retrograde	600 Feb 08 j 05:44	2°M56'35		retrograde	606 Apr 17 j 16:39	10° る 28'49	
	600 Apr 12 j 21:27	30° ₹		opposition	606 Jun 27 j 16:40	7° る 09'53	0°12'31
opposition	600 Apr 17 j 13:38	29° ₽ 39'05	2°41'02	min. Earth dist.	606 Jun 27 j 22:44	7° る 08'46	9.03199 AU
min. Earth dist.	600 Apr 17 j 15:03	29° £ 38'49	8.98977 AU	direct	606 Sep 06 j 00:54	3° る 51'58	
direct	600 Jun 27 j 20:36	26° ♀ 17'15		desc. node	606 Nov 14 j 18:40	7° る 35'11	
	600 Sep 06 j 17:59	0° M ,		evening set	606 Dec 14 j 23:04	10° පි 51'00	
evening set	600 Oct 09 j 06:41	3°M29'06		C	J		
C	J			conjunction	606 Dec 31 j 14:33	12° る 48'38	-0°03'30
conjunction	600 Oct 25 j 23:11	5°M26'27	2°06'44	minimum elong	606 Dec 31 j 14:33	12° る 48'38	0°03'30
minimum elong	600 Oct 25 j 23:13	5°M26'28	2°06'44	behind sun begin	606 Dec 31 j 07:37	12° ♂ 46'36	
max. Earth dist.	600 Oct 25 j 20:30	5°M25'40	11.02330 AU	behind sun end	606 Dec 31 j 21:28	12° る 50'39	
morning rise	600 Nov 11 j 12:44	7°M22'58		max. Earth dist.	606 Dec 31 j 08:03	12° る 46'44	10.99844 AU
retrograde	601 Feb 18 j 21:20	14°ML19'34		morning rise	607 Jan 17 j 07:46	14° පි 46'50	
opposition	601 Apr 29 j 15:40	11°ML02'26	2°27'18	retrograde	607 Apr 29 j 22:25	21°る57'30	
min. Earth dist.	601 Apr 29 j 18:35	11°ML01'53	9.05456 AU	opposition	607 Jul 09 j 22:15	18° る 37'30	-0°21'19
direct	601 Jul 10 j 01:10	7° M 41'40		min. Earth dist.	607 Jul 10 j 03:40	18° る 36'29	8.95939 AU
evening set	601 Oct 20 j 17:53	14° M 47'56		direct	607 Sep 17 j 19:27	15° る 19'27	
C	601 Oct 22 j 11:49	15° M ₊		evening set	607 Dec 26 j 12:04	22° る 21'40	
	J			C	,		
conjunction	601 Nov 06 j 08:42	16° M .44'14	1°53'16	conjunction	608 Jan 12 j 04:52	24° る 20'41	-0°31'04
minimum elong	601 Nov 06 j 08:44	16° M .44'15	1°53'16	minimum elong	608 Jan 12 j 04:51	24° る 20'40	0°31'05
max. Earth dist.	601 Nov 06 j 04:34	16°ML43'01	11.07758 AU	max. Earth dist.	608 Jan 11 j 22:13	24°る18'42	10.91615 AU
morning rise	601 Nov 22 j 21:23	18°M39'56		morning rise	608 Jan 29 j 00:10	26° පි 20'30	
retrograde	602 Mar 02 j 11:24	25°M34'56		3	608 Mar 02 j 19:28	0° ≈	
opposition	602 May 11 j 15:44	22°M17'54	2°08'04	retrograde	608 May 11 j 11:59	3° ≈ 38'45	
min. Earth dist.	602 May 11 j 19:09	22°ML17'17	9.09739 AU	opposition	608 Jul 21 j 08:07	0° ≈ 17'31	-0°54'56
direct	602 Jul 22 j 00:43	18°ML58'07	yy, 110	min. Earth dist.	608 Jul 21 j 13:31		8.86803 AU
evening set	602 Nov 01 j 00:42	26°ML00'00		min. Burur dist.	608 Jul 25 j 05:41	30°R₹	0.00000 110
evening sec	0021107 01 j 00.12	20 1100000		direct	608 Sep 28 j 17:15	26°る59'04	
conjunction	602 Nov 17 j 14:43	27°M55'45	1°35'34		608 Nov 29 j 00:52	0°≈	
minimum elong	602 Nov 17 j 14:46	27°M255'45	1°35'33	evening set	609 Jan 06 j 07:20	4°≈06'00	
max. Earth dist.	602 Nov 17 j 10:20		11.10913 AU	evening sec	00) Jun 00 J 07.20	1 70.0000	
morning rise	602 Dec 04 j 03:09	29°M51'06	11.10713710	conjunction	609 Jan 23 j 01:39	6°≈06'42	-0°57'52
morning rise	602 Dec 05 j 10:17	0° ⊼ ¹		minimum elong	609 Jan 23 j 01:37	6°≈06'41	0°57'53
retrograde	603 Mar 14 j 03:53	6° ⊀ ¹46'06		max. Earth dist.	609 Jan 22 j 18:25	6°≈04'31	10.81647 AU
opposition	603 May 23 j 14:48	3°×728'56	1°44'06	morning rise	609 Feb 08 j 23:25	8°≈08'27	10.01017110
min. Earth dist.	603 May 23 j 18:32	3° × ⁷ 28'15	9.11675 AU	morning rise	609 Apr 27 j 07:50	15° ≈	
direct	603 Aug 02 j 21:27	0° ₹ 09'57).110/3/1C	retrograde	609 May 24 j 06:58	15° ≈ 35'29	
evening set	603 Nov 12 j 05:23	7° ∡ 708'51		renograde	609 Jun 20 j 11:50	15°R≈	
evening set	005 1407 12 3 05.25	7 2 0031		opposition	609 Aug 02 j 23:05	12°≈12'54	-1°27'00
conjunction	603 Nov 28 j 19:06	9° ∡ 04'28	1°14'16	min. Earth dist.	609 Aug 03 j 04:45		8.76102 AU
minimum elong	603 Nov 28 j 19:08	9° × 704'29	1°14'17	direct	609 Oct 10 j 18:26	8°≈53'46	0.70102110
max. Earth dist.	603 Nov 28 j 14:01		11.11683 AU	direct	610 Jan 08 j 23:00	15° ≈	
morning rise	603 Dec 15 j 08:00	10° × ⁷ 59'56	11.11005 710	evening set	610 Jan 18 j 10:22	16°≈06'54	
retrograde	604 Mar 24 j 21:08	17° × 56'28		evening sec	010 3411 10 1 10.22	10 / 000 5 1	
opposition	604 Jun 03 j 13:47	14° × 38'58	1°16'15	conjunction	610 Feb 04 j 06:45	18° ≈ 09'36	-1°22'43
min. Earth dist.	604 Jun 03 j 18:48	14° × 38'03	9.11203 AU	minimum elong	610 Feb 04 j 06:42	18° ≈ 09'35	
direct	604 Aug 13 j 13:45	11° × ⁷ 20'35).11 2 03 /10	max. Earth dist.	610 Feb 03 j 23:40		10.70277 AU
evening set	604 Nov 22 j 09:35	18° × 17'59		morning rise	610 Feb 21 j 07:13	20°≈13'34	10.70277110
		110)		retrograde	610 Jun 06 j 09:25	27°≈50'22	
conjunction	604 Dec 08 j 23:21	20° х 13′53	0°50'08	opposition	610 Aug 15 j 19:41	24°≈26'16	-1°56'01
minimum elong	604 Dec 08 j 23:23	20°×13'54	0°50'09	min. Earth dist.	610 Aug 16 j 01:12		8.64202 AU
max. Earth dist.	604 Dec 08 j 16:38		11.10046 AU	direct	610 Oct 23 j 03:05	21°≈06'14	5.5.202710
morning rise	604 Dec 25 j 13:23	22° × 11'53	11.10010710	evening set	611 Jan 30 j 22:26	28°≈26'55	
retrograde	605 Apr 05 j 16:08	29°×709'34		troning set	611 Feb 12 j 14:11	0° ∺	
opposition	605 Jun 15 j 14:07	25° × 751'29	0°45'24		311100 12 j 17.11	٠ ٨	
min. Earth dist.	605 Jun 15 j 20:12	25° 🖈 50'22	9.08345 AU	conjunction	611 Feb 16 j 21:30	0° ₩ 31'58	-1°44'20
direct	605 Aug 25 j 06:50	22° 🖈 33'26	2.003 15 110	minimum elong	611 Feb 16 j 21:27	0° X 31'58	
evening set	605 Dec 03 j 14:48	29° 🖈 30'53		max. Earth dist.	611 Feb 16 j 15:36		10.57902 AU
Johnne Sot	605 Dec 07 j 19:19	29 × 30 33		morning rise	611 Mar 06 j 00:55	2°\(\frac{1}{3}\)30'09	10.57702 AU
	505 Dec 07 J 17.17	ÿ O		retrograde	611 Jun 19 j 21:51	10° ¥ 25'36	
conjunction	605 Dec 20 j 05:11	1° る 27'28	0°23'58	opposition	611 Aug 28 j 22:33	7° ₩ 00'01	-2°20'25
minimum elong	605 Dec 20 j 05:11	1 32728 1° 3 27'28	0°23'58	min. Earth dist.	611 Aug 29 j 02:52		8.51561 AU
max. Earth dist.	605 Dec 19 j 21:58		11.06057 AU	direct	611 Nov 04 j 17:43	3° ₩ 38'55	5.51501 AU
morning rise	606 Jan 05 j 20:42	3° ට 23'21	11.0000/ AU	evening set	612 Feb 12 j 20:49	11° X 08'15	
morning 1150	000 Jun 00 J 20.42	5 02424		evening set	012100 12 J 20.49	11 /(0013	

conjunction	612 Feb 29 j 22:59	13°) 15′54	-2°01'27	min. Earth dist.	617 Nov 18 j 10:20	29° 8 19'31	7.97842 AU
minimum elong	612 Feb 29 j 22:56	13°) 15′54	2°01'27	direct	618 Jan 23 j 23:54	25° 8 49'58	
max. Earth dist.	612 Feb 29 j 18:26		10.45085 AU		618 Apr 03 j 23:55	Π $^{\circ}0$	
morning rise	612 Mar 18 j 05:40	15° ¥ 25′02		evening set	618 May 08 j 05:22	4° Ⅱ 05'21	
retrograde	612 Jul 02 j 19:27	23° ∺ 22'37					
opposition	612 Sep 10 j 07:57	19° ¥ 55'36		conjunction	618 May 26 j 08:24	6° Ⅲ 27'01	
min. Earth dist.	612 Sep 10 j 10:43		8.38832 AU	minimum elong	618 May 26 j 08:27	6° Ⅲ 27′02	
direct	612 Nov 16 j 14:00	16° ∺ 33'18		max. Earth dist.	618 May 26 j 15:03		9.97321 AU
evening set	613 Feb 25 j 06:08	24° ₩ 11'57		morning rise	618 Jun 13 j 12:36	8° Ⅱ 49'06	
				retrograde	618 Sep 27 j 03:26	17° Ⅱ 10'39	
conjunction	613 Mar 14 j 11:53	26°) 22′22	-2°12'49	opposition	618 Dec 02 j 22:36	13° Ⅱ 40'47	-1°20'02
minimum elong	613 Mar 14 j 11:52	26°) 22′22	2°12'48	min. Earth dist.	618 Dec 02 j 16:55	13° Ⅱ 41'58	7.97728 AU
max. Earth dist.	613 Mar 14 j 08:37	26° ∺ 21′20	10.32553 AU	direct	619 Feb 07 j 13:42	10° Ⅱ 11′20	
morning rise	613 Mar 31 j 22:22	28° ∺ 34'19		evening set	619 May 23 j 11:55	18° Ⅲ 28'34	
	613 Apr 12 j 15:07	0 ° Υ					
retrograde	613 Jul 16 j 23:26	6° Ƴ 41'34		conjunction	619 Jun 10 j 16:53	20° Ⅲ 50'31	-0°48'24
opposition	613 Sep 23 j 23:55	3° Ƴ 13'15	-2°48'53	minimum elong	619 Jun 10 j 16:55	20° Ⅲ 50′32	0°48'24
min. Earth dist.	613 Sep 24 j 01:15	3° Y 12′59	8.26752 AU	max. Earth dist.	619 Jun 11 j 00:56	20° Ⅲ 53′09	9.98835 AU
	613 Nov 16 j 03:02	30° Ŗ ₩		morning rise	619 Jun 28 j 21:37	23° Ⅲ 12'24	
direct	613 Nov 29 j 19:45	29°) 49′36			619 Sep 01 j 08:26	0 \circ \odot	
	613 Dec 13 j 11:32	0 ° Υ		retrograde	619 Oct 11 j 15:02	1° 5 28'22	
evening set	614 Mar 11 j 02:26	7° Ƴ 37'42			619 Nov 21 j 08:11	30°RⅡ	
				opposition	619 Dec 17 j 05:08	27° Ⅲ 59'21	-0°40'08
conjunction	614 Mar 28 j 12:20	9° Ƴ 50'57		min. Earth dist.	619 Dec 16 j 22:44	28° Ⅱ 00'41	8.00756 AU
minimum elong	614 Mar 28 j 12:20	9° Ƴ 50'57		direct	620 Feb 22 j 04:18	24° Ⅲ 29'27	
max. Earth dist.	614 Mar 28 j 10:17	9° Y ′50'18	10.21038 AU		620 May 15 j 01:45	0ංම	
morning rise	614 Apr 15 j 02:59	12° Ƴ 05'44		evening set	620 Jun 06 j 17:08	2° 5 46'07	
retrograde	614 Jul 31 j 09:43	20° Y 21′06					
opposition	614 Oct 07 j 21:46	16° Ƴ 51'45		conjunction	620 Jun 24 j 22:16	5° 5 07'20	-0°15'21
min. Earth dist.	614 Oct 07 j 22:06	16° Ƴ 51'41	8.16021 AU	minimum elong	620 Jun 24 j 22:16	5° 5 07'21	0°15'21
direct	614 Dec 13 j 09:56	13° Y 26'42		behind sun begin	620 Jun 24 j 20:36	5° 5 06'48	
evening set	615 Mar 25 j 09:19	21° Y 23'46		behind sun end	620 Jun 24 j 23:57	5° 5 07'53	
				max. Earth dist.	620 Jun 25 j 06:53	5° © 10'08	10.03403 AU
conjunction	615 Apr 11 j 23:48	23° Ƴ 39'48		morning rise	620 Jul 13 j 01:50	7° 5 28'04	
minimum elong	615 Apr 11 j 23:50	23° Y 39'48	2°14'03	retrograde	620 Oct 24 j 21:00	15° © 36'25	
max. Earth dist.	615 Apr 11 j 23:36		10.11219 AU	asc. node	620 Dec 14 j 12:41	13° 5 25'02	
morning rise	615 Apr 29 j 18:40	25° Y 57'13		opposition	620 Dec 30 j 08:27	12° © 08'34	0°01'45
	615 Jun 02 j 23:56	9° 8		min. Earth dist.	620 Dec 30 j 01:59	12° © 09'54	8.06717 AU
retrograde	615 Aug 15 j 00:38	4° 8 18'29		direct	621 Mar 07 j 18:29	8° 5 38'30	
opposition	615 Oct 22 j 00:21	0° 8 48'25		evening set	621 Jun 21 j 18:25	16°952'26	
min. Earth dist.	615 Oct 21 j 23:28	_	8.07285 AU				
	615 Oct 31 j 22:41	30° Ŗ ♈		conjunction	621 Jul 09 j 21:53	19° © 11'59	
direct	615 Dec 27 j 07:40	27° Y '22'00		minimum elong	621 Jul 09 j 21:52	19° © 11'59	0°18'17
	616 Feb 19 j 18:00	0° 8		max. Earth dist.	621 Jul 10 j 06:13		10.10709 AU
evening set	616 Apr 08 j 01:27	5° 8 26'59		morning rise	621 Jul 27 j 22:41	21° © 30'40	
				retrograde	621 Nov 07 j 18:40	29° © 29'59	
conjunction	616 Apr 25 j 20:39	7° 8 45'29		opposition	622 Jan 13 j 07:06	26°503'33	0°42'47
minimum elong	616 Apr 25 j 20:42	7° 8 45'30		min. Earth dist.	622 Jan 13 j 01:03	26°504'47	8.15217 AU
max. Earth dist.	616 Apr 25 j 22:46		10.03705 AU	direct	622 Mar 22 j 07:00	22°533'43	
morning rise	616 May 13 j 19:28	10° 8 05'10		_	622 Jun 30 j 18:19	0 \circ Ω	
_	616 Jun 25 j 03:48	15° 8		evening set	622 Jul 06 j 12:57	0° Ω 42'58	
retrograde	616 Aug 28 j 18:25	18° 8 29'34					
opposition	616 Nov 04 j 06:33	14° 8 59'09		conjunction	622 Jul 24 j 13:09	3° Ω 00′05	
min. Earth dist.	616 Nov 04 j 04:02		8.01095 AU	minimum elong	622 Jul 24 j 13:06	3° Ω 00'04	
	616 Nov 04 j 02:27	15° ₹ 8		max. Earth dist.	622 Jul 24 j 20:35		10.20280 AU
direct	617 Jan 09 j 13:03	11° 8 31'31		morning rise	622 Aug 11 j 09:48	5° Ω 16′03	
	617 Mar 13 j 17:48	15° 8		retrograde	622 Nov 21 j 07:04	13° Ω 05'41	
evening set	617 Apr 23 j 00:49	19° 8 42'43		opposition	623 Jan 27 j 00:25	9° Ω 40'47	
	(1734 1110000	2201 2020	104404	min. Earth dist.	623 Jan 26 j 18:38		8.25723 AU
conjunction	617 May 11 j 00:25	22° 8 03'11		direct	623 Apr 05 j 15:01	6° Ω 11'34	
minimum elong	617 May 11 j 00:28	22° 8 03'13		evening set	623 Jul 20 j 22:23	14° Ω 14'31	
max. Earth dist.	617 May 11 j 04:58	22° 8 04'41	9.98976 AU		623 Jul 27 j 00:40	15° Ω	
morning rise	617 May 29 j 02:32	24° 8 24'29					
	617 Jul 17 j 08:35	0°II		conjunction	623 Aug 07 j 18:10	16° Ω 28'40	
retrograde	617 Sep 12 j 11:55	2° Ⅱ 48'59		minimum elong	623 Aug 07 j 18:07	16° Ω 28'39	
.	617 Nov 10 j 06:03	30°R8	1055400	max. Earth dist.	623 Aug 08 j 00:45		10.31538 AU
opposition	617 Nov 18 j 14:35	29° 8 18'38	-1~55'03	morning rise	623 Aug 25 j 09:45	18° Ω 41'28	

retrograde opposition	623 Dec 04 j 11:39 624 Feb 09 j 11:41	26° \O 21'23 22° \O 58'03	1°52'43	min. Earth dist. direct	630 Apr 24 j 09:57 630 Jul 04 j 17:18	5°M56'35 2°M36'06	9.03369 AU
min. Earth dist.	624 Feb 09 j 05:54	22° Ω 59'13	8.37613 AU	evening set	630 Oct 15 j 18:44	9° M 45'04	
direct	624 Apr 18 j 16:24	19° £ 29'46		Č	,		
evening set	624 Aug 02 j 21:37	27° Ω 25'15		conjunction	630 Nov 01 j 10:24	11°M41'50	2°00'03
				minimum elong	630 Nov 01 j 10:26	11°M41'50	2°00'02
conjunction	624 Aug 20 j 12:26	29° Ω 36'14	1°42'24	max. Earth dist.	630 Nov 01 j 07:45	11°ML41'03	11.06188 AU
minimum elong	624 Aug 20 j 12:23	29° Ω 36′13	1°42'24	morning rise	630 Nov 17 j 23:15	13° M 37'51	
max. Earth dist.	624 Aug 20 j 18:31		10.43844 AU		630 Nov 30 j 02:41	15°M	
	624 Aug 23 j 16:38	0° m ∕		retrograde	631 Feb 25 j 12:14	20°M33'35	
morning rise	624 Sep 06 j 22:31	1° m 45'44		opposition	631 May 06 j 10:07	17° M 17'01	2°17'34
retrograde	624 Dec 16 j 09:45	9° Mp 16'14	2010116	min. Earth dist.	631 May 06 j 13:29	17°M16'24	9.08675 AU
opposition	625 Feb 21 j 16:37	5° My 54'26	2°18'16	T' A	631 Jun 09 j 14:59	15°RM	
min. Earth dist. direct	625 Feb 21 j 11:21	5° Mp 55'29	8.50230 AU	direct	631 Jul 16 j 17:39	13°M57'16 15°M	
evening set	625 May 02 j 09:32 625 Aug 16 j 10:00	2° Mp 27'18 10° Mp 14'38		evening set	631 Aug 22 j 05:22 631 Oct 27 j 03:58	21°ML01'17	
evening set	023 Aug 10 j 10.00	10 11/14/30		evening set	031 Oct 27 J 03.38	21 116011/	
conjunction	625 Sep 02 j 19:39	12° m 22'25	2°00'23	conjunction	631 Nov 12 j 18:16	22°M57'15	1°44'15
minimum elong	625 Sep 02 j 19:36	12° m) 22'24	2°00'23	minimum elong	631 Nov 12 j 18:19	22°M57'16	1°44'14
max. Earth dist.	625 Sep 03 j 01:01	•	10.56540 AU	max. Earth dist.	631 Nov 12 j 13:09		11.10287 AU
morning rise	625 Sep 20 j 00:17	14° m) 28'42		morning rise	631 Nov 29 j 06:45	24°M52'44	
retrograde	625 Dec 28 j 23:02	21° m 50'29		•	632 Jan 20 j 15:21	0° ∡ ¹	
opposition	626 Mar 06 j 15:42	18° m 30'08	2°36'21	retrograde	632 Mar 08 j 03:09	1° ∡ ¹47'44	
min. Earth dist.	626 Mar 06 j 11:41	18° m y 30'55	8.62922 AU		632 Apr 26 j 11:10	30°RM₊	
direct	626 May 15 j 20:22	15° m 04'18		opposition	632 May 17 j 09:57	28°MJ31'07	1°55'44
evening set	626 Aug 29 j 11:20	22° Mp 43'09		min. Earth dist.	632 May 17 j 15:10	28°M30'10	9.11493 AU
				direct	632 Jul 27 j 16:49	25°M12'08	
conjunction	626 Sep 15 j 15:57	24° Mp 47'55	2°12'13		632 Oct 17 j 08:13	0° ∡ ¹	
minimum elong	626 Sep 15 j 15:56	24° m 47'54	2°12'13	evening set	632 Nov 06 j 10:04	2° ∡ 12'36	
max. Earth dist.	626 Sep 15 j 19:59	-	10.69002 AU		(22.)1 22:22.44	40.700016	102422
morning rise	626 Oct 02 j 15:42	26° m 51'14		conjunction	632 Nov 22 j 23:44	4° ₹ 08'16	1°24'32
retrograde	626 Oct 30 j 16:26 627 Jan 10 j 05:54	0° 죠 4° 요 05'16		minimum elong max. Earth dist.	632 Nov 22 j 23:47 632 Nov 22 j 16:55	4° ₰ 08'16 4° ₰ 06'16	1°24'32 11.11875 AU
opposition	627 Mar 19 j 09:07		2°46'44	morning rise	632 Dec 09 j 12:28	6° ₹ 03'40	11.116/3 AU
min. Earth dist.	627 Mar 19 j 06:57	0° <u>₽</u> 46'37	8.75093 AU	retrograde	633 Mar 19 j 19:07	12° 🗷 59'33	
iiiii. Eartii dist.	627 Mar 29 j 12:20	30°R, My	0.75075710	opposition	633 May 29 j 09:17	9° × ⁷ 42'33	1°29'35
direct	627 May 28 j 23:48	27° m/21'43		min. Earth dist.	633 May 29 j 15:08	9° × ⁷ 41'28	9.11784 AU
	627 Jul 26 j 09:46	0∘ <u>⊽</u>		direct	633 Aug 08 j 12:25	6° ∡ ¹24'06	
evening set	627 Sep 11 j 02:14	4° £ 52'11		evening set	633 Nov 17 j 14:41	13° ∡ ¹22'25	
conjunction	627 Sep 28 j 02:19	6° ≙ 54'15	2°17'49	conjunction	633 Dec 04 j 04:27	15° ∡ 18'12	1°01'38
minimum elong	627 Sep 28 j 02:18	6° ≙ 54'15	2°17'50	minimum elong	633 Dec 04 j 04:29	15° ∡ 18'13	1°01'38
max. Earth dist.	627 Sep 28 j 03:58		10.80676 AU	max. Earth dist.	633 Dec 03 j 21:35		11.10957 AU
morning rise	627 Oct 14 j 22:04	8° ≏ 55'02		morning rise	633 Dec 20 j 17:52	17° ∡ 13'58	
retrograde	628 Jan 22 j 06:38	16° ♀ 02'25	20.40122	retrograde	634 Mar 31 j 14:18	24° 🖈 12'20	1000101
opposition	628 Mar 30 j 21:10	12° £ 44′23	2°49'32	opposition	634 Jun 10 j 09:22	20° ₹ 54'39	1°00'01
min. Earth dist. direct	628 Mar 30 j 20:23 628 Jun 09 j 19:19	12° ♀ 44'32 9° ♀ 21'14	8.86207 AU	min. Earth dist. direct	634 Jun 10 j 15:17 634 Aug 20 j 06:29	20° ₹ 53'34 17° ₹ 36'30	9.09597 AU
evening set	628 Sep 22 j 07:30	9 = 21 14 16° £ 43'43		evening set	634 Nov 28 j 19:32	24° 🗷 34'07	
J. Ching Set	520 50p 22 j 07.50	10 -15 -15		croning sec	55 1 1 1 5 4 2 6 J 17.52	21 6 5707	
conjunction	628 Oct 09 j 03:56	18° ≏ 43'32	2°17'23	conjunction	634 Dec 15 j 09:45	26° ∡ ¹30'27	0°36'18
minimum elong	628 Oct 09 j 03:56	18° ≏ 43'32		minimum elong	634 Dec 15 j 09:46	26° ∡ ³30′27	0°36'18
max. Earth dist.	628 Oct 09 j 03:43	18° ≏ 43'28	10.91058 AU	max. Earth dist.	634 Dec 15 j 02:21	26° ∡ °28'16	11.07600 AU
morning rise	628 Oct 25 j 20:35	20° ≏ 42'14		morning rise	635 Jan 01 j 00:26	28° ∡ ¹26'59	
retrograde	629 Feb 02 j 02:12	27° ≏ 44'17			635 Jan 14 j 19:38	0° ට	
opposition	629 Apr 12 j 04:43	24° ≏ 27'00	2°45'12	retrograde	635 Apr 12 j 13:30	5° る 29'22	
min. Earth dist.	629 Apr 12 j 04:49	24° ≙ 26'59	8.95771 AU	opposition	635 Jun 22 j 11:08	2° る 10'45	0°27'57
direct	629 Jun 22 j 10:06	21° ≙ 05'07		min. Earth dist.	635 Jun 22 j 17:44	2° る 09'32	9.05037 AU
evening set	629 Oct 04 j 04:27	28° £ 20′21			635 Jul 24 j 18:36	30°R ✓	
	629 Oct 18 j 08:00	0° M		direct	635 Aug 31 j 23:19	28° ₹ 52'37	
	(20.0.4.20.:22.07	00 m 10100	2011117	i	635 Oct 08 j 05:41	0°る	
conjunction	629 Oct 20 j 22:07		2°11'17	evening set	635 Dec 10 j 02:38	5° る 51'07	
minimum elong max. Earth dist.	629 Oct 20 j 22:08	0°ML18'24	2°11'17 10.99688 AU	conjunction	635 Dec. 26 ; 17-22	7° る 48'20	0°09'23
max. Earth dist.	629 Oct 20 j 20:54 629 Nov 06 j 12:23	2°M15'28	10.77000 AU	minimum elong	635 Dec 26 j 17:33 635 Dec 26 j 17:33	7°る48'20 7°る48'20	0°09'23 0°09'23
retrograde	630 Feb 13 j 20:55	9°M13'36		behind sun begin	635 Dec 26 j 11:41	7° ठ 46'37	0 0/23
opposition	630 Apr 24 j 08:41	5°M56'49	2°34'19	behind sun end	635 Dec 26 j 23:26	7° る 50'03	
-FL		- 11000 17	/	a a a a a a a a a a a a a a a a a a a		. 3000	

max. Earth dist.	635 Dec 26 j 08:55	70=7.51.47	11.01940 AU	morning rise	642 Mar 25 j 23:47	22° ¥ 44'41	
morning rise	636 Jan 12 j 10:01	9° る 46'01	11.01940 AU	morning rise	642 Jun 10 j 01:48	22)(44 41 0° Υ	
retrograde	636 Apr 23 j 15:10	16°る53'56		retrograde	642 Jul 10 j 18:26	0° Υ 48'14	
desc. node	636 May 02 j 08:22	16° ろ 50'17		retrograde	642 Aug 10 j 17:12	30°R ₩	
opposition	636 Jul 03 j 15:24	13° る 34'10	-0°05'36	opposition	642 Sep 18 j 02:33	27° ¥ 19'57	-2°45'19
min. Earth dist.	636 Jul 03 j 22:52		8.98279 AU	min. Earth dist.	642 Sep 18 j 04:39		8.30576 AU
direct	636 Sep 11 j 17:31	10°る15'47	0.50275110	direct	642 Nov 24 j 04:10	23° X 56'25	0.500,0110
evening set	636 Dec 20 j 13:25	17° る 16'49			643 Feb 19 j 08:55	0°Υ	
		C		evening set	643 Mar 05 j 02:23	1° Υ 40'49	
conjunction	637 Jan 06 j 05:30	19° る 15'16	-0°18'20	C	J		
minimum elong	637 Jan 06 j 05:29	19° る 15'16		conjunction	643 Mar 22 j 10:28	3° Y ′52'57	-2°16'10
max. Earth dist.	637 Jan 05 j 20:52	19° る 12'43	10.94185 AU	minimum elong	643 Mar 22 j 10:28	3° Y ′52'57	
morning rise	637 Jan 22 j 23:58	21° る 14'27		max. Earth dist.	643 Mar 22 j 09:19	3° Y ′52'35	10.24731 AU
retrograde	637 May 06 j 00:12	28° る 29'26		morning rise	643 Apr 08 j 23:11	6° Ƴ 06'37	
opposition	637 Jul 15 j 23:30	25° る 08'19	-0°39'30	retrograde	643 Jul 25 j 02:55	14° Y 19'06	
min. Earth dist.	637 Jul 16 j 06:34	25° る 06'59	8.89571 AU	opposition	643 Oct 01 j 22:05	10° Ƴ 49'48	-2°50'48
direct	637 Sep 23 j 15:30	21° る 49'29		min. Earth dist.	643 Oct 01 j 22:02	10° Ƴ 49'48	8.19503 AU
evening set	638 Jan 01 j 05:30	28° る 54'34		direct	643 Dec 07 j 14:10	7° Y 25'06	
	638 Jan 10 j 09:33	0° ≈		evening set	644 Mar 18 j 04:45	15° Ƴ 18'42	
conjunction	638 Jan 17 j 23:13	0° ≈ 54'38	-0°45'39	conjunction	644 Apr 04 j 17:14	17° Y 33'38	-2°16'30
minimum elong	638 Jan 17 j 23:12	0° ≈ 54'37	0°45'40	minimum elong	644 Apr 04 j 17:15	17° Y 33'39	
max. Earth dist.	638 Jan 17 j 15:43	0° ≈ 52'22	10.84609 AU	max. Earth dist.	644 Apr 04 j 18:26	17° Ƴ 34'02	10.14420 AU
morning rise	638 Feb 03 j 19:51	2° ≈ 55'38		morning rise	644 Apr 22 j 10:02	19° Ƴ 50'01	
retrograde	638 May 18 j 16:54	10° ≈ 19′01		retrograde	644 Aug 07 j 17:39	28° Y ′09'33	
opposition	638 Jul 28 j 12:11	6° ≈ 56′25	-1°12'30	opposition	644 Oct 14 j 23:06	24° Y 39'34	-2°46'37
min. Earth dist.	638 Jul 28 j 18:08	6° ≈ 55'17	8.79225 AU	min. Earth dist.	644 Oct 14 j 21:02	24° Y 39'59	8.10159 AU
direct	638 Oct 05 j 15:19	3° ≈ 36'57		direct	644 Dec 20 j 07:29	21° Y 13'43	
evening set	639 Jan 13 j 04:55	10° ≈ 47'39		evening set	645 Apr 01 j 17:16	29° Ƴ 15'45	
					645 Apr 07 j 11:07	$0^{\circ}B$	
conjunction	639 Jan 30 j 00:32	12° ≈ 49'38					
minimum elong	639 Jan 30 j 00:29	12° ≈ 49'37		conjunction	645 Apr 19 j 10:23	1° 8 33'18	
max. Earth dist.	639 Jan 29 j 17:47		10.73566 AU	minimum elong	645 Apr 19 j 10:26	1° 8 33'19	
morning rise	639 Feb 15 j 23:39	14° ≈ 52'44		max. Earth dist.	645 Apr 19 j 13:33	_	10.06179 AU
	639 Feb 17 j 00:05	15° ≈		morning rise	645 May 07 j 07:21	3° 8 52'08	
retrograde	639 May 31 j 17:05	22° ≈ 25'35		retrograde	645 Aug 22 j 12:20	12° 8 16'06	
opposition	639 Aug 10 j 06:10	19° ≈ 01'28		opposition	645 Oct 29 j 04:23	8° 8 45'48	
min. Earth dist.	639 Aug 10 j 11:08	19° ≈ 00'31	8.67634 AU	min. Earth dist.	645 Oct 29 j 00:56		8.03150 AU
direct	639 Oct 17 j 20:10	15°≈41'11		direct	646 Jan 03 j 09:21	5° 8 18'52	
evening set	640 Jan 25 j 12:56	22° ≈ 58'55		evening set	646 Apr 16 j 14:18	13° 8 27'57	
. ,.	(40 F 1 11 10 44	25002106	102.4152		646 Apr 28 j 10:11	15° 8	
conjunction	640 Feb 11 j 10:44	25°≈03'06		:	(ACM 04 : 11.50	150 47140	1952125
minimum elong max. Earth dist.	640 Feb 11 j 10:41 640 Feb 11 j 04:02	25°≈03'05		conjunction	646 May 04 j 11:56 646 May 04 j 12:00	15° 8 47'42 15° 8 47'43	
morning rise	640 Feb 28 j 12:47	27°≈08'36	10.61498 AU	minimum elong max. Earth dist.	646 May 04 j 16:48	_	1 33 20 10.00548 AU
morning risc	640 Mar 24 j 09:38	0° ∺		morning rise	646 May 22 j 12:38	18° 8 08'26	10.00348 AU
retrograde	640 Jun 13 j 02:02	4° ∺ 51'38		retrograde	646 Sep 06 j 07:10	26° 8 33'48	
opposition	640 Aug 22 j 06:27	1° ∺ 26'01	-2°09'57	opposition	646 Nov 12 j 12:26	23° 8 03'37	-2°08'33
min. Earth dist.	640 Aug 22 j 10:57	1° ∺ 25'09		min. Earth dist.	646 Nov 12 j 07:58	23° 8 04'33	7.98945 AU
	640 Sep 10 j 08:57	30°R≈		direct	647 Jan 17 j 18:31	19° 8 35'45	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
direct	640 Oct 29 j 06:43	28° ≈ 04'45		evening set	647 May 01 j 17:32	27° 8 49'55	
	640 Dec 15 j 11:43	0°) €		8	647 May 18 j 08:55	0°П	
evening set	641 Feb 06 j 06:32	5°) € 30'42			, ,		
	·			conjunction	647 May 19 j 18:57	0° Ⅱ 11'10	-1°30'48
conjunction	641 Feb 23 j 07:06	7° ¥ 37'19	-1°54'15	minimum elong	647 May 19 j 19:01	0° Ⅱ 11'11	1°30'47
minimum elong	641 Feb 23 j 07:03	7°) 37′18	1°54'15	max. Earth dist.	647 May 20 j 01:15	0° Ⅱ 13'14	9.97902 AU
max. Earth dist.	641 Feb 23 j 01:24		10.48930 AU	morning rise	647 Jun 06 j 22:24	2° Ⅱ 33'03	
morning rise	641 Mar 12 j 12:25	9°){ 45′26		retrograde	647 Sep 21 j 00:03	10° Ⅱ 56'40	
retrograde	641 Jun 26 j 18:37	17° ¥ 38'56		opposition	647 Nov 26 j 21:20	7° Ⅱ 26'59	-1°36'29
opposition	641 Sep 04 j 13:19	14° ∺ 11'54	-2°31'13	min. Earth dist.	647 Nov 26 j 16:04		7.97827 AU
min. Earth dist.	641 Sep 04 j 16:56	14° ∺ 11'12	8.42718 AU	direct	648 Feb 01 j 07:57	3° Ⅱ 58′20	
direct	641 Nov 11 j 00:44	10°) 49′32		evening set	648 May 16 j 00:04	12° Ⅱ 15'15	
evening set	642 Feb 19 j 10:54	18°) 24'31					
				conjunction	648 Jun 03 j 04:07	14° Ⅱ 37'09	
conjunction	642 Mar 08 j 14:55	20°) 33′50		minimum elong	648 Jun 03 j 04:10	14° Ⅲ 37′10	
minimum elong	642 Mar 08 j 14:53	20°) 33′49		max. Earth dist.	648 Jun 03 j 11:35	14° Ⅲ 39'36	9.98410 AU
max. Earth dist.	642 Mar 08 j 11:12	20° ∺ 32'39	10.36458 AU	morning rise	648 Jun 21 j 08:55	16° Ⅱ 59'15	

	(40 0-+ 04 : 12-26	250T10112		:	(54 A 20 : 00-14	70 m 01150	1952100
retrograde	648 Oct 04 j 13:36	25° Ⅱ 18'12	0050124	conjunction	654 Aug 28 j 09:14	7° Mp 01'50	1°53'09
opposition	648 Dec 10 j 05:12	21° Ⅱ 49′18		minimum elong	654 Aug 28 j 09:11	7° Mp 01'49	1°53'08
min. Earth dist.	648 Dec 09 j 23:06		7.99850 AU	max. Earth dist.	654 Aug 28 j 13:04		10.50519 AU
direct	649 Feb 14 j 23:35	18° Ⅱ 20'08		morning rise	654 Sep 14 j 16:24	9° m 09'38	
evening set	649 May 31 j 06:39	26° Ⅱ 37'19		retrograde	654 Dec 23 j 20:06	16° Mp 35'40	
		—		opposition	655 Mar 01 j 08:39	13° m) 14'46	2°29'18
conjunction	649 Jun 18 j 11:48	28° ∏ 58'55		min. Earth dist.	655 Mar 01 j 05:32	13° Mp 15'22	8.56738 AU
minimum elong	649 Jun 18 j 11:50	28° Ⅱ 58'55		direct	655 May 10 j 08:28	9° m)48'17	
max. Earth dist.	649 Jun 18 j 20:03	29° Ⅱ 01'36	10.01972 AU	evening set	655 Aug 24 j 03:58	17° m) 31'25	
	649 Jun 26 j 07:20	0 \circ					
morning rise	649 Jul 06 j 16:15	1° © 20'13		conjunction	655 Sep 10 j 10:46	19° m 37'36	2°07'45
retrograde	649 Oct 18 j 21:59	9° 5 32'10		minimum elong	655 Sep 10 j 10:43	19° m 37'36	2°07'45
opposition	649 Dec 24 j 10:20	6° ॐ 04'19	-0°17'03	max. Earth dist.	655 Sep 10 j 13:21	19° m 38'24	10.62740 AU
min. Earth dist.	649 Dec 24 j 03:39	6° 5 05'41	8.04776 AU	morning rise	655 Sep 27 j 12:51	21°My42'21	
direct	650 Mar 01 j 15:11	2° 5 34'52		retrograde	656 Jan 05 j 06:05	29° Mp 00'13	
asc. node	650 May 27 j 05:56	8° © 28'54		opposition	656 Mar 13 j 04:51	25° m 40'25	2°43'09
evening set	650 Jun 15 j 10:25	10° © 50'08		min. Earth dist.	656 Mar 13 j 02:11	25° Mp 40'56	8.68804 AU
				direct	656 May 22 j 16:19	22° m 15'05	
conjunction	650 Jul 03 j 14:49	13° © 10'27	0°03'23	evening set	656 Sep 04 j 23:47	29° m 49'44	
minimum elong	650 Jul 03 j 14:49	13° © 10'27	0°03'23		656 Sep 06 j 10:21	0∘ ত	
behind sun begin	650 Jul 03 j 07:30	13° © 08'06					
behind sun end	650 Jul 03 j 22:07	13° © 12'47		conjunction	656 Sep 22 j 02:01	1° ≏ 53'07	2°16'08
max. Earth dist.	650 Jul 03 j 23:07	13° © 13'07	10.08215 AU	minimum elong	656 Sep 22 j 02:00	1° ≏ 53'07	2°16'08
morning rise	650 Jul 21 j 17:04	15° © 30'03		max. Earth dist.	656 Sep 22 j 03:58	1° £ 53'43	10.74447 AU
retrograde	650 Nov 01 j 23:47	23° © 33'29		morning rise	656 Oct 08 j 23:34	3° £ 55′08	
opposition	651 Jan 07 j 11:19	20° © 06'56	0°24'42	retrograde	657 Jan 16 j 10:30	11° ≙ 05'48	
min. Earth dist.	651 Jan 07 j 04:40	20°508'18	8.12164 AU	opposition	657 Mar 25 j 19:23	7° £ 46'58	2°49'18
direct	651 Mar 16 j 04:57	16° 5 37'34		min. Earth dist.	657 Mar 25 j 17:54	7° ≙ 47'15	8.80077 AU
evening set	651 Jun 30 j 08:30	24°9549'02		direct	657 Jun 04 j 15:08	4° ≙ 22'50	
8				evening set	657 Sep 17 j 09:33	11° ≏ 49'17	
conjunction	651 Jul 18 j 10:25	27° © 07'16	0°36'16				
minimum elong	651 Jul 18 j 10:23	27° © 07'15	0°36'15	conjunction	657 Oct 04 j 07:47	13° ≏ 50'13	2°18'20
max. Earth dist.	651 Jul 18 j 18:22	27° © 09'49	10.16668 AU	minimum elong	657 Oct 04 j 07:47	13° ♀ 50'13	2°18'20
morning rise	651 Aug 05 j 08:58	29°\$24'27		max. Earth dist.	657 Oct 04 j 08:37		10.85123 AU
morning rise	651 Aug 10 j 03:01	0°Ω		morning rise	657 Oct 21 j 01:40	15° ≏ 49'56	10.03123110
retrograde	651 Nov 15 j 17:19	7° Ω 18'37		retrograde	658 Jan 28 j 08:33	22° ⊆ 54'40	
opposition	652 Jan 21 j 07:27	3° Ω 53'30	1°04'09	opposition	658 Apr 07 j 05:16	19° £ 36'36	2°48'04
min. Earth dist.	652 Jan 21 j 01:17	3° Ω 54'46	8.21564 AU	min. Earth dist.	658 Apr 07 j 05:31	19° ⊆ 36'33	8.90092 AU
direct	652 Mar 29 j 14:25	0° Ω 24'31	0.21304 AU	direct	658 Jun 17 j 07:31	16° ⊆ 13'37	6.70072 AC
evening set	652 Jul 13 j 22:37	8° Ω 30'33		evening set	658 Sep 29 j 10:15	23° ⊆ 32'28	
evening set	032 Jul 13 J 22.37	0 00000		evening set	030 Sep 23 j 10.13	23 = 32 20	
conjunction	652 Jul 31 j 20:39	10° Ω 46'06	1°06'31	conjunction	658 Oct 16 j 05:08	25° £ 31'25	2°14'40
minimum elong	652 Jul 31 j 20:36	10° Ω 46′05	1°06'30	minimum elong	658 Oct 16 j 05:09	25° ₽ 31'25	2°14'41
max. Earth dist.	652 Aug 01 j 03:54		10.26889 AU	max. Earth dist.	658 Oct 16 j 04:01	25° ₽ 31'05	10.94350 AU
morning rise	652 Aug 18 j 14:29	13° Ω 00′21		morning rise	658 Nov 01 j 20:26	27° ≏ 29'19	
S	652 Sep 04 j 02:51	15° Ω		Z .	658 Nov 24 j 10:42	0° M	
retrograde	652 Nov 28 j 03:06	20° Ω 44'56		retrograde	659 Feb 09 j 02:55	4°M29'28	
opposition	653 Feb 02 j 21:59	17° Ω 21'18	1°39'04	opposition	659 Apr 19 j 11:02	1° M L11'57	2°39'59
min. Earth dist.	653 Feb 02 j 16:59	17° Ω 22'18		min. Earth dist.	659 Apr 19 j 12:48	1°ML11'37	
	653 Mar 07 j 07:00	15°RΩ			659 May 05 j 21:04	30° RΩ	
direct	653 Apr 12 j 18:26	13° Ω 52'57		direct	659 Jun 29 j 17:59	27° ♀ 50'07	
	653 May 19 j 01:31	15° Ω		4.1.001	659 Aug 21 j 19:33	0°M	
evening set	653 Jul 28 j 03:22	21° Ω 52'12		evening set	659 Oct 11 j 03:29	5°ML02'14	
C	,			Ü	,		
conjunction	653 Aug 14 j 20:31	24° Ω 04'41	1°32'31	conjunction	659 Oct 27 j 19:56	6° ™ 59'40	2°05'37
minimum elong	653 Aug 14 j 20:28	24° Ω 04'40	1°32'30	minimum elong	659 Oct 27 j 19:58	6° M 59'41	2°05'37
max. Earth dist.	653 Aug 15 j 02:08	24° Ω 06′27	10.38366 AU	max. Earth dist.	659 Oct 27 j 17:03	6° M 58'49	11.01791 AU
morning rise	653 Sep 01 j 09:02	26° Ω 15'43		morning rise	659 Nov 13 j 09:35	8°M56'17	
-	653 Oct 04 j 02:28	0° m		-	660 Jan 19 j 00:24	15°ML	
retrograde	653 Dec 11 j 04:29	3° m 50'45		retrograde	660 Feb 20 j 18:10	15°M53'18	
opposition	654 Feb 16 j 06:21	0° m/28'33	2°07'48	Ţ	660 Mar 25 j 06:00	15°RM₊	
min. Earth dist.	654 Feb 16 j 02:32	0°m,29'19	8.44436 AU	opposition	660 Apr 30 j 13:21	12°MJ36'05	2°25'42
	654 Feb 22 j 06:57	30°RΩ		min. Earth dist.	660 Apr 30 j 15:41	12°MJ35'39	
direct	654 Apr 26 j 16:11	27° Ω 01'03		direct	660 Jul 10 j 22:38	9°ML15'19	
	654 Jun 27 j 00:03	0° my			660 Oct 09 j 12:08	15° M ₊	
evening set	654 Aug 10 j 21:22	4° m/ 52'32		evening set	660 Oct 21 j 14:49	16°M21'50	
<i>5</i>	.5 . 1 2	4,		<i>5</i>	j		

