilliancy	1768 Oct 25 16:11	3°♁39'03	-2.4m	
max. Earth dist.	1763 Jul 13 22:12	14°♁47'12	2.61098 AU		1768 Nov 06 04:35	30°♁		
	1763 Aug 06 07:47	0°♁		asc. node	1768 Nov 20 14:25	27°♁16'25		
morning rise	1763 Aug 11 01:40	3°♁03'21		direct	1768 Nov 27 13:58	26°♁56'51		
	1763 Sep 22 12:12	0°♁			1768 Dec 20 03:41	0°♁		
	1763 Nov 09 23:28	0°♁			1769 Feb 26 11:40	0°♁		
	1763 Dec 30 11:34	0°♁			1769 Apr 19 21:27	0°♁		
	1764 Feb 25 04:48	0°♁			1769 Jun 08 18:45	0°♁		
desc. node	1764 Apr 17 16:51	17°♁11'51			1769 Jul 27 08:04	0°♁		
retrograde	1764 Apr 28 19:01	17°♁55'50		evening set	1769 Aug 28 16:29	20°♁30'24		
opposition	1764 Jun 01 12:50	11°♁22'04	-2°-20'-8		1769 Sep 12 09:26	0°♁		
greatest brilliancy	1764 Jun 02 14:05	11°♁01'00	-2.3m	max. Earth dist.	1769 Sep 22 14:38	6°♁39'52	2.61904 AU	
min. Earth dist.	1764 Jun 09 22:26	8°♁34'53	0.46660 AU					
direct	1764 Jul 08 11:02	3°♁20'07		conjunction	1769 Oct 13 16:44	20°♁37'15	0°31'20	
	1764 Sep 18 14:36	0°♁		minimum elong	1769 Oct 13 17:44	20°♁38'55	0°31'19	
	1764 Nov 02 11:55	0°♁			1769 Oct 27 15:13	0°♁		
	1764 Dec 13 14:19	0°♁		morning rise	1769 Nov 29 11:58	22°♁38'38		
	1765 Jan 23 05:34	0°♁		desc. node	1769 Dec 08 14:00	29°♁02'13		
asc. node	1765 Feb 15 16:14	17°♁02'54			1769 Dec 09 22:41	0°♁		
	1765 Mar 05 18:40	0°♁			1770 Jan 20 11:56	0°♁		
	1765 Apr 17 21:31	0°♁			1770 Mar 01 16:05	0°♁		
	1765 Jun 01 17:13	0°♁			1770 Apr 10 01:35	0°♁		
evening set	1765 Jun 14 02:37	8°♁07'04			1770 May 19 13:03	0°♁		
	1765 Jul 17 22:25	0°♁			1770 Jun 29 10:14	0°♁		
					1770 Aug 13 07:06	0°♁		
conjunction	1765 Aug 01 11:46	9°♁19'28	1°08'05	asc. node	1770 Oct 08 14:03	27°♁56'41		
minimum elong	1765 Aug 01 11:23	9°♁18'51	1°08'05		1770 Oct 15 14:46	0°♁		
max. Earth dist.	1765 Aug 07 00:22	12°♁51'10	2.66799 AU	retrograde	1770 Nov 05 19:07	2°♁52'51		
	1765 Sep 02 22:32	0°♁			1770 Nov 25 19:00	30°♁		
morning rise	1765 Sep 15 20:45	8°♁13'02		min. Earth dist.	1770 Dec 08 18:42	25°♁33'03	0.57591 AU	
	1765 Oct 20 02:50	0°♁		opposition	1770 Dec 14 23:19	23°♁07'18	2°53'13	
	1765 Dec 06 03:45	0°♁		greatest brilliancy	1770 Dec 14 00:17	23°♁29'56	-1.7m	
	1766 Jan 22 04:18	0°♁		direct	1771 Jan 20 14:27	14°♁44'43		
desc. node	1766 Mar 05 16:17	26°♁45'30			1771 Mar 19 08:44	0°♁		
	1766 Mar 10 21:56	0°♁			1771 May 17 08:04	0°♁		
	1766 Apr 30 21:14	0°♁			1771 Jul 07 18:18	0°♁		
retrograde	1766 Jul 14 09:55	25°♁40'02			1771 Aug 24 19:41	0°♁		
opposition	1766 Aug 13 13:44	20°♁41'29	-6°-52'-6	evening set	1771 Oct 07 03:09	28°♁37'55		
greatest brilliancy	1766 Aug 13 19:09	20°♁37'55	-2.9m		1771 Oct 09 03:23	0°♁		
min. Earth dist.	1766 Aug 13 22:52	20°♁35'28	0.37326 AU	max. Earth dist.	1771 Oct 22 19:22	9°♁23'39	2.51844 AU	
direct	1766 Sep 12 09:25	15°♁42'50		desc. node	1771 Oct 26 12:42	11°♁58'50		
	1766 Nov 02 04:18	0°♁			1771 Nov 20 23:31	0°♁		
	1766 Dec 24 12:34	0°♁						
asc. node	1767 Jan 03 14:20	6°♁22'11		conjunction	1771 Nov 26 02:10	3°♁41'09	0°-18'-23	
	1767 Feb 09 03:47	0°♁		minimum elong	1771 Nov 26 01:18	3°♁39'35	0°18'23	
	1767 Mar 27 07:04	0°♁			1771 Dec 31 17:39	0°♁		
	1767 May 13 00:33	0°♁		morning rise	1772 Jan 20 00:56	14°♁38'31		

	1772 Feb 08 23:44	0°♊		min. Earth dist.	1777 Apr 04 14:47	7°♌58'58	0.62781 AU
	1772 Mar 18 11:28	0°♋		direct	1777 May 10 15:42	0°♌01'23	
	1772 Apr 26 01:05	0°♌		desc. node	1777 Jun 17 10:04	7°♌40'39	
	1772 Jun 04 15:22	0°♍			1777 Aug 02 13:59	0°♍	
	1772 Jul 16 09:33	0°♎			1777 Sep 18 17:45	0°♎	
asc. node	1772 Aug 25 12:14	26°♎31'21			1777 Oct 30 09:23	0°♏	
	1772 Aug 31 02:52	0°♏			1777 Dec 08 13:30	0°♏	
	1772 Oct 26 13:23	0°♐			1778 Jan 15 20:46	0°♐	
retrograde	1772 Dec 11 14:08	11°♐02'25			1778 Feb 23 11:26	0°♑	
min. Earth dist.	1773 Jan 18 06:56	2°♐06'13	0.65801 AU		1778 Apr 04 07:05	0°♑	
opposition	1773 Jan 20 18:03	1°♐06'53	4°25'26	evening set	1778 Apr 05 23:03	1°♑13'41	
greatest brilliancy	1773 Jan 20 04:37	1°♐20'22	-1.3m	asc. node	1778 Apr 17 08:50	9°♑34'28	
	1773 Jan 23 12:59	30°♑♌			1778 May 15 22:20	0°♒	
direct	1773 Mar 01 07:12	21°♑41'53					
	1773 Apr 11 08:58	0°♒		conjunction	1778 Jun 03 16:47	13°♒03'45	0°28'32
	1773 Jun 14 00:13	0°♓		minimum elong	1778 Jun 03 15:19	13°♒01'15	0°28'31
	1773 Aug 03 22:37	0°♈			1778 Jun 28 14:57	0°♈	
desc. node	1773 Sep 12 11:18	25°♈32'34		max. Earth dist.	1778 Jul 02 19:49	2°♈48'50	2.57430 AU
	1773 Sep 19 02:18	0°♉		morning rise	1778 Jul 26 10:33	18°♈25'00	
	1773 Oct 31 22:54	0°♊			1778 Aug 13 07:04	0°♉	
evening set	1773 Nov 23 10:19	16°♊29'54			1778 Sep 29 17:48	0°♊	
	1773 Dec 11 08:55	0°♋			1778 Nov 18 04:46	0°♋	
max. Earth dist.	1773 Dec 18 08:29	5°♋19'38	2.39162 AU		1779 Jan 10 18:56	0°♌	
	1774 Jan 19 04:17	0°♌		retrograde	1779 Apr 07 00:17	28°♌47'30	
				desc. node	1779 May 05 08:20	23°♌52'17	
conjunction	1774 Jan 22 07:49	2°♌28'03	-1°-2'-50	opposition	1779 May 12 10:09	21°♌27'01	0°-20'-26
minimum elong	1774 Jan 22 06:29	2°♌25'26	1°02'50	greatest brilliancy	1779 May 11 06:44	21°♌51'19	-2.0m
	1774 Feb 26 06:20	0°♍		min. Earth dist.	1779 May 20 14:10	18°♌32'39	0.51952 AU
morning rise	1774 Apr 01 15:03	26°♍58'05		direct	1779 Jun 20 09:30	12°♌27'48	
	1774 Apr 05 12:39	0°♎			1779 Aug 16 18:00	0°♍	
	1774 May 14 20:03	0°♏			1779 Oct 04 06:50	0°♎	
	1774 Jun 24 23:52	0°♐			1779 Nov 14 19:41	0°♏	
asc. node	1774 Jul 13 11:47	12°♐55'46			1779 Dec 24 11:17	0°♐	
	1774 Aug 07 18:49	0°♑			1780 Feb 02 03:40	0°♑	
	1774 Sep 24 11:13	0°♒		asc. node	1780 Mar 04 08:38	23°♑02'55	
	1774 Nov 20 01:48	0°♓			1780 Mar 13 22:47	0°♒	
retrograde	1775 Jan 14 23:58	14°♓38'13			1780 Apr 25 11:08	0°♓	
opposition	1775 Feb 23 20:57	5°♓07'51	4°21'26	evening set	1780 May 27 22:54	22°♓04'59	
greatest brilliancy	1775 Feb 24 02:44	5°♓02'06	-1.2m		1780 Jun 08 20:00	0°♈	
min. Earth dist.	1775 Feb 25 07:04	4°♓33'58	0.67588 AU				
	1775 Mar 09 11:31	30°♈♌		conjunction	1780 Jul 17 07:59	25°♈11'22	1°03'11
direct	1775 Apr 06 00:35	25°♈11'09		minimum elong	1780 Jul 17 07:00	25°♈09'45	1°03'11
	1775 May 06 04:09	0°♉			1780 Jul 24 18:55	0°♉	
desc. node	1775 Jul 11 08:52	11°♉43'50		max. Earth dist.	1780 Jul 28 18:25	2°♉33'40	2.65216 AU
	1775 Aug 29 09:50	0°♊		morning rise	1780 Sep 01 23:04	25°♉02'24	
	1775 Oct 12 01:44	0°♋			1780 Sep 09 18:41	0°♊	
	1775 Nov 21 14:38	0°♌			1780 Oct 27 07:24	0°♋	
	1775 Dec 30 07:43	0°♍			1780 Dec 14 06:41	0°♌	
evening set	1776 Jan 27 16:55	22°♍24'09		desc. node	1781 Feb 01 08:28	0°♍	
	1776 Feb 06 07:35	0°♎			1781 Mar 22 07:16	27°♍56'34	
	1776 Mar 15 14:03	0°♏			1781 Mar 26 04:45	0°♎	
				retrograde	1781 Jun 12 00:33	25°♎52'18	
conjunction	1776 Apr 04 15:40	15°♏25'16	0°-34'-51	opposition	1781 Jul 12 18:49	20°♎37'00	-5°-51'-49
minimum elong	1776 Apr 04 18:24	15°♏30'28	0°34'51	greatest brilliancy	1781 Jul 14 05:05	20°♎12'44	-2.7m
	1776 Apr 23 23:49	0°♐		min. Earth dist.	1781 Jul 18 04:42	19°♎05'17	0.39474 AU
max. Earth dist.	1776 May 24 07:52	22°♐13'40	2.44939 AU	direct	1781 Aug 14 04:56	14°♎41'01	
asc. node	1776 May 30 10:44	26°♐36'44			1781 Oct 04 19:57	0°♏	
	1776 Jun 04 05:01	0°♑			1781 Nov 23 13:35	0°♐	
morning rise	1776 Jun 08 04:08	2°♑48'18		asc. node	1782 Jan 06 16:13	0°♑	
	1776 Jul 17 15:51	0°♒			1782 Jan 20 08:00	9°♑25'15	
	1776 Sep 01 15:42	0°♓			1782 Feb 19 07:15	0°♒	
	1776 Oct 20 21:24	0°♈			1782 Apr 04 19:44	0°♓	
	1776 Dec 16 02:55	0°♉			1782 May 20 14:08	0°♈	
retrograde	1777 Feb 19 23:12	18°♉42'21		evening set	1782 Jul 06 08:54	0°♉	
opposition	1777 Mar 30 09:17	9°♉59'54	2°56'11	max. Earth dist.	1782 Jul 08 19:06	1°♉32'41	
greatest brilliancy	1777 Mar 31 03:43	9°♉42'09	-1.4m		1782 Aug 21 02:25	29°♉04'41	2.67587 AU
					1782 Aug 22 13:12	0°♊	

conjunction	1782 Aug 24 04:37	1°♄02'42	1°07'19	asc. node	1787 Sep 12 05:22	29°♃56'28	
minimum elong	1782 Aug 24 05:05	1°♄03'28	1°07'19		1787 Sep 12 07:52	0°♄	
morning rise	1782 Oct 07 14:27	29°♄27'36		retrograde	1787 Nov 28 21:00	27°♄16'05	
	1782 Oct 08 10:34	0°♄		min. Earth dist.	1788 Jan 03 20:27	18°♄53'56	0.63314 AU
	1782 Nov 23 13:22	0°♃		opposition	1788 Jan 07 19:56	17°♄18'22	4°03'39
	1783 Jan 07 17:41	0°♂		greatest brilliancy	1788 Jan 07 00:16	17°♄38'04	-1.4m
desc. node	1783 Feb 07 07:00	20°♂36'49		direct	1788 Feb 15 09:14	8°♄13'32	
	1783 Feb 21 02:26	0°♂			1788 Apr 28 02:43	0°♃	
	1783 Apr 06 00:25	0°♁			1788 Jun 23 04:35	0°♄	
	1783 May 20 15:29	0°♁			1788 Aug 11 15:31	0°♄	
	1783 Jul 09 23:33	0°♂			1788 Sep 26 09:01	0°♃	
retrograde	1783 Aug 29 05:01	14°♂45'53		desc. node	1788 Sep 29 03:48	1°♃53'38	
min. Earth dist.	1783 Sep 24 19:54	10°♂12'13	0.40191 AU	evening set	1788 Nov 02 23:21	26°♃15'14	
greatest brilliancy	1783 Sep 30 07:19	8°♂32'03	-2.7m		1788 Nov 08 04:18	0°♂	
opposition	1783 Oct 01 12:00	8°♂10'05	-4°-6'-9	max. Earth dist.	1788 Nov 18 11:41	7°♂29'32	2.43997 AU
direct	1783 Oct 31 22:15	2°♂37'01			1788 Dec 18 16:38	0°♂	
asc. node	1783 Dec 08 06:23	10°♂29'05					
	1784 Jan 18 13:04	0°♂		conjunction	1788 Dec 28 04:03	7°♂12'46	0°-49'-56
	1784 Mar 10 11:16	0°♃		minimum elong	1788 Dec 28 01:51	7°♂08'35	0°49'56
	1784 Apr 28 17:05	0°♄			1789 Jan 26 15:16	0°♁	
	1784 Jun 16 07:28	0°♃		morning rise	1789 Mar 02 04:54	27°♁08'33	
	1784 Aug 03 07:13	0°♄			1789 Mar 05 20:02	0°♁	
evening set	1784 Aug 14 05:54	6°♄55'33			1789 Apr 13 04:01	0°♂	
max. Earth dist.	1784 Sep 12 17:42	25°♄48'33	2.64544 AU		1789 May 22 12:25	0°♂	
	1784 Sep 19 04:55	0°♄			1789 Jul 02 18:37	0°♃	
				asc. node	1789 Jul 30 03:04	18°♃51'24	
conjunction	1784 Sep 28 19:08	6°♄15'03	0°45'49		1789 Aug 15 23:28	0°♄	
minimum elong	1784 Sep 28 20:17	6°♄16'56	0°45'48		1789 Oct 04 06:18	0°♃	
	1784 Nov 03 13:59	0°♃			1789 Dec 14 06:22	0°♄	
morning rise	1784 Nov 13 04:10	6°♃29'24		retrograde	1790 Jan 01 14:39	1°♄57'54	
	1784 Dec 17 06:04	0°♂			1790 Jan 18 19:49	30°♃♂	
desc. node	1784 Dec 25 05:34	5°♂36'27		opposition	1790 Feb 10 17:15	22°♃14'59	4°32'22
	1785 Jan 28 07:43	0°♂		greatest brilliancy	1790 Feb 10 15:28	22°♃16'45	-1.2m
	1785 Mar 10 02:14	0°♁		min. Earth dist.	1790 Feb 10 14:38	22°♃17'35	0.67684 AU
	1785 Apr 19 03:00	0°♁		direct	1790 Mar 23 09:29	12°♃27'40	
	1785 May 29 08:55	0°♂			1790 May 25 20:43	0°♄	
	1785 Jul 10 15:12	0°♂			1790 Jul 21 00:05	0°♄	
	1785 Aug 29 07:20	0°♃		desc. node	1790 Aug 17 02:37	16°♄42'08	
retrograde	1785 Oct 20 12:08	15°♃20'35			1790 Sep 06 12:24	0°♃	
asc. node	1785 Oct 25 05:41	15°♃10'43			1790 Oct 19 18:09	0°♂	
min. Earth dist.	1785 Nov 20 07:50	8°♃48'27	0.52885 AU		1790 Nov 29 04:50	0°♂	
opposition	1785 Nov 27 18:02	5°♃59'10	1°38'06	evening set	1790 Dec 31 01:23	24°♂37'19	
greatest brilliancy	1785 Nov 27 00:59	6°♃15'25	-2.0m		1791 Jan 06 21:57	0°♁	
	1785 Dec 16 15:20	30°♃♂			1791 Feb 13 21:39	0°♁	
direct	1786 Jan 01 20:47	28°♂13'23					
	1786 Jan 19 01:44	0°♃		conjunction	1791 Mar 08 00:47	17°♁26'20	0°-56'-18
	1786 Apr 02 16:49	0°♄		minimum elong	1791 Mar 08 03:40	17°♁32'00	0°56'17
	1786 May 26 08:07	0°♃			1791 Mar 24 02:56	0°♂	
	1786 Jul 15 07:17	0°♄		max. Earth dist.	1791 Apr 26 08:21	25°♂25'59	2.39607 AU
	1786 Aug 31 20:41	0°♄			1791 May 02 10:23	0°♂	
evening set	1786 Sep 21 03:56	13°♄16'24		morning rise	1791 May 16 07:18	10°♂17'31	
max. Earth dist.	1786 Oct 09 21:25	25°♄47'29	2.56293 AU		1791 Jun 12 13:10	0°♃	
	1786 Oct 16 02:23	0°♃		asc. node	1791 Jun 17 02:11	3°♃13'05	
					1791 Jul 26 00:19	0°♄	
conjunction	1786 Nov 08 00:40	15°♃49'00	0°02'31		1791 Sep 10 09:01	0°♃	
minimum elong	1786 Nov 08 00:45	15°♃49'10	0°02'31		1791 Oct 31 03:30	0°♄	
behind sun begin	1786 Nov 07 04:15	15°♃13'22			1792 Jan 05 04:09	0°♄	
behind sun end	1786 Nov 08 21:16	16°♃25'01		retrograde	1792 Feb 05 23:35	5°♄19'07	
desc. node	1786 Nov 12 04:12	18°♃43'23			1792 Mar 06 01:52	30°♃♄	
	1786 Nov 28 01:53	0°♂		opposition	1792 Mar 16 02:51	26°♄14'56	3°39'35
morning rise	1786 Dec 28 20:07	22°♂22'43		greatest brilliancy	1792 Mar 16 18:10	25°♄59'57	-1.3m
	1787 Jan 08 02:22	0°♂		min. Earth dist.	1792 Mar 19 21:02	24°♄46'42	0.65440 AU
	1787 Feb 16 15:43	0°♁		direct	1792 Apr 26 13:03	16°♄12'39	
	1787 Mar 27 10:09	0°♁			1792 Jun 19 03:31	0°♄	
	1787 May 05 05:45	0°♂		desc. node	1792 Jul 04 00:58	7°♄04'17	
	1787 Jun 14 03:02	0°♂			1792 Aug 13 11:49	0°♃	
	1787 Jul 26 12:01	0°♃			1792 Sep 27 16:16	0°♂	

	1792 Nov 07 17:26	0°☾		conjunction	1797 Aug 09 21:13	17°♊37'18	1°08'59
	1792 Dec 16 15:23	0°♁		minimum elong	1797 Aug 09 21:10	17°♊37'13	1°08'59
	1793 Jan 23 18:18	0°♃		max. Earth dist.	1797 Aug 12 06:26	19°♊08'24	2.67311 AU
	1793 Mar 03 04:22	0°♃			1797 Aug 29 07:51	0°♎	
evening set	1793 Mar 11 11:32	6°♃22'55		morning rise	1797 Sep 23 18:48	16°♎12'40	
	1793 Apr 11 18:39	0°♃			1797 Oct 15 09:02	0°♎	
asc. node	1793 May 04 02:18	16°♃21'14			1797 Dec 01 00:36	0°♎	
					1798 Jan 16 06:05	0°♎	
conjunction	1793 May 13 15:09	23°♃12'45	0°06'05	desc. node	1798 Feb 23 21:52	25°♎07'59	
minimum elong	1793 May 13 14:44	23°♃12'00	0°06'06		1798 Mar 03 10:19	0°♎	
behind sun begin	1793 May 12 15:21	22°♃30'11			1798 Apr 19 14:46	0°♁	
behind sun end	1793 May 14 14:07	23°♃53'47			1798 Jun 11 18:44	0°♃	
	1793 May 23 04:16	0°♂		retrograde	1798 Aug 01 06:43	14°♃01'01	
max. Earth dist.	1793 Jun 20 03:58	19°♂27'49	2.52967 AU	min. Earth dist.	1798 Aug 29 09:00	9°♃25'15	0.37535 AU
	1793 Jul 05 16:47	0°♂		opposition	1798 Aug 31 23:48	8°♃42'51	-6°-22'-53
morning rise	1793 Jul 09 08:08	2°♂26'36		greatest brilliancy	1798 Aug 31 10:34	8°♃51'48	-2.9m
	1793 Aug 20 09:04	0°♂		direct	1798 Sep 30 11:46	3°♃46'58	
	1793 Oct 07 06:14	0°♎			1798 Dec 13 21:39	0°♃	
	1793 Nov 27 06:00	0°♎		asc. node	1798 Dec 24 22:46	6°♃17'55	
	1794 Jan 26 08:14	0°♎			1799 Feb 01 23:09	0°♃	
retrograde	1794 Mar 18 10:45	12°♎11'21			1799 Mar 21 10:50	0°♂	
opposition	1794 Apr 24 06:03	4°♎13'23	1°12'49		1799 May 07 20:55	0°♂	
greatest brilliancy	1794 Apr 24 18:34	4°♎01'46	-1.7m		1799 Jun 24 13:49	0°♂	
min. Earth dist.	1794 May 01 11:53	1°♎32'02	0.56776 AU	evening set	1799 Jul 31 21:03	23°♂29'17	
	1794 May 05 19:48	30°♎			1799 Aug 11 03:57	0°♎	
desc. node	1794 May 21 23:52	25°♎43'46		max. Earth dist.	1799 Sep 04 06:29	15°♎21'13	2.66384 AU
direct	1794 Jun 03 12:21	24°♎39'36					
	1794 Jul 03 15:50	0°♎		conjunction	1799 Sep 15 09:47	22°♎30'15	0°56'58
	1794 Sep 01 05:32	0°♎		minimum elong	1799 Sep 15 10:50	22°♎31'56	0°56'58
	1794 Oct 15 07:19	0°♎			1799 Sep 27 00:15	0°♎	
	1794 Nov 24 11:10	0°♁		morning rise	1799 Oct 29 23:54	21°♎36'33	
	1795 Jan 02 08:53	0°♃			1799 Nov 11 14:32	0°♎	
	1795 Feb 10 11:44	0°♃			1799 Dec 25 17:48	0°♎	
asc. node	1795 Mar 22 01:02	29°♃27'11		desc. node	1800 Jan 11 21:54	11°♎56'30	
	1795 Mar 22 19:00	0°♃			1800 Feb 06 11:32	0°♎	
	1795 May 03 20:51	0°♂			1800 Mar 20 01:58	0°♁	
evening set	1795 May 10 01:57	4°♂18'49			1800 Apr 30 02:32	0°♃	
	1795 Jun 16 21:32	0°♂			1800 Jun 10 18:54	0°♃	
					1800 Jul 26 10:32	0°♃	
conjunction	1795 Jul 02 03:08	10°♂06'00	0°53'39	retrograde	1800 Oct 03 05:09	25°♂01'51	
minimum elong	1795 Jul 02 01:39	10°♂03'33	0°53'37	min. Earth dist.	1800 Oct 31 20:17	19°♂21'46	0.47706 AU
max. Earth dist.	1795 Jul 19 21:06	21°♂43'08	2.62787 AU	opposition	1800 Nov 09 00:55	16°♂25'39	0°-9'-22
	1795 Aug 01 15:54	0°♂		greatest brilliancy	1801 Feb 13 12:25	27°♂52'30	-3.2m
morning rise	1795 Aug 19 14:21	11°♂30'57		asc. node	1800 Nov 11 21:23	15°♂24'49	
	1795 Sep 17 17:23	0°♎		direct	1800 Dec 12 10:11	9°♂26'15	
	1795 Nov 04 18:33	0°♎			1801 Feb 17 22:44	0°♂	
	1795 Dec 24 03:03	0°♎			1801 Apr 14 15:18	0°♂	
desc. node	1796 Feb 14 21:02	0°♎			1801 Jun 04 13:33	0°♂	
	1796 Apr 07 22:44	24°♎02'57			1801 Jul 23 13:19	0°♎	
	1796 May 02 20:53	0°♎		evening set	1801 Sep 07 01:13	28°♎52'31	
retrograde	1796 May 13 09:16	0°♎39'35			1801 Sep 08 18:53	0°♎	
	1796 May 23 17:03	30°♎		max. Earth dist.	1801 Sep 29 15:36	13°♎39'40	2.60133 AU
opposition	1796 Jun 15 02:15	24°♎34'42	-3°-38'-1				
greatest brilliancy	1796 Jun 16 12:51	24°♎07'20	-2.4m	conjunction	1801 Oct 23 12:53	29°♎39'34	0°21'33
min. Earth dist.	1796 Jun 23 02:26	22°♎03'46	0.43830 AU	minimum elong	1801 Oct 23 13:39	29°♎40'52	0°21'32
direct	1796 Jul 20 13:48	17°♎14'28			1801 Oct 24 00:57	0°♎	
	1796 Sep 05 01:52	0°♎		desc. node	1801 Nov 29 20:33	25°♎28'27	
	1796 Oct 25 05:02	0°♁			1801 Dec 06 05:56	0°♎	
	1796 Dec 06 19:45	0°♃		morning rise	1801 Dec 10 11:12	3°♎00'15	
	1797 Jan 17 06:09	0°♃			1802 Jan 16 14:41	0°♎	
asc. node	1797 Feb 05 23:24	14°♃09'42			1802 Feb 25 13:16	0°♁	
	1797 Feb 28 08:02	0°♃			1802 Apr 05 16:23	0°♃	
	1797 Apr 12 19:53	0°♂			1802 May 14 20:27	0°♃	
	1797 May 27 21:58	0°♂			1802 Jun 24 05:29	0°♃	
evening set	1797 Jun 23 08:21	17°♂10'42			1802 Aug 06 18:29	0°♂	
	1797 Jul 13 06:57	0°♂			1802 Sep 28 18:41	0°♂	
				asc. node	1802 Sep 29 20:13	0°♂28'50	

retrograde	1802 Nov 15 12:05	12°♄28'58		greatest brilliancy	1808 Jan 28 07:09	25°♁55'19	1.2m
min. Earth dist.	1802 Dec 19 14:37	4°♄45'20	0.59883 AU		1808 Feb 02 11:02	0°♁	
greatest brilliancy	1802 Dec 24 01:49	2°♄59'06	-1.6m	evening set	1808 Feb 13 17:36	8°♁53'17	
opposition	1802 Dec 25 01:03	2°♄36'00	3°25'17		1808 Mar 11 17:58	0°♁	
	1802 Dec 31 19:05	30°♁♂					
direct	1803 Jan 31 09:45	23°♂56'33		conjunction	1808 Apr 20 15:10	0°♁20'04	0°-19'-55
	1803 Mar 06 10:29	0°♄		minimum elong	1808 Apr 20 16:46	0°♁23'02	0°19'55
	1803 May 11 18:31	0°♁			1808 Apr 20 04:24	0°♁	
	1803 Jul 03 11:45	0°♁		asc. node	1808 May 21 17:40	23°♁05'27	
	1803 Aug 21 00:03	0°♁			1808 May 31 09:58	0°♂	
	1803 Oct 05 11:24	0°♁		max. Earth dist.	1808 Jun 05 15:00	3°♂41'02	2.47917 AU
evening set	1803 Oct 17 18:21	8°♁25'54		morning rise	1808 Jun 21 05:05	14°♂33'57	
desc. node	1803 Oct 17 18:52	8°♁26'47			1808 Jul 13 20:10	0°♄	
max. Earth dist.	1803 Nov 01 13:53	18°♁46'50	2.49152 AU		1808 Aug 28 15:23	0°♁	
	1803 Nov 17 07:41	0°♁			1808 Oct 16 05:27	0°♁	
					1808 Dec 08 19:19	0°♁	
conjunction	1803 Dec 08 06:24	15°♁16'17	0°-30'-31	retrograde	1809 Mar 02 03:32	27°♁14'21	
minimum elong	1803 Dec 08 04:56	15°♁13'34	0°30'31	opposition	1809 Apr 09 01:10	18°♁46'08	2°23'26
	1803 Dec 28 00:10	0°♄		greatest brilliancy	1809 Apr 09 19:15	18°♁28'53	-1.5m
morning rise	1804 Feb 04 03:14	29°♄12'10		min. Earth dist.	1809 Apr 15 00:34	16°♁29'21	0.60882 AU
	1804 Feb 05 03:53	0°♁		direct	1809 May 20 01:25	8°♁53'27	
	1804 Mar 14 12:59	0°♁		desc. node	1809 Jun 08 15:06	11°♁10'50	
	1804 Apr 22 00:01	0°♁			1809 Jul 26 01:08	0°♁	
	1804 May 31 11:00	0°♁			1809 Sep 13 12:11	0°♁	
	1804 Jul 11 22:19	0°♂			1809 Oct 25 19:32	0°♄	
asc. node	1804 Aug 16 20:08	24°♂13'41			1809 Dec 04 06:42	0°♁	
	1804 Aug 25 20:40	0°♄			1810 Jan 11 18:04	0°♁	
	1804 Oct 17 07:10	0°♁			1810 Feb 19 11:54	0°♁	
retrograde	1804 Dec 20 07:35	19°♁06'10			1810 Mar 31 10:26	0°♁	
min. Earth dist.	1805 Jan 27 20:38	9°♁53'21	0.66747 AU	asc. node	1810 Apr 08 17:23	6°♁04'25	
opposition	1805 Jan 29 11:59	9°♁13'53	4°31'43	evening set	1810 Apr 20 00:39	14°♁15'44	
greatest brilliancy	1805 Jan 29 02:29	9°♁23'25	-1.3m		1810 May 12 04:00	0°♂	
	1805 Mar 03 05:32	30°♁♄					
direct	1805 Mar 10 11:55	29°♄39'52		conjunction	1810 Jun 15 12:41	23°♂40'17	0°39'11
	1805 Mar 18 00:38	0°♁		minimum elong	1810 Jun 15 11:03	23°♂37'31	0°39'09
	1805 Jun 08 05:37	0°♁			1810 Jun 24 22:15	0°♄	
	1805 Jul 30 14:08	0°♁		max. Earth dist.	1810 Jul 10 09:38	10°♄18'03	2.59549 AU
desc. node	1805 Sep 03 17:53	22°♁23'05		morning rise	1810 Aug 05 12:21	27°♄22'29	
	1805 Sep 15 04:26	0°♁			1810 Aug 09 13:52	0°♁	
	1805 Oct 28 04:23	0°♁			1810 Sep 25 19:51	0°♁	
evening set	1805 Dec 07 04:29	29°♁40'26			1810 Nov 13 15:31	0°♁	
	1805 Dec 07 14:47	0°♄			1811 Jan 04 04:47	0°♁	
	1806 Jan 15 09:26	0°♁			1811 Mar 06 21:10	0°♁	
max. Earth dist.	1806 Jan 23 02:06	6°♁02'46	2.37287 AU	retrograde	1811 Apr 20 10:13	9°♁44'34	
				desc. node	1811 Apr 26 14:28	9°♁30'10	
conjunction	1806 Feb 07 22:02	18°♁31'48	-1°-4'-51	opposition	1811 May 24 23:16	2°♁48'49	-1°-25'-47
minimum elong	1806 Feb 07 22:11	18°♁32'06	1°04'51	greatest brilliancy	1811 May 25 15:35	2°♁34'44	-2.1m
	1806 Feb 22 10:25	0°♁		min. Earth dist.	1811 Jun 02 09:46	29°♁55'02	0.49034 AU
	1806 Apr 01 15:56	0°♁			1811 Jun 02 03:49	30°♁♁	
morning rise	1806 Apr 19 13:41	13°♁48'47		direct	1811 Jul 01 21:37	24°♁18'26	
	1806 May 10 22:40	0°♁			1811 Aug 01 04:07	0°♁	
	1806 Jun 21 00:50	0°♂			1811 Sep 27 00:33	0°♄	
asc. node	1806 Jul 04 19:15	9°♂41'05			1811 Nov 09 02:41	0°♁	
	1806 Aug 03 15:00	0°♄			1811 Dec 19 11:11	0°♁	
	1806 Sep 19 15:12	0°♁			1812 Jan 28 14:27	0°♁	
	1806 Nov 12 03:46	0°♁		asc. node	1812 Feb 24 15:59	19°♁51'05	
retrograde	1807 Jan 23 20:56	22°♁24'57			1812 Mar 09 18:00	0°♁	
opposition	1807 Mar 04 12:25	13°♁02'56	4°09'27		1812 Apr 21 12:44	0°♂	
greatest brilliancy	1807 Mar 04 21:58	12°♁53'29	-1.2m		1812 Jun 05 02:22	0°♄	
min. Earth dist.	1807 Mar 06 18:13	12°♁09'42	0.67102 AU	evening set	1812 Jun 07 21:41	1°♄51'08	
direct	1807 Apr 14 19:42	3°♁02'58			1812 Jul 21 03:43	0°♁	
	1807 Jul 05 04:35	0°♁					
desc. node	1807 Jul 22 16:58	9°♁43'40		conjunction	1812 Jul 27 02:18	3°♁49'01	1°06'33
	1807 Aug 24 19:41	0°♁		minimum elong	1812 Jul 27 01:38	3°♁47'58	1°06'33
	1807 Oct 07 23:00	0°♁		max. Earth dist.	1812 Aug 04 04:43	9°♁00'34	2.66199 AU
	1807 Nov 17 16:00	0°♄			1812 Sep 06 03:08	0°♁	
	1807 Dec 26 10:39	0°♁		morning rise	1812 Sep 10 22:57	3°♁03'54	