conjunction	660 Nov 07 j 05:47	18° M ₊18'14	1°51'44	conjunction	667 Jan 13 j 03:16	25° ප 58'48	-0°33'37
minimum elong	660 Nov 07 j 05:50	18° M .18'15	1°51'43	minimum elong	667 Jan 13 j 03:15	25° ප 58'48	0°33'38
max. Earth dist.	660 Nov 07 j 02:28	18° M ₊17'15	11.07170 AU	max. Earth dist.	667 Jan 12 j 20:21	25° る 56'44	10.91157 AU
morning rise	660 Nov 23 j 18:28	20°M14'02		morning rise	667 Jan 29 j 22:48	27° る 58'44	
retrograde	661 Mar 03 j 10:48	27°M09'27			667 Feb 16 i 19:00	0° ≈	
opposition	661 May 12 j 13:41	23°M52'21	2°05'58	retrograde	667 May 13 j 11:02	5° ≈ 17'19	
min. Earth dist.	661 May 12 j 16:31	23°M51'49	9.09128 AU	opposition	667 Jul 23 j 07:38	1°≈56'01	0°57'58
		20°M32'33	9.09126 AU	min. Earth dist.	-		
direct	661 Jul 22 j 23:09			min. Earth dist.	667 Jul 23 j 13:14	1°≈54'57	8.86396 AU
evening set	661 Nov 01 j 21:57	27°M34'39			667 Aug 19 j 20:39	30°Rる	
				direct	667 Sep 30 j 14:57	28° る 37'31	
conjunction	661 Nov 18 j 12:02	29°M30'31	1°33'39		667 Nov 10 j 05:44	0° ≈	
minimum elong	661 Nov 18 j 12:04	29°M30'32	1°33'38	evening set	668 Jan 08 j 06:05	5° ≈ 44'38	
max. Earth dist.	661 Nov 18 j 08:06	29°M29'22	11.10291 AU				
	661 Nov 22 j 16:37	0° ∡ ¹		conjunction	668 Jan 25 j 00:29	7° ≈ 45'23	-1°00'14
morning rise	661 Dec 05 j 00:29	1° ∡ ¹25'58		minimum elong	668 Jan 25 j 00:27	7° ≈ 45'22	
retrograde	662 Mar 15 j 02:06	8° × ⁷ 21'21		max. Earth dist.	668 Jan 24 j 17:35		10.81300 AU
opposition	662 May 24 j 13:07	5°×7'04'08	1°41'35	morning rise	668 Feb 10 j 22:24	9°≈47'12	10.01300710
* *				morning rise			
min. Earth dist.	662 May 24 j 17:03	5° ∡ '03'25	9.11044 AU		668 Apr 01 j 18:12	15° ≈	
direct	662 Aug 03 j 17:40	1° ≯ ′45′08		retrograde	668 May 25 j 05:17	17°≈14'32	
evening set	662 Nov 13 j 02:53	8° ∡ ¹44'15			668 Jul 19 j 15:16	15°R ≈	
				opposition	668 Aug 03 j 22:32	13° ≈ 51'51	-1°29'44
conjunction	662 Nov 29 j 16:33	10° ∡ ³39'58	1°12'03	min. Earth dist.	668 Aug 04 j 04:00	13° ≈ 50'49	8.75830 AU
minimum elong	662 Nov 29 j 16:35	10° ∡ ³39′59	1°12'04	direct	668 Oct 11 j 18:43	10°≈32'41	
max. Earth dist.	662 Nov 29 j 10:57	10° ∡ ′38′20	11.11057 AU		668 Dec 26 j 01:12	15° ≈	
morning rise	662 Dec 16 j 05:39	12° ∡ ³35'33		evening set	669 Jan 19 j 09:21	17° ≈ 45'58	
retrograde	663 Mar 26 j 18:32	19° × ⁷ 32'30		evening sec	00) Jun 1) j 0).21	17 70 13 30	
•	,		1012124		((0 E-1, 05:05.54	1000040142	1024147
opposition	663 Jun 05 j 12:29	16° ₹ 14'55	1°13'24	conjunction	669 Feb 05 j 05:54	19° ≈ 48'43	
min. Earth dist.	663 Jun 05 j 17:48	16° ₹ 13'56	9.10584 AU	minimum elong	669 Feb 05 j 05:52	19° ≈ 48'43	1°24'47
direct	663 Aug 15 j 12:03	12° ∡ 56′28		max. Earth dist.	669 Feb 05 j 00:08	19° ≈ 46'58	10.70081 AU
evening set	663 Nov 24 j 07:10	19° ∡ 54′06		morning rise	669 Feb 22 j 06:22	21° ≈ 52'43	
				retrograde	669 Jun 07 j 09:41	29° ≈ 29'42	
conjunction	663 Dec 10 j 21:02	21° ∡ ¹50′06	0°47'42	opposition	669 Aug 16 j 19:10	26° ≈ 05'33	-1°58'20
minimum elong	663 Dec 10 j 21:04	21° × 750'07	0°47'42	min. Earth dist.	669 Aug 16 j 23:37	26°≈04'41	8.64108 AU
max. Earth dist.	663 Dec 10 j 14:32	21° √ 48'12	11.09440 AU	direct	669 Oct 24 j 02:40	22° ≈ 45'31	
morning rise	663 Dec 27 j 11:16	23° × ⁷ 46'14	11.05110710	evening set	670 Jan 31 j 21:35	0° \ 06'11	
morning risc	=	23 X 40 14 0°중		evening set	-	0° ₩	
. 1	664 Mar 06 j 14:50	_			670 Jan 31 j 01:07	0 X	
retrograde	664 Apr 06 j 15:15	0° る 46'19				>	
	664 May 08 j 05:06	30°Ŗ ⋌ 7		conjunction	670 Feb 17 j 20:45	2° ₩ 11'15	
opposition	664 Jun 16 j 12:56	27° ∡ °28'07		minimum elong	670 Feb 17 j 20:42	2° ₩ 11'14	1°45'59
min. Earth dist.	664 Jun 16 j 18:26	27° ∡ ¹27'07	9.07751 AU	max. Earth dist.	670 Feb 17 j 15:49	2°) €09'43	10.57897 AU
direct	664 Aug 26 j 05:52	24° ₮ 10'02		morning rise	670 Mar 07 j 00:10	4° 升 17'42	
	664 Nov 24 j 13:51	5°0		retrograde	670 Jun 20 j 22:28	12°) €04'54	
evening set	664 Dec 04 j 12:39	1° る 07'41		opposition	670 Aug 29 j 21:57	8° ₩ 39'15	-2°22'10
3				min. Earth dist.	670 Aug 30 j 01:22		8.51656 AU
conjunction	664 Dec 21 j 03:13	3° る 04'22	0°21'23	direct	670 Nov 05 j 15:42	5° ₩ 18'10	0.51050110
·		3°る04'22				12°) 47'26	
minimum elong	664 Dec 21 j 03:14			evening set	671 Feb 13 j 20:11	12°π4/20	
max. Earth dist.	664 Dec 20 j 21:04		11.05477 AU		(71.) (1403/5	2002:27
morning rise	665 Jan 06 j 18:46	5° る 01'24		conjunction	671 Mar 02 j 22:21	14° ¥ 55′03	
retrograde	665 Apr 18 j 15:31	12° る 06'14		minimum elong	671 Mar 02 j 22:19	14° ¥ 55′02	
opposition	665 Jun 28 j 15:36	8° る 47'11	0°09'19	max. Earth dist.	671 Mar 02 j 17:41	14° ¥ 53'35	10.45256 AU
min. Earth dist.	665 Jun 28 j 20:41	8° ප 46'14	9.02639 AU	morning rise	671 Mar 20 j 05:11	17° ₩ 04'10	
direct	665 Sep 06 j 23:11	5° る 29'13		retrograde	671 Jul 04 j 18:32	25° ₭ 01'36	
desc. node	665 Oct 11 j 00:22	6° る 26'09		opposition	671 Sep 12 j 07:09	21°) 34'35	-2°39'38
evening set	665 Dec 15 j 21:14	12° る 28'28		min. Earth dist.	671 Sep 12 j 09:52		8.39075 AU
e vennig set	000 BCC 10 J 21.11	12 02020		direct	671 Nov 18 j 13:13	18° ¥ 12'16	0.57075710
				direct	0/1 140V 10 J 13.13	10 /(12 10	
conjunction	666 Ian 01: 12:40	1/10至2/111	0°06'07	avaning set	672 Eab 27:05:22	2501150140	
conjunction	666 Jan 01 j 12:48	14° 궁 26'11		evening set	672 Feb 27 j 05:32	25° ∺ 50'49	
minimum elong	666 Jan 01 j 12:47	14° පි 26'11			-		2012/22
minimum elong behind sun begin	666 Jan 01 j 12:47 666 Jan 01 j 06:09	14° පි 26'11 14° පි 24'14		conjunction	672 Mar 15 j 11:19	28°) €01'12	
minimum elong behind sun begin behind sun end	666 Jan 01 j 12:47 666 Jan 01 j 06:09 666 Jan 01 j 19:26	14°පි26'11 14°පි24'14 14°පි28'08	0°06'07	conjunction minimum elong	672 Mar 15 j 11:19 672 Mar 15 j 11:17	28° ႘ 01'12 28° ႘ 01'12	2°13'22
minimum elong behind sun begin	666 Jan 01 j 12:47 666 Jan 01 j 06:09	14°පි26'11 14°පි24'14 14°පි28'08		conjunction	672 Mar 15 j 11:19	28° ₭ 01'12 28° ₭ 01'12 27° ₭ 59'57	
minimum elong behind sun begin behind sun end	666 Jan 01 j 12:47 666 Jan 01 j 06:09 666 Jan 01 j 19:26	14°පි26'11 14°පි24'14 14°පි28'08	0°06'07	conjunction minimum elong	672 Mar 15 j 11:19 672 Mar 15 j 11:17	28° ႘ 01'12 28° ႘ 01'12	2°13'22
minimum elong behind sun begin behind sun end max. Earth dist.	666 Jan 01 j 12:47 666 Jan 01 j 06:09 666 Jan 01 j 19:26 666 Jan 01 j 06:42	14° ට 26' 11 14° ට 24' 14 14° ට 28' 08 14° ට 24' 24	0°06'07	conjunction minimum elong	672 Mar 15 j 11:19 672 Mar 15 j 11:17 672 Mar 15 j 07:22	28° ₭ 01'12 28° ₭ 01'12 27° ₭ 59'57	2°13'22
minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde	666 Jan 01 j 12:47 666 Jan 01 j 06:09 666 Jan 01 j 19:26 666 Jan 01 j 06:42 666 Jan 18 j 06:05 666 Apr 30 j 22:47	14° ට 26'11 14° ට 24'14 14° ට 28'08 14° ට 24'24 16° ට 24'28 23° ට 35'31	0°06′07 10.99309 AU	conjunction minimum elong max. Earth dist.	672 Mar 15 j 11:19 672 Mar 15 j 11:17 672 Mar 15 j 07:22 672 Mar 31 j 03:48 672 Apr 01 j 22:00	28°₩01'12 28°₩01'12 27°₩59'57 0°Ψ	2°13'22
minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition	666 Jan 01 j 12:47 666 Jan 01 j 06:09 666 Jan 01 j 19:26 666 Jan 01 j 06:42 666 Jan 18 j 06:05 666 Apr 30 j 22:47 666 Jul 10 j 21:32	14° ට 26'11 14° ට 24'14 14° ට 28'08 14° ට 24'24 16° ට 24'28 23° ට 35'31 20° ට 15'26	0°06'07 10.99309 AU -0°24'30	conjunction minimum elong max. Earth dist. morning rise retrograde	672 Mar 15 j 11:19 672 Mar 15 j 11:17 672 Mar 15 j 07:22 672 Mar 31 j 03:48 672 Apr 01 j 22:00 672 Jul 17 j 22:27	28° H 01'12 28° H 01'12 27° H 59'57 0° Ψ 0° Ψ13'08 8° Ψ20'05	2°13'22 10.32852 AU
minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist.	666 Jan 01 j 12:47 666 Jan 01 j 06:09 666 Jan 01 j 19:26 666 Jan 01 j 06:42 666 Jan 18 j 06:05 666 Apr 30 j 22:47 666 Jul 10 j 21:32 666 Jul 11 j 02:39	14° ට 26'11 14° ට 24'14 14° ට 28'08 14° ට 24'24 16° ට 24'28 23° ට 35'31 20° ට 15'26 20° ට 14'29	0°06′07 10.99309 AU	conjunction minimum elong max. Earth dist. morning rise retrograde opposition	672 Mar 15 j 11:19 672 Mar 15 j 11:17 672 Mar 15 j 07:22 672 Mar 31 j 03:48 672 Apr 01 j 22:00 672 Jul 17 j 22:27 672 Sep 24 j 22:55	28° χ01'12 28° χ01'12 27° χ59'57 0° Υ 0° Υ13'08 8° Υ20'05 4° Υ51'50	2°13'22 10.32852 AU -2°49'12
minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	666 Jan 01 j 12:47 666 Jan 01 j 06:09 666 Jan 01 j 19:26 666 Jan 01 j 06:42 666 Jan 18 j 06:05 666 Apr 30 j 22:47 666 Jul 10 j 21:32 666 Jul 11 j 02:39 666 Sep 18 j 18:10	14°る26'11 14°る24'14 14°る28'08 14°る24'24 16°る24'28 23°る35'31 20°る15'26 20°る14'29 16°る57'20	0°06'07 10.99309 AU -0°24'30	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	672 Mar 15 j 11:19 672 Mar 15 j 11:17 672 Mar 15 j 07:22 672 Mar 31 j 03:48 672 Apr 01 j 22:00 672 Jul 17 j 22:27 672 Sep 24 j 22:55 672 Sep 25 j 00:49	28° χ01'12 28° χ01'12 27° χ59'57 0° Υ 0° Υ13'08 8° Υ20'05 4° Υ51'50 4° Υ51'27	2°13'22 10.32852 AU
minimum elong behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist.	666 Jan 01 j 12:47 666 Jan 01 j 06:09 666 Jan 01 j 19:26 666 Jan 01 j 06:42 666 Jan 18 j 06:05 666 Apr 30 j 22:47 666 Jul 10 j 21:32 666 Jul 11 j 02:39	14° ට 26'11 14° ට 24'14 14° ට 28'08 14° ට 24'24 16° ට 24'28 23° ට 35'31 20° ට 15'26 20° ට 14'29	0°06'07 10.99309 AU -0°24'30	conjunction minimum elong max. Earth dist. morning rise retrograde opposition	672 Mar 15 j 11:19 672 Mar 15 j 11:17 672 Mar 15 j 07:22 672 Mar 31 j 03:48 672 Apr 01 j 22:00 672 Jul 17 j 22:27 672 Sep 24 j 22:55	28° χ01'12 28° χ01'12 27° χ59'57 0° Υ 0° Υ13'08 8° Υ20'05 4° Υ51'50	2°13'22 10.32852 AU -2°49'12

678 Dec 18 j 02:14

opposition

29°**Ⅲ**33'31 -0°37'05

684 Sep 20 j 20:10

morning rise

16° Mp 00'02

retrograde	684 Dec 29 j 19:27	23° m/21'53		opposition	691 May 19 j 07:58	0° ∡ ¹05'28	1°53'25
opposition	685 Mar 07 j 12:00	20° m 01'31	2°37'23	min. Earth dist.	691 May 19 j 12:31	0° ₹ 03′28	9.11003 AU
min. Earth dist.	685 Mar 07 j 08:52	20° m) 02'08	8.62768 AU	mm. Latin dist.	691 May 20 j 13:47	30°RM	7.11003 AC
direct	685 May 16 j 16:28	16° Mp 35'37	0.02700 AC	direct	691 Jul 29 j 14:20	26°M46'29	
evening set	685 Aug 30 j 07:37	24° m) 14'34		direct	691 Oct 03 j 04:12	20 11 2 40 27	
evening set	003 Aug 30 J 07.37	24 IIJ 1434		evening set	691 Nov 08 j 07:03	3° ∡ 747'05	
conjunction	685 Sep 16 j 11:58	26° m 19'19	2°12'48	evening set	071 1407 00 j 07.03	3 7 47 03	
minimum elong	685 Sep 16 j 11:56	26° m) 19'18		conjunction	691 Nov 24 j 20:55	5° ∡ 742'50	1°22'28
max. Earth dist.	685 Sep 16 j 14:53		10.68773 AU	minimum elong	691 Nov 24 j 20:57	5° × ⁷ 42'51	1°22'28
morning rise	685 Oct 03 j 11:40	28° m) 22'39	10.00773110	max. Earth dist.	691 Nov 24 j 15:09		11.11401 AU
morning 1130	685 Oct 17 j 10:15	0° ರ		morning rise	691 Dec 11 j 09:41	7° ∡ 38′20	11.11401710
retrograde	686 Jan 11 j 01:37	ა _ 5° _ 36'49		retrograde	692 Mar 20 j 17:39	14° × ⁷ 34'35	
opposition	686 Mar 20 j 05:26	2° ≏ 17'43	2°47'09	opposition	692 May 30 j 07:30	11° х 17'31	1°26'54
min. Earth dist.	686 Mar 20 j 03:33	2° <u>₽</u> 18'04	8.74804 AU	min. Earth dist.	692 May 30 j 12:29	11° x 1/31	9.11314 AU
iiiii. Eartii tist.	686 Apr 22 j 04:43	30°RM)	6.74604 AU	direct	692 Aug 09 j 10:32	7° × 759'06	9.11314 AU
direct	686 May 29 j 19:59	28° Mp 53'11		evening set	692 Nov 18 j 12:03	14° ∡ 57'35	
direct	686 Jul 06 j 01:23	0° ت		evening set	092 NOV 16 J 12.03	14 × 5/33	
avanina aat				amiumation	602 Day 05 : 01:56	160.752120	0°59'18
evening set	686 Sep 11 j 22:26	6° ≏ 23'48		conjunction	692 Dec 05 j 01:56	16° x 53'28	0°59'18
	(0(G 20 : 22 22	00 0 25152	2017154	minimum elong	692 Dec 05 j 01:57	16° ₹ 53'29	
conjunction	686 Sep 28 j 22:23	8° Ω 25'53	2°17'54	max. Earth dist.	692 Dec 04 j 19:32		11.10495 AU
minimum elong	686 Sep 28 j 22:23	8° £ 25'53	2°17'55	morning rise	692 Dec 21 j 15:25	18° ∡ 749'19	
max. Earth dist.	686 Sep 28 j 23:32		10.80321 AU	retrograde	693 Apr 01 j 13:55	25° ∡ ¹48'03	0055103
morning rise	686 Oct 15 j 18:07	10° ≏ 26'42		opposition	693 Jun 11 j 07:57	22° ∡ 30′21	0°57'03
retrograde	687 Jan 23 j 02:01	17° ₽ 34'22		min. Earth dist.	693 Jun 11 j 13:53	22° ∡ 29'15	9.09140 AU
opposition	687 Apr 01 j 17:47	14° Ω 16'15		direct	693 Aug 21 j 03:55	19° ∡ 12'14 −	
min. Earth dist.	687 Apr 01 j 16:28	14° ≏ 16'30	8.85792 AU	evening set	693 Nov 29 j 17:18	26° ∡ 10′03	
direct	687 Jun 11 j 17:11	10° ≏ 53'05					
evening set	687 Sep 24 j 03:36	18° ≏ 15'45		conjunction	693 Dec 16 j 07:29	28° ₰ 06'27	0°33'47
				minimum elong	693 Dec 16 j 07:30	28° ₰ 06'27	0°33'48
conjunction	687 Oct 11 j 00:04	20° ≏ 15'37	2°16'58	max. Earth dist.	693 Dec 15 j 23:40		11.07158 AU
minimum elong	687 Oct 11 j 00:05	20° ≏ 15'37	2°16'58	morning rise	694 Jan 01 j 22:22	0° る 03'06	
max. Earth dist.	687 Oct 11 j 00:30	20° ≏ 15'45	10.90595 AU		694 Jan 01 j 11:37	0°ರ	
morning rise	687 Oct 27 j 16:36	22° ≏ 14'21		retrograde	694 Apr 13 j 11:08	7° る 05'52	
retrograde	688 Feb 04 j 00:41	29° ≙ 16'46		opposition	694 Jun 23 j 10:06	3° る 47'15	0°24'48
opposition	688 Apr 13 j 01:41	25° ♀ 59'25	2°44'25	min. Earth dist.	694 Jun 23 j 17:02	3° る 45'58	9.04608 AU
min. Earth dist.	688 Apr 13 j 01:23	25° ≏ 59'28	8.95263 AU	direct	694 Sep 01 j 21:04	0° る 29'08	
direct	688 Jun 23 j 06:30	22° ₽ 37'32		evening set	694 Dec 11 j 00:41	7° る 27'53	
evening set	688 Oct 05 j 00:47	29° ≏ 52'58					
	688 Oct 06 j 01:03	0° M.		conjunction	694 Dec 27 j 15:40	9° ට 25'10	0°06'47
				minimum elong	694 Dec 27 j 15:41	9° ට 25'10	0°06'47
conjunction	688 Oct 21 j 18:30	1°M51'05	2°10'24	behind sun begin	694 Dec 27 j 09:10	9° ට 23'16	
minimum elong	688 Oct 21 j 18:31	1°M51'06	2°10'23	behind sun end	694 Dec 27 j 22:12	9° る 27'05	
max. Earth dist.	688 Oct 21 j 17:47	1°M50'52	10.99156 AU	max. Earth dist.	694 Dec 27 j 07:18	9° ට 22'43	11.01534 AU
morning rise	688 Nov 07 j 08:43	3°M48'15		morning rise	695 Jan 13 j 08:19	11° る 22'57	
retrograde	689 Feb 14 j 17:40	10° M 46'44		desc. node	695 Mar 29 j 13:22	17° る 55'54	
opposition	689 Apr 25 j 05:59	7° M 29'54	2°32'58	retrograde	695 Apr 25 j 14:40	18° る 31'18	
min. Earth dist.	689 Apr 25 j 07:37	7° M 29'35	9.02823 AU	opposition	695 Jul 05 j 14:39	15° る 11'30	-0°08'48
direct	689 Jul 05 j 12:46	4° ™ 09'09		min. Earth dist.	695 Jul 05 j 21:44	15° පි 10'12	8.97895 AU
evening set	689 Oct 16 j 15:22	11° M 18'21		direct	695 Sep 13 j 17:10	11° る 53'09	
				evening set	695 Dec 22 j 11:47	18° る 54'24	
conjunction	689 Nov 02 j 06:57	13°ML15'11	1°58'43				
minimum elong	689 Nov 02 j 07:00	13°M15'12	1°58'42	conjunction	696 Jan 08 j 04:05	20°る52'57	-0°20'55
max. Earth dist.	689 Nov 02 j 03:53	13° M .14'17	11.05649 AU	minimum elong	696 Jan 08 j 04:04	20°る52'57	0°20'56
	689 Nov 17 j 04:51	15° ™ ₊		max. Earth dist.	696 Jan 07 j 20:34	20°る50'43	10.93822 AU
morning rise	689 Nov 18 j 19:58	15° M .11'18		morning rise	696 Jan 24 j 22:35	22° る 52'13	
retrograde	690 Feb 26 j 09:16	22°M07'24		-	696 Apr 24 j 13:51	0° ≈	
opposition	690 May 07 j 07:49	18°M50'47	2°15'43	retrograde	696 May 07 j 00:17	0° ≈ 07'36	
min. Earth dist.	690 May 07 j 11:23	18° ™ 50'07	9.08149 AU		696 May 19 j 12:25	30°Ŗ⋜	
direct	690 Jul 17 j 15:52	15°M31'00		opposition	696 Jul 16 j 22:53	26° る 46'26	-0°42'38
evening set	690 Oct 28 j 00:47	22°M35'12		min. Earth dist.	696 Jul 17 j 05:00		8.89238 AU
	, ,			direct	696 Sep 24 j 13:54	23° る 27'40	
conjunction	690 Nov 13 j 15:05	24°M31'15	1°42'31		696 Dec 28 j 11:37	0° ≈	
minimum elong	690 Nov 13 j 15:07	24°MJ31'15	1°42'30	evening set	697 Jan 02 j 04:20	0°≈32'58	
max. Earth dist.	690 Nov 13 j 10:01		11.09785 AU	<i>5</i>	<i>j</i>		
morning rise	690 Nov 30 j 03:42	26°M26'49	-	conjunction	697 Jan 18 j 22:07	2° ≈ 33'05	-0°48'07
2 -	691 Jan 02 j 16:40	0° ∡ ⊓		minimum elong	697 Jan 18 j 22:05	2°≈33'05	0°48'08
retrograde	691 Mar 10 j 00:30	3° х 22′10		max. Earth dist.	697 Jan 18 j 15:06		10.84302 AU
J	j	0			- J		

	607 F 1 04:10 47	40 2 4100			702 4 24:00 52	2100020101	
morning rise	697 Feb 04 j 18:47	4°≈34'09		morning rise	703 Apr 24 j 09:52	21° Y 29'01	
retrograde	697 May 19 j 17:13	11° ≈ 57'53		retrograde	703 Aug 09 j 17:01	29° Y 48′05	
opposition	697 Jul 29 j 11:48	8° ≈ 35'16		opposition	703 Oct 16 j 21:45	26° Y 18′06	
min. Earth dist.	697 Jul 29 j 17:15	8° ≈ 34'14	8.78959 AU	min. Earth dist.	703 Oct 16 j 20:05		8.10496 AU
direct	697 Oct 06 j 14:19	5° ≈ 15'50		direct	703 Dec 22 j 06:44	22° Ƴ 52'11	
evening set	698 Jan 14 j 04:06	12° ≈ 26'44			704 Mar 26 j 13:24	0° 8	
				evening set	704 Apr 02 j 16:31	0° ႘ 53'58	
conjunction	698 Jan 30 j 23:40	14° ≈ 28'45	-1°13'48	•			
minimum elong	698 Jan 30 j 23:37	14° ≈ 28'44		conjunction	704 Apr 20 j 09:43	3° 8 11'28	-2°07'56
max. Earth dist.	698 Jan 30 j 16:33		10.73344 AU	minimum elong	704 Apr 20 j 09:46	3° 8 11'29	
max. Latin dist.	698 Feb 04 i 06:21	15°≈	10.73344 AC	max. Earth dist.	704 Apr 20 j 11:55	_	10.06550 AU
	J					_	10.00330 AU
morning rise	698 Feb 16 j 22:57	16°≈31'55		morning rise	704 May 08 j 06:54	5° 8 30'15	
retrograde	698 Jun 01 j 17:47	24° ≈ 05'01		retrograde	704 Aug 23 j 09:52	13° 8 53'39	
opposition	698 Aug 11 j 06:03	20° ≈ 40′55	-1°45'43	opposition	704 Oct 30 j 02:39	10° 8 23'23	
min. Earth dist.	698 Aug 11 j 11:15	20° ≈ 39'55	8.67466 AU	min. Earth dist.	704 Oct 29 j 23:55	10° 8 23'57	8.03540 AU
direct	698 Oct 18 j 18:36	17° ≈ 20′38		direct	705 Jan 04 j 08:47	6° 8 56'23	
evening set	699 Jan 26 j 12:19	24° ≈ 38'31			705 Apr 16 j 21:04	15° 8	
				evening set	705 Apr 17 j 13:03	15° 8 05'07	
conjunction	699 Feb 12 j 10:10	26° ≈ 42'42	-1°36'45	Č	1 3		
minimum elong	699 Feb 12 j 10:07	26° ≈ 42'41	1°36'44	conjunction	705 May 05 j 10:49	17° 8 24'49	-1°51'54
max. Earth dist.	699 Feb 12 j 03:29		10.61384 AU	minimum elong	705 May 05 j 10:52	17° 8 24'50	
			10.01304 AC	_	705 May 05 j 10:52	_	10.00960 AU
morning rise	699 Mar 01 j 12:24	28°≈48'15		max. Earth dist.		_	10.00960 AU
_	699 Mar 11 j 14:01	0° ∀		morning rise	705 May 23 j 11:43	19° 8 45'30	
retrograde	699 Jun 15 j 01:13	6° ∺ 31'27		retrograde	705 Sep 07 j 03:56	28° 8 10'16	
opposition	699 Aug 24 j 06:19	3° ₩ 05'50		opposition	705 Nov 13 j 10:14	24° 8 40'06	
min. Earth dist.	699 Aug 24 j 11:02	3° ₩ 04'55	8.55223 AU	min. Earth dist.	705 Nov 13 j 06:17	_	7.99361 AU
	699 Oct 14 j 04:48	30° R ≈		direct	706 Jan 18 j 16:48	21° 8 12'10	
direct	699 Oct 31 j 06:17	29° ≈ 44'33		evening set	706 May 02 j 15:56	29° 8 25'58	
	699 Nov 17 j 04:53	0°) €			706 May 07 j 01:28	$\Pi^{\circ}0$	
evening set	700 Feb 08 j 06:08	7° ₩ 10'35					
C	,			conjunction	706 May 20 j 17:33	1° Ⅱ 47'11	-1°28'51
conjunction	700 Feb 25 j 06:52	9° ₩ 17'14	-1°55'40	minimum elong	706 May 20 j 17:37	1° II 47'13	1°28'50
minimum elong	700 Feb 25 j 06:49	9° ₩ 17'13		max. Earth dist.	706 May 20 j 23:33	1° I I49'10	
Č	-		10.48924 AU			4° ∏ 09'00	9.90320 AU
max. Earth dist.	700 Feb 25 j 01:59		10.46924 AU	morning rise	706 Jun 07 j 21:07		
morning rise	700 Mar 13 j 12:13	11° \(\) 25'20		retrograde	706 Sep 21 j 21:13	12° Ⅱ 32'01	1022150
retrograde	700 Jun 27 j 17:06	19° 米 18′53		opposition	706 Nov 27 j 18:35	9° Ⅱ 02'21	
opposition	700 Sep 05 j 12:55	15° ∺ 51'50		min. Earth dist.	706 Nov 27 j 13:22		7.98246 AU
min. Earth dist.	700 Sep 05 j 16:07	15° ¥ 51'12	8.42775 AU	direct	707 Feb 02 j 05:52	5° Ⅱ 33'41	
direct	700 Nov 12 j 01:45	12° ∺ 29′28		evening set	707 May 17 j 22:08	13° Ⅱ 50′16	
evening set	701 Feb 20 j 10:33	20°) 04′25					
				conjunction	707 Jun 05 j 02:23	16° Ⅱ 12'08	-1°00'11
conjunction	701 Mar 09 j 14:45	22° 升 13'45	-2°09'17	minimum elong	707 Jun 05 j 02:25	16° Ⅱ 12'09	1°00'11
minimum elong	701 Mar 09 j 14:43	22° ¥ 13'44	2°09'16	max. Earth dist.	707 Jun 05 j 10:07	16° Ⅱ 14'40	9.98830 AU
max. Earth dist.	701 Mar 09 j 11:59	22° ¥ 12'52	10.36562 AU	morning rise	707 Jun 23 j 07:08	18° 耳 34′08	
morning rise	701 Mar 26 j 23:36	24°) 24'35		retrograde	707 Oct 06 j 10:47	26° Ⅱ 52'33	
morning rise	701 May 17 j 19:08	0° Υ		opposition	707 Dec 12 j 02:09	23° II 23'41	0055120
	• •	2° Υ 28'03			•		
retrograde	701 Jul 11 j 18:54			min. Earth dist.	707 Dec 11 j 19:35		8.00264 AU
***	701 Sep 06 j 06:58	30° ₹ ₩	2046100	direct	708 Feb 16 j 21:18	19° Ⅱ 54'31	
opposition	701 Sep 19 j 01:58	28° ¥ 59'43		evening set	708 Jun 01 j 04:20	28° Ⅱ 11'25	
min. Earth dist.	701 Sep 19 j 03:17		8.30742 AU		708 Jun 15 j 04:32	0ංම	
direct	701 Nov 25 j 02:50	25° ∺ 36'11					
	702 Feb 05 j 18:31	0 ° Υ		conjunction	708 Jun 19 j 09:34	0° © 32'56	-0°27'56
evening set	702 Mar 06 j 01:58	3° Y 20′26		minimum elong	708 Jun 19 j 09:35	0° © 32'56	0°27'56
				max. Earth dist.	708 Jun 19 j 18:31	0° © 35'50	10.02397 AU
conjunction	702 Mar 23 j 10:10	5° Ƴ 32'34	-2°16'25	morning rise	708 Jul 07 j 13:50	2°954'09	
minimum elong	702 Mar 23 j 10:10	5° Ƴ 32'34		retrograde	708 Oct 19 j 18:47	11°9505'37	
max. Earth dist.	702 Mar 23 j 09:18		10.24943 AU	opposition	708 Dec 25 j 07:00	7°937'49	-0°14'02
morning rise	702 Apr 09 j 22:58	7° Υ 46'13		min. Earth dist.	708 Dec 24 j 23:58		8.05218 AU
retrograde	702 Apr 09 j 22:38 702 Jul 26 j 03:34	15° Υ 58'25		direct	708 Dec 24 j 23:38 709 Mar 02 j 12:41	4°908'23	5.05216 AU
-	-		2050142		-		
opposition	702 Oct 02 j 21:11	12° Y 29'06		asc. node	709 Apr 30 j 22:17	7°508'20	
min. Earth dist.	702 Oct 02 j 20:45	12° Y 29'11	8.19765 AU	evening set	709 Jun 16 j 07:48	12° © 23'20	
direct	702 Dec 08 j 12:23	9° ℃ 04'21				=	
evening set	703 Mar 20 j 04:18	16° Ƴ 57'46		conjunction	709 Jul 04 j 12:09	14°9643'32	0°05'47
				minimum elong	709 Jul 04 j 12:09	14° 5 43'32	0°05'46
conjunction	703 Apr 06 j 16:52	19° Ƴ 12'40	-2°16'08	behind sun begin	709 Jul 04 j 05:07	14°9541'17	
minimum elong	703 Apr 06 j 16:53	19° Ƴ 12'40	2°16'08	behind sun end	709 Jul 04 j 19:10	14° © 45'47	
max. Earth dist.	703 Apr 06 j 17:26	19° Ƴ 12'51	10.14724 AU	max. Earth dist.	709 Jul 04 j 20:59	14°9546'23	10.08689 AU
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morning rise	709 Jul 22 j 14:11	17° 5 03'01		max. Earth dist.	715 Sep 23 j 23:52	3° ≏ 24'17	10.74190 AU
retrograde	709 Nov 02 j 19:52	25° © 05'57		morning rise	715 Oct 10 j 19:17	5° ≏ 25'44	
opposition	710 Jan 08 j 07:42	21° © 39'26	0°27'37	retrograde	716 Jan 18 j 06:35	12° ≏ 36'44	
min. Earth dist.	710 Jan 08 j 01:17	21°5940'45	8.12664 AU	opposition	716 Mar 26 j 15:50	9° ₽ 17'57	2°49'20
direct	710 Mar 17 j 01:13	18° © 10'03		min. Earth dist.	716 Mar 26 j 15:14	9° ≏ 18'04	8.79737 AU
evening set	710 Jul 01 j 05:34	26°521'10		direct	716 Jun 05 j 11:05	5° ഫ 53'51	
	v			evening set	716 Sep 18 j 05:45	13° ≏ 20'36	
conjunction	710 Jul 19 j 07:16	28° 5 39'16	0°38'31				
minimum elong	710 Jul 19 j 07:14	28° © 39'15	0°38'30	conjunction	716 Oct 05 j 03:49	15° ≙ 21'36	2°18'06
max. Earth dist.	710 Jul 19 j 14:57	28°5641'43	10.17176 AU	minimum elong	716 Oct 05 j 03:49	15° ≙ 21'36	2°18'07
	710 Jul 29 j 19:36	$0^{\circ}\Omega$		max. Earth dist.	716 Oct 05 j 03:42	15° ≏ 21'34	10.84694 AU
morning rise	710 Aug 06 j 05:36	0° Ω 56′18		morning rise	716 Oct 21 j 21:45	17° ≏ 21'24	
retrograde	710 Nov 16 j 13:54	8° Ω 49'57		retrograde	717 Jan 29 j 05:36	24° ≏ 26'33	
opposition	711 Jan 22 j 03:34	5° Ω 24'54	1°06'48	opposition	717 Apr 08 j 02:05	21° ≙ 08'30	2°47'30
min. Earth dist.	711 Jan 21 j 22:17	5° Ω 25'59	8.22058 AU	min. Earth dist.	717 Apr 08 j 02:55	21° ≙ 08'21	8.89587 AU
direct	711 Mar 31 j 10:14	1° Ω 55'54		direct	717 Jun 18 j 04:05	17° ≏ 45'34	
evening set	711 Jul 15 j 19:14	10° Ω 01'37		evening set	717 Sep 30 j 06:44	25° ≏ 04'47	
conjunction	711 Aug 02 j 16:55	12° Ω 17'02		conjunction	717 Oct 17 j 01:32	27° ≙ 03'49	2°13'57
minimum elong	711 Aug 02 j 16:52	12° Ω 17′01		minimum elong	717 Oct 17 j 01:33	27° ≏ 03'49	2°13'57
max. Earth dist.	711 Aug 02 j 23:03	12° Ω 18'59	10.27335 AU	max. Earth dist.	717 Oct 16 j 23:45		10.93767 AU
morning rise	711 Aug 20 j 10:34	14° Ω 31'09		morning rise	717 Nov 02 j 16:56	29° ≙ 01'50	
	711 Aug 24 j 08:02	15° Ω			717 Nov 11 j 03:21	0° M	
retrograde	711 Nov 29 j 22:40	22° Ω 15′21		retrograde	718 Feb 09 j 23:19	6°M02'30	
opposition	712 Feb 04 j 17:51	18° Ω 51'47		opposition	718 Apr 20 j 08:15	2° M 44'57	
min. Earth dist.	712 Feb 04 j 13:36	18° Ω 52'38	8.32901 AU	min. Earth dist.	718 Apr 20 j 09:41	2° M 44'41	8.97809 AU
direct	712 Apr 13 j 14:58	15° Ω 23'26			718 Jun 02 j 14:21	30°Ŗ 죠	
evening set	712 Jul 28 j 23:32	23° Ω 22'30		direct	718 Jun 30 j 15:03	29° ₽ 23'08	
					718 Jul 28 j 08:30	0° M	
conjunction	712 Aug 15 j 16:23	25° Ω 34'52		evening set	718 Oct 12 j 00:12	6° ™ 35'40	
minimum elong	712 Aug 15 j 16:20	25° Ω 34'51					
max. Earth dist.	712 Aug 15 j 20:49		10.38679 AU	conjunction	718 Oct 28 j 16:45	8°M33′12	
morning rise	712 Sep 02 j 04:47	27° Ω 45'49		minimum elong	718 Oct 28 j 16:47	8°M33'13	2°04'26
	712 Sep 21 j 01:09	0° m y		max. Earth dist.	718 Oct 28 j 14:24		11.01072 AU
retrograde	712 Dec 11 j 22:35	5° m 20'42		morning rise	718 Nov 14 j 06:23	10° M 29′56	
opposition	713 Feb 17 j 02:02	1° Mp 58'33			718 Dec 28 j 03:32	15° M ₊	
min. Earth dist.	713 Feb 16 j 22:17	~	8.44669 AU	retrograde	719 Feb 21 j 17:05	17°M27'33	
	713 Mar 15 j 17:05	30°R Ω			719 Apr 21 j 04:07	15°RM	
direct	713 Apr 27 j 13:43	28° Ω 31'04		opposition	719 May 02 j 11:12	14° M ₊10'16	
	713 Jun 08 j 21:39	0° m ∕		min. Earth dist.	719 May 02 j 12:59		9.04108 AU
evening set	713 Aug 11 j 17:17	6° Mg 22′31		direct	719 Jul 12 j 20:41	10° M 49'31	
					719 Sep 26 j 09:36	15° M	
conjunction	713 Aug 29 j 05:01	8° mp 31'44		evening set	719 Oct 23 j 11:48	17° M 56'24	
minimum elong	713 Aug 29 j 04:58	8° m/31'43	1°54'20				
max. Earth dist.	713 Aug 29 j 08:26		10.50654 AU	conjunction	719 Nov 09 j 02:53	19° M 52'57	
morning rise	713 Sep 15 j 11:59	10° m 39'29		minimum elong	719 Nov 09 j 02:56	19° M ⋅52'58	1°50'06
retrograde	713 Dec 24 j 16:13	18° mp 05'34	2020127	max. Earth dist.	719 Nov 09 j 00:05		11.06343 AU
opposition	714 Mar 02 j 04:21	14° m) 44'41		morning rise	719 Nov 25 j 15:36	21°M48'53	
min. Earth dist.	714 Mar 02 j 01:02	14° Mp 45'20	8.56776 AU	retrograde	720 Mar 04 j 09:23	28°M44'54	
direct	714 May 11 j 04:27	11° Mp 18'17		opposition	720 May 13 j 12:05	25°M27'43	2°03'47
evening set	714 Aug 24 j 23:53	19° m 01'29		min. Earth dist.	720 May 13 j 15:09	25°M27'09	9.08258 AU
	7140 11:0626	010m 07140	2000120	direct	720 Jul 23 j 19:15	22°M07'54	
conjunction	714 Sep 11 j 06:36	21° Mp 07'40	2°08'30	evening set	720 Nov 02 j 19:28	29°M10'25	
minimum elong	714 Sep 11 j 06:34	21° Mp 07'40	2°08'30		720 Nov 09 j 22:45	0° ∡ ¹	
max. Earth dist.	714 Sep 11 j 09:29		10.62676 AU		720) 10 : 00 22	10.70/104	1021120
morning rise	714 Sep 28 j 08:24	23° Mp 12'23		conjunction	720 Nov 19 j 09:32	1°× 7 06'24	1°31'39
rotro ar- 1-	714 Dec 13 j 03:26	0∘ ⊽		minimum elong	720 Nov 19 j 09:35		1°31'39
retrograde	715 Jan 06 j 02:57	0° ჲ 30'26		max. Earth dist.	720 Nov 19 j 05:06		11.09392 AU
annagiti	715 Jan 30 j 08:07	30°RM)	2042147	morning rise	720 Dec 05 j 22:12	3° ∡ 02'02	
opposition	715 Mar 15 j 00:53	27° Mp 10'42		retrograde	721 Mar 16 j 00:14	9° х 58'01	1020/50
min. Earth dist.	715 Mar 14 j 22:27	27° Mp 11'10	8.68643 AU	opposition	721 May 25 j 11:56	6° 🗷 40'42	1°38'58
direct	715 May 24 j 11:04	23° Mp 45'27		min. Earth dist.	721 May 25 j 16:21	6° ₹ 39'53	9.10120 AU
	715 Aug 26 j 08:01	0° ჲ		direct	721 Aug 04 j 16:15	3° ∡ 721'37	
evening set	715 Sep 06 j 19:48	1° ≏ 20'17		evening set	721 Nov 14 j 00:46	10° ∡ 721′11	
agniumation	715 Cam 22: 21.55	20 0 22142	2016/22	agniumation	721 Nov. 20 : 14:20	120.71.702	1900/45
conjunction	715 Sep 23 j 21:55	3° <u>•</u> 23'42		conjunction	721 Nov 30 j 14:30	12° × 717'02	1°09'45
minimum elong	715 Sep 23 j 21:54	3° ≏ 23'41	2 10 24	minimum elong	721 Nov 30 j 14:32	12° ∡ 17′03	1°09'45

max. Earth dist.	721 Nov 30 j 08:46	12° ⊿ 15'22	11.10122 AU	conjunction	728 Feb 07 j 06:38	21° ≈ 31'36	-1°26'56
morning rise	721 Nov 30 j 08:48	14° 🖈 13'22	11.10122 AU	minimum elong	728 Feb 07 j 06:35	21°≈31'35	
retrograde	721 Bec 17 j 05:48 722 Mar 27 j 18:06	21° × 10'21		max. Earth dist.	728 Feb 07 j 01:53		10.69602 AU
opposition	722 Jun 06 j 11:49	17° х 52'38	1°10'26	morning rise	728 Feb 24 j 07:09	23°≈35'41	10.07002 AC
min. Earth dist.	722 Jun 06 j 16:39	17° 🗷 52'38	9.09638 AU	morning risc	728 Apr 30 j 18:03	0° ∺	
direct	722 Aug 16 j 11:27	14° × 34'07	7.07030 AU	retrograde	728 Jun 08 j 11:34	1° ¥ 13'00	
evening set	722 Aug 10 j 11:27 722 Nov 25 j 05:23	21° × 32'08		retrograde	728 Jul 17 j 19:16	30°R≈	
evening set	722 140V 23 J 03.23	21 × 32 00		opposition	728 Aug 17 j 20:18	27°≈48'45	-2°00'44
conjunction	722 Dec 11 j 19:27	23° ∡ ¹28'17	0°45'09	min. Earth dist.	728 Aug 17 j 23:44	27°≈48'06	8.63746 AU
minimum elong	722 Dec 11 j 19:29	23° × ^{28'18}	0°45'10	direct	728 Oct 25 j 02:33	24°≈28'42	0.03740 AC
max. Earth dist.	722 Dec 11 j 13:59		11.08495 AU	direct	729 Jan 17 j 10:20	0° \	
morning rise	722 Dec 28 j 09:44	25° × 2041	11.004/3 AO	evening set	729 Feb 01 j 22:33	1° ∺ 49'34	
morning risc	723 Feb 11 j 15:36	0°る		evening set	727100 01 1 22.33	1 /(4/34	
retrograde	723 Apr 08 j 14:39	2° る 25'18		conjunction	729 Feb 18 j 21:42	3° ¥ 54'40	10/17//3
retrograde	723 Jun 06 j 08:41	2 O25 18 30°R. ₹		minimum elong	729 Feb 18 j 21:42	3° ¥ 54'39	
opposition	723 Jun 18 j 12:41	29° ₹ 106'56	0°39'07	max. Earth dist.	729 Feb 18 j 16:57		10.57653 AU
min. Earth dist.	723 Jun 18 j 17:13	29° х 00'30	9.06811 AU	morning rise	729 Mar 08 j 01:17	6° ∺ 01'09	10.57055 AU
direct		25° × 48'47	9.00811 AU	-	729 Jun 21 j 23:42	13° ¥ 48′30	
direct	723 Aug 28 j 04:40	23 x ·4847		retrograde	•		2022150
. ,	723 Nov 11 j 00:20			opposition	729 Aug 30 j 23:15	10°) € 22'48	-2°23'58 8.51548 AU
evening set	723 Dec 06 j 11:25	2° る 46'49		min. Earth dist.	729 Aug 31 j 02:21		8.51548 AU
	700 D	4074040	0010149	direct	729 Nov 06 j 16:47	7° ₩ 01'41	
conjunction	723 Dec 23 j 02:08	4°₹43'39	0°18'42	evening set	730 Feb 14 j 21:19	14° ¥ 30′58	
minimum elong	723 Dec 23 j 02:09	4° る 43'39	0°18'42				
max. Earth dist.	723 Dec 22 j 20:35		11.04551 AU	conjunction	730 Mar 03 j 23:31	16° ∺ 38'36	
morning rise	724 Jan 08 j 17:47	6° る 40'49		minimum elong	730 Mar 03 j 23:29	16° ¥ 38'35	
retrograde	724 Apr 19 j 17:06	13° る 46'14		max. Earth dist.	730 Mar 03 j 18:49		10.45272 AU
opposition	724 Jun 29 j 15:40	10° る 27'03	0°06'00	morning rise	730 Mar 21 j 06:34	18° ¥ 47'45	
min. Earth dist.	724 Jun 29 j 20:26	10° る 26'10	9.01736 AU	retrograde	730 Jul 05 j 20:12	26°) 45′06	
desc. node	724 Sep 04 j 18:11	7° る 09'30		opposition	730 Sep 13 j 08:22	23° ¥ 18′04	-2°40'42
direct	724 Sep 07 j 22:32	7° る 09'00		min. Earth dist.	730 Sep 13 j 11:18		8.39207 AU
evening set	724 Dec 16 j 20:33	14° る 08'38		direct	730 Nov 19 j 13:51	19° ∺ 55'44	
				evening set	731 Feb 28 j 06:43	27°) 34′12	
conjunction	725 Jan 02 j 12:07	16° පි 06'28	-0°08'50				
minimum elong	725 Jan 02 j 12:06	16° ට 06'28	0°08'50	conjunction	731 Mar 17 j 12:41	29°) 44′35	-2°13'56
behind sun begin	725 Jan 02 j 06:03	16° පි 04'42		minimum elong	731 Mar 17 j 12:40	29°) 44'34	2°13'55
behind sun end	725 Jan 02 j 18:09	16° පි 08'15		max. Earth dist.	731 Mar 17 j 09:07	29° ∺ 43′27	10.33079 AU
max. Earth dist.	725 Jan 02 j 05:39	16° පි 04'34	10.98438 AU		731 Mar 19 j 13:17	0° Y	
morning rise	725 Jan 19 j 05:38	18° る 04'55		morning rise	731 Apr 03 j 23:33	1° Y 56'30	
retrograde	725 May 01 j 22:43	25° පි 16'30		retrograde	731 Jul 19 j 23:14	10° Ƴ 03'13	
opposition	725 Jul 11 j 22:04	21° ප 56'17	-0°27'50	opposition	731 Sep 26 j 23:52	6° Ƴ 35′00	-2°49'27
min. Earth dist.	725 Jul 12 j 03:27	21° る 55'17	8.94607 AU	min. Earth dist.	731 Sep 27 j 01:50	6° Ƴ 34'36	8.27412 AU
direct	725 Sep 19 j 16:51	18° る 38'05		direct	731 Dec 02 j 20:09	3° Ƴ 11'21	
evening set	725 Dec 28 j 10:10	25° る 40'53		evening set	732 Mar 13 j 02:50	10° Ƴ 59'08	
•	, and the second				•		
conjunction	726 Jan 14 j 03:00	27° る 40'03	-0°36'17	conjunction	732 Mar 30 j 13:07	13° Y 12′20	-2°17'06
minimum elong	726 Jan 14 j 02:59	27° る 40'03	0°36'17	minimum elong	732 Mar 30 j 13:07	13° Y 12'20	2°17'06
max. Earth dist.	726 Jan 13 j 20:23	27° る 38'04	10.90378 AU	max. Earth dist.	732 Mar 30 j 11:47	13° Y 11'54	10.21810 AU
morning rise	726 Jan 30 j 22:42	29° る 40'06		morning rise	732 Apr 17 j 03:59	15° Ƴ 27'02	
	726 Feb 02 j 18:54	0° ≈		retrograde	732 Aug 02 j 08:25	23° Y 41'41	
retrograde	726 May 14 j 10:34	6° ≈ 59'14		opposition	732 Oct 09 j 21:06	20° Ƴ 12′28	-2°49'01
opposition	726 Jul 24 j 08:28	3° ≈ 37'47	-1°01'09	min. Earth dist.	732 Oct 09 j 21:21	20° Ƴ 12'24	8.16896 AU
min. Earth dist.	726 Jul 24 j 13:47	3° ≈ 36'47	8.85678 AU	direct	732 Dec 15 j 10:32	16° Ƴ 47'30	
direct	726 Oct 01 j 16:22	0° ≈ 19'11		evening set	733 Mar 27 j 09:26	24° Y '44'05	
evening set	727 Jan 09 j 06:10	7° ≈ 26'39		Č	ž		
C	,			conjunction	733 Apr 14 j 00:25	27° Ƴ ′00′03	-2°12'36
conjunction	727 Jan 26 j 00:47	9° ≈ 27'31	-1°02'42	minimum elong	733 Apr 14 j 00:27	27° Y ′00'04	
minimum elong	727 Jan 26 j 00:45	9° ≈ 27'31	1°02'43	max. Earth dist.	733 Apr 14 j 01:29	27° Y ′00'24	10.12181 AU
max. Earth dist.	727 Jan 25 j 19:08		10.80648 AU	morning rise	733 May 01 j 19:26	29° Y 17′21	-
morning rise	727 Feb 11 j 22:46	11° ≈ 29′26			733 May 07 j 11:03	0°8	
	727 Mar 15 j 18:36	15° ≈		retrograde	733 Aug 16 j 23:00	7° 8 37'43	
retrograde	727 May 27 j 07:36	18° ≈ 57'14		opposition	733 Oct 23 j 22:58	4° 8 07'48	-2°38'45
opposition	727 Aug 05 j 23:31	15°≈34'26	-1°32'36	min. Earth dist.	733 Oct 23 j 21:19	4° 8 08'09	
min. Earth dist.	727 Aug 05 j 23:51 727 Aug 06 j 03:57		8.75265 AU	direct	733 Dec 29 j 07:28	0° 8 41'32	5.00525 AU
mm. Latin dist.	727 Aug 00 j 03.37 727 Aug 13 j 14:00	15 ≈55 55 15°R≈	5.75205 AU	evening set	734 Apr 11 j 01:16	8° 8 45'53	
direct	727 Aug 13 j 14:00 727 Oct 13 j 19:13	13 k∞ 12°≈15'13		Croning set	15-11pt 11 J 01.10	0 0+333	
ancei	727 Oct 13 j 19.13 727 Dec 10 j 13:56	12 ≈13 13 15°≈		conjunction	734 Apr 28 j 20:57	11° 8 04'19	-2°00'12
evening set	728 Jan 21 j 09:55	13 ≈ 19°≈28'46		minimum elong	734 Apr 28 j 20:37	11° 8 04'20	
evening set	, 20 Jun 21 J 07.33	17 ~2040		mmmum ciong	757 ripi 20 J 21.00	11 00420	2 00 13