	1812 Oct 23 10:50	0°♁		direct	1818 Jan 13 18:14	8°♁18'44	
	1812 Dec 09 20:41	0°♁			1818 Mar 26 05:06	0°♁	
	1813 Jan 26 16:02	0°♁			1818 May 21 11:51	0°♁	
desc. node	1813 Mar 13 14:19	27°♁56'26			1818 Jul 11 06:34	0°♁	
	1813 Mar 17 02:25	0°♁			1818 Aug 28 03:41	0°♁	
	1813 May 12 19:03	0°♁		evening set	1818 Oct 01 03:27	22°♁20'19	
retrograde	1813 Jul 01 01:25	12°♁34'41			1818 Oct 12 11:38	0°♁	
opposition	1813 Jul 31 06:58	7°♁35'43	-6°-41'-17	max. Earth dist.	1818 Oct 18 02:45	3°♁50'31	2.53916 AU
greatest brilliancy	1813 Aug 01 03:55	7°♁21'36	-2.8m	desc. node	1818 Nov 03 10:29	15°♁08'12	
min. Earth dist.	1813 Aug 03 02:58	6°♁50'00	0.37908 AU				
direct	1813 Aug 31 01:06	2°♁18'34		conjunction	1818 Nov 19 01:14	26°♁09'09	0°-9'-24
	1813 Nov 13 16:56	0°♁		minimum elong	1818 Nov 19 00:49	26°♁08'23	0°09'25
	1813 Dec 31 00:49	0°♁		behind sun begin	1818 Nov 18 07:08	25°♁36'57	
asc. node	1814 Jan 11 13:51	7°♁39'12		behind sun end	1818 Nov 19 18:29	26°♁39'52	
	1814 Feb 14 01:19	0°♁			1818 Nov 24 10:28	0°♁	
	1814 Mar 31 08:25	0°♁			1819 Jan 04 08:12	0°♁	
	1814 May 16 14:16	0°♁		morning rise	1819 Jan 10 23:09	4°♁58'30	
	1814 Jul 02 15:35	0°♁			1819 Feb 12 18:02	0°♁	
evening set	1814 Jul 18 08:12	9°♁56'51			1819 Mar 23 08:39	0°♁	
	1814 Aug 18 22:50	0°♁			1819 May 01 00:14	0°♁	
max. Earth dist.	1814 Aug 27 07:02	5°♁18'30	2.67396 AU		1819 Jun 09 16:19	0°♁	
					1819 Jul 21 14:04	0°♁	
conjunction	1814 Sep 02 07:04	9°♁07'59	1°04'34	asc. node	1819 Sep 03 12:02	28°♁33'05	
minimum elong	1814 Sep 02 07:48	9°♁09'09	1°04'34		1819 Sep 05 21:45	0°♁	
	1814 Oct 04 19:33	0°♁			1819 Nov 06 03:39	0°♁	
morning rise	1814 Oct 16 14:52	7°♁38'50		retrograde	1819 Dec 07 19:35	5°♁43'31	
	1814 Nov 19 17:25	0°♁			1820 Jan 06 01:40	30°♁	
	1815 Jan 03 11:59	0°♁		min. Earth dist.	1820 Jan 13 18:13	27°♁02'08	0.64811 AU
desc. node	1815 Jan 29 13:12	17°♁48'19		opposition	1820 Jan 16 21:55	25°♁46'10	4°18'17
	1815 Feb 16 04:35	0°♁		greatest brilliancy	1820 Jan 16 05:24	26°♁02'45	-1.4m
	1815 Mar 31 02:02	0°♁		direct	1820 Feb 25 00:53	16°♁29'46	
	1815 May 12 21:56	0°♁			1820 Apr 19 11:42	0°♁	
	1815 Jun 27 00:25	0°♁			1820 Jun 18 05:40	0°♁	
	1815 Sep 02 11:34	0°♁			1820 Aug 07 13:21	0°♁	
retrograde	1815 Sep 12 22:23	0°♁46'43		desc. node	1820 Sep 20 09:20	28°♁31'11	
	1815 Sep 23 06:54	30°♁			1820 Sep 22 13:56	0°♁	
min. Earth dist.	1815 Oct 09 19:35	25°♁55'43	0.42566 AU		1820 Nov 04 11:24	0°♁	
opposition	1815 Oct 17 15:12	23°♁23'06	-2°-34'00	evening set	1820 Nov 15 06:12	7°♁50'23	
greatest brilliancy	1815 Oct 16 15:41	23°♁42'18	-2.6m	max. Earth dist.	1820 Dec 04 01:39	21°♁46'30	2.41232 AU
direct	1815 Nov 18 00:29	17°♁19'35			1820 Dec 14 23:27	0°♁	
asc. node	1815 Nov 29 13:43	18°♁10'17					
	1816 Jan 06 13:39	0°♁		conjunction	1821 Jan 11 22:23	21°♁28'25	0°-58'-28
	1816 Mar 04 05:04	0°♁		minimum elong	1821 Jan 11 20:24	21°♁24'34	0°58'28
	1816 Apr 24 00:28	0°♁			1821 Jan 22 20:57	0°♁	
	1816 Jun 12 07:01	0°♁			1821 Mar 02 00:16	0°♁	
	1816 Jul 30 14:25	0°♁		morning rise	1821 Mar 20 04:34	14°♁18'21	
evening set	1816 Aug 23 11:57	15°♁07'34			1821 Apr 09 06:44	0°♁	
	1816 Sep 15 14:53	0°♁			1821 May 18 13:34	0°♁	
max. Earth dist.	1816 Sep 19 09:09	2°♁26'41	2.63191 AU		1821 Jun 28 16:41	0°♁	
				asc. node	1821 Jul 21 10:58	15°♁50'44	
conjunction	1816 Oct 08 05:43	14°♁49'03	0°37'47		1821 Aug 11 13:23	0°♁	
minimum elong	1816 Oct 08 06:49	14°♁50'51	0°37'47		1821 Sep 28 16:33	0°♁	
	1816 Oct 30 22:54	0°♁			1821 Nov 27 08:34	0°♁	
morning rise	1816 Nov 23 07:14	15°♁56'38		retrograde	1822 Jan 10 07:05	9°♁43'11	
	1816 Dec 13 11:03	0°♁		opposition	1822 Feb 19 06:42	0°♁06'42	4°27'18
desc. node	1816 Dec 16 11:51	2°♁08'19		greatest brilliancy	1822 Feb 19 09:08	0°♁04'16	-1.2m
	1817 Jan 24 06:16	0°♁			1822 Feb 19 13:25	30°♁	
	1817 Mar 05 17:03	0°♁		min. Earth dist.	1822 Feb 20 00:06	29°♁49'21	0.67753 AU
	1817 Apr 14 08:48	0°♁		direct	1822 Apr 01 05:33	20°♁13'49	
	1817 May 24 02:54	0°♁			1822 May 16 02:50	0°♁	
	1817 Jul 04 10:30	0°♁			1822 Jul 15 20:38	0°♁	
	1817 Aug 19 14:23	0°♁		desc. node	1822 Aug 08 08:21	14°♁03'41	
asc. node	1817 Oct 16 13:48	24°♁38'40			1822 Sep 02 06:17	0°♁	
retrograde	1817 Oct 30 23:58	26°♁02'44			1822 Oct 15 19:09	0°♁	
min. Earth dist.	1817 Dec 02 00:56	19°♁03'24	0.55563 AU		1822 Nov 25 08:02	0°♁	
opposition	1817 Dec 08 19:23	16°♁25'48	2°25'06		1823 Jan 03 01:48	0°♁	
greatest brilliancy	1817 Dec 07 21:35	16°♁47'00	-1.8m	evening set	1823 Jan 16 10:08	10°♁30'50	

	1823 Feb 10 01:39	0°♁			1828 Feb 07 13:18	0°♁	
	1823 Mar 20 07:05	0°♁		desc. node	1828 Mar 30 05:03	27°♁25'27	
conjunction	1823 Mar 25 10:16	3°♁58'34	0°-45'-12	retrograde	1828 Apr 04 20:21	0°♁	
minimum elong	1823 Mar 25 13:29	4°♁04'47	0°45'11	opposition	1828 May 30 13:36	14°♁44'08	
	1823 Apr 28 14:57	0°♁		greatest brilliancy	1828 Jul 01 02:16	9°♁08'21	-4°-56'-58
max. Earth dist.	1823 May 15 15:21	12°♁36'03	2.42501 AU	min. Earth dist.	1828 Jul 02 16:29	8°♁39'54	-2.6m
morning rise	1823 May 31 06:09	23°♁56'10		direct	1828 Jul 07 23:42	7°♁05'41	0.41235 AU
asc. node	1823 Jun 08 10:30	29°♁47'18			1828 Aug 03 22:49	2°♁34'40	
	1823 Jun 08 17:39	0°♁			1828 Oct 15 18:43	0°♁	
	1823 Jul 22 02:53	0°♁			1828 Nov 30 05:03	0°♁	
	1823 Sep 06 04:12	0°♁		asc. node	1829 Jan 11 20:43	0°♁	
	1823 Oct 25 21:13	0°♁			1829 Jan 28 07:13	11°♁35'11	
	1823 Dec 23 15:34	0°♁			1829 Feb 23 16:00	0°♁	
retrograde	1824 Feb 15 10:27	13°♁22'07			1829 Apr 08 15:20	0°♁	
opposition	1824 Mar 25 04:24	4°♁29'19	3°15'54	evening set	1829 May 24 01:00	0°♁	
greatest brilliancy	1824 Mar 25 21:43	4°♁12'29	-1.4m		1829 Jul 03 07:16	25°♁58'15	
min. Earth dist.	1824 Mar 29 17:48	2°♁43'00	0.64092 AU		1829 Jul 09 14:28	0°♁	
	1824 Apr 06 01:24	30°♁		conjunction	1829 Aug 19 03:34	25°♁49'29	1°08'28
direct	1824 May 05 12:57	24°♁28'12		minimum elong	1829 Aug 19 03:49	25°♁49'54	1°08'28
	1824 Jun 06 08:48	0°♁		max. Earth dist.	1829 Aug 18 13:15	25°♁26'44	2.67573 AU
desc. node	1824 Jun 25 07:43	7°♁12'42			1829 Aug 25 17:02	0°♁	
	1824 Aug 07 19:06	0°♁		morning rise	1829 Oct 02 16:59	24°♁15'00	
	1824 Sep 23 01:45	0°♁			1829 Oct 11 16:08	0°♁	
	1824 Nov 03 11:30	0°♁			1829 Nov 27 00:37	0°♁	
	1824 Dec 12 13:12	0°♁			1830 Jan 11 15:39	0°♁	
	1825 Jan 19 18:15	0°♁		desc. node	1830 Feb 15 04:42	22°♁58'17	
	1825 Feb 27 06:02	0°♁			1830 Feb 25 17:22	0°♁	
evening set	1825 Mar 27 06:22	21°♁18'24			1830 Apr 11 19:06	0°♁	
	1825 Apr 07 22:16	0°♁			1830 May 28 16:57	0°♁	
asc. node	1825 Apr 25 08:34	12°♁47'06			1830 Jul 31 20:24	0°♁	
	1825 May 19 09:40	0°♁		retrograde	1830 Aug 18 14:37	2°♁08'26	
					1830 Sep 05 13:05	30°♁	
conjunction	1825 May 26 22:37	5°♁17'58	0°19'35	min. Earth dist.	1830 Sep 14 12:03	27°♁40'56	0.38667 AU
minimum elong	1825 May 26 21:28	5°♁15'58	0°19'34	opposition	1830 Sep 19 16:21	26°♁11'27	-5°-13'-51
max. Earth dist.	1825 Jun 28 18:51	27°♁51'37	2.55536 AU	greatest brilliancy	1830 Sep 18 14:38	26°♁30'02	-2.8m
	1825 Jul 01 23:06	0°♁		direct	1830 Oct 19 12:49	20°♁59'40	
morning rise	1825 Jul 20 07:20	12°♁13'18			1830 Nov 28 11:12	0°♁	
	1825 Aug 16 13:52	0°♁		asc. node	1830 Dec 16 05:56	7°♁57'24	
	1825 Oct 03 03:35	0°♁			1831 Jan 25 15:38	0°♁	
	1825 Nov 22 03:03	0°♁			1831 Mar 16 04:58	0°♁	
	1826 Jan 16 16:12	0°♁			1831 May 03 12:51	0°♁	
retrograde	1826 Mar 30 05:04	21°♁51'02			1831 Jun 20 16:45	0°♁	
opposition	1826 May 05 06:53	14°♁12'32	0°22'05		1831 Aug 07 12:13	0°♁	
greatest brilliancy	1826 May 05 10:55	14°♁08'52	-1.9m	evening set	1831 Aug 10 03:08	1°♁39'31	
min. Earth dist.	1826 May 13 02:13	11°♁22'18	0.54195 AU	max. Earth dist.	1831 Sep 10 17:15	21°♁48'22	2.65470 AU
desc. node	1826 May 13 06:09	11°♁18'49			1831 Sep 23 09:46	0°♁	
direct	1826 Jun 13 21:38	4°♁55'33					
	1826 Aug 24 13:52	0°♁		conjunction	1831 Sep 24 14:47	0°♁47'03	0°50'52
	1826 Oct 09 17:32	0°♁		minimum elong	1831 Sep 24 15:55	0°♁48'53	0°50'52
	1826 Nov 19 14:09	0°♁			1831 Nov 07 21:50	0°♁	
	1826 Dec 28 20:43	0°♁		morning rise	1831 Nov 08 13:27	0°♁26'12	
	1827 Feb 06 05:39	0°♁			1831 Dec 21 19:40	0°♁	
asc. node	1827 Mar 13 07:46	26°♁02'58		desc. node	1832 Jan 03 03:25	8°♁37'11	
	1827 Mar 18 18:01	0°♁			1832 Feb 02 04:47	0°♁	
	1827 Apr 30 00:04	0°♁			1832 Mar 14 08:04	0°♁	
evening set	1827 May 22 02:01	15°♁09'25			1832 Apr 23 18:15	0°♁	
	1827 Jun 13 03:58	0°♁			1832 Jun 03 11:51	0°♁	
					1832 Jul 16 17:51	0°♁	
conjunction	1827 Jul 12 13:25	19°♁20'54	0°59'46		1832 Sep 09 14:52	0°♁	
minimum elong	1827 Jul 12 12:12	19°♁18'55	0°59'45	retrograde	1832 Oct 13 22:24	7°♁24'19	
max. Earth dist.	1827 Jul 26 16:19	28°♁30'30	2.64241 AU	asc. node	1832 Nov 02 04:55	4°♁40'15	
	1827 Jul 28 23:46	0°♁		min. Earth dist.	1832 Nov 12 18:29	1°♁14'50	0.50596 AU
morning rise	1827 Aug 28 21:57	19°♁48'17			1832 Nov 16 03:41	30°♁	
	1827 Sep 13 23:38	0°♁		opposition	1832 Nov 20 14:33	28°♁19'54	0°56'57
	1827 Oct 31 16:59	0°♁		greatest brilliancy	1832 Nov 20 03:28	28°♁30'14	-2.1m
	1827 Dec 19 04:49	0°♁		direct	1832 Dec 24 22:48	20°♁53'38	

	1833 Feb 04 18:52	0°♁		minimum elong	1838 Feb 24 06:27	5°♁14'03	1°01'53
	1833 Apr 07 19:26	0°♁			1838 Mar 27 20:09	0°♁	
	1833 May 30 03:30	0°♁		max. Earth dist.	1838 Mar 31 08:56	2°♁44'36	2.37695 AU
	1833 Jul 18 16:30	0°♁		morning rise	1838 May 05 16:35	29°♁42'04	
	1833 Sep 04 03:13	0°♁			1838 May 06 02:10	0°♁	
evening set	1833 Sep 15 14:49	7°♁28'18			1838 Jun 16 03:13	0°♁	
max. Earth dist.	1833 Oct 06 01:07	20°♁59'15	2.58094 AU	asc. node	1838 Jun 25 01:32	6°♁19'10	
	1833 Oct 19 10:01	0°♁			1838 Jul 29 13:39	0°♁	
					1838 Sep 14 02:10	0°♁	
conjunction	1833 Nov 01 18:53	9°♁08'41	0°10'49		1838 Nov 04 16:38	0°♁	
minimum elong	1833 Nov 01 19:19	9°♁09'25	0°10'49		1839 Jan 25 13:14	0°♁	
behind sun begin	1833 Nov 01 04:00	8°♁43'04		retrograde	1839 Jan 31 21:32	0°♁14'30	
behind sun end	1833 Nov 02 10:38	9°♁35'48			1839 Feb 07 01:57	30°♁	
desc. node	1833 Nov 20 01:53	21°♁53'02		opposition	1839 Mar 12 06:34	21°♁01'48	3°53'20
	1833 Dec 01 13:02	0°♁		greatest brilliancy	1839 Mar 12 19:27	20°♁49'07	-1.3m
morning rise	1833 Dec 21 04:04	14°♁08'01		min. Earth dist.	1839 Mar 15 08:07	19°♁49'25	0.66314 AU
	1834 Jan 11 17:55	0°♁		direct	1839 Apr 22 15:54	11°♁00'03	
	1834 Feb 20 11:53	0°♁			1839 Jun 26 21:05	0°♁	
	1834 Mar 31 10:17	0°♁		desc. node	1839 Jul 12 22:58	8°♁15'34	
	1834 May 09 08:56	0°♁			1839 Aug 18 22:29	0°♁	
	1834 Jun 18 09:45	0°♁			1839 Oct 02 17:00	0°♁	
	1834 Jul 31 02:40	0°♁			1839 Nov 12 15:28	0°♁	
	1834 Sep 18 07:52	0°♁			1839 Dec 21 12:26	0°♁	
asc. node	1834 Sep 20 04:51	0°♁59'44			1840 Jan 28 14:12	0°♁	
retrograde	1834 Nov 23 20:03	21°♁32'11		evening set	1840 Feb 29 13:22	25°♁03'42	
min. Earth dist.	1834 Dec 28 23:45	13°♁26'53	0.61890 AU		1840 Mar 06 22:09	0°♁	
opposition	1835 Jan 02 15:22	11°♁35'29	3°50'01		1840 Apr 15 09:35	0°♁	
greatest brilliancy	1835 Jan 01 17:31	11°♁57'19	-1.5m				
direct	1835 Feb 09 16:28	2°♁41'26		conjunction	1840 May 04 14:15	14°♁08'15	0°-4'-50
	1835 May 04 12:49	0°♁		minimum elong	1840 May 04 14:36	14°♁08'54	0°04'51
	1835 Jun 28 01:04	0°♁		behind sun begin	1840 May 03 13:36	13°♁23'22	
	1835 Aug 16 03:00	0°♁		behind sun end	1840 May 05 15:36	14°♁54'24	
	1835 Sep 30 18:59	0°♁		asc. node	1840 May 12 01:52	19°♁33'51	
desc. node	1835 Oct 08 01:28	4°♁57'39			1840 May 26 15:59	0°♁	
evening set	1835 Oct 27 21:06	18°♁44'52		max. Earth dist.	1840 Jun 15 03:06	13°♁38'33	2.50764 AU
max. Earth dist.	1835 Nov 11 12:50	29°♁11'09	2.46312 AU	morning rise	1840 Jul 02 09:13	25°♁28'34	
	1835 Nov 12 16:00	0°♁			1840 Jul 09 01:46	0°♁	
					1840 Aug 23 17:38	0°♁	
conjunction	1835 Dec 20 07:10	27°♁44'36	0°-42'-5		1840 Oct 10 19:49	0°♁	
minimum elong	1835 Dec 20 05:11	27°♁40'53	0°42'05		1840 Dec 01 15:42	0°♁	
	1835 Dec 23 06:57	0°♁			1841 Feb 05 08:45	0°♁	
	1836 Jan 31 08:18	0°♁		retrograde	1841 Mar 11 18:24	6°♁04'04	
morning rise	1836 Feb 19 12:50	15°♁00'16			1841 Apr 12 06:06	30°♁	
	1836 Mar 09 15:02	0°♁		opposition	1841 Apr 18 02:05	27°♁51'37	1°44'52
greatest brilliancy	1836 Mar 26 06:09	13°♁03'16	1.2m	greatest brilliancy	1841 Apr 18 17:50	27°♁36'47	-1.6m
	1836 Apr 16 23:47	0°♁		min. Earth dist.	1841 Apr 24 18:37	25°♁20'31	0.58723 AU
	1836 May 26 08:16	0°♁		direct	1841 May 28 17:22	18°♁07'50	
	1836 Jul 06 14:59	0°♁		desc. node	1841 May 29 21:30	18°♁08'23	
asc. node	1836 Aug 07 02:46	21°♁33'54			1841 Jul 15 01:48	0°♁	
	1836 Aug 20 00:03	0°♁			1841 Sep 06 17:39	0°♁	
	1836 Oct 09 04:28	0°♁			1841 Oct 19 23:26	0°♁	
retrograde	1836 Dec 27 23:04	26°♁58'50			1841 Nov 28 19:35	0°♁	
min. Earth dist.	1837 Feb 05 07:32	17°♁30'37	0.67398 AU		1842 Jan 06 12:16	0°♁	
opposition	1837 Feb 06 02:56	17°♁11'11	4°33'31		1842 Feb 14 10:08	0°♁	
greatest brilliancy	1837 Feb 05 21:38	17°♁16'30	-1.2m		1842 Mar 26 12:16	0°♁	
direct	1837 Mar 18 12:34	7°♁29'29		asc. node	1842 Mar 30 00:42	2°♁34'28	
	1837 May 31 15:42	0°♁		evening set	1842 May 02 06:43	26°♁25'16	
	1837 Jul 25 00:53	0°♁			1842 May 07 09:05	0°♁	
desc. node	1837 Aug 25 00:42	19°♁22'03			1842 Jun 20 05:27	0°♁	
	1837 Sep 10 04:48	0°♁					
	1837 Oct 23 09:30	0°♁		conjunction	1842 Jun 25 18:41	3°♁42'24	0°48'10
	1837 Dec 02 20:58	0°♁		minimum elong	1842 Jun 25 17:05	3°♁39'44	0°48'08
evening set	1837 Dec 20 19:39	13°♁46'04		max. Earth dist.	1842 Jul 16 14:11	17°♁27'04	2.61434 AU
	1838 Jan 10 15:15	0°♁			1842 Aug 04 21:22	0°♁	
	1838 Feb 17 15:29	0°♁		morning rise	1842 Aug 14 06:27	6°♁02'23	
					1842 Sep 20 23:43	0°♁	
conjunction	1838 Feb 24 04:34	5°♁10'19	-1°-1'-54		1842 Nov 08 07:22	0°♁	

	1842 Dec 28 10:41	0°♄			1848 Apr 18 00:17	0°♄		
	1843 Feb 21 18:29	0°♂			1848 Jun 07 03:41	0°♄		
desc. node	1843 Apr 16 20:42	19°♂53'20			1848 Jul 25 20:22	0°♄		
retrograde	1843 May 03 22:29	21°♂34'27		evening set	1848 Aug 31 18:27	23°♄23'21		
opposition	1843 Jun 06 12:26	15°♂05'57	-2°-38'-38		1848 Sep 11 00:20	0°♄		
greatest brilliancy	1843 Jun 07 16:26	14°♂42'51	-2.3m	max. Earth dist.	1848 Sep 25 04:56	9°♄15'16	2.61607 AU	
min. Earth dist.	1843 Jun 14 22:37	12°♂20'12	0.46130 AU					
direct	1843 Jul 13 05:25	7°♂11'22		conjunction	1848 Oct 16 20:32	23°♄36'38	0°28'44	
	1843 Sep 16 18:05	0°♄		minimum elong	1848 Oct 16 21:28	23°♄38'12	0°28'44	
	1843 Nov 01 16:19	0°♂			1848 Oct 26 08:18	0°♄		
	1843 Dec 13 02:00	0°♂		morning rise	1848 Dec 02 20:13	25°♄51'14		
	1844 Jan 22 19:52	0°♂		desc. node	1848 Dec 06 18:25	28°♄37'04		
asc. node	1844 Feb 14 22:48	16°♂48'03			1848 Dec 08 17:24	0°♂		
	1844 Mar 04 09:36	0°♂			1849 Jan 19 07:29	0°♄		
	1844 Apr 16 12:07	0°♄			1849 Feb 28 11:37	0°♂		
	1844 May 31 07:12	0°♄			1849 Apr 08 20:04	0°♂		
evening set	1844 Jun 17 10:29	11°♄13'01			1849 May 18 05:02	0°♂		
	1844 Jul 16 11:53	0°♄			1849 Jun 27 20:55	0°♂		
					1849 Aug 11 03:50	0°♄		
conjunction	1844 Aug 04 15:30	12°♄15'44	1°08'28	asc. node	1849 Oct 06 19:47	29°♄28'32		
minimum elong	1844 Aug 04 15:11	12°♄15'15	1°08'27		1849 Oct 08 06:52	0°♄		
max. Earth dist.	1844 Aug 09 12:46	15°♄22'54	2.66921 AU	retrograde	1849 Nov 09 00:24	6°♄07'05		
	1844 Sep 01 11:39	0°♄			1849 Dec 08 20:13	30°♄		
morning rise	1844 Sep 18 21:49	11°♄04'51		min. Earth dist.	1849 Dec 12 05:27	28°♄42'38	0.58058 AU	
	1844 Oct 18 15:20	0°♄		greatest brilliancy	1849 Dec 17 07:22	26°♄42'43	-1.7m	
	1844 Dec 04 14:29	0°♄		opposition	1849 Dec 18 07:03	26°♄19'23	3°03'13	
	1845 Jan 20 10:53	0°♂		direct	1850 Jan 24 01:09	17°♄53'28		
desc. node	1845 Mar 03 19:45	26°♂53'14			1850 Mar 15 11:17	0°♄		
	1845 Mar 08 19:01	0°♄			1850 May 15 06:14	0°♄		
	1845 Apr 27 14:30	0°♂			1850 Jul 06 02:39	0°♄		
	1845 Jul 10 20:26	0°♂			1850 Aug 23 09:06	0°♄		
retrograde	1845 Jul 19 12:19	0°♂28'37			1850 Oct 07 20:13	0°♄		
	1845 Jul 28 02:03	30°♄		evening set	1850 Oct 10 10:31	1°♄46'03		
opposition	1845 Aug 18 15:18	25°♂27'59	-6°-49'-20	desc. node	1850 Oct 24 16:49	11°♄34'50		
min. Earth dist.	1845 Aug 18 11:32	25°♂30'27	0.37302 AU	max. Earth dist.	1850 Oct 26 02:03	12°♄32'35	2.51355 AU	
greatest brilliancy	1845 Aug 18 17:18	25°♂26'40	-2.9m		1850 Nov 19 18:51	0°♂		
direct	1845 Sep 17 08:00	20°♂31'26						
	1845 Oct 27 15:47	0°♂		conjunction	1850 Nov 29 15:36	7°♂07'18	0°-21'-31	
	1845 Dec 22 02:20	0°♂		minimum elong	1850 Nov 29 14:35	7°♂05'26	0°21'32	
asc. node	1846 Jan 01 22:19	6°♂43'31			1850 Dec 30 14:40	0°♄		
	1846 Feb 07 07:56	0°♂		morning rise	1851 Jan 24 02:53	18°♄36'30		
	1846 Mar 25 16:19	0°♄			1851 Feb 07 21:37	0°♂		
	1846 May 11 11:52	0°♄			1851 Mar 18 09:19	0°♂		
	1846 Jun 27 21:00	0°♄			1851 Apr 25 21:49	0°♂		
evening set	1846 Jul 26 16:50	18°♄12'05			1851 Jun 04 09:41	0°♂		
	1846 Aug 14 08:00	0°♄			1851 Jul 15 23:17	0°♄		
max. Earth dist.	1846 Sep 01 12:04	11°♄33'55	2.66938 AU	asc. node	1851 Aug 24 19:31	26°♄34'21		
					1851 Aug 30 06:32	0°♄		
conjunction	1846 Sep 10 08:51	17°♄14'04	1°00'34		1851 Oct 23 20:39	0°♄		
minimum elong	1846 Sep 10 09:46	17°♄15'33	1°00'34	retrograde	1851 Dec 15 14:43	13°♄56'32		
	1846 Sep 30 04:44	0°♄		min. Earth dist.	1852 Jan 22 10:46	4°♄57'35	0.66007 AU	
morning rise	1846 Oct 24 18:37	16°♄00'40		opposition	1852 Jan 24 18:56	4°♄01'12	4°27'53	
	1846 Nov 14 22:53	0°♄		greatest brilliancy	1852 Jan 24 06:05	4°♄14'06	-1.3m	
	1846 Dec 29 09:10	0°♂			1852 Feb 04 06:28	30°♄		
desc. node	1847 Jan 19 19:27	14°♂47'43		direct	1852 Mar 04 10:18	24°♄34'37		
	1847 Feb 10 12:47	0°♄			1852 Apr 05 19:25	0°♄		
	1847 Mar 24 15:42	0°♂			1852 Jun 11 20:38	0°♄		
	1847 May 05 08:09	0°♂			1852 Aug 02 08:00	0°♄		
	1847 Jun 17 01:41	0°♂		desc. node	1852 Sep 10 15:45	25°♄15'30		
	1847 Aug 05 00:47	0°♂			1852 Sep 17 17:41	0°♄		
retrograde	1847 Sep 25 10:53	15°♂28'36			1852 Oct 30 17:52	0°♂		
min. Earth dist.	1847 Oct 23 04:16	10°♂11'25	0.45355 AU	evening set	1852 Nov 27 07:23	20°♂14'55		
opposition	1847 Oct 31 09:25	7°♂21'24	-1°-7'-8		1852 Dec 10 06:01	0°♄		
greatest brilliancy	1847 Oct 30 21:22	7°♂31'50	-2.4m	max. Earth dist.	1852 Dec 24 19:03	11°♄07'03	2.38711 AU	
asc. node	1847 Nov 19 21:19	1°♂54'32			1853 Jan 18 02:25	0°♂		
direct	1847 Dec 02 22:17	0°♂45'55						
	1848 Feb 24 20:39	0°♄		conjunction	1853 Jan 26 17:59	6°♂47'03	-1°-3'-43	