max. Earth dist.	734 Apr 28 j 23:52	11° 8 05'16	10.04807 AU	opposition	740 Jan 16 j 01:19	29°©12'25	0°48'41
morning rise	734 May 16 j 19:54	13° 8 23'52		min. Earth dist.	740 Jan 15 j 19:18	29° 5 13'39	8.16098 AU
	734 May 29 j 15:12	15° 8		direct	740 Mar 24 j 02:43	25°5642'40	
retrograde	734 Aug 31 j 16:47	21° 8 47'10			740 Jun 05 j 06:45	$0^{\circ}\Omega$	
opposition	734 Nov 07 j 04:23	18° 8 16'58		evening set	740 Jul 08 j 08:24	3° Ω 51′25	
min. Earth dist.	734 Nov 07 j 01:21	_	8.02239 AU				
	734 Dec 29 j 20:24	15° ₹ 8		conjunction	740 Jul 26 j 08:21	6° Ω 08'20	0°54'43
direct	735 Jan 12 j 10:36	14° 8 49'28		minimum elong	740 Jul 26 j 08:18	6° Ω 08'19	0°54'43
	735 Jan 26 j 02:01	15° 8		max. Earth dist.	740 Jul 26 j 15:31		10.21043 AU
evening set	735 Apr 26 j 00:19	23° 8 00'00		morning rise	740 Aug 13 j 04:30	8° Ω 24'02	
. ,.	725 M 14:00.00	250	1040122	. 1	740 Oct 17 j 08:45	15° Ω	
conjunction	735 May 14 j 00:09	25° 8 20'21		retrograde	740 Nov 23 j 00:55	16° Ω 13'06	
minimum elong	735 May 14 j 00:13	25° 8 20'23	1°40'22 10.00159 AU	:	740 Dec 30 j 05:07	15°R Ω 12° Ω 48'15	1025120
max. Earth dist. morning rise	735 May 14 j 04:35 735 Jun 01 j 02:19	25° 8 21'48	10.00139 AU	opposition min. Earth dist.	741 Jan 28 j 18:08 741 Jan 28 j 12:09	12° \(\lambda\) 48° 13° 12° $\(\Omega\)$ 49° 27°	1°25'38 8.26363 AU
morning rise	735 Jun 19 j 16:27	27 O 41 29 0° Ⅱ		direct	741 Jan 28 j 12.09 741 Apr 07 j 09:28	9° Ω 19'03	8.20303 AU
retrograde	735 Sep 15 j 10:42	6° Ⅱ 04'46		direct	741 Jul 02 j 22:29	15° Ω	
opposition	735 Nov 21 j 11:39	2° I I34'40	-1°49'53	evening set	741 Jul 22 j 17:18	17° Ω 21'39	
min. Earth dist.	735 Nov 21 j 07:41		7.99043 AU	evening sec	/ 11 Jul 22 j 17.10	17 002139	
mm. zarm aist.	735 Dec 26 j 14:19	30° ₹ 8	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	conjunction	741 Aug 09 j 12:48	19° Ω 35'38	1°22'34
direct	736 Jan 26 j 20:42	29° 8 06'08		minimum elong	741 Aug 09 j 12:44	19° Ω 35'37	1°22'34
	736 Feb 26 j 23:51	0°II		max. Earth dist.	741 Aug 09 j 19:39	19° Ω 37'48	10.32033 AU
evening set	736 May 10 j 04:10	7° Ⅱ 20'50		morning rise	741 Aug 27 j 03:43	21° Ω 48'13	
Č	, ,			retrograde	741 Dec 06 j 05:36	29° Ω 27'44	
conjunction	736 May 28 j 07:12	9° Ⅱ 42′20	-1°14'13	opposition	742 Feb 11 j 05:08	26° Ω 04'26	1°57'00
minimum elong	736 May 28 j 07:16	9° Ⅱ 42′21	1°14'13	min. Earth dist.	742 Feb 11 j 00:06	26° Ω 05′26	8.37968 AU
max. Earth dist.	736 May 28 j 12:41	9° Ⅱ 44'08	9.98543 AU	direct	742 Apr 21 j 10:00	22° Ω 36′06	
morning rise	736 Jun 15 j 11:29	12° Ⅱ 04'14			742 Aug 01 j 08:34	0° m	
retrograde	736 Sep 29 j 01:05	20° Ⅱ 24'32		evening set	742 Aug 05 j 16:02	0°₩31'24	
opposition	736 Dec 04 j 18:59	16° Ⅱ 54'57					
min. Earth dist.	736 Dec 04 j 14:32		7.98946 AU	conjunction	742 Aug 23 j 06:23	2°Mp42'13	1°45'27
direct	737 Feb 09 j 10:40	13° Ⅱ 25'36		minimum elong	742 Aug 23 j 06:20	2°Mp42'12	1°45'26
evening set	737 May 25 j 09:55	21° Ⅱ 42'10		max. Earth dist.	742 Aug 23 j 12:03	-•	10.44037 AU
		-		morning rise	742 Sep 09 j 15:52	4° m 51'33	
conjunction	737 Jun 12 j 14:46	24° I I03'55		retrograde	742 Dec 19 j 03:00	12° m 21'54	2021120
minimum elong	737 Jun 12 j 14:48	24° I I03'56	0°43'28	opposition	743 Feb 24 j 10:14	9° 10 00'06	2°21'29
max. Earth dist.	737 Jun 12 j 20:49		10.00044 AU	min. Earth dist.	743 Feb 24 j 06:26	9° my 00'50	8.50284 AU
morning rise	737 Jun 30 j 19:34	26°∏25'36 0° ©		direct	743 May 05 j 03:17	5° Mp 32'52	
retrograde	737 Jul 30 j 10:51 737 Oct 13 j 10:43	0°99 4°9940'22		evening set	743 Aug 19 j 03:45	13° m 20'08	
opposition	737 Dec 19 j 00:43	1°911'39	0°33'50	conjunction	743 Sep 05 j 12:50	15° m 27'49	2°02'30
min. Earth dist.	737 Dec 19 j 00:43	1°912'39	8.01930 AU	minimum elong	743 Sep 05 j 12:30	15° M) 27'48	2°02'30
iiiii. Lattii dist.	738 Jan 02 j 17:33	30°RⅡ	6.01750 AC	max. Earth dist.	743 Sep 05 j 16:40		10.56428 AU
direct	738 Feb 24 j 01:58	27° Ⅱ 41'48		morning rise	743 Sep 22 j 17:10	17° m 34'00	10.50420710
	738 Apr 16 j 10:09	0ංම 		retrograde	743 Dec 31 j 15:39	24° m 55'52	
evening set	738 Jun 09 j 14:31	5°957'55		opposition	744 Mar 08 j 09:19	21° m) 35'27	2°38'23
Č	,			min. Earth dist.	744 Mar 08 j 06:31	21° m/36'00	8.62676 AU
conjunction	738 Jun 27 j 19:23	8° © 18'53	-0°10'17	direct	744 May 17 j 14:07	18° m 09'30	
minimum elong	738 Jun 27 j 19:24	8°518'54	0°10'17	evening set	744 Aug 31 j 04:48	25° Mp 48'27	
behind sun begin	738 Jun 27 j 13:38	8°917'02					
behind sun end	738 Jun 28 j 01:10	8°920'45		conjunction	744 Sep 17 j 08:59	27° m 53'11	2°13'20
max. Earth dist.	738 Jun 28 j 01:56	8° 5 21'00	10.04527 AU	minimum elong	744 Sep 17 j 08:57	27° m 53'10	2°13'21
morning rise	738 Jul 15 j 22:53	10°539'23		max. Earth dist.	744 Sep 17 j 11:14	-•	10.68596 AU
asc. node	738 Oct 21 j 08:35	18° © 44'26		morning rise	744 Oct 04 j 08:36	29° Mp 56'30	
retrograde	738 Oct 27 j 14:23	18° © 46'40			744 Oct 04 j 20:20	0∘ ত	
opposition	739 Jan 02 j 03:13	15°519'03	0°08'02	retrograde	745 Jan 11 j 21:54	7° Ω 10'49	20.45:21
min. Earth dist.	739 Jan 01 j 21:42	15°920'11	8.07776 AU	opposition	745 Mar 21 j 02:43	3° £ 51'37	2°47'31
direct	739 Mar 10 j 15:53	11°549'05		min. Earth dist.	745 Mar 21 j 00:26	3° £ 52'04	8.74547 AU
evening set	739 Jun 24 j 14:54	20° © 02'29		direct	745 May 30 j 18:46	0° £ 27'02	
agniumation	720 Jul 12: 10:04	2200221140	0022112	evening set	745 Sep 12 j 19:32	7° £ 57'44	
conjunction minimum elong	739 Jul 12 j 18:04 739 Jul 12 j 18:03	22°©21'48 22°©21'47	0°23'12 0°23'12	conjunction	745 Sep 29 j 19:29	9° £ 59'51	2°17'56
max. Earth dist.	739 Jul 12 j 18:03 739 Jul 13 j 01:04	22°921'47 22°924'03	10.11682 AU	minimum elong	745 Sep 29 j 19:29 745 Sep 29 j 19:28	9° £ 39'31	2°17'56 2°17'56
morning rise	739 Jul 30 j 18:33	24°940'13	10.11002 AU	max. Earth dist.	745 Sep 29 j 21:02		10.79986 AU
	739 Sep 16 j 13:27	0°Ω		morning rise	745 Oct 16 j 15:02	10 ⊆ 0019 12° ⊆ 00'40	-0., //00/110
retrograde	739 Nov 10 j 11:51	2° Ω 38'43		retrograde	746 Jan 24 j 00:48	12° ⊆ 08'34	
	740 Jan 06 j 06:23	30°R.€		opposition	746 Apr 02 j 15:20	15° ⊆ 50'23	2°49'05
	<i>y</i>	•		**	1 3 7		

min. Earth dist.	746 Apr 02 j 13:53	15° ≙ 50'39	8.85378 AU	min. Earth dist.	752 Jun 12 j 14:09	24° ∡ ¹07'38	9.08580 AU
direct	746 Jun 12 j 14:32	12° ≏ 27'11		direct	752 Aug 22 j 02:20	20° ∡ 50'41	
evening set	746 Sep 25 j 00:46	19° ≏ 49'58		evening set	752 Nov 30 j 16:07	27° ∡ ¹48'49	
conjunction	746 Oct 11 j 21:13	21° ≏ 49'54		conjunction	752 Dec 17 j 06:21	29° ∡ ¹45'19	0°31'08
minimum elong	746 Oct 11 j 21:13	21° ≏ 49'54	2°16'29	minimum elong	752 Dec 17 j 06:22	29° ∡ ¹45'19	0°31'08
max. Earth dist.	746 Oct 11 j 21:59		10.90117 AU	max. Earth dist.	752 Dec 16 j 22:34		11.06605 AU
morning rise	746 Oct 28 j 13:37	23° △ 48'42			752 Dec 19 j 08:12	0°る 1°る42'05	
retrograde	747 Jan 04 j 00:50 747 Feb 04 j 21:53	0°ጤ 0°ጤ51'24		morning rise retrograde	753 Jan 02 j 21:27 753 Apr 14 j 11:47	8° る 45'22	
retrograde	747 Mar 09 j 09:35	0 11 6 31 24 30°R Ω		opposition	753 Jun 24 j 10:16	5°る26'43	0°21'30
opposition	747 Apr 14 j 23:40	27° £ 33'59	2°43'33	min. Earth dist.	753 Jun 24 j 16:53	5° 云 25'30	9.04062 AU
min. Earth dist.	747 Apr 14 j 23:53	27° ≙ 33'57	8.94729 AU	direct	753 Sep 02 j 21:46	2° ප 08'39	
direct	747 Jun 25 j 02:47	24° ≙ 12'04		evening set	753 Dec 11 j 23:51	9° ට 07'42	
	747 Sep 24 j 00:47	0°M₊					
evening set	747 Oct 06 j 22:09	1°ML27'43		conjunction	753 Dec 28 j 15:02	11° ට 05'06	0°04'03
				minimum elong	753 Dec 28 j 15:02	11° る 05'06	0°04'03
conjunction	747 Oct 23 j 15:45	3°M25'54	2°09'25	behind sun begin	753 Dec 28 j 08:09	11° る 03'05	
minimum elong	747 Oct 23 j 15:46		2°09'24	behind sun end	753 Dec 28 j 21:55	11° る 07'07	
max. Earth dist.	747 Oct 23 j 14:32		10.98582 AU	max. Earth dist.	753 Dec 28 j 07:41		11.00996 AU
morning rise	747 Nov 09 j 06:05	5°M23'10		morning rise	754 Jan 14 j 07:42	13° る 03'00	
retrograde	748 Feb 16 j 15:31 748 Apr 26 j 04:17	12°M22'02	2021120	desc. node	754 Feb 21 j 02:40	17°る02'17 20°る11'54	
opposition min. Earth dist.	748 Apr 26 j 06:22	9° ጤ 05'08 9° ጤ 04'44	2°31'30 9.02220 AU	retrograde opposition	754 Apr 26 j 15:31 754 Jul 06 j 15:15	20° る 11°54 16° る 52'04	0012110
direct	748 Jul 06 j 11:19	5°M44'20	9.02220 AO	min. Earth dist.	754 Jul 06 j 21:19		8.97371 AU
evening set	748 Oct 17 j 12:56	12°ML53'48		direct	754 Sep 14 j 16:32	13° ප 33'47	0.57571710
	, , <u>,</u>			evening set	754 Dec 23 j 11:26	20°る35'20	
conjunction	748 Nov 03 j 04:30	14°M50'44	1°57'16	C	,		
minimum elong	748 Nov 03 j 04:33	14° M 50'44	1°57'15	conjunction	755 Jan 09 j 03:51	22° る 33'59	-0°23'38
max. Earth dist.	748 Nov 03 j 01:09	14° M 49'44	11.05034 AU	minimum elong	755 Jan 09 j 03:50	22° る 33'59	0°23'39
	748 Nov 04 j 11:58	15° M ₊		max. Earth dist.	755 Jan 08 j 20:57		10.93311 AU
morning rise	748 Nov 19 j 17:41	16°M46'57		morning rise	755 Jan 25 j 22:25	24° る 33'22	
retrograde	749 Feb 27 j 07:25	23°M43'28			755 Mar 21 j 22:13	0° ≈	
opposition	749 May 08 j 06:25	20°M26'45	2°13'42	retrograde	755 May 09 j 02:02	1°≈49'17	
min. Earth dist. direct	749 May 08 j 09:27	20°M26'12	9.07529 AU		755 Jun 27 j 17:03	30°Rる	0945154
evening set	749 Jul 18 j 14:18 749 Oct 28 j 22:34	17°M06'58 24°M11'24		opposition min. Earth dist.	755 Jul 18 j 23:52 755 Jul 19 j 05:28	28° る 28'06	8.88750 AU
evening set	749 Oct 26 j 22.34	24 11611 24		direct	755 Sep 26 j 14:01	28 32704 25° る 09'22	6.66730 AU
conjunction	749 Nov 14 j 13:01	26°ML07'33	1°40'40	direct	755 Dec 15 j 07:57	0°≈	
minimum elong	749 Nov 14 j 13:03	26°ML07'34		evening set	756 Jan 04 j 04:34	2°≈14'59	
max. Earth dist.	749 Nov 14 j 08:53		11.09177 AU	C	,		
morning rise	749 Dec 01 j 01:39	28°ML03'13		conjunction	756 Jan 20 j 22:20	4° ≈ 15'12	-0°50'42
	749 Dec 18 j 13:48	0° ∡ ¹		minimum elong	756 Jan 20 j 22:18	4° ≈ 15'11	0°50'43
retrograde	750 Mar 10 j 23:57	4° ∡ ¹59'01		max. Earth dist.	756 Jan 20 j 14:59	4° ≈ 12'59	10.83839 AU
opposition	750 May 20 j 07:00	1° ∡ ¹42'13	1°50'57	morning rise	756 Feb 06 j 19:12	6°≈16′22	
min. Earth dist.	750 May 20 j 10:39	1° ∡ ′41′33	9.10401 AU	retrograde	756 May 20 j 19:30	13° ≈ 40'34	
t' .	750 Jun 13 j 16:01	30°RM.		opposition	756 Jul 30 j 13:01	10°≈17'57	
direct	750 Jul 30 j 13:34 750 Sep 13 j 23:50	28°M23'14 0° ∡ 7		min. Earth dist.	756 Jul 30 j 18:43 756 Oct 07 j 13:49		8.78530 AU
evening set	750 Nov 09 j 05:09	5° ∡ 724'03		direct evening set	757 Jan 15 j 04:44	6°≈58'32 14°≈09'45	
evening set	730 NOV 09 J 03.09	3 X 24 03		evening set	757 Jan 22 j 04:06	14 ≈09 43 15°≈	
conjunction	750 Nov 25 j 19:07	7° ∡ 19'54	1°20'16		757 3un 22 j 0 1.00	15 / •	
minimum elong	750 Nov 25 j 19:09	7° ∡ 19'55		conjunction	757 Feb 01 j 00:20	16° ≈ 11'49	-1°16'07
max. Earth dist.	750 Nov 25 j 14:09	7° ∡ 18'27	11.10816 AU	minimum elong	757 Feb 01 j 00:17	16° ≈ 11'48	1°16'08
morning rise	750 Dec 12 j 07:55	9° ∡ 15'30		max. Earth dist.	757 Jan 31 j 17:11	16° ≈ 09'39	10.72951 AU
retrograde	751 Mar 22 j 17:55	16° ∡ 12'11		morning rise	757 Feb 17 j 23:48	18° ≈ 15′05	
opposition	751 Jun 01 j 07:00	12° ∡ 55′04	1°24'03	retrograde	757 Jun 02 j 18:02	25° ≈ 48'36	
min. Earth dist.	751 Jun 01 j 11:51	12° ∡ 54'11	9.10736 AU	opposition	757 Aug 12 j 07:31	22°≈24'28	
direct	751 Aug 11 j 08:23	9° х 36′40		min. Earth dist.	757 Aug 12 j 12:51	22°≈23'27	8.67118 AU
evening set	751 Nov 20 j 10:28	16° ∡ ³35′22		direct	757 Oct 19 j 19:51	19°≈04'11	
aanius -ti	751 De- 07:00 21	100.701101	0056150	evening set	758 Jan 27 j 13:12	26° ≈ 22'20	
conjunction	751 Dec 07 j 00:21	18° ∡ 131'21 18° ∡ 131'22	0°56'50 0°56'51	conjunction	758 Fab 12; 11.14	2800026126	1028141
minimum elong max. Earth dist.	751 Dec 07 j 00:23 751 Dec 06 j 17:36		11.09928 AU	conjunction minimum elong	758 Feb 13 j 11:14 758 Feb 13 j 11:11	28°≈26'36 28°≈26'35	
morning rise	751 Dec 06 j 17.36 751 Dec 23 j 14:04	18 x ·2922 20° x ⁷ 27'21	11.07720 AU	max. Earth dist.	758 Feb 13 j 05:31		1 38 40 10.61079 AU
retrograde	751 Dec 23 j 14:04 752 Apr 02 j 12:25	27° 🖈 26'32		Durin dist.	758 Feb 26 j 03:19	0° ∺	-0.010//110
opposition	752 Jun 12 j 07:49	24° × 108'48	0°53'55	morning rise	758 Mar 02 j 13:31	0°) 32′11	
**	3			2	•		

retrograde	758 Jun 16 j 02:31	8° ₩ 15'44		max. Earth dist.	764 May 06 j 16:45	100₩00'00	10.01268 AU
opposition	758 Aug 25 j 07:51	4° ¥ 50'04	2014'06	morning rise	764 May 24 j 13:13	21° 8 28'19	10.01208 AU
min. Earth dist.			8.54975 AU	· ·	764 Sep 08 j 04:05	29° 8 52'31	
	758 Aug 25 j 11:59		8.54975 AU	retrograde			2002152
direct	758 Nov 01 j 08:33	1° ¥ 28'47		opposition	764 Nov 14 j 10:19	26° 8 22'20	
evening set	759 Feb 09 j 07:27	8° ¥ 54'59		min. Earth dist.	764 Nov 14 j 06:05	_	7.99693 AU
				direct	765 Jan 19 j 18:12	22° 8 54'19	
conjunction	759 Feb 26 j 08:24	11° ∺ 01'42			765 Apr 24 j 18:38	0°II	
minimum elong	759 Feb 26 j 08:21	11° 米 01'41		evening set	765 May 03 j 16:45	1° Ⅱ 07'48	
max. Earth dist.	759 Feb 26 j 04:27		10.48722 AU			_	
morning rise	759 Mar 15 j 13:46	13° ∺ 09'52		conjunction	765 May 21 j 18:38	3° Ⅱ 28'59	
retrograde	759 Jun 29 j 20:13	21° ∺ 03'34		minimum elong	765 May 21 j 18:41	3° Ⅱ 29'00	
opposition	759 Sep 07 j 14:19	17° ∺ 36′28	-2°34'03	max. Earth dist.	765 May 22 j 01:15	3° Ⅱ 31′09	9.98687 AU
min. Earth dist.	759 Sep 07 j 16:42	17° ∺ 36′00	8.42635 AU	morning rise	765 Jun 08 j 22:11	5° Ⅱ 50'44	
direct	759 Nov 14 j 02:03	14° 升 14′05		retrograde	765 Sep 22 j 20:35	14° Ⅱ 13'09	
evening set	760 Feb 22 j 12:10	21°) 49′09		opposition	765 Nov 28 j 18:14	10° Ⅱ 43'29	-1°30'52
				min. Earth dist.	765 Nov 28 j 12:34	10° Ⅱ 44'39	7.98619 AU
conjunction	760 Mar 10 j 16:28	23° ¥ 58′30	-2°10'08	direct	766 Feb 03 j 06:31	7° Ⅱ 14'46	
minimum elong	760 Mar 10 j 16:27	23° ¥ 58′30	2°10'07	evening set	766 May 18 j 22:43	15° Ⅱ 31′03	
max. Earth dist.	760 Mar 10 j 13:49	23° ¥ 57'40	10.36471 AU				
morning rise	760 Mar 28 j 01:26	26°) €09'23		conjunction	766 Jun 06 j 03:06	17° Ⅱ 52'51	-0°57'41
	760 Apr 30 j 09:32	0° Υ		minimum elong	766 Jun 06 j 03:09	17° Ⅱ 52'52	0°57'42
retrograde	760 Jul 12 j 21:25	4° Y 12'50		max. Earth dist.	766 Jun 06 j 11:16	17° II 55'31	9.99222 AU
opposition	760 Sep 20 j 03:20	0° Ƴ 44'29	-2°46'38	morning rise	766 Jun 24 j 07:46	20° Ⅱ 14'46	
min. Earth dist.	760 Sep 20 j 04:18	0° Ƴ 44'17	8.30711 AU	retrograde	766 Oct 07 j 10:00	28° Ⅲ 32'36	
	760 Sep 29 j 12:15	30° ₹		opposition	766 Dec 13 j 01:26	25° Ⅱ 03'46	-0°52'13
direct	760 Nov 26 j 03:24	27° ¥ 20'53		min. Earth dist.	766 Dec 12 j 18:51	25° Ⅱ 05'08	8.00663 AU
anov	761 Jan 20 j 07:22	0°Υ		direct	767 Feb 17 j 20:46	21° I 34'35	0.00000 110
evening set	761 Mar 07 j 03:38	5° Υ 05'10		evening set	767 Jun 03 j 04:42	29° I [51'13	
evening sec	701 Mai 07 J 05.50	3 1 03 10		evening set	767 Jun 04 j 08:13	0°9	
conjunction	761 Mar 24 j 11:53	7° Ƴ 17'18	-2°16'37		707 Juli 04 J 00.15	0 O	
minimum elong	761 Mar 24 j 11:53	7° Υ 17'18		conjunction	767 Jun 21 j 09:52	2° © 12'39	0°25'16
max. Earth dist.	761 Mar 24 j 10:26		10.24970 AU	minimum elong	767 Jun 21 j 09:53	2° © 12'39	
		9° Υ 30'58	10.24970 AU	max. Earth dist.			10.02814 AU
morning rise	761 Apr 11 j 00:54				767 Jun 21 j 18:47		10.02814 AU
retrograde	761 Jul 27 j 04:35	17° Y 43'01 14° Y 13'39	2050121	morning rise	767 Jul 09 j 13:58	4°933'44	
opposition	761 Oct 03 j 22:26			retrograde	767 Oct 21 j 18:14	12°544'41	0010141
min. Earth dist.	761 Oct 03 j 22:20	14° Y 13'40	8.19849 AU	opposition	767 Dec 27 j 06:04	9°516'58	
direct	761 Dec 09 j 14:01	10° Y 48′50		min. Earth dist.	767 Dec 26 j 23:29	9° © 18'19	8.05659 AU
evening set	762 Mar 21 j 05:55	18° Ƴ 42'10		direct	768 Mar 03 j 11:19	5°9647'32	
				asc. node	768 Apr 01 j 20:19	6°534'13	
conjunction	762 Apr 07 j 18:38	20° ℃ 57'05		evening set	768 Jun 17 j 07:49	14° © 02'13	
minimum elong	762 Apr 07 j 18:39	20° Y 57′05					
max. Earth dist.	762 Apr 07 j 18:34		10.14868 AU	conjunction	768 Jul 05 j 11:56	16° © 22'19	0°08'25
morning rise	762 Apr 25 j 11:55	23° Y 13′27		minimum elong	768 Jul 05 j 11:56	16° © 22'19	0°08'24
	762 Jun 29 j 13:00	0° 8		behind sun begin	768 Jul 05 j 05:30	16° © 20'15	
retrograde	762 Aug 10 j 17:29	1° 8 32'09		behind sun end	768 Jul 05 j 18:21	16°524'22	
	762 Sep 22 j 08:07	30° ŖƳ		max. Earth dist.	768 Jul 05 j 20:19		10.09168 AU
opposition	762 Oct 17 j 22:40	28° Y ′02′09	-2°44'43	morning rise	768 Jul 23 j 13:49	18° © 41'40	
min. Earth dist.	762 Oct 17 j 21:38	28° Ƴ 02'21	8.10687 AU	retrograde	768 Nov 03 j 19:20	26°5944'04	
direct	762 Dec 23 j 08:09	24° Ƴ 36′08		opposition	769 Jan 09 j 06:29	23° © 17'39	0°30'50
	763 Mar 14 j 07:07	$_{0\circ}$ 8		min. Earth dist.	769 Jan 09 j 00:40	23° © 18'50	8.13195 AU
evening set	763 Apr 04 j 18:00	2° 8 37'44		direct	769 Mar 18 j 00:20	19° 5 048'15	
				evening set	769 Jul 02 j 05:09	27° © 59'03	
conjunction	763 Apr 22 j 11:27	4° 8 55'14	-2°06'48		769 Jul 18 j 01:34	$0^{\circ}\Omega$	
minimum elong	763 Apr 22 j 11:30	4° 8 55'15	2°06'48				
max. Earth dist.	763 Apr 22 j 13:30	4° 8 55'54	10.06788 AU	conjunction	769 Jul 20 j 06:33	0° Ω 16′59	0°40'59
morning rise	763 May 10 j 08:50	7° 8 14'00		minimum elong	769 Jul 20 j 06:31	0° Ω 16'58	0°40'59
	763 Jul 30 j 06:34	15° 8		max. Earth dist.	769 Jul 20 j 13:27	0° Ω 19'11	10.17750 AU
retrograde	763 Aug 25 j 10:06	15° 8 36'54		morning rise	769 Aug 07 j 04:46	2° Ω 33'52	
-	763 Sep 20 j 14:57	15° ₹ 8		retrograde	769 Nov 17 j 11:19	10° Ω 26'57	
opposition	763 Nov 01 j 03:10	12° 8 06'37	-2°28'59	opposition	770 Jan 23 j 01:57	7° Ω 01'58	1°09'41
min. Earth dist.	763 Nov 01 j 00:40		8.03812 AU	min. Earth dist.	770 Jan 22 j 21:03	7° Ω 02'58	8.22665 AU
direct	764 Jan 06 j 09:48	8° 8 39'31	,10	direct	770 Apr 01 j 10:34	3° Ω 32'58	
	764 Apr 04 j 05:01	15° 8		evening set	770 Jul 16 j 18:20	11° Ω 38'20	
evening set	764 Apr 18 j 14:12	16° 8 48'00				000020	
	. оттратој 14.12	10 00		conjunction	770 Aug 03 j 15:43	13° Ω 53'33	1°10'40
conjunction	764 May 06 j 12:14	19° 8 07'40	-1°50'12	minimum elong	770 Aug 03 j 15:40	13° Ω 53'32	
minimum elong	764 May 06 j 12:14	19° 8 07'40		max. Earth dist.	770 Aug 03 j 13.40 770 Aug 03 j 21:03		10.27939 AU
mmmum ciong	, 0 1 11 tay 00 j 12.10	17 00/71	1 50 12	max. Lui in tist.	, , o 1145 05 J 21.05	1000014	. U.Z () J) AU

	770 4 12:00.26	1500		. 1	777 F. L. 10 : 22 11	70 m 20146	
	770 Aug 12 j 09:36	15° Ω		retrograde	777 Feb 10 j 23:11	7°M38'46	
morning rise	770 Aug 21 j 09:09	16° Ω 07'30		opposition	777 Apr 21 j 06:40	4°M21'13	2°37'34
retrograde	770 Nov 30 j 19:12	23° Ω 51'13		min. Earth dist.	777 Apr 21 j 07:51	4°M21'00	8.97289 AU
opposition	771 Feb 05 j 15:50	20° Ω 27'43	1°43'44	direct	777 Jul 01 j 14:04	0° M 59′27	
min. Earth dist.	771 Feb 05 j 11:26	20° £ 28'36	8.33484 AU	evening set	777 Oct 12 j 22:04	8°M12'14	
direct	771 Apr 15 j 14:39	16° Ω 59'25					
evening set	771 Jul 30 j 22:01	24° Ω 58′08		conjunction	777 Oct 29 j 14:44	10°M09'54	2°03'09
				minimum elong	777 Oct 29 j 14:45	10°M09'55	2°03'08
conjunction	771 Aug 17 j 14:39	27° Ω 10′21	1°35'54	max. Earth dist.	777 Oct 29 j 12:41	10°ML09'18	11.00455 AU
minimum elong	771 Aug 17 j 14:36	27° Ω 10′20	1°35'53	morning rise	777 Nov 15 j 04:19	12°ML06'44	
max. Earth dist.	771 Aug 17 j 18:57	27° Ω 11'43	10.39209 AU	Č	777 Dec 11 j 14:02	15° M ₊	
morning rise	771 Sep 04 j 02:44	29° Ω 21'08		retrograde	778 Feb 22 j 16:30	19° M .04'49	
morning rise	771 Sep 09 j 10:21	0° m)		opposition	778 May 03 j 10:14	15° M .47'31	2°22'11
ratra ara da	771 Dec 13 j 20:34	6° Mp 55'44		min. Earth dist.		15°M47'06	9.03389 AU
retrograde	3		2011125	min. Earth dist.	778 May 03 j 12:29		9.03389 AU
opposition	772 Feb 18 j 23:47	3° m/33'38	2°11'25		778 May 14 j 04:59	15°RM	
min. Earth dist.	772 Feb 18 j 19:44	3° Mp 34'25	8.45138 AU	direct	778 Jul 13 j 17:37	12°M26'46	
direct	772 Apr 28 j 11:30	0°Mp06'15			778 Sep 09 j 15:37	15° M ₊	
evening set	772 Aug 12 j 15:15	7° m 57'26		evening set	778 Oct 24 j 10:00	19°M33'59	
conjunction	772 Aug 30 j 02:50	10° Mp 06'33	1°55'37	conjunction	778 Nov 10 j 01:03	21°M30'39	1°48'23
minimum elong	772 Aug 30 j 02:47	10° Mp 06'32	1°55'37	minimum elong	778 Nov 10 j 01:05	21°M30'40	1°48'23
max. Earth dist.	772 Aug 30 j 06:38	10° m 07'44	10.51041 AU	max. Earth dist.	778 Nov 09 j 21:36	21°M29'38	11.05539 AU
morning rise	772 Sep 16 j 09:28	12° m) 14'11		morning rise	778 Nov 26 j 13:55	23°M26'45	
retrograde	772 Dec 25 j 14:21	19° m 40'06			779 Feb 12 j 15:27	0° ∡ ¹	
opposition	773 Mar 03 j 01:59	16° m) 19'19	2°31'47	retrograde	779 Mar 06 j 07:46	0° ҂ ¹23'20	
min. Earth dist.	773 Mar 02 j 23:01	16° m) 19'53	8.57076 AU	C	779 Mar 28 j 07:08	30°RM₀	
direct	773 May 12 j 01:16	12° m 52'59		opposition	779 May 15 j 11:41	27°ML06'05	2°01'27
evening set	773 Aug 25 j 21:42	20° Mp 36'06		min. Earth dist.	779 May 15 j 15:26	27°ML05'23	9.07371 AU
evening set	773 Aug 23 j 21.42	20 11/3000		direct		23°M46'11	9.07371 AU
	772 G 12:04 12	220m. 42112	2000116	direct	779 Jul 25 j 18:15		
conjunction	773 Sep 12 j 04:13	22° m/42'13	2°09'16		779 Oct 28 j 13:00	0° ∡ ¹	
minimum elong	773 Sep 12 j 04:11	22° Mp 42'12	2°09'16	evening set	779 Nov 04 j 18:03	0° ≯ 49'08	
max. Earth dist.	773 Sep 12 j 06:54		10.62875 AU				
morning rise	773 Sep 29 j 05:45	24° Mp 46'52		conjunction	779 Nov 21 j 08:10	2° ∡ ¹45'15	1°29'32
	773 Nov 18 j 11:29	0∘ 亚		minimum elong	779 Nov 21 j 08:12	2° ∡ ¹45′16	1°29'32
retrograde	774 Jan 07 j 00:25	2° ഫ 04'55		max. Earth dist.	779 Nov 21 j 03:09	2° ∡ ¹43'47	11.08434 AU
	774 Feb 27 j 09:13	30°R, Mp		morning rise	779 Dec 07 j 21:04	4° ∡ ¹41'03	
opposition	774 Mar 15 j 22:35	28° m 45'17	2°44'24	retrograde	780 Mar 17 j 00:22	11° ₹ 37'41	
min. Earth dist.	774 Mar 15 j 21:10	28° m/ 45'33	8.68748 AU	opposition	780 May 26 j 11:53	8° ₹ ¹20'14	1°36'12
direct	774 May 25 j 08:55	25° m/20'05	0.00710710	min. Earth dist.	780 May 26 j 16:13	8°×19'26	9.09090 AU
direct	774 Aug 12 j 20:11	ე∘ ഹ		direct	780 Aug 05 j 16:11	5° × 101'04	7.07070 AC
	774 Aug 12 j 20:11 774 Sep 07 j 17:33	0 == 2° £ 54'58			780 Nov 14 j 23:46	12° ₹ '01'05	
evening set	774 Sep 07 j 17.33	2 = 34 36		evening set	780 NOV 14 J 23.40	12 × 01 03	
conjunction	774 Sep 24 j 19:23	4° £ 58'21	2°16'37	conjunction	780 Dec 01 j 13:43	13° × 757'07	1°07'19
minimum elong	774 Sep 24 j 19:22	4° £ 58'21	2°16'38	minimum elong	780 Dec 01 j 13:45	13° ∡ 757′08	1°07'19
max. Earth dist.	774 Sep 24 j 20:14		10.74188 AU	max. Earth dist.	780 Dec 01 j 08:34		11.09031 AU
morning rise	774 Oct 11 j 16:40	7° ⊆ 00'22	10.74100710	morning rise	780 Dec 18 j 03:06	15° ₹ 53'02	11.07031710
-	-			-	-		
retrograde	775 Jan 19 j 04:28	14° £ 11'32	2040110	retrograde	781 Mar 28 j 18:26	22° 🖈 51'20	1007110
opposition	775 Mar 28 j 13:49	10° ≙ 52'49	2°49'18	opposition	781 Jun 07 j 12:18	19° ∡ ³33′26	1°07'19
min. Earth dist.	775 Mar 28 j 13:52	10° ≏ 52'49	8.79640 AU	min. Earth dist.	781 Jun 07 j 16:24	19° ∡ ³32'41	9.08487 AU
direct	775 Jun 07 j 08:42	7° ≏ 28'47		direct	781 Aug 17 j 11:12	16° ≯ 14'50	
evening set	775 Sep 20 j 03:19	14° ≏ 55'40		evening set	781 Nov 26 j 04:57	23° х¹ 13′21	
. ,.	775 0 4 07 101 14	160 0 56140	2017140		701 D 12:10.11	250 700141	00.4212.0
conjunction	775 Oct 07 j 01:14	16° ≙ 56'42		conjunction	781 Dec 12 j 19:11	25°×709'41	0°42'29
minimum elong	775 Oct 07 j 01:14	16° ≏ 56'42		minimum elong	781 Dec 12 j 19:12	25° ₹ 09'42	0°42'29
max. Earth dist.	775 Oct 07 j 00:12	16° ≏ 56'23	10.84491 AU	max. Earth dist.	781 Dec 12 j 14:15		11.07300 AU
morning rise	775 Oct 23 j 19:11	18° ≏ 56'32		morning rise	781 Dec 29 j 09:33	27° ∡ ¹06′08	
retrograde	776 Jan 31 j 02:30	26° ₽ 01'59			782 Jan 25 j 01:24	0°ರ	
opposition	776 Apr 09 j 00:14	22° ≙ 43'57	2°46'50	retrograde	782 Apr 09 j 17:16	4° る 07'39	
min. Earth dist.	776 Apr 09 j 00:53	22° ₽ 43'50	8.89280 AU	opposition	782 Jun 19 j 13:54	0° ප 49'07	0°35'45
direct	776 Jun 19 j 02:18	19° ≏ 21'05		min. Earth dist.	782 Jun 19 j 18:16	0° る 48'19	9.05579 AU
evening set	776 Oct 01 j 04:22	26° £ 40'31			782 Jun 30 j 19:28	30°R ✓	-
	01 j 01.22			direct	782 Aug 29 j 05:17	27° ₹ 30'51	
conjunction	776 Oct 17 j 23:15	28° £ 39'37	2°13'09	direct	782 Oct 24 j 14:19	27 メ ・30 31	
	-			avanina aat	-		
minimum elong	776 Oct 17 j 23:16	28° <u>0</u> 39'37		evening set	782 Dec 07 j 11:40	4° る 29'25	
max. Earth dist.	776 Oct 17 j 21:36		10.93357 AU		700 D 04:00 05	(0 -7 0 (10-1	0015:50
	776 Oct 29 j 05:59	0°M		conjunction	782 Dec 24 j 02:25	6° る 26'26	0°15'52
morning rise	776 Nov 03 j 14:35	0° M 37'42		minimum elong	782 Dec 24 j 02:26	6° る 26'26	0°15'53

behind sun begin	782 Dec 24 j 00:51	6° る 25'58		direct	788 Nov 07 j 20:07	8° 升 52'34	
behind sun begin	782 Dec 24 j 00:31 782 Dec 24 j 04:00	6 323 38 6° 3 26'53		evening set	789 Feb 16 j 01:37	8 ★3234 16°¥22'19	
max. Earth dist.	782 Dec 24 j 04:00 782 Dec 23 j 20:29		11.03301 AU	evening set	/89 Feb 10 j 01.3/	10 /(22 19	
morning rise	782 Dec 23 j 20.29 783 Jan 09 j 18:20	8°る23'49	11.03301 AC	conjunction	789 Mar 05 j 04:01	18° ₩ 30'03	-2°05'01
retrograde	783 Apr 21 j 18:14	5° ろ 30'01		minimum elong	789 Mar 05 j 03:59	18° ₩ 30'02	2°05'00
opposition	783 Jul 01 j 17:30	13° ろ 10'39	0°02'30	max. Earth dist.	789 Mar 05 j 00:18		10.44781 AU
min. Earth dist.	783 Jul 01 j 22:40	12° ろ 09'42	9.00473 AU	morning rise	789 Mar 22 j 11:15	20° X 39'18	10.11701710
desc. node	783 Jul 29 j 14:21	12°るり12).001/31 1 0	retrograde	789 Jul 07 j 00:17	28° H 37'00	
direct	783 Sep 09 j 22:02	8° ਰ 52'27		opposition	789 Sep 14 j 13:02	25° ₩ 09'55	-2°41'48
evening set	783 Dec 18 j 21:24	15° ප 52'42		min. Earth dist.	789 Sep 14 j 15:30		8.38877 AU
evening sec	703 BCC 10 J 21.21	13 032 12		direct	789 Nov 20 j 18:53	21°) 47'32	0.50077710
conjunction	784 Jan 04 j 13:04	17° る 50'43	-0°11'42	evening set	790 Mar 01 j 11:22	29° ₩ 26'16	
minimum elong	784 Jan 04 j 13:04	17° る 50'43			790 Mar 05 j 23:32	0° Υ	
behind sun begin	784 Jan 04 j 08:03	17° る 49'14			77 T T T T T T T T T T T T T T T T T T		
behind sun end	784 Jan 04 j 18:04	17° ප 52'11		conjunction	790 Mar 18 j 17:38	1° Y 36'44	-2°14'28
max. Earth dist.	784 Jan 04 j 06:31		10.97175 AU	minimum elong	790 Mar 18 j 17:37	1° Y 36'43	
morning rise	784 Jan 21 j 06:52	19° る 49'22		max. Earth dist.	790 Mar 18 j 15:28	1° Ƴ 36′02	10.32885 AU
retrograde	784 May 03 j 00:32	27° ට 01'48		morning rise	790 Apr 05 j 04:37	3° Ƴ 48'43	
opposition	784 Jul 13 j 00:25	23° る 41'22	-0°31'20	retrograde	790 Jul 21 j 03:27	11° Y 55'34	
min. Earth dist.	784 Jul 13 j 05:46		8.93351 AU	opposition	790 Sep 28 j 04:28	8° Ƴ 27'19	-2°49'38
direct	784 Sep 20 j 19:27	20° පි 23'01		min. Earth dist.	790 Sep 28 j 05:33		8.27360 AU
evening set	784 Dec 29 j 11:40	27° る 26'27		direct	790 Dec 04 j 01:08	5° Ƴ 03'42	
8	, , , , , , , , , , , , , , , , , , ,			evening set	791 Mar 15 j 07:54	12° Y 51'33	
conjunction	785 Jan 15 j 04:44	29° る 25'49	-0°39'05	Č	,		
minimum elong	785 Jan 15 j 04:42	29° る 25'49	0°39'05	conjunction	791 Apr 01 j 18:28	15° Ƴ 04'50	-2°16'53
max. Earth dist.	785 Jan 14 j 23:08	29° る 24'09	10.89137 AU	minimum elong	791 Apr 01 j 18:29	15° Ƴ 04'50	2°16'53
	785 Jan 19 j 22:43	0° ≈		max. Earth dist.	791 Apr 01 j 18:06	15° Ƴ 04'43	10.21874 AU
morning rise	785 Feb 01 j 00:32	1°≈26'03		morning rise	791 Apr 19 j 09:27	17° Ƴ 19'34	
retrograde	785 May 15 j 14:46	8° ≈ 46'03		retrograde	791 Aug 04 j 14:05	25° Ƴ 34'06	
opposition	785 Jul 25 j 11:23	5° ≈ 24'24	-1°04'30	opposition	791 Oct 12 j 01:29	22° Ƴ 04'55	-2°48'15
min. Earth dist.	785 Jul 25 j 15:45	5° ≈ 23'35	8.84472 AU	min. Earth dist.	791 Oct 12 j 00:54	22° Y 05'02	8.17082 AU
direct	785 Oct 02 j 18:48	2° ≈ 05'42		direct	791 Dec 17 j 13:53	18° Ƴ 39'59	
evening set	786 Jan 10 j 08:24	9° ≈ 13'46		evening set	792 Mar 28 j 14:37	26° Ƴ 36'32	
conjunction	786 Jan 27 j 03:12	11° ≈ 14'49		conjunction	792 Apr 15 j 05:48	28° Y 52'31	
minimum elong	786 Jan 27 j 03:10	11° ≈ 14'49	1°05'19	minimum elong	792 Apr 15 j 05:50	28° Ƴ 52'32	2°11'38
minimum elong max. Earth dist.	786 Jan 27 j 03:10 786 Jan 26 j 22:30	11° ≈ 14'49		•	792 Apr 15 j 05:50 792 Apr 15 j 07:02	28° Y 52'32 28° Y 52'55	
minimum elong	786 Jan 27 j 03:10 786 Jan 26 j 22:30 786 Feb 13 j 01:16	11°≈14'49 11°≈13'24 13°≈16'56	1°05'19	minimum elong max. Earth dist.	792 Apr 15 j 05:50 792 Apr 15 j 07:02 792 Apr 23 j 22:35	28°Y52'32 28°Y52'55 0°8	2°11'38
minimum elong max. Earth dist. morning rise	786 Jan 27 j 03:10 786 Jan 26 j 22:30 786 Feb 13 j 01:16 786 Feb 27 j 22:22	11°≈14'49 11°≈13'24 13°≈16'56 15°≈	1°05'19	minimum elong max. Earth dist. morning rise	792 Apr 15 j 05:50 792 Apr 15 j 07:02 792 Apr 23 j 22:35 792 May 03 j 00:58	28°Y52'32 28°Y52'55 0°8 1°809'51	2°11'38
minimum elong max. Earth dist. morning rise retrograde	786 Jan 27 j 03:10 786 Jan 26 j 22:30 786 Feb 13 j 01:16 786 Feb 27 j 22:22 786 May 28 j 11:41	11°≈14'49 11°≈13'24 13°≈16'56 15°≈ 20°≈45'34	1°05'19 10.79482 AU	minimum elong max. Earth dist. morning rise retrograde	792 Apr 15 j 05:50 792 Apr 15 j 07:02 792 Apr 23 j 22:35 792 May 03 j 00:58 792 Aug 18 j 04:58	28°Y52'32 28°Y52'55 0°8 1°809'51 9°829'50	2°11'38 10.12477 AU
minimum elong max. Earth dist. morning rise retrograde opposition	786 Jan 27 j 03:10 786 Jan 26 j 22:30 786 Feb 13 j 01:16 786 Feb 27 j 22:22 786 May 28 j 11:41 786 Aug 07 j 03:05	11°≈14'49 11°≈13'24 13°≈16'56 15°≈ 20°≈45'34 17°≈22'35	1°05'19 10.79482 AU -1°35'39	minimum elong max. Earth dist. morning rise retrograde opposition	792 Apr 15 j 05:50 792 Apr 15 j 07:02 792 Apr 23 j 22:35 792 May 03 j 00:58 792 Aug 18 j 04:58 792 Oct 25 j 03:12	28°Y52'32 28°Y52'55 0°B 1°B09'51 9°B29'50 6°B00'01	2°11'38 10.12477 AU -2°37'04
minimum elong max. Earth dist. morning rise retrograde	786 Jan 27 j 03:10 786 Jan 26 j 22:30 786 Feb 13 j 01:16 786 Feb 27 j 22:22 786 May 28 j 11:41 786 Aug 07 j 03:05 786 Aug 07 j 06:34	11°≈14'49 11°≈13'24 13°≈16'56 15°≈ 20°≈45'34 17°≈22'35 17°≈21'55	1°05'19 10.79482 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	792 Apr 15 j 05:50 792 Apr 15 j 07:02 792 Apr 23 j 22:35 792 May 03 j 00:58 792 Aug 18 j 04:58 792 Oct 25 j 03:12 792 Oct 25 j 01:17	28°Y52'32 28°Y52'55 0°8 1°809'51 9°829'50 6°800'01 6°800'25	2°11'38 10.12477 AU
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	786 Jan 27 j 03:10 786 Jan 26 j 22:30 786 Feb 13 j 01:16 786 Feb 27 j 22:22 786 May 28 j 11:41 786 Aug 07 j 03:05 786 Aug 07 j 06:34 786 Sep 11 j 00:17	11°≈14'49 11°≈13'24 13°≈16'56 15°≈ 20°≈45'34 17°≈22'35 17°≈21'55 15°R≈	1°05'19 10.79482 AU -1°35'39	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	792 Apr 15 j 05:50 792 Apr 15 j 07:02 792 Apr 23 j 22:35 792 May 03 j 00:58 792 Aug 18 j 04:58 792 Oct 25 j 03:12 792 Oct 25 j 01:17 792 Dec 30 j 10:50	28°Y52'32 28°Y52'55 0°8 1°809'51 9°829'50 6°800'01 6°800'25 2°833'48	2°11'38 10.12477 AU -2°37'04
minimum elong max. Earth dist. morning rise retrograde opposition	786 Jan 27 j 03:10 786 Jan 26 j 22:30 786 Feb 13 j 01:16 786 Feb 27 j 22:22 786 May 28 j 11:41 786 Aug 07 j 03:05 786 Aug 07 j 06:34 786 Sep 11 j 00:17 786 Oct 14 j 21:08	11°≈14'49 11°≈13'24 13°≈16'56 15°≈ 20°≈45'34 17°≈22'35 17°≈21'55 15°R≈ 14°≈03'17	1°05'19 10.79482 AU -1°35'39	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	792 Apr 15 j 05:50 792 Apr 15 j 07:02 792 Apr 23 j 22:35 792 May 03 j 00:58 792 Aug 18 j 04:58 792 Oct 25 j 03:12 792 Oct 25 j 01:17	28°Y52'32 28°Y52'55 0°8 1°809'51 9°829'50 6°800'01 6°800'25	2°11'38 10.12477 AU -2°37'04
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	786 Jan 27 j 03:10 786 Jan 26 j 22:30 786 Feb 13 j 01:16 786 Feb 27 j 22:22 786 May 28 j 11:41 786 Aug 07 j 03:05 786 Aug 07 j 06:34 786 Sep 11 j 00:17 786 Oct 14 j 21:08 786 Nov 17 j 01:01	11°≈14'49 11°≈13'24 13°≈16'56 15°≈ 20°≈45'34 17°≈22'35 17°≈21'55 15°R≈ 14°≈03'17 15°≈	1°05'19 10.79482 AU -1°35'39	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	792 Apr 15 j 05:50 792 Apr 15 j 07:02 792 Apr 23 j 22:35 792 May 03 j 00:58 792 Aug 18 j 04:58 792 Oct 25 j 03:12 792 Oct 25 j 01:17 792 Dec 30 j 10:50 793 Apr 12 j 06:18	28°Y52'32 28°Y52'55 0°8 1°809'51 9°829'50 6°800'01 6°800'25 2°833'48 10°837'59	2°11'38 10.12477 AU -2°37'04 8.08727 AU
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	786 Jan 27 j 03:10 786 Jan 26 j 22:30 786 Feb 13 j 01:16 786 Feb 27 j 22:22 786 May 28 j 11:41 786 Aug 07 j 03:05 786 Aug 07 j 06:34 786 Sep 11 j 00:17 786 Oct 14 j 21:08	11°≈14'49 11°≈13'24 13°≈16'56 15°≈ 20°≈45'34 17°≈22'35 17°≈21'55 15°R≈ 14°≈03'17	1°05'19 10.79482 AU -1°35'39	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	792 Apr 15 j 05:50 792 Apr 15 j 07:02 792 Apr 23 j 22:35 792 May 03 j 00:58 792 Aug 18 j 04:58 792 Oct 25 j 03:12 792 Oct 25 j 01:17 792 Dec 30 j 10:50 793 Apr 12 j 06:18	28°Y52'32 28°Y52'55 0°8 1°809'51 9°829'50 6°800'01 6°800'25 2°833'48 10°837'59	2°11'38 10.12477 AU -2°37'04 8.08727 AU -1°58'32
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	786 Jan 27 j 03:10 786 Jan 26 j 22:30 786 Feb 13 j 01:16 786 Feb 27 j 22:22 786 May 28 j 11:41 786 Aug 07 j 03:05 786 Aug 07 j 06:34 786 Sep 11 j 00:17 786 Oct 14 j 21:08 786 Nov 17 j 01:01 787 Jan 22 j 12:58	11°≈14'49 11°≈13'24 13°≈16'56 15°≈ 20°≈45'34 17°≈22'35 17°≈21'55 15°R≈ 14°≈03'17 15°≈ 21°≈17'27	1°05'19 10.79482 AU -1°35'39 8.74169 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	792 Apr 15 j 05:50 792 Apr 15 j 07:02 792 Apr 23 j 22:35 792 May 03 j 00:58 792 Aug 18 j 04:58 792 Oct 25 j 03:12 792 Oct 25 j 01:17 792 Dec 30 j 10:50 793 Apr 30 j 02:06 793 Apr 30 j 02:10	28°Y52'32 28°Y52'55 0°8 1°809'51 9°829'50 6°800'01 6°800'25 2°833'48 10°837'59 12°856'23 12°856'24	2°11'38 10.12477 AU -2°37'04 8.08727 AU -1°58'32 1°58'32
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction	786 Jan 27 j 03:10 786 Jan 26 j 22:30 786 Feb 13 j 01:16 786 Feb 27 j 22:22 786 May 28 j 11:41 786 Aug 07 j 03:05 786 Aug 07 j 06:34 786 Sep 11 j 00:17 786 Oct 14 j 21:08 786 Nov 17 j 01:01 787 Jan 22 j 12:58	11°≈14'49 11°≈13'24 13°≈16'56 15°≈ 20°≈45'34 17°≈22'35 17°≈21'55 15°8≈ 14°≈03'17 15°≈ 21°≈17'27	1°05'19 10.79482 AU -1°35'39 8.74169 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	792 Apr 15 j 05:50 792 Apr 15 j 07:02 792 Apr 23 j 22:35 792 May 03 j 00:58 792 Aug 18 j 04:58 792 Oct 25 j 03:12 792 Oct 25 j 01:17 792 Dec 30 j 10:50 793 Apr 12 j 06:18 793 Apr 30 j 02:06 793 Apr 30 j 02:10 793 Apr 30 j 04:34	28°Y52'32 28°Y52'55 0°8 1°809'51 9°829'50 6°800'01 6°800'25 2°833'48 10°837'59 12°856'23 12°856'24 12°857'11	2°11'38 10.12477 AU -2°37'04 8.08727 AU -1°58'32
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong	786 Jan 27 j 03:10 786 Jan 26 j 22:30 786 Feb 13 j 01:16 786 Feb 27 j 22:22 786 May 28 j 11:41 786 Aug 07 j 03:05 786 Aug 07 j 06:34 786 Sep 11 j 00:17 786 Oct 14 j 21:08 786 Nov 17 j 01:01 787 Jan 22 j 12:58 787 Feb 08 j 09:45 787 Feb 08 j 09:42	11°≈14'49 11°≈13'24 13°≈16'56 15°≈ 20°≈45'34 17°≈22'35 17°≈21'55 15°R≈ 14°≈03'17 15°≈ 21°≈17'27 23°≈20'28 23°≈20'28	1°05'19 10.79482 AU -1°35'39 8.74169 AU -1°29'13 1°29'12	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	792 Apr 15 j 05:50 792 Apr 15 j 07:02 792 Apr 23 j 22:35 792 May 03 j 00:58 792 Aug 18 j 04:58 792 Oct 25 j 03:12 792 Oct 25 j 01:17 792 Dec 30 j 10:50 793 Apr 12 j 06:18 793 Apr 30 j 02:06 793 Apr 30 j 02:10 793 Apr 30 j 04:34 793 May 15 j 23:35	28°Y52'32 28°Y52'55 0°8 1°809'51 9°829'50 6°800'01 6°800'25 2°833'48 10°837'59 12°856'24 12°857'11 15°8	2°11'38 10.12477 AU -2°37'04 8.08727 AU -1°58'32 1°58'32
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	786 Jan 27 j 03:10 786 Jan 26 j 22:30 786 Feb 13 j 01:16 786 Feb 27 j 22:22 786 May 28 j 11:41 786 Aug 07 j 03:05 786 Aug 07 j 06:34 786 Sep 11 j 00:17 786 Oct 14 j 21:08 786 Nov 17 j 01:01 787 Jan 22 j 12:58 787 Feb 08 j 09:45 787 Feb 08 j 09:42 787 Feb 08 j 05:06	11°≈14'49 11°≈13'24 13°≈16'56 15°≈ 20°≈45'34 17°≈22'35 17°≈21'55 15°R≈ 14°≈03'17 15°≈ 21°≈17'27 23°≈20'28 23°≈20'27 23°≈19'03	1°05'19 10.79482 AU -1°35'39 8.74169 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	792 Apr 15 j 05:50 792 Apr 15 j 07:02 792 Apr 23 j 22:35 792 May 03 j 00:58 792 Aug 18 j 04:58 792 Oct 25 j 03:12 792 Oct 25 j 01:17 792 Dec 30 j 10:50 793 Apr 12 j 06:18 793 Apr 30 j 02:06 793 Apr 30 j 02:10 793 Apr 30 j 04:34 793 May 15 j 23:35 793 May 18 j 01:17	28°Y52'32 28°Y52'55 0°8 1°809'51 9°829'50 6°800'01 6°800'25 2°833'48 10°837'59 12°856'24 12°857'11 15°8 15°815'54	2°11'38 10.12477 AU -2°37'04 8.08727 AU -1°58'32 1°58'32
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minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction	786 Jan 27 j 03:10 786 Jan 26 j 22:30 786 Feb 13 j 01:16 786 Feb 27 j 22:22 786 May 28 j 11:41 786 Aug 07 j 03:05 786 Aug 07 j 06:34 786 Sep 11 j 00:17 786 Oct 14 j 21:08 786 Nov 17 j 01:01 787 Jan 22 j 12:58 787 Feb 08 j 09:42 787 Feb 08 j 09:42 787 Feb 08 j 09:42 787 Feb 08 j 05:06 787 Feb 25 j 10:31 787 Apr 09 j 00:37 787 Jun 10 j 16:35 787 Aug 20 j 00:22 787 Aug 20 j 00:22 788 Jan 02 j 12:21 788 Feb 04 j 02:20	11°≈14'49 11°≈13'24 13°≈16'56 15°≈ 20°≈45'34 17°≈22'35 17°≈21'55 15°R≈ 14°≈03'17 15°≈ 21°≈17'27 23°≈20'28 23°≈20'27 23°≈19'03 25°≈24'43 0° \tau 3°\tau 3°\tau 29°≈38'25 29°≈37'49 26°≈18'16 0°\tau 3°\tau 3°\tau 3°\tau 44'58	1°05'19 10.79482 AU -1°35'39 8.74169 AU -1°29'13 1°29'12 10.68583 AU -2°03'17 8.62834 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. direct evening set	792 Apr 15 j 05:50 792 Apr 15 j 07:02 792 Apr 23 j 22:35 792 May 03 j 00:58 792 Aug 18 j 04:58 792 Oct 25 j 03:12 792 Oct 25 j 01:17 792 Dec 30 j 10:50 793 Apr 12 j 06:18 793 Apr 30 j 02:06 793 Apr 30 j 02:06 793 Apr 30 j 04:34 793 Apr 30 j 04:34 793 May 15 j 23:35 793 May 18 j 01:17 793 Sep 01 j 21:43 793 Nov 08 j 08:17 793 Nov 08 j 05:36 794 Jan 13 j 15:22 794 Apr 27 j 05:11 794 May 15 j 05:08 794 May 15 j 05:08 794 May 15 j 05:08 794 Jun 02 j 07:31 794 Jun 02 j 07:31 794 Jun 05 j 21:15	28°Y52'32 28°Y52'55 0°8 1°809'51 9°829'50 6°800'01 6°800'25 2°833'48 10°837'59 12°856'24 12°856'24 12°857'11 15°8 15°815'54 23°838'37 20°808'33 20°809'06 16°841'07 24°851'21 27°811'39 27°812'49 29°832'41 0°II	2°11'38 10.12477 AU -2°37'04 8.08727 AU -1°58'32 10.05318 AU -2°16'13 8.02842 AU -1°38'06 1°38'06
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction min. Earth dist. direct	786 Jan 27 j 03:10 786 Jan 26 j 22:30 786 Feb 13 j 01:16 786 Feb 27 j 22:22 786 May 28 j 11:41 786 Aug 07 j 03:05 786 Aug 07 j 06:34 786 Sep 11 j 00:17 786 Oct 14 j 21:08 786 Nov 17 j 01:01 787 Jan 22 j 12:58 787 Feb 08 j 09:42 787 Feb 25 j 10:31 787 Apr 09 j 00:37 787 Jun 10 j 16:35 787 Aug 20 j 00:22 787 Aug 20 j 00:22 787 Aug 20 j 03:32 787 Oct 27 j 05:27 788 Jan 02 j 12:21 788 Feb 04 j 02:20 788 Feb 21 j 01:33 788 Feb 21 j 01:33	11°≈14'49 11°≈13'24 13°≈16'56 15°≈ 20°≈45'34 17°≈22'35 17°≈21'55 15°R≈ 14°≈03'17 15°≈ 21°≈17'27 23°≈20'28 23°≈20'27 23°≈19'03 25°≈24'43 0° H 3° H02'47 30°R≈ 29°≈38'25 29°≈37'49 26°≈18'16 0° H 3° H39'44 5° H44'58 5° H44'58	1°05'19 10.79482 AU -1°35'39 8.74169 AU -1°29'13 1°29'12 10.68583 AU -2°03'17 8.62834 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	792 Apr 15 j 05:50 792 Apr 15 j 07:02 792 Apr 23 j 22:35 792 May 03 j 00:58 792 Aug 18 j 04:58 792 Oct 25 j 03:12 792 Oct 25 j 01:17 792 Dec 30 j 10:50 793 Apr 12 j 06:18 793 Apr 30 j 02:06 793 Apr 30 j 02:10 793 Apr 30 j 04:34 793 Apr 30 j 04:34 793 May 15 j 23:35 793 May 18 j 01:17 793 Sep 01 j 21:43 793 Nov 08 j 08:17 793 Nov 08 j 05:36 794 Jan 13 j 15:22 794 Apr 27 j 05:11 794 May 15 j 05:08 794 May 15 j 05:08 794 May 15 j 08:47 794 Jun 02 j 07:31 794 Sep 16 j 13:29	28°Y52'32 28°Y52'35 0°B 1°B09'51 9°B29'50 6°B00'01 6°B00'25 2°B33'48 10°B37'59 12°B56'23 12°B56'24 12°B57'11 15°B 15°B15'54 23°B38'37 20°B08'33 20°B09'06 16°B41'07 24°B51'21 27°B11'37 27°B11'39 27°B12'49 29°B32'41 0°II 7°II55'10	2°11'38 10.12477 AU -2°37'04 8.08727 AU -1°58'32 10.05318 AU -2°16'13 8.02842 AU -1°38'06 1°38'06 10.00857 AU
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction min. Earth dist. direct evening set conjunction min. Earth dist. direct	786 Jan 27 j 03:10 786 Jan 26 j 22:30 786 Feb 13 j 01:16 786 Feb 27 j 22:22 786 May 28 j 11:41 786 Aug 07 j 03:05 786 Aug 07 j 06:34 786 Sep 11 j 00:17 786 Oct 14 j 21:08 786 Nov 17 j 01:01 787 Jan 22 j 12:58 787 Feb 08 j 09:42 787 Feb 08 j 09:42 787 Feb 08 j 09:42 787 Feb 08 j 09:31 787 Apr 09 j 00:37 787 Jun 10 j 16:35 787 Aug 20 j 00:22 787 Aug 20 j 00:22 787 Aug 20 j 00:22 788 Jan 02 j 12:21 788 Feb 04 j 02:20 788 Feb 21 j 01:33 788 Feb 21 j 01:31 788 Feb 20 j 20:54	11°≈14'49 11°≈13'24 13°≈16'56 15°≈ 20°≈45'34 17°≈22'35 17°≈21'55 15°R≈ 14°≈03'17 15°≈ 21°≈17'27 23°≈20'28 23°≈20'27 23°≈19'03 25°≈24'43 0°	1°05'19 10.79482 AU -1°35'39 8.74169 AU -1°29'13 1°29'12 10.68583 AU -2°03'17 8.62834 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	792 Apr 15 j 05:50 792 Apr 15 j 07:02 792 Apr 23 j 22:35 792 May 03 j 00:58 792 Aug 18 j 04:58 792 Oct 25 j 03:12 792 Oct 25 j 01:17 792 Dec 30 j 10:50 793 Apr 12 j 06:18 793 Apr 30 j 02:06 793 Apr 30 j 02:10 793 Apr 30 j 04:34 793 Apr 30 j 04:34 793 May 15 j 23:35 793 May 18 j 01:17 793 Sep 01 j 21:43 793 Nov 08 j 08:17 793 Nov 08 j 05:36 794 Jan 13 j 15:22 794 Apr 27 j 05:11 794 May 15 j 05:08 794 May 15 j 05:08 794 May 15 j 08:47 794 Jun 02 j 07:31 794 Sep 16 j 13:29 794 Nov 22 j 15:00	28°Y52'32 28°Y52'55 0°B 1°B09'51 9°B29'50 6°B00'01 6°B00'25 2°B33'48 10°B37'59 12°B56'24 12°B56'24 12°B57'11 15°B 15°B15'54 23°B38'37 20°B08'33 20°B09'06 16°B41'07 24°B51'21 27°B11'37 27°B11'39 27°B12'49 29°B32'41 0°II 7°II55'10 4°II25'15	2°11'38 10.12477 AU -2°37'04 8.08727 AU -1°58'32 1°58'32 10.05318 AU -2°16'13 8.02842 AU -1°38'06 10.00857 AU
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. direct	786 Jan 27 j 03:10 786 Jan 26 j 22:30 786 Feb 13 j 01:16 786 Feb 27 j 22:22 786 May 28 j 11:41 786 Aug 07 j 03:05 786 Aug 07 j 06:34 786 Sep 11 j 00:17 786 Oct 14 j 21:08 786 Nov 17 j 01:01 787 Jan 22 j 12:58 787 Feb 08 j 09:42 787 Feb 08 j 09:42 787 Feb 08 j 09:42 787 Feb 08 j 05:06 787 Feb 25 j 10:31 787 Apr 09 j 00:37 787 Jun 10 j 16:35 787 Aug 15 j 07:57 787 Aug 20 j 00:22 787 Aug 20 j 00:22 787 Aug 20 j 03:32 787 Oct 27 j 05:27 788 Jan 02 j 12:21 788 Feb 04 j 02:20 788 Feb 21 j 01:33 788 Feb 21 j 01:31 788 Feb 20 j 20:54 788 Mar 09 j 05:24	11°≈14'49 11°≈13'24 13°≈16'56 15°≈ 20°≈45'34 17°≈22'35 17°≈21'55 15°R≈ 14°≈03'17 15°≈ 21°≈17'27 23°≈20'28 23°≈20'27 23°≈19'03 25°≈24'43 0°	1°05'19 10.79482 AU -1°35'39 8.74169 AU -1°29'13 1°29'12 10.68583 AU -2°03'17 8.62834 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. morning rise	792 Apr 15 j 05:50 792 Apr 15 j 07:02 792 Apr 23 j 22:35 792 May 03 j 00:58 792 Aug 18 j 04:58 792 Oct 25 j 03:12 792 Oct 25 j 01:17 792 Dec 30 j 10:50 793 Apr 12 j 06:18 793 Apr 30 j 02:06 793 Apr 30 j 02:10 793 Apr 30 j 04:34 793 May 15 j 23:35 793 May 18 j 01:17 793 Sep 01 j 21:43 793 Nov 08 j 08:17 793 Nov 08 j 08:17 793 Nov 08 j 05:36 794 Jan 13 j 15:22 794 Apr 27 j 05:11 794 May 15 j 05:08 794 May 15 j 05:08 794 May 15 j 05:08 794 May 15 j 05:11 794 May 15 j 05:11 794 May 15 j 05:11 794 Jun 02 j 07:31 794 Jun 05 j 21:15 794 Sep 16 j 13:29 794 Nov 22 j 15:00 794 Nov 22 j 11:37	28°Y52'32 28°Y52'55 0°8 1°809'51 9°829'50 6°800'01 6°800'25 2°833'48 10°837'59 12°856'24 12°856'24 12°857'11 15°8 15°815'54 23°838'37 20°808'33 20°809'06 16°841'07 24°851'21 27°811'37 27°811'39 27°812'49 29°832'41 0°II 7°II55'10 4°II25'58	2°11'38 10.12477 AU -2°37'04 8.08727 AU -1°58'32 10.05318 AU -2°16'13 8.02842 AU -1°38'06 1°38'06 10.00857 AU
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	786 Jan 27 j 03:10 786 Jan 26 j 22:30 786 Feb 13 j 01:16 786 Feb 27 j 22:22 786 May 28 j 11:41 786 Aug 07 j 03:05 786 Aug 07 j 06:34 786 Sep 11 j 00:17 786 Oct 14 j 21:08 786 Nov 17 j 01:01 787 Jan 22 j 12:58 787 Feb 08 j 09:42 787 Feb 08 j 09:42 787 Feb 08 j 09:42 787 Feb 08 j 05:06 787 Feb 25 j 10:31 787 Apr 09 j 00:37 787 Jun 10 j 16:35 787 Aug 20 j 00:22 787 Aug 20 j 00:22 787 Aug 20 j 03:32 787 Oct 27 j 05:27 788 Jan 02 j 12:21 788 Feb 04 j 02:20 788 Feb 21 j 01:31 788 Feb 20 j 20:54 788 Mar 09 j 05:24 788 Jun 23 j 04:47	11°≈14'49 11°≈13'24 13°≈16'56 15°≈ 20°≈45'34 17°≈22'35 17°≈21'55 15°R≈ 14°≈03'17 15°≈ 21°≈17'27 23°≈20'28 23°≈20'27 23°≈19'03 25°≈24'43 0° H 3° H02'47 30°R≈ 29°≈38'25 29°≈37'49 26°≈18'16 0° H 3° H39'44 5° H44'57 5° H44'57 5° H43'31 7° H51'38 15° H39'32	1°05'19 10.79482 AU -1°35'39 8.74169 AU -1°29'13 1°29'12 10.68583 AU -2°03'17 8.62834 AU -1°49'31 10.56862 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. morning rise	792 Apr 15 j 05:50 792 Apr 15 j 07:02 792 Apr 23 j 22:35 792 May 03 j 00:58 792 Aug 18 j 04:58 792 Oct 25 j 03:12 792 Oct 25 j 01:17 792 Dec 30 j 10:50 793 Apr 12 j 06:18 793 Apr 30 j 02:06 793 Apr 30 j 02:10 793 Apr 30 j 02:10 793 Apr 30 j 04:34 793 May 15 j 23:35 793 May 18 j 01:17 793 Sep 01 j 21:43 793 Nov 08 j 08:17 793 Nov 08 j 08:17 793 Nov 08 j 05:36 794 Jan 13 j 15:22 794 Apr 27 j 05:11 794 May 15 j 05:08 794 May 15 j 05:08 794 May 15 j 05:08 794 Jun 02 j 07:31 794 Jun 02 j 07:31 794 Jun 05 j 21:15 794 Sep 16 j 13:29 794 Nov 22 j 11:37 795 Jan 28 j 01:26	28°Y52'32 28°Y52'55 0°8 1°809'51 9°829'50 6°800'01 6°800'25 2°833'48 10°837'59 12°856'24 12°856'24 12°857'11 15°8 15°815'54 23°838'37 20°808'33 20°809'06 16°841'07 24°851'21 27°811'37 27°812'49 29°832'41 0°II 7°II55'10 4°II25'58 0°II56'47	2°11'38 10.12477 AU -2°37'04 8.08727 AU -1°58'32 1°58'32 10.05318 AU -2°16'13 8.02842 AU -1°38'06 10.00857 AU
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. direct	786 Jan 27 j 03:10 786 Jan 26 j 22:30 786 Feb 13 j 01:16 786 Feb 27 j 22:22 786 May 28 j 11:41 786 Aug 07 j 03:05 786 Aug 07 j 06:34 786 Sep 11 j 00:17 786 Oct 14 j 21:08 786 Nov 17 j 01:01 787 Jan 22 j 12:58 787 Feb 08 j 09:42 787 Feb 08 j 09:42 787 Feb 08 j 09:42 787 Feb 08 j 05:06 787 Feb 25 j 10:31 787 Apr 09 j 00:37 787 Jun 10 j 16:35 787 Aug 15 j 07:57 787 Aug 20 j 00:22 787 Aug 20 j 00:22 787 Aug 20 j 03:32 787 Oct 27 j 05:27 788 Jan 02 j 12:21 788 Feb 04 j 02:20 788 Feb 21 j 01:33 788 Feb 21 j 01:31 788 Feb 20 j 20:54 788 Mar 09 j 05:24	11°≈14'49 11°≈13'24 13°≈16'56 15°≈ 20°≈45'34 17°≈22'35 17°≈21'55 15°R≈ 14°≈03'17 15°≈ 21°≈17'27 23°≈20'28 23°≈20'27 23°≈19'03 25°≈24'43 0° H 3° H02'47 30°R≈ 29°≈38'25 29°≈37'49 26°≈18'16 0° H 3° H39'44 5° H44'58 5° H44'57 5° H43'31 7° H51'38 15° H39'32 12° H13'46	1°05'19 10.79482 AU -1°35'39 8.74169 AU -1°29'13 1°29'12 10.68583 AU -2°03'17 8.62834 AU -1°49'31 10.56862 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. morning rise	792 Apr 15 j 05:50 792 Apr 15 j 07:02 792 Apr 23 j 22:35 792 May 03 j 00:58 792 Aug 18 j 04:58 792 Oct 25 j 03:12 792 Oct 25 j 01:17 792 Dec 30 j 10:50 793 Apr 12 j 06:18 793 Apr 30 j 02:06 793 Apr 30 j 02:10 793 Apr 30 j 04:34 793 May 15 j 23:35 793 May 18 j 01:17 793 Sep 01 j 21:43 793 Nov 08 j 08:17 793 Nov 08 j 08:17 793 Nov 08 j 05:36 794 Jan 13 j 15:22 794 Apr 27 j 05:11 794 May 15 j 05:08 794 May 15 j 05:08 794 May 15 j 05:08 794 May 15 j 05:11 794 May 15 j 05:11 794 May 15 j 05:11 794 Jun 02 j 07:31 794 Jun 05 j 21:15 794 Sep 16 j 13:29 794 Nov 22 j 15:00 794 Nov 22 j 11:37	28°Y52'32 28°Y52'55 0°8 1°809'51 9°829'50 6°800'01 6°800'25 2°833'48 10°837'59 12°856'24 12°856'24 12°857'11 15°8 15°815'54 23°838'37 20°808'33 20°809'06 16°841'07 24°851'21 27°811'37 27°811'39 27°812'49 29°832'41 0°II 7°II55'10 4°II25'58	2°11'38 10.12477 AU -2°37'04 8.08727 AU -1°58'32 1°58'32 10.05318 AU -2°16'13 8.02842 AU -1°38'06 10.00857 AU

conjunction	795 May 30 j 11:44	11° Ⅲ 32′26	-1°11'31	retrograde	800 Dec 07 j 05:32	1° m 08'41	
minimum elong	795 May 30 j 11:47	11° Ⅱ 32'27	1°11'32		801 Jan 12 j 10:52	30° R Ω	
max. Earth dist.	795 May 30 j 16:35	11° Ⅲ 34′01	9.99387 AU	opposition	801 Feb 12 j 05:05	27° Ω 45'25	1°59'19
morning rise	795 Jun 17 j 16:06	13° Ⅱ 54'11		min. Earth dist.	801 Feb 12 j 01:05	27° Ω 46′13	8.38656 AU
retrograde	795 Oct 01 j 02:52	22° Ⅱ 13'36		direct	801 Apr 22 j 10:08	24° Ω 17'05	
opposition	795 Dec 06 j 21:47	18° ∏ 44'12	-1°10'32		801 Jul 19 j 01:36	0° m)	
min. Earth dist.	795 Dec 06 j 27:47		7.99842 AU	evening set	801 Aug 06 j 16:24	2°Mp11'55	
	-	16 Ⅱ 43 03	7.99642 AU	evening set	801 Aug 00 J 10.24	2 IIV1133	
direct	796 Feb 11 j 14:23				001 4 04:0601	40 m. 20122	1047104
evening set	796 May 26 j 13:40	23° Ⅱ 30′56		conjunction	801 Aug 24 j 06:21	4° m/22'33	1°47'04
				minimum elong	801 Aug 24 j 06:18	4° Mp 22'32	1°47'04
conjunction	796 Jun 13 j 18:33	25° Ⅱ 52'32	-0°40'32	max. Earth dist.	801 Aug 24 j 10:35	4° Mp 23′52	10.44624 AU
minimum elong	796 Jun 13 j 18:35	25° Ⅱ 52'32	0°40'32	morning rise	801 Sep 10 j 15:38	6° Mp 31′43	
max. Earth dist.	796 Jun 14 j 00:30	25° ∏ 54'28	10.00989 AU	retrograde	801 Dec 20 j 01:10	14° m 01'35	
morning rise	796 Jul 01 j 23:17	28° Ⅱ 14'01		opposition	802 Feb 25 j 09:46	10° m 39'48	2°23'09
-	796 Jul 16 j 02:40	0ංම		min. Earth dist.	802 Feb 25 j 06:25	10° Mp 40'27	8.50779 AU
retrograde	796 Oct 14 j 12:32	6° © 27'53		direct	802 May 06 j 04:12	7° m 12'33	
opposition	796 Dec 20 j 02:51	2°959'19	-0°30'07	evening set	802 Aug 20 j 03:31	14° m 59'28	
min. Earth dist.	796 Dec 19 j 21:44	3°900'22		evening sec	0021148 20) 05.51	1	
mm. Larm dist.	797 Feb 01 j 15:39	30°RII	0.02701 AU	conjunction	802 Sep 06 j 12:18	17° m 06'59	2°03'35
4:		29° Ⅱ 29'34		·			
direct	797 Feb 25 j 04:47			minimum elong	802 Sep 06 j 12:15	17° Mp 06'58	2°03'35
	797 Mar 20 j 16:47	0° ©		max. Earth dist.	802 Sep 06 j 15:19	-•	10.56809 AU
evening set	797 Jun 10 j 17:40	7° © 45'01		morning rise	802 Sep 23 j 16:23	19° m 13'03	
				retrograde	803 Jan 01 j 13:43	26° Mp 34′39	
conjunction	797 Jun 28 j 22:31	10° © 05'49	-0°07'19	opposition	803 Mar 10 j 08:37	23° Mp 14'12	2°39'23
minimum elong	797 Jun 28 j 22:32	10° © 05'49	0°07'20	min. Earth dist.	803 Mar 10 j 05:38	23° m 14'47	8.62949 AU
behind sun begin	797 Jun 28 j 15:50	10° © 03'40		direct	803 May 19 j 15:28	19° m 48'14	
behind sun end	797 Jun 29 j 05:15	10° © 07'59		evening set	803 Sep 02 j 04:00	27° m 26'55	
max. Earth dist.	797 Jun 29 j 05:22	10° © 08'01	10.05517 AU	C	1 3		
morning rise	797 Jul 17 j 01:47	12°9526'05		conjunction	803 Sep 19 j 08:04	29° m 31'33	2°13'52
asc. node	797 Sep 19 j 02:50	19° 5 07'09		minimum elong	803 Sep 19 j 08:02	29° m 31'33	2°13'53
retrograde	797 Oct 28 j 16:12	20°932'28		max. Earth dist.	803 Sep 19 j 10:28		10.68753 AU
•	-	17° 9 04'59	0°11'40	max. Earth dist.		0° ⊡	10.06733 AU
opposition	798 Jan 03 j 04:39				803 Sep 23 j 05:26		
min. Earth dist.	798 Jan 02 j 22:50	17°506'11	8.08761 AU	morning rise	803 Oct 06 j 07:25	1° £ 34'47	
direct	798 Mar 11 j 18:11	13°935'05		retrograde	804 Jan 13 j 21:58	8° Ω 49'00	
evening set	798 Jun 25 j 17:24	21°9547'51		opposition	804 Mar 22 j 01:55	5° £ 29'46	2°47'50
				min. Earth dist.	804 Mar 21 j 23:43	5° ≏ 30'11	8.74589 AU
conjunction	798 Jul 13 j 20:27	24° © 06'57	0°26'02	direct	804 May 31 j 17:23	2° ჲ 05'09	
minimum elong	798 Jul 13 j 20:26	24° © 06'57	0°26'01	evening set	804 Sep 13 j 18:27	9° £ 35'43	
max. Earth dist.	798 Jul 14 j 03:48	24° © 09'19	10.12651 AU				
morning rise	798 Jul 31 j 20:34	26° © 25'08		conjunction	804 Sep 30 j 18:19	11° ≏ 37'48	2°17'54
	798 Aug 31 j 02:30	$0^{\circ}\Omega$		minimum elong	804 Sep 30 j 18:19	11° ≏ 37'48	2°17'54
retrograde	798 Nov 11 j 12:33	4° Ω 22'48		max. Earth dist.	804 Sep 30 j 19:58	11° ≏ 38'18	10.79911 AU
opposition	799 Jan 17 j 02:15	0° Ω 56'37	0°52'01	morning rise	804 Oct 17 j 13:40	13° ≏ 38'36	
min. Earth dist.	799 Jan 16 j 20:26	0° Ω 57'48	8.17033 AU	retrograde	805 Jan 24 j 23:32	20° ≏ 46'32	
min. Zarin digi.	799 Jan 28 j 19:14	30°Rூ	0.17033110	opposition	805 Apr 03 j 14:36	17° £ 28'18	2°48'44
direct	799 Mar 26 j 04:50	27°526'55		min. Earth dist.	805 Apr 03 j 14:01	17° ⊆ 28'25	8.85190 AU
unect	799 May 20 j 08:49	27 3 20 33				17 = 28 23 14° ⊆ 05'04	6.65190 AU
				direct	805 Jun 13 j 12:52		
evening set	799 Jul 10 j 10:09	5° Ω 35'04		evening set	805 Sep 25 j 23:41	21° ≏ 27'54	
		-c •					
conjunction	799 Jul 28 j 09:48	7° Ω 51'44		conjunction	805 Oct 12 j 19:56	23° £ 27'50	
minimum elong	799 Jul 28 j 09:46	7° Ω 51'43		minimum elong	805 Oct 12 j 19:57	23° ≏ 27'50	
max. Earth dist.	799 Jul 28 j 16:54		10.21931 AU	max. Earth dist.	805 Oct 12 j 19:50	23° ≏ 27'48	10.89816 AU
morning rise	799 Aug 15 j 05:33	10° Ω 07'11		morning rise	805 Oct 29 j 12:20	25° ≏ 26'40	
	799 Sep 27 j 20:01	15° Ω			805 Dec 12 j 09:38	0° M.	
retrograde	799 Nov 25 j 01:05	17° Ω 55'32		retrograde	806 Feb 05 j 20:56	2°M29'36	
Č	800 Jan 24 j 17:30	15°RΩ		Č	806 Apr 05 j 04:57	30° ₽ Ω	
opposition	800 Jan 30 j 18:36	14° Ω 30'47	1°28'32	opposition	806 Apr 15 j 23:11	29° ≙ 12'08	2°42'32
min. Earth dist.	800 Jan 30 j 13:28	14° Ω 31'49		min. Earth dist.	806 Apr 16 j 00:10	29° £ 11'57	
direct	800 Apr 08 j 10:10	11° Ω 01'36	0.27170710	direct	806 Jun 26 j 02:52	25° ⊆ 50'10	0.74527 710
direct	800 Apr 08 j 10.10 800 Jun 18 j 05:41	11 δ t 01 36		uncet	806 Sep 09 j 11:23	0° M	
				. ,			
evening set	800 Jul 23 j 18:19	19° Ω 03'38		evening set	806 Oct 07 j 21:03	3°M05'59	
	000 4 40112 25	210 21	100444		0060 : 241111	F0.W 0 ****	2000110
conjunction	800 Aug 10 j 13:25	21°Ω17'24		conjunction	806 Oct 24 j 14:32	5°M04'13	2°08'18
minimum elong	800 Aug 10 j 13:22	21° Ω 17'23		minimum elong	806 Oct 24 j 14:34	5°M04'14	
max. Earth dist.	800 Aug 10 j 19:23		10.32792 AU	max. Earth dist.	806 Oct 24 j 12:32		10.98087 AU
morning rise	800 Aug 28 j 04:03	23° Ω 29'46		morning rise	806 Nov 10 j 04:59	7°M01'34	
	800 Nov 01 j 12:12	0° m ∕		retrograde	807 Feb 17 j 14:32	14° M 00'49	

opposition	807 Apr 28 j 04:07	10°ML43'50	2°29'52	min. Earth dist.	813 Jul 07 j 23:34	180=37'16	8.96504 AU
min. Earth dist.	807 Apr 28 j 04:07	10°ML43'29	9.01642 AU	direct	813 Sep 15 j 18:29	18 3 37 10	8.90304 AU
direct	807 Jul 08 j 10:39	7°M23'03	9.01042 AU	evening set	813 Dec 24 j 13:21	13 32 002 22° 3 22'07	
evening set	807 Oct 19 j 11:51	14°M32'45		evening set	013 Dec 24 j 13.21	22 02207	
evening set	807 Oct 23 j 09:53	15°M		conjunction	814 Jan 10 j 05:47	24° る 20'55	0°26'34
	807 Oct 23 J 09.33	13 116		minimum elong	814 Jan 10 j 05:46	24° る 20'55	
conjunction	807 Nov 05 j 03:33	16° M 29'47	1055'/11	max. Earth dist.	814 Jan 09 j 22:36		10.92455 AU
minimum elong	807 Nov 05 j 03:35	16°M29'48	1°55'40	morning rise	814 Jan 27 j 00:35	24°31847 26°320'28	10.92433 AU
max. Earth dist.	807 Nov 05 j 00:38		11.04388 AU	morning risc	814 Mar 01 j 21:12	20 ⊙ 20 28	
	-	18°ML26'08	11.04388 AU	retrograde	814 May 10 j 06:21	0 ∞ 3°≈37'09	
morning rise	807 Nov 21 j 16:46	25°M23'10		opposition	814 Jul 20 j 03:21	0°≈15'57	0940126
retrograde opposition	808 Feb 29 j 07:49	22°M06'22	2°11'31	• •	,	0 ≈1337 0°≈14'52	8.87911 AU
	808 May 09 j 06:36			min. Earth dist.	814 Jul 20 j 09:10		6.6/911 AU
min. Earth dist.	808 May 09 j 08:55	22°M05'57	9.06821 AU	T'	814 Jul 23 j 16:35	30°Rる	
direct	808 Jul 19 j 14:38	18°M46'35		direct	814 Sep 27 j 15:17	26° ප 57'13	
evening set	808 Oct 29 j 21:51	25°M51'21		. ,	814 Nov 28 j 10:09	0°≈	
	000 N 15:12 26	270 M 47120	1020120	evening set	815 Jan 05 j 07:13	4° ≈ 03'23	
conjunction	808 Nov 15 j 12:26	27°M47'38	1°38'38				
minimum elong	808 Nov 15 j 12:29	27°M47'38	1°38'38	conjunction	815 Jan 22 j 01:04	6°≈03'44	
max. Earth dist.	808 Nov 15 j 09:00		11.08434 AU	minimum elong	815 Jan 22 j 01:02		0°53'30
morning rise	808 Dec 02 j 01:06	29°M43'25		max. Earth dist.	815 Jan 21 j 17:38		10.83029 AU
	808 Dec 04 j 10:59	0° ∡ ¹		morning rise	815 Feb 07 j 22:12	8° ≈ 05'05	
retrograde	809 Mar 12 j 01:41	6° ₮ 39'46			815 Apr 28 j 04:46	15° ≈	
opposition	809 May 21 j 07:39	3° ∡ ¹22'55	1°48'16	retrograde	815 May 22 j 22:06	15° ≈ 30′00	
min. Earth dist.	809 May 21 j 11:17	3° ∡ ¹22'15	9.09629 AU		815 Jun 16 j 22:25	15°R ≈	
direct	809 Jul 31 j 12:51	0° ∡ 03'57		opposition	815 Aug 01 j 16:54	12° ≈ 07'19	-1°21'43
evening set	809 Nov 10 j 04:52	7° ∡ ¹05'06		min. Earth dist.	815 Aug 01 j 22:43	12° ≈ 06′13	8.77756 AU
				direct	815 Oct 09 j 16:56	8° ≈ 47'53	
conjunction	809 Nov 26 j 18:50	9° ₰ 01'05	1°17'53		816 Jan 08 j 21:12	15° ≈	
minimum elong	809 Nov 26 j 18:52	9° ₰ 01'06	1°17'54	evening set	816 Jan 17 j 08:00	15° ≈ 59'38	
max. Earth dist.	809 Nov 26 j 13:35	8° ҂ 759'32	11.10031 AU				
morning rise	809 Dec 13 j 07:49	10° ≯ 56'50		conjunction	816 Feb 03 j 03:49	18° ≈ 01'52	-1°18'37
retrograde	810 Mar 23 j 18:07	17° ∡ 54′06		minimum elong	816 Feb 03 j 03:46	18° ≈ 01'51	1°18'37
opposition	810 Jun 02 j 08:18	14° ∡ ³36′56	1°20'58	max. Earth dist.	816 Feb 02 j 21:35	17° ≈ 59'58	10.72215 AU
min. Earth dist.	810 Jun 02 j 13:34	14° ∡ ³35'58	9.09935 AU	morning rise	816 Feb 20 j 03:25	20° ≈ 05'16	
direct	810 Aug 12 j 08:13	11° ∡ 18'31		retrograde	816 Jun 03 j 23:10	27° ≈ 39'28	
evening set	810 Nov 21 j 10:32	18° ∡ 17'38		opposition	816 Aug 13 j 11:48	24° ≈ 15'14	-1°51'12
				min. Earth dist.	816 Aug 13 j 16:27	24° ≈ 14'21	8.66437 AU
conjunction	810 Dec 08 j 00:26	20° ∡ 13'45	0°54'10	direct	816 Oct 21 j 00:29	20°≈54'57	
minimum elong	810 Dec 08 j 00:28	20° ∡ 13'45	0°54'11	evening set	817 Jan 28 j 17:04	28° ≈ 13'32	
max. Earth dist.	810 Dec 07 j 17:30	20° ∡ 11'42	11.09117 AU		817 Feb 12 j 05:11	0° ∀	
morning rise	810 Dec 24 j 14:25	22° ₹ 09'54			·		
retrograde	811 Apr 04 j 14:25	29° ₹ 09'46		conjunction	817 Feb 14 j 15:18	0° ₩ 17'56	-1°40'46
opposition	811 Jun 14 j 09:32	25° ₹ 51'58	0°50'32	minimum elong	817 Feb 14 j 15:15	0° ₩ 17'55	1°40'45
min. Earth dist.	811 Jun 14 j 15:39	25° ₹ 50'51	9.07751 AU	max. Earth dist.	817 Feb 14 j 10:41		10.60448 AU
direct	811 Aug 24 j 04:13	22° ҂ ³33'52		morning rise	817 Mar 03 j 17:39	2° ∺ 23'39	
evening set	811 Dec 02 j 16:42	29° ∡ ³32'27		retrograde	817 Jun 17 j 08:51	10° ₩ 07'45	
C	811 Dec 06 j 15:48	0°⋜		opposition	817 Aug 26 j 12:29	6°) 42′00	-2°16'21
	J			min. Earth dist.	817 Aug 26 j 15:36		8.54420 AU
conjunction	811 Dec 19 j 07:09	1° る 29'06	0°28'16	direct	817 Nov 02 j 11:31	3° ¥ 20'42	
minimum elong	811 Dec 19 j 07:09	1° る 29'06	0°28'16	evening set	818 Feb 10 j 11:54	10°) 47'16	
max. Earth dist.	811 Dec 19 j 00:11	1°る27'03	11.05762 AU	· ·	J		
morning rise	812 Jan 04 j 22:20	3°₹26'02		conjunction	818 Feb 27 j 12:58	12°) 54′04	-1°58'38
retrograde	812 Apr 15 j 14:03	10° る 30'03		minimum elong	818 Feb 27 j 12:56	12° ¥ 54′03	
opposition	812 Jun 25 j 12:22	7° る 11'20	0°17'55	max. Earth dist.	818 Feb 27 j 09:19		10.48238 AU
min. Earth dist.	812 Jun 25 j 18:08	7° る 10'16	9.03205 AU	morning rise	818 Mar 16 j 18:33	15°) €02'21	
direct	812 Sep 03 j 22:33	3° ප 53'18		retrograde	818 Jul 01 j 01:46	22° H 56'25	
evening set	812 Dec 13 j 01:05	10°る52'52		opposition	818 Sep 08 j 19:11	19° ∺ 29'15	-2°35'33
	3-1 = 30 10 J 01.03			min. Earth dist.	818 Sep 08 j 21:09	19° ∺ 28'51	8.42240 AU
conjunction	812 Dec 29 j 16:26	12° る 50'26	0°01'04	direct	818 Nov 15 j 06:00	16° X 06'48	5. 12270 AU
minimum elong	812 Dec 29 j 16:26	12°る50'26	0°01'04	evening set	819 Feb 23 j 17:07	23°) 42'08	
behind sun begin	812 Dec 29 j 10:20 812 Dec 29 j 09:28	12 03020 12° 3 48'23	J 0107	Oroming Sec	517150 25 j 17.07	23 /(-12 00	
behind sun end	812 Dec 29 j 23:25	12 3 48 23		conjunction	819 Mar 12 j 21:32	25° ∺ 51'35	-2°11'00
max. Earth dist.	812 Dec 29 j 09:45		11.00130 AU	minimum elong	819 Mar 12 j 21:30	25° X 51'34	
desc. node	812 Dec 29 j 09.43 813 Jan 12 j 19:31	12 34828 14° る 30'32	11.00150 AU	max. Earth dist.	819 Mar 12 j 18:32		10.36162 AU
morning rise	813 Jan 15 j 09:11	14 03032 14° ठ 48'29		morning rise	819 Mar 30 j 06:48	28°\(\frac{1}{28}\)02'33	10.30102 AU
•	813 Jan 13 J 09:11 813 Apr 27 j 19:48	14°848'29 21° る 58'09		morning rise		28°π02'33 0°Υ	
retrograde opposition	813 Apr 27 j 19:48 813 Jul 07 j 18:03	18° る 38'17	-0°15'47	retrograde	819 Apr 15 j 12:54 819 Jul 15 j 02:15	0° Υ 06'08	
оррознин	013 Jul 0/ J 18.03	10 0381/	-0 134/	renograde	017 Jul 13 J U2.13	0 10008	

opposition	819 Sep 22 j 08:16	2° Y 37'43	2047117	minimum elong	825 Jun 07 i 07:15	19° Ⅱ 41'46	0°54'52
min. Earth dist.	819 Sep 22 j 09:29	2° Y 37'29	8.30495 AU	max. Earth dist.	825 Jun 07 j 14:53	19 ∏ 41 40 19° ∏ 44'15	9.99783 AU
iiiii. Eartii tist.	819 Oct 30 j 01:28	2 13/29 30°R ∺	6.30493 AU		825 Jun 25 j 11:52	22° I 03'33	9.99763 AU
Ji		30 KX 29° ¥ 14′03		morning rise	-	22 ம 03 33	
direct	819 Nov 28 j 08:25	29° π 14'03 0° Υ			825 Sep 19 j 08:27		
	819 Dec 27 j 06:41			retrograde	825 Oct 08 j 13:38	0°9520'37	
evening set	820 Mar 08 j 08:46	6° Ƴ 58'28			825 Oct 27 j 17:24	30°RⅡ	
		••		opposition	825 Dec 14 j 03:58	26° Ⅱ 51'51	
conjunction	820 Mar 25 j 17:12	9° Y 10′39		min. Earth dist.	825 Dec 13 j 22:04	26° Ⅱ 53'04	8.01248 AU
minimum elong	820 Mar 25 j 17:12	9° Ƴ 10'39	2°16'45	direct	826 Feb 18 j 23:35	23° Ⅱ 22'36	
max. Earth dist.	820 Mar 25 j 15:39		10.24846 AU		826 May 22 j 03:33	0 \circ \odot	
morning rise	820 Apr 12 j 06:30	11° Y 24'23		evening set	826 Jun 04 j 08:26	1° © 38'53	
retrograde	820 Jul 28 j 09:51	19° Ƴ 36′20					
opposition	820 Oct 05 j 03:15	16° Ƴ 06'56	-2°50'13	conjunction	826 Jun 22 j 13:26	4°500'10	-0°22'18
min. Earth dist.	820 Oct 05 j 03:26	16° Y ′06′54	8.19820 AU	minimum elong	826 Jun 22 j 13:27	4°900'10	0°22'18
direct	820 Dec 10 j 18:37	12° Y '42'01		max. Earth dist.	826 Jun 22 j 21:18	4° © 02'43	10.03424 AU
evening set	821 Mar 22 j 11:06	20° Ƴ 35'19		morning rise	826 Jul 10 j 17:29	6° ॐ 21′08	
	-			retrograde	826 Oct 22 j 20:27	14° © 31'20	
conjunction	821 Apr 09 j 00:07	22° Y ′50′16	-2°15'02	opposition	826 Dec 28 j 08:06	11° © 03'44	-0°06'58
minimum elong	821 Apr 09 j 00:08	22° Y 50'16	2°15'02	min. Earth dist.	826 Dec 28 j 02:19	11° © 04'55	8.06289 AU
max. Earth dist.	821 Apr 09 j 00:35		10.14932 AU	asc. node	827 Mar 01 j 10:03	7°935'18	
morning rise	821 Apr 26 j 17:36	25° Y ′06'39	10.11.902110	direct	827 Mar 05 j 14:51	7°934'18	
morning rise	821 Jun 08 j 10:21	0°8		evening set	827 Jun 19 j 11:00	15°948'40	
ratra ara da		3° B 25'03		evening set	62/Juli 19 J 11.00	13 5946 40	
retrograde	821 Aug 11 j 22:05	30°RΥ		:	027 I1 07:14.52	1000000125	0011120
.	821 Oct 18 j 02:40	30° ₹ 1 29° Y 55'00	20.4212.0	conjunction	827 Jul 07 j 14:52	18°908'35	0°11'20
opposition	821 Oct 19 j 03:13			minimum elong	827 Jul 07 j 14:51	18°908'34	0°11'20
min. Earth dist.	821 Oct 19 j 02:01	29° Y 55'14	8.10840 AU	behind sun begin	827 Jul 07 j 09:34	18°506'53	
direct	821 Dec 24 j 13:29	26° Y ′28'53		behind sun end	827 Jul 07 j 20:09	18° © 10'16	
	822 Feb 26 j 06:51	0° 8		max. Earth dist.	827 Jul 07 j 22:15		10.09822 AU
evening set	822 Apr 05 j 23:07	4° 8 30'19		morning rise	827 Jul 25 j 16:38	20° © 27'46	
				retrograde	827 Nov 05 j 19:38	28° © 29'32	
conjunction	822 Apr 23 j 16:56	6° 8 47'49		opposition	828 Jan 11 j 08:08	25° © 03'15	0°34'22
minimum elong	822 Apr 23 j 16:59	6° 8 47'50	2°05'27	min. Earth dist.	828 Jan 11 j 02:28	25° © 04'24	8.13884 AU
max. Earth dist.	822 Apr 23 j 19:51	6° 8 48'46	10.07023 AU	direct	828 Mar 19 j 04:11	21° © 33'55	
morning rise	822 May 11 j 14:27	9° 8 06'34		evening set	828 Jul 03 j 07:39	29° 5 44'18	
	822 Jul 03 j 16:46	15° ႘			828 Jul 05 j 09:38	$0^{\circ}\Omega$	
retrograde	822 Aug 26 j 13:51	17° 8 28'57					
	822 Oct 20 j 16:38	15° ₹ 8		conjunction	828 Jul 21 j 08:49	2° Ω 02'03	0°43'43
opposition	822 Nov 02 j 07:14	13° 8 58'37	-2°26'52	minimum elong	828 Jul 21 j 08:47	2° Ω 02'02	0°43'43
min. Earth dist.	822 Nov 02 j 04:12	13° 8 59'14	8.04121 AU	max. Earth dist.	828 Jul 21 j 15:25	2°Ω04'10	10.18477 AU
direct	823 Jan 07 j 15:14	10° 8 31'27		morning rise	828 Aug 08 j 06:48	4° Ω 18'44	
	823 Mar 21 j 08:53	15° 8		retrograde	828 Nov 18 j 11:21	12° Ω 11'14	
evening set	823 Apr 20 j 19:12	18° 8 39'37		opposition	829 Jan 24 j 03:08	8° Ω 46'21	1°12'52
evening sec	023 11p1 20 j 15.12	10 03737		min. Earth dist.	829 Jan 23 j 21:47	8° Ω 47'25	8.23431 AU
conjunction	823 May 08 j 17:30	20° 8 59'16	10/18/12	direct	829 Apr 02 j 12:40	5° Ω 17'25	0.25451710
minimum elong	823 May 08 j 17:33	20° 8 59'17		evening set	829 Jul 17 j 20:16	13° Ω 22'16	
max. Earth dist.			10.01641 AU	evening set	829 Jul 30 j 19:44	15° Ω	
	823 May 08 j 22:39		10.01041 AU		829 Jul 30 J 19.44	13 66	
morning rise	823 May 26 j 18:30	23° ႘ 19'50 0° Ⅱ		· · · · · · · · · ·	920 A 04: 17-26	150 027110	1012102
	823 Jul 28 j 03:58			conjunction	829 Aug 04 j 17:26	15° Ω 37'18	
retrograde	823 Sep 10 j 07:11	1° Ⅱ 43'22		minimum elong	829 Aug 04 j 17:23	15° Ω 37'17	
	823 Oct 24 j 23:39	30° ₹ 8		max. Earth dist.	829 Aug 04 j 23:03		10.28723 AU
opposition	823 Nov 16 j 13:51	28° 8 13'10		morning rise	829 Aug 22 j 10:30	17° Ω 51'01	
min. Earth dist.	823 Nov 16 j 09:11	28° 8 14'08	8.00122 AU	retrograde	829 Dec 01 j 20:21	25° Ω 34'09	
direct	824 Jan 21 j 22:12	24° 8 45'06		opposition	830 Feb 06 j 16:30	22° Ω 10'43	1°46'23
	824 Apr 10 j 15:55	$\Pi^{\circ}0$		min. Earth dist.	830 Feb 06 j 11:46	22° Ω 11'40	8.34261 AU
evening set							
	824 May 04 j 21:21	2° ∏ 58'11		direct	830 Apr 16 j 15:25	18° Ω 42′29	
		2° ∏ 58'11		direct evening set			
conjunction	824 May 04 j 21:21 824 May 22 j 23:20		-1°24'10		830 Apr 16 j 15:25	18° Ω 42′29	
conjunction minimum elong	824 May 04 j 21:21	2° ∏ 58'11			830 Apr 16 j 15:25	18° Ω 42′29	1°37'47
·	824 May 04 j 21:21 824 May 22 j 23:20	2° П 58'11 5° П 19'18		evening set	830 Apr 16 j 15:25 830 Jul 31 j 23:18	18° Ω 42'29 26° Ω 40'43	
minimum elong	824 May 04 j 21:21 824 May 22 j 23:20 824 May 22 j 23:24	2°П58'11 5°П19'18 5°П19'19	1°24'10	evening set	830 Apr 16 j 15:25 830 Jul 31 j 23:18 830 Aug 18 j 15:41	18° \(\Omega 42'29\) 26° \(\Omega 40'43\) 28° \(\Omega 52'45\) 28° \(\Omega 52'44\)	
minimum elong max. Earth dist.	824 May 04 j 21:21 824 May 22 j 23:20 824 May 22 j 23:24 824 May 23 j 06:07	2° Д 58'11 5° Д 19'18 5° Д 19'19 5° Д 21'31	1°24'10	evening set conjunction minimum elong	830 Apr 16 j 15:25 830 Jul 31 j 23:18 830 Aug 18 j 15:41 830 Aug 18 j 15:38	18° \(\Omega 42'29\) 26° \(\Omega 40'43\) 28° \(\Omega 52'45\) 28° \(\Omega 52'44\)	1°37'47
minimum elong max. Earth dist. morning rise	824 May 04 j 21:21 824 May 22 j 23:20 824 May 22 j 23:24 824 May 23 j 06:07 824 Jun 10 j 02:53 824 Sep 24 j 00:05	2°П58'11 5°П19'18 5°П19'19 5°П21'31 7°П40'57 16°П02'38	1°24'10 9.99170 AU	conjunction minimum elong max. Earth dist.	830 Apr 16 j 15:25 830 Jul 31 j 23:18 830 Aug 18 j 15:41 830 Aug 18 j 15:38 830 Aug 18 j 20:25 830 Aug 27 j 14:36	18°N42'29 26°N40'43 28°N52'45 28°N52'44 28°N54'14	1°37'47
minimum elong max. Earth dist. morning rise retrograde	824 May 04 j 21:21 824 May 22 j 23:20 824 May 22 j 23:24 824 May 23 j 06:07 824 Jun 10 j 02:53 824 Sep 24 j 00:05 824 Nov 29 j 21:18	2°П58'11 5°П19'18 5°П19'19 5°П21'31 7°П40'57 16°П02'38 12°П32'58	1°24'10 9.99170 AU -1°27'30	conjunction minimum elong max. Earth dist. morning rise	830 Apr 16 j 15:25 830 Jul 31 j 23:18 830 Aug 18 j 15:41 830 Aug 18 j 15:38 830 Aug 18 j 20:25 830 Aug 27 j 14:36 830 Sep 05 j 03:18	18°N42'29 26°N40'43 28°N52'45 28°N52'44 28°N54'14 0° M 1° M03'20	1°37'47
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	824 May 04 j 21:21 824 May 22 j 23:20 824 May 22 j 23:24 824 May 23 j 06:07 824 Jun 10 j 02:53 824 Sep 24 j 00:05 824 Nov 29 j 21:18 824 Nov 29 j 15:42	2°П58'11 5°П19'18 5°П19'19 5°П21'31 7°П40'57 16°П02'38 12°П32'58 12°П34'07	1°24'10 9.99170 AU	conjunction minimum elong max. Earth dist. morning rise retrograde	830 Apr 16 j 15:25 830 Jul 31 j 23:18 830 Aug 18 j 15:41 830 Aug 18 j 15:38 830 Aug 18 j 20:25 830 Aug 27 j 14:36 830 Sep 05 j 03:18 830 Dec 14 j 20:53	18° N42'29 26° N40'43 28° N52'45 28° N52'44 28° N54'14 0° M 1° M 03'20 8° M 37'26	1°37'47 10.39948 AU
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	824 May 04 j 21:21 824 May 22 j 23:20 824 May 22 j 23:24 824 May 23 j 06:07 824 Jun 10 j 02:53 824 Sep 24 j 00:05 824 Nov 29 j 21:18 824 Nov 29 j 15:42 825 Feb 04 j 08:58	2° II 58'11 5° II 19'18 5° II 19'19 5° II 21'31 7° II 40'57 16° II 02'38 12° II 32'58 12° II 34'07 9° II 04'11	1°24'10 9.99170 AU -1°27'30	conjunction minimum elong max. Earth dist. morning rise retrograde opposition	830 Apr 16 j 15:25 830 Jul 31 j 23:18 830 Aug 18 j 15:41 830 Aug 18 j 15:38 830 Aug 18 j 20:25 830 Aug 27 j 14:36 830 Sep 05 j 03:18 830 Dec 14 j 20:53 831 Feb 20 j 00:14	18° N42'29 26° N40'43 28° N52'45 28° N52'44 28° N54'14 0° m 1° m 03'20 8° m 37'26 5° m 15'26	1°37'47 10.39948 AU 2°13'26
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	824 May 04 j 21:21 824 May 22 j 23:20 824 May 22 j 23:24 824 May 23 j 06:07 824 Jun 10 j 02:53 824 Sep 24 j 00:05 824 Nov 29 j 21:18 824 Nov 29 j 15:42	2°П58'11 5°П19'18 5°П19'19 5°П21'31 7°П40'57 16°П02'38 12°П32'58 12°П34'07	1°24'10 9.99170 AU -1°27'30	evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	830 Apr 16 j 15:25 830 Jul 31 j 23:18 830 Aug 18 j 15:41 830 Aug 18 j 15:38 830 Aug 18 j 20:25 830 Aug 27 j 14:36 830 Sep 05 j 03:18 830 Dec 14 j 20:53 831 Feb 20 j 00:14 831 Feb 19 j 20:34	18°N42'29 26°N40'43 28°N52'45 28°N52'44 28°N54'14 0° m 1° m03'20 8° m37'26 5° m15'26 5° m16'10	1°37'47 10.39948 AU
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	824 May 04 j 21:21 824 May 22 j 23:20 824 May 22 j 23:24 824 May 23 j 06:07 824 Jun 10 j 02:53 824 Sep 24 j 00:05 824 Nov 29 j 21:18 824 Nov 29 j 15:42 825 Feb 04 j 08:58	2° II 58'11 5° II 19'18 5° II 19'19 5° II 21'31 7° II 40'57 16° II 02'38 12° II 32'58 12° II 34'07 9° II 04'11	1°24'10 9.99170 AU -1°27'30 7.99141 AU	conjunction minimum elong max. Earth dist. morning rise retrograde opposition	830 Apr 16 j 15:25 830 Jul 31 j 23:18 830 Aug 18 j 15:41 830 Aug 18 j 15:38 830 Aug 18 j 20:25 830 Aug 27 j 14:36 830 Sep 05 j 03:18 830 Dec 14 j 20:53 831 Feb 20 j 00:14	18° N42'29 26° N40'43 28° N52'45 28° N52'44 28° N54'14 0° m 1° m 03'20 8° m 37'26 5° m 15'26	1°37'47 10.39948 AU 2°13'26