minimum elong	1853 Jan 26 16:56	6°♁45'01	1°03'45	desc. node	1858 May 03 11:57	28°♁58'50	
	1853 Feb 25 04:34	0°♁		opposition	1858 May 16 02:51	24°♁54'49	0°-36'-42
	1853 Apr 04 10:05	0°♁		greatest brilliancy	1858 May 16 09:58	24°♁48'31	-2.0m
morning rise	1853 Apr 06 10:39	1°♁34'21		min. Earth dist.	1858 May 24 09:04	21°♁59'57	0.51382 AU
	1853 May 13 15:50	0°♁		direct	1858 Jun 23 21:21	16°♁01'09	
	1853 Jun 23 17:01	0°♁			1858 Aug 13 02:29	0°♁	
asc. node	1853 Jul 11 18:52	12°♁41'04			1858 Oct 02 08:15	0°♁	
	1853 Aug 06 07:40	0°♁			1858 Nov 13 06:55	0°♁	
	1853 Sep 22 15:21	0°♁			1858 Dec 23 02:21	0°♁	
	1853 Nov 16 20:30	0°♁			1859 Jan 31 20:08	0°♁	
retrograde	1854 Jan 18 01:15	17°♁27'35		asc. node	1859 Mar 03 15:31	22°♁45'15	
opposition	1854 Feb 26 20:42	7°♁58'36	4°18'08		1859 Mar 13 15:18	0°♁	
greatest brilliancy	1854 Feb 27 03:07	7°♁52'14	-1.2m		1859 Apr 25 02:56	0°♁	
min. Earth dist.	1854 Feb 28 09:46	7°♁21'47	0.67521 AU	evening set	1859 Jun 01 10:21	25°♁19'42	
	1854 Mar 22 12:43	30°♁			1859 Jun 08 10:45	0°♁	
direct	1854 Apr 09 00:53	28°♁01'24					
	1854 Apr 27 19:03	0°♁		conjunction	1859 Jul 21 13:20	28°♁11'25	1°04'14
	1854 Jul 09 04:44	0°♁		minimum elong	1859 Jul 21 12:26	28°♁09'58	1°04'14
desc. node	1854 Jul 29 14:45	11°♁44'27			1859 Jul 24 08:40	0°♁	
	1854 Aug 27 20:39	0°♁		max. Earth dist.	1859 Aug 01 05:22	5°♁03'40	2.65427 AU
	1854 Oct 10 18:56	0°♁		morning rise	1859 Sep 06 00:11	27°♁54'09	
	1854 Nov 20 11:07	0°♁			1859 Sep 09 07:31	0°♁	
	1854 Dec 29 05:46	0°♁			1859 Oct 26 18:54	0°♁	
evening set	1855 Feb 01 06:44	26°♁52'01			1859 Dec 13 15:03	0°♁	
	1855 Feb 05 05:52	0°♁			1860 Jan 31 08:46	0°♁	
	1855 Mar 15 11:32	0°♁		desc. node	1860 Mar 20 12:08	28°♁33'31	
conjunction	1855 Apr 10 03:30	19°♁42'05	0°-31'-17		1860 Mar 23 03:31	0°♁	
minimum elong	1855 Apr 10 06:00	19°♁46'50	0°31'15	retrograde	1860 Jun 10 05:47	0°♁	
	1855 Apr 23 19:42	0°♁			1860 Jun 16 21:19	0°♁16'36	
max. Earth dist.	1855 May 29 09:09	26°♁01'44	2.45505 AU	opposition	1860 Jun 23 11:49	30°♁	
asc. node	1855 May 29 17:17	26°♁16'17		greatest brilliancy	1860 Jul 17 13:18	25°♁05'36	-6°-5'-50
	1855 Jun 03 22:43	0°♁		min. Earth dist.	1860 Jul 18 21:47	24°♁42'47	-2.7m
morning rise	1855 Jun 13 02:30	6°♁28'36		direct	1860 Jul 22 11:52	23°♁42'40	0.39089 AU
	1855 Jul 17 06:47	0°♁			1860 Aug 18 14:41	19°♁18'08	
	1855 Sep 01 02:45	0°♁			1860 Sep 29 18:00	0°♁	
	1855 Oct 20 00:54	0°♁			1860 Nov 21 03:47	0°♁	
	1855 Dec 14 03:44	0°♁		asc. node	1861 Jan 04 19:58	0°♁	
retrograde	1856 Feb 24 06:17	21°♁39'53			1861 Jan 18 13:12	9°♁24'06	
opposition	1856 Apr 02 13:30	12°♁59'58	2°47'06		1861 Feb 17 16:11	0°♁	
greatest brilliancy	1856 Apr 03 07:36	12°♁42'31	-1.4m		1861 Apr 03 06:50	0°♁	
min. Earth dist.	1856 Apr 07 21:24	10°♁56'47	0.62437 AU		1861 May 19 02:11	0°♁	
direct	1856 May 13 18:12	3°♁02'34		evening set	1861 Jul 04 21:32	0°♁	
desc. node	1856 Jun 15 12:52	8°♁58'07			1861 Jul 12 00:03	4°♁23'18	
	1856 Jun 31 05:20	0°♁		max. Earth dist.	1861 Aug 21 02:25	0°♁	
	1856 Sep 17 03:44	0°♁			1861 Aug 23 17:28	1°♁40'15	2.67586 AU
	1856 Oct 29 02:08	0°♁		conjunction	1861 Aug 27 06:55	3°♁56'12	1°06'39
	1856 Dec 07 09:17	0°♁		minimum elong	1861 Aug 27 07:28	3°♁57'04	1°06'38
	1857 Jan 14 17:38	0°♁			1861 Oct 07 00:18	0°♁	
	1857 Feb 22 07:59	0°♁		morning rise	1861 Oct 10 15:33	2°♁20'38	
	1857 Apr 03 02:23	0°♁			1861 Nov 22 03:11	0°♁	
evening set	1857 Apr 10 01:17	5°♁07'10			1862 Jan 06 06:38	0°♁	
asc. node	1857 Apr 15 16:45	9°♁14'42		desc. node	1862 Feb 05 10:57	20°♁23'57	
	1857 May 14 15:50	0°♁			1862 Feb 19 13:00	0°♁	
conjunction	1857 Jun 07 08:27	16°♁28'29	0°31'28		1862 Apr 04 06:03	0°♁	
minimum elong	1857 Jun 07 06:54	16°♁25'51	0°31'28		1862 May 18 09:36	0°♁	
	1857 Jun 27 06:24	0°♁		retrograde	1862 Jul 05 20:04	0°♁	
max. Earth dist.	1857 Jul 05 18:24	5°♁41'21	2.57843 AU	min. Earth dist.	1862 Sep 02 11:49	19°♁14'36	
morning rise	1857 Jul 29 17:28	21°♁29'16		greatest brilliancy	1862 Sep 29 00:36	14°♁39'29	0.40576 AU
	1857 Aug 11 20:23	0°♁		opposition	1862 Oct 04 20:35	12°♁51'48	-2.7m
	1857 Sep 28 04:16	0°♁		direct	1862 Oct 06 00:30	12°♁30'13	-3°-44'-29
	1857 Nov 16 09:30	0°♁		asc. node	1862 Nov 05 14:00	6°♁51'57	
	1858 Jan 08 06:10	0°♁			1862 Dec 06 13:01	12°♁26'55	
	1858 Mar 22 03:33	0°♁			1863 Jan 15 09:19	0°♁	
retrograde	1858 Apr 10 20:00	2°♁10'47			1863 Mar 09 09:51	0°♁	
	1858 Apr 29 11:03	30°♁			1863 Apr 27 23:24	0°♁	
					1863 Jun 15 17:20	0°♁	

	1863 Aug 02 19:30	0°♄		morning rise	1868 Mar 06 21:43	1°♁40'43	
evening set	1863 Aug 18 08:40	9°♄50'02			1868 Apr 12 01:35	0°♃	
max. Earth dist.	1863 Sep 16 05:21	28°♄19'48	2.64316 AU		1868 May 21 07:59	0°♂	
	1863 Sep 18 19:13	0°♁		asc. node	1868 Jul 01 10:56	0°♄	
conjunction	1863 Oct 02 22:08	9°♁12'11	0°43'39		1868 Jul 28 10:13	18°♄41'08	
minimum elong	1863 Oct 02 23:16	9°♁14'02	0°43'38		1868 Aug 14 10:10	0°♅	
	1863 Nov 03 05:55	0°♆			1868 Oct 02 03:30	0°♆	
morning rise	1863 Nov 17 09:26	9°♆34'50		retrograde	1868 Dec 06 02:58	0°♇	
	1863 Dec 16 23:01	0°♈			1869 Jan 04 14:42	4°♇47'04	
desc. node	1863 Dec 24 09:32	5°♈13'21		opposition	1869 Jan 31 16:52	30°♇♁	
	1864 Jan 28 01:00	0°♉		greatest brilliancy	1869 Feb 13 16:46	25°♇05'00	4°31'16
	1864 Mar 08 19:07	0°♊		min. Earth dist.	1869 Feb 13 15:44	25°♇06'01	-1.2m
	1864 Apr 17 18:29	0°♋		direct	1869 Feb 13 17:21	25°♇04'25	0.67719 AU
	1864 May 27 21:00	0°♌			1869 Mar 26 10:31	15°♇16'41	
	1864 Jul 08 18:41	0°♍			1869 May 22 13:37	0°♎	
	1864 Aug 25 23:52	0°♆		desc. node	1869 Jul 19 03:23	0°♏	
retrograde	1864 Oct 23 21:10	18°♆47'18			1869 Aug 15 06:05	16°♏32'29	
asc. node	1864 Oct 23 13:12	18°♆47'16			1869 Sep 05 01:16	0°♐	
min. Earth dist.	1864 Nov 23 23:04	12°♆09'41	0.53398 AU		1869 Oct 18 11:50	0°♑	
greatest brilliancy	1864 Nov 30 11:20	9°♆40'24	-1.9m	evening set	1869 Nov 28 01:15	0°♒	
opposition	1864 Dec 01 06:14	9°♆22'17	1°51'49		1870 Jan 04 12:00	28°♒57'37	
direct	1864 Dec 01 06:14	9°♆22'17	1°51'49		1870 Jan 05 19:48	0°♓	
	1865 Jan 05 11:48	1°♆32'28			1870 Feb 12 19:54	0°♈	
	1865 Mar 31 02:58	0°♅					
	1865 May 24 11:19	0°♆		conjunction	1870 Mar 12 18:05	21°♈59'15	0°-53'-59
	1865 Jul 13 16:58	0°♇		minimum elong	1870 Mar 12 21:09	22°♈05'14	0°53'58
	1865 Aug 30 10:23	0°♈			1870 Mar 23 00:38	0°♉	
evening set	1865 Sep 24 09:02	16°♈18'10			1870 May 01 06:42	0°♊	
max. Earth dist.	1865 Oct 12 19:29	28°♈39'14	2.55877 AU	max. Earth dist.	1870 May 01 15:06	0°♋15'46	2.40151 AU
	1865 Oct 14 19:08	0°♉		morning rise	1870 May 20 14:23	14°♋18'57	
desc. node	1865 Nov 10 08:19	18°♉18'39			1870 Jun 11 07:17	0°♌	
				asc. node	1870 Jun 15 10:13	2°♌55'44	
conjunction	1865 Nov 11 09:46	19°♌03'13	0°00'-38		1870 Jul 24 15:16	0°♍	
minimum elong	1865 Nov 11 09:42	19°♌03'08	0°00'38		1870 Sep 08 18:58	0°♎	
behind sun begin	1865 Nov 10 13:02	18°♌26'55			1870 Oct 29 01:47	0°♏	
behind sun end	1865 Nov 12 06:22	19°♌39'22			1870 Dec 30 17:16	0°♐	
	1865 Nov 26 20:52	0°♑		retrograde	1871 Feb 09 02:49	8°♐09'20	
morning rise	1866 Jan 01 13:42	26°♑00'08			1871 Mar 17 21:28	30°♐♄	
	1866 Jan 06 22:42	0°♒		opposition	1871 Mar 20 03:57	29°♐06'58	3°32'57
	1866 Feb 15 12:31	0°♓		greatest brilliancy	1871 Mar 20 19:29	28°♐51'46	-1.3m
	1866 Mar 26 06:34	0°♈		min. Earth dist.	1871 Mar 24 01:00	27°♐35'58	0.65210 AU
	1866 May 04 00:45	0°♉		direct	1871 Apr 30 13:36	19°♐04'51	
	1866 Jun 12 19:06	0°♊			1871 Jun 16 09:08	0°♑	
	1866 Jul 24 22:04	0°♋		desc. node	1871 Jul 03 05:28	7°♑35'08	
asc. node	1866 Sep 10 11:40	0°♌15'23			1871 Aug 12 15:39	0°♒	
	1866 Sep 10 01:03	0°♍			1871 Sep 27 06:32	0°♓	
	1866 Nov 25 18:21	0°♎			1871 Nov 07 12:08	0°♔	
retrograde	1866 Dec 01 22:07	0°♏15'05			1871 Dec 16 12:00	0°♕	
	1866 Dec 07 22:47	30°♏♅			1872 Jan 23 15:23	0°♖	
min. Earth dist.	1867 Jan 07 02:07	21°♏49'31	0.63624 AU		1872 Mar 02 00:53	0°♗	
opposition	1867 Jan 10 22:25	20°♏17'05	4°08'39	evening set	1872 Mar 15 23:25	10°♗42'22	
greatest brilliancy	1867 Jan 10 03:07	20°♏36'25	-1.4m		1872 Apr 10 13:54	0°♘	
direct	1867 Feb 18 14:46	11°♏10'08		asc. node	1872 May 02 08:23	15°♘59'00	
	1867 Apr 26 02:14	0°♐					
	1867 Jun 22 06:55	0°♑		conjunction	1872 May 17 15:25	26°♘58'16	0°09'43
	1867 Aug 11 02:24	0°♒		minimum elong	1872 May 17 14:47	26°♘57'08	0°09'42
	1867 Sep 26 00:47	0°♓		behind sun begin	1872 May 16 18:51	26°♘21'39	
desc. node	1867 Sep 28 07:13	1°♓32'17		behind sun end	1872 May 18 10:43	27°♘32'34	
evening set	1867 Nov 07 14:29	29°♓43'59			1872 May 21 21:49	0°♔	
	1867 Nov 07 23:23	0°♕		max. Earth dist.	1872 Jun 23 09:37	22°♔34'48	2.53499 AU
max. Earth dist.	1867 Nov 23 11:58	11°♕17'35	2.43486 AU		1872 Jul 04 08:16	0°♕	
	1867 Dec 18 13:55	0°♖		morning rise	1872 Jul 12 20:03	5°♕41'48	
					1872 Aug 18 22:05	0°♖	
conjunction	1868 Jan 02 05:32	11°♖09'42	0°-52'-17		1872 Oct 05 15:19	0°♗	
minimum elong	1868 Jan 02 03:22	11°♖05'33	0°52'16		1872 Nov 25 05:47	0°♘	
	1868 Jan 26 13:40	0°♙			1873 Jan 22 12:35	0°♚	
	1868 Mar 04 18:33	0°♈		retrograde	1873 Mar 21 22:29	15°♚17'24	

opposition	1873 Apr 27 14:46	7°♄22'35	0°59'46		1878 May 06 06:24	0°☾	
greatest brilliancy	1873 Apr 28 01:20	7°♄12'47	-1.8m		1878 Jun 23 01:05	0°♁	
min. Earth dist.	1873 May 04 23:07	4°♄39'33	0.56325 AU	evening set	1878 Aug 03 23:58	26°♁23'57	
desc. node	1873 May 20 04:03	29°♁57'46			1878 Aug 09 16:34	0°♃	
	1873 May 20 00:16	30°♃♁		max. Earth dist.	1878 Sep 06 20:44	17°♃56'24	2.66228 AU
direct	1873 Jun 06 18:08	27°♁51'40					
	1873 Jun 25 07:52	0°♄		conjunction	1878 Sep 18 12:13	25°♃25'25	0°55'20
	1873 Aug 30 02:57	0°♃		minimum elong	1878 Sep 18 13:17	25°♃27'08	0°55'19
	1873 Oct 13 19:18	0°☾			1878 Sep 25 14:11	0°♁	
	1873 Nov 23 04:09	0°♂		morning rise	1878 Nov 02 03:21	24°♁36'41	
	1874 Jan 01 03:35	0°♁			1878 Nov 10 05:36	0°♄	
	1874 Feb 09 06:30	0°♃			1878 Dec 24 09:29	0°♃	
asc. node	1874 Mar 20 07:00	29°♃05'30		desc. node	1879 Jan 10 01:11	11°♃34'43	
	1874 Mar 21 12:49	0°♂			1879 Feb 05 03:05	0°☾	
	1874 May 02 13:17	0°♁			1879 Mar 18 16:22	0°♂	
evening set	1874 May 13 20:02	7°♁49'25			1879 Apr 28 14:09	0°♁	
	1874 Jun 15 12:29	0°☾			1879 Jun 08 23:46	0°♃	
					1879 Jul 23 18:00	0°♂	
conjunction	1874 Jul 05 13:20	13°☾16'26	0°55'30	retrograde	1879 Oct 06 20:34	28°♂48'32	
minimum elong	1874 Jul 05 11:55	13°☾14'07	0°55'29	min. Earth dist.	1879 Nov 04 17:27	23°♂02'21	0.48241 AU
max. Earth dist.	1874 Jul 22 13:20	24°☾22'53	2.63095 AU	asc. node	1879 Nov 10 04:32	21°♂04'14	
	1874 Jul 31 05:32	0°♁		opposition	1879 Nov 12 20:11	20°♂06'11	0°08'39
morning rise	1874 Aug 22 18:13	14°♁27'53		greatest brilliancy	1880 Feb 08 16:04	27°♂22'32	-3.1m
	1874 Sep 16 05:33	0°♃		direct	1879 Dec 16 09:02	13°♂01'29	
	1874 Nov 03 04:11	0°♁			1880 Feb 14 11:39	0°♁	
	1874 Dec 22 06:39	0°♄			1880 Apr 11 13:21	0°☾	
	1875 Feb 12 06:21	0°♃			1880 Jun 01 20:14	0°♁	
desc. node	1875 Apr 07 02:58	25°♃41'01			1880 Jul 21 00:13	0°♃	
	1875 Apr 20 00:53	0°☾			1880 Sep 06 08:42	0°♁	
retrograde	1875 May 18 22:12	4°☾32'50		evening set	1880 Sep 09 04:58	1°♁50'34	
	1875 Jun 15 15:10	30°♃♁		max. Earth dist.	1880 Oct 01 08:18	16°♁21'25	2.59755 AU
opposition	1875 Jun 20 08:34	28°♃33'39	-3°-56'-55		1880 Oct 21 17:02	0°♄	
greatest brilliancy	1875 Jun 21 21:04	28°♃05'07	-2.5m				
min. Earth dist.	1875 Jun 28 05:07	26°♃06'55	0.43320 AU	conjunction	1880 Oct 25 19:45	2°♄47'29	0°18'40
direct	1875 Jul 25 14:32	21°♃21'45		minimum elong	1880 Oct 25 20:26	2°♄48'39	0°18'39
	1875 Aug 31 21:58	0°☾		desc. node	1880 Nov 26 23:44	25°♄03'10	
	1875 Oct 23 23:26	0°♂			1880 Dec 03 23:41	0°♃	
	1875 Dec 06 03:12	0°♁		morning rise	1880 Dec 13 00:15	6°♃25'54	
	1876 Jan 16 18:18	0°♃			1881 Jan 14 09:29	0°☾	
asc. node	1876 Feb 05 06:40	13°♃59'14			1881 Feb 23 08:27	0°♂	
	1876 Feb 27 21:45	0°♂			1881 Apr 03 11:12	0°♁	
	1876 Apr 11 09:45	0°♁			1881 May 12 13:46	0°♃	
	1876 May 26 11:24	0°☾			1881 Jun 21 19:08	0°♂	
evening set	1876 Jun 26 15:12	20°☾14'01			1881 Aug 03 22:58	0°♁	
	1876 Jul 11 20:03	0°♁			1881 Sep 24 06:55	0°☾	
				asc. node	1881 Sep 27 04:20	1°☾23'29	
conjunction	1876 Aug 13 00:30	20°♁32'47	1°08'57	retrograde	1881 Nov 17 14:19	15°☾33'42	
minimum elong	1876 Aug 13 00:32	20°♁32'51	1°08'56	min. Earth dist.	1881 Dec 21 21:44	7°☾46'23	0.60279 AU
max. Earth dist.	1876 Aug 14 20:49	21°♁43'21	2.67391 AU	greatest brilliancy	1881 Dec 26 05:53	6°☾03'01	-1.6m
	1876 Aug 27 20:54	0°♃		opposition	1881 Dec 27 05:20	5°☾39'44	3°33'06
morning rise	1876 Sep 26 19:50	19°♃04'50			1882 Jan 12 07:23	30°♃♁	
	1876 Oct 13 22:01	0°♁		direct	1882 Feb 02 17:36	26°♁57'37	
	1876 Nov 29 12:50	0°♄			1882 Feb 26 02:36	0°☾	
	1877 Jan 14 15:49	0°♃			1882 May 08 11:26	0°♁	
desc. node	1877 Feb 22 02:34	25°♃07'00			1882 Jun 30 18:23	0°♃	
	1877 Mar 01 14:21	0°☾			1882 Aug 18 12:42	0°♁	
	1877 Apr 17 05:15	0°♂			1882 Oct 03 03:50	0°♄	
	1877 Jun 07 04:03	0°♁		desc. node	1882 Oct 14 23:17	8°♄04'40	
retrograde	1877 Aug 06 00:08	18°♁51'52		evening set	1882 Oct 20 03:51	11°♄40'08	
min. Earth dist.	1877 Sep 02 20:19	14°♁19'03	0.37665 AU	max. Earth dist.	1882 Nov 03 22:08	22°♄01'07	2.48600 AU
opposition	1877 Sep 05 23:43	13°♁27'25	-6°-9'-59		1882 Nov 15 02:39	0°♃	
greatest brilliancy	1877 Sep 05 07:29	13°♁38'34	-2.9m				
direct	1877 Oct 05 13:26	8°♁29'44		conjunction	1882 Dec 11 00:31	18°♃54'48	0°-33'-33
	1877 Dec 10 10:44	0°♃		minimum elong	1882 Dec 10 22:54	18°♃51'48	0°33'33
asc. node	1877 Dec 23 05:56	7°♃00'58			1882 Dec 25 20:41	0°☾	
	1878 Jan 30 20:08	0°♂			1883 Feb 03 01:01	0°♂	
	1878 Mar 19 16:49	0°♁		morning rise	1883 Feb 07 13:19	3°♂30'29	

	1883 Mar 13 09:56	0°♄		desc. node	1888 Jun 05 19:11	13°♁14'13	
	1883 Apr 20 19:58	0°♃			1888 Jul 22 03:42	0°♆	
	1883 May 30 04:56	0°♂			1888 Sep 10 19:34	0°♁	
	1883 Jul 10 12:41	0°♁			1888 Oct 23 11:07	0°♁	
asc. node	1883 Aug 15 02:45	24°♁09'52			1888 Dec 02 01:37	0°♁	
	1883 Aug 24 03:37	0°♁			1889 Jan 09 14:09	0°♄	
	1883 Oct 14 13:25	0°♁			1889 Feb 17 07:53	0°♃	
retrograde	1883 Dec 23 06:50	21°♁56'31			1889 Mar 29 05:26	0°♂	
min. Earth dist.	1884 Jan 30 23:28	12°♁41'12	0.66907 AU	asc. node	1889 Apr 06 00:21	5°♂42'55	
opposition	1884 Feb 01 11:44	12°♁04'50	4°32'43	evening set	1889 Apr 22 23:22	17°♂59'12	
greatest brilliancy	1884 Feb 01 02:56	12°♁13'39	-1.3m		1889 May 09 21:30	0°♁	
direct	1884 Mar 12 14:19	2°♁29'30					
	1884 Jun 04 20:04	0°♆		conjunction	1889 Jun 18 02:02	26°♁58'25	0°41'44
	1884 Jul 27 22:02	0°♁		minimum elong	1889 Jun 18 00:22	26°♁55'36	0°41'44
desc. node	1884 Aug 31 22:36	22°♁08'34			1889 Jun 22 13:58	0°♁	
	1884 Sep 12 19:26	0°♆		max. Earth dist.	1889 Jul 12 06:07	13°♁05'35	2.59920 AU
	1884 Oct 25 23:28	0°♁		morning rise	1889 Aug 07 18:12	0°♁23'29	
	1884 Dec 05 12:18	0°♁			1889 Aug 07 03:39	0°♁	
evening set	1884 Dec 10 04:26	3°♁33'18			1889 Sep 23 07:13	0°♆	
	1885 Jan 13 08:01	0°♁			1889 Nov 10 22:32	0°♁	
max. Earth dist.	1885 Feb 04 19:34	17°♁42'07	2.37083 AU		1890 Jan 01 00:29	0°♆	
					1890 Mar 01 05:34	0°♁	
conjunction	1885 Feb 11 11:59	22°♁59'04	-1°-4'-35	retrograde	1890 Apr 23 09:28	13°♁13'59	
minimum elong	1885 Feb 11 12:33	23°♁00'12	1°04'36	desc. node	1890 Apr 23 18:31	13°♁13'56	
	1885 Feb 20 08:57	0°♄		opposition	1890 May 27 19:06	6°♁23'09	-1°-43'-18
	1885 Mar 30 13:27	0°♃		greatest brilliancy	1890 May 28 14:30	6°♁06'35	-2.2m
morning rise	1885 Apr 23 07:37	18°♃18'48		min. Earth dist.	1890 Jun 05 07:25	3°♁29'31	0.48495 AU
	1885 May 08 18:19	0°♂			1890 Jun 17 10:43	30°♆	
	1885 Jun 18 17:52	0°♁		direct	1890 Jul 04 13:15	27°♆59'03	
asc. node	1885 Jul 02 00:57	9°♁23'08			1890 Jul 22 01:20	0°♁	
	1885 Aug 01 04:14	0°♁			1890 Sep 23 17:49	0°♁	
	1885 Sep 16 21:40	0°♁			1890 Nov 06 11:26	0°♁	
	1885 Nov 08 13:38	0°♆			1890 Dec 17 01:03	0°♄	
retrograde	1886 Jan 25 22:18	25°♆13'58			1891 Jan 26 06:04	0°♃	
opposition	1886 Mar 06 12:31	15°♆53'24	4°04'57	asc. node	1891 Feb 21 22:14	19°♃33'38	
greatest brilliancy	1886 Mar 06 22:37	15°♆43'25	-1.2m		1891 Mar 08 09:48	0°♂	
min. Earth dist.	1886 Mar 08 21:28	14°♆57'07	0.66987 AU		1891 Apr 20 03:56	0°♁	
direct	1886 Apr 16 20:24	5°♆53'13			1891 Jun 03 16:44	0°♁	
	1886 Jul 01 16:58	0°♁		evening set	1891 Jun 11 07:20	5°♁01'12	
desc. node	1886 Jul 19 20:47	9°♁51'34			1891 Jul 19 17:21	0°♁	
	1886 Aug 22 04:37	0°♆					
	1886 Oct 05 15:23	0°♁		conjunction	1891 Jul 30 07:04	6°♁47'27	1°07'13
	1886 Nov 15 12:11	0°♁		minimum elong	1891 Jul 30 06:32	6°♁46'35	1°07'13
	1886 Dec 24 08:43	0°♁		max. Earth dist.	1891 Aug 06 15:42	11°♁30'18	2.66358 AU
greatest brilliancy	1887 Jan 17 20:52	19°♁18'26	1.2m		1891 Sep 04 16:07	0°♆	
	1887 Jan 31 09:37	0°♄		morning rise	1891 Sep 14 00:35	5°♆56'31	
evening set	1887 Feb 17 06:42	13°♄17'53			1891 Oct 21 22:49	0°♁	
	1887 Mar 10 15:58	0°♃			1891 Dec 08 06:19	0°♆	
	1887 Apr 19 00:51	0°♂			1892 Jan 24 20:07	0°♁	
				desc. node	1892 Mar 10 17:32	28°♁13'38	
conjunction	1887 Apr 24 22:11	4°♂23'05	0°-16'-10		1892 Mar 13 16:39	0°♁	
minimum elong	1887 Apr 24 23:28	4°♂25'28	0°16'09		1892 May 06 22:42	0°♁	
asc. node	1887 May 20 01:09	22°♂45'06		retrograde	1892 Jul 05 03:28	17°♁14'00	
	1887 May 30 04:12	0°♁		opposition	1892 Aug 04 06:14	12°♁16'16	-6°-46'-52
max. Earth dist.	1887 Jun 09 07:56	7°♁10'36	2.48450 AU	greatest brilliancy	1892 Aug 05 00:06	12°♁04'22	-2.8m
morning rise	1887 Jun 24 23:13	18°♁03'23		min. Earth dist.	1892 Aug 06 14:05	11°♁39'08	0.37736 AU
	1887 Jul 12 11:39	0°♁		direct	1892 Sep 03 17:02	7°♁04'33	
	1887 Aug 27 03:24	0°♁			1892 Nov 09 09:15	0°♄	
	1887 Oct 14 11:33	0°♆			1892 Dec 27 23:03	0°♃	
	1887 Dec 06 08:34	0°♁		asc. node	1893 Jan 08 21:34	7°♃49'35	
	1888 Feb 27 10:55	0°♆			1893 Feb 11 08:23	0°♂	
retrograde	1888 Mar 04 11:15	0°♆12'56			1893 Mar 28 18:49	0°♁	
	1888 Mar 10 07:54	30°♆			1893 May 14 01:59	0°♁	
opposition	1888 Apr 11 06:16	21°♁47'16	2°13'02		1893 Jun 30 04:04	0°♁	
greatest brilliancy	1888 Apr 11 23:36	21°♁30'45	-1.5m	evening set	1893 Jul 20 11:41	12°♁52'13	
min. Earth dist.	1888 Apr 17 08:33	19°♁28'03	0.60501 AU		1893 Aug 16 12:07	0°♆	
direct	1888 May 22 04:41	11°♁56'07		max. Earth dist.	1893 Aug 28 21:57	7°♆53'38	2.67329 AU

conjunction	1893 Sep 04 09:00	12°♄00'50	1°03'32	asc. node	1898 Aug 31 18:37	28°♃41'58	
minimum elong	1893 Sep 04 09:48	12°♄02'06	1°03'31		1898 Sep 02 21:35	0°♄	
	1893 Oct 02 09:37	0°♄			1898 Oct 30 22:19	0°♂	
morning rise	1893 Oct 18 16:47	10°♄33'49		retrograde	1898 Dec 09 20:00	8°♂40'46	
	1893 Nov 17 07:50	0°♃			1899 Jan 15 19:12	30°♃	
	1894 Jan 01 01:49	0°♂		min. Earth dist.	1899 Jan 15 22:37	29°♄56'35	0.65070 AU
desc. node	1894 Jan 26 16:49	17°♂32'16		opposition	1899 Jan 18 23:32	28°♄43'27	4°21'49
	1894 Feb 13 16:37	0°♂		greatest brilliancy	1899 Jan 18 07:31	28°♄59'32	-1.3m
	1894 Mar 28 10:33	0°♂		direct	1899 Feb 27 05:54	19°♄25'07	
	1894 May 09 23:34	0°♂			1899 Apr 15 10:23	0°♂	
	1894 Jun 23 07:33	0°♂			1899 Jun 16 04:25	0°♄	
	1894 Aug 19 10:01	0°♂			1899 Aug 05 23:06	0°♄	
retrograde	1894 Sep 16 00:15	5°♂03'48		desc. node	1899 Sep 18 13:27	28°♄12'50	
min. Earth dist.	1894 Oct 13 00:05	0°♂07'38	0.43098 AU		1899 Sep 21 05:12	0°♃	
	1894 Oct 13 09:38	30°♃			1899 Nov 03 06:05	0°♂	
opposition	1894 Oct 20 22:16	27°♂31'05	-2°-11'-56	evening set	1899 Nov 19 00:18	11°♂27'51	
greatest brilliancy	1894 Oct 20 01:25	27°♂48'22	-2.5m	max. Earth dist.	1899 Dec 08 13:43	26°♂01'10	2.40717 AU
direct	1894 Nov 21 14:34	21°♂20'58			1899 Dec 13 20:16	0°♂	
asc. node	1894 Nov 26 21:11	21°♂31'55					
	1894 Dec 31 08:13	0°♂		conjunction	1900 Jan 16 04:49	25°♂38'40	-1°00'-5
	1895 Mar 01 21:13	0°♂		minimum elong	1900 Jan 16 03:01	25°♂35'10	1°00'05
	1895 Apr 22 04:57	0°♄			1900 Jan 21 18:50	0°♂	
	1895 Jun 10 16:15	0°♂			1900 Feb 28 22:15	0°♂	
	1895 Jul 29 02:27	0°♄		morning rise	1900 Mar 25 00:40	18°♂57'36	
evening set	1895 Aug 26 13:46	18°♄00'41			1900 Apr 08 03:58	0°♂	
	1895 Sep 14 05:14	0°♄			1900 May 17 09:05	0°♂	
max. Earth dist.	1895 Sep 21 20:54	4°♄58'23	2.62923 AU		1900 Jun 27 09:21	0°♂	
				asc. node	1900 Jul 19 18:26	15°♂38'43	
conjunction	1895 Oct 11 08:38	17°♄46'52	0°35'22		1900 Aug 10 01:15	0°♄	
minimum elong	1895 Oct 11 09:41	17°♄48'37	0°35'21		1900 Sep 26 18:08	0°♂	
	1895 Oct 29 15:14	0°♃			1900 Nov 23 08:41	0°♄	
morning rise	1895 Nov 26 13:48	19°♃05'41		retrograde	1901 Jan 13 07:04	12°♄32'50	
	1895 Dec 12 04:48	0°♂		opposition	1901 Feb 22 06:11	2°♄57'27	4°24'55
desc. node	1895 Dec 14 16:10	1°♂44'33		greatest brilliancy	1901 Feb 22 09:18	2°♄54'21	-1.2m
	1896 Jan 23 00:38	0°♂		min. Earth dist.	1901 Feb 23 02:33	2°♄37'10	0.67741 AU
	1896 Mar 03 11:09	0°♂			1901 Mar 01 19:28	30°♃	
	1896 Apr 12 01:36	0°♂		direct	1901 Apr 04 06:52	23°♂03'48	
	1896 May 21 16:47	0°♂			1901 May 11 06:05	0°♄	
	1896 Jul 01 17:53	0°♂			1901 Jul 13 19:59	0°♄	
	1896 Aug 16 02:37	0°♂		desc. node	1901 Aug 06 12:26	13°♄59'36	
asc. node	1896 Oct 13 19:12	26°♂54'25			1901 Aug 31 18:13	0°♃	
retrograde	1896 Nov 02 06:48	29°♂24'34			1901 Oct 14 12:48	0°♂	
min. Earth dist.	1896 Dec 04 13:40	22°♂20'34	0.56076 AU		1901 Nov 24 04:44	0°♂	
greatest brilliancy	1896 Dec 10 06:45	20°♂07'10	-1.8m		1902 Jan 01 23:54	0°♂	
opposition	1896 Dec 11 05:42	19°♂44'48	2°36'44	evening set	1902 Jan 20 22:06	14°♂54'49	
direct	1897 Jan 16 08:18	11°♂34'00			1902 Feb 08 23:53	0°♂	
	1897 Mar 22 00:19	0°♄			1902 Mar 19 04:31	0°♂	
	1897 May 18 11:51	0°♂					
	1897 Jul 08 15:02	0°♄		conjunction	1902 Mar 30 00:47	8°♂23'34	0°-42'-1
	1897 Aug 25 16:44	0°♄		minimum elong	1902 Mar 30 03:55	8°♂29'36	0°42'00
evening set	1897 Oct 03 09:22	25°♄25'24			1902 Apr 27 10:49	0°♂	
	1897 Oct 10 03:59	0°♃		max. Earth dist.	1902 May 20 08:15	16°♂55'38	2.43066 AU
max. Earth dist.	1897 Oct 20 03:41	6°♃49'01	2.53462 AU	morning rise	1902 Jun 04 08:27	27°♂46'14	
desc. node	1897 Oct 31 14:47	14°♃44'55		asc. node	1902 Jun 06 17:01	29°♂27'21	
					1902 Jun 07 11:20	0°♂	
conjunction	1897 Nov 21 12:11	29°♃29'30	0°-12'-33		1902 Jul 20 17:43	0°♄	
minimum elong	1897 Nov 21 11:36	29°♃28'28	0°12'33		1902 Sep 04 14:47	0°♂	
behind sun begin	1897 Nov 20 21:45	29°♃03'44			1902 Oct 23 22:54	0°♄	
behind sun end	1897 Nov 22 01:28	29°♃53'13			1902 Dec 20 03:33	0°♄	
	1897 Nov 22 05:15	0°♂		retrograde	1903 Feb 18 15:34	16°♄17'11	
	1898 Jan 02 04:38	0°♂		opposition	1903 Mar 29 07:31	7°♄26'28	3°07'50
morning rise	1898 Jan 13 20:55	8°♂46'56		greatest brilliancy	1903 Mar 30 00:44	7°♄09'45	-1.4m
	1898 Feb 10 15:16	0°♂		min. Earth dist.	1903 Apr 02 23:40	5°♄37'40	0.63803 AU
	1898 Mar 21 05:46	0°♂			1903 Apr 19 20:47	30°♃	
	1898 Apr 28 20:10	0°♂		direct	1903 May 09 15:26	27°♄26'12	
	1898 Jun 07 09:34	0°♂			1903 May 30 17:20	0°♄	
	1898 Jul 19 02:07	0°♂		desc. node	1903 Jun 24 10:53	8°♄06'17	

	1903 Aug 06 16:27	0°♁		morning rise	1908 Oct 05 17:17	27°♁05'29	
	1903 Sep 22 13:52	0°♁			1908 Oct 10 06:05	0°♁	
	1903 Nov 03 05:31	0°♁			1908 Nov 25 14:18	0°♁	
	1903 Dec 12 09:56	0°♁			1909 Jan 10 03:55	0°♁	
	1904 Jan 19 15:50	0°♁		desc. node	1909 Feb 13 08:57	22°♁48'51	
evening set	1904 Feb 27 03:12	0°♁			1909 Feb 24 02:13	0°♁	
	1904 Mar 31 11:41	25°♁20'05			1909 Apr 09 20:34	0°♁	
asc. node	1904 Apr 06 18:05	0°♁			1909 May 25 22:53	0°♁	
	1904 Apr 23 16:05	12°♁26'06			1909 Jul 21 08:36	0°♁	
	1904 May 18 03:35	0°♁		retrograde	1909 Aug 23 02:21	6°♁47'42	
conjunction	1904 May 30 17:06	8°♁49'15	0°22'49	min. Earth dist.	1909 Sep 18 18:58	2°♁20'56	0.38947 AU
minimum elong	1904 May 30 15:48	8°♁47'00	0°22'48	greatest brilliancy	1909 Sep 23 07:19	1°♁02'12	-2.8m
	1904 Jun 30 14:56	0°♁		opposition	1909 Sep 24 10:09	0°♁42'38	-4°-54'-26
max. Earth dist.	1904 Jul 01 20:40	0°♁50'03	2.55988 AU	direct	1909 Sep 26 21:20	30°♁	
morning rise	1904 Jul 23 16:09	15°♁21'16			1909 Oct 24 07:15	25°♁26'53	
	1904 Aug 15 03:22	0°♁		asc. node	1909 Nov 20 20:47	0°♁	
	1904 Oct 01 13:52	0°♁			1909 Dec 14 12:39	9°♁14'17	
	1904 Nov 20 06:24	0°♁			1910 Jan 23 01:53	0°♁	
	1905 Jan 13 19:26	0°♁			1910 Mar 14 07:17	0°♁	
retrograde	1905 Apr 02 20:46	25°♁06'31			1910 May 01 20:49	0°♁	
opposition	1905 May 08 20:07	17°♁32'06	0°07'09		1910 Jun 19 03:30	0°♁	
greatest brilliancy	1904 Oct 16 03:32	8°♁58'03	-3.9m	evening set	1910 Aug 06 00:58	0°♁	
desc. node	1905 May 11 09:33	16°♁36'19		max. Earth dist.	1910 Aug 13 05:40	4°♁32'59	
min. Earth dist.	1905 May 16 18:23	14°♁40'25	0.53660 AU		1910 Sep 13 05:46	24°♁20'18	2.65277 AU
direct	1905 Jun 17 07:24	8°♁19'33			1910 Sep 22 00:14	0°♁	
	1905 Aug 21 19:33	0°♁		conjunction	1910 Sep 27 17:00	3°♁41'49	0°48'56
	1905 Oct 08 00:06	0°♁		minimum elong	1910 Sep 27 18:08	3°♁43'40	0°48'55
	1905 Nov 18 04:15	0°♁			1910 Nov 06 13:39	0°♁	
	1905 Dec 27 13:50	0°♁		morning rise	1910 Nov 11 17:22	3°♁27'44	
	1906 Feb 04 23:45	0°♁			1910 Dec 20 12:16	0°♁	
asc. node	1906 Mar 11 15:13	25°♁43'45		desc. node	1911 Jan 01 07:16	8°♁14'34	
	1906 Mar 17 11:54	0°♁			1911 Jan 31 21:30	0°♁	
	1906 Apr 28 17:00	0°♁			1911 Mar 14 00:07	0°♁	
evening set	1906 May 25 15:23	18°♁27'56			1911 Apr 23 08:28	0°♁	
	1906 Jun 11 19:39	0°♁			1911 Jun 02 21:47	0°♁	
					1911 Jul 15 16:01	0°♁	
conjunction	1906 Jul 15 19:57	22°♁22'39	1°01'07		1911 Sep 05 15:20	0°♁	
minimum elong	1906 Jul 15 18:48	22°♁20'48	1°01'08	retrograde	1911 Oct 18 08:37	10°♁57'47	
	1906 Jul 27 14:13	0°♁		asc. node	1911 Nov 01 12:43	9°♁28'14	
max. Earth dist.	1906 Jul 29 05:38	1°♁03'36	2.64483 AU	min. Earth dist.	1911 Nov 17 11:09	4°♁42'55	0.51120 AU
morning rise	1906 Aug 31 23:38	22°♁40'05		opposition	1911 Nov 25 04:59	1°♁48'53	1°12'21
	1906 Sep 12 12:53	0°♁		greatest brilliancy	1911 Nov 24 15:17	2°♁01'44	-2.1m
	1906 Oct 30 04:26	0°♁			1911 Nov 30 04:08	30°♁	
	1906 Dec 17 12:07	0°♁		direct	1911 Dec 29 16:25	24°♁18'13	
	1907 Feb 05 09:29	0°♁			1912 Jan 30 21:02	0°♁	
desc. node	1907 Mar 29 09:54	28°♁22'11			1912 Apr 05 11:31	0°♁	
	1907 Apr 01 18:32	0°♁			1912 May 28 08:16	0°♁	
retrograde	1907 Jun 05 06:42	18°♁53'55			1912 Jul 17 02:42	0°♁	
opposition	1907 Jul 06 15:28	13°♁23'24	-5°-14'-26		1912 Sep 02 17:03	0°♁	
greatest brilliancy	1907 Jul 08 05:36	12°♁55'16	-2.6m	evening set	1912 Sep 18 18:56	10°♁27'29	
min. Earth dist.	1907 Jul 13 04:42	11°♁27'56	0.40758 AU	max. Earth dist.	1912 Oct 08 17:59	23°♁41'28	2.57707 AU
direct	1907 Aug 09 03:28	6°♁58'50			1912 Oct 18 02:39	0°♁	
	1907 Oct 13 14:29	0°♁					
	1907 Nov 29 04:30	0°♁		conjunction	1912 Nov 05 02:17	12°♁18'27	0°07'49
	1908 Jan 11 04:39	0°♁		minimum elong	1912 Nov 05 02:36	12°♁18'58	0°07'49
asc. node	1908 Jan 27 13:04	11°♁28'32		behind sun begin	1912 Nov 04 08:32	11°♁47'46	
	1908 Feb 23 03:25	0°♁		behind sun end	1912 Nov 05 20:39	12°♁50'12	
	1908 Apr 07 04:06	0°♁		desc. node	1912 Nov 18 06:18	21°♁28'53	
	1908 May 22 14:14	0°♁			1912 Nov 30 07:40	0°♁	
evening set	1908 Jul 06 12:25	28°♁56'56		morning rise	1912 Dec 24 18:41	17°♁37'59	
	1908 Jul 08 03:54	0°♁			1913 Jan 10 13:43	0°♁	
max. Earth dist.	1908 Aug 21 01:48	27°♁57'37	2.67612 AU		1913 Feb 19 08:00	0°♁	
					1913 Mar 30 05:53	0°♁	
conjunction	1908 Aug 22 05:24	28°♁41'31	1°08'03		1913 May 08 03:00	0°♁	
minimum elong	1908 Aug 22 05:45	28°♁42'05	1°08'03		1913 Jun 17 00:38	0°♁	
	1908 Aug 24 06:44	0°♁			1913 Jul 29 10:31	0°♁	

	1913 Sep 15 17:18	0°☾			1918 Dec 20 09:05	0°≈	
asc. node	1913 Sep 18 11:30	1°☾30'53			1919 Jan 27 11:20	0°✠	
retrograde	1913 Nov 26 21:11	24°☾33'53		evening set	1919 Mar 06 04:06	29°✠31'33	
min. Earth dist.	1914 Jan 01 05:55	16°☾25'09	0.62244 AU		1919 Mar 06 18:48	0°☿	
opposition	1914 Jan 05 18:35	14°☾36'44	3°56'09		1919 Apr 15 05:00	0°♁	
greatest brilliancy	1914 Jan 04 20:56	14°☾58'21	-1.5m				
direct	1914 Feb 12 23:35	5°☾40'15		conjunction	1919 May 09 18:11	18°♁03'21	0°-1'-1
	1914 May 01 20:30	0°♁		minimum elong	1919 May 09 18:18	18°♁03'32	0°01'02
	1914 Jun 26 04:48	0°♊		behind sun begin	1919 May 08 16:41	17°♁17'08	
	1914 Aug 14 14:10	0°♋		behind sun end	1919 May 10 19:54	18°♁49'54	
	1914 Sep 29 10:38	0°♌		asc. node	1919 May 11 08:06	19°♁11'58	
desc. node	1914 Oct 06 05:16	4°♌36'23			1919 May 26 09:38	0°♍	
evening set	1914 Oct 31 09:23	22°♌06'53		max. Earth dist.	1919 Jun 19 10:05	16°♍49'22	2.51323 AU
	1914 Nov 11 10:46	0°♎		morning rise	1919 Jul 06 23:28	28°♍49'26	
max. Earth dist.	1914 Nov 15 03:33	2°♎39'51	2.45797 AU		1919 Jul 08 17:14	0°☾	
	1914 Dec 22 03:48	0°♏			1919 Aug 23 06:17	0°♁	
					1919 Oct 10 03:53	0°♊	
conjunction	1914 Dec 24 04:19	1°♏31'33	0°-44'-47		1919 Nov 30 12:10	0°♋	
minimum elong	1914 Dec 24 02:15	1°♏27'40	0°44'47		1920 Jan 31 23:18	0°♌	
	1915 Jan 30 06:12	0°≈		retrograde	1920 Mar 15 03:04	9°♌05'57	
morning rise	1915 Feb 24 01:29	19°≈24'26		opposition	1920 Apr 21 08:43	0°♌56'16	1°33'01
	1915 Mar 09 12:56	0°✠		greatest brilliancy	1920 Apr 21 23:07	0°♌42'45	-1.6m
greatest brilliancy	1915 Mar 17 20:05	6°✠31'24	1.2m		1920 Apr 23 20:29	30°♌♁	
	1915 Apr 16 20:42	0°☿		min. Earth dist.	1920 Apr 28 04:29	28°♌22'47	0.58306 AU
	1915 May 26 03:08	0°♁		desc. node	1920 May 28 01:59	21°♌20'33	
	1915 Jul 06 06:23	0°♍		direct	1920 May 31 22:25	21°♌14'39	
asc. node	1915 Aug 06 09:51	21°♍26'47			1920 Jul 10 18:14	0°♎	
	1915 Aug 19 09:10	0°☾			1920 Sep 04 20:27	0°♎	
	1915 Oct 07 20:48	0°♁			1920 Oct 18 13:22	0°♏	
retrograde	1915 Dec 31 22:29	29°♁49'24			1920 Nov 27 13:38	0°≈	
min. Earth dist.	1916 Feb 09 10:26	20°♁18'42	0.67485 AU		1921 Jan 05 07:39	0°✠	
opposition	1916 Feb 10 02:39	20°♁02'29	4°33'20		1921 Feb 13 05:21	0°☿	
greatest brilliancy	1916 Feb 09 22:07	20°♁07'02	-1.2m		1921 Mar 25 06:26	0°♁	
direct	1916 Mar 21 14:43	10°♁19'34		asc. node	1921 Mar 28 06:26	2°♁11'56	
	1916 May 28 18:42	0°♊		evening set	1921 May 06 03:24	0°♍02'54	
	1916 Jul 23 05:23	0°♋			1921 May 06 01:45	0°♍	
desc. node	1916 Aug 23 03:48	19°♋10'00			1921 Jun 18 20:34	0°☾	
	1916 Sep 08 17:43	0°♌					
	1916 Oct 22 02:57	0°♎		conjunction	1921 Jun 29 06:26	6°☾56'46	0°50'20
	1916 Dec 01 17:10	0°♏		minimum elong	1921 Jun 29 04:51	6°☾54'09	0°50'19
evening set	1916 Dec 25 02:15	17°♏56'57		max. Earth dist.	1921 Jul 19 10:16	20°☾13'41	2.61785 AU
	1917 Jan 09 12:55	0°≈			1921 Aug 03 11:01	0°♁	
	1917 Feb 16 13:33	0°✠		morning rise	1921 Aug 17 11:10	9°♁01'08	
					1921 Sep 19 11:40	0°♊	
conjunction	1917 Feb 28 21:09	9°✠43'42	-1°00'-26		1921 Nov 06 16:13	0°♋	
minimum elong	1917 Feb 28 23:25	9°✠48'10	1°00'26		1921 Dec 26 11:48	0°♌	
	1917 Mar 26 17:40	0°☿			1922 Feb 18 16:15	0°♎	
max. Earth dist.	1917 Apr 10 19:47	11°☿40'31	2.38097 AU	desc. node	1922 Apr 15 00:45	22°♎16'02	
	1917 May 04 22:14	0°♁		retrograde	1922 May 08 06:09	25°♎16'20	
morning rise	1917 May 10 03:46	3°♁54'53		opposition	1922 Jun 10 14:10	18°♎53'23	-2°-57'-16
	1917 Jun 14 20:57	0°♍		greatest brilliancy	1922 Jun 11 20:52	18°♎28'19	-2.3m
asc. node	1917 Jun 23 09:45	6°♍03'26		min. Earth dist.	1922 Jun 18 22:37	16°♎10'21	0.45595 AU
	1917 Jul 28 04:00	0°☾		direct	1922 Jul 17 02:12	11°♎06'08	
	1917 Sep 12 10:52	0°♁			1922 Sep 13 13:02	0°♏	
	1917 Nov 02 11:00	0°♊			1922 Oct 30 18:54	0°≈	
	1918 Jan 11 08:55	0°♋			1922 Dec 11 13:10	0°✠	
retrograde	1918 Feb 03 23:01	3°♋03'54			1923 Jan 21 10:07	0°☿	
	1918 Feb 25 19:00	30°♋♁		asc. node	1923 Feb 13 06:05	16°☿34'17	
opposition	1918 Mar 15 06:44	23°♋52'48	3°47'41		1923 Mar 04 00:41	0°♁	
greatest brilliancy	1918 Mar 15 20:00	23°♋39'45	-1.3m		1923 Apr 16 02:54	0°♍	
min. Earth dist.	1918 Mar 18 11:27	22°♋37'25	0.66130 AU		1923 May 30 21:19	0°☾	
direct	1918 Apr 25 16:44	13°♋50'58		evening set	1923 Jun 21 18:57	14°☾19'27	
	1918 Jun 23 19:19	0°♌			1923 Jul 16 01:25	0°♁	
desc. node	1918 Jul 11 03:02	8°♌35'19					
	1918 Aug 17 04:16	0°♎		conjunction	1923 Aug 08 19:35	15°♁12'24	1°08'43
	1918 Oct 01 07:42	0°♎		minimum elong	1923 Aug 08 19:23	15°♁12'05	1°08'44
	1918 Nov 11 10:13	0°♏		max. Earth dist.	1923 Aug 13 01:00	17°♁54'11	2.67039 AU

	1923 Sep 01 00:57	0°♄		min. Earth dist.	1928 Dec 15 14:28	1°♄49'11	0.58497 AU
morning rise	1923 Sep 22 23:14	13°♄56'53			1928 Dec 20 05:23	30°♄	
	1923 Oct 18 04:17	0°♄		opposition	1928 Dec 21 13:35	29°♄28'15	3°12'28
	1923 Dec 04 02:11	0°♄		greatest brilliancy	1928 Dec 20 13:24	29°♄52'05	-1.7m
	1924 Jan 19 19:05	0°♄		direct	1929 Jan 27 12:02	20°♄59'18	
desc. node	1924 Mar 02 00:08	26°♄58'14			1929 Mar 10 23:18	0°♄	
	1924 Mar 06 19:02	0°♄			1929 May 13 02:32	0°♄	
	1924 Apr 24 15:58	0°♄			1929 Jul 04 10:03	0°♄	
	1924 Jun 24 16:27	0°♄			1929 Aug 21 21:51	0°♄	
retrograde	1924 Jul 24 11:01	5°♄18'37			1929 Oct 06 12:27	0°♄	
opposition	1924 Aug 23 17:02	0°♄15'01	-6°-44'-20	evening set	1929 Oct 13 18:47	4°♄56'47	
min. Earth dist.	1924 Aug 22 23:45	0°♄26'29	0.37285 AU	desc. node	1929 Oct 22 20:53	11°♄11'57	
greatest brilliancy	1924 Aug 23 15:27	0°♄16'04	-2.9m	max. Earth dist.	1929 Oct 29 04:14	15°♄34'59	2.50824 AU
direct	1924 Aug 24 15:39	30°♄			1929 Nov 18 13:29	0°♄	
	1924 Sep 22 09:15	25°♄19'50					
	1924 Oct 19 18:42	0°♄		conjunction	1929 Dec 03 07:11	10°♄39'10	0°-24'-41
	1924 Dec 19 11:09	0°♄		minimum elong	1929 Dec 03 06:01	10°♄37'02	0°24'41
asc. node	1924 Dec 31 05:36	7°♄08'51			1929 Dec 29 10:45	0°♄	
	1925 Feb 05 10:17	0°♄		morning rise	1930 Jan 28 08:40	22°♄44'36	
	1925 Mar 24 00:42	0°♄			1930 Feb 06 18:21	0°♄	
	1925 May 09 22:44	0°♄			1930 Mar 17 05:55	0°♄	
evening set	1925 Jun 26 09:07	0°♄			1930 Apr 24 17:27	0°♄	
	1925 Jul 29 20:39	21°♄07'30			1930 Jun 03 03:15	0°♄	
	1925 Aug 12 21:12	0°♄			1930 Jul 14 12:54	0°♄	
	1925 Sep 04 05:04	14°♄12'29	2.66824 AU	asc. node	1930 Aug 23 02:26	26°♄35'12	
conjunction	1925 Sep 13 11:31	20°♄08'26	0°59'09		1930 Aug 28 11:27	0°♄	
minimum elong	1925 Sep 13 12:29	20°♄10'00	0°59'09	retrograde	1930 Dec 18 13:45	16°♄48'44	
morning rise	1925 Sep 28 19:01	0°♄		min. Earth dist.	1931 Jan 25 14:13	7°♄47'01	0.66214 AU
	1925 Oct 27 21:40	18°♄58'20		opposition	1931 Jan 27 19:07	6°♄54'00	4°29'51
	1925 Nov 13 14:02	0°♄		greatest brilliancy	1931 Jan 27 06:56	7°♄06'12	-1.3m
	1925 Dec 28 00:35	0°♄			1931 Feb 16 14:28	30°♄	
desc. node	1926 Jan 17 22:47	14°♄27'01		direct	1931 Mar 08 13:52	27°♄25'48	
	1926 Feb 09 03:34	0°♄			1931 Mar 30 03:47	0°♄	
	1926 Mar 23 04:39	0°♄			1931 Jun 10 14:58	0°♄	
	1926 May 03 17:03	0°♄			1931 Aug 01 16:37	0°♄	
retrograde	1926 Jun 15 00:50	0°♄		desc. node	1931 Sep 09 20:08	24°♄59'10	
	1926 Aug 01 09:14	0°♄			1931 Sep 17 08:43	0°♄	
	1926 Sep 29 05:43	19°♄27'26			1931 Oct 30 12:46	0°♄	
	1926 Oct 27 05:06	14°♄04'09	0.45882 AU	evening set	1931 Dec 02 04:25	24°♄00'17	
opposition	1926 Nov 04 09:30	11°♄12'37	0°-47'-2		1931 Dec 10 03:10	0°♄	
greatest brilliancy	1926 Nov 04 00:47	11°♄20'16	-2.4m	max. Earth dist.	1932 Jan 01 23:24	17°♄30'10	2.38278 AU
asc. node	1926 Nov 18 04:10	6°♄56'11			1932 Jan 18 00:34	0°♄	
direct	1926 Dec 07 02:25	4°♄31'24					
evening set	1927 Feb 22 00:43	0°♄		conjunction	1932 Feb 01 05:31	11°♄09'12	-1°-4'-22
	1927 Apr 17 01:29	0°♄		minimum elong	1932 Feb 01 04:50	11°♄07'51	1°04'22
	1927 Jun 06 11:36	0°♄			1932 Feb 25 02:36	0°♄	
	1927 Jul 25 07:47	0°♄			1932 Apr 03 07:02	0°♄	
max. Earth dist.	1927 Sep 04 21:56	26°♄20'03		morning rise	1932 Apr 11 07:47	6°♄14'10	
	1927 Sep 10 14:19	0°♄			1932 May 12 10:53	0°♄	
	1927 Sep 28 19:20	11°♄52'23	2.61267 AU		1932 Jun 22 09:19	0°♄	
				asc. node	1932 Jul 10 00:30	12°♄25'08	
conjunction	1927 Oct 21 02:09	26°♄40'58	0°26'01		1932 Aug 04 19:52	0°♄	
minimum elong	1927 Oct 21 03:02	26°♄42'26	0°25'59		1932 Sep 20 19:43	0°♄	
desc. node	1927 Oct 26 00:20	0°♄			1932 Nov 13 21:25	0°♄	
	1927 Dec 05 21:27	28°♄11'30		retrograde	1933 Jan 21 01:28	20°♄17'01	
	1927 Dec 07 06:55	29°♄10'27		opposition	1933 Mar 01 20:28	10°♄49'21	4°14'31
	1927 Dec 08 11:01	0°♄		greatest brilliancy	1933 Mar 02 03:33	10°♄42'20	-1.2m
morning rise	1928 Jan 19 02:02	0°♄		min. Earth dist.	1933 Mar 03 13:00	10°♄09'11	0.67460 AU
	1928 Feb 28 06:30	0°♄		direct	1933 Apr 12 02:17	0°♄51'39	
	1928 Apr 07 14:27	0°♄			1933 Jul 06 22:02	0°♄	
	1928 May 16 21:35	0°♄		desc. node	1933 Jul 27 18:30	11°♄46'48	
asc. node	1928 Jun 26 09:04	0°♄			1933 Aug 26 06:34	0°♄	
	1928 Aug 09 04:09	0°♄			1933 Oct 09 11:35	0°♄	
	1928 Oct 03 03:46	0°♄			1933 Nov 19 07:18	0°♄	
	1928 Oct 05 03:26	0°♄48'25			1933 Dec 28 03:43	0°♄	
retrograde	1928 Nov 12 04:13	9°♄17'23			1934 Feb 04 04:13	0°♄	