conjunction minimum elong max. Earth dist.	831 Sep 01 j 03:07 831 Sep 01 j 03:05 831 Sep 01 j 06:43	11° Mp 47'52 11° Mp 47'52	1°56'59 1°56'59 10.51639 AU	conjunction minimum elong max. Earth dist.	837 Nov 11 j 01:14 837 Nov 11 j 01:16 837 Nov 10 j 20:53	23°M13'17 23°M13'18	1°46'28 1°46'28 11.04785 AU
morning rise retrograde	831 Sep 18 j 09:23 831 Dec 27 j 13:58	13° m 55'21 21° m 20'59	10.31039 AU	morning rise	837 Nov 10 j 20:33 837 Nov 27 j 14:17 838 Jan 14 j 21:13	25°M09'30 0° ₹	11.04/83 AU
opposition min. Earth dist.	832 Mar 04 j 02:14 832 Mar 04 j 00:13	18° Mp 00'17 18° Mp 00'41	2°33'05 8.57591 AU	retrograde	838 Mar 07 j 09:22 838 Apr 30 j 05:15	2° ₹ 06'39 30°RM	1050150
direct evening set	832 May 13 j 02:08 832 Aug 26 j 21:56	14° My 34'02 22° My 16'54		opposition min. Earth dist. direct	838 May 16 j 13:14 838 May 16 j 17:04 838 Jul 26 j 20:05	28°M49'18 28°M48'35 25°M29'22	1°58'52 9.06513 AU
conjunction minimum elong	832 Sep 13 j 04:05 832 Sep 13 j 04:03	24° M 22'54 24° M 22'53	2°10'03 2°10'03	evening set	838 Oct 13 j 13:29 838 Nov 05 j 18:34	0° ⋌ 2° ⋌ 32'40	
max. Earth dist. morning rise	832 Sep 13 j 05:37 832 Sep 30 j 05:27 832 Oct 31 j 22:48	24° Mp 23'22 26° Mp 27'27 0° <u>a</u>	10.63281 AU	conjunction minimum elong	838 Nov 22 j 08:51 838 Nov 22 j 08:53	4° √ 28'57 4° √ 28'57	1°27'13 1°27'13
retrograde opposition	833 Jan 08 j 00:23 833 Mar 16 j 22:37	3° £ 45'21 0° £ 25'49	2°45'00	max. Earth dist.	838 Nov 22 j 08:53 838 Nov 22 j 04:11 838 Dec 08 j 21:52		11.07487 AU
min. Earth dist.	833 Mar 16 j 21:58 833 Mar 22 j 12:53	0° £ 25′56 30°RM⊅	8.69052 AU	retrograde opposition	839 Mar 19 j 02:02 839 May 28 j 13:55	13° х 22′11 10° х 04′34	1°33'10
direct evening set	833 May 26 j 08:32 833 Jul 27 j 15:10 833 Sep 08 j 17:29	27°№00'41 0° <u>Ω</u> 4° <u>Ω</u> 35'28		min. Earth dist. direct evening set	839 May 28 j 17:42 839 Aug 07 j 17:30 839 Nov 17 j 00:46	10° 🗷 03'53 6° 🗷 45'20 13° 🗷 45'48	9.08053 AU
conjunction	833 Sep 25 j 19:03	6° £ 38'47	2°16'49	conjunction	839 Dec 03 j 14:54	15° ₹ 142'00	1°04'39
minimum elong max. Earth dist.	833 Sep 25 j 19:02 833 Sep 25 j 18:48	6° £ 38'47 6° £ 38'43	2°16'50 10.74370 AU	minimum elong max. Earth dist.	839 Dec 03 j 14:56 839 Dec 03 j 10:18	15° х 42′01 15° х 40′39	1°04'40 11.07916 AU
morning rise retrograde	833 Oct 12 j 16:15 834 Jan 20 j 03:08	8° £ 40'47 15° £ 51'59	2010112	morning rise retrograde	839 Dec 20 j 04:23 840 Mar 29 j 22:30	17° х 38'06 24° х 37'07	1000155
opposition min. Earth dist. direct	834 Mar 29 j 13:54 834 Mar 29 j 13:53 834 Jun 08 j 09:40	12° £ 33'19 12° £ 33'20 9° £ 09'22	2°49'12 8.79705 AU	opposition min. Earth dist. direct	840 Jun 08 j 14:55 840 Jun 08 j 18:56 840 Aug 18 j 13:08	21° 🖈 19'04 21° 🖈 18'19 18° 🖈 00'21	1°03'55 9.07298 AU
evening set	834 Sep 21 j 03:00	16° ≙ 36'15		evening set	840 Nov 27 j 06:36	24° ₹ 59'23	
conjunction minimum elong	834 Oct 08 j 00:51 834 Oct 08 j 00:51	18° △ 37'16 18° △ 37'16	2°17'26 2°17'26	conjunction minimum elong	840 Dec 13 j 20:52 840 Dec 13 j 20:53	26° ₹ 55'55 26° ₹ 55'55	0°39'34 0°39'35
max. Earth dist.	834 Oct 07 j 23:49 834 Oct 24 j 18:38	20° ≏ 37'06	10.84434 AU	max. Earth dist. morning rise	840 Dec 13 j 15:29 840 Dec 30 j 11:28	26°♂54'19 28°♂52'35 0°♂	11.06053 AU
retrograde opposition min. Earth dist.	835 Feb 01 j 03:27 835 Apr 11 j 00:32 835 Apr 11 j 00:59	27° Ω 42'47 24° Ω 24'46 24° Ω 24'42	2°46'03 8.89098 AU	retrograde opposition	841 Jan 09 j 09:16 841 Apr 10 j 20:03 841 Jun 20 j 17:12	5°る54'52 2°る36'09	0°32'05
direct evening set	835 Jun 21 j 03:24 835 Oct 03 j 04:04	21° Ω 01'59 28° Ω 21'30	0.05050110	min. Earth dist.	841 Jun 20 j 22:07 841 Jul 31 j 09:20	2°₹35′15 30°₹⊀	9.04280 AU
	835 Oct 17 j 01:42	0° M		direct	841 Aug 30 j 06:28 841 Sep 28 j 16:23	29° ₰ 17'45 0° ठ	
conjunction minimum elong	835 Oct 19 j 22:59 835 Oct 19 j 23:00	0°M20'39	2°12'13	evening set	841 Dec 08 j 13:54	6°♂16'56	0912140
max. Earth dist. morning rise retrograde	835 Oct 19 j 21:36 835 Nov 05 j 14:13 836 Feb 13 j 00:04	2°M.18'47 9°M.20'10	10.93057 AU	conjunction minimum elong behind sun begin	841 Dec 25 j 04:44 841 Dec 25 j 04:44 841 Dec 25 j 00:18	8°る14'07 8°る14'07 8°る12'50	0°12'49 0°12'50
opposition min. Earth dist.	836 Apr 22 j 07:17 836 Apr 22 j 09:00	6°M02'37 6°M02'18	2°36'07 8.96867 AU	behind sun end max. Earth dist.	841 Dec 25 j 09:10 841 Dec 24 j 22:27		11.01967 AU
direct evening set	836 Jul 02 j 12:28 836 Oct 13 j 22:02	2°M40'53 9°M53'53		morning rise retrograde desc. node	842 Jan 10 j 20:55 842 Apr 22 j 21:41 842 Jun 18 j 11:27	10°る11'44 17°る18'50 15°る02'11	
conjunction minimum elong	836 Oct 30 j 14:38 836 Oct 30 j 14:40	11°M51'38 11°M51'38	2°01'42 2°01'41	opposition min. Earth dist.	842 Jul 02 j 21:31 842 Jul 03 j 02:43	13°る59'15 13°る58'17	-0°01'17 8.99111 AU
max. Earth dist. morning rise	836 Oct 30 j 11:54 836 Nov 16 j 04:18 836 Nov 26 j 15:17	11°M50'49 13°M48'34 15°M	10.99918 AU	direct evening set	842 Sep 11 j 02:06 842 Dec 20 j 00:14	10°る40'54 17°る41'48	
retrograde opposition	837 Feb 23 j 16:40 837 May 04 j 11:17	20°M47'05 17°M29'45		conjunction minimum elong	843 Jan 05 j 16:08 843 Jan 05 j 16:08	19°る40'02 19°る40'02	
min. Earth dist.	837 May 04 j 14:28 837 Jun 11 j 13:02 837 Jul 14 j 18:25	17°M29'09 15°RM 14°M08'58	9.02739 AU	behind sun begin behind sun end max. Earth dist.	843 Jan 05 j 13:08 843 Jan 05 j 19:08 843 Jan 05 j 10:23	19°る39'09 19°る40'55 19°る38'20	10.95793 AU
evening set	837 Aug 16 j 12:01 837 Oct 25 j 10:14	15°M 21°M16'31		morning rise retrograde	843 Jan 22 j 10:07 843 May 05 j 06:04	21° ප 38'55 28° ප 52'18	11,57,5710
				opposition	843 Jul 15 j 04:58	25° る 31'39	-0°35'06

min. Earth dist.	843 Jul 15 j 09:31	25° ට 30'48	8.91962 AU	opposition	849 Sep 29 j 12:02	10° Ƴ 27'18	-2°49'45
direct	843 Sep 22 j 23:05	22° る 13'10		min. Earth dist.	849 Sep 29 j 12:09	10° Ƴ 27'17	8.27047 AU
evening set	843 Dec 31 j 15:21	29° る 17'18		direct	849 Dec 05 j 06:51	7° Ƴ 03'39	
	844 Jan 06 j 15:48	0° ≈		evening set	850 Mar 16 j 16:02	14° Ƴ 51'49	
conjunction	844 Jan 17 j 08:38	1° ≈ 16'53	-0°42'05	conjunction	850 Apr 03 j 02:50	17° Ƴ 05'11	
minimum elong	844 Jan 17 j 08:37	1° ≈ 16'53	0°42'06	minimum elong	850 Apr 03 j 02:51	17° Ƴ 05'11	
max. Earth dist.	844 Jan 17 j 03:51	1° ≈ 15'27	10.87741 AU	max. Earth dist.	850 Apr 03 j 02:36		10.21700 AU
morning rise	844 Feb 03 j 04:32	3° ≈ 17′20		morning rise	850 Apr 20 j 18:07	19° Ƴ 20′01	
retrograde	844 May 16 j 20:31	10° ≈ 38′19		retrograde	850 Aug 05 j 23:13	27° Y 34'32	
opposition	844 Jul 26 j 16:33	7° ≈ 16'27	-1°08'05	opposition	850 Oct 13 j 09:01	24° Ƴ 05'24	
min. Earth dist.	844 Jul 26 j 20:08	7° ≈ 15'47	8.83095 AU	min. Earth dist.	850 Oct 13 j 08:13	24° Y 05'33	8.17040 AU
direct	844 Oct 03 j 22:28	3° ≈ 57'38		direct	850 Dec 18 j 21:00	20° Ƴ 40′27	
evening set	845 Jan 11 j 12:58	11° ≈ 06′29		evening set	851 Mar 30 j 23:03	28° Y 37'10	
					851 Apr 10 j 17:48	9° 8	
conjunction	845 Jan 28 j 07:51	13° ≈ 07'44	-1°08'06				
minimum elong	845 Jan 28 j 07:48	13° ≈ 07'44	1°08'06	conjunction	851 Apr 17 j 14:26	0° 8 53'13	-2°10'28
max. Earth dist.	845 Jan 28 j 03:05	13° ≈ 06′18	10.78131 AU	minimum elong	851 Apr 17 j 14:28	0° ප 53'14	2°10'28
	845 Feb 12 j 20:15	15° ≈		max. Earth dist.	851 Apr 17 j 15:09	0° ප් 53'27	10.12564 AU
morning rise	845 Feb 14 j 06:09	15° ≈ 10'05		morning rise	851 May 05 j 09:58	3° 8 10'36	
retrograde	845 May 29 j 18:52	22° ≈ 39'42		retrograde	851 Aug 20 j 12:39	11° 8 30'19	
opposition	845 Aug 08 j 09:04	19° ≈ 16'32	-1°38'53	opposition	851 Oct 27 j 10:40	8° 8 00'37	-2°35'07
min. Earth dist.	845 Aug 08 j 12:26	19° ≈ 15'54	8.72868 AU	min. Earth dist.	851 Oct 27 j 09:06	8° 8 00'56	8.08932 AU
direct	845 Oct 16 j 01:51	15° ≈ 57'07		direct	852 Jan 01 j 18:57	4° 8 34'23	
evening set	846 Jan 23 j 18:19	23°≈12'03		evening set	852 Apr 13 j 14:40	12° 8 38'34	
	2,2,2,4,2					0	
conjunction	846 Feb 09 j 15:13	25°≈15'16	-1°31'37	conjunction	852 May 01 j 10:42	14° 8 56'59	-1°56'36
minimum elong	846 Feb 09 j 15:10	25°≈15'15		minimum elong	852 May 01 j 10:45	14° 8 57'00	
max. Earth dist.	846 Feb 09 j 10:30		10.67345 AU		852 May 01 j 19:58	15° 8	
morning rise	846 Feb 26 j 16:19	27°≈19'46		max. Earth dist.	852 May 01 j 12:47	_	10.05645 AU
morning rise	846 Mar 21 j 23:18	0° ∀		morning rise	852 May 19 j 10:12	17° 8 16'30	10.050 15 110
retrograde	846 Jun 11 j 23:44	4°) 58'46		retrograde	852 Sep 03 j 04:17	25° 8 38'45	
opposition	846 Aug 21 j 07:02	1° ¥ 34'16	-2°05'59	opposition	852 Nov 09 j 15:29	22° 8 08'49	-2°13'22
min. Earth dist.	846 Aug 21 j 10:15	1° X 34'10	8.61683 AU	min. Earth dist.	852 Nov 09 j 13:29	22° 8 09'18	8.03278 AU
mm. Earm dist.	846 Sep 11 j 13:01	1 / (33 39	8.01083 AU	direct	853 Jan 14 j 23:21	18° 8 41'24	8.03278 AU
direct	846 Oct 28 j 10:26	30 k∞ 28°≈14'00		evening set	853 Apr 28 j 13:26	26° 8 51'25	
direct	846 Dec 12 j 19:40	28 ≈ 14 00 0° ∺		evening set	655 Apr 26 J 15.20	20 031 23	
evening set	847 Feb 05 j 08:36	5° ¥ 36'14		conjunction	853 May 16 j 13:39	29° 8 11'41	1035137
evening set	847 FC0 03 J 08.30	3 7(3014		minimum elong	853 May 16 j 13:43	29° 8 11'43	
conjunction	847 Feb 22 j 08:05	7°) 41'40	-1°51'25	max. Earth dist.	853 May 16 j 17:21		10.01407 AU
minimum elong	847 Feb 22 j 08:03	7° \(\) 41'40		max. Lartii dist.	853 May 22 j 17:36	0°II	10.01407 AC
max. Earth dist.	847 Feb 22 j 04:16		10.55809 AU	morning rise	853 Jun 03 j 16:15	1° ∏ 32'42	
	-	9°\(\dagger)48'32	10.55809 AU		-	9° П 54'30	
morning rise	847 Mar 11 j 12:10			retrograde	853 Sep 17 j 19:57		1042111
retrograde	847 Jun 25 j 11:20	17° ¥ 37'15	2027151	opposition	853 Nov 23 j 21:45	6° Ⅱ 24'43	8.00458 AU
opposition	847 Sep 03 j 10:42	14° ¥ 11'23		min. Earth dist.	853 Nov 23 j 18:17		8.00438 AU
min. Earth dist.	847 Sep 03 j 13:18		8.49987 AU	direct	854 Jan 29 j 08:36	2° I I56'18	
direct	847 Nov 10 j 03:21	10° 光 50'07 18° 光 20'31		evening set	854 May 13 j 16:39	11° Ⅱ 10′11	
evening set	848 Feb 18 j 08:38	16 X 2031		conjunction	854 May 31 j 20:00	13° ∏ 31'31	1008128
agniumation	949 Mar 06 : 11:22	200¥20127	2006115	·			
conjunction minimum elong	848 Mar 06 j 11:22 848 Mar 06 j 11:21	20° 升 28'27 20° 升 28'26		minimum elong max. Earth dist.	854 May 31 j 20:03 854 Jun 01 j 01:16	13° ∏ 31'32	1°08′29 10.00127 AU
_	-				·		10.00127 AU
max. Earth dist.	848 Mar 06 j 09:11		10.43997 AU	morning rise	854 Jun 19 j 00:22	15° Ⅱ 53'09	
morning rise	848 Mar 23 j 18:45	22°) 37'51		retrograde	854 Oct 02 j 09:34	24° I 11'44	1006121
	848 Jun 11 j 17:19	0° Υ		opposition	854 Dec 08 j 04:01	20°II42'28	
retrograde	848 Jul 08 j 08:06	0° Y 36′09		min. Earth dist.	854 Dec 07 j 23:22	20° Ⅱ 43'26	8.00655 AU
	848 Aug 04 j 03:41	30° ₹ ₩	20.4215.4	direct	855 Feb 12 j 21:47	17° I I13'16	
opposition	848 Sep 15 j 20:25	27°¥08'58		evening set	855 May 28 j 21:15	25° Ⅱ 28'46	
min. Earth dist.	848 Sep 15 j 21:43		8.38260 AU		0.55 x	0.00	0025:::
direct	848 Nov 22 j 02:09	23°) 46′34		conjunction	855 Jun 16 j 02:12	27° Ⅱ 50'13	
	849 Feb 19 j 01:39	0° Υ		minimum elong	855 Jun 16 j 02:14	27° Ⅱ 50'13	
evening set	849 Mar 02 j 18:59	1° Y 25'43		max. Earth dist.	855 Jun 16 j 08:49		10.01875 AU
					855 Jul 02 j 18:40	0ංම	
conjunction	849 Mar 20 j 01:32	3° Ƴ 36'19		morning rise	855 Jul 04 j 06:44	0°911'32	
minimum elong	849 Mar 20 j 01:31	3° Y 36′19		retrograde	855 Oct 16 j 18:14	8° 5 24'29	
max. Earth dist.	849 Mar 20 j 00:27		10.32417 AU	opposition	855 Dec 22 j 08:33	4°956'02	-0°25'55
morning rise	849 Apr 06 j 12:41	5° Ƴ 48'27		min. Earth dist.	855 Dec 22 j 03:00		8.03842 AU
retrograde	849 Jul 22 j 13:11	13° Y 55'36		direct	856 Feb 27 j 11:44	1°526'22	

evening set	856 Jun 12 j 00:35	9° 5 641'13		morning rise	861 Sep 24 j 18:42	20° m 59'46	
				retrograde	862 Jan 02 j 16:48	28° Mp 20'56	
conjunction	856 Jun 30 j 05:24	12°501'49		opposition	862 Mar 11 j 11:04	25° Mp 00'29	2°40'26
minimum elong	856 Jun 30 j 05:23	12° © 01'49	0°04'00	min. Earth dist.	862 Mar 11 j 08:12	25° Mp 01'02	8.63499 AU
behind sun begin	856 Jun 29 j 22:07	11° © 59'29		direct	862 May 20 j 17:32	21° m 34'32	
behind sun end	856 Jun 30 j 12:39	12° © 04'09		evening set	862 Sep 03 j 06:22	29° m 12'45	
max. Earth dist.	856 Jun 30 j 12:43		10.06507 AU		862 Sep 09 j 19:46	0∘ ರಾ	
morning rise	856 Jul 18 j 08:20	14° © 21'51					
asc. node	856 Aug 13 j 13:36	17° © 31'37		conjunction	862 Sep 20 j 10:11	1° ≏ 17'16	2°14'25
retrograde	856 Oct 29 j 20:59	22° 5 27'17		minimum elong	862 Sep 20 j 10:09	1° ≙ 17'15	2°14'26
opposition	857 Jan 04 j 09:45	18° © 59'57	0°15'46	max. Earth dist.	862 Sep 20 j 12:39	1° ≏ 18'01	10.69193 AU
min. Earth dist.	857 Jan 04 j 04:07	19° 5 01'06	8.09782 AU	morning rise	862 Oct 07 j 09:09	3° ≏ 20'21	
direct	857 Mar 13 j 00:11	15° © 30'07		retrograde	863 Jan 14 j 23:21	10° ≏ 34'18	
evening set	857 Jun 26 j 23:40	23°5642'13		opposition	863 Mar 24 j 04:15	7° £ 15′03	2°48'07
				min. Earth dist.	863 Mar 24 j 02:51	7° ≙ 15'19	8.74923 AU
conjunction	857 Jul 15 j 02:27	26° © 01'04	0°29'13	direct	863 Jun 02 j 19:39	3° ≏ 50'26	
minimum elong	857 Jul 15 j 02:25	26° © 01'04	0°29'13	evening set	863 Sep 15 j 20:16	11° ≏ 20'41	
max. Earth dist.	857 Jul 15 j 09:34	26° © 03'21	10.13690 AU	-			
morning rise	857 Aug 02 j 02:13	28° © 18'59		conjunction	863 Oct 02 j 19:51	13° ≏ 22'40	2°17'49
S	857 Aug 15 j 18:32	$0^{\circ}\Omega$		minimum elong	863 Oct 02 j 19:51	13° ≏ 22'40	2°17'50
retrograde	857 Nov 12 j 16:57	6° Ω 15'43		max. Earth dist.	863 Oct 02 j 20:41		10.80126 AU
opposition	858 Jan 18 j 06:46	2° Ω 49'40	0°55'47	morning rise	863 Oct 19 j 15:05	15° ≏ 23'24	
min. Earth dist.	858 Jan 18 j 01:44	2°Ω50'42	8.18075 AU	retrograde	864 Jan 27 j 00:56	22° £ 31'15	
mm. Eurin dist.	858 Feb 27 j 21:42	30°R95	0.10075710	opposition	864 Apr 04 j 16:46	19° £ 13'00	2°48'15
direct	858 Mar 27 j 09:30	29°\$20'01		min. Earth dist.	864 Apr 04 j 17:04	19° ⊆ 12'57	8.85294 AU
direct	858 Apr 23 j 21:54	0°Ω		direct	864 Jun 14 j 15:30	15° ⊆ 49'44	6.632)4 AC
ovening set		7° Ω 27'29			3	23° £ 12'25	
evening set	858 Jul 11 j 15:42	1 862129		evening set	864 Sep 27 j 01:11	23 == 12 23	
agniumation	959 Jul 20 : 14.52	9° Ω 43'53	1°00'06	agniumation	964 Oct. 12 ; 21:15	25° ≙ 12'19	2°15'13
conjunction	858 Jul 29 j 14:53			conjunction	864 Oct 13 j 21:15		
minimum elong	858 Jul 29 j 14:50	9° Ω 43'52	1°00'05	minimum elong	864 Oct 13 j 21:15	25° £ 12'19	
max. Earth dist.	858 Jul 29 j 21:03		10.22954 AU	max. Earth dist.	864 Oct 13 j 20:01		10.89797 AU
morning rise	858 Aug 16 j 10:17	11° Ω 59'04		morning rise	864 Oct 30 j 13:39	27° ≙ 11'08	
	858 Sep 10 j 20:33	15° Ω			864 Nov 24 j 22:53	0°M	
retrograde	858 Nov 26 j 05:00	19° Ω 46'33		retrograde	865 Feb 06 j 21:49	4° ጤ 14'08	
opposition	859 Jan 31 j 22:32	16° Ω 21'55	1°31'46	opposition	865 Apr 17 j 01:12	0°M56'38	2°41'21
min. Earth dist.	859 Jan 31 j 18:13	16° Ω 22'47	8.28199 AU	min. Earth dist.	865 Apr 17 j 02:16	0°M56'26	8.94189 AU
	859 Feb 18 j 08:00	15° ₹ Ω			865 Apr 29 j 19:43	30° ₹ Ω	
direct	859 Apr 10 j 15:03	12° Ω 52'46		direct	865 Jun 27 j 04:55	27° ≏ 34'40	
	859 May 31 j 03:28	15° Ω			865 Aug 22 j 10:08	0° M ₊	
evening set	859 Jul 25 j 22:55	20° Ω 54'08		evening set	865 Oct 08 j 22:19	4°M50'28	
conjunction	859 Aug 12 j 17:32	23° Ω 07'38	1°27'04	conjunction	865 Oct 25 j 15:49	6°M48'44	2°07'03
minimum elong	859 Aug 12 j 17:29	23° Ω 07'37	1°27'03	minimum elong	865 Oct 25 j 15:50	6° M 48'44	2°07'03
max. Earth dist.	859 Aug 12 j 22:23	23° ₽ 09'09	10.33744 AU	max. Earth dist.	865 Oct 25 j 13:47	6° ™ 48′08	10.97832 AU
morning rise	859 Aug 30 j 07:52	25° Ω 19'45		morning rise	865 Nov 11 j 06:13	8°M46'07	
	859 Oct 11 j 09:32	0° m y			866 Jan 19 j 12:27	15° M ₊	
retrograde	859 Dec 09 j 07:01	2° m 57'54		retrograde	866 Feb 18 j 16:56	15°M45'38	
	860 Feb 09 j 01:14	30° ₹ Ω			866 Mar 21 j 11:38	15°RM	
opposition	860 Feb 14 j 08:25	29° Ω 34'43	2°01'54	opposition	866 Apr 29 j 06:23	12°M28'36	2°28'02
min. Earth dist.	860 Feb 14 j 04:40	29° Ω 35'28	8.39560 AU	min. Earth dist.	866 Apr 29 j 07:51	12°M28'20	9.01269 AU
direct	860 Apr 23 j 15:42	26° Ω 06′24		direct	866 Jul 09 j 13:46	9° M ₀07'50	
	860 Jul 03 j 06:24	0° m)			866 Oct 09 j 02:47	15° M ₊	
evening set	860 Aug 07 j 20:05	4° Mp 00'36		evening set	866 Oct 20 j 13:01	16°ML17'38	
conjunction	860 Aug 25 j 09:40	6° Mp 11'00	1°48'53	conjunction	866 Nov 06 j 04:49	18° M .14'45	1°53'55
minimum elong	860 Aug 25 j 09:37	6° Mp 10′59	1°48'52	minimum elong	866 Nov 06 j 04:51	18° M J14'45	1°53'54
max. Earth dist.	860 Aug 25 j 13:16	6° Mp 12′07	10.45452 AU	max. Earth dist.	866 Nov 06 j 02:25	18°M14'02	11.03914 AU
morning rise	860 Sep 11 j 18:37	8° m) 19'56		morning rise	866 Nov 22 j 17:59	20°M11'10	
retrograde	860 Dec 21 j 02:45	15° m) 49'14		retrograde	867 Mar 02 j 11:16	27°ML08'36	
opposition	861 Feb 26 j 12:33	12° mp 27'27	2°24'59	opposition	867 May 11 j 09:11	23°M51'47	2°09'05
min. Earth dist.	861 Feb 26 j 08:58	12° m/28'09	8.51528 AU	min. Earth dist.	867 May 11 j 11:38	23°M51'20	9.06249 AU
	001 FCU 20 FU000						
direct				direct	867 Jul 21 i 15:44	20°ML32'01	
direct evening set	861 May 07 j 08:51	9° m 00'13		direct evening set	867 Jul 21 j 15:44 867 Oct 31 i 23:18	20°M32'01 27°M36'59	
direct evening set				direct evening set	867 Jul 21 j 15:44 867 Oct 31 j 23:18	20°M32'01 27°M36'59	
evening set	861 May 07 j 08:51 861 Aug 21 j 06:30	9° 100'13 16° 1046'34	2°04'47	evening set	867 Oct 31 j 23:18	27°M36'59	1°36'25
evening set	861 May 07 j 08:51 861 Aug 21 j 06:30 861 Sep 07 j 15:02	9° m 00'13 16° m 46'34 18° m 53'54		evening set	867 Oct 31 j 23:18 867 Nov 17 j 13:54	27°M36'59 29°M33'23	1°36'25 1°36'24
evening set	861 May 07 j 08:51 861 Aug 21 j 06:30	9° m 00'13 16° m 46'34 18° m 53'54 18° m 53'54	2°04'47 2°04'47 10.57460 AU	evening set	867 Oct 31 j 23:18	27°M36'59 29°M33'23 29°M33'23	1°36′25 1°36′24 11.07787 AU

morning rise	867 Nov 21 j 08:24 867 Dec 04 j 02:43	0° 🖈 1° 🖈 29'19		conjunction minimum elong	874 Jan 23 j 06:16 874 Jan 23 j 06:14	7°≈58'37 7°≈58'36	0°56'28
retrograde opposition	868 Mar 13 j 03:14 868 May 22 j 10:34	8° ₹ 26'09 5° ₹ 09'15	1°45'19	max. Earth dist. morning rise	874 Jan 22 j 23:33 874 Feb 09 j 03:34	/°≈56'35 10°≈00'09	10.81857 AU
min. Earth dist.	868 May 22 j 14:49	5° ₹ 08'28	9.08915 AU	morning risc	874 Mar 29 j 09:13	10 ≈00 09 15°≈	
direct	868 Aug 01 j 14:10	1°×750'16	7.00713 AC	retrograde	874 May 24 j 05:36	17°≈26'06	
evening set	868 Nov 11 j 06:39	8° ∡ 751'46		8	874 Jul 21 j 07:47	15°R ≈	
Č	,			opposition	874 Aug 02 j 23:26	14° ≈ 03'18	-1°25'13
conjunction	868 Nov 27 j 20:37	10° ∡ 747′52	1°15'17	min. Earth dist.	874 Aug 03 j 04:40	14° ≈ 02'19	8.76589 AU
minimum elong	868 Nov 27 j 20:39	10° ∡ ′47′53	1°15'18	direct	874 Oct 10 j 23:33	10° ≈ 43'49	
max. Earth dist.	868 Nov 27 j 14:50	10° х 46′10	11.09269 AU		874 Dec 23 j 13:21	15° ≈	
morning rise	868 Dec 14 j 09:51	12° ∡ 43'46		evening set	875 Jan 18 j 13:55	17° ≈ 56'19	
retrograde	869 Mar 24 j 21:44	19° × ⁷ 41'38	1017127		075 E. 1. 04:10.00	100 - 50146	1001117
opposition min. Earth dist.	869 Jun 03 j 11:40 869 Jun 03 j 16:57	16° ₹ 24'24 16° ₹ 23'25	1°17'37 9.09119 AU	conjunction	875 Feb 04 j 10:00 875 Feb 04 j 09:58	19°≈58'46 19°≈58'45	
direct	869 Aug 13 j 11:57	10 x ·23 23 13° x ⁷ 05'58	9.09119 AU	minimum elong max. Earth dist.	875 Feb 04 j 09:38		10.71053 AU
evening set	869 Nov 22 j 12:35	20°×705'26		morning rise	875 Feb 21 j 09:44	22°≈02'23	10.71033 AC
evening sec	00) 1101 22 j 12.55	20 % 03 20		retrograde	875 Jun 06 j 08:12	29°≈37'33	
conjunction	869 Dec 09 j 02:40	22° ∡ *01'43	0°51'17	opposition	875 Aug 15 j 18:57	26°≈13'13	-1°54'15
minimum elong	869 Dec 09 j 02:41	22° х 01'43	0°51'17	min. Earth dist.	875 Aug 15 j 22:47	26° ≈ 12'28	8.65308 AU
max. Earth dist.	869 Dec 08 j 20:17	21° ₹ 59'50	11.08254 AU	direct	875 Oct 23 j 05:33	22° ≈ 52'52	
morning rise	869 Dec 25 j 16:45	23° ∡ ′58′01			876 Jan 29 j 07:28	0° ∀	
	870 Mar 01 j 20:49	0° ප		evening set	876 Jan 31 j 00:01	0° 升 12'13	
retrograde	870 Apr 05 j 18:06	0°る58'35					
	870 May 11 j 10:42	30°R. ✓		conjunction	876 Feb 16 j 22:24	2° 升 16'49	
opposition	870 Jun 15 j 13:24	27° 🖈 40'41	0°46'52	minimum elong	876 Feb 16 j 22:21	2° H 16'48	
min. Earth dist. direct	870 Jun 15 j 18:45 870 Aug 25 j 06:51	27° х 39'42 24° х 22'36	9.06831 AU	max. Earth dist. morning rise	876 Feb 16 j 17:56 876 Mar 05 j 00:58	4°)(22'45	10.59351 AU
direct	870 Nov 21 j 18:30	24 メ ・22 30		retrograde	876 Jun 18 j 17:27	12°\(\)(07'43	
evening set	870 Dec 03 j 19:20	0 3 1° る 21'38		opposition	876 Aug 27 j 20:21	8°) (41'51	-2°18'45
evening sec	070 Bee 05 j 17.20	1 02130		min. Earth dist.	876 Aug 27 j 23:06		8.53384 AU
conjunction	870 Dec 20 j 10:00	3° ⋜ 18′28	0°25'11	direct	876 Nov 03 j 18:15	5°) 20′28	
minimum elong	870 Dec 20 j 10:00	3° る 18'28	0°25'11	evening set	877 Feb 11 j 19:45	12°) 47′46	
max. Earth dist.	870 Dec 20 j 03:42	3° ප 16'37	11.04790 AU				
morning rise	871 Jan 06 j 01:16	5° る 15'33		conjunction	877 Feb 28 j 20:57	14°) € 54'46	-2°00'14
retrograde	871 Apr 17 j 19:30	12° る 20'23		minimum elong	877 Feb 28 j 20:54	14°) 54′46	
opposition	871 Jun 27 j 16:45	9° る 01'35	0°14'05	max. Earth dist.	877 Feb 28 j 16:57		10.47271 AU
min. Earth dist.	871 Jun 27 j 22:10	9° ろ 00'36	9.02181 AU	morning rise	877 Mar 18 j 02:52	17°) 03'15	
direct	871 Sep 06 j 02:08	5°る43'33 11°る18'20		retrograde	877 Jul 02 j 11:05	24° 升 58'04 21° 升 30'47	2027/07
desc. node evening set	871 Dec 02 j 15:49 871 Dec 15 j 04:31	11 31820 12° 3 43'41		opposition min. Earth dist.	877 Sep 10 j 03:42 877 Sep 10 j 05:53	21° X 30'47	8.41362 AU
evening set	071 Dec 13 j 04.31	12 04341		direct	877 Nov 16 j 13:36	18° \ 08'13	0.41302710
conjunction	871 Dec 31 j 19:54	14° る 41'26	-0°02'12	evening set	878 Feb 25 j 01:43	25°) (44'12	
minimum elong	871 Dec 31 j 19:55	14° ⋜ 41′26	0°02'12	, and the second	,		
behind sun begin	871 Dec 31 j 12:56	14° る 39'24		conjunction	878 Mar 14 j 06:25	27°) €53'49	-2°11'53
behind sun end	872 Jan 01 j 02:54	14° る 43'29		minimum elong	878 Mar 14 j 06:24	27° ¥ 53'49	2°11'52
max. Earth dist.	871 Dec 31 j 12:50		10.99059 AU	max. Earth dist.	878 Mar 14 j 03:38		10.35381 AU
morning rise	872 Jan 17 j 12:54	16° る 39'42			878 Mar 30 j 23:57	0° Υ	
retrograde	872 Apr 29 j 01:44	23° ろ 50'14	0010141	morning rise	878 Mar 31 j 16:03	0° Υ 04'59	
opposition min. Earth dist.	872 Jul 08 j 23:09 872 Jul 09 j 05:04	20°る30'19 20°る29'13		retrograde opposition	878 Jul 16 j 11:59 878 Sep 23 j 17:10	8° Y 09'05 4° Y 40'35	2047152
direct	872 Sep 16 j 21:04	20 82913 17° 8 12'02	8.93392 AU	min. Earth dist.	878 Sep 23 j 18:29		8.29825 AU
evening set	872 Dec 25 j 17:32	24°පි14'48		direct	878 Nov 29 j 16:38	1° Υ 16'47	8.29823 AU
evening sec	072 Bec 23 j 17.32	21 011 10		evening set	879 Mar 10 j 18:07	9° Υ 01'43	
conjunction	873 Jan 11 j 10:01	26° ප 13'47	-0°29'42			, , , , , ,	
minimum elong	873 Jan 11 j 10:00	26° ප 13'47		conjunction	879 Mar 28 j 02:56	11° Υ 14'04	-2°16'48
max. Earth dist.	873 Jan 11 j 02:27	26° ප 11'31	10.91314 AU	minimum elong	879 Mar 28 j 02:57	11° Y 14'04	2°16'48
morning rise	873 Jan 28 j 05:06	28° ප 13'33		max. Earth dist.	879 Mar 28 j 02:15		10.24287 AU
	873 Feb 12 j 18:59	0° ≈		morning rise	879 Apr 14 j 16:30	13° Y 27'57	
retrograde	873 May 11 j 11:16	5°≈31'11	00.5015.5	retrograde	879 Jul 30 j 18:46	21° Υ 40'09	20.40:
opposition	873 Jul 21 j 09:11	2°≈09'54		opposition	879 Oct 07 j 12:15	18° Y 10'39	
min. Earth dist.	873 Jul 21 j 15:16	2°≈08'46	8.86750 AU	min. Earth dist.	879 Oct 07 j 11:59	18° Y 10'43	8.19387 AU
direct	873 Aug 21 j 20:55	30°Rる 28°る51'08		direct evening set	879 Dec 13 j 04:30 880 Mar 23 j 20:52	14° Y 45'38 22° Y 39'16	
ancet	873 Sep 28 j 20:18 873 Nov 04 j 20:54	28 ⊘ 31 08 0° ≈		evening set	550 IVIAI 23 J 20.32	22 I J7 10	
evening set	874 Jan 06 j 12:11	5°≈58'03		conjunction	880 Apr 10 j 10:18	24° Ƴ 54'21	-2°14'13
J	<i>y</i>			minimum elong	880 Apr 10 j 10:20	24° Y 54'22	

may Earth dist	000 Amr 10: 11:55	2400054152	10.14622 AU	aga mada	996 Ion 22: 17:06	11° 5 09'49	
max. Earth dist.	880 Apr 10 j 11:55 880 Apr 28 j 03:59	24 1 34 32 27° Y 10'50	10.14022 AU	asc. node	886 Jan 22 j 17:06		
morning rise				direct	886 Mar 06 j 23:05	9°533'03	
	880 May 21 j 10:07	0°8		evening set	886 Jun 20 j 18:55	17°946'52	
retrograde	880 Aug 13 j 06:58	5° 8 29'14	2041156		006 7 1 00 : 22 20	200000000	001.414
opposition	880 Oct 20 j 12:15	1° 8 59'05		conjunction	886 Jul 08 j 22:38	20°506'34	0°14'44
min. Earth dist.	880 Oct 20 j 10:11	1° 8 59'30	8.10666 AU	minimum elong	886 Jul 08 j 22:38	20° © 06'34	0°14'43
	880 Nov 15 j 09:59	30° Ŗ ♈		behind sun begin	886 Jul 08 j 19:55	20° © 05'42	
direct	880 Dec 25 j 22:50	28° Ƴ 32'54		behind sun end	886 Jul 09 j 01:21	20° © 07'26	
	881 Feb 03 j 18:08	0° 8		max. Earth dist.	886 Jul 09 j 05:56	20°908'55	10.10752 AU
evening set	881 Apr 07 j 09:05	6° 8 34'25		morning rise	886 Jul 27 j 00:09	22° © 25'31	
					886 Oct 16 j 08:00	$0 { m ^o} \Omega$	
conjunction	881 Apr 25 j 03:17	8° 8 52'01	-2°03'48	retrograde	886 Nov 07 j 01:06	0° Ω 26′25	
minimum elong	881 Apr 25 j 03:20	8° 8 52'02	2°03'49		886 Nov 28 j 21:30	30° ₹ ∽	
max. Earth dist.	881 Apr 25 j 06:59	8° 8 53'14	10.06980 AU	opposition	887 Jan 12 j 14:08	27° © 00'14	0°38'27
morning rise	881 May 13 j 01:00	11° ႘ 10'49		min. Earth dist.	887 Jan 12 j 07:57	27° © 01'30	8.14865 AU
	881 Jun 14 j 00:57	15° ႘		direct	887 Mar 21 j 10:53	23° © 31'00	
retrograde	881 Aug 27 j 23:25	19° 8 32'54			887 Jun 21 j 21:45	$0^{\circ}\Omega$	
opposition	881 Nov 03 j 16:04	16° 8 02'31	-2°24'20	evening set	887 Jul 05 j 14:39	1° Ω 40'45	
min. Earth dist.	881 Nov 03 j 12:24	16° 8 03'16	8.04207 AU	Č	3		
	881 Nov 16 j 12:24	15° ₹ 8		conjunction	887 Jul 23 j 15:37	3° Ω 58'16	0°46'50
direct	882 Jan 08 j 23:30	12° 8 35'15		minimum elong	887 Jul 23 j 15:34	3° Ω 58'15	0°46'49
	882 Mar 01 j 23:06	15° 8		max. Earth dist.	887 Jul 23 j 22:52		10.19514 AU
evening set	882 Apr 22 j 05:17	20° 8 43'20		morning rise	887 Aug 10 j 13:09	6°Ω14'41	10.1301.110
evening sec	002 11p1 22 j 05.17	20 0 13 20		retrograde	887 Nov 20 j 17:10	14° Ω 06′20	
conjunction	882 May 10 j 03:50	23° 8 03'01	-1°45'40	opposition	888 Jan 26 j 08:30	10°Ω41'33	1°16'28
minimum elong	882 May 10 j 03:54	23° 8 03'02		min. Earth dist.	888 Jan 26 j 02:39	10° Ω 42'44	8.24524 AU
max. Earth dist.	882 May 10 j 09:01	_	10.01856 AU	direct	888 Apr 03 j 18:35	7° Ω 12'44	6.24324 AU
		25° 8 23'35	10.01830 AU	direct	888 Jul 16 j 19:50	7 8€ 12 44 15° Ω	
morning rise	882 May 28 j 05:02	0° I					
	882 Jul 06 j 11:54			evening set	888 Jul 19 j 02:24	15° Ω 16'51	
retrograde	882 Sep 11 j 16:56	3° Ⅱ 46'30	1057140		000 4 05:22 17	170 0 2 112 6	1015140
opposition	882 Nov 17 j 22:16	0° Ⅱ 16'18		conjunction	888 Aug 05 j 23:17	17° Ω 31'36	1°15'42
min. Earth dist.	882 Nov 17 j 17:39		8.00453 AU	minimum elong	888 Aug 05 j 23:14		1°15'42
	882 Nov 21 j 05:03	30° ₹ 8		max. Earth dist.	888 Aug 06 j 05:38		10.29870 AU
direct	883 Jan 23 j 06:15	26° 8 48'08		morning rise	888 Aug 23 j 15:51	19° Ω 45′02	
	883 Mar 24 j 20:52	Π $^{\circ}$ 0		retrograde	888 Dec 03 j 00:19	27° Ω 27'15	
evening set	883 May 07 j 07:10	5° Ⅱ 00'59		opposition	889 Feb 07 j 21:11	24° Ω 03'57	1°49'20
				min. Earth dist.	889 Feb 07 j 16:38	24° Ω 04'52	8.35444 AU
conjunction	883 May 25 j 09:16	7° Ⅲ 22'03	-1°21'12	direct	889 Apr 17 j 21:15	20° Ω 35'48	
minimum elong	883 May 25 j 09:19	7° Ⅲ 22'04	1°21'13	evening set	889 Aug 02 j 04:32	28° £ 33′13	
max. Earth dist.	883 May 25 j 15:29	7° Ⅲ 24'05	9.99619 AU		889 Aug 13 j 20:42	0° m y	
morning rise	883 Jun 12 j 12:57	9° Ⅱ 43'39					
retrograde	883 Sep 26 j 09:00	18° Ⅲ 04'31		conjunction	889 Aug 19 j 20:29	0° ™ 44'57	1°39'54
opposition	883 Dec 02 j 05:15	14° Ⅲ 34'54	-1°23'32	minimum elong	889 Aug 19 j 20:26	0° Mp 44'56	1°39'53
min. Earth dist.	883 Dec 02 j 00:08	14° Ⅲ 35'58	7.99691 AU	max. Earth dist.	889 Aug 20 j 01:09	0° Mp 46'25	10.41131 AU
direct	884 Feb 06 j 18:13	11° II 06'03		morning rise	889 Sep 06 j 07:39	2° m 55'14	
evening set	884 May 21 j 12:01	19° Ⅲ 21'31		retrograde	889 Dec 16 j 00:24	10° m) 28'29	
				opposition	890 Feb 21 j 04:18	7° m 06'37	2°15'38
conjunction	884 Jun 08 j 16:23	21° Ⅱ 43′06	-0°51'32	min. Earth dist.	890 Feb 21 j 01:32	7° mp 07'10	8.46979 AU
minimum elong	884 Jun 08 j 16:26	21° Ⅱ 43′06		direct	890 May 01 j 16:51	3° m/39'23	
max. Earth dist.	884 Jun 08 j 23:18	21° Ⅱ 45'21	10.00434 AU	evening set	890 Aug 15 j 20:05	11° m) 29'24	
morning rise	884 Jun 26 j 21:08	24° Ⅱ 04'47		Č	C 3	•	
Č	884 Aug 19 j 05:28	0°©		conjunction	890 Sep 02 j 06:50	13° mp 38'05	1°58'28
retrograde	884 Oct 09 j 20:14	2°520'56		minimum elong	890 Sep 02 j 06:47	13° m) 38'04	1°58'27
	884 Dec 01 j 13:52	30°RⅡ		max. Earth dist.	890 Sep 02 j 09:21		10.52733 AU
opposition	884 Dec 15 j 11:18	28° ∏ 52'16	-0°44'16	morning rise	890 Sep 19 j 12:46	15° m) 45'17	10.02/33110
min. Earth dist.	884 Dec 15 j 05:53		8.01981 AU	retrograde	890 Dec 28 j 16:45	23° m) 10'13	
direct	885 Feb 20 j 08:54	25° I 23'00	3.01701 AU	opposition	891 Mar 06 j 05:44	19° m) 49'39	2°34'29
311000	885 May 06 j 06:38	0°95		min. Earth dist.	891 Mar 06 j 04:21	19° m) 49'55	8.58612 AU
evening set		0 ♥ 3°©38'46		direct	-		0.50012 AU
evening set	885 Jun 05 j 17:03	046 ود∞ د			891 May 15 j 05:58	16° Mp 23'30	
aaminus sti sa	005 Jun 22 : 21 50	50050154	0010150	evening set	891 Aug 29 j 01:12	24° Mp 05'41	
conjunction	885 Jun 23 j 21:59	5°959'54			001.0 15:06.50	0.60m 1.1100	2010152
minimum elong	885 Jun 23 j 22:00	5°959'54		conjunction	891 Sep 15 j 06:58		2°10'52
max. Earth dist.	885 Jun 24 j 05:10		10.04234 AU	minimum elong	891 Sep 15 j 06:56	26° Mp 11'27	
morning rise	885 Jul 12 j 01:59	8°\$20'40		max. Earth dist.	891 Sep 15 j 07:28		10.64194 AU
retrograde	885 Oct 24 j 01:42	16°©29'57		morning rise	891 Oct 02 j 08:07	28° m 15'50	
opposition	885 Dec 29 j 14:40	13°502'27		_	891 Oct 17 j 04:58	0∘ ⊽	
min. Earth dist.	885 Dec 29 j 08:57	13° © 03'38	8.07161 AU	retrograde	892 Jan 10 j 01:11	5° ≏ 33'15	