evening set	1934 Feb 05 19:28	1°♁17'32			1939 Jan 29 09:49	0°♁		
	1934 Mar 14 09:08	0°♁		desc. node	1939 Mar 19 15:17	29°♁03'42		
					1939 Mar 21 07:25	0°♁		
conjunction	1934 Apr 14 13:54	23°♁55'34	0°-27'-39		1939 May 25 00:19	0°♁		
minimum elong	1934 Apr 14 16:09	23°♁59'48	0°27'38	retrograde	1939 Jun 22 18:34	4°♁42'22		
	1934 Apr 22 15:40	0°♁			1939 Jul 21 19:31	30°♁		
asc. node	1934 May 28 00:25	25°♁56'50		opposition	1939 Jul 23 08:03	29°♁34'48	-6°-17'-55	
max. Earth dist.	1934 Jun 02 11:06	29°♁50'39	2.46054 AU	greatest brilliancy	1939 Jul 24 14:35	29°♁13'40	-2.8m	
	1934 Jun 02 16:21	0°♁		min. Earth dist.	1939 Jul 27 20:46	28°♁19'52	0.38789 AU	
morning rise	1934 Jun 17 00:15	10°♁07'43		direct	1939 Aug 23 23:58	23°♁55'06		
	1934 Jul 15 21:33	0°♁			1939 Sep 24 01:13	0°♁		
	1934 Aug 30 13:43	0°♁			1939 Nov 19 15:56	0°♁		
	1934 Oct 18 04:59	0°♁			1940 Jan 04 00:05	0°♁		
	1934 Dec 11 09:32	0°♁		asc. node	1940 Jan 17 21:03	9°♁26'27		
retrograde	1935 Feb 27 12:11	24°♁37'00			1940 Feb 17 01:54	0°♁		
opposition	1935 Apr 06 17:34	15°♁59'21	2°37'48		1940 Apr 01 18:41	0°♁		
greatest brilliancy	1935 Apr 07 11:16	15°♁42'20	-1.5m		1940 May 17 14:45	0°♁		
min. Earth dist.	1935 Apr 12 04:59	13°♁53'13	0.62102 AU		1940 Jul 03 10:32	0°♁		
direct	1935 May 17 21:37	6°♁03'08		evening set	1940 Jul 15 03:50	7°♁27'11		
desc. node	1935 Jun 14 17:00	10°♁26'24			1940 Aug 19 15:58	0°♁		
	1935 Jul 29 17:32	0°♁		max. Earth dist.	1940 Aug 26 06:42	4°♁12'23	2.67559 AU	
	1935 Sep 16 12:59	0°♁						
	1935 Oct 28 18:22	0°♁		conjunction	1940 Aug 30 08:30	6°♁48'03	1°05'51	
	1935 Dec 07 04:33	0°♁		minimum elong	1940 Aug 30 09:07	6°♁49'03	1°05'52	
	1936 Jan 14 13:59	0°♁			1940 Oct 05 14:21	0°♁		
	1936 Feb 22 04:09	0°♁		morning rise	1940 Oct 13 16:47	5°♁13'29		
	1936 Apr 01 21:30	0°♁			1940 Nov 20 17:16	0°♁		
asc. node	1936 Apr 13 23:57	8°♁53'48			1941 Jan 04 19:42	0°♁		
evening set	1936 Apr 14 02:51	8°♁59'06		desc. node	1941 Feb 03 14:26	20°♁10'12		
	1936 May 13 09:17	0°♁			1941 Feb 17 23:32	0°♁		
					1941 Apr 02 11:45	0°♁		
conjunction	1936 Jun 11 00:01	19°♁52'47	0°34'21		1941 May 16 05:05	0°♁		
minimum elong	1936 Jun 10 22:25	19°♁50'02	0°34'20		1941 Jul 02 05:17	0°♁		
	1936 Jun 25 21:53	0°♁		retrograde	1941 Sep 06 18:34	23°♁43'12		
max. Earth dist.	1936 Jul 08 17:15	8°♁34'12	2.58252 AU	min. Earth dist.	1941 Oct 03 07:26	19°♁04'11	0.41046 AU	
morning rise	1936 Aug 02 00:50	24°♁34'11		greatest brilliancy	1941 Oct 09 10:17	17°♁09'50	-2.6m	
	1936 Aug 10 09:43	0°♁		opposition	1941 Oct 10 12:47	16°♁49'03	-3°-22'-13	
	1936 Sep 26 14:51	0°♁		direct	1941 Nov 10 08:33	11°♁04'28		
	1936 Nov 14 14:52	0°♁		asc. node	1941 Dec 04 21:07	14°♁42'34		
	1937 Jan 05 20:39	0°♁			1942 Jan 11 22:20	0°♁		
	1937 Mar 13 03:16	0°♁			1942 Mar 07 08:04	0°♁		
retrograde	1937 Apr 14 14:42	5°♁32'01			1942 Apr 26 06:18	0°♁		
desc. node	1937 May 01 16:12	3°♁43'01			1942 Jun 14 03:55	0°♁		
	1937 May 14 22:52	30°♁			1942 Aug 01 08:27	0°♁		
opposition	1937 May 19 18:37	28°♁20'36	0°-53'-1	evening set	1942 Aug 21 10:07	12°♁41'09		
greatest brilliancy	1937 May 20 04:51	28°♁11'37	-2.0m		1942 Sep 17 10:10	0°♁		
min. Earth dist.	1937 May 28 03:32	25°♁24'43	0.50854 AU	max. Earth dist.	1942 Sep 18 17:45	0°♁51'07	2.64078 AU	
direct	1937 Jun 27 10:08	19°♁31'54						
	1937 Aug 08 22:14	0°♁		conjunction	1942 Oct 06 00:06	12°♁06'36	0°41'26	
	1937 Sep 30 09:08	0°♁		minimum elong	1942 Oct 06 01:14	12°♁08'27	0°41'26	
	1937 Nov 11 18:31	0°♁			1942 Nov 01 22:36	0°♁		
	1937 Dec 21 17:46	0°♁		morning rise	1942 Nov 20 14:32	12°♁38'54		
	1938 Jan 30 12:44	0°♁			1942 Dec 15 16:51	0°♁		
asc. node	1938 Mar 01 22:01	22°♁26'51		desc. node	1942 Dec 22 13:54	4°♁49'27		
	1938 Mar 12 07:48	0°♁			1943 Jan 26 19:10	0°♁		
	1938 Apr 23 18:39	0°♁			1943 Mar 08 12:42	0°♁		
evening set	1938 Jun 04 21:53	28°♁34'14			1943 Apr 17 10:25	0°♁		
	1938 Jun 07 01:28	0°♁			1943 May 27 09:25	0°♁		
	1938 Jul 22 22:26	0°♁			1943 Jul 07 23:05	0°♁		
					1943 Aug 23 23:58	0°♁		
conjunction	1938 Jul 24 19:08	1°♁12'05	1°05'12	asc. node	1943 Oct 22 18:55	22°♁01'16		
minimum elong	1938 Jul 24 18:19	1°♁10'46	1°05'12	retrograde	1943 Oct 28 05:16	22°♁13'56		
max. Earth dist.	1938 Aug 03 18:10	7°♁36'32	2.65618 AU	min. Earth dist.	1943 Nov 28 13:14	15°♁31'36	0.53945 AU	
	1938 Sep 07 20:22	0°♁		opposition	1943 Dec 05 18:31	12°♁45'25	2°05'03	
morning rise	1938 Sep 09 02:10	0°♁47'18		greatest brilliancy	1943 Dec 04 21:55	13°♁05'12	-1.9m	
	1938 Oct 25 06:20	0°♁		direct	1944 Jan 10 04:37	4°♁51'25		
	1938 Dec 11 23:25	0°♁			1944 Mar 28 09:54	0°♁		

	1944 May 22 14:16	0°♁		conjunction	1949 Mar 17 10:14	26°♁29'56	0°-51'-25
	1944 Jul 12 02:54	0°♁		minimum elong	1949 Mar 17 13:28	26°♁36'13	0°51'24
	1944 Aug 29 00:23	0°♁			1949 Mar 21 22:02	0°♁	
evening set	1944 Sep 27 13:39	19°♁18'35			1949 Apr 30 02:33	0°♁	
	1944 Oct 13 12:09	0°♁		max. Earth dist.	1949 May 07 01:22	5°♁11'57	2.40685 AU
max. Earth dist.	1944 Oct 15 14:26	1°♁25'14	2.55454 AU	morning rise	1949 May 24 21:02	18°♁20'00	
desc. node	1944 Nov 08 12:51	17°♁54'13			1949 Jun 10 00:57	0°♁	
				asc. node	1949 Jun 13 16:51	2°♁36'36	
conjunction	1944 Nov 14 18:27	22°♁16'29	0°-3'-45		1949 Jul 23 05:54	0°♁	
minimum elong	1944 Nov 14 18:18	22°♁16'14	0°03'47		1949 Sep 07 04:51	0°♁	
behind sun begin	1944 Nov 13 21:50	21°♁40'14			1949 Oct 27 00:58	0°♁	
behind sun end	1944 Nov 15 14:47	22°♁52'15			1949 Dec 26 05:23	0°♁	
	1944 Nov 25 16:11	0°♁		retrograde	1950 Feb 12 05:48	11°♁02'25	
morning rise	1945 Jan 05 07:38	29°♁37'53		opposition	1950 Mar 23 05:44	2°♁01'59	3°25'54
	1945 Jan 05 19:31	0°♁		greatest brilliancy	1950 Mar 23 21:25	1°♁46'40	-1.3m
	1945 Feb 14 09:57	0°♁		min. Earth dist.	1950 Mar 27 06:10	0°♁27'56	0.64972 AU
	1945 Mar 25 03:43	0°♁			1950 Mar 28 11:05	30°♁	
	1945 May 02 20:29	0°♁		direct	1950 May 03 15:51	22°♁00'21	
	1945 Jun 11 11:52	0°♁			1950 Jun 11 20:26	0°♁	
	1945 Jul 23 08:59	0°♁		desc. node	1950 Jul 01 08:48	8°♁11'52	
	1945 Sep 07 20:56	0°♁			1950 Aug 10 16:47	0°♁	
asc. node	1945 Sep 08 17:59	0°♁31'10			1950 Sep 25 19:48	0°♁	
	1945 Nov 11 21:04	0°♁			1950 Nov 06 06:40	0°♁	
retrograde	1945 Dec 04 22:49	3°♁13'47			1950 Dec 15 08:59	0°♁	
	1945 Dec 26 15:05	30°♁			1951 Jan 22 13:05	0°♁	
min. Earth dist.	1946 Jan 10 07:34	24°♁45'02	0.63934 AU		1951 Mar 01 22:03	0°♁	
greatest brilliancy	1946 Jan 13 05:59	23°♁34'37	-1.4m	evening set	1951 Mar 21 08:09	14°♁53'58	
opposition	1946 Jan 14 00:52	23°♁15'44	4°13'13		1951 Apr 10 09:37	0°♁	
direct	1946 Feb 21 21:12	14°♁06'27		asc. node	1951 May 01 15:27	15°♁37'52	
	1946 Apr 22 19:31	0°♁			1951 May 21 15:32	0°♁	
	1946 Jun 20 08:31	0°♁					
	1946 Aug 09 13:17	0°♁		conjunction	1951 May 22 13:22	0°♁38'42	0°13'12
	1946 Sep 24 16:35	0°♁		minimum elong	1951 May 22 12:31	0°♁37'12	0°13'12
desc. node	1946 Sep 26 11:24	1°♁12'17		behind sun begin	1951 May 21 22:41	0°♁12'41	
	1946 Nov 06 18:22	0°♁		behind sun end	1951 May 23 02:21	1°♁01'42	
evening set	1946 Nov 11 05:16	3°♁12'29		max. Earth dist.	1951 Jun 27 11:35	25°♁35'24	2.53983 AU
max. Earth dist.	1946 Nov 27 09:08	15°♁00'42	2.42952 AU		1951 Jul 03 23:42	0°♁	
	1946 Dec 17 10:56	0°♁		morning rise	1951 Jul 17 07:03	8°♁55'26	
					1951 Aug 18 10:55	0°♁	
conjunction	1947 Jan 06 07:15	15°♁08'01	0°-54'-26		1951 Oct 05 00:20	0°♁	
minimum elong	1947 Jan 06 05:07	15°♁03'54	0°54'27		1951 Nov 24 06:11	0°♁	
	1947 Jan 25 11:44	0°♁			1952 Jan 20 01:33	0°♁	
morning rise	1947 Mar 04 16:46	0°♁		retrograde	1952 Mar 25 11:07	18°♁28'31	
	1947 Mar 12 15:25	6°♁15'15		opposition	1952 May 01 01:31	10°♁37'24	0°46'08
	1947 Apr 11 23:03	0°♁		greatest brilliancy	1952 May 01 09:58	10°♁29'37	-1.8m
	1947 May 21 03:39	0°♁		min. Earth dist.	1952 May 08 13:26	7°♁52'06	0.55825 AU
	1947 Jul 01 03:34	0°♁		desc. node	1952 May 18 07:20	4°♁38'28	
asc. node	1947 Jul 27 18:11	18°♁31'22		direct	1952 Jun 10 02:45	1°♁09'55	
	1947 Aug 13 21:26	0°♁			1952 Aug 27 18:53	0°♁	
	1947 Oct 01 02:30	0°♁			1952 Oct 12 04:45	0°♁	
	1947 Dec 01 11:44	0°♁			1952 Nov 21 19:39	0°♁	
retrograde	1948 Jan 08 13:49	7°♁36'36			1952 Dec 30 21:35	0°♁	
	1948 Feb 12 10:28	30°♁			1953 Feb 08 01:07	0°♁	
opposition	1948 Feb 17 16:16	27°♁55'33	4°29'44	asc. node	1953 Mar 18 15:01	28°♁47'02	
greatest brilliancy	1948 Feb 17 15:58	27°♁55'51	-1.2m		1953 Mar 20 06:54	0°♁	
min. Earth dist.	1948 Feb 17 20:08	27°♁51'41	0.67758 AU		1953 May 01 06:08	0°♁	
direct	1948 Mar 29 12:33	18°♁06'13		evening set	1953 May 17 11:16	11°♁13'59	
	1948 May 18 20:53	0°♁			1953 Jun 14 03:49	0°♁	
	1948 Jul 17 05:25	0°♁					
desc. node	1948 Aug 13 10:05	16°♁24'39		conjunction	1953 Jul 08 21:00	16°♁22'03	0°57'10
	1948 Sep 03 13:58	0°♁		minimum elong	1953 Jul 08 19:38	16°♁19'50	0°57'10
	1948 Oct 17 05:43	0°♁		max. Earth dist.	1953 Jul 25 06:45	27°♁04'04	2.63373 AU
	1948 Nov 26 21:59	0°♁			1953 Jul 29 19:25	0°♁	
	1949 Jan 04 17:50	0°♁		morning rise	1953 Aug 25 20:40	17°♁22'10	
evening set	1949 Jan 08 21:04	3°♁14'48			1953 Sep 14 17:59	0°♁	
	1949 Feb 11 18:05	0°♁			1953 Nov 01 14:19	0°♁	
					1953 Dec 20 11:22	0°♁	

	1954 Feb 09 19:17	0°♁			1959 Feb 10 13:57	0°♁		
desc. node	1954 Apr 05 07:24	27°♁07'40			1959 Apr 10 09:46	0°♁		
	1954 Apr 12 16:28	0°♁			1959 Jun 01 02:26	0°♁		
retrograde	1954 May 23 12:47	8°♁31'55			1959 Jul 20 11:03	0°♁		
opposition	1954 Jun 24 17:21	2°♁38'28	-4°-15'-47		1959 Sep 05 22:46	0°♁		
greatest brilliancy	1954 Jun 26 07:12	2°♁09'06	-2.5m	evening set	1959 Sep 13 08:38	4°♁47'55		
min. Earth dist.	1954 Jul 02 07:55	0°♁17'30	0.42780 AU	max. Earth dist.	1959 Oct 04 22:08	18°♁57'39	2.59396 AU	
	1954 Jul 03 07:23	30°♁			1959 Oct 21 09:40	0°♁		
direct	1954 Jul 29 15:20	25°♁35'22						
	1954 Aug 24 13:22	0°♁		conjunction	1959 Oct 30 01:46	5°♁53'14	0°15'47	
	1954 Oct 21 12:03	0°♁		minimum elong	1959 Oct 30 02:21	5°♁54'14	0°15'46	
	1954 Dec 04 07:41	0°♁		behind sun begin	1959 Oct 29 22:04	5°♁46'55		
	1955 Jan 15 04:33	0°♁		behind sun end	1959 Oct 30 06:38	6°♁01'32		
asc. node	1955 Feb 03 13:04	13°♁49'56		desc. node	1959 Nov 26 04:00	24°♁38'40		
	1955 Feb 26 10:22	0°♁			1959 Dec 03 18:09	0°♁		
	1955 Apr 10 23:09	0°♁		morning rise	1959 Dec 17 12:21	9°♁49'00		
	1955 May 26 00:50	0°♁			1960 Jan 14 04:59	0°♁		
evening set	1955 Jun 30 21:28	23°♁15'46			1960 Feb 23 04:11	0°♁		
	1955 Jul 11 09:22	0°♁			1960 Apr 02 06:24	0°♁		
					1960 May 11 07:19	0°♁		
conjunction	1955 Aug 17 02:46	23°♁26'16	1°08'48		1960 Jun 20 09:05	0°♁		
minimum elong	1955 Aug 17 02:53	23°♁26'27	1°08'48		1960 Aug 02 04:32	0°♁		
max. Earth dist.	1955 Aug 18 07:05	24°♁11'20	2.67465 AU		1960 Sep 21 04:06	0°♁		
	1955 Aug 27 10:13	0°♁		asc. node	1960 Sep 25 11:02	2°♁10'17		
morning rise	1955 Sep 30 20:17	21°♁55'40		retrograde	1960 Nov 20 17:04	18°♁39'14		
	1955 Oct 13 11:19	0°♁		min. Earth dist.	1960 Dec 25 05:40	10°♁48'15	0.60681 AU	
	1955 Nov 29 01:33	0°♁		greatest brilliancy	1960 Dec 29 10:57	9°♁07'48	-1.6m	
	1956 Jan 14 02:28	0°♁		opposition	1960 Dec 30 10:21	8°♁44'34	3°40'29	
desc. node	1956 Feb 21 06:41	25°♁02'34			1961 Feb 05 00:25	30°♁		
	1956 Feb 28 20:05	0°♁		direct	1961 Feb 06 02:51	29°♁59'33		
	1956 Apr 14 23:40	0°♁			1961 Feb 07 05:24	0°♁		
	1956 Jun 03 07:51	0°♁			1961 May 06 01:13	0°♁		
retrograde	1956 Aug 10 16:18	23°♁39'23			1961 Jun 28 23:47	0°♁		
min. Earth dist.	1956 Sep 07 04:48	19°♁10'18	0.37809 AU		1961 Aug 17 00:41	0°♁		
opposition	1956 Sep 10 21:58	18°♁08'42	-5°-55'-19		1961 Oct 01 20:02	0°♁		
greatest brilliancy	1956 Sep 10 02:54	18°♁21'53	-2.9m	desc. node	1961 Oct 13 02:57	7°♁41'35		
direct	1956 Oct 10 10:06	13°♁09'05		evening set	1961 Oct 23 14:15	14°♁56'08		
	1956 Dec 06 11:24	0°♁		max. Earth dist.	1961 Nov 07 04:13	25°♁11'38	2.48096 AU	
asc. node	1956 Dec 21 12:01	7°♁49'58			1961 Nov 13 21:50	0°♁		
	1957 Jan 28 14:19	0°♁						
	1957 Mar 17 21:34	0°♁		conjunction	1961 Dec 14 18:29	22°♁32'35	0°-36'-29	
	1957 May 04 15:22	0°♁		minimum elong	1961 Dec 14 16:45	22°♁29'22	0°36'29	
	1957 Jun 21 12:18	0°♁			1961 Dec 24 17:50	0°♁		
evening set	1957 Aug 07 03:16	29°♁18'37			1962 Feb 01 23:06	0°♁		
	1957 Aug 08 05:27	0°♁		morning rise	1962 Feb 11 21:55	7°♁44'35		
max. Earth dist.	1957 Sep 09 11:53	20°♁32'19	2.66074 AU		1962 Mar 12 07:58	0°♁		
					1962 Apr 19 16:58	0°♁		
conjunction	1957 Sep 21 14:29	28°♁19'46	0°53'36		1962 May 28 23:47	0°♁		
minimum elong	1957 Sep 21 15:34	28°♁21'32	0°53'36		1962 Jul 09 03:50	0°♁		
	1957 Sep 24 04:31	0°♁		asc. node	1962 Aug 13 09:19	24°♁04'25		
morning rise	1957 Nov 05 06:39	27°♁36'03			1962 Aug 22 11:37	0°♁		
	1957 Nov 08 21:04	0°♁			1962 Oct 11 23:54	0°♁		
	1957 Dec 23 01:29	0°♁		retrograde	1962 Dec 26 06:11	24°♁47'55		
desc. node	1958 Jan 08 04:54	11°♁13'09		min. Earth dist.	1963 Feb 03 03:18	15°♁29'42	0.67044 AU	
	1958 Feb 03 18:57	0°♁		opposition	1963 Feb 04 11:57	14°♁57'01	4°33'24	
	1958 Mar 17 07:11	0°♁		greatest brilliancy	1963 Feb 04 03:58	15°♁05'01	-1.3m	
	1958 Apr 27 02:31	0°♁		direct	1963 Mar 16 17:21	5°♁20'08		
	1958 Jun 07 06:21	0°♁			1963 Jun 03 06:30	0°♁		
	1958 Jul 21 07:03	0°♁			1963 Jul 27 04:14	0°♁		
retrograde	1958 Sep 21 05:26	2°♁32'08		desc. node	1963 Aug 31 01:15	21°♁53'01		
	1958 Oct 10 09:46	30°♁			1963 Sep 12 09:11	0°♁		
asc. node	1958 Nov 08 12:04	26°♁41'33			1963 Oct 25 17:31	0°♁		
min. Earth dist.	1958 Nov 08 13:10	26°♁40'34	0.48770 AU	evening set	1963 Dec 05 09:03	0°♁		
opposition	1958 Nov 16 14:32	23°♁44'11	0°26'09		1963 Dec 15 07:33	7°♁34'03		
greatest brilliancy	1958 Nov 16 09:01	23°♁49'13	-2.2m		1964 Jan 13 06:13	0°♁		
direct	1958 Dec 20 06:45	16°♁34'40		conjunction	1964 Feb 17 02:57	27°♁28'38	-1°-4'-4	

minimum elong	1964 Feb 17 03:57	27°≈30'35	1°04'05		1968 Dec 29 22:07	0°♄	
max. Earth dist.	1964 Feb 19 14:41	29°≈26'40	2.37046 AU		1969 Feb 25 06:21	0°♂	
	1964 Feb 20 07:33	0°♁		desc. node	1969 Apr 21 22:26	16°♂34'35	
	1964 Mar 29 11:24	0°♂		retrograde	1969 Apr 27 11:24	16°♂45'36	
morning rise	1964 Apr 27 22:42	22°♂41'35		opposition	1969 May 31 15:51	9°♂59'58	-2°-1'-6
	1964 May 07 14:41	0°♂		greatest brilliancy	1969 Jun 01 14:22	9°♂40'55	-2.2m
	1964 Jun 17 11:43	0°♂		min. Earth dist.	1969 Jun 09 04:09	7°♂07'28	0.47955 AU
asc. node	1964 Jun 30 09:11	9°♂08'02		direct	1969 Jul 08 06:07	1°♂41'55	
	1964 Jul 30 18:22	0°♁			1969 Sep 21 06:35	0°♁	
	1964 Sep 15 05:22	0°♂			1969 Nov 04 18:50	0°≈	
	1964 Nov 06 03:20	0°♁			1969 Dec 15 14:22	0°♁	
retrograde	1965 Jan 28 22:38	28°♁02'47			1970 Jan 24 21:29	0°♂	
opposition	1965 Mar 09 12:29	18°♁43'46	4°00'10	asc. node	1970 Feb 20 05:35	19°♂18'27	
greatest brilliancy	1965 Mar 09 23:08	18°♁33'15	-1.3m		1970 Mar 07 01:28	0°♂	
min. Earth dist.	1965 Mar 12 01:08	17°♁43'57	0.66848 AU		1970 Apr 18 18:59	0°♂	
direct	1965 Apr 19 21:56	8°♁43'12			1970 Jun 02 06:50	0°♁	
	1965 Jun 29 01:12	0°♁		evening set	1970 Jun 14 17:37	8°♁12'19	
desc. node	1965 Jul 18 00:27	10°♁02'17			1970 Jul 18 06:43	0°♂	
	1965 Aug 20 12:16	0°♄					
	1965 Oct 04 06:46	0°♂		conjunction	1970 Aug 02 12:01	9°♂46'31	1°07'46
	1965 Nov 14 07:19	0°♁		minimum elong	1970 Aug 02 11:33	9°♂45'47	1°07'46
	1965 Dec 23 05:36	0°≈		max. Earth dist.	1970 Aug 09 04:50	14°♂03'48	2.66511 AU
greatest brilliancy	1966 Jan 06 15:23	11°≈19'26	1.2m		1970 Sep 03 04:57	0°♁	
	1966 Jan 30 07:01	0°♁		morning rise	1970 Sep 17 02:08	8°♁49'14	
evening set	1966 Feb 21 22:39	17°♁49'58			1970 Oct 20 10:57	0°♁	
	1966 Mar 09 12:55	0°♂			1970 Dec 06 16:34	0°♄	
	1966 Apr 17 20:35	0°♂			1971 Jan 23 01:34	0°♂	
conjunction	1966 Apr 29 05:29	8°♂27'14	0°-12'-19	desc. node	1971 Mar 09 21:39	28°♂28'05	
minimum elong	1966 Apr 29 06:27	8°♂29'01	0°12'20		1971 Mar 12 10:11	0°♁	
behind sun begin	1966 Apr 28 13:15	7°♂57'15		retrograde	1971 Jul 11 06:30	21°≈57'26	
behind sun end	1966 Apr 29 23:40	9°♂00'45		opposition	1971 Aug 10 06:53	17°≈00'18	-6°-50'-15
asc. node	1966 May 18 07:56	22°♂24'08		greatest brilliancy	1971 Aug 10 21:39	16°≈50'31	-2.9m
	1966 May 28 22:07	0°♂		min. Earth dist.	1971 Aug 12 02:26	16°≈31'26	0.37570 AU
max. Earth dist.	1966 Jun 12 16:23	10°♂25'26	2.49033 AU	direct	1971 Sep 09 13:51	11°≈53'25	
morning rise	1966 Jun 28 16:13	21°♂30'38			1971 Nov 06 12:31	0°♁	
	1966 Jul 11 03:15	0°♁			1971 Dec 26 18:04	0°♂	
	1966 Aug 25 15:52	0°♂		asc. node	1972 Jan 08 05:14	8°♂03'45	
	1966 Oct 12 18:37	0°♁			1972 Feb 10 14:04	0°♂	
	1966 Dec 04 00:55	0°♁			1972 Mar 27 04:30	0°♂	
retrograde	1967 Feb 12 12:20	0°♄			1972 May 12 13:14	0°♁	
	1967 Mar 08 17:44	3°♄11'42			1972 Jun 28 16:09	0°♂	
	1967 Mar 31 06:10	30°♄		evening set	1972 Jul 23 15:28	15°♂48'27	
opposition	1967 Apr 15 11:30	24°♁48'38	2°02'20		1972 Aug 15 00:59	0°♁	
greatest brilliancy	1967 Apr 16 04:00	24°♁32'58	-1.6m	max. Earth dist.	1972 Aug 31 13:28	10°♁30'21	2.67262 AU
min. Earth dist.	1967 Apr 21 17:33	22°♁26'26	0.60121 AU				
direct	1967 May 26 09:29	14°♁59'05		conjunction	1972 Sep 07 10:57	14°♁54'24	1°02'22
desc. node	1967 Jun 04 23:54	15°♁33'37		minimum elong	1972 Sep 07 11:47	14°♁55'44	1°02'22
	1967 Jul 19 22:56	0°♄			1972 Sep 30 23:23	0°♁	
	1967 Sep 10 01:44	0°♂		morning rise	1972 Oct 21 18:44	13°♁29'24	
	1967 Oct 23 02:14	0°♁			1972 Nov 15 22:17	0°♄	
	1967 Dec 01 20:12	0°≈			1972 Dec 30 16:12	0°♂	
	1968 Jan 09 09:49	0°♁		desc. node	1973 Jan 24 20:40	17°♂15'00	
	1968 Feb 17 03:18	0°♂			1973 Feb 12 05:50	0°♁	
	1968 Mar 27 23:43	0°♂			1973 Mar 26 20:59	0°≈	
asc. node	1968 Apr 04 05:55	5°♂20'10			1973 May 08 04:09	0°♁	
evening set	1968 Apr 26 23:05	21°♂45'15			1973 Jun 20 20:53	0°♂	
	1968 May 08 14:14	0°♂			1973 Aug 12 14:56	0°♂	
conjunction	1968 Jun 21 15:47	0°♁18'03	0°44'14	retrograde	1973 Sep 19 23:19	9°♂16'18	
minimum elong	1968 Jun 21 14:08	0°♁15'16	0°44'13	min. Earth dist.	1973 Oct 17 04:05	4°♂14'30	0.43603 AU
	1968 Jun 21 05:03	0°♁		greatest brilliancy	1973 Oct 24 09:15	1°♂49'52	-2.5m
max. Earth dist.	1968 Jul 15 03:27	15°♁55'16	2.60321 AU	opposition	1973 Oct 25 03:27	1°♂34'33	-1°-50'-18
	1968 Aug 05 17:07	0°♂			1973 Oct 29 22:56	30°♄	
morning rise	1968 Aug 11 00:10	3°♂25'12		asc. node	1973 Nov 25 03:55	25°♂18'33	
	1968 Sep 21 18:39	0°♁		direct	1973 Nov 26 00:06	25°♂18'16	
	1968 Nov 09 06:09	0°♁			1973 Dec 24 08:09	0°♂	
					1974 Feb 27 10:11	0°♂	