annagition	892 Mar 18 j 01:34	20 0 12147	2045125	annagition	909 May 20 : 19:05	11° ∡ 753'31	1920/51
opposition	•	2° £ 13'47 2° £ 13'55		opposition	898 May 29 j 18:05		
min. Earth dist.	892 Mar 18 j 00:56		8.69851 AU	min. Earth dist.	898 May 29 j 21:56	11° 🗷 52'48	9.07037 AU
1.	892 Apr 18 j 17:14	30°R, Mp		direct	898 Aug 08 j 21:15	8° 🗷 34'14	
direct	892 May 27 j 13:19	28° Mp 48'46		evening set	898 Nov 18 j 03:38	15° ∡ ³35′06	
	892 Jul 04 j 21:14	0∘ ⊽					
evening set	892 Sep 09 j 20:03	6° £ 23′03		conjunction	898 Dec 04 j 17:51	17° ∡ ³31'30	
				minimum elong	898 Dec 04 j 17:53	17° ∡ ³31'30	1°01'47
conjunction	892 Sep 26 j 21:27	8° ഫ 26'13	2°16'59	max. Earth dist.	898 Dec 04 j 12:45	17° ∡ "30′00	11.06776 AU
minimum elong	892 Sep 26 j 21:26	8° ഫ 26'12	2°17'00	morning rise	898 Dec 21 j 07:32	19° ∡ "27'48	
max. Earth dist.	892 Sep 26 j 21:00	8° ≏ 26'04	10.75033 AU	retrograde	899 Apr 01 j 02:40	26° ∡ ¹27'35	
morning rise	892 Oct 13 j 18:23	10° ≏ 28'03		opposition	899 Jun 10 j 19:42	23° ₹ 09'24	1°00'14
retrograde	893 Jan 21 j 06:19	17° ≏ 39'00		min. Earth dist.	899 Jun 11 j 00:26	23° ₹ 08'31	9.06038 AU
opposition	893 Mar 30 j 16:37	14° £ 20′24	2°49'00	direct	899 Aug 20 j 15:25	19° ∡ 50'35	
min. Earth dist.	893 Mar 30 j 16:33	14° ≙ 20'25	8.80222 AU	evening set	899 Nov 29 j 10:08	26° ₹ 50'14	
direct	893 Jun 09 j 13:10	10° ≏ 56'34					
evening set	893 Sep 22 j 05:13	18° ≏ 23'05		conjunction	899 Dec 16 j 00:28	28° ∡ ¹46'57	0°36'26
C	1 3			minimum elong	899 Dec 16 j 00:29	28° ∡ ¹46'57	0°36'26
conjunction	893 Oct 09 j 02:57	20° £ 24'02	2°16'57	max. Earth dist.	899 Dec 15 j 18:16	28° ∡ ¹45'07	11.04690 AU
minimum elong	893 Oct 09 j 02:58	20° - 24′02	2°16'58		899 Dec 26 j 08:38	0°ප	
max. Earth dist.	893 Oct 09 j 02:05		10.84800 AU	morning rise	900 Jan 01 j 15:22	್ರಂಕ್ರ 0°ಕ್ಕ43'51	
morning rise	893 Oct 25 j 20:29	22° £ 23'46	10.04000 710	retrograde	900 Apr 12 j 00:54	7° る 47'05	
retrograde	894 Feb 02 j 06:27	29° £ 29'23		opposition	900 Jun 21 j 22:34	4°る28'12	0°28'09
opposition	894 Apr 12 j 03:22		2°45'06	min. Earth dist.	900 Jun 21 j 22.34 900 Jun 22 j 03:52	4 02812 4° る 27'13	9.02820 AU
**	1 3	26° £ 11′26			,		9.02820 AU
min. Earth dist.	894 Apr 12 j 04:28	26° £ 11'13	8.89307 AU	direct	900 Aug 31 j 11:39	1°る09'39	
direct	894 Jun 22 j 04:48	22° £ 48'43		evening set	900 Dec 09 j 18:07	8° る 09'35	
	894 Oct 03 j 02:28	0°M					
evening set	894 Oct 04 j 06:07	0°M08'03		conjunction	900 Dec 26 j 09:09	10° පි 07'01	0°09'32
				minimum elong	900 Dec 26 j 09:09	10° ろ 07'01	0°09'32
conjunction	894 Oct 21 j 00:52	2°MJ07'11	2°11'09	behind sun begin	900 Dec 26 j 03:19	10° る 05'19	
minimum elong	894 Oct 21 j 00:53	2°Mo7'11	2°11'09	behind sun end	900 Dec 26 j 14:58	10° る 08'43	
max. Earth dist.	894 Oct 20 j 22:46	2°M06'33	10.93110 AU	max. Earth dist.	900 Dec 26 j 03:13	10° る 05'17	11.00425 AU
morning rise	894 Nov 06 j 16:03	4°M05'19		morning rise	901 Jan 12 j 01:31	12° る 04'52	
retrograde	895 Feb 14 j 01:45	11° M .06'49		retrograde	901 Apr 24 j 04:48	19° る 13'05	
opposition	895 Apr 24 j 10:16	7° M 49'18	2°34'29	desc. node	901 May 05 j 08:44	19° る 07'02	
min. Earth dist.	895 Apr 24 j 13:02	7° M .48'47	8.96766 AU	opposition	901 Jul 04 j 03:41	15° පි 53'16	-0°05'22
direct	895 Jul 04 j 15:26	4°M27'36		min. Earth dist.	901 Jul 04 j 08:19	15° る 52'25	8.97496 AU
evening set	895 Oct 16 j 00:02	11°ML40'36		direct	901 Sep 12 j 07:34	12° る 34'48	
C	,			evening set	901 Dec 21 j 05:15	19° る 36'32	
conjunction	895 Nov 01 j 16:31	13°MJ38'22	2°00'05	8	,		
minimum elong	895 Nov 01 j 16:33	13°MJ38'23	2°00'04	conjunction	902 Jan 06 j 21:25	21° る 35'02	-0°18'06
max. Earth dist.	895 Nov 01 j 12:36		10.99660 AU	minimum elong	902 Jan 06 j 21:24	21°る35'02	
max. Earth dist.	895 Nov 13 j 05:02	15°M	10.55000 110	max. Earth dist.	902 Jan 06 j 16:23		10.94118 AU
morning rise	895 Nov 18 j 06:21	15°M35'23		morning rise	902 Jan 23 j 15:30	23° ප 334'11	10.54116 AC
retrograde	896 Feb 25 j 19:33	22°MJ34'11		morning risc	902 Apr 04 j 19:02	23 ⊙ 3411	
opposition	896 May 05 j 14:27		2°17'51	ratragrada		0 ≈ 0° ≈ 48'46	
**	, ,	19°M16'50		retrograde	902 May 06 j 13:50		
min. Earth dist.	896 May 05 j 18:06	19°M 16'09	9.02321 AU	*.*	902 Jun 07 j 20:37	30°Rる	0020100
direct	896 Jul 15 j 21:36	15°M56'03		opposition	902 Jul 16 j 12:00	27° る 27'54	
evening set	896 Oct 26 j 12:21	23°M03'45		min. Earth dist.	902 Jul 16 j 15:53		8.90245 AU
	00634	0.504	1044155	direct	902 Sep 24 j 04:35	24° る 09'17	
conjunction	896 Nov 12 j 03:26	25°M00'37			902 Dec 22 j 03:59	0° ≈	
minimum elong	896 Nov 12 j 03:28	25°M00'38	1°44'21	evening set	903 Jan 01 j 21:31	1° ≈ 14'22	
max. Earth dist.	896 Nov 11 j 22:51		11.04213 AU				
morning rise	896 Nov 28 j 16:34	26°M56'57		conjunction	903 Jan 18 j 14:56	3° ≈ 14'14	
	896 Dec 26 j 19:50	0° ∡		minimum elong	903 Jan 18 j 14:54	3° ≈ 14'14	0°45'19
retrograde	897 Mar 08 j 12:19	3° ∡ ¹54'35		max. Earth dist.	903 Jan 18 j 09:59	3° ≈ 12'45	10.85995 AU
opposition	897 May 17 j 16:44	0° ∡ ³37′08	1°56'02	morning rise	903 Feb 04 j 11:06	5° ≈ 14'59	
min. Earth dist.	897 May 17 j 20:16	0° ∡ ³36′28	9.05782 AU	retrograde	903 May 19 j 05:58	12° ≈ 37'12	
	897 May 26 j 03:08	30°RM₊		opposition	903 Jul 29 j 00:24	9° ≈ 15′09	-1°11'56
direct	897 Jul 27 j 23:14	27° M 17'11		min. Earth dist.	903 Jul 29 j 04:03	9° ≈ 14'27	8.81341 AU
	897 Sep 25 j 14:56	0°⊀		direct	903 Oct 06 j 04:32	5° ≈ 56'09	
evening set	897 Nov 06 j 20:59	4° ∡ °20'47		evening set	904 Jan 13 j 20:12	13° ≈ 06'03	
=	•			=	904 Jan 29 j 14:12	15° ≈	
conjunction	897 Nov 23 j 11:25	6° ∡ 17'12	1°24'41		Ÿ		
minimum elong	897 Nov 23 j 11:28	6° х 17′13		conjunction	904 Jan 30 j 15:11	15° ≈ 07'35	-1°11'04
max. Earth dist.	897 Nov 23 j 07:08		11.06613 AU	minimum elong	904 Jan 30 j 15:09	15°≈07'34	
morning rise	897 Dec 10 j 00:27	8°×13'17		max. Earth dist.	904 Jan 30 j 10:01		10.76383 AU
retrograde	898 Mar 20 j 07:33	15° 🖈 11'15		morning rise	904 Feb 16 j 13:50	17°≈10'14	20., 0505 710
- Uno Brudo	570 1.141 20 J 01.55	, 1110			.0.140 10 115.50	1, , • 10 17	

rotro aro do	904 May 31 j 04:03	24°≈41'08		min. Earth dist.	910 Oct 28 j 20:52	100 12126	8.08969 AU
retrograde	, ,		1042121	direct	910 Oct 28 j 20.32 911 Jan 03 j 06:42	6° 8 45'53	8.08909 AU
opposition min. Earth dist.	904 Aug 09 j 17:51 904 Aug 09 j 21:29	21°≈17'47	8.71148 AU	evening set	911 Apr 16 j 03:36	14° 8 50'08	
direct	904 Aug 09 j 21.29 904 Oct 17 j 08:36	21 ≈1700 17°≈58'12	6./1146 AU	evening set	911 Apr 10 j 05.36 911 Apr 17 j 10:34	14 83008 15° 8	
		17 ≈38 12 25°≈14'14			911 Apr 1/ J 10.34	13 0	
evening set	905 Jan 25 j 02:32	23 ≈14 14		conjunction	911 May 04 j 00:02	17° 8 08'37	1054121
agniumation	905 Feb 10 j 23:41	27°≈17'44	1024!11	minimum elong	911 May 04 j 00:02 911 May 04 j 00:06	17° 8 08'38	
conjunction	3	27 ≈1744 27°≈17'43		max. Earth dist.	911 May 04 j 00:06 911 May 04 j 02:43	_	1 34 21 10.05848 AU
minimum elong max. Earth dist.	905 Feb 10 j 23:38		1 34 11 10.65669 AU	morning rise		17 80930 19° 8 28'10	10.03646 AU
	905 Feb 10 j 19:37		10.03009 AU	Č	911 May 21 j 23:47		
morning rise	905 Feb 28 j 01:02	29° ≈ 22'32		retrograde	911 Sep 05 j 16:18	27° 8 49'56	201.0102
	905 Mar 05 j 06:40	0° \		opposition	911 Nov 12 j 02:57	24° 8 20'05	
retrograde	905 Jun 13 j 08:55	7°) €02'49	2000152	min. Earth dist.	911 Nov 12 j 00:12	24° 8 20'39	8.03635 AU
opposition	905 Aug 22 j 16:40	3° ∺ 38′07		direct	912 Jan 17 j 11:29	20° 8 52'41	
min. Earth dist.	905 Aug 22 j 19:27	3° ¥ 37'35	8.60080 AU	evening set	912 Apr 30 j 02:18	29° 8 02'33	
direct	905 Oct 29 j 20:09	0°) 17'44			912 May 07 j 12:45	$\Pi^{\circ}0$	
evening set	906 Feb 06 j 17:57	7°) 41′02				🗕	
				conjunction	912 May 18 j 02:53	1° Ⅱ 22'47	
conjunction	906 Feb 23 j 17:50	9° ¥ 46'46		minimum elong	912 May 18 j 02:56	1° Ⅱ 22'49	
minimum elong	906 Feb 23 j 17:48	9°) 46′46		max. Earth dist.	912 May 18 j 07:32		10.01919 AU
max. Earth dist.	906 Feb 23 j 15:23		10.54292 AU	morning rise	912 Jun 05 j 05:34	3° Ⅱ 43'45	
morning rise	906 Mar 12 j 22:07	11° ¥ 53'55		retrograde	912 Sep 19 j 07:24	12° Ⅱ 04'49	
retrograde	906 Jun 26 j 23:28	19°) 43′48		opposition	912 Nov 25 j 08:49	8° Ⅱ 35'09	
opposition	906 Sep 04 j 21:01	16°) 17'46	-2°29'56	min. Earth dist.	912 Nov 25 j 04:39	8° Ⅲ 36′01	8.01109 AU
min. Earth dist.	906 Sep 04 j 22:30	16° ∺ 17'29	8.48597 AU	direct	913 Jan 30 j 21:01	5° Ⅱ 06'46	
direct	906 Nov 11 j 12:26	12° ¥ 56′24		evening set	913 May 15 j 05:16	13° Ⅱ 20′16	
evening set	907 Feb 19 j 19:11	20° ∺ 27'47					
				conjunction	913 Jun 02 j 08:51	15° Ⅱ 41'30	-1°04'59
conjunction	907 Mar 08 j 22:15	22° ∺ 35'59	-2°07'33	minimum elong	913 Jun 02 j 08:54	15° Ⅱ 41'31	1°05'00
minimum elong	907 Mar 08 j 22:14	22° ∺ 35'59	2°07'32	max. Earth dist.	913 Jun 02 j 14:57	15° Ⅱ 43'29	10.00915 AU
max. Earth dist.	907 Mar 08 j 21:07	22°) ₹35′38	10.42744 AU	morning rise	913 Jun 20 j 13:11	18° Ⅲ 03′00	
morning rise	907 Mar 26 j 05:53	24°) 45′40		retrograde	913 Oct 03 j 19:56	26° Ⅲ 20'37	
	907 May 13 j 10:12	$0^{\circ}\mathbf{\Upsilon}$		opposition	913 Dec 09 j 14:31	22° I 51'30	-1°01'56
retrograde	907 Jul 10 j 21:26	2° Y 44'52		min. Earth dist.	913 Dec 09 j 09:27	22° I 52'33	8.01559 AU
-	907 Sep 09 j 07:27	30° ₹ ₩		direct	914 Feb 14 j 09:10	19° Ⅲ 22'22	
opposition	907 Sep 18 j 07:24	29° ∺ 17'35	-2°44'01	evening set	914 May 30 j 09:29	27° I 37'18	
min. Earth dist.	907 Sep 18 j 07:36		8.37189 AU	C	, ,		
direct	907 Nov 24 j 11:04	25° ¥ 55'05		conjunction	914 Jun 17 j 14:27	29° Ⅱ 58'34	-0°33'28
	908 Feb 02 j 10:50	$0^{\circ}\Upsilon$		minimum elong	914 Jun 17 j 14:28	29° Ⅱ 58'35	0°33'28
evening set	908 Mar 04 j 06:29	3° Y 35′02		g	914 Jun 17 j 18:51	0.0e	0 23 20
e venning see	500 Mar 0. j 00.25	3 . 30 02		max. Earth dist.	914 Jun 17 j 21:22		10.02888 AU
conjunction	908 Mar 21 j 13:17	5° Ƴ 45'51	-2°15'24	morning rise	914 Jul 05 j 18:46	2°519'39	10.02000710
minimum elong	908 Mar 21 j 13:16	5° Υ 45'51		retrograde	914 Oct 18 j 04:19	10°931'31	
max. Earth dist.	908 Mar 21 j 12:36		10.31533 AU	opposition	914 Dec 23 j 18:26	7°903'15	-0°21'10
morning rise	908 Apr 08 j 00:48	7° Υ 58'11	10.51555 AC	min. Earth dist.	914 Dec 23 j 13:03	7°904'22	8.04945 AU
retrograde	908 Jul 24 j 01:42	16° Υ 05'53		direct	915 Feb 28 j 21:41	3°933'38	0.04743710
opposition	908 Sep 30 j 23:32	10 γ 03 33	2040146	evening set	915 Jun 14 j 12:06	11°947'47	
min. Earth dist.	908 Sep 30 j 23:13		8.26364 AU	evening set	913 Juli 14 j 12.00	11 34/4/	
direct	908 Dec 06 j 17:58	9° Υ 13'47	8.20304 AU	conjunction	915 Jul 02 j 16:37	14° © 08'08	0.00,08
evening set	909 Mar 18 j 04:13	17° Y 02'29		minimum elong	915 Jul 02 j 16:38	14°908'08	0°00'09
evening set	909 Iviai 10 j 04.13	17 10229		_	·	14°505'49	0 00 09
:	000 4 04:15:10	19° Ƴ 16'01	2017/07	behind sun begin	915 Jul 02 j 09:22		
conjunction	909 Apr 04 j 15:19	19° Y 16'01		behind sun end	915 Jul 02 j 23:53	14°9510'28	10.07(01 AII
minimum elong	909 Apr 04 j 15:20			max. Earth dist.	915 Jul 02 j 23:37		10.07691 AU
max. Earth dist.	909 Apr 04 j 15:07		10.21209 AU	asc. node	915 Jul 04 j 03:50	14°9519'32	
morning rise	909 Apr 22 j 07:03	21° Y 31'01		morning rise	915 Jul 20 j 19:18	16°527'53	
retrograde	909 Aug 07 j 11:03	29° Y 45'43	2046110	retrograde	915 Nov 01 j 06:42	24°532'09	0000100
opposition	909 Oct 14 j 20:44	26° Y 16'34		opposition	916 Jan 06 j 18:58	21°505'00	0°20'23
min. Earth dist.	909 Oct 14 j 20:02		8.16734 AU	min. Earth dist.	916 Jan 06 j 14:01	21°906'01	8.11031 AU
direct	909 Dec 20 j 08:43	22° Y 51'33		direct	916 Mar 14 j 09:51	17°535'14	
	910 Mar 26 j 00:49	0° 8		evening set	916 Jun 28 j 10:11	25° © 46'33	
evening set	910 Apr 01 j 11:44	0° 8 48'35			016 7 1 161 161	200-20	0022117
	010 4 10 100 20	201.20	2000101	conjunction	916 Jul 16 j 12:34	28°905'06	0°32'47
conjunction	910 Apr 19 j 03:31	3° 8 04'46		minimum elong	916 Jul 16 j 12:33	28°905'05	0°32'47
minimum elong	910 Apr 19 j 03:33	3° 8 04'46		max. Earth dist.	916 Jul 16 j 18:44		10.14980 AU
max. Earth dist.	910 Apr 19 j 04:24		10.12436 AU		916 Jul 31 j 12:04	0°N	
morning rise	910 May 06 j 23:27	5° 8 22'15		morning rise	916 Aug 03 j 12:04	0° Ω 22'42	
retrograde	910 Aug 22 j 00:49	13° 8 41'48	2022112	retrograde	916 Nov 14 j 00:59	8° Ω 18'16	0050:50
opposition	910 Oct 28 j 22:21	10° 8 12'08	-2°32'49	opposition	917 Jan 19 j 15:10	4° Ω 52'25	0°59'59

min. Earth dist.	917 Jan 19 j 10:47	4°Ω53'18	8.19395 AU	retrograde	923 Jan 28 j 04:23	24° ≏ 23'24	
direct	917 Mar 28 j 19:44	1°Ω22'50	0.17570 110	opposition	923 Apr 06 j 21:52	21° ₽ 05'09	2°47'38
evening set	917 Jul 13 j 01:17	9° Ω 29'29		min. Earth dist.	923 Apr 06 j 22:19	21° ≏ 05'04	8.85659 AU
<i>8</i>	,	. •••		direct	923 Jun 16 j 20:55	17° ≏ 41'56	
conjunction	917 Jul 31 j 00:01	11° Ω 45'33	1°03'16	evening set	923 Sep 29 j 05:19	25° ≏ 04'15	
minimum elong	917 Jul 30 j 23:58	11° Ω 45'32	1°03'15	C	1 3		
max. Earth dist.	917 Jul 31 j 05:07	11° Ω 47'10	10.24273 AU	conjunction	923 Oct 16 j 01:16	27° ₽ 04'05	2°14'23
morning rise	917 Aug 17 j 19:04	14° Ω 00′25		minimum elong	923 Oct 16 j 01:17	27° ₽ 04'06	2°14'23
	917 Aug 25 j 20:53	15° Ω		max. Earth dist.	923 Oct 15 j 23:45	27° ≙ 03'38	10.90025 AU
retrograde	917 Nov 27 j 10:27	21° Ω 46'48		morning rise	923 Nov 01 j 17:34	29° ഫ 02'52	
opposition	918 Feb 02 j 06:06	18° Ω 22'20	1°35'20		923 Nov 09 j 23:34	0° M	
min. Earth dist.	918 Feb 02 j 01:56	18° Ω 23'10	8.29508 AU	retrograde	924 Feb 09 j 01:58	6°M05'50	
	918 Mar 31 j 18:02	15° Ŗℳ		opposition	924 Apr 18 j 06:01	2°M48'18	2°39'57
direct	918 Apr 12 j 01:26	14° £ 53′16		min. Earth dist.	924 Apr 18 j 06:49	2°M48'09	8.94271 AU
	918 Apr 23 j 07:22	15° Ω			924 Jun 01 j 17:27	30° ₹ Ω	
evening set	918 Jul 27 j 07:24	22° Ω 53'48		direct	924 Jun 28 j 10:57	29° ≏ 26'22	
					924 Jul 24 j 20:27	0° M ₊	
conjunction	918 Aug 14 j 01:35	25° Ω 06'57	1°29'40	evening set	924 Oct 10 j 02:07	6° M 41′58	
minimum elong	918 Aug 14 j 01:32	25° Ω 06'56	1°29'40				
max. Earth dist.	918 Aug 14 j 05:58		10.35013 AU	conjunction	924 Oct 26 j 19:39	8°M40'15	2°05'37
morning rise	918 Aug 31 j 15:27	27° Ω 18'45		minimum elong	924 Oct 26 j 19:40	8°M40'15	2°05'36
1	918 Sep 23 j 10:39	0° m)		max. Earth dist.	924 Oct 26 j 17:57		10.97776 AU
retrograde	918 Dec 10 j 13:16	4° Mp 56'00	2004142	morning rise	924 Nov 12 j 09:55	10°M37'37	
opposition	919 Feb 15 j 15:20	1° My 32'55	2°04'42		924 Dec 24 j 13:28	15°M	
min. Earth dist.	919 Feb 15 j 11:18	1° M) 33'43	8.40783 AU	retrograde	925 Feb 19 j 22:44	17°ML37'17	
direct	919 Mar 07 j 19:45	30°R Λ 28° Λ 04'42		opposition	925 Apr 21 j 11:46	15°R M 14° M -20'13	2°25'56
direct	919 Apr 25 j 23:45 919 Jun 13 j 08:36	28 8 2 04 42		min. Earth dist.	925 Apr 30 j 11:21 925 Apr 30 j 13:05	14 IIL2013 14°ML19'54	9.01068 AU
evening set	919 Juli 13 j 08:30 919 Aug 10 j 03:20	5° Mp 58'02		direct	925 Jul 10 j 17:39	10°M59'30	9.01008 AU
evening set	717 Aug 10 J 03.20	3 hg 30 02		uncet	925 Sep 22 j 13:38	15°M	
conjunction	919 Aug 27 j 16:35	8° m 08'09	1°50'50	evening set	925 Oct 21 j 16:48	18° ML 09'15	
minimum elong	919 Aug 27 j 16:32	8° m ,08'08	1°50'49	evening set	723 Oct 21 j 10.40	10 1100713	
max. Earth dist.	919 Aug 27 j 20:27	8° Mp 09'21	10.46602 AU	conjunction	925 Nov 07 j 08:32	20°ML06'25	1°51'55
morning rise	919 Sep 14 j 01:01	10° m) 16'47	10.10002110	minimum elong	925 Nov 07 j 08:34	20°ML06'25	1°51'54
retrograde	919 Dec 23 j 09:09	17° m) 45'19		max. Earth dist.	925 Nov 07 j 05:46		11.03586 AU
opposition	920 Feb 28 j 18:51	14° m) 23'37	2°26'56	morning rise	925 Nov 23 j 21:44	22°ML02'54	
min. Earth dist.	920 Feb 28 j 15:23	14° m) 24'18	8.52599 AU	retrograde	926 Mar 03 j 15:09	29°M00'39	
direct	920 May 08 j 15:10	10° m 56'28		opposition	926 May 12 j 14:29	25°M43'48	2°06'22
evening set	920 Aug 22 j 12:51	18° m 42'03		min. Earth dist.	926 May 12 j 17:45	25°M43'11	9.05797 AU
				direct	926 Jul 22 j 19:43	22°M24'02	
conjunction	920 Sep 08 j 21:03	20° m 49'09	2°06'02	evening set	926 Nov 02 j 03:11	29°M29'09	
minimum elong	920 Sep 08 j 21:01	20° m 49'08	2°06'02		926 Nov 06 j 13:50	0° ∡ ¹	
max. Earth dist.	920 Sep 09 j 00:15	20° m 50'08	10.58430 AU				
morning rise	920 Sep 26 j 00:15	22° m 54'47		conjunction	926 Nov 18 j 17:45	1° ∡ ¹25'37	1°33'57
	920 Dec 17 j 23:32	0∘ 亚		minimum elong	926 Nov 18 j 17:47	1° ∡ ¹25'38	1°33'57
retrograde	921 Jan 03 j 21:27	0° ≙ 15′18		max. Earth dist.	926 Nov 18 j 13:05		11.07234 AU
	921 Jan 20 j 21:24	30° ₽, M)		morning rise	926 Dec 05 j 06:47	3° ∡ ′21′40	
opposition	921 Mar 12 j 16:48	26° Mp 54'56	2°41'31	retrograde	927 Mar 15 j 08:35	10° ∡ 18'59	
min. Earth dist.	921 Mar 12 j 14:49	26° m 55'19	8.64368 AU	opposition	927 May 24 j 16:05	7° ∡ '02'02	1°42'04
direct	921 May 21 j 23:54	23° m/29'01		min. Earth dist.	927 May 24 j 20:34	7° ∡ ′01′13	9.08264 AU
. ,	921 Aug 26 j 00:48	0° ⊽		direct	927 Aug 03 j 20:09	3° ₹ 143'02	
evening set	921 Sep 04 j 11:55	1° 亞 06'38		evening set	927 Nov 13 j 10:45	10° ∡ 744'47	
aonius sti su	021 9 21 / 15 10	20 0 10156	2014/57	aaminti	027 N 20 : 00 52	100.7/41/01	1010105
conjunction	921 Sep 21 j 15:19	3° £ 10′56	2°14'57 2°14'58	conjunction	927 Nov 30 j 00:52	12° 🗷 41'01	1°12'25
minimum elong max. Earth dist.	921 Sep 21 j 15:18		10.69939 AU	minimum elong max. Earth dist.	927 Nov 30 j 00:54	12° √ 41'01	1°12'26 11.08542 AU
max. Earth dist.	921 Sep 21 j 16:53 921 Oct 08 j 14:01	5° £ 11′24	10.02737 AU	max. Earth dist.	927 Nov 29 j 19:22 927 Dec 16 j 14:15	12° x '39'23 14° x '37'03	11.00344 AU
retrograde	922 Jan 16 j 04:14	12° £ 27'21		retrograde	928 Mar 26 j 03:05	21° × ⁷ 35'30	
opposition	922 Jan 10 j 04:14 922 Mar 25 j 09:41	9° £ 08'09	2°48'20	opposition	928 Jun 04 j 17:31	18° 🖈 18'09	1°13'56
min. Earth dist.	922 Mar 25 j 09:11	9° ≏ 08'15	8.75553 AU	min. Earth dist.	928 Jun 04 j 22:13	18° х 1803	9.08317 AU
direct	922 Jun 04 j 01:36	5° £ 43'35	3.,2303 110	direct	928 Aug 14 j 16:46	14° × 17 18	,, 11O
evening set	922 Sep 17 j 00:59	13° ⊆ 13'19		evening set	928 Nov 23 j 17:06	21° × ⁷ 59'31	
	P 1, J 00.07			- ·	2201.00 2 0 j 17.00	0, 51	
conjunction	922 Oct 04 j 00:14	15° ≏ 15'10	2°17'39	conjunction	928 Dec 10 j 07:21	23° ∡ ¹55'56	0°48'07
minimum elong	922 Oct 04 j 00:13		2°17'40	minimum elong	928 Dec 10 j 07:23	23° ∡ ¹55'56	0°48'07
max. Earth dist.	922 Oct 03 j 23:54		10.80622 AU	max. Earth dist.	928 Dec 10 j 01:45		11.07390 AU
morning rise	922 Oct 20 j 19:21	17° ≏ 15'48		morning rise	928 Dec 26 j 21:29	25° ∡ 52′23	

	929 Feb 04 j 14:04	0° ට		evening set	935 Feb 01 j 09:40	2° 升 17′20	
retrograde	929 Feb 04 j 14.04 929 Apr 07 j 01:30	0 る 2° る 53'39		evening set	933 Feb 01 J 09.40	2 K 1/20	
retrograde	929 Jun 11 j 07:03	30°R ✓		conjunction	935 Feb 18 j 08:11	4°) 22'09	-1°45'17
opposition	929 Jun 16 j 19:48	29° х 35′38	0°42'53	minimum elong	935 Feb 18 j 08:08	4°) €22'09	
min. Earth dist.	929 Jun 17 j 00:43	29° х 34'44	9.05902 AU	max. Earth dist.	935 Feb 18 j 03:18		10.58119 AU
direct	929 Aug 26 j 12:47	26° ∡ 17'32		morning rise	935 Mar 07 j 11:05	6° ∺ 28'21	
	929 Nov 04 j 12:34	0°ರ		retrograde	935 Jun 21 j 05:37	14° ₩ 14'18	
evening set	929 Dec 05 j 00:26	3° ප 16'59		opposition	935 Aug 30 j 07:01	10°) 48′20	-2°21'14
				min. Earth dist.	935 Aug 30 j 10:03	10°) 47'44	8.52201 AU
conjunction	929 Dec 21 j 15:08	5° る 13'58	0°21'50	direct	935 Nov 06 j 03:19	7° ∺ 26'50	
minimum elong	929 Dec 21 j 15:09	5° る 13'58	0°21'50	evening set	936 Feb 14 j 06:23	14° ∺ 55'01	
max. Earth dist.	929 Dec 21 j 08:42	5° る 12'05	11.03801 AU				
morning rise	930 Jan 07 j 06:37	7° る 11'15		conjunction	936 Mar 02 j 07:49	17°) €02'14	-2°01'53
retrograde	930 Apr 19 j 03:18	14° る 16'51		minimum elong	936 Mar 02 j 07:47	17° ∺ 02'14	
opposition	930 Jun 28 j 23:50	10° る 57'58	0°09'55	max. Earth dist.	936 Mar 02 j 03:58		10.46147 AU
min. Earth dist.	930 Jun 29 j 05:36	10° る 56'54	9.01133 AU	morning rise	936 Mar 19 j 14:04	19° 米 10′58	
direct	930 Sep 07 j 07:04	7° る 39'53		retrograde	936 Jul 03 j 23:01	27° ₩ 06'39	
desc. node	930 Oct 18 j 00:41	9° る 00'30		opposition	936 Sep 11 j 15:04	23°) 39'16	
evening set	930 Dec 16 j 10:15	14° る 40'34		min. Earth dist.	936 Sep 11 j 17:18		8.40319 AU
	021 I 02:01:42	1.69=2.9120	0005120	direct	936 Nov 18 j 00:10	20° 升 16'36 27° 升 53'22	
conjunction	931 Jan 02 j 01:43 931 Jan 02 j 01:42	16°る38'29 16°る38'29		evening set	937 Feb 26 j 13:11	21 K 33 22	
minimum elong behind sun begin	931 Jan 02 j 01.42 931 Jan 01 j 18:59	16 3 36'31	0 03 38	conjunction	937 Mar 15 j 18:17	0° Υ 03'13	2012/44
behind sun end	931 Jan 02 j 08:25	16 33031 16° 3 40'27		minimum elong	937 Mar 15 j 18:16	0° Υ 03'13	
max. Earth dist.	931 Jan 01 j 18:06		10.97958 AU	minimum clong	937 Mar 15 j 08:08	0° γ	2 12 73
morning rise	931 Jan 18 j 19:00	18° る 36'58	10.57550710	max. Earth dist.	937 Mar 15 j 16:29		10.34424 AU
retrograde	931 May 01 j 08:01	25° ♂ 48'24		morning rise	937 Apr 02 j 04:11	2°Υ14'36	10.54424710
opposition	931 Jul 11 j 06:48	22° る 28'22	-0°23'52	retrograde	937 Jul 17 j 23:44	10°Υ19'25	
min. Earth dist.	931 Jul 11 j 13:05		8.94241 AU	opposition	937 Sep 25 j 04:58	6°Υ50'48	-2°48'24
direct	931 Sep 19 j 03:32	19° る 10'03		min. Earth dist.	937 Sep 25 j 05:43	6° Ƴ 50'39	8.28976 AU
evening set	931 Dec 28 j 00:03	26° ප 13'30		direct	937 Dec 01 j 04:53	3° Y 26'54	
	v			evening set	938 Mar 12 j 06:33	11° Υ 12'31	
conjunction	932 Jan 13 j 16:43	28° る 12'41	-0°33'05				
minimum elong	932 Jan 13 j 16:42	28° る 12'41	0°33'06	conjunction	938 Mar 29 j 15:50	13° Y 25′05	-2°16'45
max. Earth dist.	932 Jan 13 j 09:35	28° る 10'33	10.90115 AU	minimum elong	938 Mar 29 j 15:50	13° Y 25′05	2°16'45
	932 Jan 28 j 16:52	0° ≈		max. Earth dist.	938 Mar 29 j 16:11		10.23545 AU
morning rise	932 Jan 30 j 11:59	0° ≈ 12'40		morning rise	938 Apr 16 j 05:38	15° Ƴ 39'09	
retrograde	932 May 12 j 20:43	7° ≈ 31'20		retrograde	938 Aug 01 j 07:26	23° Y 51'47	
opposition	932 Jul 22 j 17:30	4°≈09'55		opposition	938 Oct 09 j 00:14	20° Y 22′13	
min. Earth dist.	932 Jul 22 j 23:09		8.85516 AU	min. Earth dist.	938 Oct 08 j 23:09		8.18772 AU
direct	932 Sep 30 j 04:24	0°≈51'06		direct	938 Dec 14 j 16:00	16° Y 57'06	
evening set	933 Jan 07 j 19:36	7° ≈ 58'46		evening set	939 Mar 26 j 10:00	24° Y 51'15	
conjunction	933 Jan 24 j 13:56	9° ≈ 59'34	_0°50'38	conjunction	939 Apr 12 j 23:49	27° Y ′06'31	-2°13'14
minimum elong	933 Jan 24 j 13:54	9°≈59'33		minimum elong	939 Apr 12 j 23:51	27° Υ 06'31	
max. Earth dist.	933 Jan 24 j 08:07		10.80591 AU	max. Earth dist.	939 Apr 13 j 01:59		10.14134 AU
morning rise	933 Feb 10 j 11:20	12°≈01'20	10.00371710	morning rise	939 Apr 30 j 17:47	29° Y 23'09	10.11151116
5	933 Mar 09 j 01:22	15° ≈			939 May 05 j 15:09	0°8	
retrograde	933 May 25 j 16:09	19° ≈ 28′21		retrograde	939 Aug 15 j 21:19	7° 8 41'39	
opposition	933 Aug 04 j 08:36	16°≈05'26	-1°28'57	opposition	939 Oct 23 j 00:24	4° 8 11'29	-2°40'08
min. Earth dist.	933 Aug 04 j 12:58	16° ≈ 04'36	8.75316 AU	min. Earth dist.	939 Oct 22 j 21:48	4° 8 12'00	8.10314 AU
	933 Aug 19 j 00:12	15° R ≈		direct	939 Dec 28 j 09:39	0° 8 45'11	
direct	933 Oct 12 j 06:40	12° ≈ 45'55		evening set	940 Apr 08 j 22:33	8° 8 47'01	
	933 Dec 03 j 02:50	15° ≈					
evening set	934 Jan 19 j 22:24	19° ≈ 59'14		conjunction	940 Apr 26 j 17:03	11° 8 04'45	
				minimum elong	940 Apr 26 j 17:06	11° 8 04'46	
conjunction	934 Feb 05 j 18:39	22°≈01'54		max. Earth dist.	940 Apr 26 j 20:40		10.06771 AU
minimum elong	934 Feb 05 j 18:36	22°≈01'53		morning rise	940 May 14 j 15:07	13° 8 23'40	
max. Earth dist.	934 Feb 05 j 13:26		10.69775 AU		940 May 27 j 11:51	15° 8	
morning rise	934 Feb 22 j 18:36	24°≈05'45		retrograde	940 Aug 29 j 13:21	21° 8 45'32	2021127
	934 Apr 22 j 17:40	0° ∀		opposition	940 Nov 05 j 04:13	18° 8 15'08	
retrograde	934 Jun 07 j 18:50	1°) 41′59		min. Earth dist.	940 Nov 05 j 00:38		8.04136 AU
opposition	934 Jul 24 j 20:39 934 Aug 17 j 04:57	30°R≈ 28°≈17'32	_1°57'28	direct	940 Dec 26 j 19:41 941 Jan 10 j 11:42	15° ₹8 14° 8 47'46	
min. Earth dist.	934 Aug 17 j 04.37 934 Aug 17 j 08:30		8.64049 AU	direct	941 Jan 25 j 04:02	14 8 47 46	
direct	934 Oct 24 j 14:09	24°≈57'06	0.01077710	evening set	941 Apr 23 j 18:56	22° 8 55'59	
3	935 Jan 12 j 18:07	0° ∺		2. cg 500	7.1.1.pr 25 J 10.50		
	J 20.07						

						0	
conjunction	941 May 11 j 17:45	25° 8 15'43		retrograde	946 Nov 22 j 01:27	16° Ω 10'41	
minimum elong	941 May 11 j 17:49	25° 8 15'44		***	946 Dec 28 j 14:05	15°R Ω	1020126
max. Earth dist.	941 May 11 j 22:19		10.01933 AU	opposition	947 Jan 27 j 17:31	12° Ω 46'04	1°20'26
morning rise	941 May 29 j 19:18	27° ႘ 36′20 0° Ⅱ		min. Earth dist.	947 Jan 27 j 11:52 947 Apr 06 j 04:52	12° Ω 47'13	8.25632 AU
ratrograda	941 Jun 18 j 03:46	0°Щ 5°Щ58'43		direct	947 Apr 06 j 04:32 947 Jul 01 j 21:33	9° Ω 17'20 15° Ω	
retrograde	941 Sep 13 j 05:17	2° П 28'34	1052152	ovening set	947 Jul 01 j 21:33 947 Jul 21 j 12:24	13 δι 17° Ω 20'43	
opposition min. Earth dist.	941 Nov 19 j 10:08	2° I I28'34 2° I I29'25	8.00660 AU	evening set	94 / Jul 21 J 12.24	1/ 862043	
iiiii. Eartii tiist.	941 Nov 19 j 06:02 941 Dec 22 j 18:56	30°R B	8.00000 AU	conjunction	947 Aug 08 j 08:48	19° Ω 35'10	1°18'39
direct	941 Dec 22 j 18:30 942 Jan 24 j 19:34	29° 8 00'17		minimum elong	947 Aug 08 j 08:45	19° Ω 35'09	1°18'38
direct	942 Jan 24 j 19.34 942 Feb 26 j 14:39	0°II		max. Earth dist.	947 Aug 08 j 08.43 947 Aug 08 j 15:13		10.31041 AU
evening set	942 New 28 j 20:44	0 Ⅱ 7°Ⅱ13'04		morning rise	947 Aug 08 j 13:13 947 Aug 26 j 00:53	21° Ω 48'17	10.31041 AU
evening set	942 May 00 J 20.44	/ Д13 04		retrograde	947 Aug 20 j 00:33 947 Dec 05 j 08:25	21° 0. 4617 29° Ω 29'34	
aamiumatian	042 May 26 : 22:01	9° Ⅱ 34'07	1017152	•	947 Dec 03 j 08:23 948 Feb 10 j 05:33	29° Ω 06'24	1°52'35
conjunction minimum elong	942 May 26 j 23:01	9° П 34'07		opposition min. Earth dist.	948 Feb 10 j 03:33	26° Ω 07'13	8.36686 AU
max. Earth dist.	942 May 26 j 23:05	9° П 34'08		direct	3	20° Ω 38'20	8.30080 AU
	942 May 27 j 04:37	9 Д 35 36 11° Д 55'40	9.99903 AU	direct	948 Apr 19 j 05:54 948 Jul 29 j 18:37	0° m)	
morning rise	942 Jun 14 j 02:57	20° Ⅱ 15'47				0° Mp 34'53	
retrograde opposition	942 Sep 27 j 19:31 942 Dec 03 j 16:43	20 Ⅲ 1347 16° Ⅲ 46'14	1010105	evening set	948 Aug 03 j 13:29	U 11J 34 33	
* *	•			agniumation	049 Aug 21 : 04:52	20 m 16110	1°42'13
min. Earth dist.	942 Dec 03 j 11:56	16°Щ47′14 13° Ц 17′19	8.00150 AU	conjunction	948 Aug 21 j 04:53	2° Mp 46'18	
direct	943 Feb 08 j 07:20			minimum elong	948 Aug 21 j 04:50		1°42'12
evening set	943 May 24 j 01:06	21° Ⅱ 32'28		max. Earth dist.	948 Aug 21 j 08:54		10.42414 AU
	042 1 11:05.22	2201152150	0047140	morning rise	948 Sep 07 j 15:40	4° Mp 56'15	
conjunction	943 Jun 11 j 05:33	23°II53'58		retrograde	948 Dec 17 j 06:56	12° m/28'31	2010101
minimum elong	943 Jun 11 j 05:36	23° II 53'59		opposition	949 Feb 22 j 11:53	9° Mp 06'46	2°18'01
max. Earth dist.	943 Jun 11 j 12:16		10.01011 AU	min. Earth dist.	949 Feb 22 j 09:28	9° Mp 07'14	8.48290 AU
morning rise	943 Jun 29 j 10:20	26° Ⅱ 15'31		direct	949 May 03 j 01:39	5° m 39'36	
	943 Jul 30 j 14:53	0°©		evening set	949 Aug 17 j 03:58	13° m) 28'42	
retrograde	943 Oct 12 j 06:17	4° © 30'49					
opposition	943 Dec 17 j 22:11	1° © 02'12		conjunction	949 Sep 03 j 14:11	15° m 37'04	2°00'04
min. Earth dist.	943 Dec 17 j 16:35		8.02657 AU	minimum elong	949 Sep 03 j 14:08	15° m 37'03	2°00'04
	943 Dec 30 j 15:22	30°RⅡ		max. Earth dist.	949 Sep 03 j 15:57		10.54022 AU
direct	944 Feb 22 j 20:36	27° Ⅱ 32'54		morning rise	949 Sep 20 j 19:45	17° m 43'59	
	944 Apr 15 j 21:53	0ං ව		retrograde	949 Dec 29 j 21:21	25° Mp 08'02	
evening set	944 Jun 07 j 05:29	5° ≤ 48'12		opposition	950 Mar 07 j 12:36	21° m) 47'33	2°35'59
				min. Earth dist.	950 Mar 07 j 11:01	21° Mp 47'52	8.59861 AU
conjunction	944 Jun 25 j 10:26	8° 5 09'11		direct	950 May 16 j 15:14	18° m 21'30	
minimum elong	944 Jun 25 j 10:27	8°909'12	0°14'59	evening set	950 Aug 30 j 07:56	26° Mp 02'49	
behind sun begin	944 Jun 25 j 08:06	8°908'26					
behind sun end	944 Jun 25 j 12:48	8°909'57		conjunction	950 Sep 16 j 13:21	28° Mp 08'19	
max. Earth dist.	944 Jun 25 j 17:55	8°911'36	10.05009 AU	minimum elong	950 Sep 16 j 13:19	28° Mp 08'19	
morning rise	944 Jul 13 j 14:16	10°929'46		max. Earth dist.	950 Sep 16 j 13:52		10.65367 AU
retrograde	944 Oct 25 j 12:11	18° © 38'06			950 Oct 01 j 20:41	0∘ ऌ	
asc. node	944 Dec 11 j 16:25	16°9542'54		morning rise	950 Oct 03 j 14:06	0° £ 12'25	
opposition	944 Dec 31 j 00:51	15°910'42	0°02'08	retrograde	951 Jan 11 j 07:20	7° ≏ 29'10	
min. Earth dist.	944 Dec 30 j 18:37	15° © 11'59	8.08013 AU	opposition	951 Mar 20 j 07:53	4° £ 09'46	
direct	945 Mar 08 j 10:15	11° 5 641'19		min. Earth dist.	951 Mar 20 j 07:02	4° ≏ 09'56	8.70934 AU
evening set	945 Jun 22 j 06:39	19° © 54'33		direct	951 May 29 j 20:49	0° ≏ 44'53	
				evening set	951 Sep 12 j 01:50	8° ≏ 18'22	
conjunction	945 Jul 10 j 10:17	22°514'04	0°18'29				
minimum elong	945 Jul 10 j 10:16	22°914'03	0°18'29	conjunction	951 Sep 29 j 03:01	10° ≏ 21'20	
max. Earth dist.	945 Jul 10 j 18:12	22°©16'37	10.11677 AU	minimum elong	951 Sep 29 j 03:00	10° £ 21'20	2°17'08
morning rise	945 Jul 28 j 11:24	24° © 32'46		max. Earth dist.	951 Sep 29 j 02:51		10.76003 AU
	945 Sep 15 j 14:27	0 \circ Ω		morning rise	951 Oct 15 j 23:36	12° ≏ 22'59	
retrograde	945 Nov 08 j 10:46	2° Ω 32'42		retrograde	952 Jan 23 j 11:57	19° ≏ 33'25	
	946 Jan 02 j 23:29	30° ₹ 5		opposition	952 Mar 31 j 22:32	16° ≏ 14'54	2°48'42
opposition	946 Jan 13 j 23:40	29° © 06'38	0°42'57	min. Earth dist.	952 Mar 31 j 23:00	16° ≏ 14'49	8.81067 AU
min. Earth dist.	946 Jan 13 j 17:13	29° © 07'58	8.15850 AU	direct	952 Jun 10 j 18:00	12° £ 51'11	
direct	946 Mar 22 j 21:41	25° © 37'28		evening set	952 Sep 23 j 10:28	20° £ 17′06	
	946 Jun 04 j 19:09	$0^{\circ}\Omega$					
evening set	946 Jul 07 j 01:36	3° Ω 46'36		conjunction	952 Oct 10 j 07:57	22° ≙ 17'54	
				minimum elong	952 Oct 10 j 07:57	22° ≏ 17'54	2°16'24
conjunction	946 Jul 25 j 02:14	6° Ω 03'50	0°50'16	max. Earth dist.	952 Oct 10 j 06:30		10.85504 AU
minimum elong	946 Jul 25 j 02:12	6° Ω 03'49		morning rise	952 Oct 27 j 01:17	24° ≙ 17'31	
max. Earth dist.	946 Jul 25 j 10:04		10.20558 AU		952 Dec 24 j 20:55	0° M	
morning rise	946 Aug 11 j 23:16	8° Ω 19'57		retrograde	953 Feb 03 j 10:45	1°M22'49	
	946 Oct 17 j 00:17	15° Ω			953 Mar 17 j 04:17	30° ₹	