	1974 Apr 20 08:18	0°☉		conjunction	1979 Jan 20 12:18	29°☾50'34	-1°-1'-29
	1974 Jun 09 00:54	0°♁		minimum elong	1979 Jan 20 10:41	29°☾47'26	1°01'30
	1974 Jul 27 14:04	0°♃			1979 Jan 20 17:07	0°♁	
evening set	1974 Aug 29 16:43	20°♃56'07			1979 Feb 27 20:25	0°♃	
	1974 Sep 12 19:08	0°♁		morning rise	1979 Mar 29 22:28	23°♃40'04	
max. Earth dist.	1974 Sep 24 11:56	7°♁36'05	2.62622 AU		1979 Apr 07 01:08	0°♃	
					1979 May 16 04:25	0°♃	
conjunction	1974 Oct 14 12:56	20°♁47'58	0°32'50		1979 Jun 26 01:55	0°♃	
minimum elong	1974 Oct 14 13:57	20°♁49'38	0°32'50	asc. node	1979 Jul 18 00:28	15°♃23'57	
	1974 Oct 28 07:05	0°♃			1979 Aug 08 13:28	0°☉	
morning rise	1974 Nov 29 22:20	22°♃19'16			1979 Sep 24 21:21	0°♁	
	1974 Dec 10 22:05	0°♃			1979 Nov 19 21:36	0°♃	
desc. node	1974 Dec 12 19:19	1°♃19'31		retrograde	1980 Jan 16 06:18	15°♃20'48	
	1975 Jan 21 18:49	0°☾		opposition	1980 Feb 25 05:43	5°♃46'43	4°22'05
	1975 Mar 03 05:32	0°♁		greatest brilliancy	1980 Feb 25 09:35	5°♃42'52	-1.2m
	1975 Apr 11 19:15	0°♃		min. Earth dist.	1980 Feb 26 06:00	5°♃22'36	0.67731 AU
	1975 May 21 08:14	0°♃			1980 Mar 11 20:46	30°♃	
	1975 Jul 01 03:53	0°♃		direct	1980 Apr 06 08:27	25°♃52'14	
	1975 Aug 14 20:47	0°♃			1980 May 04 02:26	0°♃	
asc. node	1975 Oct 13 02:43	28°♃50'45			1980 Jul 10 17:59	0°♁	
	1975 Oct 17 08:44	0°☉		desc. node	1980 Aug 03 16:21	13°♁56'23	
retrograde	1975 Nov 06 12:01	2°☉39'53			1980 Aug 29 05:50	0°♃	
	1975 Nov 25 18:30	30°♃			1980 Oct 12 06:27	0°♃	
min. Earth dist.	1975 Dec 09 00:03	25°♃32'02	0.56548 AU		1980 Nov 22 01:42	0°☾	
opposition	1975 Dec 15 13:58	22°♃58'12	2°47'32		1980 Dec 30 22:30	0°♁	
greatest brilliancy	1975 Dec 14 14:09	23°♃21'25	-1.8m	evening set	1981 Jan 24 09:12	19°♁16'00	
direct	1976 Jan 20 21:27	14°♃43'52			1981 Feb 06 22:48	0°♃	
	1976 Mar 18 13:15	0°☉			1981 Mar 17 02:40	0°♃	
	1976 May 16 11:10	0°♁					
	1976 Jul 06 23:27	0°♃		conjunction	1981 Apr 02 14:13	12°♃44'49	0°-38'-43
	1976 Aug 24 05:55	0°♁		minimum elong	1981 Apr 02 17:14	12°♃50'36	0°38'42
evening set	1976 Oct 06 16:26	28°♁32'15			1981 Apr 25 07:17	0°♃	
	1976 Oct 08 20:23	0°♃		max. Earth dist.	1981 May 23 23:20	21°♃10'18	2.43616 AU
max. Earth dist.	1976 Oct 23 00:37	9°♃40'42	2.52957 AU	asc. node	1981 Jun 03 23:46	29°♃06'55	
desc. node	1976 Oct 29 18:37	14°♃20'57			1981 Jun 05 05:26	0°♃	
	1976 Nov 20 23:53	0°♃		morning rise	1981 Jun 07 10:19	1°♃34'22	
					1981 Jul 18 08:54	0°☉	
conjunction	1976 Nov 25 01:20	2°♃54'24	0°-15'-44		1981 Sep 02 01:52	0°♁	
minimum elong	1976 Nov 25 00:36	2°♃53'07	0°15'45		1981 Oct 21 01:56	0°♃	
behind sun begin	1976 Nov 24 19:16	2°♃43'32			1981 Dec 16 00:14	0°♁	
behind sun end	1976 Nov 25 05:57	3°♃02'41		retrograde	1982 Feb 20 19:13	19°♁10'48	
	1977 Jan 01 00:42	0°☾		opposition	1982 Mar 31 10:13	10°♁22'19	2°59'31
morning rise	1977 Jan 17 22:07	12°☾43'24		greatest brilliancy	1982 Apr 01 03:22	10°♁05'43	-1.4m
	1977 Feb 09 11:57	0°♁		min. Earth dist.	1982 Apr 05 06:30	8°♁29'56	0.63512 AU
	1977 Mar 20 02:19	0°♃		direct	1982 May 11 18:35	0°♁22'47	
	1977 Apr 27 15:46	0°♃		desc. node	1982 Jun 21 14:53	9°♁07'22	
	1977 Jun 06 03:00	0°♃			1982 Aug 03 11:45	0°♃	
	1977 Jul 17 15:13	0°♃			1982 Sep 20 01:20	0°♃	
asc. node	1977 Aug 30 02:20	28°♃48'35			1982 Oct 31 23:05	0°☾	
	1977 Sep 01 00:20	0°☉			1982 Dec 10 06:17	0°♁	
	1977 Oct 26 18:56	0°♁			1983 Jan 17 13:10	0°♃	
retrograde	1977 Dec 12 19:12	11°♁33'40			1983 Feb 25 00:19	0°♃	
min. Earth dist.	1978 Jan 19 03:01	2°♁46'10	0.65319 AU	evening set	1983 Apr 04 16:29	29°♃19'54	
greatest brilliancy	1978 Jan 21 08:52	1°♁52'16	-1.3m		1983 Apr 05 14:03	0°♃	
opposition	1978 Jan 22 00:11	1°♁36'56	4°24'44	asc. node	1983 Apr 21 23:34	12°♃04'37	
	1978 Jan 26 01:59	30°♃			1983 May 16 21:43	0°♃	
direct	1978 Mar 02 09:56	22°☉16'34					
	1978 Apr 10 18:50	0°♁		conjunction	1983 Jun 03 11:21	12°♃19'26	0°25'58
	1978 Jun 14 02:38	0°♃		minimum elong	1983 Jun 03 09:56	12°♃16'59	0°25'57
	1978 Aug 04 09:07	0°♁			1983 Jun 29 06:54	0°☉	
desc. node	1978 Sep 16 17:56	27°♁54'28		max. Earth dist.	1983 Jul 04 18:44	3°☉41'56	2.56424 AU
	1978 Sep 19 20:57	0°♃		morning rise	1983 Jul 27 01:04	18°☉29'10	
	1978 Nov 02 01:20	0°♃			1983 Aug 13 16:54	0°♁	
evening set	1978 Nov 22 17:54	15°♃03'44			1983 Sep 30 00:12	0°♃	
	1978 Dec 12 17:39	0°☾			1983 Nov 18 10:26	0°♁	
max. Earth dist.	1978 Dec 13 14:19	0°☾39'04	2.40191 AU		1984 Jan 11 03:20	0°♃	
				retrograde	1984 Apr 05 12:22	28°♃20'50	

desc. node	1984 May 08 14:02	21°♄50'02			1989 Aug 03 13:35	0°♆	
opposition	1984 May 11 08:52	20°♄50'37	0°-7'-49	evening set	1989 Aug 15 07:48	7°♆25'47	
greatest brilliancy	1983 Oct 15 03:04	9°♆20'24	-4.0m	max. Earth dist.	1989 Sep 14 21:00	26°♆56'39	2.65069 AU
min. Earth dist.	1984 May 19 10:38	17°♄56'54	0.53147 AU		1989 Sep 19 14:38	0°♄	
direct	1984 Jun 19 18:16	11°♄41'56					
	1984 Aug 17 19:50	0°♆		conjunction	1989 Sep 29 19:00	6°♄36'28	0°46'55
	1984 Oct 05 06:02	0°♄		minimum elong	1989 Sep 29 20:08	6°♄38'19	0°46'55
	1984 Nov 15 18:09	0°♄			1989 Nov 04 05:29	0°♄	
	1984 Dec 25 06:38	0°♆		morning rise	1989 Nov 13 21:44	6°♄30'15	
	1985 Feb 02 17:19	0°♆			1989 Dec 18 04:57	0°♆	
asc. node	1985 Mar 08 22:07	25°♆24'43		desc. node	1989 Dec 29 11:30	7°♆52'37	
	1985 Mar 15 05:06	0°♄			1990 Jan 29 14:10	0°♄	
	1985 Apr 26 09:13	0°♄			1990 Mar 11 15:54	0°♄	
evening set	1985 May 28 04:34	21°♄46'52			1990 Apr 20 22:09	0°♆	
	1985 Jun 09 10:40	0°♄			1990 May 31 07:11	0°♆	
					1990 Jul 12 14:44	0°♄	
conjunction	1985 Jul 18 02:41	25°♄25'41	1°02'24		1990 Aug 31 11:40	0°♄	
minimum elong	1985 Jul 18 01:38	25°♄23'58	1°02'23	retrograde	1990 Oct 20 19:30	14°♄33'47	
	1985 Jul 25 04:04	0°♄		asc. node	1990 Oct 29 18:44	13°♄58'09	
max. Earth dist.	1985 Jul 30 22:10	3°♄42'50	2.64713 AU	min. Earth dist.	1990 Nov 20 03:53	8°♄14'10	0.51691 AU
morning rise	1985 Sep 03 02:09	25°♄34'18		opposition	1990 Nov 27 20:33	5°♄20'31	1°27'35
	1985 Sep 10 01:31	0°♆		greatest brilliancy	1990 Nov 27 04:25	5°♄35'42	-2.0m
	1985 Oct 27 15:16	0°♄			1990 Dec 14 07:46	30°♄	
	1985 Dec 14 18:59	0°♄		direct	1991 Jan 01 12:49	27°♄45'11	
	1986 Feb 02 06:27	0°♆			1991 Jan 21 01:15	0°♄	
desc. node	1986 Mar 26 12:56	29°♆10'37			1991 Apr 03 00:49	0°♄	
	1986 Mar 28 03:47	0°♄			1991 May 26 12:19	0°♄	
retrograde	1986 Jun 08 23:25	23°♄06'44			1991 Jul 15 12:36	0°♆	
opposition	1986 Jul 10 05:28	17°♄40'50	-5°-30'-32		1991 Sep 01 06:38	0°♄	
greatest brilliancy	1986 Jul 11 18:57	17°♄13'29	-2.7m	evening set	1991 Sep 21 22:44	13°♄26'24	
min. Earth dist.	1986 Jul 16 10:53	15°♄52'33	0.40357 AU	max. Earth dist.	1991 Oct 11 09:52	26°♄22'20	2.57315 AU
direct	1986 Aug 12 07:46	11°♄25'00			1991 Oct 16 19:05	0°♄	
	1986 Oct 09 01:01	0°♄					
	1986 Nov 26 02:35	0°♆		conjunction	1991 Nov 08 09:17	15°♄27'59	0°04'48
	1987 Jan 08 12:20	0°♆		minimum elong	1991 Nov 08 09:27	15°♄28'17	0°04'48
asc. node	1987 Jan 24 20:38	11°♆25'10		behind sun begin	1991 Nov 07 13:46	14°♄54'10	
	1987 Feb 20 14:44	0°♄		behind sun end	1991 Nov 09 05:09	16°♄02'26	
	1987 Apr 05 16:37	0°♄		desc. node	1991 Nov 16 10:36	21°♄04'45	
	1987 May 21 03:01	0°♄			1991 Nov 29 02:19	0°♆	
	1987 Jul 06 16:46	0°♄		morning rise	1991 Dec 28 09:31	21°♆08'37	
evening set	1987 Jul 09 17:22	1°♄55'52			1992 Jan 09 09:47	0°♄	
	1987 Aug 22 19:51	0°♆			1992 Feb 18 04:38	0°♄	
max. Earth dist.	1987 Aug 23 12:36	0°♆26'37	2.67622 AU		1992 Mar 28 02:04	0°♆	
					1992 May 05 21:36	0°♆	
conjunction	1987 Aug 25 07:32	1°♆34'56	1°07'32		1992 Jun 14 15:56	0°♄	
minimum elong	1987 Aug 25 07:58	1°♆35'37	1°07'32		1992 Jul 26 18:59	0°♄	
morning rise	1987 Oct 08 18:43	29°♆58'49			1992 Sep 12 06:05	0°♄	
	1987 Oct 08 19:27	0°♄		asc. node	1992 Sep 15 17:17	1°♄57'36	
	1987 Nov 24 03:19	0°♄		retrograde	1992 Nov 28 23:31	27°♄37'21	
	1988 Jan 08 15:24	0°♆		min. Earth dist.	1993 Jan 03 13:27	19°♄24'47	0.62609 AU
desc. node	1988 Feb 11 11:58	22°♆38'40		opposition	1993 Jan 07 22:42	17°♄39'53	4°01'55
	1988 Feb 22 10:15	0°♄		greatest brilliancy	1993 Jan 07 01:25	18°♄01'07	-1.5m
	1988 Apr 06 21:44	0°♄		direct	1993 Feb 15 07:43	8°♄40'31	
	1988 May 22 07:42	0°♆			1993 Apr 27 23:40	0°♄	
	1988 Jul 13 20:00	0°♆			1993 Jun 23 07:42	0°♆	
retrograde	1988 Aug 26 14:40	11°♆27'50			1993 Aug 12 01:10	0°♄	
min. Earth dist.	1988 Sep 22 03:13	6°♆59'37	0.39314 AU	desc. node	1993 Sep 27 02:15	0°♄	
greatest brilliancy	1988 Sep 27 00:31	5°♆33'33	-2.8m	evening set	1993 Oct 03 09:00	4°♄15'13	
opposition	1988 Sep 28 03:31	5°♆13'38	-4°-33'-34		1993 Nov 02 22:02	25°♄29'49	
	1988 Oct 23 22:02	30°♄			1993 Nov 09 05:29	0°♆	
direct	1988 Oct 28 05:07	29°♆52'41		max. Earth dist.	1993 Nov 17 14:55	6°♆02'58	2.45265 AU
	1988 Nov 01 12:57	0°♆			1993 Dec 20 00:34	0°♄	
asc. node	1988 Dec 11 20:35	10°♆43'59					
	1989 Jan 19 08:11	0°♄		conjunction	1993 Dec 27 02:28	5°♄20'56	0°-47'-22
	1989 Mar 11 08:51	0°♄		minimum elong	1993 Dec 27 00:22	5°♄16'57	0°47'22
	1989 Apr 29 04:37	0°♄			1994 Jan 28 04:05	0°♄	
	1989 Jun 16 14:10	0°♄		morning rise	1994 Feb 27 16:06	23°♄52'32	

greatest brilliancy	1994 Mar 06 06:43	29° \approx 04'21	1.2m	retrograde	1999 Mar 18 13:41	12° \mathbb{M} 12'11	
	1994 Mar 07 11:01	0° \mathbb{H}		opposition	1999 Apr 24 17:38	4° \mathbb{M} 05'57	1°20'35
	1994 Apr 14 18:02	0° \mathbb{Y}		greatest brilliancy	1999 Apr 25 06:33	3° \mathbb{M} 53'52	-1.7m
	1994 May 23 22:37	0° \mathbb{B}		min. Earth dist.	1999 May 01 17:22	1° \mathbb{M} 29'32	0.57847 AU
	1994 Jul 03 22:30	0° \mathbb{I}			1999 May 05 21:32	30° \mathbb{R} \mathbb{L}	
asc. node	1994 Aug 03 17:36	21° \mathbb{I} 19'13		desc. node	1999 May 26 05:10	24° \mathbb{L} 59'35	
	1994 Aug 16 19:15	0° \mathbb{S}		direct	1999 Jun 04 06:10	24° \mathbb{L} 26'52	
	1994 Oct 04 15:48	0° \mathbb{Q}			1999 Jul 05 03:59	0° \mathbb{M}	
	1994 Dec 12 11:32	0° \mathbb{P}			1999 Sep 02 19:29	0° \mathbb{Z}	
retrograde	1995 Jan 02 21:27	2° \mathbb{P} 40'08			1999 Oct 17 01:35	0° \mathbb{C}	
	1995 Jan 22 23:48	30° \mathbb{R} \mathbb{Q}			1999 Nov 26 06:56	0° \approx	
opposition	1995 Feb 12 02:31	22° \mathbb{Q} 54'16	4°32'40		2000 Jan 04 03:01	0° \mathbb{H}	
greatest brilliancy	1995 Feb 11 22:50	22° \mathbb{Q} 57'58	-1.2m		2000 Feb 12 01:04	0° \mathbb{Y}	
min. Earth dist.	1995 Feb 11 14:15	23° \mathbb{Q} 06'32	0.67569 AU		2000 Mar 23 01:25	0° \mathbb{B}	
direct	1995 Mar 24 17:18	13° \mathbb{Q} 09'55		asc. node	2000 Mar 25 14:32	1° \mathbb{B} 52'10	
	1995 May 25 16:09	0° \mathbb{P}			2000 May 03 19:18	0° \mathbb{I}	
	1995 Jul 21 09:21	0° \mathbb{L}		evening set	2000 May 08 21:10	3° \mathbb{I} 33'22	
desc. node	1995 Aug 21 07:30	18° \mathbb{L} 58'52			2000 Jun 16 12:30	0° \mathbb{S}	
	1995 Sep 07 07:00	0° \mathbb{M}					
	1995 Oct 20 21:02	0° \mathbb{Z}		conjunction	2000 Jul 01 15:50	10° \mathbb{S} 05'47	0°52'20
	1995 Nov 30 13:57	0° \mathbb{C}		minimum elong	2000 Jul 01 14:18	10° \mathbb{S} 03'15	0°52'19
evening set	1995 Dec 29 08:46	22° \mathbb{C} 07'04		max. Earth dist.	2000 Jul 21 05:13	22° \mathbb{S} 57'12	2.62108 AU
	1996 Jan 08 11:02	0° \approx			2000 Aug 01 01:21	0° \mathbb{Q}	
	1996 Feb 15 11:50	0° \mathbb{H}		morning rise	2000 Aug 19 14:47	11° \mathbb{Q} 57'02	
					2000 Sep 17 00:19	0° \mathbb{P}	
conjunction	1996 Mar 04 14:02	14° \mathbb{H} 17'06	0°-58'-41		2000 Nov 04 02:00	0° \mathbb{L}	
minimum elong	1996 Mar 04 16:36	14° \mathbb{H} 22'11	0°58'41		2000 Dec 23 14:37	0° \mathbb{M}	
	1996 Mar 24 15:12	0° \mathbb{Y}			2001 Feb 14 20:06	0° \mathbb{Z}	
max. Earth dist.	1996 Apr 17 18:31	18° \mathbb{Y} 38'04	2.38534 AU	desc. node	2001 Apr 12 04:42	24° \mathbb{Z} 22'07	
	1996 May 02 18:16	0° \mathbb{B}		retrograde	2001 May 11 16:08	29° \mathbb{Z} 02'57	
morning rise	1996 May 13 14:54	8° \mathbb{B} 07'11		opposition	2001 Jun 13 17:46	22° \mathbb{Z} 45'46	-3°-16'-17
	1996 Jun 12 14:42	0° \mathbb{I}		greatest brilliancy	2001 Jun 15 02:51	22° \mathbb{Z} 18'56	-2.4m
asc. node	1996 Jun 20 16:39	5° \mathbb{I} 45'14		min. Earth dist.	2001 Jun 21 22:51	20° \mathbb{Z} 06'36	0.45017 AU
	1996 Jul 25 18:32	0° \mathbb{S}		direct	2001 Jul 19 22:45	15° \mathbb{Z} 06'29	
	1996 Sep 09 20:02	0° \mathbb{Q}			2001 Sep 08 17:51	0° \mathbb{C}	
	1996 Oct 30 07:13	0° \mathbb{P}			2001 Oct 27 17:19	0° \approx	
	1997 Jan 03 08:10	0° \mathbb{L}			2001 Dec 08 21:52	0° \mathbb{H}	
retrograde	1997 Feb 06 00:37	5° \mathbb{L} 55'22			2002 Jan 18 22:53	0° \mathbb{Y}	
	1997 Mar 08 19:50	30° \mathbb{R} \mathbb{P}		asc. node	2002 Feb 10 13:06	16° \mathbb{Y} 21'58	
opposition	1997 Mar 17 07:55	26° \mathbb{P} 46'09	3°41'30		2002 Mar 01 15:05	0° \mathbb{B}	
greatest brilliancy	1997 Mar 17 21:34	26° \mathbb{P} 32'45	-1.3m		2002 Apr 13 17:36	0° \mathbb{I}	
min. Earth dist.	1997 Mar 20 16:45	25° \mathbb{P} 26'58	0.65939 AU		2002 May 28 11:43	0° \mathbb{S}	
direct	1997 Apr 27 19:09	16° \mathbb{P} 44'18		evening set	2002 Jun 24 02:29	17° \mathbb{S} 23'24	
	1997 Jun 19 08:30	0° \mathbb{L}			2002 Jul 13 15:23	0° \mathbb{Q}	
desc. node	1997 Jul 08 06:33	8° \mathbb{L} 59'01					
	1997 Aug 14 08:42	0° \mathbb{M}		conjunction	2002 Aug 10 22:17	18° \mathbb{Q} 06'09	1°08'51
	1997 Sep 28 22:22	0° \mathbb{Z}		minimum elong	2002 Aug 10 22:10	18° \mathbb{Q} 05'59	1°08'51
	1997 Nov 09 05:33	0° \mathbb{C}		max. Earth dist.	2002 Aug 14 11:48	20° \mathbb{Q} 22'29	2.67143 AU
	1997 Dec 18 06:37	0° \approx			2002 Aug 29 14:38	0° \mathbb{P}	
	1998 Jan 25 09:26	0° \mathbb{H}		morning rise	2002 Sep 24 23:27	16° \mathbb{P} 46'31	
	1998 Mar 04 16:18	0° \mathbb{Y}			2002 Oct 15 17:38	0° \mathbb{L}	
evening set	1998 Mar 09 15:25	3° \mathbb{Y} 50'29			2002 Dec 01 14:26	0° \mathbb{M}	
	1998 Apr 13 01:04	0° \mathbb{B}			2003 Jan 17 04:22	0° \mathbb{Z}	
asc. node	1998 May 08 14:53	18° \mathbb{B} 50'07		desc. node	2003 Feb 28 04:21	26° \mathbb{Z} 59'46	
					2003 Mar 04 21:17	0° \mathbb{C}	
conjunction	1998 May 12 19:45	21° \mathbb{B} 52'33	0°02'44		2003 Apr 21 23:48	0° \approx	
minimum elong	1998 May 12 19:35	21° \mathbb{B} 52'15	0°02'44		2003 Jun 17 02:25	0° \mathbb{H}	
behind sun begin	1998 May 11 18:19	21° \mathbb{B} 06'40		retrograde	2003 Jul 29 07:36	10° \mathbb{H} 08'02	
behind sun end	1998 May 13 20:50	22° \mathbb{B} 37'47		min. Earth dist.	2003 Aug 27 09:46	5° \mathbb{H} 22'46	0.37272 AU
	1998 May 24 03:42	0° \mathbb{I}		opposition	2003 Aug 28 17:59	5° \mathbb{H} 01'14	-6°-37'-3
max. Earth dist.	1998 Jun 21 12:40	19° \mathbb{I} 51'54	2.51843 AU	greatest brilliancy	2003 Aug 28 12:33	5° \mathbb{H} 04'51	-2.9m
	1998 Jul 06 09:00	0° \mathbb{S}		direct	2003 Sep 27 07:52	0° \mathbb{H} 07'07	
morning rise	1998 Jul 09 13:12	2° \mathbb{S} 08'40			2003 Dec 16 13:24	0° \mathbb{Y}	
	1998 Aug 20 19:16	0° \mathbb{Q}		asc. node	2003 Dec 29 11:21	7° \mathbb{Y} 38'17	
	1998 Oct 07 12:28	0° \mathbb{P}			2004 Feb 03 10:04	0° \mathbb{B}	
	1998 Nov 27 10:10	0° \mathbb{L}			2004 Mar 21 07:39	0° \mathbb{I}	
	1999 Jan 26 11:59	0° \mathbb{M}			2004 May 07 08:46	0° \mathbb{S}	

	2004 Jun 23 20:50	0°♁			2009 Apr 22 13:44	0°♃		
evening set	2004 Jul 31 23:42	24°♁01'47			2009 May 31 21:18	0°♄		
	2004 Aug 10 10:14	0°♅			2009 Jul 12 02:56	0°♆		
max. Earth dist.	2004 Sep 05 19:18	16°♅46'42	2.66717 AU	asc. node	2009 Aug 20 09:14	26°♆34'37		
					2009 Aug 25 17:15	0°♇		
conjunction	2004 Sep 15 12:55	23°♅00'55	0°57'41		2009 Oct 16 15:32	0°♁		
minimum elong	2004 Sep 15 13:55	23°♅02'32	0°57'40	retrograde	2009 Dec 20 13:26	19°♁41'43		
	2004 Sep 26 09:15	0°♂		min. Earth dist.	2010 Jan 27 18:56	10°♁36'36	0.66398 AU	
morning rise	2004 Oct 29 23:42	21°♂54'33		opposition	2010 Jan 29 19:43	9°♁47'48	4°31'29	
	2004 Nov 11 05:11	0°♆		greatest brilliancy	2010 Jan 29 08:25	9°♁59'07	-1.3m	
	2004 Dec 25 16:04	0°♇		direct	2010 Mar 10 17:09	0°♁17'41		
desc. node	2005 Jan 15 02:53	14°♇07'27			2010 Jun 07 06:11	0°♅		
	2005 Feb 06 18:32	0°♄			2010 Jul 29 23:46	0°♂		
	2005 Mar 20 18:02	0°♃		desc. node	2010 Sep 06 23:10	24°♂42'43		
	2005 May 01 02:58	0°♂			2010 Sep 14 22:38	0°♆		
	2005 Jun 12 02:30	0°♃			2010 Oct 28 06:48	0°♇		
	2005 Jul 28 05:12	0°♄		evening set	2010 Dec 05 03:05	27°♇50'17		
retrograde	2005 Oct 01 22:04	23°♄22'20			2010 Dec 07 23:49	0°♄		
min. Earth dist.	2005 Oct 30 03:20	17°♄54'05	0.46405 AU	max. Earth dist.	2011 Jan 07 22:20	23°♄44'59	2.37934 AU	
opposition	2005 Nov 07 07:57	15°♄00'37	0°-27'-36		2011 Jan 15 22:41	0°♃		
greatest brilliancy	2005 Nov 07 02:42	15°♄05'16	-2.3m					
asc. node	2005 Nov 15 11:20	12°♄17'17		conjunction	2011 Feb 04 16:40	15°♃30'44	-1°-4'-44	
direct	2005 Dec 10 04:04	8°♄14'08		minimum elong	2011 Feb 04 16:20	15°♃30'05	1°04'46	
	2006 Feb 17 22:44	0°♆			2011 Feb 23 01:06	0°♂		
	2006 Apr 14 00:59	0°♇			2011 Apr 02 04:51	0°♃		
	2006 Jun 03 18:43	0°♁		morning rise	2011 Apr 16 01:09	10°♃44'29		
	2006 Jul 22 18:53	0°♅			2011 May 11 07:04	0°♄		
evening set	2006 Sep 07 00:56	29°♅15'53			2011 Jun 21 02:50	0°♆		
	2006 Sep 08 04:18	0°♂		asc. node	2011 Jul 08 08:48	12°♆11'36		
max. Earth dist.	2006 Sep 30 09:18	14°♂28'30	2.60940 AU		2011 Aug 03 09:22	0°♇		
					2011 Sep 19 01:51	0°♁		
conjunction	2006 Oct 23 06:46	29°♂43'23	0°23'17		2011 Nov 11 04:15	0°♅		
minimum elong	2006 Oct 23 07:34	29°♂44'44	0°23'17	retrograde	2012 Jan 24 00:54	23°♅05'34		
	2006 Oct 23 16:38	0°♆		opposition	2012 Mar 03 20:10	13°♅39'25	4°10'34	
desc. node	2006 Dec 03 01:46	27°♆47'40		greatest brilliancy	2012 Mar 04 03:59	13°♅31'42	-1.2m	
	2006 Dec 06 04:58	0°♇		min. Earth dist.	2012 Mar 05 16:55	12°♅55'10	0.67368 AU	
morning rise	2006 Dec 09 16:40	2°♇27'47		direct	2012 Apr 14 03:53	3°♅40'56		
	2007 Jan 16 20:54	0°♄			2012 Jul 03 12:32	0°♂		
	2007 Feb 26 01:32	0°♃		desc. node	2012 Jul 24 22:03	11°♂51'12		
	2007 Apr 06 08:49	0°♂			2012 Aug 23 15:24	0°♆		
	2007 May 15 14:06	0°♃			2012 Oct 07 03:21	0°♇		
	2007 Jun 24 21:27	0°♄			2012 Nov 17 02:36	0°♄		
	2007 Aug 07 06:01	0°♆			2012 Dec 26 00:49	0°♃		
	2007 Sep 28 23:55	0°♇			2013 Feb 02 01:54	0°♂		
asc. node	2007 Oct 03 10:46	1°♇58'39		evening set	2013 Feb 09 11:08	5°♂50'03		
retrograde	2007 Nov 15 08:24	12°♇27'03		greatest brilliancy	2013 Feb 23 06:16	16°♂42'09	1.2m	
min. Earth dist.	2007 Dec 18 23:41	4°♇54'52	0.58934 AU		2013 Mar 12 06:26	0°♃		
opposition	2007 Dec 24 19:47	2°♇36'56	3°21'16					
greatest brilliancy	2007 Dec 23 19:23	3°♇00'59	-1.6m	conjunction	2013 Apr 18 00:20	28°♃08'20	0°-23'-55	
	2007 Dec 31 16:00	30°♆		minimum elong	2013 Apr 18 02:17	28°♃12'00	0°23'54	
direct	2008 Jan 30 22:33	24°♆04'40			2013 Apr 20 11:48	0°♄		
	2008 Mar 04 10:01	0°♇		asc. node	2013 May 25 07:51	25°♄36'47		
	2008 May 09 20:20	0°♁			2013 May 31 10:39	0°♆		
	2008 Jul 01 16:21	0°♅		max. Earth dist.	2013 Jun 04 22:42	3°♆12'31	2.46650 AU	
	2008 Aug 19 10:03	0°♂		morning rise	2013 Jun 19 20:20	13°♆42'03		
	2008 Oct 04 04:34	0°♆			2013 Jul 13 13:22	0°♇		
evening set	2008 Oct 16 03:19	8°♆08'05			2013 Aug 28 02:05	0°♁		
desc. node	2008 Oct 20 00:45	10°♆48'46			2013 Oct 15 11:05	0°♅		
max. Earth dist.	2008 Oct 31 03:43	18°♆32'36	2.50336 AU		2013 Dec 07 20:41	0°♂		
	2008 Nov 16 08:27	0°♇		retrograde	2014 Mar 01 16:24	27°♂31'58		
				opposition	2014 Apr 08 21:04	18°♂56'50	2°28'09	
conjunction	2008 Dec 05 22:04	14°♇09'18	0°-27'-45	greatest brilliancy	2014 Apr 09 14:22	18°♂40'15	-1.5m	
minimum elong	2008 Dec 05 20:45	14°♇06'54	0°27'45	min. Earth dist.	2014 Apr 14 12:48	16°♂47'01	0.61757 AU	
	2008 Dec 27 07:30	0°♄		direct	2014 May 20 01:31	9°♂01'31		
morning rise	2009 Jan 31 12:21	26°♄47'41		desc. node	2014 Jun 11 21:44	12°♂04'56		
	2009 Feb 04 15:55	0°♃			2014 Jul 26 02:25	0°♆		
	2009 Mar 15 03:20	0°♂			2014 Sep 13 21:57	0°♇		

	2014 Oct 26 10:43	0°☾		conjunction	2019 Sep 02 10:42	9°♊41'11"	1°04'57"
	2014 Dec 04 23:57	0°♁		minimum elong	2019 Sep 02 11:24	9°♊42'17"	1°04'57"
	2015 Jan 12 10:20	0°♃			2019 Oct 04 04:22	0°♌	
	2015 Feb 20 00:11	0°♄		morning rise	2019 Oct 16 18:35	8°♌07'25"	
	2015 Mar 31 16:26	0°♅			2019 Nov 19 07:40	0°♍	
asc. node	2015 Apr 12 05:41	8°♃30'26"			2020 Jan 03 09:37	0°♎	
evening set	2015 Apr 18 05:53	12°♃53'23"		desc. node	2020 Feb 01 18:23	19°♎55'03"	
	2015 May 12 02:40	0°♆			2020 Feb 16 11:33	0°♏	
					2020 Mar 30 19:43	0°♐	
conjunction	2015 Jun 14 15:56	23°♆17'12"	0°37'09"		2020 May 13 04:17	0°♑	
minimum elong	2015 Jun 14 14:17	23°♆14'23"	0°37'08"		2020 Jun 28 01:45	0°♒	
	2015 Jun 24 13:33	0°♋		retrograde	2020 Sep 09 22:22	28°♒08'30"	
max. Earth dist.	2015 Jul 11 12:19	11°♋20'19"	2.58688 AU	min. Earth dist.	2020 Oct 06 14:13	23°♒25'07"	0.41491 AU
morning rise	2015 Aug 05 07:47	27°♋37'39"		opposition	2020 Oct 13 23:26	21°♒04'41"	-2°-59'-44"
	2015 Aug 08 23:32	0°♌		greatest brilliancy	2020 Oct 12 22:34	21°♒24'32"	-2.6m
	2015 Sep 25 02:18	0°♍		direct	2020 Nov 14 00:36	15°♒14'00"	
	2015 Nov 12 21:41	0°♎		asc. node	2020 Dec 02 03:33	17°♒17'42"	
	2016 Jan 03 14:32	0°♏			2021 Jan 06 22:27	0°♓	
	2016 Mar 06 02:29	0°♑			2021 Mar 04 03:30	0°♈	
retrograde	2016 Apr 17 12:14	8°♑54'02"			2021 Apr 23 11:49	0°♉	
desc. node	2016 Apr 28 20:16	8°♑06'00"			2021 Jun 11 13:34	0°♊	
opposition	2016 May 22 11:17	1°♑47'23"	-1°-9'-33"		2021 Jul 29 20:32	0°♋	
greatest brilliancy	2016 May 23 00:39	1°♑35'43"	-2.1m	evening set	2021 Aug 23 13:31	15°♋36'34"	
	2016 May 27 13:51	30°♌			2021 Sep 15 00:14	0°♌	
min. Earth dist.	2016 May 30 21:29	28°♌51'16"	0.50322 AU	max. Earth dist.	2021 Sep 20 11:34	3°♌32'33"	2.63814 AU
direct	2016 Jun 29 23:38	23°♌03'28"					
	2016 Aug 02 17:49	0°♍		conjunction	2021 Oct 08 04:01	15°♌05'50"	0°39'06"
	2016 Sep 27 08:07	0°♎		minimum elong	2021 Oct 08 05:06	15°♌07'38"	0°39'05"
	2016 Nov 09 05:51	0°♏			2021 Oct 30 14:21	0°♍	
	2016 Dec 19 09:23	0°♐		morning rise	2021 Nov 22 21:33	15°♍48'06"	
	2017 Jan 28 05:39	0°♑			2021 Dec 13 09:53	0°♎	
asc. node	2017 Feb 27 05:16	22°♑09'15"		desc. node	2021 Dec 19 17:03	4°♎24'46"	
	2017 Mar 10 00:34	0°♒			2022 Jan 24 12:53	0°♏	
	2017 Apr 21 10:32	0°♓			2022 Mar 06 06:23	0°♐	
	2017 Jun 04 16:16	0°♈			2022 Apr 15 03:06	0°♑	
evening set	2017 Jun 07 09:44	1°♈48'43"			2022 May 24 23:17	0°♒	
	2017 Jul 20 12:20	0°♉			2022 Jul 05 06:04	0°♓	
					2022 Aug 20 07:56	0°♈	
conjunction	2017 Jul 27 00:57	4°♉12'29"	1°06'04"	asc. node	2022 Oct 20 02:15	24°♈51'05"	
minimum elong	2017 Jul 27 00:15	4°♉11'21"	1°06'04"	retrograde	2022 Oct 30 13:26	25°♈36'50"	
max. Earth dist.	2017 Aug 05 10:39	10°♉14'57"	2.65816 AU	min. Earth dist.	2022 Dec 01 02:11	18°♈50'27"	0.54447 AU
	2017 Sep 05 09:35	0°♊		greatest brilliancy	2022 Dec 07 07:43	16°♈26'54"	-1.9m
morning rise	2017 Sep 11 04:07	3°♊39'56"		opposition	2022 Dec 08 05:42	16°♈05'47"	2°17'42"
	2017 Oct 22 18:29	0°♋		direct	2023 Jan 12 20:56	8°♈07'45"	
	2017 Dec 09 08:59	0°♌			2023 Mar 25 11:45	0°♉	
	2018 Jan 26 12:56	0°♍			2023 May 20 15:31	0°♊	
desc. node	2018 Mar 16 19:03	29°♍28'59"			2023 Jul 10 11:40	0°♋	
	2018 Mar 17 16:40	0°♎			2023 Aug 27 13:20	0°♌	
	2018 May 16 04:55	0°♏		evening set	2023 Sep 30 19:54	22°♌23'27"	
retrograde	2018 Jun 26 21:04	9°♏13'05"			2023 Oct 12 04:04	0°♍	
opposition	2018 Jul 27 05:13	4°♏08'47"	-6°-28'-20"	max. Earth dist.	2023 Oct 18 09:13	4°♍12'54"	2.54978 AU
greatest brilliancy	2018 Jul 28 09:41	3°♏49'20"	-2.8m	desc. node	2023 Nov 06 16:02	17°♍29'38"	
min. Earth dist.	2018 Jul 31 07:45	3°♏01'38"	0.38497 AU				
	2018 Aug 13 02:14	30°♏		conjunction	2023 Nov 18 05:43	25°♍36'44"	0°-6'-56"
direct	2018 Aug 27 14:05	28°♏36'36"		minimum elong	2023 Nov 18 05:23	25°♍36'10"	0°06'57"
	2018 Sep 11 00:56	0°♐		behind sun begin	2023 Nov 17 10:07	25°♍02'09"	
	2018 Nov 15 22:21	0°♑		behind sun end	2023 Nov 19 00:40	26°♍10'13"	
	2019 Jan 01 02:20	0°♒			2023 Nov 24 10:15	0°♓	
asc. node	2019 Jan 15 04:48	9°♒30'59"			2024 Jan 04 14:58	0°♈	
	2019 Feb 14 10:51	0°♓		morning rise	2024 Jan 09 05:05	3°♈25'21"	
	2019 Mar 31 06:12	0°♈			2024 Feb 13 06:05	0°♉	
	2019 May 16 03:09	0°♉			2024 Mar 22 23:47	0°♊	
	2019 Jul 01 23:19	0°♊			2024 Apr 30 15:33	0°♋	
evening set	2019 Jul 18 08:26	10°♊24'26"			2024 Jun 09 04:35	0°♌	
	2019 Aug 18 05:18	0°♋			2024 Jul 20 20:43	0°♍	
max. Earth dist.	2019 Aug 28 19:21	6°♋43'52"	2.67533 AU		2024 Sep 04 19:46	0°♎	
				asc. node	2024 Sep 06 02:03	0°♏45'40"	