959 Jun 24 j 05:57

opposition

6°る25'10 0°23'57

retrograde

965 Jun 28 j 14:33

21°**)** 56'44

opposition	965 Sep 06 j 09:54	18° ¥ 30′29	-2°32'03	conjunction	971 May 20 j 20:34	3° Ⅱ 44'14	-1°29'10
min. Earth dist.	965 Sep 06 j 10:34	18° ¥ 30′21	8.46764 AU	minimum elong	971 May 20 j 20:37 971 May 20 j 20:37	3° ∏ 44'16	
direct	965 Nov 12 j 22:54	15° X 08'57	8.40704 AU	max. Earth dist.	971 May 20 j 20:37 971 May 21 j 02:06		10.02118 AU
evening set	966 Feb 21 j 08:19	22°\(\frac{13}{41'38}\)		morning rise	971 Jun 07 j 23:21	6° I I05'11	10.02118 AU
evening set	7001C0 21 J 00.17	22 /(41 30		retrograde	971 Sep 21 j 23:05	14° I I25'43	
conjunction	966 Mar 10 j 11:41	24° ¥ 50'11	2000140	opposition	971 Sep 21 j 23:03 971 Nov 28 j 00:05	10° I I56'09	102/120
·	966 Mar 10 j 11:39	24° X 50'10		min. Earth dist.	971 Nov 28 j 00:03 971 Nov 27 j 19:22		8.01493 AU
minimum elong	3		2 08 48 10.41014 AU		•	7° Ⅱ 27'46	8.01493 AU
max. Earth dist.	966 Mar 10 j 10:38		10.41014 AU	direct	972 Feb 02 j 12:22		
morning rise	966 Mar 27 j 19:46	27° ¥ 00′13		evening set	972 May 16 j 22:33	15° Ⅱ 41′07	
	966 Apr 22 j 08:47	0° Υ			050 1 04:00 15	100 T 00110	1001100
retrograde	966 Jul 12 j 12:26	5° Υ 00'41		conjunction	972 Jun 04 j 02:17	18° Ⅱ 02'18	
opposition	966 Sep 19 j 21:16	1° Y 33'13		minimum elong	972 Jun 04 j 02:20	18° Ⅱ 02'19	
min. Earth dist.	966 Sep 19 j 21:11	1° Ƴ 33'14	8.35606 AU	max. Earth dist.	972 Jun 04 j 08:41		10.01487 AU
	966 Oct 10 j 06:16	30° ₹		morning rise	972 Jun 22 j 06:38	20° Ⅱ 23'43	
direct	966 Nov 25 j 23:54	28° ¥ 10′34		retrograde	972 Oct 05 j 11:46	28° Ⅱ 40′30	
	967 Jan 10 j 09:06	$\mathbf{\gamma}_0$		opposition	972 Dec 11 j 05:29	25° Ⅱ 11'31	
evening set	967 Mar 06 j 20:59	5° Y 51'42		min. Earth dist.	972 Dec 11 j 00:27	25° Ⅱ 12'34	8.02301 AU
				direct	973 Feb 15 j 23:53	21° ∏ 42'25	
conjunction	967 Mar 24 j 04:06	8° Ƴ 02'50	-2°15'46	evening set	973 Jun 01 j 02:34	29° Ⅱ 56'58	
minimum elong	967 Mar 24 j 04:06	8° Ƴ 02'50	2°15'46		973 Jun 01 j 12:05	0 \circ \odot	
max. Earth dist.	967 Mar 24 j 03:33	8° Ƴ 02'40	10.30123 AU				
morning rise	967 Apr 10 j 16:06	10° Ƴ 15'30		conjunction	973 Jun 19 j 07:26	2°518'05	-0°29'13
retrograde	967 Jul 26 j 17:03	18° Ƴ 24'07		minimum elong	973 Jun 19 j 07:28	2°518'06	0°29'13
opposition	967 Oct 03 j 14:11	14° Ƴ 55'38	-2°49'38	max. Earth dist.	973 Jun 19 j 14:00	2°520'13	10.03799 AU
min. Earth dist.	967 Oct 03 j 13:51	14° Ƴ 55'42	8.25158 AU	morning rise	973 Jul 07 j 11:40	4° © 38'59	
direct	967 Dec 09 j 08:03	11° Y 31'44		retrograde	973 Oct 19 j 19:38	12°949'45	
evening set	968 Mar 19 j 19:45	19° Y 21'21		opposition	973 Dec 25 j 08:48	9° 5 21'41	-0°15'49
e vennig see	700 Mar 17 j 17.18	17 12121		min. Earth dist.	973 Dec 25 j 03:54		8.06004 AU
conjunction	968 Apr 06 j 07:17	21° Y 35'09	-2°15'28	direct	974 Mar 02 j 13:23	5°952'08	0.00004710
minimum elong	968 Apr 06 j 07:18	21° Y 35'10		asc. node	974 May 18 j 09:00	10°938'54	
max. Earth dist.	968 Apr 06 j 07:46		10.20213 AU	evening set	974 Jun 16 j 04:33	10 \$3834 14°\$05'43	
		23° Y 50'26	10.20213 AU	evening set	9/4 Juli 10 J 04.33	14 903 43	
morning rise	968 Apr 23 j 23:28	0° 8			074 1-1 04:00.40	169625149	0°04'12
. 1	968 Jun 20 j 08:02	_		conjunction	974 Jul 04 j 08:48	16°525'48	
retrograde	968 Aug 09 j 03:20	2° 8 05'39		minimum elong	974 Jul 04 j 08:47	16°525'47	0°04'11
	968 Sep 28 j 19:35	30° ₹ Υ		behind sun begin	974 Jul 04 j 01:33	16°523'28	
opposition	968 Oct 16 j 11:56	28° Y 36′24		behind sun end	974 Jul 04 j 16:02	16°528'06	
min. Earth dist.	968 Oct 16 j 10:58	28° Y 36'36	8.15949 AU	max. Earth dist.	974 Jul 04 j 15:03		10.08887 AU
direct	968 Dec 21 j 23:21	25° Y 11'16		morning rise	974 Jul 22 j 11:14	18° © 45'16	
	969 Mar 08 j 00:23	$0^{\circ}S$		retrograde	974 Nov 02 j 19:39	26°5948'19	
evening set	969 Apr 03 j 04:03	3° 8 08'56		opposition	975 Jan 08 j 08:42	23° 5 21'24	0°25'33
				min. Earth dist.	975 Jan 08 j 04:03	23° © 22'21	8.12347 AU
conjunction	969 Apr 20 j 20:22	5° 8 25'20	-2°07'26	direct	975 Mar 17 j 02:03	19° © 51'44	
minimum elong	969 Apr 20 j 20:25	5° 8 25'21	2°07'26	evening set	975 Jul 01 j 01:33	28° © 02'15	
max. Earth dist.	969 Apr 20 j 22:23	5° 8 25'59	10.11855 AU		975 Jul 16 j 11:44	$0^{\circ}\Omega$	
morning rise	969 May 08 j 16:41	7° 8 43'01					
	969 Jul 20 j 06:55	15° 8		conjunction	975 Jul 19 j 03:33	0° £ 20′28	0°36'47
retrograde	969 Aug 23 j 17:00	16° 8 02'43		minimum elong	975 Jul 19 j 03:31	0° £ 20′27	0°36'47
	969 Sep 27 j 07:21	15° ₹႘		max. Earth dist.	975 Jul 19 j 09:10	0° £ 22′16	10.16395 AU
opposition	969 Oct 30 j 13:46	12° 8 33'02	-2°30'10	morning rise	975 Aug 06 j 02:41	2° Ω 37'43	
min. Earth dist.	969 Oct 30 j 11:36	12° 8 33'28	8.08588 AU	retrograde	975 Nov 16 j 12:09	10° Ω 32'04	
direct	970 Jan 04 j 22:52	9° 8 06'41		opposition	976 Jan 22 j 04:02	7° Ω 06′25	1°04'40
	970 Mar 31 j 03:51	15° 8		min. Earth dist.	976 Jan 21 j 23:27	7° Ω 07'21	8.20890 AU
evening set	970 Apr 17 j 20:39	17° 8 11'20		direct	976 Mar 30 j 11:03	3° Ω 36'58	
8	r . j			evening set	976 Jul 14 j 15:30	11° Ω 42'41	
conjunction	970 May 05 j 17:35	19° 8 29'59	-1°51'45		1.11.50	0012 11	
minimum elong	970 May 05 j 17:39	19° 8 30'00		conjunction	976 Aug 01 j 13:51	13° Ω 58′23	1°06'47
max. Earth dist.	970 May 05 j 21:28		10.05661 AU	minimum elong	976 Aug 01 j 13:48	13° Ω 58'22	1°06'46
morning rise	970 May 03 j 21:28	21° 8 49'38	10.02001 AU	max. Earth dist.	976 Aug 01 j 18:55		10.25823 AU
morning 1150	970 May 23 j 17.33 970 Aug 24 j 02:58	0° Ⅱ		max. Larui uist.	976 Aug 01 j 18:33 976 Aug 09 j 16:09	15° Ω	10.23023 AU
retrograde	970 Aug 24 j 02.38 970 Sep 07 j 08:00	0° Д 11'10		morning rise	976 Aug 19 j 08:23	15 δι 16° Ω 12'51	
renograde		30° R В		•			
ammagiti	970 Sep 21 j 14:23		2906119	retrograde	976 Nov 28 j 21:50	23° Ω 58′02	1020117
opposition	970 Nov 13 j 18:19	26° 8 41'22		opposition	977 Feb 03 j 18:00	20° Ω 33'44	1°39'17
min. Earth dist.	970 Nov 13 j 14:40		8.03640 AU	min. Earth dist.	977 Feb 03 j 13:27	20° Ω 34'39	8.31091 AU
direct	971 Jan 19 j 03:37	23° 8 13'56		direct	977 Apr 13 j 14:25	17° Ω 04'50	
	971 Apr 21 j 16:29	0°II		evening set	977 Jul 28 j 20:22	25° Ω 04'20	
evening set	971 May 02 j 19:38	1° Ⅱ 23'56			077 1 15:1:00	0.70 0 1	102222
				conjunction	977 Aug 15 j 14:08	27° Ω 17'08	1~32'32

minimum elong	977 Aug 15 j 14:05	27° Ω 17'07	1°32'32	morning rise	983 Nov 14 j 16:14	12°M35'50	
max. Earth dist.	977 Aug 15 j 18:55	27° Ω 18'38	10.36603 AU		983 Dec 06 j 07:00	15° M	
morning rise	977 Sep 02 j 03:22	29° £ 28'31		retrograde	984 Feb 22 j 04:28	19°M35'20	
	977 Sep 06 j 10:29	0° mp		opposition	984 May 01 j 18:54	16°ML18'15	2°23'36
retrograde	977 Dec 12 j 00:20	7° m) 04'36		min. Earth dist.	984 May 01 j 21:38	16° M ₊17'45	9.01278 AU
opposition	978 Feb 17 j 02:26	3° mp 41'42	2°07'46		984 May 19 j 20:16	15°RM	
min. Earth dist.	978 Feb 16 j 22:25	3° M) 42'30	8.42360 AU	direct	984 Jul 12 j 00:11	12°M57'32	
		-	6.42300 AU	direct	3	12 11637 32 15°M	
direct	978 Apr 27 j 11:32	0° mp 13'38			984 Sep 01 j 11:01		
evening set	978 Aug 11 j 14:54	8° Mp 05'55		evening set	984 Oct 22 j 23:00	20°M07'00	
						w	
conjunction	978 Aug 29 j 03:39	10° m 15'39		conjunction	984 Nov 08 j 14:35		1°49'44
minimum elong	978 Aug 29 j 03:37	10° m) 15'38	1°52'57	minimum elong	984 Nov 08 j 14:37	22°M04'08	1°49'43
max. Earth dist.	978 Aug 29 j 07:44	10° m) 16'55	10.48142 AU	max. Earth dist.	984 Nov 08 j 10:41	22°M02'58	11.03636 AU
morning rise	978 Sep 15 j 11:28	12° m 23'55		morning rise	984 Nov 25 j 03:55	24°M00'37	
retrograde	978 Dec 24 j 18:19	19° m 51'24			985 Jan 29 j 10:36	0° ∡ ¹	
opposition	979 Mar 02 j 05:10	16° m 29'52	2°29'02	retrograde	985 Mar 04 j 22:12	0° ∡¹ 58'27	
min. Earth dist.	979 Mar 02 j 02:26	16° m 30'24	8.54093 AU	•	985 Apr 09 j 04:50	30°RM₊	
direct	979 May 11 j 02:42	13° m 02'50		opposition	985 May 13 j 22:01	27°M41'33	2°03'22
evening set	979 Aug 24 j 23:07	20° Mp 47'23		min. Earth dist.	985 May 14 j 01:54	27°M40'50	9.05686 AU
evening set	717 Aug 24 j 25.01	20 ily + / 23		direct		24°M21'47	7.03000 AC
	070 0 11:06 47	220m. 5 4100	2007/21	direct	985 Jul 24 j 04:01		
conjunction	979 Sep 11 j 06:47	22° m/ 54'08	2°07'21		985 Oct 21 j 12:46	0° ∡ ¹	
minimum elong	979 Sep 11 j 06:45	22° Mp 54'08	2°07'21	evening set	985 Nov 03 j 09:10	1° ≯ 26'47	
max. Earth dist.	979 Sep 11 j 09:17	•	10.59847 AU				
morning rise	979 Sep 28 j 09:34	24° m 59'26		conjunction	985 Nov 19 j 23:45	3° ₹ 23'18	1°31'16
	979 Nov 14 j 21:38	0∘ ত		minimum elong	985 Nov 19 j 23:48	3° ≮ ¹23'18	1°31'16
retrograde	980 Jan 06 j 05:57	2° ₽ 19'03		max. Earth dist.	985 Nov 19 j 18:48	3° ∡ ¹21'50	11.06974 AU
	980 Feb 29 j 16:56	30°R, Mp		morning rise	985 Dec 06 j 12:55	5° ∡ 19'24	
opposition	980 Mar 14 j 02:14	28° m 58'47	2°42'37	retrograde	986 Mar 16 j 15:31	12° √ 17'02	
min. Earth dist.	980 Mar 14 j 01:08	28° m 59'00	8.65707 AU	opposition	986 May 25 j 23:47	8° ₹ 759'59	1°38'32
direct	980 May 23 j 10:17	25° m/32'59		min. Earth dist.	986 May 26 j 03:55	8° × 759'13	9.07857 AU
direct	980 Aug 08 j 17:05	0° ರ		direct	986 Aug 05 j 03:11	5°×741'00	7.07037 TEC
evening set	980 Sep 05 j 20:59	ალ09'38		evening set	986 Nov 14 j 16:44	12° × ⁷ 42'47	
evening set	960 Sep 05 J 20.59	3 = 0938		evening set	900 NOV 14 J 10.44	12 8 42 47	
:	000 0 22 : 22.55	59 0 12120	2015120		006 D 01:07:02	14° ∡ ³39'06	1900/20
conjunction	980 Sep 22 j 23:55	5° £ 13'39	2°15'29	conjunction	986 Dec 01 j 07:02		1°09'20
minimum elong	980 Sep 22 j 23:54	5° ≙ 13'39	2°15'29	minimum elong	986 Dec 01 j 07:05	14° ∡ ³39′07	1°09'20
max. Earth dist.	980 Sep 23 j 00:16		10.71167 AU	max. Earth dist.	986 Dec 01 j 02:09	14° ∡ ³37'40	11.08008 AU
morning rise	980 Oct 09 j 22:22	7° ≏ 16'19		morning rise	986 Dec 17 j 20:30	16° ≯ 35'16	
retrograde	981 Jan 17 j 10:50	14° ≏ 29'04		retrograde	987 Mar 28 j 11:30	23° ҂ ³34'13	
opposition	981 Mar 26 j 18:23	11° ≏ 09'55	2°48'28	opposition	987 Jun 07 j 01:29	20° ∡ 16'45	1°09'58
min. Earth dist.	981 Mar 26 j 18:08	11° ≏ 09'58	8.76667 AU	min. Earth dist.	987 Jun 07 j 05:51	20° ∡ 15'57	9.07661 AU
direct	981 Jun 05 j 11:08	7° £ 45'26		direct	987 Aug 17 j 00:27	16° ₹ '58'18	
evening set	981 Sep 18 j 08:57	15° ≏ 14'20		evening set	987 Nov 25 j 23:31	23° ₹ 58'19	
C	1 3			C	J		
conjunction	981 Oct 05 j 07:54	17° £ 15'58	2°17'25	conjunction	987 Dec 12 j 13:51	25° ₹ 54'51	0°44'43
minimum elong	981 Oct 05 j 07:54	17° ≏ 15'58		minimum elong	987 Dec 12 j 13:53	25° ∡ 754'51	0°44'44
max. Earth dist.	981 Oct 05 j 07:09		10.81603 AU	max. Earth dist.	987 Dec 12 j 08:09		11.06632 AU
morning rise	981 Oct 22 j 02:46	17 — 13 44 19° — 16′24	10.01003 AC	morning rise	987 Dec 29 j 04:09	27° 🖈 53 10	11.00032 AC
•	982 Jan 29 j 11:31			morning risc	-	0°る	
retrograde		26° £ 23'29	2046152	. 1	988 Jan 17 j 11:10		
opposition	982 Apr 08 j 06:01	23° £ 05'14		retrograde	988 Apr 08 j 10:18	4°る53'18	
min. Earth dist.	982 Apr 08 j 06:13	23° ≙ 05'12	8.86498 AU	opposition	988 Jun 18 j 04:14	1° る 35'11	
direct	982 Jun 18 j 07:01	19° ≏ 42'06		min. Earth dist.	988 Jun 18 j 09:34		9.05044 AU
evening set	982 Sep 30 j 12:22	27° ≏ 03'42			988 Jul 10 j 16:00	30°₹ ҂ 7	
				direct	988 Aug 27 j 19:04	28° ҂ 17′02	
conjunction	982 Oct 17 j 08:13	29° ≏ 03'24	2°13'25		988 Oct 13 j 06:43	0°ರ	
minimum elong	982 Oct 17 j 08:14	29° ♀ 03'24	2°13'26	evening set	988 Dec 06 j 07:21	5° ප 16'50	
max. Earth dist.	982 Oct 17 j 07:02	29° ഫ 03'02	10.90717 AU	-	-		
	982 Oct 25 j 06:00	0° M ₊		conjunction	988 Dec 22 j 22:03	7° る 13'58	0°18'16
morning rise	982 Nov 03 j 00:17	1°ML02'01		minimum elong	988 Dec 22 j 22:04	7° る 13'58	
retrograde	983 Feb 10 j 10:08	8°ML04'39		max. Earth dist.	988 Dec 22 j 14:52		11.02853 AU
•	-		2028121		-	9° る 11'26	11.02033 AU
opposition	983 Apr 20 j 13:46	4°M47'07		morning rise	989 Jan 08 j 13:49		
min. Earth dist.	983 Apr 20 j 14:54	4°M46'54	8.94805 AU	retrograde	989 Apr 20 j 11:01	16°る17'49	0005:50
direct	983 Jun 30 j 18:15	1°M25'15		opposition	989 Jun 30 j 08:56	12°る58'48	0°05'29
evening set	983 Oct 12 j 08:37	8°M40'18		min. Earth dist.	989 Jun 30 j 15:13	12° ろ 57'38	9.00090 AU
				desc. node	989 Aug 30 j 17:26	9° ⋜ 44'36	
conjunction	983 Oct 29 j 02:02	10°M38'30	2°04'00	direct	989 Sep 08 j 14:55	9° る 40'39	
minimum elong	983 Oct 29 j 02:04	10°MJ38'31	2°04'00	evening set	989 Dec 17 j 17:44	16° ප් 41'53	
max. Earth dist.	983 Oct 28 j 23:54	10°M37'52	10.98151 AU				
	•						

conjunction	990 Jan 03 j 09:21	18° る 39'59	-0°09'15		996 Feb 27 j 20:14	0° Y	
minimum elong	990 Jan 03 j 09:21	18° る 39'59	0°09'15	evening set	996 Feb 29 j 03:32	0° Υ ′09'42	
behind sun begin	990 Jan 03 j 03:25	18° る 38'14			-		
behind sun end	990 Jan 03 j 15:16	18° る 41'43		conjunction	996 Mar 17 j 09:05	2° Y 19'51	-2°13'31
max. Earth dist.	990 Jan 03 j 01:55		10.96824 AU	minimum elong	996 Mar 17 j 09:04	2° Y 19'51	
morning rise	990 Jan 20 j 02:52	20° る 38'40		max. Earth dist.	996 Mar 17 j 08:21		10.33138 AU
retrograde	990 May 02 j 18:29	27° ろ 51'05		morning rise	996 Apr 03 j 19:15	4° Υ 31'32	
opposition	990 Jul 12 j 16:31	24°₹30'55		retrograde	996 Jul 19 j 16:19	12° Υ 37'21	20.40150
min. Earth dist.	990 Jul 12 j 22:32	24°₹29'47	8.93018 AU	opposition	996 Sep 26 j 19:41	9° Υ 08'38	
direct	990 Sep 20 j 13:20	21°る12'32 28°る16'41		min. Earth dist.	996 Sep 26 j 19:29	9° Υ 08'40 5° Υ 44'40	8.27802 AU
evening set	990 Dec 29 j 08:27 991 Jan 12 j 19:44	28°€1041		direct evening set	996 Dec 02 j 18:07 997 Mar 13 j 22:03	13° Y 31'12	
	991 Jan 12 J 19.44	0 ~		evening set	997 Widi 13 J 22.03	13 31 12	
conjunction	991 Jan 15 j 01:24	0° ≈ 16′06	-0°36'38	conjunction	997 Mar 31 j 07:46	15° Ƴ 44'04	-2°16'35
minimum elong	991 Jan 15 j 01:22	0° ≈ 16′06	0°36'39	minimum elong	997 Mar 31 j 07:47	15° Y '44'04	2°16'34
max. Earth dist.	991 Jan 14 j 18:54	0° ≈ 14'10	10.88804 AU	max. Earth dist.	997 Mar 31 j 08:36	15° Y '44'20	10.22493 AU
morning rise	991 Jan 31 j 20:45	2° ≈ 16'19		morning rise	997 Apr 17 j 21:59	17° Y ′58'25	
retrograde	991 May 15 j 08:09	9° ≈ 36′06		retrograde	997 Aug 03 j 01:20	26° Ƴ 11'44	
opposition	991 Jul 25 j 03:53	6° ≈ 14'34	-1°01'33	opposition	997 Oct 10 j 15:31	22° Y '42'06	-2°48'17
min. Earth dist.	991 Jul 25 j 08:55	6° ≈ 13'37	8.84136 AU	min. Earth dist.	997 Oct 10 j 13:55		8.17862 AU
direct	991 Oct 02 j 12:42	2° ≈ 55'43		direct	997 Dec 16 j 05:30	19° Ƴ 16'53	
evening set	992 Jan 10 j 05:09	10° ≈ 04'16		evening set	998 Mar 28 j 02:31	27° Ƴ 11'49	
conjunction	992 Jan 26 j 23:37	12° ≈ 05'18	-1°02'58	conjunction	998 Apr 14 j 16:44	29° Ƴ 27'20	-2°12'02
minimum elong	992 Jan 26 j 23:35	12°≈05'17		minimum elong	998 Apr 14 j 16:46	29° Y 27'20	
max. Earth dist.	992 Jan 26 j 17:48		10.79145 AU	max. Earth dist.	998 Apr 14 j 18:45		10.13378 AU
morning rise	992 Feb 12 j 21:13	14°≈07'20	10.77113110	max. Dartii dist.	998 Apr 18 j 21:53	0°8	10.13370110
morning not	992 Feb 20 j 09:00	15° ≈		morning rise	998 May 02 j 11:10	1° 8 44'13	
retrograde	992 May 27 j 04:43	21° ≈ 35'35		retrograde	998 Aug 17 j 14:31	10° 8 03'01	
opposition	992 Aug 05 j 19:59	18° ≈ 12'33	-1°32'52	opposition	998 Oct 24 j 16:04	6° 8 32'49	-2°38'02
min. Earth dist.	992 Aug 06 j 00:11	18° ≈ 11'45	8.73828 AU	min. Earth dist.	998 Oct 24 j 13:32	6° 8 33'20	8.09717 AU
	992 Oct 02 j 00:22	15°R≈		direct	998 Dec 30 j 01:30	3° 8 06'24	
direct	992 Oct 13 j 16:23	14° ≈ 52'59		evening set	999 Apr 11 j 15:41	11° 8 08'48	
	992 Oct 25 j 06:28	15° ≈					
evening set	993 Jan 21 j 09:03	22° ≈ 07'18		conjunction	999 Apr 29 j 10:32	13° 8 26'43	
evening set	-	22° ≈ 07'18		conjunction minimum elong	999 Apr 29 j 10:35	13° 8 26'44	1°59'44
evening set	993 Jan 21 j 09:03 993 Feb 07 j 05:24	22°≈07'18 24°≈10'14	-1°27'03	-	999 Apr 29 j 10:35 999 Apr 29 j 13:50	13° 8 26'44 13° 8 27'47	
conjunction minimum elong	993 Jan 21 j 09:03 993 Feb 07 j 05:24 993 Feb 07 j 05:22	24°≈10'14 24°≈10'13	1°27'03	minimum elong max. Earth dist.	999 Apr 29 j 10:35 999 Apr 29 j 13:50 999 May 11 j 10:12	13° 8 26'44 13° 8 27'47 15° 8	1°59'44
conjunction minimum elong max. Earth dist.	993 Jan 21 j 09:03 993 Feb 07 j 05:24 993 Feb 07 j 05:22 993 Feb 06 j 23:38	24°≈10'14 24°≈10'13 24°≈08'28		minimum elong max. Earth dist.	999 Apr 29 j 10:35 999 Apr 29 j 13:50 999 May 11 j 10:12 999 May 17 j 09:02	13° 8 26'44 13° 8 27'47 15° 8 15° 8 45'47	1°59'44
conjunction minimum elong	993 Jan 21 j 09:03 993 Feb 07 j 05:24 993 Feb 07 j 05:22 993 Feb 06 j 23:38 993 Feb 24 j 05:43	24°≈10'14 24°≈10'13 24°≈08'28 26°≈14'24	1°27'03	minimum elong max. Earth dist. morning rise retrograde	999 Apr 29 j 10:35 999 Apr 29 j 13:50 999 May 11 j 10:12 999 May 17 j 09:02 999 Sep 01 j 05:13	13°826'44 13°827'47 15°8 15°845'47 24°807'35	1°59'44 10.06350 AU
conjunction minimum elong max. Earth dist. morning rise	993 Jan 21 j 09:03 993 Feb 07 j 05:24 993 Feb 07 j 05:22 993 Feb 06 j 23:38 993 Feb 24 j 05:43 993 Mar 30 j 02:04	24°≈10'14 24°≈10'13 24°≈08'28 26°≈14'24 0°¥	1°27'03	minimum elong max. Earth dist. morning rise retrograde opposition	999 Apr 29 j 10:35 999 Apr 29 j 13:50 999 May 11 j 10:12 999 May 17 j 09:02 999 Sep 01 j 05:13 999 Nov 07 j 20:01	13° 8 26'44 13° 8 27'47 15° 8 15° 8 45'47 24° 8 07'35 20° 8 37'12	1°59'44 10.06350 AU -2°18'09
conjunction minimum elong max. Earth dist. morning rise retrograde	993 Jan 21 j 09:03 993 Feb 07 j 05:24 993 Feb 07 j 05:22 993 Feb 06 j 23:38 993 Feb 24 j 05:43 993 Mar 30 j 02:04 993 Jun 09 j 08:44	24°≈10'14 24°≈10'13 24°≈08'28 26°≈14'24 0° H 3° H 51'55	1°27'03 10.68259 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	999 Apr 29 j 10:35 999 Apr 29 j 13:50 999 May 11 j 10:12 999 May 17 j 09:02 999 Sep 01 j 05:13 999 Nov 07 j 20:01 999 Nov 07 j 16:42	13°826'44 13°827'47 15°8 15°845'47 24°807'35 20°837'12 20°837'53	1°59'44 10.06350 AU
conjunction minimum elong max. Earth dist. morning rise retrograde opposition	993 Jan 21 j 09:03 993 Feb 07 j 05:24 993 Feb 07 j 05:22 993 Feb 06 j 23:38 993 Feb 24 j 05:43 993 Mar 30 j 02:04 993 Jun 09 j 08:44 993 Aug 18 j 17:21	24°≈10'14 24°≈10'13 24°≈08'28 26°≈14'24 0° H 3° H 51'55 0° H 27'21	1°27'03 10.68259 AU -2°00'48	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	999 Apr 29 j 10:35 999 Apr 29 j 13:50 999 May 11 j 10:12 999 May 17 j 09:02 999 Sep 01 j 05:13 999 Nov 07 j 20:01 999 Nov 07 j 16:42 1000 Jan 13 j 04:15	13°826'44 13°827'47 15°8 15°845'47 24°807'35 20°837'12 20°837'53 17°809'43	1°59'44 10.06350 AU -2°18'09
conjunction minimum elong max. Earth dist. morning rise retrograde	993 Jan 21 j 09:03 993 Feb 07 j 05:24 993 Feb 07 j 05:22 993 Feb 06 j 23:38 993 Feb 24 j 05:43 993 Mar 30 j 02:04 993 Jun 09 j 08:44 993 Aug 18 j 17:21 993 Aug 18 j 21:17	24°≈10'14 24°≈10'13 24°≈08'28 26°≈14'24 0° ₩ 3° ₩ 51'55 0° ₩ 27'21 0° ₩ 26'36	1°27'03 10.68259 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	999 Apr 29 j 10:35 999 Apr 29 j 13:50 999 May 11 j 10:12 999 May 17 j 09:02 999 Sep 01 j 05:13 999 Nov 07 j 20:01 999 Nov 07 j 16:42	13°826'44 13°827'47 15°8 15°845'47 24°807'35 20°837'12 20°837'53	1°59'44 10.06350 AU -2°18'09
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	1002 I 12:22.52	260TT14125	0042141		1007 9 10 : 02-01	70 m 05106	
minimum elong	1002 Jun 12 j 22:52	26° Ⅱ 14'35		morning rise	1007 Sep 10 j 03:01	7° Mp 05'06	
max. Earth dist.	1002 Jun 13 j 06:13		10.01605 AU	retrograde	1007 Dec 19 j 15:25	14° Mp 36'17	2020122
morning rise	1002 Jul 01 j 03:28	28° Ⅲ 35'59		opposition	1008 Feb 24 j 22:41	11° Mp 14'38	2°20'33
	1002 Jul 12 j 07:14	0.2		min. Earth dist.	1008 Feb 24 j 19:47	11° Mp 15'13	8.49787 AU
retrograde	1002 Oct 13 j 21:11	6° © 50'18		direct	1008 May 04 j 15:15	7° m 47'36	
opposition	1002 Dec 19 j 12:42	3° 5 21'44		evening set	1008 Aug 18 j 15:04	15° m 35'37	
min. Earth dist.	1002 Dec 19 j 06:30		8.03384 AU				
	1003 Feb 12 j 19:58	30°RⅡ		conjunction	1008 Sep 05 j 00:52	17° Mp 43'37	2°01'45
direct	1003 Feb 24 j 12:43	29° ∏ 52'24		minimum elong	1008 Sep 05 j 00:50	17° Mp 43'36	2°01'45
	1003 Mar 08 j 05:00	0 \circ ∞		max. Earth dist.	1008 Sep 05 j 02:51	17° m 44'14	10.55528 AU
evening set	1003 Jun 09 j 21:54	8° 5 07'10		morning rise	1008 Sep 22 j 05:55	19° m 50'10	
				retrograde	1008 Dec 31 j 06:55	27° Mp 13'12	
conjunction	1003 Jun 28 j 02:50	10° © 27'57	-0°10'43	opposition	1009 Mar 08 j 22:32	23° m 52'49	2°37'30
minimum elong	1003 Jun 28 j 02:50	10° © 27'57	0°10'44	min. Earth dist.	1009 Mar 08 j 20:35	23° m 53'12	8.61345 AU
behind sun begin	1003 Jun 27 j 21:16	10°526'10		direct	1009 May 18 j 02:15	20° m/26'54	
behind sun end	1003 Jun 28 j 08:24	10°529'45		evening set	1009 Aug 31 j 17:48	28° Mp 07'08	
max. Earth dist.	1003 Jun 28 j 11:03	10°930'37	10.05865 AU	Č	1009 Sep 16 j 06:30	0∘ <u>⊽</u>	
morning rise	1003 Jul 16 j 06:19	12° © 48'18			1 3		
asc. node	1003 Oct 27 j 07:09	20°955'31		conjunction	1009 Sep 17 j 22:52	0° £ 12′20	2°12'36
retrograde	1003 Oct 28 j 01:44	20°555'33		minimum elong	1009 Sep 17 j 22:50	0° £ 12'19	2°12'37
opposition	1004 Jan 02 j 14:40	17° © 28'13	0°07'23	max. Earth dist.	1009 Sep 17 j 22:50		10.66796 AU
min. Earth dist.	1004 Jan 02 j 08:09	17° © 29'33	8.08977 AU	morning rise	1009 Oct 04 j 23:04	2° ⊆ 16'06	10.00770710
	1004 Jan 02 J 08:09 1004 Mar 10 j 01:35	17 3 29 33	6.069// AU	-	1010 Jan 12 j 16:12	2 = 1000 9° £ 31'58	
direct	5			retrograde	3		2946142
evening set	1004 Jun 23 j 22:15	22° © 11'23		opposition	1010 Mar 21 j 17:15	6° £ 12'41	2°46'42
	1004 7 1 10:01 20		0000106	min. Earth dist.	1010 Mar 21 j 16:48	6° £ 12'46	8.72284 AU
conjunction	1004 Jul 12 j 01:38	24°930'37	0°22'36	direct	1010 May 31 j 05:46	2° Ω 47'57	
minimum elong	1004 Jul 12 j 01:37	24° © 30'37	0°22'35	evening set	1010 Sep 13 j 10:31	10° ≏ 20'28	
max. Earth dist.	1004 Jul 12 j 09:54		10.12740 AU			_	
morning rise	1004 Jul 30 j 02:19	26°9549'01		conjunction	1010 Sep 30 j 11:19	12° £ 23′10	2°17'11
	1004 Aug 25 j 16:46	0 $^{\circ}\Omega$		minimum elong	1010 Sep 30 j 11:19	12° ≏ 23'10	2°17'12
retrograde	1004 Nov 09 j 23:32	4° Ω 47'49		max. Earth dist.	1010 Sep 30 j 10:48	12° ≙ 23'00	10.77247 AU
opposition	1005 Jan 15 j 12:46	1° Ω 21'53	0°47'51	morning rise	1010 Oct 17 j 07:34	14° ≏ 24'34	
min. Earth dist.	1005 Jan 15 j 06:41	1° Ω 23′08	8.16995 AU	retrograde	1011 Jan 24 j 19:15	21° ≏ 34'20	
	1005 Feb 01 j 17:38	30° ₹ ಾ		opposition	1011 Apr 03 j 07:21	18° ≏ 15'57	2°48'17
direct	1005 Mar 24 j 11:38	27° © 52'42		min. Earth dist.	1011 Apr 03 j 08:44	18° ≙ 15'41	8.82198 AU
	1005 May 13 j 11:26	$\mathfrak{O}^{\circ}\mathfrak{O}$		direct	1011 Jun 13 j 03:44	14° ≙ 52'21	
evening set	1005 Jul 08 j 16:21	6° Ω 01'05		evening set	1011 Sep 25 j 18:20	22° ≙ 17'30	
	-			-			
conjunction	1005 Jul 26 j 16:31	8° Ω 18'01	0°54'00	conjunction	1011 Oct 12 j 15:27	24° £ 18′06	2°15'42
minimum elong	1005 Jul 26 j 16:29	8° Ω 18′00	0°54'00	minimum elong	1011 Oct 12 j 15:28	24° ≏ 18'06	2°15'42
max. Earth dist.	1005 Jul 27 j 00:00		10.21770 AU	max. Earth dist.	1011 Oct 12 j 12:49		10.86497 AU
morning rise	1005 Aug 13 j 13:03	10° Ω 33'47		morning rise	1011 Oct 29 j 08:42	26° ≏ 17'34	
morning noe	1005 Sep 21 j 11:25	15° Ω			1011 Dec 02 j 15:27	0°M	
retrograde	1005 Nov 23 j 13:43	18° Ω 23'23		retrograde	1012 Feb 05 j 18:00	3°M22'23	
opposition	1006 Jan 29 j 05:53	14°Ω58'55	1°24'43	opposition	1012 Apr 14 j 17:19	0°M04'38	2°42'41
min. Earth dist.	1006 Jan 29 j 00:54	14° Ω 59'56	8.26913 AU	min. Earth dist.	1012 Apr 14 j 20:05	0°ML04'07	8.90719 AU
iiiii. Eartii dist.	1006 Jan 29 j 00:32	14 0. 23930 15°RΩ	8.20913 AU	iiiii. Eartii tist.	1012 Apr 14 j 20:03	ე იცე4 ე / 30° ც ტ	6.90/19 AU
direct	1006 Jan 29 j 00.32 1006 Apr 07 j 17:57	13 ₹82 11° Ω 30'14		direct	1012 Apr 13 j 17:39 1012 Jun 24 j 19:26	30 k== 26° £ 42'09	
direct				direct	1012 Juli 24 j 19.20 1012 Aug 30 j 00:47	20 = 42 09 0° M	
. ,	1006 Jun 12 j 16:55	15° Ω		. ,	• •		
evening set	1006 Jul 23 j 02:04	19° Ω 32'48		evening set	1012 Oct 06 j 18:06	4°M00'30	
. ,.	1006 4 00:21.51	210 0 46154	1001140		1012 0 + 22 : 12 26	50 m 5010 (2000122
conjunction	1006 Aug 09 j 21:51	21° Ω 46'54		conjunction	1012 Oct 23 j 12:26	5°M59'26	2°08'33
minimum elong	1006 Aug 09 j 21:48			minimum elong	1012 Oct 23 j 12:28	5° ™ 59'27	
max. Earth dist.	1006 Aug 10 j 03:32		10.32376 AU	max. Earth dist.	1012 Oct 23 j 08:21		10.94210 AU
morning rise	1006 Aug 27 j 13:28	23° Ω 59'39		morning rise	1012 Nov 09 j 03:34	7°M57'25	
	1006 Oct 24 j 10:12	0° m		retrograde	1013 Feb 16 j 13:25	14°M58'38	
retrograde	1006 Dec 06 j 19:02	1° m 39'51		opposition	1013 Apr 27 j 00:02	11°M41'13	2°30'31
	1007 Jan 20 j 02:25	30° R Ω		min. Earth dist.	1013 Apr 27 j 03:05	11° M 40'39	8.97537 AU
opposition	1007 Feb 11 j 17:12	28° Ω 16′50	1°56'03	direct	1013 Jul 07 j 06:05	8°M19'45	
min. Earth dist.	1007 Feb 11 j 13:18	28° Ω 17'37	8.38089 AU		1013 Oct 13 j 19:25	15°M	
direct	1007 Apr 21 j 19:21	24° Ω 48'51		evening set	1013 Oct 18 j 11:05	15°M32'06	
	1007 Jul 13 j 15:07	0° m					
evening set	1007 Aug 06 j 01:51	2° m/44'28		conjunction	1013 Nov 04 j 03:34	17° M 29'49	1°56'16
	-			minimum elong	1013 Nov 04 j 03:37	17°M29'50	1°56'15
conjunction		407 55100	1044140	_	-	170M 20127	11 00101 477
	1007 Aug 23 j 16:41	4° ™ 55'29	1°44'40	max. Earth dist.	1013 Nov 03 j 23:29	1/*116283/	11.00101 AU
minimum elong	1007 Aug 23 j 16:41 1007 Aug 23 j 16:38	4° 10/55'29 4° 10/55'29	1°44'40 1°44'40	max. Earth dist.	1013 Nov 03 j 23:29 1013 Nov 20 j 17:19	17°11628'37 19°11626'48	11.00101 AU
minimum elong max. Earth dist.		4° m 55'29					11.00101 AU

morning rise

1026 Apr 12 j 09:22

12° Y 37'08

1020 Feb 17 j 03:54

0°**≈**

retrograde	1026 Jul 28 j 10:48	20° Ƴ 46'45		conjunction	1032 Jun 21 i 02:39	4° © 43'12	-0°24'43
opposition	1026 Oct 05 j 06:40	17° Υ 18'08	-2°49'21	minimum elong	1032 Jun 21 j 02:41	4°9643'12	
min. Earth dist.	1026 Oct 05 j 05:57	17° Υ 18'16		max. Earth dist.	1032 Jun 21 j 08:39		10.04606 AU
direct	1026 Dec 10 j 23:56	13° Y '54'03	0.23023 110	morning rise	1032 Jul 09 j 06:51	7°903'56	10.01000110
evening set	1027 Mar 22 j 13:15	21° Υ 44'43		retrograde	1032 Oct 21 j 11:26	15° © 13'44	
evening sec	1027 Mai 22 j 15.15	21 (11.15		opposition	1032 Dec 27 j 01:26	11°9345'54	-0°10'10
conjunction	1027 Apr 09 j 01:21	23° Y ′58'49	-2°14'40	min. Earth dist.	1032 Dec 26 j 20:42	11°946'53	8.06960 AU
minimum elong	1027 Apr 09 j 01:23	23° Y '58'50		direct	1032 Mar 04 j 08:15	8°916'25	0.00700 AC
max. Earth dist.	1027 Apr 09 j 03:13		10.19084 AU	asc. node	1033 Mar 04 j 08:13	8°951'36	
	1027 Apr 09 j 03:13 1027 Apr 26 j 17:54	26° Υ 14'22	10.19004 AU	evening set	·	16° © 29'33	
morning rise	1027 May 28 j 14:45	0° 8		evening set	1033 Jun 17 j 23:18	10 292933	
		4° 8 30'11			1022 1-1 07:02-21	100670124	0°08'40
retrograde	1027 Aug 11 j 20:54		2042100	conjunction	1033 Jul 06 j 03:21	18°549'24	
opposition	1027 Oct 19 j 04:58	1°800'50		minimum elong	1033 Jul 06 j 03:20	18°549'24	0°08'40
min. Earth dist.	1027 Oct 19 j 03:04	1° 8 01'13	8.15042 AU	behind sun begin	1033 Jul 05 j 21:00	18°547'22	
	1027 Oct 31 j 20:55	30°RƳ		behind sun end	1033 Jul 06 j 09:41	18°951'25	
direct	1027 Dec 24 j 17:00	27° Y 35'34		max. Earth dist.	1033 Jul 06 j 09:20		10.09984 AU
	1028 Feb 14 j 17:30	0°8		morning rise	1033 Jul 24 j 05:31	21° © 08'36	
evening set	1028 Apr 04 j 22:24	5° 8 33'57		retrograde	1033 Nov 04 j 10:40	29° © 10'36	
				opposition	1034 Jan 10 j 00:46	25°5643'55	0°31'00
conjunction	1028 Apr 22 j 15:18	7° 8 50'36		min. Earth dist.	1034 Jan 09 j 19:47	25°©44'56	8.13564 AU
minimum elong	1028 Apr 22 j 15:20	. •		direct	1034 Mar 18 j 19:30	22° © 14'23	
max. Earth dist.	1028 Apr 22 j 18:38	7° 8 51'41	10.11161 AU		1034 Jun 29 j 13:49	$0^{\circ}\Omega$	
morning rise	1028 May 10 j 11:55	10° 8 08'29		evening set	1034 Jul 02 j 19:25	0° Ω 24'12	
	1028 Jun 21 j 16:52	15° 8					
retrograde	1028 Aug 25 j 10:46	18° 8 28'23		conjunction	1034 Jul 20 j 21:04	2° Ω 42'07	0°41'00
opposition	1028 Nov 01 j 07:06	14° 8 58'39	-2°27'15	minimum elong	1034 Jul 20 j 21:02	2° Ω 42'07	0°40'59
min. Earth dist.	1028 Nov 01 j 03:58	14° 8 59'17	8.08100 AU	max. Earth dist.	1034 Jul 21 j 03:01	2° Ω 44'01	10.17720 AU
	1028 Nov 01 j 00:30	15° ₹ ႘		morning rise	1034 Aug 07 j 19:41	4° Ω 59'02	
direct	1029 Jan 06 j 16:00	11° 8 32'13		retrograde	1034 Nov 18 j 03:30	12° Ω 52'16	
	1029 Mar 10 j 21:40	15° ႘		opposition	1035 Jan 23 j 19:22	9° Ω 26'50	1°09'35
evening set	1029 Apr 19 j 15:47	19° 8 37'20		min. Earth dist.	1035 Jan 23 j 14:11	9° Ω 27'53	8.22305 AU
8	r . j			direct	1035 Apr 02 j 03:15	5° Ω 57'34	
conjunction	1029 May 07 j 13:11	21° 8 56'10	-1°48'56	evening set	1035 Jul 17 j 08:15	14° Ω 02'24	
minimum elong	1029 May 07 j 13:15	21° 8 56'11		· · · · · · · · · · · · · · · · · · ·	1035 Jul 25 j 00:26	15° Ω	
max. Earth dist.	1029 May 07 j 17:46	_	10.05377 AU		1035 341 25 1 00.20	15 00	
morning rise	1029 May 07 j 17:40 1029 May 25 j 13:26	24° 8 15'56	10.033777110	conjunction	1035 Aug 04 j 06:11	16° Ω 17'45	1°10'28
morning risc	1029 Jul 15 j 19:51	0°II		minimum elong	1035 Aug 04 j 06:08	16°Ω17'45	
retrograde	1029 Sep 09 j 02:59	2° П 37'18		max. Earth dist.	1035 Aug 04 j 00:08		10.27 10.27309 AU
renograde	1029 Sep 09 j 02:39 1029 Nov 04 j 18:43	30°R 8		morning rise	• •	18° Ω 31'50	10.27309 AU
omnosition	,	29° 8 07'32	2902114	C	1035 Aug 22 j 00:05		
opposition	1029 Nov 15 j 11:43			retrograde	1035 Dec 01 j 12:15	26° Ω 15'53 22° Ω 51'49	1942125
min. Earth dist.	1029 Nov 15 j 07:36		8.03545 AU	opposition	1036 Feb 06 j 08:31		1°43'25
direct	1030 Jan 20 j 20:08	25° 8 40'03		min. Earth dist.	1036 Feb 06 j 03:53	22° £ 52'45	8.32630 AU
	1030 Apr 02 j 12:44	0°П		direct	1036 Apr 15 j 06:00	19° £ 23'05	
evening set	1030 May 04 j 15:12	3° Ⅱ 50'17		evening set	1036 Jul 30 j 11:59	27° Ω 21'37	
conjunction	1030 May 22 j 16:25	6° Ⅱ 10'41		conjunction	1036 Aug 17 j 05:14	29° Ω 34'01	1°35'32
minimum elong	1030 May 22 j 16:28	6° Ⅱ 10'42		minimum elong	1036 Aug 17 j 05:11	29° Ω 34'00	1°35'32
max. Earth dist.	1030 May 22 j 21:58		10.02218 AU	max. Earth dist.	1036 Aug 17 j 10:19		10.38170 AU
morning rise	1030 Jun 09 j 19:25	8° ∏ 31'41			1036 Aug 20 j 16:02	0°Щ	
retrograde	1030 Sep 23 j 18:18	16° ∏ 51'42		morning rise	1036 Sep 03 j 17:48	1° m 45'01	
opposition	1030 Nov 29 j 17:29	13° Ⅱ 22'15		retrograde	1036 Dec 13 j 12:55	9° ™ 19'59	
min. Earth dist.	1030 Nov 29 j 12:52		8.01773 AU	opposition	1037 Feb 18 j 16:11	5° m 57'18	2°10'56
direct	1031 Feb 04 j 05:43	9° ∏ 53'51		min. Earth dist.	1037 Feb 18 j 12:47	5° Mp 57′58	8.43942 AU
evening set	1031 May 19 j 18:04	18° Ⅲ 07'13		direct	1037 Apr 29 j 02:51	2° Mp 29′22	
				evening set	1037 Aug 13 j 05:19	10° M 20'38	
conjunction	1031 Jun 06 j 21:53	20° Ⅲ 28′22	-0°56'49				
minimum elong	1031 Jun 06 j 21:56	20° Ⅲ 28′23	0°56'49	conjunction	1037 Aug 30 j 17:24	12° m 29'59	1°55'08
max. Earth dist.	1031 Jun 07 j 03:51	20° Ⅱ 30′19	10.01954 AU	minimum elong	1037 Aug 30 j 17:22	12° ™ 29'58	1°55'08
morning rise	1031 Jun 25 j 02:21	22° Ⅱ 49'44		max. Earth dist.	1037 Aug 30 j 20:57	12°M 31'05	10.49707 AU
	1031 Sep 03 j 12:23	0ಂ ತಾ		morning rise	1037 Sep 17 j 00:39	14° m 37′52	
retrograde	1031 Oct 08 j 05:48	1° © 05'45		retrograde	1037 Dec 26 j 06:40	22° m 04'17	
-	1031 Nov 12 j 02:58	30°RⅡ		opposition	1038 Mar 03 j 18:07	18° m 42'55	2°31'10
opposition	1031 Dec 13 j 22:39	27° Ⅱ 36′58	-0°51'16	min. Earth dist.	1038 Mar 03 j 16:06	18° m 43'19	8.55641 AU
min. Earth dist.	1031 Dec 13 j 18:00	27° Ⅱ 37'56		direct	1038 May 12 j 16:21	15° m 16'01	
direct	1032 Feb 18 j 18:33	24° ∏ 07'53	-	evening set	1038 Aug 26 j 12:10	22° m 59'30	
	1032 May 14 j 15:37	0.ಪ		C	5 3	n · · · ·	
evening set	1032 Jun 02 j 21:51	2° © 22'13		conjunction	1038 Sep 12 j 19:12	25° m 05'54	2°08'41
<i>S</i>				<i>y</i>	·r j ->2		

minimum elong max. Earth dist.	1038 Sep 12 j 19:10 1038 Sep 12 j 20:44	25° m 05'54 25° m 06'23	2°08'41 10.61343 AU	conjunction minimum elong	1044 Nov 21 j 07:40 1044 Nov 21 j 07:43	5° х 25′26 5° х 25′27	1°28'22 1°28'22
morning rise	1038 Sep 29 j 21:34	27° m 10'52		max. Earth dist.	1044 Nov 21 j 03:05		11.06996 AU
C	1038 Oct 24 j 14:07	0∘ ⊽		morning rise	1044 Dec 07 j 20:50	7° ∡ ′21'33	
retrograde	1039 Jan 07 j 16:00	4° £ 29'31		retrograde	1045 Mar 18 j 01:02	14° √ 19'18	
opposition	1039 Mar 16 j 14:20	1° ≏ 09'21	2°43'42	opposition	1045 May 27 j 09:22	11° ∡ °02′10	1°34'44
min. Earth dist.	1039 Mar 16 j 13:21	1° ჲ 09'33	8.67150 AU	min. Earth dist.	1045 May 27 j 13:11	11° ₹ °01′28	9.07721 AU
	1039 Mar 31 j 20:15	30°R, Mp		direct	1045 Aug 06 j 12:54	7° ∡ ¹43'12	
direct	1039 May 25 j 23:51	27° m 43'39		evening set	1045 Nov 16 j 00:27	14° ∡ °44'49	
	1039 Jul 18 j 17:21	0∘ ⊽					
evening set	1039 Sep 08 j 08:40	5° ≏ 19'16		conjunction	1045 Dec 02 j 14:50	16° ∡ ¹41'12	1°06'02
		_		minimum elong	1045 Dec 02 j 14:52	16° ∡ ′41′13	1°06'03
conjunction	1039 Sep 25 j 11:12	7° Ω 22'59	2°15'58	max. Earth dist.	1045 Dec 02 j 09:57		11.07735 AU
minimum elong	1039 Sep 25 j 11:10	7° Ω 22'59	2°15'58	morning rise	1045 Dec 19 j 04:23	18° ⋌ '37'25	
max. Earth dist.	1039 Sep 25 j 11:10		10.72527 AU	retrograde	1046 Mar 29 j 21:40	25° ⋌ ³36'40	1005145
morning rise	1039 Oct 12 j 09:16	9° £ 25'21		opposition	1046 Jun 08 j 11:17	22° 🗷 19'08	1°05'45
retrograde	1040 Jan 19 j 20:20	16° Ω 37'16	20.4012.0	min. Earth dist.	1046 Jun 08 j 16:03	22° 🗷 18'15	9.07254 AU
opposition	1040 Mar 28 j 05:38	13° Ω 18'11	2°48'30	direct	1046 Aug 18 j 08:49	19° × 700'42	
min. Earth dist.	1040 Mar 28 j 05:06	13° £ 18'17	8.77933 AU	evening set	1046 Nov 27 j 07:31	26° ₹ 00'44	
direct	1040 Jun 07 j 00:54	9° £ 53'47		agnismation	1046 Dag 12 ; 21:51	270.75721	0941100
evening set	1040 Sep 19 j 19:30	17° ≏ 21'43		conjunction	1046 Dec 13 j 21:51 1046 Dec 13 j 21:52	27° 🗷 57'21	0°41'09 0°41'09
agnismation	1040 Oct 06 j 18:14	19° ≏ 23'06	2°17'04	minimum elong max. Earth dist.	1046 Dec 13 j 21:32 1046 Dec 13 j 15:22	27° 🗷 57'21	11.06115 AU
conjunction minimum elong	1040 Oct 06 j 18:14 1040 Oct 06 j 18:14	19 2 23 06 19° 2 23'06	2°17'04 2°17'04	morning rise	1046 Dec 30 j 12:25	27 x · 33 20 29° x · 54'04	11.00113 AU
max. Earth dist.	1040 Oct 06 j 17:46		10.82760 AU	morning rise	1046 Dec 30 j 12.23	29 メ ・34 04	
morning rise	1040 Oct 00 j 17:40 1040 Oct 23 j 12:42	21° £ 22'38	10.82700 AC	retrograde	1047 Apr 10 j 18:40	6° る 56'23	
retrograde	1040 Oct 23 j 12:42 1041 Jan 30 j 22:29	21 = 23 17 28° £ 29'40		opposition	1047 Apr 10 j 18:40 1047 Jun 20 j 14:12	3° る 38'11	0°34'07
opposition	1041 Apr 09 j 16:40	25° £ 11'28	2°45'57	min. Earth dist.	1047 Jun 20 j 20:09	3°る37'05	9.04419 AU
min. Earth dist.	1041 Apr 09 j 17:01	25° ⊆ 11'24	8.87534 AU	direct	1047 Aug 30 j 03:54	0°る19'59	7.04417 AO
direct	1041 Jun 19 j 17:31	21° Ω 48'24	0.07354710	evening set	1047 Dec 08 j 15:39	7°る20'01	
evening set	1041 Oct 01 j 21:58	29° Ω 09'07		evening set	1047 Dec 00 j 13.37	7 02001	
evening sec	1041 Oct 09 j 02:56	0°M		conjunction	1047 Dec 25 j 06:28	9° ට 17'16	0°14'32
	,			minimum elong	1047 Dec 25 j 06:28	9° ට 17'16	0°14'32
conjunction	1041 Oct 18 j 17:36	1°M08'38	2°12'19	behind sun begin	1047 Dec 25 j 03:13	9° ට 16'19	
minimum elong	1041 Oct 18 j 17:37	1°M08'39	2°12'19	behind sun end	1047 Dec 25 j 09:43	9° ට 18'13	
max. Earth dist.	1041 Oct 18 j 16:17	1°M08'15	10.91624 AU	max. Earth dist.	1047 Dec 24 j 23:07	9° ට 15'07	11.02131 AU
morning rise	1041 Nov 04 j 09:25	3°M07'06		morning rise	1048 Jan 10 j 22:26	11° る 14'52	
retrograde	1042 Feb 11 j 18:31	10°M09'11		retrograde	1048 Apr 21 j 21:39	18° る 21'54	
opposition	1042 Apr 22 j 00:02	6°M51'39	2°36'33	opposition	1048 Jul 01 j 19:17	15° る 02'46	0°00'52
min. Earth dist.	1042 Apr 22 j 02:01	6°M51'17	8.95579 AU	min. Earth dist.	1048 Jul 02 j 01:29	15° る 01'37	8.99263 AU
direct	1042 Jul 02 j 04:01	3°M29'50		desc. node	1048 Jul 11 j 12:25	14° る 19'58	
evening set	1042 Oct 13 j 17:22	10°M44'10		direct	1048 Sep 10 j 01:17	11° る 44'35	
				evening set	1048 Dec 19 j 02:29	18° පි 46'12	
conjunction	1042 Oct 30 j 10:34	12°M42'14	2°02'13				
minimum elong	1042 Oct 30 j 10:36	12°M42'15	2°02'12	conjunction	1049 Jan 04 j 18:19	20° る 44'28	
max. Earth dist.	1042 Oct 30 j 07:22		10.98783 AU	minimum elong	1049 Jan 04 j 18:18	20° る 44'27	0°13'01
morning rise	1042 Nov 16 j 00:48	14°M39'28		behind sun begin	1049 Jan 04 j 13:59	20°₹43'11	
	1042 Nov 18 j 23:51	15°M		behind sun end	1049 Jan 04 j 22:38	20°る45'44	10.05000 177
retrograde	1043 Feb 23 j 13:00	21°M38'39	2021101	max. Earth dist.	1049 Jan 04 j 11:34		10.95890 AU
opposition	1043 May 04 j 04:43	18°M21'32	2°21'01 9.01762 AU	morning rise	1049 Jan 21 j 11:55	22° 3 43'19	
min. Earth dist. direct	1043 May 04 j 08:06	18°M20'55	9.01/62 AU	retrograde	1049 May 04 j 05:58	29°る56'35 26°る36'17	0022152
evening set	1043 Jul 14 j 11:10 1043 Oct 25 j 07:11	15°M00'50 22°M09'45		opposition min. Earth dist.	1049 Jul 14 j 03:24 1049 Jul 14 j 08:50		-0 32 33 8.91978 AU
evening set	1043 Oct 23 j 07.11	22 IIG0943		direct	1049 Sep 21 j 22:34	23°る3316	6.91976 AU
conjunction	1043 Nov 10 j 22:42	24°M06'49	1°47'20	direct	1049 Dec 27 j 12:35	0° ≈	
minimum elong	1043 Nov 10 j 22:42 1043 Nov 10 j 22:45	24°M06'50	1°47'19	evening set	1049 Dec 30 j 18:04	0 ∞ 0°≈22'40	
max. Earth dist.	1043 Nov 10 j 18:12		11.03969 AU	evening see	10.5 200 30 1 10.0 1	0 10 22 10	
morning rise	1043 Nov 27 j 12:07	26°M03'17		conjunction	1050 Jan 16 j 11:10	2° ≈ 22'16	-0°40'17
<i>3</i>	1044 Jan 04 j 01:41	0° √		minimum elong	1050 Jan 16 j 11:08	2°≈22'16	
retrograde	1044 Mar 06 j 06:20	3° ₹ '01'00		max. Earth dist.	1050 Jan 16 j 04:39		10.87659 AU
-	1044 May 11 j 16:42	30°RM		morning rise	1050 Feb 02 j 06:43	4° ≈ 22'41	
opposition	1044 May 15 j 07:30	29°M44'01	2°00'08	retrograde	1050 May 16 j 20:49	11° ≈ 43'30	
min. Earth dist.	1044 May 15 j 11:14	29°M43'19	9.05858 AU	opposition	1050 Jul 26 j 15:23	8° ≈ 21'52	-1°05'54
direct	1044 Jul 25 j 13:18	26°M24'17		min. Earth dist.	1050 Jul 26 j 20:26	8° ≈ 20'55	8.82895 AU
	1044 Oct 03 j 01:09	0°⊀		direct	1050 Oct 03 j 22:46	5° ≈ 02'59	
evening set	1044 Nov 04 j 16:59	3° ∡ ¹28'55		evening set	1051 Jan 11 j 15:46	12° ≈ 12'22	

	1051 I 20: 10:20	1 400 01 212 0	1907121		1057 A 16: 11.14	10050100	2010140
conjunction	1051 Jan 28 j 10:20 1051 Jan 28 j 10:18	14°≈13'38 14°≈13'37		conjunction	1057 Apr 16 j 11:14	1° 8 52'22	
minimum elong max. Earth dist.	1051 Jan 28 j 03:40		1 06 21 10.77814 AU	minimum elong max. Earth dist.	1057 Apr 16 j 11:16 1057 Apr 16 j 13:00	_	10.12341 AU
max. Earth dist.	1051 Feb 03 j 19:20	14 ≈11 30 15°≈	10.77814 AU	morning rise	1057 May 04 j 06:15	4° 8 09'33	10.12341 AU
morning rise	1051 Feb 14 j 08:16	15 ~ 16° ≈ 15'56		retrograde	1057 Aug 19 j 08:19	12° 8 28'55	
retrograde	1051 May 29 j 18:30	23°≈45'21		opposition	1057 Oct 26 j 09:30	8° 8 58'41	-2°35'41
opposition	1051 Aug 08 j 08:22	20°≈22'15	-1°36'49	min. Earth dist.	1057 Oct 26 j 07:16	8° 8 59'08	8.08829 AU
min. Earth dist.	1051 Aug 08 j 13:11	20° ≈ 21'20	8.72420 AU	direct	1057 Dec 31 j 18:53	5° 8 32'07	
direct	1051 Oct 16 j 02:16	17° ≈ 02'37		evening set	1058 Apr 13 j 10:42	13° 8 35'18	
evening set	1052 Jan 23 j 20:43	24°≈17'58			1058 Apr 24 j 09:42	15° 8	
conjunction	1052 Feb 09 j 17:16	26° ≈ 21'09		conjunction	1058 May 01 j 06:03	15° 8 53'28	
minimum elong	1052 Feb 09 j 17:13	26° ≈ 21'09	1°30'00	minimum elong	1058 May 01 j 06:06	15° 8 53'29	
max. Earth dist.	1052 Feb 09 j 11:10		10.66788 AU	max. Earth dist.	1058 May 01 j 09:33	_	10.05629 AU
morning rise	1052 Feb 26 j 17:54	28°≈25'36		morning rise	1058 May 19 j 04:59	18° 8 12'46	
	1052 Mar 11 j 03:27	0° ₩ 6° ₩ 04'27		retrograde	1058 Sep 02 j 23:44	26° 8 34'45	2014125
retrograde opposition	1052 Jun 10 j 22:03	2° H 39'48	2004100	opposition min. Earth dist.	1058 Nov 09 j 13:42 1058 Nov 09 j 10:17	23° 8 04'20 23° 8 05'03	8.03338 AU
min. Earth dist.	1052 Aug 20 j 06:40 1052 Aug 20 j 10:56	2° X 3948 2° X 38'58	8.61010 AU	direct	1059 Jan 14 j 21:52	19° 8 36'42	8.03338 AU
iiiii. Latui dist.	1052 Aug 20 j 10:30 1052 Sep 29 j 07:26	2 / (3636	6.01010 AC	evening set	1059 Apr 28 j 07:52	27° 8 45'40	
direct	1052 Oct 27 j 12:37	29°≈19'13		evening sec	1059 May 15 j 14:06	0°II	
	1052 Nov 24 j 07:19	0° ∀					
evening set	1053 Feb 04 j 10:27	6°) 41'42		conjunction	1059 May 16 j 07:31	0° Ⅱ 05'42	-1°36'46
_	-			minimum elong	1059 May 16 j 07:35	0° Ⅱ 05'43	1°36'47
conjunction	1053 Feb 21 j 09:36	8°) 47′08	-1°50'02	max. Earth dist.	1059 May 16 j 12:51	0° Ⅱ 07'26	10.01507 AU
minimum elong	1053 Feb 21 j 09:33	8°){ 47'07	1°50'01	morning rise	1059 Jun 03 j 09:40	2° Ⅱ 26'31	
max. Earth dist.	1053 Feb 21 j 05:22		10.55057 AU	retrograde	1059 Sep 17 j 15:19	10° Ⅱ 48'17	
morning rise	1053 Mar 10 j 13:09	10° ¥ 53'56		opposition	1059 Nov 23 j 19:28	7° Ⅱ 18'07	
retrograde	1053 Jun 24 j 10:00	18°) 42′32		min. Earth dist.	1059 Nov 23 j 14:45	7° Ⅱ 19'05	8.00589 AU
opposition	1053 Sep 02 j 10:26	15°) (16′21		direct	1060 Jan 29 j 06:37	3° Ⅱ 49'36	
min. Earth dist.	1053 Sep 02 j 13:15	15° X 15'48 11° X 54'41	8.49167 AU	evening set	1060 May 12 j 09:53	12° Ⅱ 02'31	
direct evening set	1053 Nov 09 j 05:19 1054 Feb 17 j 09:47	11° X 34'41 19° X 25'12		conjunction	1060 May 30 j 12:52	14° Ⅱ 23'40	1910/10
evening set	10341100 17 1 09.47	19 1(2312		minimum elong	1060 May 30 j 12:55	14 H 23 40 14° H 23'41	
conjunction	1054 Mar 06 j 12:05	21° ¥ 33'05	-2°05'09	max. Earth dist.	1060 May 30 j 12:53		10.00258 AU
minimum elong	1054 Mar 06 j 12:03	21° X 33'05		morning rise	1060 Jun 17 j 17:01	16° I I45'12	10.00200110
max. Earth dist.	1054 Mar 06 j 09:49		10.43155 AU	retrograde	1060 Oct 01 j 04:40	25° Ⅱ 04'01	
morning rise	1054 Mar 23 j 18:53	23°) 42′27		opposition	1060 Dec 07 j 01:23	21° Ⅱ 34'29	-1°08'50
-	1054 May 24 j 05:42	0 ° Υ		min. Earth dist.	1060 Dec 06 j 19:25	21° Ⅱ 35'43	8.00779 AU
retrograde	1054 Jul 08 j 07:23	1° Y 40'38		direct	1061 Feb 11 j 18:21	18° Ⅱ 05'22	
	1054 Aug 23 j 02:41	30° ₹ ₩		evening set	1061 May 27 j 14:00	26° Ⅲ 20′08	
opposition	1054 Sep 15 j 20:11	28° ¥ 13′02					
min. Earth dist.	1054 Sep 15 j 21:11		8.37435 AU	conjunction	1061 Jun 14 j 18:46	28° Ⅱ 41'29	
direct	1054 Nov 22 j 02:50	24°) € 50'12		minimum elong	1061 Jun 14 j 18:48	28°II41'30	
. ,	1055 Feb 09 j 23:37	0°Υ		max. Earth dist.	1061 Jun 15 j 02:57		10.01973 AU
evening set	1055 Mar 02 j 19:10	2° Y 29′15		morning rise	1061 Jun 24 j 20:01	0°ഇ 1° ഇ 02'47	
conjunction	1055 Mar 20 j 01:06	4° Ƴ 39'45	-2°14'13	retrograde	1061 Jul 02 j 23:16 1061 Oct 15 j 14:10	9°9516'16	
minimum elong	1055 Mar 20 j 01:05	4° Υ 39'45		opposition	1061 Dec 21 j 05:47	5°947'44	-0°28'34
max. Earth dist.	1055 Mar 20 j 00:31		10.31665 AU	min. Earth dist.	1061 Dec 20 j 23:17	5°949'05	8.03917 AU
morning rise	1055 Apr 06 j 11:39	6° Y 51'46		direct	1062 Feb 26 j 06:59	2°9518'18	
retrograde	1055 Jul 22 j 10:52	14° Y 58'44		evening set	1062 Jun 11 j 17:16	10°532'43	
opposition	1055 Sep 29 j 11:45	11° Y 29'56	-2°49'07				
min. Earth dist.	1055 Sep 29 j 11:12	11° Y ′30′03	8.26408 AU	conjunction	1062 Jun 29 j 22:01	12° © 53'20	-0°06'11
direct	1055 Dec 05 j 08:22	8° Y 05'51		minimum elong	1062 Jun 29 j 22:02	12° © 53'20	0°06'12
evening set	1056 Mar 15 j 14:58	15° Ƴ 53'34		behind sun begin	1062 Jun 29 j 15:05	12° © 51'06	
	40.44			behind sun end	1062 Jun 30 j 05:00	12°955'34	40.0
conjunction	1056 Apr 02 j 01:04	18° ℃ 06'45		max. Earth dist.	1062 Jun 30 j 06:32		10.06559 AU
minimum elong	1056 Apr 02 j 01:05	18° ℃ 06'46		morning rise	1062 Jul 18 j 01:13	15°913'27	
max. Earth dist.	1056 Apr 02 j 01:35	18°'γ'06'55 20° Υ 21'26	10.21197 AU	asc. node	1062 Sep 07 j 13:36	20°S55'34 23°S19'41	
morning rise retrograde	1056 Apr 19 j 15:48 1056 Aug 04 j 19:30	20°°° 21°26 28°° 35'40		retrograde opposition	1062 Oct 29 j 18:21 1063 Jan 04 j 07:18	23°919'41 19°952'25	0°12'59
opposition	1056 Oct 12 j 08:25	26 γ 33 40 25° γ 05'57	-2°47'16	min. Earth dist.	1063 Jan 04 j 07:18 1063 Jan 04 j 01:00	19 952 23 19°953'43	8.09818 AU
min. Earth dist.	1056 Oct 12 j 06:58	25° Υ 06'15	8.16684 AU	direct	1063 Mar 12 j 18:28	19 933 43 16°922'57	5.07010 AU
direct	1056 Dec 17 j 22:03	21° Υ 40'36		evening set	1063 Jun 26 j 16:45	24°934'55	
evening set	1057 Mar 29 j 20:33	29° Y 36'33		3			
-	1057 Apr 01 j 22:19	0°B		conjunction	1063 Jul 14 j 19:45	26°953'54	0°26'58

	10/2 1 1 14:10 44	260552154	0026150		10(0.0 + 01:01.5)	1.40.0.20151	2017111
minimum elong	1063 Jul 14 j 19:44		0°26'58	conjunction	1069 Oct 01 j 21:56	14° £ 30'51	
max. Earth dist.	1063 Jul 15 j 03:43		10.13715 AU	minimum elong	1069 Oct 01 j 21:55	14° £ 30'51	2°17'11
morning rise	1063 Aug 01 j 20:04	29° © 12'00		max. Earth dist.	1069 Oct 01 j 20:32		10.78824 AU
	1063 Aug 08 j 05:59	0° Ω		morning rise	1069 Oct 18 j 17:53	16° △ 31'57	
retrograde	1063 Nov 12 j 15:42	7° Ω 09'41		retrograde	1070 Jan 26 j 05:00	23° Ω 40'50	
opposition	1064 Jan 18 j 04:42	3° Ω 43'51	0°53'03	opposition	1070 Apr 04 j 18:26	20° Ω 22'36	2°47'44
min. Earth dist.	1064 Jan 17 j 23:05	3° Ω 45′00	8.18092 AU	min. Earth dist.	1070 Apr 04 j 20:13	20° ≏ 22'15	8.83691 AU
direct	1064 Mar 26 j 04:46	0° Ω 14'39		direct	1070 Jun 14 j 15:32	16° ≏ 59'12	
evening set	1064 Jul 10 j 09:57	8° Ω 22'18		evening set	1070 Sep 27 j 04:15	24° ≏ 23'19	
	104111 00:00 05	100 000154	0055150		1050 0 . 14:01.04	2 < 0 2 2 2 2 2 2	201.415.4
conjunction	1064 Jul 28 j 09:35	10° Ω 38'54	0°57'58	conjunction	1070 Oct 14 j 01:04	26° ₽ 23'39	
minimum elong	1064 Jul 28 j 09:32	10° Ω 38'53	0°57'57	minimum elong	1070 Oct 14 j 01:04	26° Ω 23'39	
max. Earth dist.	1064 Jul 28 j 16:20		10.22970 AU	max. Earth dist.	1070 Oct 13 j 21:49		10.87880 AU
morning rise	1064 Aug 15 j 05:42	12° Ω 54'20		morning rise	1070 Oct 30 j 18:08	28° ≙ 22'54	
	1064 Sep 01 j 13:11	15° Ω			1070 Nov 13 j 21:52	0°M	
retrograde	1064 Nov 25 j 03:32	20° Ω 42'46		retrograde	1071 Feb 07 j 02:22	5°M27'03	
opposition	1065 Jan 30 j 20:59	17° Ω 18′26	1°29'14	opposition	1071 Apr 17 j 03:36	2°M09'25	
min. Earth dist.	1065 Jan 30 j 16:07	17° Ω 19′25	8.28209 AU	min. Earth dist.	1071 Apr 17 j 06:09	2°M08'56	8.91972 AU
	1065 Mar 03 j 06:30	15°R Ω			1071 May 18 j 09:30	30°Ŗ 죠	
direct	1065 Apr 09 j 11:34	13° Ω 49'47		direct	1071 Jun 27 j 06:52	28° ≏ 47'07	
	1065 May 16 j 11:08	15° Ω			1071 Aug 05 j 10:53	0° M	
evening set	1065 Jul 24 j 18:31	21° Ω 51'31		evening set	1071 Oct 09 j 03:05	6° ™ 04'38	
conjunction	1065 Aug 11 j 13:45	24° Ω 05'14		conjunction	1071 Oct 25 j 21:20	8°M03'23	2°07'01
minimum elong	1065 Aug 11 j 13:42	24° Ω 05'13	1°25'08	minimum elong	1071 Oct 25 j 21:21	8°M03'23	2°07'01
max. Earth dist.	1065 Aug 11 j 19:04		10.33749 AU	max. Earth dist.	1071 Oct 25 j 17:27		10.95319 AU
morning rise	1065 Aug 29 j 04:50	26° Ω 17'37		morning rise	1071 Nov 11 j 12:15	10°M01'12	
	1065 Sep 30 j 10:34	0° m y			1071 Dec 30 j 22:41	15°M	
retrograde	1065 Dec 08 j 07:17	3° TD 56'43		retrograde	1072 Feb 18 j 23:27	17° M 01'58	
opposition	1066 Feb 13 j 07:36	0° Mg 33′50	1°59'41		1072 Apr 11 j 02:47	15°RM₊	
min. Earth dist.	1066 Feb 13 j 03:08	0° Mp 34′44	8.39541 AU	opposition	1072 Apr 28 j 09:50	13° M 44'40	2°28'14
	1066 Feb 20 j 10:16	30° R Ω		min. Earth dist.	1072 Apr 28 j 12:53	13° M 44'06	8.98480 AU
direct	1066 Apr 23 j 12:29	27° Ω 05′59		direct	1072 Jul 08 j 16:35	10°M23'24	
	1066 Jun 22 j 15:11	0° m y			1072 Sep 26 j 09:21	15° ™	
evening set	1066 Aug 07 j 16:54	5° Mp 00'35		evening set	1072 Oct 19 j 19:28	17° ™ 35'04	
	1066 A 25:07:15	70 m 1 111 4	1047114	· · · · · · · · · · · · ·	1072 Nov. 05 : 11.52	100 m 20141	1954106
conjunction	1066 Aug 25 j 07:15	7° Mp 11'14		conjunction	1072 Nov 05 j 11:53	19°M32'41	1°54'06
minimum elong	1066 Aug 25 j 07:12		1°47'14	minimum elong	1072 Nov 05 j 11:55	19°M32'42	1°54'06
max. Earth dist.	1066 Aug 25 j 11:28	-	10.45390 AU	max. Earth dist.	1072 Nov 05 j 07:39		11.00878 AU
morning rise	1066 Sep 11 j 16:58	9° m 20'27		morning rise	1072 Nov 22 j 01:30	21°M29'34	
retrograde	1066 Dec 21 j 04:45	16° To 50'34		retrograde	1073 Mar 01 j 18:13	28°M28'19	
opposition	1067 Feb 26 j 12:16	13° Tp 29'03	2°23'10	opposition	1073 May 10 j 13:52	25°M11'05	2°09'32
min. Earth dist.	1067 Feb 26 j 08:40	13° To 29'45	8.51380 AU	min. Earth dist.	1073 May 10 j 18:10	25°M10'17	9.03002 AU
direct	1067 May 07 j 05:33	10° Mp 02'10		direct	1073 Jul 20 j 19:34	21°M50'40	
evening set	1067 Aug 21 j 04:49	17° m 49'02		evening set	1073 Oct 31 j 07:16	28°M57'37	
	10/70 07:14:10	100% 7010	2002120		1073 Nov 09 j 05:18	0° ⊼	
conjunction	1067 Sep 07 j 14:10	19° Mp 56'40	2°03'28		1072 Nr. 17 12 22 22	00 75421	1026147
minimum elong	1067 Sep 07 j 14:08	19° Mp 56'39	2°03'28	conjunction	1073 Nov 16 j 22:23	0° ₹ 54'31	1°36'47
max. Earth dist.	1067 Sep 07 j 17:03		10.57176 AU	minimum elong	1073 Nov 16 j 22:25	0° ₹ 54'32	1°36'47
morning rise	1067 Sep 24 j 18:35	22° m 02'49		max. Earth dist.	1073 Nov 16 j 16:40		11.04376 AU
retrograde	1068 Jan 02 j 18:46	29° Tp 24'43		morning rise	1073 Dec 03 j 11:39	2° ₹ 50'56	
opposition	1068 Mar 10 j 11:11	26° TD 04'29	2°39'02	retrograde	1074 Mar 13 j 11:07	9° ∡ 149'05	
min. Earth dist.	1068 Mar 10 j 09:16	26° To 04'51	8.63025 AU	opposition	1074 May 22 j 16:17	6° ₹ 31'41	1°45'56
direct	1068 May 19 j 15:23	22° m 38'43		min. Earth dist.	1074 May 22 j 21:50	6° ∡ ³30'39	9.05394 AU
	1068 Aug 30 j 18:32	0∘ ত		direct	1074 Aug 01 j 20:32	3° ∡ 11'55 −	
evening set	1068 Sep 02 j 06:15	0° £ 17'45		evening set	1074 Nov 11 j 15:57	10° ∡ 15'25	
agniumation	1060 Com 10: 10:40	20 0 22124	2012127	aoniumatiam	1074 Nov. 20 : 06.24	120.71202	1015147
conjunction minimum elong	1068 Sep 19 j 10:49 1068 Sep 19 j 10:47	2° £ 22'34 2° £ 22'34	2°13'27 2°13'27	conjunction minimum elong	1074 Nov 28 j 06:24	12° х 12′02 12° х 12′03	1°15'47 1°15'47
Č				C	1074 Nov 28 j 06:27		
max. Earth dist.	1068 Sep 19 j 11:53		10.68471 AU	max. Earth dist.	1074 Nov 27 j 23:37		11.05702 AU
morning rise	1068 Oct 06 j 10:32	4° Ω 26'00		morning rise	1074 Dec 14 j 19:59	14° ⋌ 08'23	
retrograde	1069 Jan 14 j 02:22	11° Ω 40'48	2047110	retrograde	1075 Mar 25 j 06:06	21° × 707'30	1010100
opposition	1069 Mar 23 j 05:08	8° Ω 21'41	2°47'10	opposition	1075 Jun 03 j 18:24	17° 🗷 49'40	1°18'20
min. Earth dist.	1069 Mar 23 j 05:24	8° Ω 21'38	8.73928 AU	min. Earth dist.	1075 Jun 04 j 00:10	17° 🗷 48'36	9.05577 AU
direct	1069 Jun 01 j 18:56	4° £ 57'06		direct	1075 Aug 13 j 19:12	14° ∡ 730′25	
evening set	1069 Sep 14 j 21:39	12° ≏ 28'28		evening set	1075 Nov 22 j 23:08	21° ≯ 31'48	

conjunction	1075 Dec 09 i 13:35	23° × ⁷ 28'31	0°51'51	opposition	1081 Aug 15 j 06:28	27° ≈ 47'38	1052120
minimum elong	1075 Dec 09 j 13:37	23° × 28'32	0°51'51	min. Earth dist.	1081 Aug 15 j 08:58	27°≈47'09	8.65278 AU
max. Earth dist.	1075 Dec 09 j 13.37		11.04805 AU		1081 Oct 22 j 17:30	27 ≈47 09 24°≈27'27	8.03278 AU
	,		11.04805 AU	direct	-		
morning rise	1075 Dec 26 j 03:48	25° ₹ 25'14			1082 Jan 15 j 09:18	0°) {	
	1076 Feb 09 j 01:20	0°る		evening set	1082 Jan 30 j 13:41	1°) 47′08	
retrograde	1076 Apr 05 j 03:19	2° る 26'53			1000 7 1 16:11 11	201/51140	10.4044.0
	1076 Jun 03 j 01:59	30°₹ ⋌ 7		conjunction	1082 Feb 16 j 11:41	3° ¥ 51'40	
opposition	1076 Jun 14 j 21:08	29° 🗷 08'22	0°47'39	minimum elong	1082 Feb 16 j 11:38	3°) ₹51'39	
min. Earth dist.	1076 Jun 15 j 02:16	29° ₹ 07'25	9.03545 AU	max. Earth dist.	1082 Feb 16 j 08:21		10.59696 AU
direct	1076 Aug 24 j 15:32	25° ∡ ′49'29		morning rise	1082 Mar 05 j 13:51	5° ¥ 57'30	
	1076 Nov 07 j 08:29	0°る		retrograde	1082 Jun 19 j 05:24	13°) 42′14	
evening set	1076 Dec 03 j 06:50	2° る 50'12		opposition	1082 Aug 28 j 08:14	10°) 16'46	
				min. Earth dist.	1082 Aug 28 j 09:54		8.54114 AU
conjunction	1076 Dec 19 j 21:40	4°る47'24	0°25'48	direct	1082 Nov 04 j 06:36	6° ¥ 55'45	
minimum elong	1076 Dec 19 j 21:41	4° ♂ 47'25	0°25'49	evening set	1083 Feb 12 j 09:16	14° ∺ 22'59	
max. Earth dist.	1076 Dec 19 j 15:37		11.01716 AU				
morning rise	1077 Jan 05 j 13:00	6° る 44'50		conjunction	1083 Mar 01 j 09:58	16° ¥ 29'48	-1°59'29
retrograde	1077 Apr 17 j 06:01	13° る 50'31		minimum elong	1083 Mar 01 j 09:56	16°) 29'47	1°59'28
opposition	1077 Jun 27 j 01:28	10° ප 31'11	0°14'53	max. Earth dist.	1083 Mar 01 j 07:26	16° ¥ 29'01	10.48377 AU
min. Earth dist.	1077 Jun 27 j 06:38	10° පි 30'13	8.99372 AU	morning rise	1083 Mar 18 j 15:23	18° ¥ 38′04	
direct	1077 Sep 05 j 11:33	7° る 12'26		retrograde	1083 Jul 02 j 23:10	26° ∺ 32′20	
desc. node	1077 Dec 11 j 04:00	13° る 49'30		opposition	1083 Sep 10 j 16:01	23°) €05'37	-2°36'08
evening set	1077 Dec 14 j 16:42	14° る 14'01		min. Earth dist.	1083 Sep 10 j 17:00	23°) €05'25	8.42847 AU
•	v			direct	1083 Nov 17 j 02:04	19°) 43′38	
conjunction	1077 Dec 31 j 08:10	16° ප 12'04	-0°01'31	evening set	1084 Feb 25 j 14:39	27° ¥ 19′02	
minimum elong	1077 Dec 31 j 08:10	16° る 12'04	0°01'32		v		
behind sun begin	1077 Dec 31 j 01:11	16° ප 10'00		conjunction	1084 Mar 13 j 18:48	29° ¥ 28′20	-2°11'08
behind sun end	1077 Dec 31 j 15:09	16° る 14'07		minimum elong	1084 Mar 13 j 18:46	29°) 28'20	
max. Earth dist.	1077 Dec 31 j 01:28		10.96538 AU	max. Earth dist.	1084 Mar 13 j 18:00		10.37229 AU
morning rise	1078 Jan 17 j 01:09	18° る 10'35			1084 Mar 17 j 23:01	0°Υ	
retrograde	1078 Apr 29 j 10:53	25° ට 21'46		morning rise	1084 Mar 31 j 03:50	1° Υ 39'10	
opposition	1078 Jul 09 j 08:32	22° る 01'25	-0°18'51	retrograde	1084 Jul 15 j 23:02	9° Υ '42'23	
min. Earth dist.	1078 Jul 09 j 14:05	22°る00'23	8.93196 AU	opposition	1084 Sep 23 j 05:28	6°Υ14'32	-2°46'55
direct	1078 Sep 17 j 07:16	18°る42'36	0.75170710	min. Earth dist.	1084 Sep 23 j 05:19	6°Υ14'33	8.32024 AU
evening set	1078 Dec 26 j 06:20	25° ප් 46'36		direct	1084 Nov 29 j 05:52	2° Υ 51'27	0.32024 AO
evening set	1076 Dec 20 J 00.20	23 04030		evening set	1085 Mar 10 j 06:21	10° Υ 35'16	
conjunction	1079 Jan 11 j 22:47	27° る 45'48	0°20'01	evening set	1003 Wai 10 J 00.21	10 1 33 10	
minimum elong	1079 Jan 11 j 22:46	27° る 45'48	0°29'02	conjunction	1085 Mar 27 j 14:34	12° Ƴ 47'10	2016/00
max. Earth dist.	1079 Jan 11 j 16:02		10.89444 AU	minimum elong	1085 Mar 27 j 14:34	12 γ 47 10 12° γ 47'11	
	1079 Jan 28 j 17:41	27 84347 29° 8 45'44	10.69444 AU	max. Earth dist.	,		10.26804 AU
morning rise	v	29 3 43 44 0° ≈			1085 Mar 27 j 15:52	12° 15° 15° 15°	10.20804 AU
	1079 Jan 30 j 18:27			morning rise	1085 Apr 14 j 03:27	23°Υ11'28	
retrograde	1079 May 11 j 21:43	7°≈03'50	0052122	retrograde	1085 Jul 30 j 04:53	19° Y 42'40	2040154
opposition	1079 Jul 21 j 19:12	3°≈42'19		opposition	1085 Oct 06 j 23:59	19° γ 42'40 19° γ 43'00	
min. Earth dist.	1079 Jul 22 j 00:24	3°≈41'21	8.85238 AU	min. Earth dist.	1085 Oct 06 j 22:23	19° γ 43'00 16° γ 18'27	8.22184 AU
direct	1079 Sep 29 j 07:43	0°≈23'14		direct	1085 Dec 12 j 17:02		
evening set	1080 Jan 07 j 01:22	7° ≈ 31'07		evening set	1086 Mar 24 j 07:50	24° Ƴ 10′24	
	1000 Y 22:10 20	00 21140	0055145		1006 4 10:20 22	2600024154	2012142
conjunction	1080 Jan 23 j 19:20	9°≈31'49		conjunction	1086 Apr 10 j 20:33	26° Y 24'54	
minimum elong	1080 Jan 23 j 19:18	9° ≈ 31'48	0°55'45	minimum elong	1086 Apr 10 j 20:35	26° Y 24'55	
max. Earth dist.	1080 Jan 23 j 13:59		10.80697 AU	max. Earth dist.	1086 Apr 10 j 23:44		10.17631 AU
morning rise	1080 Feb 09 j 16:18	11° ≈ 33'27		morning rise	1086 Apr 28 j 13:30	28° Y 40'48	
_	1080 Mar 11 j 20:16	15° ≈		_	1086 May 09 j 04:48	0°8	
retrograde	1080 May 23 j 17:30	18° ≈ 59'40		retrograde	1086 Aug 13 j 16:29	6° 8 57'31	
opposition	1080 Aug 02 j 10:16	15° ≈ 36'51		opposition	1086 Oct 20 j 23:08	3° 8 28'03	
min. Earth dist.	1080 Aug 02 j 14:08		8.75807 AU	min. Earth dist.	1086 Oct 20 j 20:06	3° 8 28'41	8.13812 AU
	1080 Aug 10 j 13:57	15° R ≈		direct	1086 Dec 26 j 10:06	0° 8 02'39	
direct	1080 Oct 10 j 10:50	12° ≈ 17'19		evening set	1087 Apr 07 j 18:08	8° 8 02'01	
	1080 Dec 06 j 22:19	15° ≈					
evening set	1081 Jan 18 j 03:20	19° ≈ 30'28		conjunction	1087 Apr 25 j 11:32	10° 8 18'59	
				minimum elong	1087 Apr 25 j 11:35	10° 8 19'00	
conjunction	1081 Feb 03 j 23:10	21° ≈ 32'56	-1°20'33	max. Earth dist.	1087 Apr 25 j 15:42	10° 8 20'20	10.10167 AU
minimum elong	1081 Feb 03 j 23:08	21° ≈ 32'56	1°20'33	morning rise	1087 May 13 j 08:35	12° 8 37'09	
max. Earth dist.	1081 Feb 03 j 19:13	21° ≈ 31'44	10.70639 AU		1087 Jun 01 j 17:47	15° 8	
morning rise	1081 Feb 20 j 22:32	23° ≈ 36'33		retrograde	1087 Aug 28 j 07:48	20° 8 57'29	
	1081 Apr 28 j 09:56	0° ∀		opposition	1087 Nov 04 j 01:51	17° 8 27'42	-2°24'06
retrograde	1081 Jun 05 j 19:35	1°) 11'47		min. Earth dist.	1087 Nov 03 j 22:07	17° 8 28'28	8.07340 AU
	1081 Jul 14 j 20:00	30° R ≈			1087 Dec 07 j 13:33	15° ₹ 8	

direct	1000 Ian 00;00:12	14° 8 01'09		minimum alana	1002 Iul 22 i 16:21	5° Ω 08'42	0°45'20
direct	1088 Jan 09 j 09:13	15° 8		minimum elong max. Earth dist.	1093 Jul 22 j 16:31 1093 Jul 22 j 23:17		10.19042 AU
evening set	1088 Feb 10 j 23:04 1088 Apr 21 j 12:22	22° 8 06'58		morning rise	1093 Jul 22 j 23.17 1093 Aug 09 j 14:32	$7^{\circ}\Omega 25'16$	10.19042 AU
evening set	1000 Apr 21 J 12.22	22 000 38		morning rise	1093 Nov 02 j 05:12	15° Ω	
conjunction	1088 May 09 j 10:11	24° 8 26'01	1045155	retrograde	1093 Nov 19 j 20:24	15° Ω 17'22	
minimum elong	1088 May 09 j 10:15	24° 8 26'02		retrograde	1093 Nov 19 j 20.24 1093 Dec 07 j 13:06	15 δ (1722	
max. Earth dist.	• •		1 43 33 10.04852 AU	onnosition	,	13 κοι 11°Ω52'10	1°14'39
	1088 May 09 j 14:54	24 8 2733	10.04632 AU	opposition min. Earth dist.	1094 Jan 25 j 12:31	$11^{\circ} \Omega 52^{\circ} 10$	8.23737 AU
morning rise	1088 May 27 j 10:52				1094 Jan 25 j 07:08		8.23/3/ AU
	1088 Jun 23 j 02:37	0°П		direct	1094 Apr 03 j 21:55	8° Ω 23'03	
retrograde	1088 Sep 11 j 00:05	5° Ⅱ 07'21	1055155		1094 Jul 07 j 04:48	15° Ω	
opposition	1088 Nov 17 j 06:44	1° Ⅱ 37'38		evening set	1094 Jul 19 j 02:59	16° Ω 27'02	
min. Earth dist.	1088 Nov 17 j 02:40		8.03238 AU				
	1088 Dec 07 j 19:47	30° ₹ 8		conjunction	1094 Aug 06 j 00:23	18° Ω 42'00	1°14'15
direct	1089 Jan 22 j 15:25	28° 8 10'03		minimum elong	1094 Aug 06 j 00:20	18° Ω 41'59	1°14'14
	1089 Mar 08 j 17:17	0°II		max. Earth dist.	1094 Aug 06 j 06:35	18° Ω 43'58	10.28831 AU
evening set	1089 May 06 j 12:22	6° Ⅱ 20'45		morning rise	1094 Aug 23 j 17:35	20° Ω 55'41	
				retrograde	1094 Dec 03 j 03:53	28° Ω 38'33	
conjunction	1089 May 24 j 13:51	8° Ⅱ 41'16	-1°21'41	opposition	1095 Feb 08 j 00:57	25° Ω 14'43	1°47'38
minimum elong	1089 May 24 j 13:55	8° Ⅱ 41'17	1°21'41	min. Earth dist.	1095 Feb 07 j 20:44	25° Ω 15'34	8.34229 AU
max. Earth dist.	1089 May 24 j 19:05		10.02133 AU	direct	1095 Apr 17 j 23:45	21° Ω 46′08	
morning rise	1089 Jun 11 j 17:12	11° Ⅱ 02'22		evening set	1095 Aug 02 j 05:26	29° Ω 43'40	
retrograde	1089 Sep 25 j 13:50	19° Ⅲ 22′00			1095 Aug 04 j 10:36	0° m y	
opposition	1089 Dec 01 j 12:33	15° Ⅲ 52'42	-1°24'18				
min. Earth dist.	1089 Dec 01 j 08:13	15° Ⅲ 53'36	8.01891 AU	conjunction	1095 Aug 19 j 22:02	1° m 55'40	1°38'35
direct	1090 Feb 06 j 02:12	12° Ⅲ 24'16		minimum elong	1095 Aug 19 j 21:59	1° m 55'39	1°38'35
evening set	1090 May 21 j 15:24	20° Ⅲ 37'48		max. Earth dist.	1095 Aug 20 j 02:43	1° m 57'08	10.39814 AU
Č	, ,			morning rise	1095 Sep 06 j 10:01	4° m) 06'15	
conjunction	1090 Jun 08 j 19:20	22° I I58'58	-0°52'23	retrograde	1095 Dec 16 j 03:56	11° m) 40'02	
minimum elong	1090 Jun 08 j 19:22	22° I 58'58		opposition	1096 Feb 21 j 07:46	8° m) 17'33	2°14'09
max. Earth dist.	1090 Jun 09 j 01:05		10.02281 AU	min. Earth dist.	1096 Feb 21 j 04:56	8° mp 18'06	8.45623 AU
morning rise	1090 Jun 26 j 23:54	25° ∏ 20'16	10.02201710	direct	1096 Apr 30 j 19:18	4° Mp 49'46	0.43023710
morning risc	1090 Aug 05 j 23:43	0°95		evening set	1096 Aug 14 j 21:30	12° m) 39'56	
retrograde	1090 Oct 10 j 00:00	3° © 35'40		evening set	1090 Aug 14 j 21.30	12 11/3930	
•			0045121	aaniumatian	1006 Cap 01:00:55	1 40 mm 40152	1957120
opposition	1090 Dec 15 j 17:29	0°507'03		conjunction	1096 Sep 01 j 08:55	14° M) 48'53	1°57'20
min. Earth dist.	1090 Dec 15 j 12:46		8.03457 AU	minimum elong	1096 Sep 01 j 08:52	14° Mp 48'52	1°57'20
1.	1090 Dec 17 j 03:36	30°RⅡ		max. Earth dist.	1096 Sep 01 j 11:34		10.51387 AU
direct	1091 Feb 20 j 15:00	26° Ⅲ 38'01		morning rise	1096 Sep 18 j 15:39	16° Mp 56'22	
	1091 Apr 24 j 12:32	0°€		retrograde	1096 Dec 27 j 19:07	24° m 21'38	
evening set	1091 Jun 05 j 18:54	4° © 52'12		opposition	1097 Mar 05 j 08:47	21°M)00'26	2°33'17
				min. Earth dist.	1097 Mar 05 j 06:51	21° Mp 00'48	8.57312 AU
conjunction	1091 Jun 23 j 23:42	7° © 13'04		direct	1097 May 14 j 08:57	17° m 33'40	
minimum elong	1091 Jun 23 j 23:43	7° ॐ 13'04		evening set	1097 Aug 28 j 02:53	25° Mp 16'01	
max. Earth dist.	1091 Jun 24 j 05:58	7° ॐ 15′06	10.05318 AU				
morning rise	1091 Jul 12 j 03:46	9° © 33'39		conjunction	1097 Sep 14 j 09:23	27° m 22'01	2°09'59
retrograde	1091 Oct 24 j 05:23	17° © 42'35		minimum elong	1097 Sep 14 j 09:21	27° m 22'01	2°10'00
opposition	1091 Dec 29 j 19:50	14° © 14'57	-0°04'16	max. Earth dist.	1097 Sep 14 j 10:35	27° m 22'23	10.62975 AU
min. Earth dist.	1091 Dec 29 j 14:33	14° © 16'02	8.07847 AU	morning rise	1097 Oct 01 j 11:15	29° m 26'38	
asc. node	1092 Feb 06 j 19:45	11° © 28'50			1097 Oct 06 j 03:23	0० ত	
direct	1092 Mar 06 j 03:33	10° © 45'34		retrograde	1098 Jan 09 j 04:06	6° £ 44'14	
evening set	1092 Jun 19 j 19:50	18° © 58'16		opposition	1098 Mar 18 j 04:12	3° ≏ 24'11	2°44'41
				min. Earth dist.	1098 Mar 18 j 02:46	3° ₽ 24'28	8.68732 AU
conjunction	1092 Jul 07 j 23:45	21°©17'54	0°13'20		1098 May 22 j 09:42	30°R, Mp	
minimum elong	1092 Jul 07 j 23:45	21°©17'54	0°13'19	direct	1098 May 27 j 16:10	29° m 58'37	
behind sun begin	1092 Jul 07 j 19:41	21°5916'36			1098 Jun 01 j 21:39	0∘ <u>⊽</u>	
behind sun end	1092 Jul 08 j 03:48	21° © 19'12		evening set	1098 Sep 09 j 21:55	7° ჲ 33'02	
max. Earth dist.	1092 Jul 08 j 06:24		10.11035 AU			. —55 02	
morning rise	1092 Jul 26 j 01:32	23°936'51		conjunction	1098 Sep 27 j 00:05	9° ჲ 36'25	2°16'22
	1092 Sep 24 j 15:26	0°Ω		minimum elong	1098 Sep 27 j 00:04	9° ≏ 36'25	
retrograde	1092 Sep 24 j 15:20 1092 Nov 06 j 05:00	1° Ω 37'49		max. Earth dist.	1098 Sep 27 j 00:04 1098 Sep 27 j 00:32		10.74037 AU
renograue	1092 Nov 06 j 03:00 1092 Dec 19 j 10:44	1 ∂ (3 / 49 30°Rூ		morning rise	1098 Sep 27 j 00.32 1098 Oct 13 j 21:40	9 2 36 34 11° 2 38'28	10.77037 AU
opposition	1093 Jan 11 j 18:33	28°©11'20	0°36'39	retrograde	1098 Oct 13 j 21:40 1099 Jan 21 j 09:21	11 ≥ 38 28 18° ♀ 49'28	
	•			-	·		2010126
min. Earth dist.	1093 Jan 11 j 12:57	28°©12'28	8.14758 AU	opposition	1099 Mar 30 j 18:43	15° Ω 30'26	2°48'26
direct	1093 Mar 20 j 14:21	24°941'55		min. Earth dist.	1099 Mar 30 j 18:10	15° £ 30'32	8.79357 AU
	1093 Jun 10 j 20:04	0°Ω		direct	1099 Jun 09 j 14:23	12° Ω 06'10	
evening set	1093 Jul 04 j 15:14	2° Ω 51'06		evening set	1099 Sep 22 j 07:37	19° ≏ 32'56	
conjunction	1093 Jul 22 j 16:33	5° Ω 08'42	0°45'21	conjunction	1099 Oct 09 j 06:01	21° £ 34′04	2°16'37

minimum elong	1099 Oct 09 j 06:01	21° ≏ 34'04	2°16'37
max. Earth dist.	1099 Oct 09 j 05:38	21° ≏ 33'57	10.84081 AU
morning rise	1099 Oct 26 j 00:07	23° ჲ 33'59	
	1100 Jan 05 j 14:06	0° M .	
retrograde	1100 Feb 02 j 08:49	0° M ₃39'33	
	1100 Mar 01 j 13:17	30° ŖΩ	
opposition	1100 Apr 11 j 05:00	27° ≏ 21'23	2°44'52
min. Earth dist.	1100 Apr 11 j 06:07	27° ≏ 21'11	8.88744 AU
direct	1100 Jun 21 j 05:41	23° ≏ 58'24	
	1100 Sep 21 j 23:48	0° M .	
evening set	1100 Oct 03 j 09:05	1° M ₊18′08	
conjunction	1100 Oct 20 j 04:21	3° M 17′25	2°11'05
minimum elong	1100 Oct 20 j 04:22	3° M ₊17'25	2°11'05
max. Earth dist.	1100 Oct 20 j 02:09	3° M ₊16'46	10.92711 AU
morning rise	1100 Nov 05 j 20:03	5° ™ 15'42	
retrograde	1101 Feb 13 j 04:51	12° M ₊17'09	
opposition	1101 Apr 23 j 11:52	8°M59'38	2°34'34
min. Earth dist.	1101 Apr 23 j 14:30	8° ™ 59'09	8.96535 AU
direct	1101 Jul 03 j 17:05	5°M37′52	
evening set	1101 Oct 15 j 03:28	12°M51'20	
conjunction	1101 Oct 31 j 20:27	14° M 49'15	2°00'16
minimum elong	1101 Oct 31 j 20:29	14° M 49'16	2°00'16
max. Earth dist.	1101 Oct 31 j 16:33	14°M48'06	10.99602 AU
	1101 Nov 02 j 08:46	15° ™	
morning rise	1101 Nov 17 j 10:41	16°M46'21	