	2024 Nov 04 04:10	0°♁			2029 Nov 04 00:32	0°♁		
retrograde	2024 Dec 06 23:33	6°♁10'16			2029 Dec 13 05:25	0°♁		
	2025 Jan 06 10:44	30°♁♂			2030 Jan 20 10:27	0°♁		
min. Earth dist.	2025 Jan 12 13:32	27°♁37'40	0.64228 AU		2030 Feb 27 19:07	0°♁		
greatest brilliancy	2025 Jan 15 08:26	26°♁30'49	-1.4m	evening set	2030 Mar 24 16:01	19°♁03'11		
opposition	2025 Jan 16 02:38	26°♁12'37	4°17'15		2030 Apr 08 05:27	0°♁		
direct	2025 Feb 24 02:00	17°♁00'55		asc. node	2030 Apr 28 23:02	15°♁17'15		
	2025 Apr 18 04:21	0°♁			2030 May 19 09:28	0°♁		
	2025 Jun 17 08:35	0°♁						
	2025 Aug 06 23:23	0°♁		conjunction	2030 May 25 10:50	4°♁17'32	0°16'38	
	2025 Sep 22 07:54	0°♁		minimum elong	2030 May 25 09:48	4°♁15'43	0°16'36	
desc. node	2025 Sep 23 15:20	0°♁52'50		max. Earth dist.	2030 Jun 29 09:12	28°♁28'17	2.54452 AU	
	2025 Nov 04 13:01	0°♁			2030 Jul 01 15:19	0°♁		
evening set	2025 Nov 13 20:53	6°♁43'28		morning rise	2030 Jul 19 18:13	12°♁08'57		
max. Earth dist.	2025 Nov 30 10:09	18°♁52'01	2.42388 AU		2030 Aug 15 23:56	0°♁		
	2025 Dec 15 07:34	0°♁			2030 Oct 02 09:42	0°♁		
					2030 Nov 21 07:54	0°♁		
conjunction	2026 Jan 09 11:41	19°♁12'56	0°-56'-28		2031 Jan 15 22:48	0°♁		
minimum elong	2026 Jan 09 09:38	19°♁08'59	0°56'28	retrograde	2031 Mar 29 00:34	21°♁38'10		
	2026 Jan 23 09:17	0°♁		opposition	2031 May 04 12:03	13°♁50'54	0°32'19	
	2026 Mar 02 14:16	0°♁		greatest brilliancy	2031 May 04 18:13	13°♁45'16	-1.8m	
morning rise	2026 Mar 16 13:05	10°♁59'17		min. Earth dist.	2031 May 12 03:44	11°♁02'57	0.55337 AU	
	2026 Apr 09 19:36	0°♁		desc. node	2031 May 16 11:41	9°♁32'23		
	2026 May 18 22:25	0°♁		direct	2031 Jun 13 11:56	4°♁26'17		
	2026 Jun 28 19:29	0°♁			2031 Aug 25 08:08	0°♁		
asc. node	2026 Jul 25 00:14	18°♁18'59			2031 Oct 10 13:47	0°♁		
	2026 Aug 11 08:30	0°♁			2031 Nov 20 10:57	0°♁		
	2026 Sep 28 02:49	0°♁			2031 Dec 29 15:15	0°♁		
	2026 Nov 25 23:37	0°♁			2032 Feb 06 19:19	0°♁		
retrograde	2027 Jan 10 12:59	10°♁25'44		asc. node	2032 Mar 15 21:58	28°♁27'17		
opposition	2027 Feb 19 15:51	0°♁46'06	4°27'48		2032 Mar 18 00:35	0°♁		
greatest brilliancy	2027 Feb 19 16:27	0°♁45'30	-1.2m		2032 Apr 28 22:44	0°♁		
min. Earth dist.	2027 Feb 20 00:08	0°♁37'52	0.67792 AU	evening set	2032 May 20 02:45	14°♁38'45		
	2027 Feb 21 14:13	30°♁♂			2032 Jun 11 19:06	0°♁		
direct	2027 Apr 01 14:08	20°♁55'36						
	2027 May 14 14:47	0°♁		conjunction	2032 Jul 11 05:16	19°♁28'27	0°58'45	
	2027 Jul 15 05:40	0°♁		minimum elong	2032 Jul 11 03:59	19°♁26'22	0°58'45	
desc. node	2027 Aug 11 14:00	16°♁18'32		max. Earth dist.	2032 Jul 27 00:50	29°♁46'10	2.63652 AU	
	2027 Sep 02 01:52	0°♁			2032 Jul 27 09:23	0°♁		
	2027 Oct 15 23:14	0°♁		morning rise	2032 Aug 28 00:06	20°♁17'58		
	2027 Nov 25 18:38	0°♁			2032 Sep 12 06:32	0°♁		
evening set	2028 Jan 03 16:01	0°♁			2032 Oct 30 00:38	0°♁		
	2028 Jan 13 06:42	7°♁33'00			2032 Dec 17 16:46	0°♁		
	2028 Feb 10 16:32	0°♁			2033 Feb 06 11:12	0°♁		
	2028 Mar 19 19:36	0°♁		desc. node	2033 Apr 02 10:28	28°♁20'48		
					2033 Apr 06 06:51	0°♁		
conjunction	2028 Mar 21 02:35	1°♁00'23	0°-48'-38	retrograde	2033 May 26 23:47	12°♁30'17		
minimum elong	2028 Mar 21 05:51	1°♁06'44	0°48'37	opposition	2033 Jun 28 01:29	6°♁41'55	-4°-33'-53	
	2028 Apr 27 22:21	0°♁		greatest brilliancy	2033 Jun 29 16:09	6°♁12'13	-2.5m	
max. Earth dist.	2028 May 11 20:53	10°♁24'20	2.41207 AU	min. Earth dist.	2033 Jul 05 11:13	4°♁26'22	0.42303 AU	
morning rise	2028 May 28 03:27	22°♁20'31			2033 Jul 27 04:34	30°♁♂		
	2028 Jun 07 18:20	0°♁		direct	2033 Aug 01 14:24	29°♁47'30		
asc. node	2028 Jun 10 23:05	2°♁17'09			2033 Aug 07 00:48	0°♁		
	2028 Jul 20 20:10	0°♁			2033 Oct 17 21:52	0°♁		
	2028 Sep 04 14:36	0°♁			2033 Dec 01 12:09	0°♁		
	2028 Oct 24 01:10	0°♁			2034 Jan 12 15:15	0°♁		
	2028 Dec 21 08:46	0°♁		asc. node	2034 Jan 31 20:17	13°♁41'20		
retrograde	2029 Feb 14 08:16	13°♁55'21			2034 Feb 23 23:23	0°♁		
opposition	2029 Mar 25 07:49	4°♁57'09	3°18'31		2034 Apr 08 12:49	0°♁		
greatest brilliancy	2029 Mar 25 23:44	4°♁41'39	-1.3m		2034 May 23 14:26	0°♁		
min. Earth dist.	2029 Mar 29 12:50	3°♁18'57	0.64723 AU	evening set	2034 Jul 03 03:43	26°♁16'55		
	2029 Apr 07 13:09	30°♁♂			2034 Jul 08 22:51	0°♁		
direct	2029 May 05 19:00	24°♁55'45						
	2029 Jun 05 04:49	0°♁		conjunction	2034 Aug 19 05:22	26°♁19'56	1°08'33	
desc. node	2029 Jun 28 12:38	8°♁54'42		minimum elong	2034 Aug 19 05:35	26°♁20'17	1°08'33	
	2029 Aug 07 16:02	0°♁		max. Earth dist.	2034 Aug 19 17:47	26°♁39'42	2.67511 AU	
	2029 Sep 23 08:14	0°♁			2034 Aug 24 23:42	0°♁		

morning rise	2034 Oct 02 21:24	24° \mathbb{M} 47'35		retrograde	2039 Nov 23 20:47	21° \mathbb{S} 45'15	
	2034 Oct 11 00:44	0° \mathbb{L}		min. Earth dist.	2039 Dec 28 14:40	13° \mathbb{S} 49'49	0.61091 AU
	2034 Nov 26 14:15	0° \mathbb{M}		opposition	2040 Jan 02 15:27	11° \mathbb{S} 49'57	3°47'34
	2035 Jan 11 13:01	0° \mathbb{N}		greatest brilliancy	2040 Jan 01 16:14	12° \mathbb{S} 13'01	-1.5m
desc. node	2035 Feb 18 09:34	24° \mathbb{N} 55'55		direct	2040 Feb 09 11:48	3° \mathbb{S} 01'43	
	2035 Feb 26 01:58	0° \mathbb{Z}			2040 May 02 12:07	0° \mathbb{Q}	
	2035 Apr 12 19:35	0° \mathbb{X}			2040 Jun 26 04:42	0° \mathbb{M}	
	2035 May 30 22:07	0° \mathbb{K}			2040 Aug 14 12:35	0° \mathbb{L}	
retrograde	2035 Aug 15 10:01	28° \mathbb{K} 26'02			2040 Sep 29 12:09	0° \mathbb{M}	
min. Earth dist.	2035 Sep 11 14:14	23° \mathbb{K} 58'38	0.38041 AU	desc. node	2040 Oct 10 06:47	7° \mathbb{M} 19'06	
opposition	2035 Sep 15 19:39	22° \mathbb{K} 48'07	-5°-38'-36	evening set	2040 Oct 26 00:35	18° \mathbb{M} 12'20	
greatest brilliancy	2035 Sep 14 22:31	23° \mathbb{K} 02'50	-2.8m	max. Earth dist.	2040 Nov 09 09:21	28° \mathbb{M} 20'55	2.47575 AU
direct	2035 Oct 15 08:32	17° \mathbb{K} 45'25			2040 Nov 11 16:52	0° \mathbb{N}	
	2035 Dec 01 19:37	0° \mathbb{Y}					
asc. node	2035 Dec 19 19:51	8° \mathbb{Y} 46'59		conjunction	2040 Dec 17 12:49	26° \mathbb{N} 11'43	0°-39'-20
	2036 Jan 26 07:15	0° \mathbb{B}		minimum elong	2040 Dec 17 10:58	26° \mathbb{N} 08'17	0°39'20
	2036 Mar 15 02:37	0° \mathbb{I}			2040 Dec 22 14:49	0° \mathbb{Z}	
	2036 May 02 00:50	0° \mathbb{S}			2041 Jan 30 21:08	0° \mathbb{X}	
	2036 Jun 18 23:57	0° \mathbb{Q}		morning rise	2041 Feb 15 07:18	12° \mathbb{X} 00'35	
	2036 Aug 05 18:43	0° \mathbb{M}			2041 Mar 10 06:09	0° \mathbb{K}	
evening set	2036 Aug 09 05:07	2° \mathbb{M} 10'09			2041 Apr 17 14:18	0° \mathbb{Y}	
max. Earth dist.	2036 Sep 11 02:45	23° \mathbb{M} 07'03	2.65909 AU	greatest brilliancy	2041 Apr 28 01:49	8° \mathbb{Y} 06'58	1.2m
	2036 Sep 21 19:16	0° \mathbb{L}			2041 May 26 19:04	0° \mathbb{B}	
					2041 Jul 06 19:30	0° \mathbb{I}	
conjunction	2036 Sep 23 15:45	1° \mathbb{L} 11'52	0°51'49	asc. node	2041 Aug 10 17:14	23° \mathbb{I} 59'55	
minimum elong	2036 Sep 23 16:51	1° \mathbb{L} 13'39	0°51'48		2041 Aug 19 20:27	0° \mathbb{S}	
	2036 Nov 06 13:02	0° \mathbb{M}			2041 Oct 08 13:53	0° \mathbb{Q}	
morning rise	2036 Nov 07 09:48	0° \mathbb{M} 34'36		retrograde	2041 Dec 28 05:39	27° \mathbb{Q} 39'16	
	2036 Dec 20 18:00	0° \mathbb{N}		min. Earth dist.	2042 Feb 05 07:50	18° \mathbb{Q} 17'40	0.67174 AU
desc. node	2037 Jan 05 09:19	10° \mathbb{N} 52'02		opposition	2042 Feb 06 12:05	17° \mathbb{Q} 49'26	4°33'43
	2037 Feb 01 11:08	0° \mathbb{Z}		greatest brilliancy	2042 Feb 06 05:00	17° \mathbb{Q} 56'30	-1.2m
	2037 Mar 14 22:02	0° \mathbb{X}		direct	2042 Mar 18 19:50	8° \mathbb{Q} 10'50	
	2037 Apr 24 14:44	0° \mathbb{K}			2042 May 30 13:08	0° \mathbb{M}	
	2037 Jun 04 13:03	0° \mathbb{Y}			2042 Jul 24 09:51	0° \mathbb{L}	
	2037 Jul 17 22:42	0° \mathbb{B}		desc. node	2042 Aug 28 05:22	21° \mathbb{L} 40'13	
	2037 Sep 11 20:28	0° \mathbb{I}			2042 Sep 09 22:53	0° \mathbb{M}	
retrograde	2037 Oct 12 23:09	6° \mathbb{I} 15'48			2042 Oct 23 11:37	0° \mathbb{N}	
asc. node	2037 Nov 05 18:38	2° \mathbb{I} 13'00			2042 Dec 03 05:42	0° \mathbb{Z}	
min. Earth dist.	2037 Nov 11 07:53	0° \mathbb{I} 19'34	0.49357 AU	evening set	2042 Dec 18 09:52	11° \mathbb{Z} 33'59	
	2037 Nov 12 05:39	30° \mathbb{R} \mathbb{B}			2043 Jan 11 04:09	0° \mathbb{X}	
opposition	2037 Nov 19 09:09	27° \mathbb{B} 22'23	0°43'17		2043 Feb 18 05:43	0° \mathbb{K}	
greatest brilliancy	2037 Nov 19 00:18	27° \mathbb{B} 30'31	-2.2m				
direct	2037 Dec 23 06:31	20° \mathbb{B} 07'36		conjunction	2043 Feb 20 17:46	1° \mathbb{K} 58'41	-1°-3'-14
	2038 Feb 05 00:33	0° \mathbb{I}		minimum elong	2043 Feb 20 19:11	2° \mathbb{K} 01'28	1°03'16
	2038 Apr 07 04:57	0° \mathbb{S}		max. Earth dist.	2043 Mar 09 06:19	15° \mathbb{K} 01'06	2.37120 AU
	2038 May 29 08:38	0° \mathbb{Q}			2043 Mar 28 08:55	0° \mathbb{Y}	
	2038 Jul 17 22:07	0° \mathbb{M}		morning rise	2043 May 02 13:30	27° \mathbb{Y} 04'04	
	2038 Sep 03 13:04	0° \mathbb{L}			2043 May 06 10:41	0° \mathbb{B}	
evening set	2038 Sep 15 11:23	7° \mathbb{L} 43'14			2043 Jun 16 05:22	0° \mathbb{I}	
max. Earth dist.	2038 Oct 06 13:50	21° \mathbb{L} 36'29	2.59037 AU	asc. node	2043 Jun 28 16:39	8° \mathbb{I} 51'42	
	2038 Oct 19 02:36	0° \mathbb{M}			2043 Jul 29 08:30	0° \mathbb{S}	
					2043 Sep 13 13:25	0° \mathbb{Q}	
conjunction	2038 Nov 01 07:00	8° \mathbb{M} 57'18	0°12'54		2043 Nov 03 19:21	0° \mathbb{M}	
minimum elong	2038 Nov 01 07:29	8° \mathbb{M} 58'07	0°12'53		2044 Jan 19 17:59	0° \mathbb{L}	
behind sun begin	2038 Oct 31 19:13	8° \mathbb{M} 37'10		retrograde	2044 Jan 31 23:10	0° \mathbb{L} 53'01	
behind sun end	2038 Nov 01 19:45	9° \mathbb{M} 19'06			2044 Feb 12 17:25	30° \mathbb{R} \mathbb{M}	
desc. node	2038 Nov 23 08:21	24° \mathbb{M} 13'38		opposition	2044 Mar 11 12:50	21° \mathbb{M} 35'51	3°54'54
	2038 Dec 01 13:05	0° \mathbb{N}		greatest brilliancy	2044 Mar 12 00:06	21° \mathbb{M} 24'45	-1.3m
morning rise	2038 Dec 20 00:17	13° \mathbb{N} 11'21		min. Earth dist.	2044 Mar 14 06:01	20° \mathbb{M} 31'44	0.66709 AU
	2039 Jan 12 01:12	0° \mathbb{Z}		direct	2044 Apr 21 23:36	11° \mathbb{M} 34'47	
	2039 Feb 21 00:45	0° \mathbb{X}			2044 Jun 25 03:35	0° \mathbb{L}	
	2039 Apr 01 02:23	0° \mathbb{K}		desc. node	2044 Jul 15 04:23	10° \mathbb{L} 17'10	
	2039 May 10 01:29	0° \mathbb{Y}			2044 Aug 17 18:43	0° \mathbb{M}	
	2039 Jun 18 23:31	0° \mathbb{B}			2044 Oct 01 22:01	0° \mathbb{N}	
	2039 Jul 31 10:57	0° \mathbb{I}			2044 Nov 12 02:48	0° \mathbb{Z}	
	2039 Sep 18 07:28	0° \mathbb{S}			2044 Dec 21 03:03	0° \mathbb{X}	
asc. node	2039 Sep 23 16:59	2° \mathbb{S} 51'01		greatest brilliancy	2044 Dec 22 07:30	0° \mathbb{X} 55'40	1.2m

	2045 Jan 28 04:57	0°♄		morning rise	2049 Sep 19 02:30	11°♏39'16	
evening set	2045 Feb 25 11:22	22°♄14'28			2049 Oct 17 23:46	0°♌	
	2045 Mar 07 10:14	0°♃			2049 Dec 04 03:48	0°♍	
	2045 Apr 15 16:26	0°♂			2050 Jan 20 08:40	0°♎	
conjunction	2045 May 02 10:42	12°♂26'39	0°-8'-32	desc. node	2050 Mar 07 01:49	28°♏37'58	
minimum elong	2045 May 02 11:22	12°♂27'52	0°08'32		2050 Mar 09 07:08	0°♐	
behind sun begin	2045 May 01 12:36	11°♂46'01		retrograde	2050 Apr 29 08:45	0°♑	
behind sun end	2045 May 03 10:07	13°♂09'40		opposition	2050 Jul 15 06:02	26°♑42'24	
asc. node	2045 May 15 14:39	22°♂02'57		greatest brilliancy	2050 Aug 14 07:51	21°♑45'16	-6°-51'-30
	2045 May 26 16:00	0°♅		min. Earth dist.	2050 Aug 15 12:48	21°♑37'57	-2.9m
max. Earth dist.	2045 Jun 14 21:05	13°♅33'41	2.49582 AU	direct	2050 Aug 15 12:48	21°♑26'02	0.37405 AU
morning rise	2045 Jul 01 08:52	24°♅57'11			2050 Sep 13 11:01	16°♑42'38	
	2045 Jul 08 18:43	0°♆			2050 Oct 31 20:49	0°♒	
	2045 Aug 23 04:17	0°♇		asc. node	2050 Dec 23 09:08	0°♓	
	2045 Oct 10 01:54	0°♈			2051 Jan 05 10:54	8°♓19'22	
	2045 Nov 30 18:55	0°♉			2051 Feb 07 17:57	0°♈	
	2046 Feb 04 05:55	0°♊			2051 Mar 25 13:20	0°♉	
retrograde	2046 Mar 11 02:10	6°♊13'56			2051 May 11 00:16	0°♊	
	2046 Apr 12 01:50	30°♋		evening set	2051 Jun 27 04:23	0°♋	
opposition	2046 Apr 17 18:06	27°♋54'06	1°51'04		2051 Jul 26 18:56	18°♋43'26	
greatest brilliancy	2046 Apr 18 09:41	27°♋39'23	-1.6m	max. Earth dist.	2051 Aug 13 14:14	0°♌	
min. Earth dist.	2046 Apr 24 04:26	25°♋28'25	0.59705 AU		2051 Sep 03 00:44	12°♌59'36	2.67195 AU
direct	2046 May 28 15:31	18°♋06'16		conjunction	2051 Sep 10 12:23	17°♌46'26	1°01'08
desc. node	2046 Jun 02 02:57	18°♋13'59		minimum elong	2051 Sep 10 13:18	17°♌47'53	1°01'07
	2046 Jul 15 05:12	0°♍			2051 Sep 29 13:36	0°♍	
	2046 Sep 07 05:03	0°♎		morning rise	2051 Oct 24 20:23	16°♍23'56	
	2046 Oct 20 16:07	0°♏			2051 Nov 14 13:13	0°♎	
	2046 Nov 29 14:25	0°♐			2051 Dec 29 07:10	0°♏	
	2047 Jan 07 05:45	0°♑		desc. node	2052 Jan 23 00:38	16°♏56'40	
	2047 Feb 14 23:22	0°♒			2052 Feb 10 19:54	0°♐	
	2047 Mar 26 18:49	0°♓			2052 Mar 24 08:43	0°♑	
asc. node	2047 Apr 02 14:09	5°♓00'41			2052 May 05 11:00	0°♒	
evening set	2047 Apr 30 19:36	25°♓23'37			2052 Jun 17 15:12	0°♓	
	2047 May 07 07:44	0°♈			2052 Aug 06 16:31	0°♈	
	2047 Jun 19 20:43	0°♉		retrograde	2052 Sep 22 19:11	13°♈22'56	
conjunction	2047 Jun 25 02:56	3°♉32'06	0°46'33	min. Earth dist.	2052 Oct 20 05:05	8°♈16'49	0.44090 AU
minimum elong	2047 Jun 25 01:17	3°♉29'20	0°46'32	opposition	2052 Oct 28 06:33	5°♈33'09	-1°-29'-3
max. Earth dist.	2047 Jul 17 20:34	18°♉37'13	2.60675 AU	greatest brilliancy	2052 Oct 27 15:10	5°♈46'12	-2.5m
	2047 Aug 04 06:59	0°♊			2052 Nov 18 09:06	30°♉	
morning rise	2047 Aug 14 04:35	6°♊23'47		asc. node	2052 Nov 22 10:37	29°♉30'24	
	2047 Sep 20 06:28	0°♋		direct	2052 Nov 29 06:19	29°♉11'20	
	2047 Nov 07 14:26	0°♌			2052 Dec 10 12:54	0°♈	
	2047 Dec 27 21:25	0°♍			2053 Feb 23 19:45	0°♉	
	2048 Feb 21 17:49	0°♎			2053 Apr 17 10:44	0°♊	
desc. node	2048 Apr 19 02:04	19°♎35'17			2053 Jun 06 09:21	0°♋	
retrograde	2048 Apr 30 16:52	20°♎22'25		evening set	2053 Jul 25 01:52	0°♌	
opposition	2048 Jun 03 14:50	13°♎42'18	-2°-19'-17		2053 Aug 31 19:55	23°♏51'11	
greatest brilliancy	2048 Jun 04 16:17	13°♎20'52	-2.2m	max. Earth dist.	2053 Sep 10 09:28	0°♍	
min. Earth dist.	2048 Jun 12 01:34	10°♎52'06	0.47367 AU		2053 Sep 26 04:22	10°♍15'12	2.62323 AU
direct	2048 Jul 10 22:38	5°♎31'03		conjunction	2053 Oct 16 16:58	23°♍47'53	0°30'16
	2048 Sep 17 11:49	0°♏		minimum elong	2053 Oct 16 17:55	23°♍49'29	0°30'15
	2048 Nov 01 23:07	0°♐			2053 Oct 25 23:26	0°♎	
	2048 Dec 13 01:51	0°♑		morning rise	2053 Dec 02 06:18	25°♎31'26	
	2049 Jan 22 11:54	0°♒			2053 Dec 08 15:51	0°♏	
asc. node	2049 Feb 17 13:15	19°♒04'50		desc. node	2053 Dec 09 23:20	0°♏55'17	
	2049 Mar 04 16:49	0°♓			2054 Jan 19 13:21	0°♐	
	2049 Apr 16 10:13	0°♈			2054 Mar 01 00:07	0°♑	
	2049 May 30 21:26	0°♉			2054 Apr 09 13:06	0°♒	
evening set	2049 Jun 17 02:04	11°♉19'10			2054 May 19 00:02	0°♓	
	2049 Jul 15 20:39	0°♊			2054 Jun 28 14:49	0°♈	
conjunction	2049 Aug 04 15:15	12°♊41'49	1°08'11		2054 Aug 11 18:05	0°♉	
minimum elong	2049 Aug 04 14:54	12°♊41'15	1°08'11	asc. node	2054 Oct 08 19:53	0°♊	
max. Earth dist.	2049 Aug 10 18:55	16°♊37'49	2.66653 AU	retrograde	2054 Oct 10 10:38	0°♋33'10	
	2049 Aug 31 18:23	0°♌			2054 Nov 08 18:42	5°♋54'21	
					2054 Dec 08 00:45	30°♌	

min. Earth dist.	2054 Dec 11 11:36	28°II41'57	0.57014 AU	evening set	2060 Jan 29 00:28	23°≈47'53	
opposition	2054 Dec 17 22:14	26°II11'11	2°57'52		2060 Feb 05 20:36	0°✕	
greatest brilliancy	2054 Dec 16 21:51	26°II35'00	-1.7m		2060 Mar 15 00:05	0°Υ	
direct	2055 Jan 23 10:01	17°II53'08					
	2055 Mar 14 15:21	0°☿		conjunction	2060 Apr 06 03:54	17°Υ07'02	0°-35'-15
	2055 May 14 08:41	0°♁		minimum elong	2060 Apr 06 06:42	17°Υ12'24	0°35'14
	2055 Jul 05 07:04	0°♃			2060 Apr 23 03:27	0°♄	
	2055 Aug 22 18:43	0°♅		max. Earth dist.	2060 May 26 20:47	24°♄52'36	2.44210 AU
	2055 Oct 07 12:49	0°♆		asc. node	2060 Jun 01 07:34	28°♄48'10	
evening set	2055 Oct 09 23:32	1°♆39'11			2060 Jun 02 23:37	0°♁	
max. Earth dist.	2055 Oct 25 20:59	12°♆31'15	2.52486 AU	morning rise	2060 Jun 10 09:48	5°II17'37	
desc. node	2055 Oct 27 22:10	13°♆56'17			2060 Jul 16 00:23	0°☿	
	2055 Nov 19 18:55	0°♁			2060 Aug 30 13:28	0°♁	
					2060 Oct 18 06:09	0°♃	
conjunction	2055 Nov 28 13:51	6°♁17'46	0°-18'-52		2060 Dec 12 03:06	0°♅	
minimum elong	2055 Nov 28 12:59	6°♁16'12	0°18'52	retrograde	2061 Feb 22 22:44	22°♅04'13	
	2055 Dec 30 21:25	0°♄		opposition	2061 Apr 02 12:52	13°♅18'16	2°50'54
morning rise	2056 Jan 21 21:54	16°♄36'25		greatest brilliancy	2061 Apr 03 06:01	13°♅01'44	-1.4m
	2056 Feb 08 09:23	0°≈		min. Earth dist.	2061 Apr 07 13:47	11°♅21'44	0.63199 AU
	2056 Mar 17 23:34	0°✕		direct	2061 May 13 21:40	3°♅19'08	
	2056 Apr 25 11:53	0°Υ		desc. node	2061 Jun 18 19:16	10°♅17'16	
	2056 Jun 03 20:47	0°♄			2061 Jul 31 03:59	0°♆	
	2056 Jul 15 04:40	0°II			2061 Sep 17 11:41	0°♁	
asc. node	2056 Aug 27 09:06	28°II52'16			2061 Oct 29 15:43	0°♄	
	2056 Aug 29 04:09	0°☿			2061 Dec 08 01:36	0°≈	
	2056 Oct 22 04:25	0°♁			2062 Jan 15 09:19	0°✕	
retrograde	2056 Dec 14 20:17	14°♁28'15			2062 Feb 22 20:09	0°Υ	
min. Earth dist.	2057 Jan 21 08:56	5°♁36'48	0.65552 AU		2062 Apr 03 08:48	0°♄	
greatest brilliancy	2057 Jan 23 11:02	4°♁46'41	-1.3m	evening set	2062 Apr 07 23:04	3°♄24'41	
opposition	2057 Jan 24 01:31	4°♁32'10	4°27'23	asc. node	2062 Apr 19 05:27	11°♄42'12	
	2057 Feb 05 01:06	30°♃☿			2062 May 14 14:54	0°II	
direct	2057 Mar 04 13:32	25°☿09'36					
	2057 Apr 03 21:31	0°♁		conjunction	2062 Jun 06 06:04	15°II51'29	0°29'06
	2057 Jun 10 21:52	0°♃		minimum elong	2062 Jun 06 04:34	15°II48'53	0°29'04
	2057 Aug 01 17:27	0°♅			2062 Jun 26 22:17	0°☿	
desc. node	2057 Sep 13 20:43	27°♅35'35		max. Earth dist.	2062 Jul 06 12:21	6°☿27'14	2.56900 AU
	2057 Sep 17 11:26	0°♆		morning rise	2062 Jul 29 09:37	21°☿37'01	
	2057 Oct 30 19:41	0°♁			2062 Aug 11 06:14	0°♁	
evening set	2057 Nov 25 13:38	18°♁45'16			2062 Sep 27 10:42	0°♃	
	2057 Dec 10 14:32	0°♄			2062 Nov 15 15:18	0°♅	
max. Earth dist.	2057 Dec 18 09:01	5°♄53'06	2.39736 AU		2063 Jan 07 14:56	0°♆	
	2058 Jan 18 15:25	0°≈			2063 Mar 23 09:40	0°♁	
				retrograde	2063 Apr 09 06:15	1°♁36'41	
conjunction	2058 Jan 23 20:23	4°≈04'10	-1°-2'-40		2063 Apr 25 06:57	30°♃♆	
minimum elong	2058 Jan 23 19:03	4°≈01'34	1°02'40	desc. node	2063 May 06 17:56	26°♆58'14	
	2058 Feb 25 19:02	0°✕		opposition	2063 May 14 22:20	24°♆10'46	0°-23'-11
morning rise	2058 Apr 02 17:52	28°✕16'15		greatest brilliancy	2063 May 15 02:49	24°♆06'46	-1.9m
	2058 Apr 04 23:04	0°Υ		min. Earth dist.	2063 May 23 01:49	21°♆16'04	0.52638 AU
	2058 May 14 00:36	0°♄		direct	2063 Jun 23 04:41	15°♆05'43	
	2058 Jun 23 19:18	0°II			2063 Aug 14 10:59	0°♁	
asc. node	2058 Jul 15 08:01	15°II10'19			2063 Oct 03 10:19	0°♄	
	2058 Aug 06 02:29	0°☿			2063 Nov 14 07:24	0°≈	
	2058 Sep 22 01:48	0°♁			2063 Dec 23 23:02	0°✕	
	2058 Nov 15 18:22	0°♃			2064 Feb 01 10:31	0°Υ	
retrograde	2059 Jan 18 05:58	18°♃09'37		asc. node	2064 Mar 06 04:38	25°Υ05'49	
opposition	2059 Feb 27 05:30	8°♃37'09	4°19'02		2064 Mar 12 21:50	0°♄	
greatest brilliancy	2059 Feb 27 10:16	8°♃32'25	-1.2m		2064 Apr 24 00:50	0°II	
min. Earth dist.	2059 Feb 28 10:25	8°♃08'28	0.67681 AU	evening set	2064 May 30 18:44	25°II07'58	
	2059 Mar 26 01:40	30°♃♁			2064 Jun 07 01:06	0°☿	
direct	2059 Apr 09 09:47	28°♁41'36					
	2059 Apr 24 10:40	0°♃		conjunction	2064 Jul 20 10:02	28°☿30'14	1°03'34
	2059 Jul 08 12:47	0°♅		minimum elong	2064 Jul 20 09:04	28°☿28'40	1°03'34
desc. node	2059 Aug 01 19:29	13°♅55'22			2064 Jul 22 17:29	0°♁	
	2059 Aug 27 15:38	0°♆		max. Earth dist.	2064 Aug 01 16:03	6°♁24'49	2.64965 AU
	2059 Oct 10 22:30	0°♁		morning rise	2064 Sep 05 04:51	28°♁29'09	
	2059 Nov 20 21:10	0°♄			2064 Sep 07 14:03	0°♃	
	2059 Dec 29 19:43	0°≈			2064 Oct 25 02:23	0°♅	

	2064 Dec 12 02:43	0°♄			2070 Jul 12 22:15	0°♄		
	2065 Jan 30 05:30	0°♂			2070 Aug 29 20:00	0°♄		
desc. node	2065 Mar 23 16:28	29°♂52'34		evening set	2070 Sep 24 03:48	16°♄27'43		
	2065 Mar 23 22:06	0°♂		max. Earth dist.	2070 Oct 13 04:40	29°♄08'35	2.56876 AU	
retrograde	2065 Jun 12 20:01	27°♂23'12			2070 Oct 14 11:11	0°♄		
opposition	2065 Jul 13 21:02	22°♂02'13	-5°-45'-44					
greatest brilliancy	2065 Jul 15 09:57	21°♂35'44	-2.7m	conjunction	2070 Nov 10 18:23	18°♄42'05	0°01'42	
min. Earth dist.	2065 Jul 19 19:44	20°♂20'26	0.39959 AU	minimum elong	2070 Nov 10 18:29	18°♄42'14	0°01'41	
direct	2065 Aug 15 14:42	15°♂55'30		behind sun begin	2070 Nov 09 22:04	18°♄06'45		
	2065 Oct 03 19:23	0°♂		behind sun end	2070 Nov 11 14:54	19°♄17'46		
	2065 Nov 22 21:22	0°♂		desc. node	2070 Nov 13 13:33	20°♄39'06		
	2066 Jan 05 18:43	0°♂			2070 Nov 26 20:29	0°♂		
asc. node	2066 Jan 22 04:18	11°♂23'40		morning rise	2070 Dec 31 03:13	24°♂46'01		
	2066 Feb 18 01:26	0°♂			2071 Jan 07 05:20	0°♂		
	2066 Apr 03 04:50	0°♂			2071 Feb 16 00:53	0°♂		
	2066 May 18 15:35	0°♂			2071 Mar 26 22:15	0°♂		
	2066 Jul 04 05:26	0°♂			2071 May 04 16:44	0°♂		
evening set	2066 Jul 11 22:58	4°♂55'54			2071 Jun 13 08:27	0°♂		
	2066 Aug 20 08:48	0°♂			2071 Jul 25 05:44	0°♂		
max. Earth dist.	2066 Aug 25 00:15	2°♂57'13	2.67633 AU		2071 Sep 10 00:26	0°♂		
				asc. node	2071 Sep 14 01:54	2°♂21'11		
conjunction	2066 Aug 27 09:57	4°♂28'59	1°06'54		2071 Nov 22 13:08	0°♂		
minimum elong	2066 Aug 27 10:28	4°♂29'49	1°06'54	retrograde	2071 Dec 02 01:25	0°♂35'23		
	2066 Oct 06 08:51	0°♂			2071 Dec 11 07:31	30°♂R♂		
morning rise	2066 Oct 10 19:54	2°♂51'55		min. Earth dist.	2072 Jan 06 20:16	22°♂18'31	0.62938 AU	
	2066 Nov 21 16:48	0°♂		greatest brilliancy	2072 Jan 10 04:17	20°♂58'43	-1.4m	
	2067 Jan 06 03:54	0°♂		opposition	2072 Jan 11 01:04	20°♂37'58	4°07'06	
desc. node	2067 Feb 08 16:08	22°♂27'49		direct	2072 Feb 18 12:41	11°♂35'57		
	2067 Feb 19 19:59	0°♂			2072 Apr 23 23:07	0°♂		
	2067 Apr 05 01:36	0°♂			2072 Jun 20 10:29	0°♂		
	2067 May 19 21:50	0°♂			2072 Aug 09 12:31	0°♂		
	2067 Jul 08 21:53	0°♂			2072 Sep 24 18:18	0°♂		
retrograde	2067 Aug 31 00:18	16°♂06'06		desc. node	2072 Sep 30 12:55	3°♄53'46		
min. Earth dist.	2067 Sep 26 12:50	11°♂35'14	0.39669 AU	evening set	2072 Nov 05 11:16	28°♄53'26		
opposition	2067 Oct 02 19:54	9°♂42'25	-4°-12'-1		2072 Nov 07 00:33	0°♂		
greatest brilliancy	2067 Oct 01 17:02	10°♂02'37	-2.7m	max. Earth dist.	2072 Nov 20 06:04	9°♂32'39	2.44687 AU	
direct	2067 Nov 02 02:55	4°♂16'10			2072 Dec 17 21:27	0°♂		
asc. node	2067 Dec 10 03:11	12°♂26'55						
	2068 Jan 16 08:04	0°♂		conjunction	2072 Dec 30 02:53	9°♂14'57	0°-49'-51	
	2068 Mar 08 08:31	0°♂		minimum elong	2072 Dec 30 00:46	9°♂10'54	0°49'50	
	2068 Apr 26 11:31	0°♂			2073 Jan 26 01:48	0°♂		
	2068 Jun 14 00:16	0°♂		greatest brilliancy	2073 Feb 21 02:20	20°♂21'17	1.2m	
	2068 Aug 01 01:43	0°♂		morning rise	2073 Mar 03 10:04	28°♂28'18		
evening set	2068 Aug 17 10:38	10°♂20'15			2073 Mar 05 08:40	0°♂		
max. Earth dist.	2068 Sep 16 14:44	29°♂37'42	2.64857 AU		2073 Apr 12 14:49	0°♂		
	2068 Sep 17 04:33	0°♂			2073 May 21 17:41	0°♂		
					2073 Jul 01 14:40	0°♂		
conjunction	2068 Oct 01 21:50	9°♂33'13	0°44'48	asc. node	2073 Aug 01 00:21	21°♂08'56		
minimum elong	2068 Oct 01 22:58	9°♂35'04	0°44'47		2073 Aug 14 06:12	0°♂		
	2068 Nov 01 21:00	0°♂			2073 Oct 01 13:55	0°♂		
morning rise	2068 Nov 16 02:55	9°♄34'55			2073 Dec 04 06:56	0°♂		
	2068 Dec 15 21:37	0°♂		retrograde	2074 Jan 04 21:00	5°♄28'06		
desc. node	2068 Dec 26 15:00	7°♂29'09			2074 Feb 02 23:00	30°♄R♄		
	2069 Jan 27 07:20	0°♂		opposition	2074 Feb 14 01:57	25°♄43'37	4°31'37	
	2069 Mar 09 08:46	0°♂		greatest brilliancy	2074 Feb 13 23:13	25°♄46'21	-1.2m	
	2069 Apr 18 13:35	0°♂		min. Earth dist.	2074 Feb 13 18:17	25°♄51'16	0.67645 AU	
	2069 May 28 19:05	0°♂		direct	2074 Mar 26 18:10	15°♄57'51		
	2069 Jul 09 17:30	0°♂			2074 May 21 07:28	0°♂		
	2069 Aug 27 00:52	0°♂			2074 Jul 18 12:45	0°♂		
retrograde	2069 Oct 23 06:14	18°♂04'05		desc. node	2074 Aug 18 12:02	18°♄49'23		
asc. node	2069 Oct 27 01:56	17°♂57'43			2074 Sep 04 20:18	0°♂		
min. Earth dist.	2069 Nov 22 19:09	11°♂39'58	0.52220 AU		2074 Oct 18 15:23	0°♂		
opposition	2069 Nov 30 10:19	8°♂47'18	1°42'02		2074 Nov 28 11:11	0°♂		
greatest brilliancy	2069 Nov 29 16:09	9°♂04'27	-2.0m	evening set	2075 Jan 01 14:37	26°♂15'14		
direct	2070 Jan 04 08:13	1°♂07'19			2075 Jan 06 09:39	0°♂		
	2070 Mar 30 11:23	0°♂			2075 Feb 13 10:36	0°♂		
	2070 May 23 15:43	0°♂						

conjunction	2075 Mar 09 06:50	18° κ 49'21	0°-56'-39		2079 Nov 02 11:23	0° ♊	
minimum elong	2075 Mar 09 09:42	18° κ 54'59	0°56'39		2079 Dec 21 17:46	0° ♋	
	2075 Mar 23 13:06	0° ♈			2080 Feb 12 04:12	0° ♌	
max. Earth dist.	2075 Apr 24 22:46	24° ♈ 58'02	2.38970 AU	desc. node	2080 Apr 09 08:09	26° ♌ 10'49	
	2075 May 01 14:27	0° ♉			2080 Apr 22 13:43	0° ♍	
morning rise	2075 May 18 01:40	12° ♉ 18'06		retrograde	2080 May 14 22:20	2° ♍ 48'47	
	2075 Jun 11 08:27	0° ♊			2080 Jun 05 07:23	30° ♌ ♌	
asc. node	2075 Jun 18 22:42	5° ♊ 25'25		opposition	2080 Jun 16 20:26	26° ♌ 36'46	-3°-34'-37
	2075 Jul 24 09:04	0° ♋		greatest brilliancy	2080 Jun 18 07:24	26° ♌ 08'37	-2.4m
	2075 Sep 08 05:37	0° ♌		min. Earth dist.	2080 Jun 24 22:45	24° ♌ 01'24	0.44498 AU
	2075 Oct 28 05:29	0° ♍		direct	2080 Jul 22 17:04	19° ♌ 05'24	
	2075 Dec 29 03:47	0° ♎			2080 Sep 03 07:12	0° ♍	
retrograde	2076 Feb 09 02:07	8° ♎ 45'22			2080 Oct 24 14:22	0° ♎	
	2076 Mar 18 10:41	30° ♌ ♌			2080 Dec 06 06:21	0° ♏	
opposition	2076 Mar 19 08:54	29° ♍ 38'18	3°35'03		2081 Jan 16 11:26	0° ♐	
greatest brilliancy	2076 Mar 19 23:02	29° ♍ 24'29	-1.3m	asc. node	2081 Feb 07 20:11	16° ♐ 10'25	
min. Earth dist.	2076 Mar 22 22:22	28° ♍ 14'45	0.65743 AU		2081 Feb 27 05:01	0° ♑	
direct	2076 Apr 29 20:55	19° ♍ 36'13			2081 Apr 11 07:37	0° ♒	
	2076 Jun 14 11:03	0° ♎			2081 May 26 01:21	0° ♓	
desc. node	2076 Jul 05 10:28	9° ♎ 26'58		evening set	2081 Jun 26 09:35	20° ♓ 27'30	
	2076 Aug 11 11:49	0° ♏			2081 Jul 11 04:38	0° ♑	
	2076 Sep 26 12:25	0° ♐					
	2076 Nov 07 00:28	0° ♑		conjunction	2081 Aug 13 01:25	21° ♑ 01'35	1°08'53
	2076 Dec 16 03:54	0° ♒		minimum elong	2081 Aug 13 01:24	21° ♑ 01'34	1°08'53
	2077 Jan 23 07:31	0° ♓		max. Earth dist.	2081 Aug 16 01:27	22° ♑ 56'20	2.67228 AU
	2077 Mar 02 14:00	0° ♈			2081 Aug 27 03:38	0° ♒	
evening set	2077 Mar 13 01:28	8° ♈ 05'55		morning rise	2081 Sep 27 00:35	19° ♒ 38'55	
	2077 Apr 10 21:28	0° ♉			2081 Oct 13 06:16	0° ♓	
asc. node	2077 May 05 22:39	18° ♉ 29'20			2081 Nov 29 01:54	0° ♑	
					2082 Jan 14 12:55	0° ♒	
conjunction	2077 May 15 20:34	25° ♉ 39'22	0°06'22	desc. node	2082 Feb 25 07:06	26° ♒ 59'18	
minimum elong	2077 May 15 20:07	25° ♉ 38'36	0°06'22		2082 Mar 01 23:26	0° ♓	
behind sun begin	2077 May 14 20:39	24° ♉ 56'23			2082 Apr 18 10:32	0° ♑	
behind sun end	2077 May 16 19:36	26° ♉ 20'45			2082 Jun 10 13:44	0° ♒	
	2077 May 21 22:05	0° ♊		retrograde	2082 Aug 02 04:15	14° ♒ 56'19	
max. Earth dist.	2077 Jun 23 12:10	22° ♊ 48'38	2.52339 AU	min. Earth dist.	2082 Aug 30 18:53	10° ♒ 16'24	0.37356 AU
	2077 Jul 04 00:59	0° ♋		opposition	2082 Sep 01 17:38	9° ♒ 45'07	-6°-27'-8
morning rise	2077 Jul 12 02:45	5° ♋ 27'08		greatest brilliancy	2082 Sep 01 08:45	9° ♒ 51'04	-2.9m
	2077 Aug 18 08:23	0° ♌		direct	2082 Oct 01 04:11	4° ♒ 50'45	
	2077 Oct 04 21:25	0° ♍			2082 Dec 12 10:09	0° ♓	
	2077 Nov 24 09:46	0° ♎		asc. node	2082 Dec 26 19:15	8° ♓ 14'08	
	2078 Jan 21 16:27	0° ♏			2083 Jan 31 09:07	0° ♑	
retrograde	2078 Mar 21 00:43	15° ♏ 16'21			2083 Mar 19 14:34	0° ♒	
opposition	2078 Apr 27 01:37	7° ♏ 13'44	1°08'02		2083 May 05 18:44	0° ♓	
greatest brilliancy	2078 Apr 27 13:01	7° ♏ 03'08	-1.7m		2083 Jun 22 08:21	0° ♑	
min. Earth dist.	2078 May 04 05:02	4° ♏ 34'24	0.57392 AU	evening set	2083 Aug 04 01:56	26° ♑ 54'55	
	2078 May 18 14:43	30° ♌ ♌			2083 Aug 08 23:01	0° ♒	
desc. node	2078 May 23 09:14	28° ♌ 57'14		max. Earth dist.	2083 Sep 08 07:15	19° ♒ 17'37	2.66587 AU
direct	2078 Jun 06 12:49	27° ♌ 36'45					
	2078 Jun 26 04:05	0° ♍		conjunction	2083 Sep 18 14:20	25° ♒ 53'46	0°56'06
	2078 Aug 30 16:41	0° ♎		minimum elong	2083 Sep 18 15:23	25° ♒ 55'27	0°56'06
	2078 Oct 14 13:11	0° ♏			2083 Sep 24 23:19	0° ♑	
	2078 Nov 23 23:42	0° ♐		morning rise	2083 Nov 02 02:28	24° ♑ 52'33	
	2079 Jan 01 21:43	0° ♒			2083 Nov 09 20:10	0° ♓	
	2079 Feb 09 20:05	0° ♈			2083 Dec 24 07:18	0° ♑	
	2079 Mar 21 19:47	0° ♉		desc. node	2084 Jan 13 06:49	13° ♑ 48'11	
asc. node	2079 Mar 23 21:56	1° ♉ 32'10			2084 Feb 05 09:02	0° ♒	
	2079 May 02 12:22	0° ♊			2084 Mar 18 06:46	0° ♓	
evening set	2079 May 12 14:49	7° ♊ 03'54			2084 Apr 28 12:15	0° ♑	
	2079 Jun 15 04:00	0° ♋			2084 Jun 09 04:23	0° ♒	
					2084 Jul 24 07:17	0° ♓	
conjunction	2079 Jul 05 01:18	13° ♋ 15'23	0°54'14	retrograde	2084 Oct 04 14:31	27° ♒ 16'20	
minimum elong	2079 Jul 04 23:48	13° ♋ 12'56	0°54'12	min. Earth dist.	2084 Nov 02 00:27	21° ♒ 43'29	0.46985 AU
max. Earth dist.	2079 Jul 23 21:12	25° ♋ 36'35	2.62418 AU	opposition	2084 Nov 10 06:06	18° ♒ 48'00	0°-8'-26
	2079 Jul 30 15:14	0° ♌		greatest brilliancy	2085 May 03 03:49	12° ♓ 50'15	-4.1m
morning rise	2079 Aug 22 18:33	14° ♌ 54'02		asc. node	2084 Nov 12 18:36	17° ♓ 54'52	
	2079 Sep 15 12:27	0° ♍		direct	2084 Dec 13 07:34	11° ♓ 55'50	

	2085 Feb 13 13:47	0°♁			2090 Feb 20 23:26	0°♁		
	2085 Apr 10 23:38	0°♁			2090 Mar 31 02:36	0°♁		
	2085 Jun 01 01:46	0°♁		morning rise	2090 Apr 19 20:00	15°♁17'11		
	2085 Jul 20 06:00	0°♁			2090 May 09 03:21	0°♁		
evening set	2085 Sep 05 18:19	0°♁			2090 Jun 18 20:40	0°♁		
	2085 Sep 09 03:26	2°♁10'44		asc. node	2090 Jul 05 16:05	11°♁55'26		
max. Earth dist.	2085 Oct 02 02:53	17°♁10'26	2.60603 AU		2090 Jul 31 23:23	0°♁		
	2085 Oct 21 08:59	0°♁			2090 Sep 16 08:55	0°♁		
					2090 Nov 07 15:03	0°♁		
conjunction	2085 Oct 25 11:03	2°♁45'17	0°20'32	retrograde	2091 Jan 26 01:34	25°♁54'48		
minimum elong	2085 Oct 25 11:46	2°♁46'30	0°20'31	opposition	2091 Mar 06 20:13	16°♁30'27	4°06'11	
desc. node	2085 Nov 30 05:53	27°♁23'12		greatest brilliancy	2091 Mar 07 04:46	16°♁22'00	-1.2m	
	2085 Dec 03 23:09	0°♁		min. Earth dist.	2091 Mar 08 21:35	15°♁41'41	0.67272 AU	
morning rise	2085 Dec 12 02:21	5°♁45'06		direct	2091 Apr 17 04:39	6°♁31'06		
	2086 Jan 14 16:07	0°♁			2091 Jun 30 23:36	0°♁		
	2086 Feb 23 20:58	0°♁		desc. node	2091 Jul 23 01:58	11°♁58'11		
	2086 Apr 04 03:30	0°♁			2091 Aug 21 23:54	0°♁		
	2086 May 13 06:47	0°♁			2091 Oct 05 19:34	0°♁		
	2086 Jun 22 10:00	0°♁			2091 Nov 15 22:38	0°♁		
	2086 Aug 04 08:51	0°♁			2091 Dec 24 22:39	0°♁		
	2086 Sep 24 09:14	0°♁			2092 Feb 01 00:07	0°♁		
asc. node	2086 Sep 30 16:55	3°♁00'25		greatest brilliancy	2092 Feb 14 12:00	10°♁39'32	1.2m	
retrograde	2086 Nov 17 14:09	15°♁38'08		evening set	2092 Feb 14 01:17	10°♁18'25		
min. Earth dist.	2086 Dec 21 10:46	8°♁00'49	0.59386 AU		2092 Mar 10 03:59	0°♁		
greatest brilliancy	2086 Dec 26 02:09	6°♁10'59	-1.6m		2092 Apr 18 07:55	0°♁		
opposition	2086 Dec 27 02:36	5°♁46'48	3°29'40					
	2087 Jan 12 17:10	30°♁		conjunction	2092 Apr 21 09:36	2°♁18'10	0°-20'-6	
direct	2087 Feb 02 08:57	27°♁11'00		minimum elong	2092 Apr 21 11:15	2°♁21'15	0°20'07	
	2087 Feb 24 16:34	0°♁		asc. node	2092 May 22 14:22	25°♁15'16		
	2087 May 07 12:06	0°♁			2092 May 29 04:45	0°♁		
	2087 Jun 29 22:15	0°♁		max. Earth dist.	2092 Jun 07 09:12	6°♁32'32	2.47220 AU	
	2087 Aug 17 22:05	0°♁		morning rise	2092 Jun 22 16:12	17°♁16'03		
	2087 Oct 02 20:30	0°♁			2092 Jul 11 04:59	0°♁		
desc. node	2087 Oct 18 04:16	10°♁25'29			2092 Aug 25 14:23	0°♁		
evening set	2087 Oct 19 11:40	11°♁19'29			2092 Oct 12 17:30	0°♁		
max. Earth dist.	2087 Nov 03 05:58	21°♁35'30	2.49834 AU		2092 Dec 04 10:19	0°♁		
	2087 Nov 15 03:13	0°♁			2093 Feb 22 16:13	0°♁		
				retrograde	2093 Mar 03 23:50	0°♁30'38		
conjunction	2087 Dec 09 13:22	17°♁40'48	0°-30'-46		2093 Mar 13 01:05	30°♁		
minimum elong	2087 Dec 09 11:56	17°♁38'09	0°30'45	opposition	2093 Apr 11 02:19	21°♁58'34	2°18'00	
	2087 Dec 26 04:12	0°♁		greatest brilliancy	2093 Apr 11 19:09	21°♁42'30	-1.5m	
morning rise	2088 Feb 03 13:40	0°♁		min. Earth dist.	2093 Apr 16 22:14	19°♁45'06	0.61383 AU	
	2088 Feb 04 17:18	0°♁53'25		direct	2093 May 22 05:59	12°♁04'19		
	2088 Mar 13 01:11	0°♁		desc. node	2093 Jun 09 00:31	13°♁58'55		
	2088 Apr 20 10:39	0°♁			2093 Jul 22 03:46	0°♁		
	2088 May 29 16:05	0°♁			2093 Sep 11 04:54	0°♁		
	2088 Jul 09 17:47	0°♁			2093 Oct 24 02:18	0°♁		
asc. node	2088 Aug 17 16:32	26°♁32'55			2093 Dec 02 19:16	0°♁		
	2088 Aug 23 00:21	0°♁			2094 Jan 10 07:03	0°♁		
	2088 Oct 12 22:00	0°♁			2094 Feb 17 20:48	0°♁		
retrograde	2088 Dec 22 14:08	22°♁34'46			2094 Mar 29 11:58	0°♁		
min. Earth dist.	2089 Jan 30 00:18	13°♁25'44	0.66577 AU	asc. node	2094 Apr 09 13:33	8°♁09'51		
opposition	2089 Jan 31 20:22	12°♁41'38	4°32'43	evening set	2094 Apr 21 05:44	16°♁40'17		
greatest brilliancy	2089 Jan 31 09:57	12°♁52'03	-1.3m		2094 May 09 20:31	0°♁		
direct	2089 Mar 12 19:35	3°♁09'31						
	2089 Jun 03 19:02	0°♁		conjunction	2094 Jun 17 05:44	26°♁37'11	0°39'49	
	2089 Jul 27 06:45	0°♁		minimum elong	2094 Jun 17 04:04	26°♁34'20	0°39'47	
desc. node	2089 Sep 04 02:55	24°♁27'15			2094 Jun 22 05:29	0°♁		
	2089 Sep 12 12:47	0°♁		max. Earth dist.	2094 Jul 13 04:31	14°♁01'18	2.59082 AU	
	2089 Oct 26 01:02	0°♁			2094 Aug 06 13:30	0°♁		
	2089 Dec 05 20:31	0°♁		morning rise	2094 Aug 07 13:48	0°♁39'25		
evening set	2089 Dec 08 02:25	1°♁41'48			2094 Sep 22 13:54	0°♁		
	2090 Jan 13 20:42	0°♁			2094 Nov 10 04:56	0°♁		
max. Earth dist.	2090 Jan 15 22:09	1°♁36'36	2.37599 AU		2094 Dec 31 10:11	0°♁		
					2095 Mar 01 06:14	0°♁		
conjunction	2090 Feb 08 05:27	19°♁55'56	-1°-4'-50	retrograde	2095 Apr 21 13:03	12°♁22'11		
minimum elong	2090 Feb 08 05:32	19°♁56'05	1°04'50	desc. node	2095 Apr 26 23:21	12°♁11'11		

opposition	2095 May 26 06:25	5°♂20'31	-1°-26'-46		2100 Jul 28 08:10	0°♎	
greatest brilliancy	2095 May 26 22:56	5°♂06'10	-2.1m	evening set	2100 Aug 26 16:01	18°♎30'52	
min. Earth dist.	2095 Jun 03 16:04	2°♂25'37	0.49748 AU		2100 Sep 13 14:07	0°♌	
	2095 Jun 11 10:02	30°♂♂		max. Earth dist.	2100 Sep 23 03:57	6°♌11'52	2.63561 AU
direct	2095 Jul 03 12:47	26°♂♂42'11					
	2095 Jul 26 03:46	0°♂		conjunction	2100 Oct 11 06:55	18°♌03'39	0°36'43
	2095 Sep 25 01:40	0°♂		minimum elong	2100 Oct 11 07:59	18°♌05'24	0°36'43
	2095 Nov 07 14:24	0°♂			2100 Oct 29 06:03	0°♌	
	2095 Dec 17 23:17	0°♂		morning rise	2100 Nov 26 03:31	18°♌55'57	
	2096 Jan 26 21:37	0°♂			2100 Dec 12 02:52	0°♂	
asc. node	2096 Feb 25 12:54	21°♂♂53'13		desc. node	2100 Dec 17 21:05	4°♂01'50	
	2096 Mar 07 16:58	0°♂					
	2096 Apr 19 02:26	0°♂					
	2096 Jun 02 07:16	0°♂					
evening set	2096 Jun 09 19:53	4°♂♂59'37					
	2096 Jul 18 02:27	0°♂					
conjunction	2096 Jul 29 05:26	7°♂♂10'11	1°06'47				
minimum elong	2096 Jul 29 04:48	7°♂♂09'11	1°06'46				
max. Earth dist.	2096 Aug 07 02:59	12°♂♂52'43	2.66003 AU				
	2096 Sep 02 23:00	0°♎					
morning rise	2096 Sep 13 05:05	6°♎30'49					
	2096 Oct 20 06:57	0°♌					
	2096 Dec 06 19:12	0°♌					
	2097 Jan 23 17:30	0°♂					
desc. node	2097 Mar 13 23:16	29°♂♂50'02					
	2097 Mar 14 06:05	0°♂					
	2097 May 09 13:53	0°♂					
retrograde	2097 Jun 30 22:45	13°♂♂48'03					
opposition	2097 Jul 31 03:37	8°♂♂46'49	-6°-37'-15				
greatest brilliancy	2097 Aug 01 05:38	8°♂♂29'09	-2.8m				
min. Earth dist.	2097 Aug 03 18:10	7°♂♂48'08	0.38187 AU				
direct	2097 Aug 31 06:58	3°♂♂21'53					
	2097 Nov 11 19:58	0°♂					
	2097 Dec 29 00:58	0°♂					
asc. node	2098 Jan 12 10:35	9°♂♂37'09					
	2098 Feb 11 17:42	0°♂					
	2098 Mar 28 16:27	0°♂					
	2098 May 13 14:52	0°♂					
	2098 Jun 29 11:47	0°♂					
evening set	2098 Jul 20 12:26	13°♂♂20'54					
	2098 Aug 15 18:26	0°♎					
max. Earth dist.	2098 Aug 30 05:10	9°♎11'07	2.67501 AU				
conjunction	2098 Sep 04 12:02	12°♎33'10	1°03'58				
minimum elong	2098 Sep 04 12:47	12°♎34'22	1°03'58				
	2098 Oct 01 18:11	0°♌					
morning rise	2098 Oct 18 19:20	11°♌00'13					
	2098 Nov 16 21:55	0°♌					
	2098 Dec 31 23:35	0°♂					
desc. node	2099 Jan 29 22:29	19°♂♂39'36					
	2099 Feb 14 00:00	0°♂					
	2099 Mar 29 04:49	0°♂					
	2099 May 11 06:04	0°♂					
	2099 Jun 25 06:24	0°♂					
	2099 Aug 26 01:40	0°♂					
retrograde	2099 Sep 13 23:01	2°♂♂29'23					
	2099 Oct 02 17:59	30°♂♂♂					
min. Earth dist.	2099 Oct 10 18:41	27°♂♂42'30	0.41921 AU				
greatest brilliancy	2099 Oct 17 08:54	25°♂♂35'18	-2.6m				
opposition	2099 Oct 18 08:06	25°♂♂16'33	-2°-37'-28				
direct	2099 Nov 18 11:43	19°♂♂20'25					
asc. node	2099 Nov 30 09:59	20°♂♂15'13					
	2100 Jan 02 03:46	0°♂					
	2100 Mar 01 19:44	0°♂					
	2100 Apr 21 15:49	0°♂					
	2100 Jun 09 22:19	0°♂					